

GREENWOOD, SC 29649 PARCEL ID 6836-796-391

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DELEGATED DESIGN

THE FOLLOWING ITEMS ARE SHOWN OR INDICATED ON THE DRAWINGS & SPECIFICATIONS BUT ARE NOT CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL DESIGNS & PERMITTING IN COOPERATION WITH THE

1. SPRINKLER'S SYSTEM: PROVIDE ALL DESIGN AND CALCULATIONS REQUIRED FOR COMPLETE SPRINKLER SYSTEM PERMIT & INSTALLATION. DESIGN SHALL INCLUDE SPRINKLER LAYOUT, DRY PIPE SYSTEM FOR PORTE COCHERE, STAND PIPES AND FIRE PUMP. FIRE SPRINKLER SPECIFICATION SHEET (FSSS) & HYDRANT FLOW TEST WILL BE PROVIDED BY ARCHITECT.

- 2. FIRE ALARM SYSTEM: FINAL DESIGN & PERMITTING WILL BE PROVIDED BY FIRE ALARM VENDOR. DESIGN GUIDELINES ARE AS SHOWN ON ELECTRICAL DRAWINGS.
- 3. SWIMMING POOL: POOL SIZE LOCATION & GENERAL LAYOUT ARE AS PROVIDED ON ARCHITECTURAL DRAWINGS. POOL IS TO BE SALT WATER DESIGN. POOL CONTRACTOR SHALL PROVIDE ALL REQUIRED EQUIPMENT, DESIGN, AND DOCUMENTS REQUIRED FOR PERMITTING & INSULATION. POOL DESIGN WILL INCORPORATE POOL EQUIPMENT/POOL STORAGE BUILDING PROVIDED IN ARCHITECTURAL PLANS.
- 4. ELEVATOR: CONTRACTOR SHALL PROVIDE ALL DESIGN & EQUIPMENT REQUIRED FOR PERMIT AND BASIS OF DESIGN TKE ENDURA MACHINE ROOMLESS (MRL) HYDROLIC ELEVATORS (2500 LB, 3500 LB).



Address:	Greenwood SC				
Proposed Use	: R-1 Hotel				
Owner or Auth	norized Agent:				Phone #
Owned By:		City/County	Private	☐ Stat	e
Code Enforce	ment Jurisdiction:	City Greenwood	_ County		
LEAD DES	SIGN PROFESSIONA	L: COR3	Design, LLC)	
DESIGNER	FIRM	NAME	LICENSE	PHONE #	E-MAIL
Architectural	COR3 Design, LLC.	Ralph. M. Coleman		864.672.8509	mcoleman@cor3design.com
Civil	Gray Engineering	Shane Griffith		864.297.3027	sgriffith@grayengineering.com
Electrical	Matrix Engineering, INC	Robbie McDade		864.583.6274	rmcdade@matrixei.com
Fire Alarm	TBD				<u>-</u>
Plumbing	Le Blanc Welch	Michael Dennis		864.271.6535	michaeld@leblancwelch.com
Mechanical	Le Blanc Welch	Michael Dennis		864.271.6535	michaeld@leblancwelch.com
Sprinkler/ Standpipe	TBD	_ 		<u></u>	<u>-</u>
Structural	Taylor & Viola Eng.	James Tate		828.328.6331	jtate@taylorviola.com
Other					_

2021 International Plumbing Code 2021 International Mechanical Code

2020 National Electrical Code 2009 International Energy Conservation Code ■ New Construction ☐ Renovation (Existing Bldg.) ☐ Upfit ☐ Alteration BUILDING DATA IBC □ III-B □ IV ■ V-A □ V-B Mixed Construction:

BUILDING CODE SUMMARY

Sprinklers: ☐ No ■ Yes ■ NFPA 13 ☐ NFPA 13R ☐ NFPA 13D Standpipes: ☐ No ■ Yes Type: ■ I ☐ II ■ Wet ☐ Dry Fire District: ■ No □ Yes Building Height: <u>56'-4"</u> <u>4</u> Number of Stories □ Unlimited per Mezzanine: ■ No □ Yes High Rise: ■ No □ Yes Central Reference Sheet # (if provided)

High Rise:	No ☐ Yes C	central Referen	ce Sneet # (If p	provided)	-		
Gross Building	Area (sq. ft.):		REN0/				REN0/
FLOOR	EXISTING	NEW	UPFIT	FLOOR	EXISTING	NEW	UPFIT
Ground		14,372					
Second		14,564					
Third		14,564					
Fourth		14,564					
TOTAL		58,064		TOTAL			
ALLOWABL	E AREA						

□ F-1

☐ H-4

☐ H-5

☐ Mercantile
☐ Residential
■ R-1 ☐ Storage ☐ S-1 ☐ S-2 ☐ Utility and Miscellaneous
☐ Parking Garage Secondary Occupancy: B, A2, A3 (1st Floor Only) Special Occupancy: ☐ 510.2 ☐ 510.3 ☐ 510.4 ☐ 510.5 ☐ 510.6 ☐ 510.7 ☐ 510.8 ☐ 510.9 Mixed Occupancy: ☐ No ■ Yes Separation: 0Hr. Exception: 1st Floor Only ■ Non-Separated Mixed Occupancy (508.3)

The required type of construction for the building shall be determined by applying the height and area limitations for each of the applicable occupancies to the entire building. The most restrictive type of construction, so determined, shall apply to the entire building. ☐ Separated Mixed Occupancy (508.4) - See below for area calculations

For each story, the area of the occupancy shall be such that the sum of the ratios of the actual

floor area of each use divided by the allowable floor area for each use shall not exceed 1.

STORY NO.	DESCRIPTION AND USE	(A) BLDG. AREA PER STORY (ACTUAL)	(B) TABLE 506.2 ⁶ NS	(C) TABLE 506.2 S1	(D) TABLE 506.2 SM	(E) FRONT INCREASE	(F) MAXIMUM BUILDING AREA ⁵
1	R1/A2/A3/B	14,372	11,500	NA	34,500	NA	34,500
2	R1	14,564	12,000	NA	36,000	NA	36,000
3	R1	14,564	12,000	NA	36,000	NA	36,000

4 R1 14,564 12,000 NA 36,000 NA 36,000

¹ Total allowabale area increase per 506.1 are computed thus: a. A_a= A_t + [N_s + I_f]

Primary Occupancy:

Assembly

☐ High-Hazard
☐ H-1 ☐ Institutional I-3 Use Condition

² Open space area increases from Section 506.3.3 & 506.3.3.1 ³ Maximum Building Area = total number of stories in the building X E but not greater that 3 X E.

ALLOWABLE HEIGHT			
	ALLOWABLE (TABLE 504.3 & 504.4)	SHOWN ON PLANS	CODE REFERENCE
Type of Construction	Type VA	Type VA	
Building Hgt. in Feet	Feet 60 (S)	Feet 49	504.3 & 504.4
Building Hgt. in Stories	Stories 4 (S)	Stories 4	504.3 & 504.4

FIRE PROTECTION REQUI	REMENTS (VA - 1 HR PROTECTED)
Life Safety Plan Sheet # if provided	

Life Safety Plan Sheet #, if provided __A-002 & A-003

BUILDING ELEMENT	FIRE		RATING	DETAIL#	DESIGN#	DESIGN#	DESIGN
	SEPARATION DISTANCE (FEET)	REQ'D (SEP)	PROVIDED PROTECTED REDUCTION)	AND SHEET#	FOR RATED ASSEMBLY	FOR RATED PENETRATIONS	FOR RATED JOINTS
Structural Frame, including columns, girders, trusses	Х	1HR	1HR	Х	Х	Х	Х
Bearing Walls	X	0	N.R.	Х	X	X	Х
Exterior	X	0	N.R.	Х	X	X	Х
North	>30'	0	1HR	Х	U311	X	Х
East	>30'	0	1HR	Х	U311	X	Х
West	>30'	0	1HR	Х	U311	X	Х
South	>30'	0	1HR	Х	U311	X	Х
Interior	X	1HR	PROTETCED	Х	U305	X	Х
Nonbearing walls and Partitions	X	0	N.R.	х	Х	x	Х
Exterior	Х	0	N.R.	Х	Х	Х	Х
North	Х	0	N.R.	Х	Х	Х	Х
East	Х	0	N.R.	Х	Х	X	Х
West	X	0	N.R.	X	X	X	Х
South	Х	0	N.R.	Х	Х	X	Х
Interior	X	0	N.R.	X	X	X	Х
Floor Construction including supporting beams and joists	X	0	1HR	1HR	A011	UL L516	х
Roof Construction including supporting beams and joists	X	0	1HR	1HR	A010	UL P522	Х
Shafts - Exit	Х	2HR		A006	U906	Х	Х
Shafts - Other	Х	2HR		A006	U438	Х	Х
Corridor Separation	X	0.5		A008	U311	Х	Х
Occupancy Separation	Х	1HR	N/A	A008	U311	Х	Х
Party/Fire Wall Separation	Х	Х	N/A	Х	Х	Х	Х
Smoke Barrier Separation	Х	Х	N/A	Х	Х	Х	Х
Tenant Separation	Х	Х	N/A	Х	Х	Х	Х
Fire Area	X	Х	N/A	Х	Х	Х	Х

¹ Penatration to be installed as permitted by IBC Table 721.1 (2) LIFE SAFETY SYSTEM REQUIREMENTS □ No ■ Yes N.C. = Non Combustible □ No ■ Yes N.R. = Not Required Fire Alarm: □ No ■ Yes N/A = Not Applicable

Smoke Detection Systems: ☐ No ■ Yes

□ No ■ Yes Panic Hardware: EXIT REQUIREMENTS

PACE DESIGNATION NUMBER OF EXITS EGRESS (SECTION									
·			TRAVEL DISTA	NCE	ARRANGEMENT MEANS OF EGRESS (SECTION 1007)				
	REQUIRED		,			ACTUAL DISTANCE			
		ON PLANS				SHOWN ON			
			(TABLE 1017.2)			PLANS			
rst Floor	2	6	250'	115'-7"	73'-8"	208'-9"			
econd Floor	2	2	250'	107'-1"	73'-8"	208'-9"			
nird Floor	2	2	250'	107'-1"	73'-8"	208'-9"			
ourth Floor	2	2	250'	107'-1"	73'-8"	208'-9"			
			· ·						

¹ Corridor Dead Ends (Section 1020.5(² Single Exits (Table 1006.2.1)

³ Common Path of Travel (Section 1006.2.1) 75'-0" ALLOWED; EXIT WIDTH

USE GROUP	(a)	(b)		(0	c)	EXIT WIDTH (in) 2,3,4,5,6							
OR SPACE DESCRIPTION	AREA ¹ sq. ft.	AREA ¹ PER OCCUPANT	OCCUPANT LOAD	PER OC	S WIDTH CUPANT n 1005) ⁷	(Sectio	ED WIDTH n 1005) o) x c		_ WIDTH ON PLANS				
		(Table 1004.1.2)		STAIR	LEVEL	STAIR	LEVEL	STAIR	LEVEL				
First(A-2,A-3,R-1,B)	14,372	sq. ft. per	People	0.3	0.2								
A-2	1,131	15 sq. ft. per	76 People	0.3	0.2	22.8	15.2						
A-3	913	50 sq. ft. per	18 People	0.3	0.2	5.4	3.6						
R-1	7,606	200 sq. ft. per	38 People	0.3	0.2	11.4	7.6	NA	212"				
В	2,092	150 sq. ft. per	14 People	0.3	0.2	4.2	2.8						
Second Floor	14,564	200 sq. ft. per	73 People	0.3	0.2	21.9	14.6	88"	64"				
Third Floor	14,564	200 sq. ft. per	73 People	0.3	0.2	21.9	14.6	88"	64"				
Fourth Floor	14,564	200 sq. ft. per	73 People	0.3	0.2	21.9	14.6	88"	64"				

PLUMBING FIXTURE REQUIREMENTS (IBC CHAPTER 29)

. 20111211		O. ((_	. COII (EIVII		(01	0	,							
LEVEL	OCCU	PANCY	W.C.	W.	.C.	LAV	LA	١V	EWC	EWC		SERVICE	SHOWER/		
LLVLL	TYPE	LOAD	REQUIRED	М	F	REQUIRED	M	F	REQUIRED	STD. HC		SINKS	TUB		
	R1	-	N/A	1 PER	UNIT	N/A	1 PER	UNIT	N/A	N.	/A	N/A	1 PER UNIT		
4-4-51	A2	76	1/75	0.51	0.51	1/200	0.19	0.19	1/500	.1	5		N/A		
1st Floor	A3	18	1/65	.14	.14 1/200		0.09	0.09	1/500	.036		1	N/A		
	В	14	1/25	.28	.28	1/40	1/40 0.175		1/500	.028			N/A		
	тот	AL REQUI	RED	0.9	0.9	_	0.46	0.46	_	- 0.214		1			
	тот	AL PROVI	DED	1	1	_	1	1	-	1 1		1 1		1	_
2nd Floor	R1	1	1 PE	R UNIT		1 PE	R UNIT		N/A	4	•	N/A	1 PER UNIT		
3rd Floor	R1	1	1 PE	R UNIT		1 PEF	R UNIT		N/A	4		N/A	1 PER UNI		
4th Floor	R1	1	1 PE	R UNIT	Ţ	1 PEF	R UNIT		N/A	4		N/A	1 PER UNIT		



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Greenville, SC 29601

Consultants: STRUCTURAL Taylor and Viola Structural Engineers PO Box 2616

Hickory, NC 28603 828.328.6331 PLUMBING

LWI Consulting Engineers 870 Cleveland St, STE 1D Greenville, SC 29601 864.271.6535 MECHANICAL

LWI Consulting Engineers 870 Cleveland St, STE 1D Greenville, SC 29601 864.271.6535

Matrix Engineering, INC 912 S Pine Street Spartanburg, SC 29302 864.583.6274

> HOME 2 SUITES 475 HOSPITALITY BLVD, GREENWOOD, SC 29649

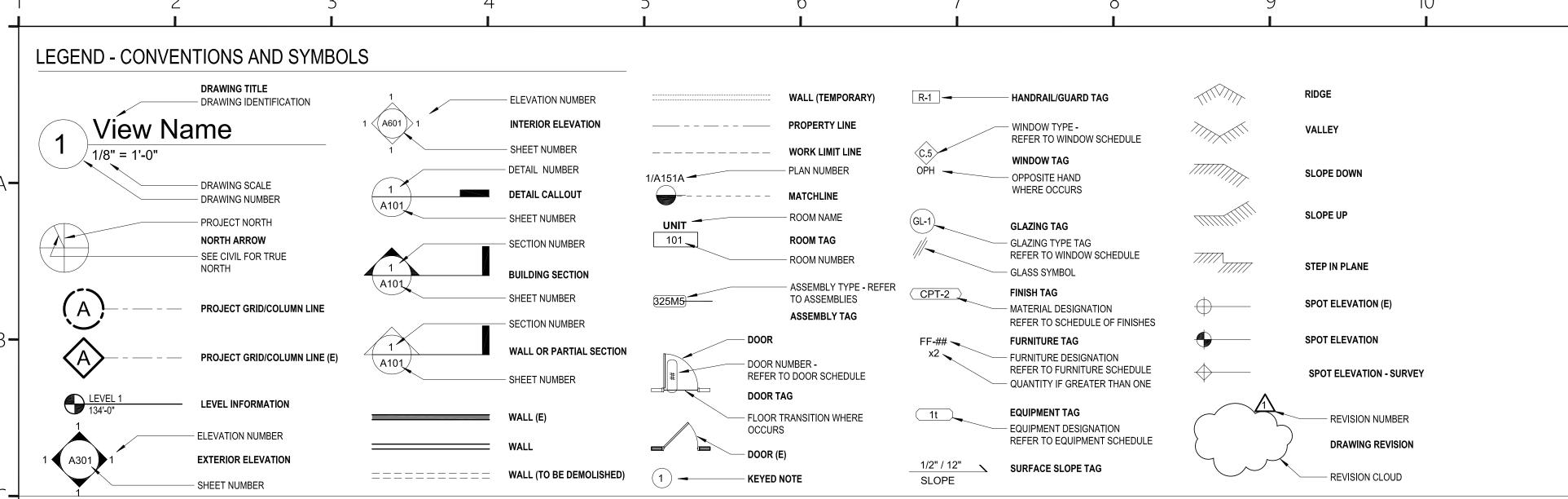


DESIGN GREENVILLE, SC

10.16.2024 Issue For Permit A 03.20.2025 100% Issue For Hilton

Project Number : 23112 Phase : CD

COVER SHEET & CODE SUMMARY



VERTICAL ROOM CHART

	х	(01	x03	x05	x07	x09	x11	x13	x15	x17	x19	x21	x23	x25	x27	x29	x02	x06	x08	x10	x12	x14	x16	x18	x20	x22	x24	x26	x28	x30
	1 9	ST	QQ	QQ	QQ	QQ	QQ	ST	KB	Lobby/Hkp	ST	ST	ST	ST	ST	ST	ST	AKB	ST	QQ	QQ	QQ	QQ							
3	3 9	ST	QQ	QQ	QQ	QQ	QQ	ST	KB	Lobby/Hkp	ST	ST	ST	ST	ST	ST	ST	АКВ	ST*	QQ	QQ	QQ	QQ							
2	2 AC	QQ*	QQ*	QQ	QQ	QQ	QQ	ST	KB	Lobby/Hkp	ST	ST	ST	ST	ST	ST	ST	AKB*	ST*	QQ	QQ	QQ	QQ							
	L		Pub	lic and	BOH Ar	eas		ST*	ST*	ST	ST	ST	ST	ST	ST	KB			Public	and BC)H Area	S			AKB*	ST*	QQ	QQ	QQ	QQ

ST = King Studio AST = King Studio - Accesible AKB = King One Bedroom - Accessible KB = King One Bedroom QQ = Queen Queen Studio AQQ = Queen Queen Studio - Accessible * = Adjoining Room

DISTRIBUTION OF THE ACCESSIBLE ROOMS TO INCLUDE OPTIONS FOR PREMIUM VIEWS WHEN PREMIUM VIEWS ARE AVAILABLE AT A SITE

ROOM SIZES

1 CON OILLO	
KING STUDIO:	12' X 29'
KING STUDIO - ACCESSIBLE:	16'-1" X 35'-0"
KING ONE BEDROOM	24'-8" X 29'-0"
KING ONE BEDROOM - ACCESSIBLE	24'-7" X 23'-9"
QUEEN/QUEEN STUDIO:	12' X 35'
QUEEN/QUEEN STUDIO - ACCESSIBLE:	16'-1" X 35'-0"
QUEEN STUDIO:	12' X 27'-6"
QUEEN STUDIO - ACCESSIBLE:	16'-1" X 27'-6"
QUEEN ONE BEDROOM	24'-9" X 27'-6"
QUEEN ONE BEDROOM - ACCESSIBLE:	24'-9" X 22'-1"

BUILDING AREA STATISTICS

AREA: 99 ROOM	UNIT	SF	TOTAL SF
GROSS AREA:			
GROUND LEVEL	1	14,372	14,372
UPPER LEVELS	3	14,564	43,692
TOTAL GROSS AREA			58,064
GUEST ROOMS:			
KING STUDIO	54	348	18,792
KING ONE BEDROOM	4	542	2,156
QUEEN QUEEN STUDIO	28	420	11,760
KING STUDIO - CONNECTING	5	348	1,740
QUEEN QUEEN STUDIO - CONNECTING	3	420	1,260
QUEEN QUEEN STUDIO - ACCESSIBLE KING ONE BEDROOM - ACCESSIBLE	1 4	563	563
SUBTOTAL GUEST ROOM	99	573	2,292 38,563
GUEST ROOM SUPPORT:			·
GROUND LEVEL CORRIDOR	1	645	645
UPPER LEVEL CORRIDOR	3	1,140	3,420
MECHANICAL ROOM	1	192	192
ELECTRICAL ROOM	1	153	153
ENGINEER'S OFFICE	1	116	116
HOUSEKEEPING ICE	3	291 58	873 174
STAIR #1 (GROUND LEVEL)	1	149	149
STAIR #1 (UPPER LEVEL)	3	149	447
STAIR #2 (GROUND LEVEL)	1	143	143
STAIR #2 (UPPER LEVEL)	3	143	429
ELEVATOR	4	136	544
ELEVATOR LOBBY SUBTOTAL GUEST ROOM SUPPORT	3	198	594 7,879
			1,813
PUBLIC SPACE:	1	7.0	7.0
ENTRY VESTIBULE GATHERING ROOM	1	76 1.131	76 1,131
SIDE ENTRY	1	132	1,131
BREAKFAST	1	246	246
SERVERY	1	80	80
GUEST LAUNDRY	1	114	114
WOMEN'S RESTROOM	1	51	51
MEN'S RESTROOM	1	51	51
PUBLIC CIRCULATION	1	662	662
MARKET SUBTOTAL PUBLIC SPACE	1	98	98 2,641
			2,041
PUBLIC SUPPORT: FRONT DESK	1	200	200
MANAGER'S OFFICE	1	98	98
CLOSET	1	6	6
SALES OFFICE	1	111	111
STORAGE	1	46	46
EMPLOYEE WORK STATION PBX ROOM	1	146 89	146 89
FOOD PREP	1	297	297
MECHANICAL ROOM 1	1	25	25
MECHANICAL ROOM 2	1	42	42
LAUNDRY	1	545	545
DRYER ROOM	1	60	60
EMPLOYEE BREAK ROOM	1	153	153
FIRE PUMP POOL EQUIPMENT	1	135 57	135 57
POOL STORAGE	1	13	13
POOL MECHANICAL	1	28	28
ELEVATOR VESTIBULE	1	160	160
SUBTOTAL PUBLIC SUPPORT:			2,211
RECREATIONAL FACILITIES:			
POOL RESTROOM	1	67	67
STORAGE	1	80	80
FITNESS	1	757	757

SUBTOTAL PUBLIC SUPPORT:

WALL SQUARE FOOTAGE

TOTAL FLOOR AREA

TOTAL USEABLE SQUARE FOOTAGE

NOTE: ALL INTERIOR AREAS ARE CALCULATED TO FACE OF INTERIOR FINISH (DRYWALL).

ACCESSIBLE ROOM MATRIX

GUESTROOM WITH MOBILITY FEATURE

ROOM TYPE	COUNT	COUNT	REMARKS
KING ONE BEDROOM-ACCESSIBLE W/ ROLL-IN SHOWER	2	2	ROOMS 120, 220
KING ONE BEDROOM-ACCESSIBLE W/ ACCESSIBLE TUB	2	2	ROOMS 320, 420
QUEEN QUEEN W/ ACCESSIBLE TUB	3	1	ROOM 201
TOTAL 5 ACCESSIBLE ROOM - 1W/ COMMUNICAT	ION FEATU	5 RE (ROOM 1	120)

REQUIRED PROVIDED

GUESTROOM WITH COMMUNICATION FEATURE REQUIRED PROVIDED

	REQUIRED	PROVIDED	
ROOM TYPE	COUNT	COUNT	REMARKS
C.F. KING STUDIO		2	ROOMS 319, 419
C.F. KING STUDIO-CONNECTING	7	5	ROOMS 115, 213, 222, 322, 413
C.F. KING STUDIO ACCESSIBLE			
C.F. KING ONE BEDROOM	- 2	1	ROOM 129
C.F. KING ONE BEDROOM - ACCESSIBLE	2	1	ROOM 120
C.F. QUEEN QUEEN STUDIO		1	ROOM 207
C.F. QUEEN QUEEN STUDIO - ACCESSIBLE	2		
C.F. QUEEN QUEEN STUDIO - CONNECTING		1	ROOM 203
	Т		
TOTAL	11	11	

· C.F. DENOTES ROOMS THAT HAVE COMMUNICATING FEATURES. ONE (1) COMMUNICATION FEATURE ROOM MUST ALSO BE ACCESSIBLE, BUT NO MORE THAN 10% OF ACCESSIBLE ROOMS THAT COUNT TOWARDS THE REQUIRED C.F. TOTAL ROOM

GUESTROOM COUNT BREAK DOWN

	GROUND				
	FLOOR	2ND FLOOR	3RD FLOOR	4TH FLOOR	TOTAL
KING STUDIO	6	15	16	17	52
KING ONE BEDROOM	1	1	1	1	4
QUEEN QUEEN STUDIO	4	8	8	8	28
KING STUDIO - ACCESSIBLE	0	0	0	0	0
QUEEN QUEEN - ACCESSIBLE	0	1	0	0	1
KING ONE BEDROOM - ACCESSIBLE	1	1	1	1	4
KING STUDIO - CONNECTING	3	2	1	1	7
QUEEN QUEEN STUDIO - CONNECTING	0	1	1	1	3
TOTAL	15	28	28	28	99

GENERAL NOTES

- A. THESE DRAWINGS ARE PREPARED FOR THE PURPOSES OF DESIGN INTENT ONLY. THESE DRAWINGS ARE NOT TO BE USED FOR CONSTRUCTION PURPOSES, AS ACTUAL CONDITIONS MAY VARY FROM THOSE SHOWN ON THESE DRAWINGS DUE TO CONSTRUCTION TECHNIQUES AND METHODS.
- B. DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS ARE THE ONLY ACCEPTABLE MEANS
- C. ALL DIMENSIONS ARE TO FINISH FACE OF WALL BOARD AND/OR INDICATED MATERIAL
- D. PROVIDE WALL BOARD TRIM AT ALL EXPOSED EDGES AND CORNERS OF GYPSUM WALLBOARD CONSTRUCTION. J-BEAD OR OTHER NON-DRYWALL COMPOUND TRIM PIECES PROHIBITED (U.N.O.)
- E. IT IS THE INTENTION OF THE KEY NOTES LOCATED ON THE VARIOUS SHEET(S) WITHIN THIS DRAWING SET TO IDENTIFY CONSTRUCTION ELEMENTS, NOT NECESSARILY DESCRIBE ENTIRE ASSEMBLIES OR PROCESSES. THE INSTALLATION OF SAID ELEMENT SHOULD INCLUDE ALL ASSOCIATED CONSTRUCTION NECESSARY TO ACHIEVE INSTALLATION AND OPERATION (USE) OF SAID ITEM. FOR EXAMPLE, THE INSTALLATION OF CERAMIC TILE SHALL INCLUDE (BUT BE NOT LIMITED TO) THE SURFACE PREPARATION MASTIC, GROUT, EDGE STRIPS, SEALING, CLEANING, ETC., IN ADDITION, IF THE PLUMBER INSTALLS A LAVATORY, IT MEANS HE/SHE SHALL PREPARE SURFACE(S), SET LAVATORY, SEAL AROUND BOWL, PROVIDE FAUCET, CONNECT TO PLUMBING AS NECESSARY TO ACHIEVE AN AESTHETICALLY PLEASING, ACCESSIBLE (WHERE INDICATED), OPERATIONAL LAVATORY UPON COMPLETION OF THE PROJECT F. ALL ELEVATIONS ARE BASED ON 0.00' REFERENCING A GRADE LEVEL OF 0.00' EXCEPT FOR
- G. DIMENSIONS SHOWN ARE FOR REFERENCE AND ARE TO COMMUNICATE CRITICAL AREAS

ELEVATIONS THAT REFERENCE A.F.F (ABOVE FINISHED FLOOR) OR OTHER SPECIFIC

- FOR DESIGN INTENT. FINAL DRAWINGS MAY VARY BASED ON CONSTRUCTION PRACTICES, LOCAL CODE REQUIREMENTS OR SPECIFIC SITE REQUIREMENTS.
- H. REFERENCE DIMENSIONS ARE PROVIDED FOR GENERAL REFERENCE ONLY. ACTUAL DIMENSION MAY VARY BASED ON CONSTRUCTION METHOD.

PROJECT ACCESSIBILITY NOTES

- A. THESE PLANS HAVE BEEN DESIGNED IN COMPLIANCE WITH THE 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN. ARCHITECT OF RECORD MUST NOTE THAT ADDITIONAL ACCESSIBILITY REQUIREMENTS MAY ALSO BE REQUIRED BY STATE OR LOCAL CODES. THESE PLANS HAVE NOT BEEN DESIGNED TO INCORPORATE ANY OF THE MORE STRINGENT REQUIREMENTS OF STATE OR LOCAL ACCESSIBILITY CODES OR STANDARDS AND THE PLANS MUST BE MODIFIED TO MEET ANY SUCH CODES OR STANDARDS. THE TERM "ACCESSIBLE" WILL BE USED THROUGHOUT THESE PLANS TO REFER TO THE 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN WHICH ARE MANDATED FOR PLACES OF PUBLIC ACCOMMODATION BY TITLE III REGULATIONS OF THE ADA AT 28 CFR PART 36, SUBPART D; AND MUST FOLLOW THE 2004 ADAAG AT 36 CFT PART 1191, APPENDICES B AND D. THE OWNER AND ARCHITECT OF RECORD ULTIMATELY ARE RESPONSIBLE FOR ADA COMPLIANCE AND MUST ENSURE THAT THE CONSTRUCTION DOCUMENTS MEET OR EXCEED THE ADA AND ANY STATE OR LOCAL ACCESSIBILITY CODES THAT ARE MORE STRINGENT. OWNER MUST ALSO ENSURE THAT THE FACILITY IS CONSTRUCTED AND MAINTAINED IN COMPLIANCE WITH THE ADA STANDARDS.
- B. THESE PLANS IDENTIFY ACCESSIBLE MINIMUM, MAXIMUM AND DIMENSIONAL RANGES. ARCHITECTS ARE STRONGLY ENCOURAGED TO SPECIFY DIMENSIONS THAT ARE BELOW THE MAXIMUM, ABOVE THE MINIMUM OR IN THE MIDDLE OF RANGES TO ACCOUNT FOR DEVIATIONS THAT MAY OCCUR DURING THE CONSTRUCTION PROCESS.
- C. ADDITIONAL INFORMATION REGARDING THE ADA REQUIREMENTS IS PROVIDED IN THE HILTON ACCESSIBILITY DESIGN MANUAL (HADG). REFERENCES TO THE DIFFERENT CHAPTERS OF THE HADG ARE INCLUDED WHERE APPROPRIATE.

WOOD STUD WALL TYPES

ABBREVIATIONS

APPROXIMATELY

CENTERLINE

DIAMETER

NUMBER

INCH(ES)

FOOT (FEET)

AFF ABOVE FINISH FLOOR

AHJ AUTHORITY HAVING JURISDICTION

CODE APPLICABLE REGULATIONS GOVERNING I

COMPLIANCE SUMMARY SHEETS

CONTRACT SCOPE OF WORK, SEE CODE MAX MAXIMUM

ACSF ACCESS FLOORING

BOTTOM OF

BOB BOTTOM OF BEAM

BOS BOTTOM OF STEEL

CLEAN OUT

EXIST(ING)

DS DOWN SPOUT

DW DISHWASHER

DWG DRAWING

EQ EQUAL

CONTROL JOINT

CMU CONCRETE MASONRY UNIT

DIMENSION POINT

EXPANSION JOINT

ADJ ADJACENT

BOT BOTTOM

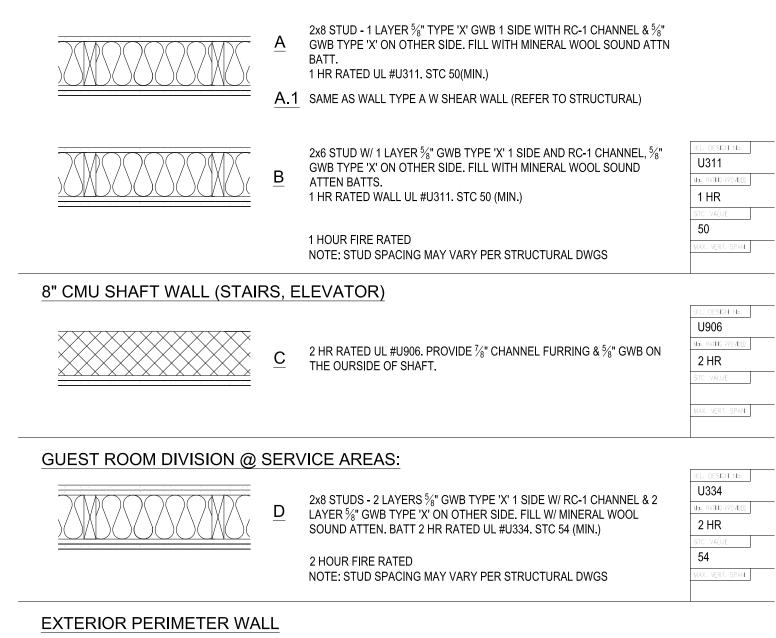
CLG CEILING

CLR CLEAR

NONE

AND

GUEST ROOM DIVISION & CORRIDORS:



EXP EXPOSED STRUCTURE

FLOOR DRAIN

FF EL FINISH FLOOR ELEV

FOC FACE OF CONCRETE

FOM FACE OF MASONRY

FOF FACE OF FINISH

FOS FACE OF STUD

FOW FACE OF WALL

GB GYPSUM BOARD

MANHOLE

MO MASONRY OPENING

NIC NOT IN CONTRACT

OAE OR APPROVED EQUAL

OD OUTSIDE DIAMETER

OFD OVERFLOW DRAIN

OPH OPPOSITE HAND

OTS OPEN TO STRUCTURE

OF/CI OWNER FURNISHED, CONTRACTOR INSTALLED

OF/OI OWNER FURNISHED, OWNER INSTALLED

NTS NOT TO SCALE

OC ON CENTER

HEAT STRENGTHENED

INSIDE DIAMETER

GALV GALVANIZED

HB HOSE BIB

MIN MINIMUM

MTL MATERIAL

MW MICROWAVE

FACE OF

FOB FACE OF BEAM

FIRE EXTINGUISHER

FEC FIRE EXTINGUISHER CABINET

PFN PREFINISHED (ALTERNATE PREFIN)

SST STAINLESS STEEL (BASE, WALL PANEL, OR

RCP REFLECTED CEILING PLAN

ROUGH OPENING

SF SQUARE FOOT (FEET)

COVERING)

TEMPERED

TOC TOP OF CONCRETE

TOD TOP OF STEEL DECK

UNO UNLESS NOTED OTHERWISE

TOP TOP OF PARAPET

VIF VERIFY IN FIELD

TOS TOP OF STEEL

TOW TOP OF WALL

T/M TO MATCH

TYP TYPICAL

TOP OF

TOB TOP OF BEAM

ROOF DRAIN

REF REFRIGERATOR

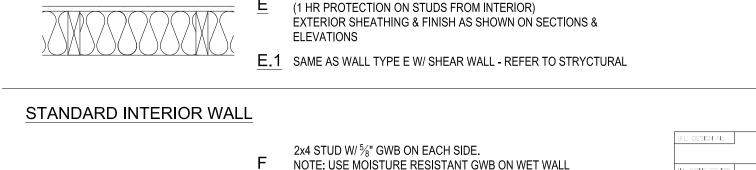
ROW RIGHT OF WAY

SHTHG SHEATHING

SIM SIMILAR

STN STAIN

PLAS PLASTER



	<u>F</u>	NOTE: USE MOISTURE RESISTANT GWB ON WET WALL LOCATIONS.	Made: RATING PROVIDED	
W)	<u>F.1</u>	SAME AS WALL TYPE F W/ 2x6 STUDS	STC VALUE	
	<u>F.2</u>	SAME AS WALL TYPE F W/ 1 LAYER 5/8" GWB TYPE 'X' ON WACH SIDE - 1 HR RATED UL #U309/305	MAX. VERT. SPAN	

2x6 STUD W/ 5/8" GWB TYPE 'X' R-19 BATT INSULATION

UTILITY SHAFT 1HR

G 1 LAYER 5/8" GWB TYPE 'X', IN 2 1/2" CH CHANNEL W/ 1" GWB SHAFTLINER (3 STORIES OR LESS) UL #U469

UTILITY SHAFT 2HR

2 LAYER 5/8" GWB TYPE 'X', IN 2 1/2" CH CHANNEL W/ 1" GWB SHAFTLINER PANEL (4 STORIES OR MORE) UL #U438

UTILITY SHAFT 2HR (VENTILATION)

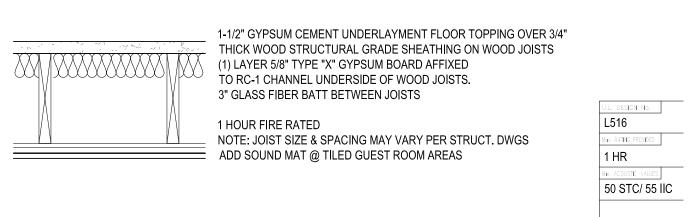
2x4 STUDS @ 16" O.C. W/ 2 LAYER $\frac{5}{8}$ " GWB TYPE 'X' EACH SIDE (CONT.) UL #U301

CONTRACTOR'S OPTION: PROVIDE "QUIETROCK" OR "SOUNDBREAK" GYPSUM BOARD IN LIEU OF THE GYPSUM BOARD PROVIDED THE REQUIRED STC AND FIRE RATINGS ARE MAINTAINED. REFER TO HOME 2 SUITES BY HILTON STANDARDS MANUAL FOR ADDITIONAL INFORMATION REGARDING

WOOD FRAMED FLOOR/CEILING ASSEMBLIES

PARTITION ACOUSTIC, FIRE PROTECTION AND CONSTRUCTION REQUIREMENTS.

TYPICAL FLOOR ASSEMBLY:



CONTRACTOR'S OPTION: PROVIDE "QUIETROCK" OR "SOUNDBREAK" GYPSUM BOARD IN LIEU OF THE GYPSUM BOARD PROVIDED THE REQUIRED STC AND FIRE RATINGS ARE MAINTAINED.

REFER TO HOME 2 SUITES BY HILTON STANDARDS MANUAL FOR ADDITIONAL INFORMATION REGARDING FLOOR ASSEMBLY ACOUSTIC, FIRE PROTECTION AND CONSTRUCTION REQUIREMENTS.

ASSEMBLIES

BUILDING IS TYPE VA CONSTRUCTIONE - FULLY SPRINKLERED,

TYPICAL ROOF FRAMING (ROOF/CEILING ASSEMBLY) 1 HOUR PROTECTED - UL P522 SINGLE PLY WHITE ROOF MEMBRANE - 60 MIL TPO (CLASS A)

 RIGID POLY ISO ROOF INSULATION - MIN R25 • 3/4 T&G WOOD DECKING

 WOOD TRUSS FRAMING @ 24" O.C. U.N.O. • 7/8" FURRING CHANNEL @ 16" O.C.

• 5/8" TYPE "X" GWB CEILING TYPICAL FLOR FRAMING: (FLOOR/CEILING ASSEMBLY) 1 HOUR RATED (SEPARATION & PROTECTION) - UL #L516/STC 58

 1½" GYPSUM CEMENT UNDERLAYMENT (GYPCRETE) SOUND SUPPRESSION MATT - MIN. ½" • 3/4" T&G WOOD FLOOR SHEATHING

WOOD TRUSSES @ 24" O.C. (U.N.O.) GUEST FRAMING:

STEEL FRAME/NO TRUSSES - LOBBY / PUBLIC 2X10 WOOD FRAMING @ CORRIDORS

 MIN 3 ½" BATT/SOUND INSULATION RC "FURRING" CHANNEL @ 16" O.C.

• 5/8" TYPE "X" GWB CEILING

TYPICAL EXTERIOR WALL 1 HOUR PROTECTED BEARING WALLS. UL #U301. STC 45

 EXTERIOR FINISH AIR/WATER WEATHER BARRIER

 WOOD SHEATHING (SEE STRUCTURAL) BATT INSULATION (MIN. R19)

• 2X6 WOOD STUDS @ 16" O.C. (U.N.O.) • 5/8" TYPE "X" GWB INTERIOR WALL

TYPICAL INTERIOR WALL - CORRIDORS & GUESTROOM DEMISING

1 HOUR SEPARATION/PROTECTION UL #311 (U344, U345). STC 50

2X6 STUDS (CORRIDORS), 2X8 (GUESTROOMS) @ 16" O.C.

FILL SOLID W/ SOUND ATTENUATION BATTS.

PROVIDE RC CHANNEL @ 16" O.C. 1 SIDE

 1 LAYER ⁵/₈" GWB TYPE "X" EACH SIDE SHEAR WALL SHEATHING - WHERE SHOWN ON STRUCTURAL

OPTIONAL - SOUND MATT (ONE SIDE W/O RC CHANNEL)

TYPICAL INTERIOR WALL - GUESTROOM DIVISION @ SERVICE AREA

1 HOUR SEPARATION/PROTECTION UL #U334 - STC 54

 2x6 WOOD STUDS @ 16" O.C. RC-1 CHANNEL, 1 SIDE ONLY

• 2 LAYERS 5/8" GWB TYPE "X" EACH SIDE TO DECK

TYPICAL INTERIOR STUD WALL (NON STRUCTURAL)

NO RATING 2X STUDS AS NOTED

5/8" GWB EACH SIDE

USE MOISTURE RESISTANT GWB @ WET AREAS

(TOILET/SHOWERS/ETC.)

NOTES: GENERAL FIRE RATING ALL INTERIOR STEEL COLUMN SHALL BE WRAPPED W 5/8"

TYPE "X" GWB TO DECK - PROVIDE 1 HR FIRE PROTECTION. UL

STAIR /ELEVATOR SHAFTS ARE 8" CMU WITH 2 HOUR RATING -

UL #U411

 LINEN CHUTE SHAFT, 2 HOUR RATED - UL #U438 EX FAN / MECHANICAL CHASE / SHAFT - 2 HOUR RATED UL

ARCHITECTURE COR3 Design, LLC

Commercial, Office, Retail, Restaurant, Real Estate Development

125 Rhett Street ₩ Suite 101

 $\stackrel{\square}{\mathrel{\cup}}$ Greenville, SC 29601 Phone: 864.451.5288 Fax: 864.990.3085

🖔 www.cor3design.com

Consultants: STRUCTURAL Taylor and Viola Structural Engineers

PO Box 2616 Hickory, NC 28603 828.328.6331 PLUMBING

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MECHANICAL LWI Consulting Engineers 870 Cleveland St, STE 1D

ELECTRICAL Matrix Engineering, INC 912 S Pine Street Spartanburg, SC 29302 864.583.6274

Greenville, SC 29601

864.271.6535

475 HOSPITALITY BLVD GREENWOOD, SC 29649

Client Logo:



Seals : COR 3 DESIGN GREENVILLE, SC 100698

03.20.2025 100% Issue For Hilton

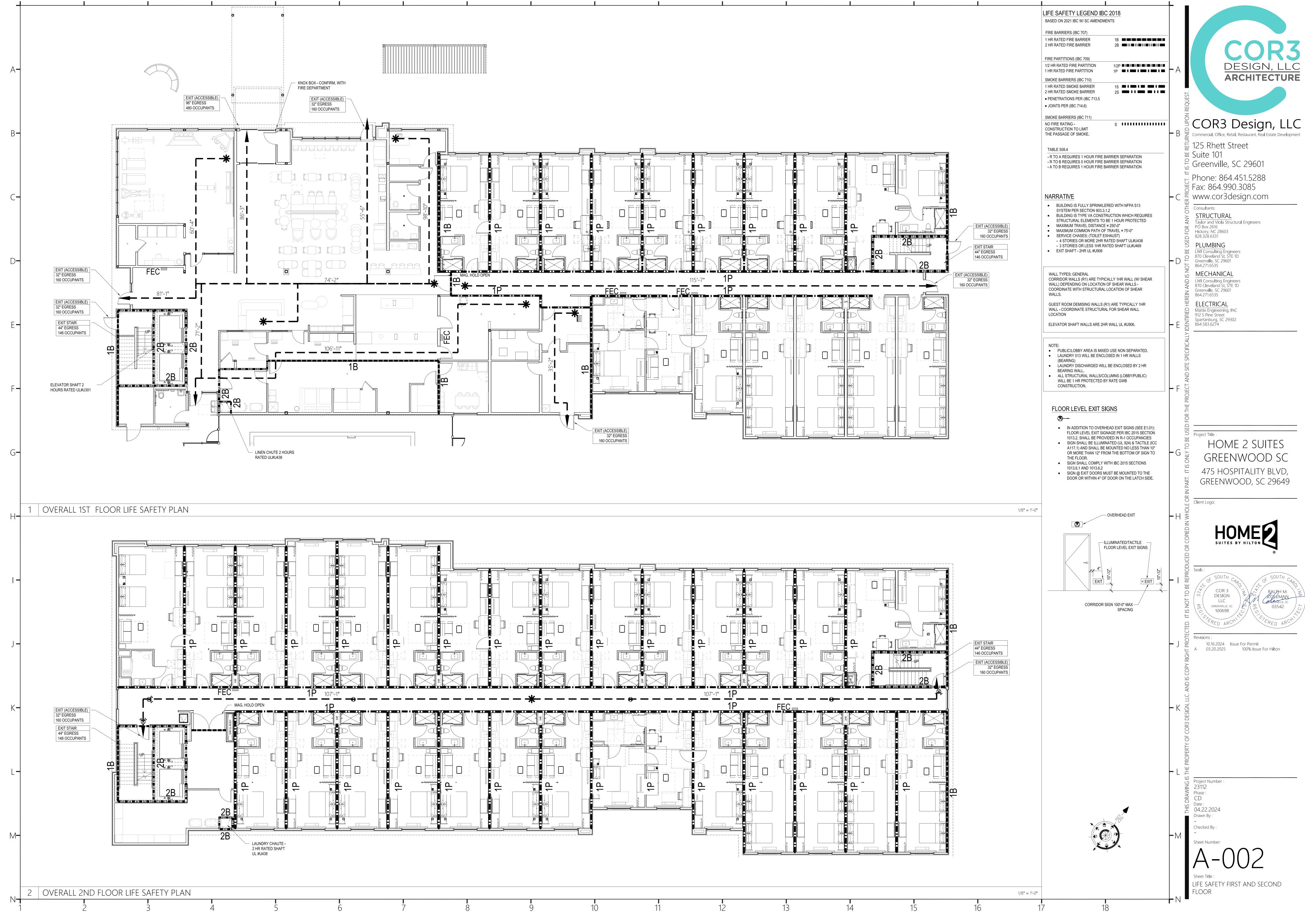
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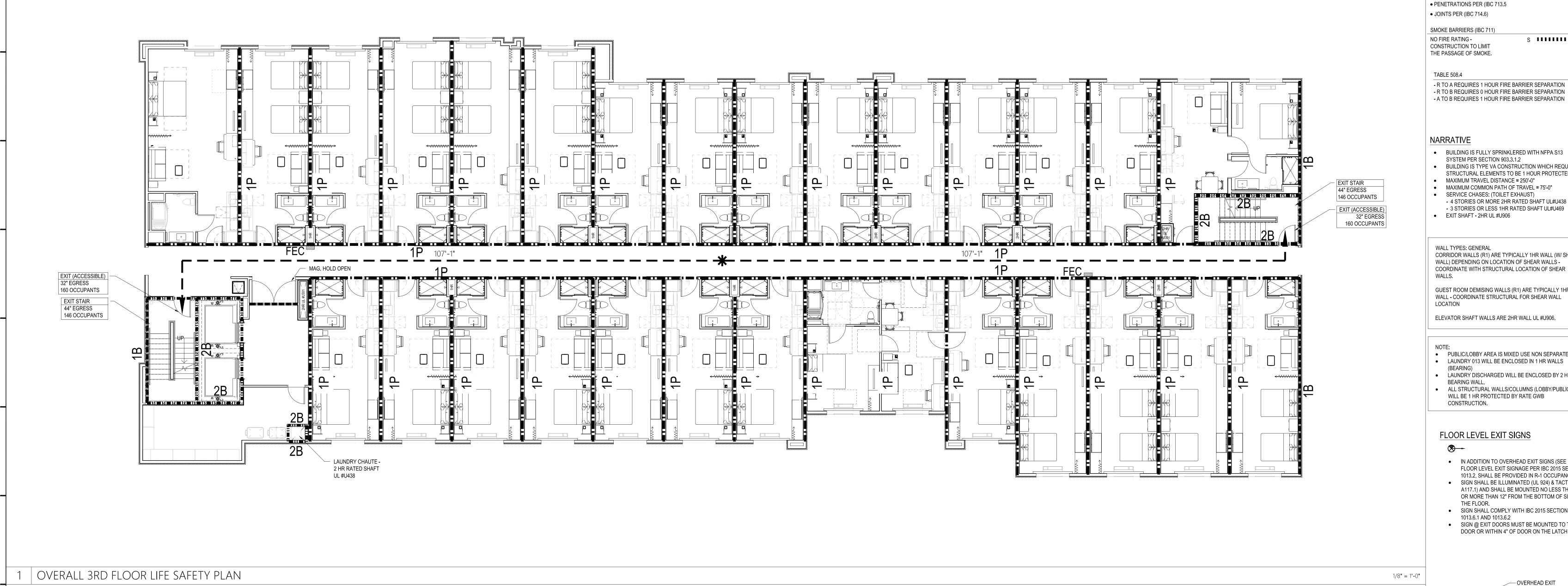
Project Number 23112 Phase: CD

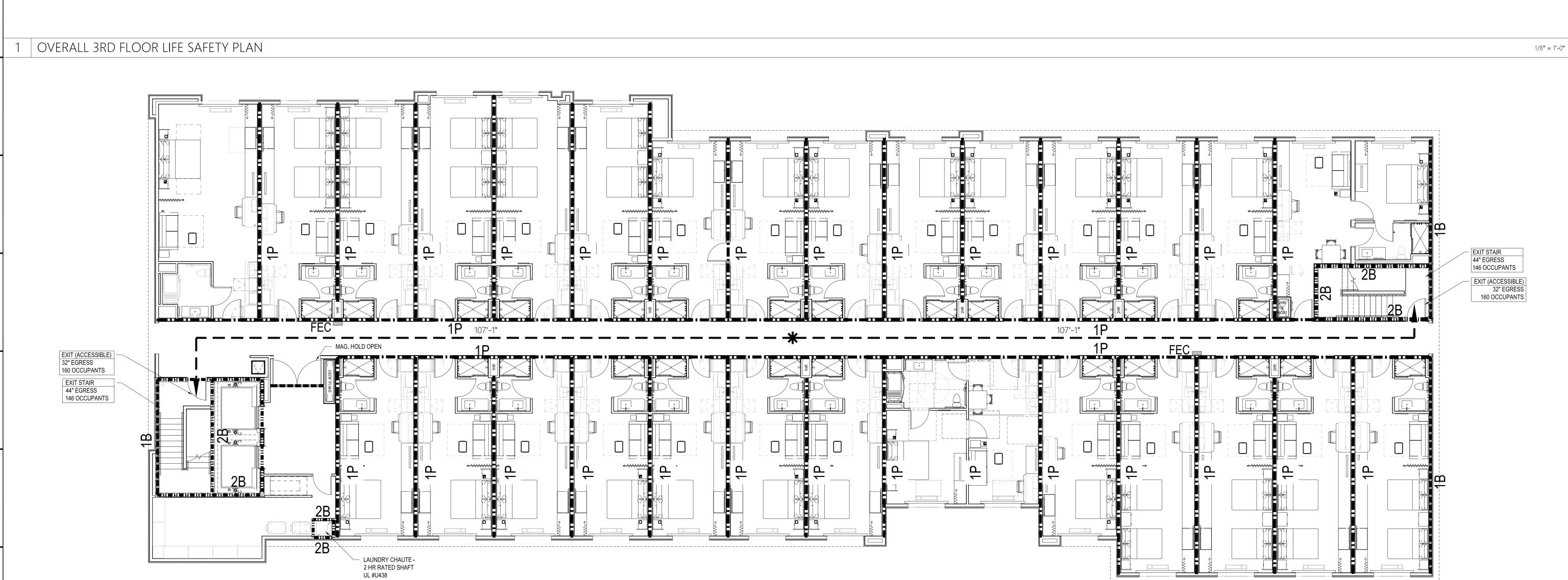
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Sheet Number:

HOTEL INFORMATION







OVERALL 4TH FLOOR LIFE SAFETY PLAN

LIFE SAFETY LEGEND IBC 2018 BASED ON 2021 IBC W/ SC AMENDMENTS FIRE BARRIERS (IBC 707)

ARCHITECTURE

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Matrix Engineering, INC

Spartanburg, SC 29302 864.583.6274

ELECTRICAL

912 S Pine Street

1 HR RATED FIRE BARRIER 2 HR RATED FIRE BARRIER 2B

FIRE PARTITIONS (IBC 709) 1/2 HR RATED FIRE PARTITION 1/2P

1 HR RATED FIRE PARTITION SMOKE BARRIERS (IBC 710) 1 HR RATED SMOKE BARRIER 1S 2 HR RATED SMOKE BARRIER 2S

SMOKE BARRIERS (IBC 711) NO FIRE RATING -

S CONSTRUCTION TO LIMIT THE PASSAGE OF SMOKE.

TABLE 508.4 - R TO A REQUIRES 1 HOUR FIRE BARRIER SEPARATION - R TO B REQUIRES 0 HOUR FIRE BARRIER SEPARATION

NARRATIVE

- BUILDING IS FULLY SPRINKLERED WITH NFPA S13
- SYSTEM PER SECTION 903.3.1.2

 BUILDING IS TYPE VA CONSTRUCTION WHICH REQUIRES STRUCTURAL ELEMENTS TO BE 1 HOUR PROTECTED
- MAXIMUM TRAVEL DISTANCE = 250'-0" MAXIMUM COMMON PATH OF TRAVEL = 75'-0"
- SERVICE CHASES: (TOILET EXHAUST)
 4 STORIES OR MORE 2HR RATED SHAFT UL#U438 - 3 STORIES OR LESS 1HR RATED SHAFT UL#U469 EXIT SHAFT - 2HR UL #U906

WALL TYPES: GENERAL CORRIDOR WALLS (R1) ARE TYPICALLY 1HR WALL (W/ SHEAR

WALL) DEPENDING ON LOCATION OF SHEAR WALLS -COORDINATE WITH STRUCTURAL LOCATION OF SHEAR GUEST ROOM DEMISING WALLS (R1) ARE TYPICALLY 1HR

LOCATION ELEVATOR SHAFT WALLS ARE 2HR WALL UL #U906.

- PUBLIC/LOBBY AREA IS MIXED USE NON SEPARATED. LAUNDRY 013 WILL BE ENCLOSED IN 1 HR WALLS
- LAUNDRY DISCHARGED WILL BE ENCLOSED BY 2 HR
- ALL STRUCTURAL WALLS/COLUMNS (LOBBY/PUBLIC)
 WILL BE 1 HR PROTECTED BY RATE GWB
 CONSTRUCTION.

FLOOR LEVEL EXIT SIGNS

- IN ADDITION TO OVERHEAD EXIT SIGNS (SEE E1.01);
- FLOOR LEVEL EXIT SIGNAGE PER IBC 2015 SECTION 1013.2, SHALL BE PROVIDED IN R-1 OCCUPANCIES
 SIGN SHALL BE ILLUMINATED (UL 924) & TACTILE (ICC A117.1) AND SHALL BE MOUNTED NO LESS THAN 10" OR MORE THAN 12" FROM THE BOTTOM OF SIGN TO
- THE FLOOR. SIGN SHALL COMPLY WITH IBC 2015 SECTIONS 1013.6.1 AND 1013.6.2

SIGN @ EXIT DOORS MUST BE MOUNTED TO THE DOOR OR WITHIN 4" OF DOOR ON THE LATCH SIDE.

┌── ILLUMINATED/TACTILE FLOOR LEVEL EXIT SIGNS

CORRIDOR SIGN 100'-0" MAX —

1/8" = 1'-0"

Client Logo:

HOME 2 SUITES

GREENWOOD SC

475 HOSPITALITY BLVD,

GREENWOOD, SC 29649

DESIGN

10.16.2024 Issue For Permit A 03.20.2025 100% Issue For Hilton

Project Number : 23112

LIFE SAFETY THIRD & FOURTH FLOOR

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(such as Canada), respectively.

6A. Lead Discs or Tabs — (Not Shown) - Used in lieu of or in addition to the lead batten strips (Item 6) or optional at other locations -Max 3/4 in. diam by max 0.125 in. thick lead discs compression fitted or adhered over steel screw heads or max 1/2 in. by 1-1/4 in. by 6B. Lead Batten Strips — (Not Shown, for use with Item 4D) Lead batten strips, 2 in. wide, max 10 ft long with a max thickness of 0.140 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. Type S-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of 99.5% meeting the Federal specification QQ-L-201f, Grades "B, C or D". Lead batten adhered over steel screw heads. Lead discs to have a purity of 99.5% meeting the Federal Specification QQ-L-201f, Grades "B, C or D". * Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively. Last Updated on 2022-12-02 The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured

See General Information for Fire-resistance Ratings - ANSI/UL 263 Certified for United States Design Criteria and Allowable Variances See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada Design Criteria and Allowable Variances the strip. Lead batten strips to have a purity of 99.5% meeting the Federal specification QQ-L-201f, Grades "B, C or D". 6C. Lead Discs — (Not Shown, for use with Item 4B) Max 5/16 in. diam by max 0.140 in. thick lead discs compression fitted or adhered over steel screw heads. Lead discs to have a purity of 99.5% meeting the Federal Specification QQ-L-201f, Grades "B, C or D". * Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification * Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification adjacent to the extracted material. In addition, the reprinted material must include a copyright notice in the following format: "©2023 UL LLC."

Horizontal Section 1. Concrete Blocks* — Nominal 6 by 8 by 16 in, hollow or solid. Various designs. Classification (2 hr). See Concrete Blocks category for list of eligible manufacturers. ANCHOR CONCRETE PRODUCTS INC GAGNE & SON CONCRETE BLOCK INC

GLENWOOD MASONRY PRODUCTS Allowable compressive stress of 57% of max allowable compressive stress in accordance with the empirical design method. OLDCASTLE APG SOUTH INC. DBA ADAMS PRODUCTS WESTBROOK CONCRETE BLOCK CO INC Allowable compressive stress of 75.6% of max allowable compressive stress in accordance with the empirical design method.

2. Mortar — Blocks laid in full bed of mortar, nom. 3/8 in. thick, of not less than 2-1/4 and not more than 3-1/2 parts of clean sharp sand to 1 part Portland cement (proportioned by volume) and not more than 50 percent hydrated lime (by cement volume). Vertical 3. Portland Cement Stucco or Gypsum Plaster — Add 1/2 hr to Classification if used. Attached to concrete blocks (Item 1).

4. Foamed Plastic* — (Optional-Not Shown) — 1-1/2 in. thick max, 4 ft wide sheathing attached to concrete blocks (Item 1). ATLAS ROOFING CORP — "EnergyShield Pro Wall Insulation", "EnergyShield Pro 2 Wall Insulation", EnergyShield CGF Pro and EnergyShield Ply

DUPONT DE NEMOURS, INC. — Types Thermax Sheathing, Thermax Light Duty Insulation, Thermax Heavy Duty Insulation, Thermax Metal Building Board, Thermax White Finish Insulation, Thermax ci Exterior Insulation, Thermax XARMOR ci Exterior Insulation, Thermax IH Insulation, Thermax Plus Liner Panel, Thermax Heavy Duty Plus (HDP), TUFF-R™ ci Insulation, Thermax Butler Stylwall Insulation Board and Thermax Morton Heavy Duty Insulation Board

FIRESTONE BUILDING PRODUCTS CO L L C — "Enverge™ CI Foil Exterior Wall Insulation" and "Enverge™ CI Glass Exterior Wall Insulation" HUNTER PANELS, A DIVISION OF CARLISLE CONSTRUCTION MATERIALS, LLC — Types "Xci-Class A", "Xci 286", "Xci Foil (Class A)"

RMAX, A BUSINESS UNIT OF SIKA CORPORATION — Types "TSX-8500", "ECOMAXci FR", "TSX-8510", "ECOMAX xi FR White", "ECOMAXci", "ECOMAXci FR Air Barrier", "Thermasheath-XP", "Thermasheath", "Durasheath"

JOHNS MANVILLE — Type "AP Foil-Faced Foam Sheathing" 4A. Building Units* — As an alternate to Item 4, min. 1-in thick polyisocyanurate composite foamed plastic insulation boards, nom. RMAX, A BUSINESS UNIT OF SIKA CORPORATION — "Thermasheath-SI", "ECOBASEci", "ThermaBase-CI", "ECOMAXci FR Ply", "ECOMAXci Ply"

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification

BXUV.U438 - Fire-resistance Ratings - ANSI/UL 263

Design/System/Construction/Assembly Usage Disclaimer

• Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for

compliance with applicable requirements. The published information cannot always address every construction nuance

• When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product

each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials

Fire-resistance Ratings - ANSI/UL 263

BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States

BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

December 01, 2022

Nonbearing Wall Rating — 2 HR.

(such as Canada), respectively.

manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for

use of UL Certified products, equipment, system, devices, and materials

Authorities Having Jurisdiction should be consulted before construction

• Only products which bear UL's Mark are considered Certified.

Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and

UL Product **iQ**®

encountered in the field.

and alternate methods of construction.

(such as Canada), respectively. Last Updated on 2023-02-06 UL Product **iQ**[®] BXUV.U469 - Fire-resistance Ratings - ANSI/UL 263

Design/System/Construction/Assembly Usage Disclaimer Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials. Authorities Having Jurisdiction should be consulted before construction. • Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for

compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field. • When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction Only products which bear UL's Mark are considered Certified.

Fire-resistance Ratings - ANSI/UL 263 BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada See General Information for Fire-resistance Ratings - ANSI/UL 263 Certified for United States Design Criteria and Allowable Variances See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada Design Criteria and Allowable Variances

December 03, 2022

Assembly Rating — 1 HR * Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

(min 20 MSG steel required when Item 4A, 4B, or 4C is used). Runners attached to structural supports with steel fasteners located not greater than 2 in. from ends and not greater than 24 in. OC. 2. Steel Studs — "C-H" shaped studs, 2-1/2 in. wide by 1-1/2 in. deep, fabricated from min 25 MSG galv steel (min 20 MSG steel required when Item 4A, 4B, or 4C is used), spaced 24 in. or 600 mm OC (max 16 in. OC when Item 4A, 4B, or 4C is used). Vertically restrained walls require studs to be cut 3/8 in. less than floor to ceiling height. 3. Gypsum Board* — 1 in. thick gypsum wallboard liner panels, supplied in nominal 24 in. or 600 mm widths. Vertical edges inserted in "H" shaped section of "C-H" studs. Free edge of end panels attached to long leg of "J" runners with 1-5/8 in. long Type S head steel screws spaced not greater than 12 in. OC. CERTAINTEED GYPSUM INC — Types Shaftliner, EGRG Shaftliner or GlasRoc Shaftliner CGC INC — Type SLX. CERTAINTEED GYPSUM INC — Type LGFCSL **GEORGIA-PACIFIC GYPSUM L L C** — Types TP-6, DGUSL, and TRSL UNITED STATES GYPSUM CO — Type SLX **USG BORAL DRYWALL SFZ LLC** — Type SLX **USG MEXICO S A DE C V** — Type SLX. 4. Gypsum Board* — 5/8 in. thick, 4 ft or 1200 mm wide, applied vertically and attached to studs with 1 in. long Type S steel screws spaced 12 in. OC along the edges and in the field of the boards. AMERICAN GYPSUM CO — Types AGX-1, M-Glass, AG-C, LightRoc. CABOT MANUFACTURING ULC — 5/8 Type X, Type Blueglass Exterior Sheathing **CERTAINTEED GYPSUM INC** — Type C, Type X-1.

HORZ. SECTION I. Floor and Ceiling Runners — "J" - shaped, 2-1/2 in. wide with unequal legs of 1 in. and 2 in., fabricated from 24 MSG galv steel

CGC INC — Types C, IP-X1, IP-X2, IPC-AR, SCX, ULIX, ULX, or WRC.

CERTAINTEED GYPSUM INC — Type C

CERTAINTEED GYPSUM INC — Type LGFC-C/A.

THAI GYPSUM PRODUCTS PCL — Type C

GEORGIA-PACIFIC GYPSUM L L C — Types 5, DAPC, TG-C.

NATIONAL GYPSUM CO — Types eXP-C, FSK-C, FSW-C, FSMR-C.

Gyproc FireStop MR ACTIV'Air, Gyproc FireStop M2TECH ACTIV'Air

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Types PG-C.

CGC INC — Type C, IP-X2, or WRC.

CERTAINTEED GYPSUM INC — Types LGFC-C, LGFC-C/A, LGFC6A

X, Type TG-C, Type LWX, Veneer Plaster Base-Type LWX, Water Rated-Type LWX, Sheathing Type-LWX, Soffit-Type LWX, Type DGLW, Water Rated-Type DGLW, Sheathing Type- DGLW, Soffit-Type DGLW, Type LW2X, Veneer Plaster Base - Type LW2X, Water Rated - Type LW2X, Sheathing - Type LW2X, Soffit - Type LW2X, Type DGL2W, Water Rated - Type DGL2W, Sheathing - Type DGL2W, Type DGG, Type DAP, Type DS.

GEORGIA-PACIFIC GYPSUM L L C — Types 5, DAPC, Type X, Veneer Plaster Base - Type X, Water Rated - Type X, Sheathing - Type X, Soffit - Type

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Types C, PG-11, PG-C, PGS-WRS, PGI

SAINT-GOBAIN GYPROC MIDDLE EAST FZE — Type Gyproc FireStop, Gyproc FireStop MR, Gyproc FireStop M2TECH, Gyproc FireStop ACTIV'Air, Gyproc FireStop MR ACTIV'Air, Gyproc FireStop M2TECH ACTIV'Air, Gyproc DuraLine, Gyproc DuraLine MR, Gyproc DuraLine M2TECH, Gyproc DuraLine ACTIV'Air, Gyproc DuraLine MR ACTIV'Air, Gyproc DuraLine M2TECH ACTIV'Air

THAI GYPSUM PRODUCTS PCL — Type C.

UNITED STATES GYPSUM CO — Types C, FRX-G, IP-X1, IP-X2, IPC-AR, SCX, ULIX, ULX or WRC

USG BORAL DRYWALL SFZ LLC — Types C, SCX

USG MEXICO S A DE C V — Types C, IP-X1, IP-X2, IPC-AR, SCX, ULX, or WRC.

4A. Gypsum Board* — Not Shown - As an Alternate to Item 4. Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Lead batten strips (Item 6) required behind vertical joints RAY-BAR ENGINEERING CORP — Type RB-LBG

4B. Gypsum Board* — Not Shown - As an Alternate to Item 4. Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to study with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Lead batten strips required behind vertical joints. To be used with Lead Batten Strips (see Item 6B) or Lead Discs (see Item 6C). MAYCO INDUSTRIES INC — Type X-Ray Shielded Gypsum

4C. Gypsum Board* — (Not Shown - As an Alternate to Item 4.). Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws gypsum panel steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 8 ft long with a max thickness of 0.14 in. placed on the face of studs and attached to the stud with construction adhesive and two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, nominal 3/8 in. diam by max 0.085 in. thick. Compression fitted or adhered over the screw heads. Lead batten strips and discs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". RADIATION PROTECTION PRODUCTS INC — Type RPP - Lead Lined Drywall

5. Batts and Blankets* — (Optional) — Mineral wool batts partially or completely filling stud cavity. **ROCKWOOL** — Type AFB, min. density 1.8 pcf / 28.8 kg/m³

THERMAFIBER INC — Type SAFB, SAFB FF

5A. Fiber, Sprayed* — As an alternate to Batts and Blankets (Item 5) — (100% Borate Formulation) — Spray applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product with a nominal dry density of 2.7 lb/ft³. Alternate Application Method: The fiber is applied without water or adhesive at a nominal dry density of 3.5 lb/ft³, in accordance with the application instructions supplied with the product. Applegate Greenfiber Acquisition LLC — INS735, INS745, INS750LD, and Insulmax for use with wet or dry application. INS765LD and INS773LD are to be used for dry application only.

4D. Gypsum Board* — (Not Shown) - May be used in lieu of Items 4 for the base layer - Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on

MAYCO INDUSTRIES INC — Type X-Ray Shielded Gypsum 4E. Gypsum Board* — (Not Shown) - May be used in lieu of Items 4 for the base layer. Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in, long Type S-12 steel screws gypsum panel steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and face of studs and attached to the stud with construction adhesive and two 1 in. long Type S-12 pan head steel screws, one at the top

4F. Gypsum Board* — (As an alternate to Item 4) — 5/8 in. thick gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Inner or base layer attached to studs with 1 in. long Type S or S-12 steel screws spaced 24 in. OC when installed vertically or 16 in. OC when installed horizontally. Outer or face layer attached to studs with 1-5/8 in. long Type S or S-12 steel screws spaced 8 in, OC when installed vertically and staggered min, 8 in, from base layer screws or 8 in, OC when installed horizontally and staggered min. 6 in. from base layer screws. Horizontal joints between inner and outer layers need not to be staggered. Horizontal joints need not be backed by steel framing. Vertical joints centered over studs and staggered 24 in. Outer layer joints covered with paper tape and joint compound. Exposed screw heads covered with joint compound. When used in widths other than 48 in., gypsum panels to be installed horizontally.

5B. Fiber, Sprayed* — As an alternate to Batts and Blankets (Item 5) - Spray applied cellulose insulation material. The fiber is applied with water to interior surfaces in accordance with the application instructions supplied with the product. Applied to completely fill the enclosed cavity. Minimum dry density of 4.3 pounds per cubic ft.

water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. To facilitate the installation of the material, any thin, woven or non-woven netting may be attached by any means possible to the outer face the studs. The material shall reach equilibrium moisture content before the installation of materials on either face of the studs. The minimum dry

opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Lead batten strips required behind vertical joints. To be used with Lead Batten Strips (see Item 6B) or Lead Discs (see

of the strip and one at the bottom of the strip. Lead discs, nominal 3/8 in. diam by max 0.085 in. thick. Compression fitted or adhered over the screw heads. Lead batten strips and discs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". RADIATION PROTECTION PRODUCTS INC — Type RPP - Lead Lined Drywall

CGC INC — Type ULIX.

UNITED STATES GYPSUM CO — Type ULIX.

5. Batts and Blankets* — (Optional) — (Not shown) — Mineral wool or glass fiber batts partially or completely filling stud cavity. Any mineral wool or glass fiber batt material bearing the UL Classification Marking as to Fire Resistance.

5A. Fiber, Sprayed* — As an alternate to Batts and Blankets (Item 5) — (100% Borate Formulation) — Spray applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product with a nominal dry density of 2.7 lb/ft³. Alternate Application Method: The fiber is applied without water or adhesive at a nominal dry density of 3.5 lb/ft³, in accordance with the application instructions supplied with the product. Applegate Greenfiber Acquisition LLC — INS735, INS745, INS750LD, and Insulmax for use with wet or dry application. INS765LD and INS773LD are to be used for dry application only.

NU-WOOL CO INC — Cellulose Insulation

5C. Fiber, Sprayed* — As an alternate to Batts and Blankets (Item 5) - Spray applied cellulose fiber. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. The minimum dry density shall be 4.30 lbs/ft³. INTERNATIONAL CELLULOSE CORP — Celbar-RL

5D. Fiber, Sprayed* — As an alternate to Batts and Blankets (Item 5) — Spray-applied cellulose material. The fiber is applied with density shall be 5.79 lbs/ft³. **APPLEGATE HOLDINGS L L C** — Applegate Advanced Stabilized Cellulose Insulation

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Consultants: STRUCTURAL Taylor and Viola Structural Engineers PO Box 2616

Hickory, NC 28603 828.328.6331 PLUMBING

LWI Consulting Engineers 870 Cleveland St, STE 1D Greenville, SC 29601 864.271.6535 **MECHANICAL** LWI Consulting Engineers

870 Cleveland St, STE 1D

Greenville, SC 29601

864.271.6535 ELECTRICAL Matrix Engineering, INC 912 S Pine Street Spartanburg, SC 29302

864.583.6274



GREENVILLE, SC

10.16.2024 Issue For Permit 03.20.2025 100% Issue For Hilton

Project Number

6. Lead Batten Strips — For Use with Item 4B - (Not Shown) - Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 4A) and optional at remaining stud locations. Strips, min 1-1/2 in. wide, max 10 ft long with a max thickness of 0.125 in. Strips placed on the interior face of studs and attached from the exterior face of the stud with two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".

max 0.125 in. thick lead tabs placed on gypsum boards (Item 5) underneath screw locations prior to the installation of the screws. Lead discs or tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".

strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. 6C. Lead Discs — (Not Shown, for use with Item 4D) Max 5/16 in. diam by max 0.140 in. thick lead discs compression fitted or

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HORZ. SECTION CEILING 1. Floor and Ceiling Runners — "J" -shaped runner, 2-1/2 in. wide with unequal legs of 1 in. and 2 in., fabricated from 24 MSG galv steel (min 20 MSG when Item 4B is used). Runners positioned with short leg toward finished side of wall. Runners attached to

structural supports with steel fasteners located not greater than 2 in. from ends and not greater than 24 in. OC. 2. Steel Studs — "C-H" -shaped studs, 2-1/2 in. wide by 1-1/2 in. deep, fabricated from 25 MSG galv steel (min 20 MSG when Item 4B,

4D, or 4E is used). Cut to lengths 3/8 to 1/2 in. less than floor to ceiling height and spaced 24 in. or 600 mm OC (max 16 in. OC when 2A. Steel Studs — (Not shown)-"E" -shaped studs installed in place of "C-H" -shaped studs (Item 2) to secure the closure liner panels at the ends of walls. Fabricated from 25 MSG galv steel (min 20 MSG when Item 4B, 4D, or 4E is used), 2-1/2 in. wide, with one leg 1 in.

long and two legs 3/4 in. long. Shorter legs 1 in. apart to engage gypsum liner panels. Cut to lengths 3/8 in. less than floor to ceiling

height. Sill and lintel of opening formed with "J" -shaped runners (Item 1) secured to "E" -shaped studs with angle clips and steel 3. Gypsum Board* — 1 in. thick gypsum wallboard liner panels, supplied in nom 24 in. or 600 mm (for metric spacing) widths. Panels cut 1 in, less in length than floor to ceiling height. Vertical edges inserted in "H" -shaped section of "C-H" studs. Free edge of end panels attached to long leg of "J" -runners with 1-5/8 in. long Type S steel screws spaced not greater than 12 in. OC.

UNITED STATES GYPSUM CO — Type SLX.

USG BORAL DRYWALL SFZ LLC — Type SLX **USG MEXICO S A DE C V** — Type SLX.

CGC INC — Type SLX.

4. Gypsum Board* — 1/2 in. thick, 4 ft. or 1200 mm (for metric spacing) wide wallboard applied vertically in two layers. Inner or base layer attached to studs with 1 in. long Type S steel screws spaced 24 in. OC along the edges and in the field of the boards. Outer or face layer attached to studs and "J" -runners with 1-5/8 in. long Type S steel screws spaced 12 in. along the edges and in the field of the boards, staggered from screws in inner layer. Joints between inner and outer layers staggered. Outer layer joints covered with paper tape and joint compound. Exposed screw heads covered with joint compound

As an alternate method, inner wallboard layer applied vertically, outer wallboard layer applied horizontally. Inner layer attached to studs with 1 in. Type S steel screws spaced 24 in. OC along vertical edges and in the field. Outer layer attached to the studs and "J" runners over the inner layer with 1-5/8 in. long Type S steel screws spaced 12 in. OC in the field, along the vertical edges and to the floor and ceiling runners. Outer layer secured to inner layer wallboard with 1-1/2 in. long Type G steel screws located midway between studs and 1 in. from the horizontal joint. AMERICAN GYPSUM CO — Types AG-C.

CABOT MANUFACTURING ULC — Type C

UNITED STATES GYPSUM CO — Type C, IP-X2 or WRC. USG BORAL DRYWALL SFZ LLC — Type C

USG MEXICO S A DE C V — Type C, IP-X2 or WRC. 4A. Gypsum Board* — (As an alternate to Item 4) — 5/8 in. thick gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Inner or base layer attached to studs with 1 in. long Type S or S-12 steel screws spaced 24 in. OC when installed vertically or 16 in. OC when installed horizontally. Outer or face layer attached to studs with 1-5/8 in. long Type S or S-12

steel screws spaced 12 in, OC when installed vertically and staggered 12 in, from base layer screws or 8 in, OC when installed horizontally and staggered 8 in. from base layer screws. Horizontal joints between inner and outer layers staggered a min of 12 in. Horizontal joints need not be backed by steel framing. Vertical joints centered over studs and staggered 24 in. Outer layer joints covered with paper tape and joint compound. Exposed screw heads covered with joint compound. Paper tape and joint compound may be omitted when gypsum boards are supplied with square edges. When used in widths other than 48 in., gypsum panels to be CGC INC — Type AR, IP-AR, IP-X1, SCX, ULX, or WRX.

SAINT-GOBAIN GYPROC MIDDLE EAST FZE — Type Gyproc FireStop, Gyproc FireStop MR, Gyproc FireStop M2TECH, Gyproc FireStop ACTIV'Air,

UNITED STATES GYPSUM CO — Type AR, FRX-G, IP-AR, IP-X1, SCX, ULX or WRX.

USG BORAL DRYWALL SFZ LLC — Type SCX

USG MEXICO S A DE C V — Type AR, IP-AR, IP-X1, SCX, ULX, or WRX. 4B. Gypsum Board* — (Not Shown) - May be used in lieu of Items 4 or 4A for the base layer - Nom 5/8 in, thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Lead batten strips (Item 6) required behind vertical joints.

4C. Gypsum Board* — (As an alternate to Item 4, 4A, 4B) — 5/8 in. thick. Two layers installed as described in Item 4. NATIONAL GYPSUM CO — Type FSMR-C.

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials. Authorities Having Jurisdiction should be consulted before construction
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction. • Only products which bear UL's Mark are considered Certified.

Fire-resistance Ratings - ANSI/UL 263

BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada See General Information for Fire-resistance Ratings - ANSI/UL 263 Certified for United States

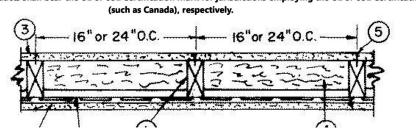
Design No. **U311**

See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada Design Criteria and Allowable Variances

December 01, 2022

Bearing Wall Rating — 1 HR. Finish Rating — 23 Min. This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be

used — See Guide <u>BXUV</u> or <u>BXUV7</u> * Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification



Second Layer **End Joint Detail**

1. Wood Studs — Nom 2 by 4 in., spaced 16 or 24. OC. Effectively cross braced. 2. Resilient Channel — 25 MSG galv steel. Resilient channels spaced vertically 24 in. OC, flange portion screw attached to one side of

studs with 1-1/4 in. long Type W coarse thread gypsum panel steel screws.

2A. Steel Framing Members* — (Optional, Not Shown, As an alternate to Item 2) — As an alternate to Item 2, furring channels and Steel Framing Members as described below: a. Furring Channels — Formed of No. 25 MSG galv steel. 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel.

b. Steel Framing Members* — Used to attach furring channels (Item a) to studs (Item 1). Clips spaced 48 in. OC. and secured to studs with No. 8 x 2-1/2 in, coarse drywall screw through the center grommet. Furring channels are friction fitted into clips, RSIC-1 clip for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) clip for use with 2-23/32 in. wide furring channels. PAC INTERNATIONAL L L C — Types RSIC-1, RSIC-1 (2.75).

2B. Steel Framing Members* — (Optional, Not Shown, As an alternate to Item 2) — Furring channels and Steel Framing Members as described below: a. Furring Channels — Formed of No. 25 MSG galv steel. 2-3/8 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Gypsum board attached to furring channels as described in Item 3.

b. Steel Framing Members* — Used to attach furring channels (Item a) to studs. Clips spaced 48 in. OC. Genie clips secured to studs with No. 8 x 1-1/2 in, coarse drywall screw through the center hole. Furring channels are friction fitted into clips. PLITEQ INC — Type Genie Clip

2C. Steel Framing Members* — (Optional, Not Shown, As an alternate to Item 2) — Furring channels and Steel Framing Members as a. Furring Channels — Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels as described in Item 3.

b. Steel Framing Members* — Used to attach furring channels (Item 2Ca) to studs. Clips spaced 48 in, OC., and secured to studs with 2 in, coarse drywall screw with 1 in, diam washer through the center hole. Furring channels are friction fitted into clips. STUDCO BUILDING SYSTEMS — RESILMOUNT Sound Isolation Clips — Type A237R

2D. Steel Framing Members* — (Optional, Not Shown, As an alternate to Item 2) — Furring channels and Steel Framing Members as a. Furring Channels — Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item 2Db. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels as described in Item 3.

b. Steel Framing Members* — Used to attach furring channels (Item 2Da) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips. **REGUPOL AMERICA** — Type SonusClip

2E. Steel Framing Members* — (Optional, Not Shown, As an alternate to Item 2) — Resilient channels and Steel Framing Members as a. Resilient Channels — Formed of No. 25 MSG galv steel, spaced 24 in. OC, and perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and secured in place with two No. 8 15 x 1/2 in. Philips Modified Tr screws spaced 2-1/2 in. from the center of the overlap. Gypsum board attached to resilient channels as described in Item 2.

b. Steel Framing Members* — Used to attach resilient channels (Item 2Ea) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Resilient channels are secured to clips with one No. 10 x 1/2 in. pan-head self-drilling screw. KEENE BUILDING PRODUCTS CO INC — Type RC+ Assurance Clip

2F. Steel Framing Members* — (Optional, Not Shown, As an alternate to Item 2) — Furring channels and Framing Members as a. Furring Channels — Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. First channel centered max. 3 in. from end of studs. Channels secured to rafts with two angled 1-1/4 inch (No. 6) Type W drywall screws. One on each side of the channel.. Ends of adjoining channels overlapped 6 in, and tied together with double strand of No. 18 AWG galvanized steel wire. As an

alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping No. 6 framing screws. min.

7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Two layers of gypsum board attached to

b. Framing Members* — Used to attach furring channels (Item 2Fa) to studs (Item 1). Rafts secured to each stud, spaced a maximum of 48 in, OC, vertically, Staggered 24 inch on center vertically on each adjacent stud. At the beginning or end of furring channel runs, additional rafts installed to support the ends of all furring channels. At stud ends, rafts may be installed on plates to achieve required furring channel spacing. Secured with two 1-5/8 inch (No. 6) Type W drywall screws. One on each side of the core. Fasteners should not be placed closer than 1/4 inch to the edges of the mounts.

2G. Steel Framing Members* — (Optional, Not Shown, As an alternate to Item 2) — Used as an alternate method to attach resilient channels to wall studs. A resilient sound isolation accessory shall be used at each attachment point of the resilient channels and spaced max 16 or 24 in. O.C (depending on stud spacing). Channel ends butted and centered under the structural members and attached with one accessory at each end. Additional accessories used to hold resilient channels that support the gypsum board end joints. The accessory envelops the mounting edge of the resilient channel. The accessory and resilient channel are fastened to the structural members with the screws supplied with the accessory and per the accessory manufacturer's installation instructions. Gypsum board screws spaced 8 in. OC (in lieu of 12 in.) when used. PAC INTERNATIONAL L L C — Type RC-1 Boost

2H. Steel Framing Members* — (Optional, Not Shown, As an alternate to Item 2) — Furring channels and Steel Framing Members as described below: a Furring Channels — Formed of No. 25 MSG galv steel. 2-23/32 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Gypsum board attached to furring channels as described in Item 3.

b Steel Framing Members* — Used to attach furring channels (Item 2Ha) to studs. Clips spaced maximum 48 in. OC. Clips secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center grommet. Furring channels are friction fitted into clips.

CLARKDIETRICH BUILDING SYSTEMS — Type ClarkDietrich Sound Clip

AMERICAN GYPSUM CO — Types AG-C

furring channels as described in Item 3A.

BCD LLC — Type HushFrame Raft Connector

- 21. Framing Members (Optional, Not Shown, As an alternative to Item 2) Furring channels and Framing Members as described below: a. Furring Strips — Nominal 1 in, deep by 3 in, wide wooden furring strips, spaced 24 in, OC perpendicular to studs. First channel centered max, 3 in, from end of studs. Furring secured with one 2 in, long, Type W screw into the rafts. Ends of adjoining furring butted between studs, and joined with an overlapping 12 in. furring strip fastened with two 2 in. long Type W screws equally spaced on both sides of the butt joint. Two layers of gypsum board attached to furring strips as described in Item 3A. b. Framing Members* — Used to attach furring channels (Item 2Ia) to studs (Item 1). Rafts secured to each stud, spaced a maximum of
- 48 in. OC. vertically. Staggered 24 inch on center vertically on each adjacent stud. At the beginning or end of furring channel runs, additional rafts installed to support the ends of all furring channels. At stud ends, rafts may be installed on plates to achieve required furring channel spacing. Secured with two 1-5/8 inch (No. 6) Type W drywall screws. One on each side of the core. Fasteners should not be placed closer than 1/4 inch to the edges of the mounts.

BCD LLC — Type HushFrame Raft Connector 3. Gypsum Board* — 5/8 in. thick, 4 ft wide. Screw attached on one side of wall to furring channels with 1 in. long, self-drilling, selftapping steel screws spaced 12 in. OC, vertical joints located midway between studs and back blocked with furring channels, attached with 1 in. long, self-drilling, self-tapping screws, spaced 12 in. OC, along each edge. Gypsum board on opposite side of wall attached directly to studs with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced 12 in. OC. Vertical joints shall be located over studs on this side of the wall.

CERTAINTEED GYPSUM INC — Type (

CGC INC — Types C, IP-X2, IPC-AR, ULIX

CERTAINTEED GYPSUM INC — Type LGFC-C/A GEORGIA-PACIFIC GYPSUM L L C — Types 5, DAPC, TG-C

NATIONAL GYPSUM CO — Types -eXP-C, FSK-C, FSW-C, FSW-G

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type C or PG-C

SAINT-GOBAIN GYPROC MIDDLE EAST FZE — Type Gyproc FireStop, Gyproc FireStop MR, Gyproc FireStop M2TECH, Gyproc FireStop ACTIV'Air, Gyproc FireStop MR ACTIV'Air, Gyproc FireStop M2TECH ACTIV'Air, Gyproc DuraLine, Gyproc DuraLine MR, Gyproc DuraLine M2TECH, Gyproc DuraLine ACTIV'Air, Gyproc DuraLine MR ACTIV'Air, Gyproc DuraLine M2TECH ACTIV'Air

THAI GYPSUM PRODUCTS PCL — Type C

UNITED STATES GYPSUM CO — Types C, IP-X2, IPC-AR, ULIX

USG BORAL DRYWALL SFZ LLC — Type C **USG MEXICO S A DE C V** — Types C, IP-X2, IPC-AR

3A. Gypsum Board* — (For use with Item 2F and 2I) - Any 5/8 in. thick, 4 ft. wide, Gypsum Board UL Classified for Fire Resistance (CKNX) eligible for use in Design No. G512. Two layers, applied vertically, and attached to steel studs (Item 2A) and furring (Item 2Fa or 2la). Vertical gypsum board side joints offset 24 inches between layers. Vertical joints staggered one stud cavity on opposite sides of studs. Type W steel screws used for wood framing. Type S steel screws used for steel framing. Attachment to furring channels - First layer - 1-1/4 in, long, 3, 6 and 18 inches from each board edge. Second layer - 1-7/8 in, long (2 in, with wood framing), spaced 12 inch OC with first fastener 2 in. from vertical board edge. Direct attachment to framing - First layer (to plates) – 1-1/4 in. long, 3, 6 and 18 inches from each board edge. First layer (to studs) – 1-1/4 in. long, 3, 6 and 18 inches board ends and 24 in. OC thereafter. Second

4. Batts and Blankets* — 3-1/2 in. thick mineral wool batts, placed to fill interior of wall, attached to the 4-in. face of the studs with staples placed 24 in. OC.

ROCKWOOL — Types Acoustical Fire Batts and AFB, min. density 1.69 pcf / 27.0 kg/m³

layer - 1-7/8 in. long, spaced 2 inch from each board edge and 12 in. OC thereafter.

ROCKWOOL MALAYSIA SDN BHD — Type Acoustical Fire Batts

ROCK WOOL MANUFACTURING CO — Type Delta Board

HERMAFIBER INC — Type SAFB, SAFB FF.

3B. Gypsum Board* — (As an alternate to Item 4) - 5/8 in. thick, 4 ft wide. Screw attached on one side of wall to furring channels with 1 in. long, self-drilling, self-tapping steel screws spaced 7 in. OC, vertical joints located midway between studs and back blocked with furring channels, attached with 1 in. long, self-drilling, self-tapping screws, spaced 7in. OC, along each edge. Gypsum board on opposite side of wall attached directly to studs with 1-7/8 in. nails or screws spaced 7 in .OC.

When Steel Framing Members* (Items 5 or any alternate clips) are used, wallboard attached to furring channels with 1 in. long Type S bugle-

When Item 6, resilient channels are used, 5/8 in. thick, 4 ft wide applied vertically. Screw attached furring channels with 1 in. long, self-drilling, self-

GEORGIA-PACIFIC GYPSUM L L C — Types 5, 6, 9, C, DAP, DD, DA, DAPC, DGG, DS, GPFS6, LS (finish rating 23 min), Type X, Veneer Plaster Base -

Type X, Water Rated - Type X, Sheathing - Type X, Soffit - Type X, TG-C, Type LWX, Veneer Plaster Base-Type LWX, Water Rated-Type LWX,

tapping Type S or S-12 steel screws spaced 8 in. OC, vertical joints located midway between studs.

CABOT MANUFACTURING ULC — Type X, 5/8 Type X, Type Blueglass Exterior Sheathing

CERTAINTEED GYPSUM INC — Type X-1, Types EGRG, GlasRoc, GlasRoc-2, Type C, Type LWTX

CERTAINTEED GYPSUM INC — Types LGFC6A, LGFC2A, LGFC-C/A, LGCF-WD, LGLLX, CLLX

AMERICAN GYPSUM CO — Types AGX-1, M-Glass, AG-C, LightRoc

BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO — Type DBX-1

PANEL REY S A — Type PRX2

4A. Glass Fiber Insulation — (As an alternate to Item 4) -3 in. thick glass fiber batts bearing the UL Classification Marking as to Surface Burning and/or Fire Resistance, friction-fitted to fill the interior of the wall. See Batts and Blankets (BKNV or BZJZ) Categories for names of Classified companies.

4B. Fiber, Sprayed* — As an alternate to Batts and Blankets (Item 4) — Spray applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product with a nominal dry density of 2.7 lb/ft³. Alternate Application Method: The fiber is applied without water or adhesive at a nominal dry density of 3.5 lb/ft³, in accordance with the application instructions supplied with the product.

Applegate Greenfiber Acquisition LLC — INS735, INS745, INS750LD, Insulmax, and SANCTUARY for use with wet or dry application. INS515LD, INS541LD, INS735, INS765LD and INS773LD are to be used for dry application only

4C. Fiber, Sprayed* — As an alternate to Items 4, 4A, and 4B — Spray applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. Nominal dry density of NU-WOOL CO INC — Cellulose Insulation

4D. Fiber, Sprayed* — As an alternate to Batts and Blankets (Item 4) — Spray applied cellulose fiber. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. The minimum dry density shall be 4.30 lbs/ft³. INTERNATIONAL CELLULOSE CORP — Celbar-RL

5. Joints and Screw Heads — Wallboard joints covered with paper tape and joint compound. Screw heads covered with joint compound. As an alternate, nom 3/32 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard with joints reinforced with paper tape.

6. Wall and Partition Facings and Accessories* — (Optional, Not Shown) — Nominal 1/2 in. thick, 4 ft wide panels, for optional use as an additional layer on one or both sides of the assembly. Panels attached in accordance with manufacturer's recommendations. When the QR-500 or QR-510 panel is installed between the wood framing and the UL Classified gypsum board, the required UL Classified gypsum board layer(s) is/are to be installed as indicated as to fastener type and spacing, except that the required fastener length shall be increased by a minimum of 1/2 in. Not evaluated or intended as a substitute for the required layer(s) of UL Classified PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock QR-500 and QR-510

7. Mineral and Fiber Board — (Optional, Not Shown) — 1/2 in. thick, 4 ft wide, square edge fiber boards applied vertically to studs on the side of the wood framing without the resilient channels, in between the wood framing and the UL Classified gypsum board (Item 3). Fiber boards installed with 1-1/4 in. long, Type W, bugle head, coarse thread gypsum board screws spaced 12 in. OC max, with the last screws spaced 2 in. and 6 in. from edge of board. Gypsum board (Item 3) installed horizontally or vertically and fastened through the fiber boards to wood framing with 2 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last screw 1 in. from edge of board. Gypsum board joints staggered from fiber board joints. Fiber boards not evaluated or intended as a substitute for the required layer of UL Classified Gypsum Board. BLUE RIDGE FIBERBOARD INC — SoundStop

tindicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively

UL Product **iQ**®

BXUV.U309 - Fire-resistance Ratings - ANSI/UL 263

Design/System/Construction/Assembly Usage Disclaimer

- · Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction. Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.

• When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction. Only products which bear UL's Mark are considered Certified.

Fire-resistance Ratings - ANSI/UL 263 BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada see General Information for Fire-resistance Ratings - ANSI/UL 263 Certified for United States Design Criteria and Allowable Variances See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

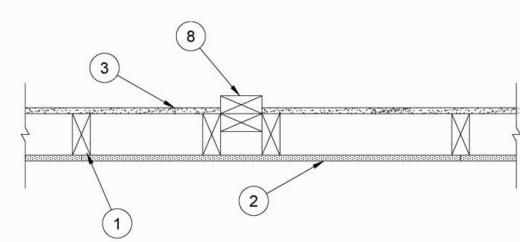
Design No. U305

December 01, 2022

Design Criteria and Allowable Variances

Bearing Wall Rating — 1 Hr. Finish Rating — See Items 2, 2A and 2B This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide <u>BXUV</u> or <u>BXUV7</u>

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



2. Gypsum Board* — 5/8 in. thick, 4 ft wide, applied either horizontally or vertically, nailed to studs and bearing plates with 6d cement coated nails min. 1-7/8 in. long, 0.0915 in. shank diam and 1/4 in. diam heads spaced 7 in. OC. Finish Rating 27 Min. When used in widths other than 48 in., gypsum board to be installed horizontally.

. Wood Studs — Nom 2 by 4 in., spaced 24 in. OC effectively firestopped.

CLARKDIETRICH BUILDING SYSTEMS — Type ClarkDietrich Sound Clip

Sheathing Type-LWX, Soffit-Type LWX, Type DGLW, Water Rated-Type DGLW, Sheathing Type- DGLW, Soffit-Type DGLW, Type LW2X, Veneer Plaster Base - Type LW2X, Water Rated - Type LW2X, Sheathing - Type LW2X, Soffit - Type LW2X, Type DGL2W, Water Rated - Type DGL2W, NATIONAL GYPSUM CO — Types -eXP-C, FSK, FSK-C, FSW, FSW-3, FSW-5, FSW-C, FSW-G, FSMR-C, FSW-6 (finish rating 20 min), FSL, FSW-8, RSX

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type C, PG-9, PG-11, PG-C, PGS-WRS, PGI

PANEL REY S A — Types GREX, GRIX, PRC, PRC2, PRX, RHX, MDX, ETX

SIAM GYPSUM INDUSTRY (SARABURI) CO LTD — Type EX-THAI GYPSUM PRODUCTS PCL — Type X, Type C

2A. Gypsum Board* — (As an alternate to Item 2, Not Shown) — Nominal 5/8 in. thick, 4 ft wide panels, applied vertically to studs and bearing plates on one side of the assembly with 1-5/8 in. long Type S screws spaced 12 in. OC at perimeter of panels and 8 in. OC in the field. Horizontal joints of vertically applied panels need not be backed by studs. Panel joints covered with paper tape and two layers of joint compound. Screwheads covered with two layers of joint compound. Batts and Blankets placed in stud cavity as described in Item 4E. Not evaluated for use with Steel Framing Members, Furring Channels or Fiber, Sprayed. PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock 530 (finish rating 23 min)

2B. Gypsum Board* — (As an alternate to Item 2) — 5/8 in. thick gypsum panels, with square edges, applied either horizontally or vertically. Gypsum panels fastened to framing with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last two screws 1 and 4 in. from edge of board or nailed to studs and bearing plates with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 1/4 in. diam heads spaced 7 in. OC. When used in widths of other than 48 in., gypsum boards are to be installed horizontally. **GEORGIA-PACIFIC GYPSUM L L C** — Type DGG, GreenGlass Type X (finish rating 23 min).

2C. Gypsum Board* — (As an alternate to Item 2) — 5/8 in. thick, 4 ft. wide, paper surfaced applied vertically only and secured as **GEORGIA-PACIFIC GYPSUM L L C** — Type X ComfortGuard Sound Deadening Gypsum Board (finish rating 27 min)

NATIONAL GYPSUM CO — Type SBWB

2D. Gypsum Board* — (As an alternate to Items 2 through 2C) — Nominal 5/8 in. thick, 4 ft wide panels, applied vertically and

2E. Gypsum Board* — (As an alternate to Item 2) — 5/8 in. thick, 4 ft. wide, paper surfaced applied vertically or horizontally and secured with 1-1/4 in. Type W coarse thread gypsum panel steel screws spaced a maximum of 12 in. OC. CERTAINTEED GYPSUM INC — Type SilentFX

2F. Gypsum Board* — (As an alternate to 5/8 in. Type FSW in Item 2) — 2 layers nom. 5/16 in. thick gypsum panels applied vertically or horizontally. Horizontal joints on the same side need not be staggered. Inner layer attached with fasteners, as described in item 2, spaced 24 in. OC. Outer layer attached per Item 2. NATIONAL GYPSUM CO — Type FSW

2G. Gypsum Board* — (As an alternate to Item 2) — 5/8 in. thick, 4 ft. wide, applied vertically or horizontally with vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Secured as described in Item 2 or 2K. **CERTAINTEED GYPSUM INC** — 5/8" Easi-Lite Type X

THAI GYPSUM PRODUCTS PCL — 5/8" Easi-Lite Type X

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock ES

2H. Wall and Partition Facings and Accessories* — (As an alternate to Item 2) — Nominal 5/8 in. thick, 4 ft wide panels, applied PABCO BUILDING PRODUCTS L L C. DBA PABCO GYPSUM — Type QuietRock 527.

21. **Gypsum Board*** — (As an alternate to Item 2) — 5/8 in. thick gypsum panels, with beveled, square, or tapered edges, applied either horizontally or vertically. Gypsum panels fastened to framing with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a maximum 10 in. OC with the last two screws 4 and 1 in. from the edges of the board. When used in widths other than CERTAINTEED GYPSUM INC — Type LGFC6A (finish rating 21 min), Type LGFC2A, Type LGFC-C/A, Type LGFC-WD, Type LGLLX

2J. Gypsum Board* — (As an alternate to Item 2) — 5/8 in. thick gypsum panels, with beveled, square, or tapered edges, applied either horizontally or vertically. Gypsum panels fastened to framing as described in Item 2 or with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last screw 1 in. from edge of board. When used in widths of other than 48 in., gypsum boards are to be installed horizontally. When square edge boards are used joint treatment, Item 3, may be omitted. AMERICAN GYPSUM CO — Types AGX-1, M-Glass, AG-C

NATIONAL GYPSUM CO — Type FSK, Type FSK-G, Type FSW, Type FSW-3, Type FSW-5, Type FSW-G, Type FSK-C, Type FSM-C, T

2K. Gypsum Board* — (As an alternate to Item 2) — 5/8 in. thick gypsum panels, with beveled, square, or tapered edges, applied either horizontally or vertically. Gypsum panels fastened to framing with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last screw 1/2 in. from edge of board. When used in widths of other than 48 in., gypsum boards CERTAINTEED GYPSUM INC — Type X-1, Types EGRG, GlasRoc, GlasRoc-2, Type C

3. Joints and Fastener Heads — Wallboard joints covered with paper tape and joint compound. Fastener heads covered with joint compound. Gypsum plaster not more than 1/8 in. thick may be applied over the wallboard in addition to the specified joint treatment. 4. Batts and Blankets* — (Not Shown) — Optional glass fiber insulation.

JOHNS MANVILLE

4A. Fiber, Sprayed* — As an alternate to Batts and Blankets (Item 4) — Spray applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product with a nominal dry density of 2.7 lb/ft³. Alternate Application Method: The fiber is applied without water or adhesive at a nominal dry density of 3.5 lb/ft3. in accordance with the application instructions supplied with the product. When Item 5 is used, Fiber, Sprayed shall be INS735, INS745, INS750LD, INS765LD, INS773LD or SANCTUARY.

Applegate Greenfiber Acquisition LLC — INS735, INS745, INS750LD and SANCTUARY for use with wet or dry application. INS515LD, INS541LD, INS735, INS745, INS765LD, Insulmax, and INS773LD are to be used for dry application only

4B. Fiber, Sprayed* — As an alternate to Batts and Blankets (Item 4) — Spray applied cellulose insulation material. The fiber is applied with water to interior surfaces in accordance with the application instructions supplied with the product. Applied to completely fill the enclosed cavity. Minimum dry density of 4.3 pounds per cubic ft. NU-WOOL CO INC — Cellulose Insulation

4C. Batts and Blankets* — Required for use with resilient channels, Item 6, 3 in. thick mineral wool batts, placed to fill interior of wall, attached to the 4 in. face of the studs with staples placed 24 in. OC. ROCKWOOL — Type SAFEnSOUND, min. 1.69 pcf.

THERMAFIBER INC — Type SAFB, SAFB FF

4D. Glass Fiber Insulation — (As an alternate to Item 4C) — 3 in, thick glass fiber batts bearing the UL Classification Marking as to Surface Burning and/or Fire Resistance, placed to fill the interior of the wall, attached to the 4 in. face of the studs with staples placed 24 in. OC. See **Batts and Blankets** (BKNV or BZJZ) Catagories for names of Classified companies.

4E. Batts and Blankets* — (Required for use with Wall and Partition Facings and Accessories, Item 2A) — Glass fiber insulation, nom 3-1/2 in. thick, min. density of 0.80 pcf, with a flame spread of 25 or less and a smoke developed of 50 or less, friction-fitted to completely fill the stud cavities. See Batts and Blankets Category (BKNV) for names of manufacturers. 4F. Fiber, Sprayed* — As an alternate to Batts and Blankets (Item 4) — Spray applied cellulose fiber. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. The minimum dry density

shall be 4.30 lbs/ft³. INTERNATIONAL CELLULOSE CORP — Celbar-RI 4G. Fiber, Sprayed* — As an alternate to Batts and Blankets (Item 4) — Spray-applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. To facilitate the installation of the material, any thin, woven or non-woven netting may be attached by any means possible to the outer face the studs.

The material shall reach equilibrium moisture content before the installation of materials on either face of the studs. The minimum dry

APPLEGATE HOLDINGS L L C — Applegate Advanced Stabilized Cellulose Insulation 5. Steel Framing Members* — (Optional, Not Shown) — Furring channels and Steel Framing Members as described below: a. Furring Channels — Formed of No. 25 MSG galv steel. 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in, and tied together with double strand of No. 18 SWG galy steel wire near each end of overlap. As an alternate, ends of adjoining channels may

with one screw on each flange of the channel. Wallboard attached to furring channels as described in Item 2. b. Steel Framing Members* — Used to attach furring channels (Item a) to studs (Item 1). Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center grommet. Furring channels are friction fitted into clips. RSIC-1 clip for use with 3-9/16 in. wide furring channels. RSIC-1 (2.75) clip for use with 2-23/32 in. wide furring channels.

be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap,

5A. Steel Framing Members* — (Optional, Not Shown, As an alternate to Item 5) — Furring channels and Steel Framing Members as a. Furring Channels — Formed of No. 25 MSG galv steel. 2-3/8 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in.

and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Gypsum board attached to furring channels as described in Item 2.

b. Steel Framing Members* — Used to attach furring channels (Item a) to studs. Clips spaced 48 in. OC. Genie clips secured to studs with No. 8 x 1-1/2 in, coarse drywall screw through the center hole. Furring channels are friction fitted into clips. PLITEQ INC — Type Genie Clip

described below:

pan-head self-drilling screw.

PAC INTERNATIONAL L L C — Type RC-1 Boost

described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels as described in Item 2. b. Steel Framing Members* — Used to attach furring channels (Item 5Ba) to studs. Clips spaced 48 in. OC., and secured to studs with 2 in, coarse drywall screw with 1 in, diam washer through the center hole. Furring channels are friction fitted into clips

5B. Steel Framing Members* — (Optional, Not Shown, As an alternate to Item 5) — Furring channels and Steel Framing Members as

a. Furring Channels — Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as

STUDCO BUILDING SYSTEMS — RESILMOUNT Sound Isolation Clips - Type A237R

steel wire. Gypsum board attached to furring channels as described in Item 3.

5C. Steel Framing Members* — (Optional, Not Shown, As an alternate to Item 5) — Furring channels and Steel Framing Members as a. Furring Channels — Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item 5Cb. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized

b. Steel Framing Members* — Used to attach furring channels (Item 5Ca) to studs. Clips spaced 48 in. OC, and secured to studs with No. 8×2 -1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips. 5D. Steel Framing Members* — (Optional, Not Shown, As an alternate to Item 5) — Resilient channels and Steel Framing Members

a. Resilient Channels — Formed of No. 25 MSG galv steel, spaced 24 in. OC, and perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and secured in place with two No. 8 15 x 1/2 in. Philips Modified Truss screws spaced 2-1/2 in. from the center of the overlap. Gypsum board attached to resilient channels as described in Item 3. b. Steel Framing Members* — Used to attach resilient channels (Item 5Da) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Resilient channels are secured to clips with one No. 10 x 1/2 in.

ENE BUILDING PRODUCTS CO INC — Type RC+ Assurance Clip 5E. Steel Framing Members* — (Optional, Not Shown, As an alternate to Item 5) — Used as an alternate method to attach resilient channels to wall studs. A resilient sound isolation accessory shall be used at each attachment point of the resilient channels and spaced max 24 in, O.C. Channel ends butted and centered under the structural members and attached with one accessory at each end. Additional accessories used to hold resilient channels that support the gypsum board end joints. The accessory envelops the mounting edge of the resilient channel. The accessory and resilient channel are fastened to the structural members with the screws

supplied with the accessory and per the accessory manufacturer's installation instructions.

5F Steel Framing Members* — (Optional, Not Shown, As an alternate to Item 5) — Furring channels and Steel Framing Members as a Furring Channels — Formed of No. 25 MSG galv steel. 2-23/32 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Gypsum board attached to furring channels as described in Item 3.

b Steel Framing Members* — Used to attach furring channels (Item 5Fa) to studs. Clips spaced maximum 48 in. OC. Clips secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center grommet. Furring channels are friction fitted into clips.

6. Furring Channel — Optional — Not Shown — For use on one side of the wall - Resilient channels, 25 MSG galv steel, spaced vertically 24 in. OC, flange portion screw attached to one side of studs with 1-1/4 in. long diamond shaped point, double lead Phillips head steel screws. When resilient channels are used, insulation, Items 4C or 4D is required.

7. Wall and Partition Facings and Accessories* — (Optional, Not Shown) — Nominal 1/2 in. thick, 4 ft wide panels, for optional use as an additional layer on one or both sides of the assembly. Panels attached in accordance with manufacturer's recommendations. When the QR-500 or QR-510 panel is installed between the wood framing and the UL Classified gypsum board, the required UL Classified gypsum board layer(s) is/are to be installed as indicated as to fastener type and spacing, except that the required fastener length shall be increased by a minimum of 1/2 in. Not evaluated or intended as a substitute for the required layer(s) of UL Classified

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock QR-500 and QR-510

8, Non-Bearing Wall Partition Intersection — (Optional) — Two nominal 2 by 4 in, stud or nominal 2 by 6 in, stud nailed together with two 3in, long 10d nails spaced a max, 16 in, OC, vertically and fastened to one side of the minimum 2 by 4 in, stud with 3 in, long 10d nails spaced a max 16 in. OC. vertically. Intersection between partition wood studs to be flush with the 2 by 4 in. studs. The wall partition wood studs are to be framed by with a second 2 by 4 in. wood stud fastened with 3 in. long 10d nails spaced a max. 16 in. OC. vertically. Maximum one non-bearing wall partition intersection per stud cavity. Non-bearing wall partition stud depth shall be at a minimum equal to the depth of the bearing wall.

9. Mineral and Fiber Board* — (Optional, Not Shown) — For optional use as an additional layer on one side of wall. Nom 1/2 in.

thick, 4 ft wide with long dimension parallel and centered over studs. Attached to framing with 2 in. long Type W steel screws, spaced

12 in. OC. The required UL Classified gypsum board layer(s) is/are to be installed as indicated as to fastener type and spacing, except

that the required fastener length shall be increased by a minimum of 1/2 in. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board. **HOMASOTE CO** — Homasote Type 440-32 9A. Mineral and Fiber Board* — (Optional, Not Shown) — For use with Items 9B-9E) — For optional use as an additional layer on one side of wall. Nom 1/2 in. thick, 4 ft wide with long dimension parallel and centered over studs. Attached to framing with minimum

1-3/8 in. long ring shanked nails or 1-1/4 in. long Type W steel screws, spaced 12 in. OC along board edges and 24 in. OC in field of board along intermediate framing. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board. **HOMASOTE CO** — Homasote Type 440-32 9B. Glass Fiber Insulation — (For use with Item 9A) — 3-1/2 in. thick glass fiber batts bearing the UL Classification Marking as to

Surface Burning and/or Fire Resistance, placed to fill the interior of the wall. See Batts and Blankets (BKNV or BZJZ) categories for names of Classified companies. 9C. Batts and Blankets* — (As an alternate to Item 9B, For use with Item 9A), 3 in. thick mineral wool batts, placed to fill interior of wall, attached to the 3-1/2 in. face of the studs with staples placed 24 in. OC.

THERMAFIBER INC — Type SAFB, SAFB FF

ROCKWOOL — Type SAFEnSOUND, min. 1.69 pcf.

9D. Adhesive — (For use with Item 9A) — Construction grade adhesive applied in vertical, serpentine, nominal 3/8 in. wide beads down the length of both vertical edges of Mineral and Fiber Board (Item 9A).

9E. Gypsum Board* — (For use with Item 9A) — 5/8 in. thick, 4 ft wide, applied vertically over Mineral and Fiber Board (Item 9A) with vertical joints located anywhere over stud cavities. Secured to mineral and fiber boards with 1-1/2 in. Type G Screws spaced 8 in. OC along edges of each vertical joint and 12 in. OC in intermediate field of the Mineral and Fiber Board (Item 9A), Secured to outermost studs and bearing plates with 2 in. long Type S screws spaced 8 in. OC. Gypsum Board joints covered with paper tape and joint compound. Screw heads covered with joint compound. Finish Rating 30 Min.

AMERICAN GYPSUM CO — Type AG-C

CERTAINTEED GYPSUM INC — Type FRPC, Type C

NATIONAL GYPSUM CO — Types FSK-C, FSW-C

CGC INC — Types C, IP-X2, IPC-AR CERTAINTEED GYPSUM INC — Type LGFC-C/A

GEORGIA-PACIFIC GYPSUM L L C — Types 5, DAPC, TG-C

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type PG-C. PANEL REY S A — Types PRC, PRC2

THAI GYPSUM PRODUCTS PCL — Type C UNITED STATES GYPSUM CO — Types C, IP-X2, IPC-AR

BLUE RIDGE FIBERBOARD INC — SoundStop

substitute for the required layer(s) of UL Classified Gypsum Board.

USG MEXICO S A DE C V — Types C, IP-X2, IPC-AR 9F. Mineral and Fiber Board — (Optional, Not Shown) — For optional use as an additional layer on one side of wall - Nom 1/2 in. thick, 4 ft wide, square edge fiber boards applied vertically to studs on one side of the wall in between the wood studs and the UL Classified Gypsum Board (Item 2). Fiber boards installed with 1-1/4 in. long, Type W, bugle head, coarse thread gypsum board screws spaced 12 in. OC max, with the last screws spaced 2 in. and 6 in. from edge of board. Gypsum board (Item 2) installed as indicated as to fastener type and spacing, except that the required fastener length shall be increased by a minimum of 1/2 in. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board.

10. Wall and Partition Facings and Accessories* — (CLBV) (Optional, Not Shown) — For use with Item 1, Item 2, Item 3, Items 4, and Item 6. For maximum fire rating of 1 hour. On one side of the wall, over the first layer of Gypsum Board (Item 2), install RefleXor membrane with the gold side facing outwards. Membrane installed with T50 staples spaced 12 inches on center in both directions as per manufacturer's instructions, seams in membrane to be overlapped by 2 inches. When RefleXor membrane is used an additional layer of Gypsum Board that is identical to the first layer and as specified in Item 2 shall be installed over the membrane. Additional layer of Gypsum Board to be installed through the membrane to the stud as specified in Item 2 except the fastener length shall be

increased by a minimum of 5/8 inch. Install Batts and Blankets in the stud cavity as per Item 4. On the other side of the wall prior to the installation of the Gypsum Board install Resilient Channels as per Item 6. Over the Resilient Channel install 3/4 inch thick SONOpan panel secured to the Resilient Channel with min. 1-1/4 in. long drywall screws and washers spaced at 16 in. OC on the perimeter of the panel and 8 in. OC in the field of the panel. Over the SONOpan panel install the same Gypsum Board as specified in Item 2 with the fastener length increased by minimum 3/4 inch. Not evaluated or intended as a

Alternately, on the other side of the wall prior to the installation of the Gypsum Board (Item 2), install 3/4 in. thick SONOpan panels, secured to one side of studs either horizontally or vertically. Panels secured to each stud with min. 1-1/4 in. long drywall screws spaced 12 in. OC. Over the SONOpan, install 25 MSG galv, steel, Resilient Channels, spaced vertically 24 in, OC, Resilient Channels fastened through panels to each stud with min, 2 in, long drywall screws or self-tapping screws. Over the Resilient Channels install Gypsum Board as specified in Item 2 with drywall screws as specified in Item 2. Panels not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board. MSL — RefleXor membrane, SONOpan panel

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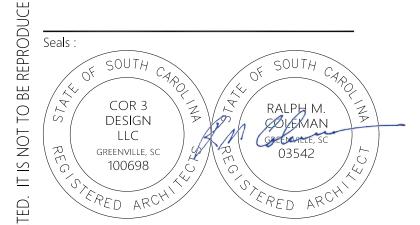
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870 Cleveland St, STE 1D Greenville, SC 29601 864.271.6535 **MECHANICAL**

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864.583.6274



10.16.2024 Issue For Permit 03.20.2025 100% Issue For Hilton

Project Number 23112

Phase:

CD Drawn By:

Design/System/Construction/Assembly Usage Disclaimer

- · Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials. Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction. • Only products which bear UL's Mark are considered Certified.

BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada See General Information for Fire-resistance Ratings - ANSI/UL 263 Certified for United States

Fire-resistance Ratings - ANSI/UL 263

Design No. **U305**

See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada Design Criteria and Allowable Variances

February 3, 2023

Bearing Wall Rating — 1 Hr Finish Rating — See Items 3, 3A, 3D, 3E, 3F, 3G, 3H, 3J and 3L. STC Rating - 56 (See Item 9)

This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide BXUV or BXUV7

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

1. Wood Studs — Nom 2 by 4 in. spaced 16 in. OC max, effectively firestopped

2. Joints and Nail-Heads — Joints covered with joint compound and paper tape. Joint compound and paper tape may be omitted when square edge boards are used. As an alternate, nom 3/32 in, thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard with the joints reinforced with paper tape. Nailheads exposed or covered with joint compound.

3. Gypsum Board* — 5/8 in, thick paper or vinyl surfaced, with beyeled, square, or tapered edges, applied either horizontally or vertically, Gypsum panels nailed 7 in, OC with 6d cement coated nails 1-7/8 in, long, 0.0915 in, shank diam and 15/64 in, diam heads. When used in widths other than 48 in., gypsum panels are to be installed horizontally. For an alternate method of attachment of gypsum panels, refer to Items 6 through 6F, Steel Framing Members*. When Items 6, 6B, 6C, 6D, 6E, or 6F, Steel Framing Members*, are used, gypsum panels attached to furring channels with 1 in. long Type S buglehead steel screws spaced 12 in. OC.

channels with 1 in. long Type S bugle-head steel screws spaced 12 in. OC. Face layer attached to furring channels with 1-5/8 in. long Type S bugle head steel screws spaced 12 in. OC. All joints in face layers staggered with joints in base layers. One layer of gypsum board attached to opposite side of wood stud without furring channels as described in Item 3 When Item 7, resilient channels are used, 5/8 in. thick, 4 ft wide gypsum panels applied vertically. Screw attached furring channels with 1 in. long, self-drilling, self-tapping Type S or S-12 steel screws spaced 8 in. OC, vertical joints located midway between stude

AMERICAN GYPSUM CO — Types AGX-1(finish rating 23 min.), M-Glass (finish rating 23 min.), Type AGX-11 (finish rating 26 min), Type AGX-12

When Item 6A, Steel Framing Members*, is used, two layers of gypsum panels attached to furring channels. Base layer attached to furring

BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO — Type DBX-1 (finish rating 24 min)

(finish rating 22 min), Type LightRoc (finish rating 23 min.) or Type AG-C

CABOT MANUFACTURING ULC — Type X (finish rating 22 min), 5/8 Type X, Moisture Resistant Type X, Gypsum Sheathing Type X, Mold & Mildew Resistant Type X and Mold & Mildew Resistant AR Type X, Type Blueglass Exterior Sheathing

CERTAINTEED GYPSUM INC — Type C, Type X-1 (finish rating 26 min); Type EGRG or GlasRoc (finish rating 23 min), GlasRoc-2, Type Habito (finish rating 26 min), Type LWTX (finish rating 18 min), Type LGFC6A (finish rating 34 min), Type LGFC2A, Type LGFC-C/A, Type LGFC-WD, Type LGLLX (finish rating 21 min), Type CLLX (finish rating 24 min)

CGC INC — Type AR (finish rating 24 min), Type C (finish rating 24 min), Type IP-AR (finish rating 24 min), Type IPC-AR (finish rating 24 min), Type IP-X1 (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SCX (finish rating 24 min), Type SHX (finish rating 24 min), Type ULX (finish rating 22 min), Type WRC (finish rating 24 min), Type WRX (finish rating 24 min), Type ULIX (finish rating 20 min)

GEORGIA-PACIFIC GYPSUM L L C — Type 5 (finish rating 26 min), Type 6 (finish rating 23 min), Type 9 (finish rating 26 min), Type C (finish rating 26 min), Type DGG (finish rating 20 min), Type GPFS1 (finish rating 20 min), Type GPFS2 (finish rating 20 min), Type GPFS4 (finish rating 20 min), Type GPFS Type DS, Type DAP, Type DD (finish rating 20 min), Type DA, Type DAPC, Type LS (finish rating 23 min), Type X, Veneer Plaster Base - Type X, Water Rated - Type X, Sheathing - Type X, Soffit - Type X, Type LWX (finish rating 22 min), Veneer Plaster Base-Type LWX (finish rating 22 min), Water Rated-Type LWX (finish rating 22 min), Sheathing Type-LWX (finish rating 22 min), Soffit-Type LWX (finish rating 22 min), Type DGLW (finish rating 22 min), Water Rated-Type DGLW (finish rating 22 min), Sheathing Type- DGLW (finish rating 22 min), Soffit-Type DGLW (finish rating 22 min), Type LWX (finish rating 22 min), Type LW2X (finish rating 22 min), Veneer Plaster Base - Type LW2X (finish rating 22 min), Water Rated - Type LW2X (finish rating 22 min), Sheathing - Type LW2X (finish rating 22 min), Soffit - Type LW2X (finish rating 22 min), Type DGL2W (finish rating 22 min), Water Rated - Type DGL2W (finish rating 22 min), Sheathing - Type DGL2W (finish rating 22 min)

NATIONAL GYPSUM CO — Type FSK (finish rating 20 min), Type FSK-G (finish rating 20 min), Type FSW (finish rating 20 min), Type FSW-2 (finish rating 24 min), Type FSW-3 (finish rating 20 min), Type FSW-5 (finish rating 22 min), Type FSW-G (finish rating 20 min), Type FSK-C (finish rating 20 min), Type FSW-C (finish rating 20 min), Type FSMR-C, Type FSW-6 (finish rating 20 min), Type FSL (finish rating 24 min), Type FSW-8, Type FSLX (finish rating 21 min), Type RSX (finish rating 26 min).

NATIONAL GYPSUM CO — Riyadh, Saudi Arabia — Type FR, or WR.

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Types C, PG-2 (finish rating 20 min), PG-3 (finish rating 20 min), Types PG-3W, PG-5W (finish rating 20 min), Type PG-4 (finish rating 20 min), Type PG-6 (finish rating 23 min), Types PG-3WS, PG-5WS, PGS-WRS (finish rating 20 min), Types PG-5, PG-9 (finish rating 26 min), PG-11 PG-13 (Nails increased to 2 in.), Type PG-C or PGI (finish rating 26 min)

PANEL REY S A — Type ARX, GREX, GRIX, PRX, PRC, PRC2; Types RHX, Guard Rey, MDX, ETX (finish rating 22 min), PRX2 (finish rating 21 min)

THAI GYPSUM PRODUCTS PCL — Type C, Type X (finish rating 26 min)

SIAM GYPSUM INDUSTRY (SARABURI) CO LTD — Type EX-1 (finish rating 26 min)

(finish rating 24 min), Type IPC-AR (finish rating 24 min), Type ULX (finish rating 22 min)

UNITED STATES GYPSUM CO — Type AR (finish rating 24 min), Type C (finish rating 24 min), Type FRX-G (finish rating 29 min), Type IP-AR (finish rating 24 min), Type IPC-AR (finish rating 24 min), Type IP-X1 (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SHX (finish rating 24 min), Type IP-X2 (finish rating 24 min), T min), Type SCX (finish rating 24 min), Type SGX (finish rating 24 min), Type ULX (finish rating 22 min), Type WRX (finish rating 24 min), Type WRX (finish rating 24 min), Type ULIX (finish rating 20 min)

USG BORAL DRYWALL SFZ LLC — Type SGX (finish rating 24 min).

USG MEXICO S A DE C V — Type AR (finish rating 24 min), Type C (finish rating 24 min), Type WRX (fi 24 min), Type IP-X1 (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SHX (finish rating 24 min), SCX (finish rating 24 min), Type IP-AR

3A. Gypsum Board* — (As an alternate to Item 3) — 5/8 in. thick gypsum panels, with beveled, square, or tapered edges, applied either horizontally or vertically. Gypsum panels fastened to framing with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last screw 1 in. from edge of board. When used in widths of other than 48 in., gypsum boards are

AMERICAN GYPSUM CO — Types AGX-1 (finish rating 25 min.), M-Glass (finish rating 25 min.), AG-C (finish rating 25 min.), LighttRoc (finish

CERTAINTEED GYPSUM INC — Type C, Type X-1 (finish rating 26 min), Type EGRG or GlasRoc, LWTX.

CGC INC — Type AR (finish rating 24 min), Type C (finish rating 24 min), Type IP-AR (finish rating 24 min), Type IP-AR (finish rating 24 min), Type IP-X1 (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SCX (finish rating 24 min), Type SHX (finish rating 24 min), Type WRC (finish rating 24 min), Type WRX (finish rating 24 min)

NATIONAL GYPSUM CO — Type FSW (finish rating 24 min)

UNITED STATES GYPSUM CO — Type AR (finish rating 24 min), Type SCX (finish rating 24 min), Type SGX (finish rating 24 min), Type C (finish rating 24 min), Type WRX (finish rating 24 min), Type WRC (finish rating 24 min), Type IP-X1 (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SHX (finish rating 24 min), Type FRX-G (finish rating 24 min), Type IP-AR (finish rating 24 min), Type IPC-AR (finish rating 24 min)

USG BORAL DRYWALL SFZ LLC — Types C, SCX, SGX (finish rating 24 min).

USG MEXICO S A DE C V — Type AR (finish rating 24 min), Type C (finish rating 24 min), Type WRX (fi 24 min), Type IP-X1 (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SHX (finish rating 24 min), Type SCX, Type IP-AR (finish rating 24 min), min), Type IPC-AR (finish rating 24 min)

3B. Gypsum Board* — (As an alternate to Item 3) — Nom 3/4 in. thick, installed with 1-7/8 in. long cement coated nails as described in Item 3 or 1-3/8 in. long Type W coarse thread gypsum panel steel screws as described in Item 3A. CGC INC — Types AR, IP-AR

UNITED STATES GYPSUM CO — Types AR, IP-AR

USG MEXICO S A DE C V — Types AR, IP-AR

3C. Gypsum Board* — (As an alternate to Items 3, 3A and 3B) — 5/8 in. thick, 2 ft wide, tongue and groove edge, applied horizontally to one side of the assembly. Installed with 1-7/8 in. long cement coated nails as described in Item 3 or 1-1/4 in. long Type W coarse thread gypsum panel steel screws as described in Item 3A. Joint covering (Item 2) not required.

UNITED STATES GYPSUM CO — Type SHX

USG MEXICO S A DE C V — Type SHX

3D. Gypsum Board* — (As an alternate to Items 3, 3A, 3B, or 3C — Not Shown) — For Direct Application to Studs Only- Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-5/8 in. long Type W coarse thread gypsum panel steel screws spaced 8 in. OC at perimeter and in the field. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 1-1/2 in. wide, max 10 ft long with a max thickness of 0.125 in. placed on the face of studs and attached to the stud with two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs or tabs may be used in lieu of or in addition to the lead batten strips or optional at other locations. Max 3/4 in, diam by max 0.125 in, thick lead discs compression fitted or adhered over steel screw heads or max 1/2 in. by 1-1/4 in. by max 0.125 in. thick lead tabs placed on gypsum boards underneath screw locations prior to the installation of the screws. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". RAY-BAR ENGINEERING CORP — Type RB-LBG (finish rating 24 min)

3E. Gypsum Board* — (As an alternate to Items 3, 3A, 3B, 3C, and 3D) — 5/8 in, thick gypsum panels, with square edges, applied either horizontally or vertically. Gypsum panels fastened to framing with 1-1/4 in, long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last 2 screws 1 and 4 in. from edge of board or nailed 7 in. OC with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads. When used in widths of other than 48 in., gypsum boards are to be installed GEORGIA-PACIFIC GYPSUM L L C — Type DGG (finish rating 20 min), GreenGlass Type X (finish rating 23 min)

3F. Gypsum Board* — (As an alternate to Items 3, 3A, 3B, 3C, 3D, and 3E) — 5/8 in. glass-mat faced with square edges, applied either horizontally or vertically. Gypsum panels nailed 7 in, OC around the perimeter and in the field with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads. Nails shall be placed 1 inch and 3 inch from horizontal joints and 7 inch OC **CGC INC** — Type USGX (finish rating 22 min)

UNITED STATES GYPSUM CO — Type USGX (finish rating 22 min.)

USG BORAL DRYWALL SFZ LLC —, Type USGX (finish rating 22 min.)

USG MEXICO S A DE C V — Type USGX (finish rating 22 min.) 3G. Gypsum Board* — (As an alternate to Items 3 through 3F) — 5/8 in. thick paper surfaced applied vertically. Gypsum panels nailed 7 in, OC with 6d cement coated nails 1-7/8 in, long, 0.0915 in, shank diam and 15/64 in, diam heads.

GEORGIA-PACIFIC GYPSUM L L C — Type X ComfortGuard Sound Deadening Gypsum Board (finish rating 27 min) 3H. Gypsum Board* — (As an alternate to Items 3) — Not to be used with items 6 or 7.5/8 in. thick paper surfaced applied vertically

only. Gypsum panels nailed 7 in. OC with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads. NATIONAL GYPSUM CO — Type SBWB

31. Gypsum Board* — (As an alternate to Items 3 through 3H, Not Shown) — Nominal 5/8 in. thick, 4 ft wide panels, applied vertically. Panels nailed 7 in. OC with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads. Panel joints covered with paper tape and two layers of joint compound. Nailheads covered with two layers of joint compound.

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock ES (finish rating 20 min) 3J. Gypsum Board* — (As an alternate to Item 3) — 5/8 in. thick paper surfaced applied vertically or horizontally. Gypsum panels secured with 1-1/4 in. Type W coarse thread gypsum panel steel screws spaced a maximum of 12 in. OC.

CERTAINTEED GYPSUM INC — Type SilentFX 3K. **Gypsum Board*** — (As an alternate to Item 3) — 5/8 in. thick gypsum panels, with beveled, square, or tapered edges, applied either horizontally or vertically. Gypsum panels fastened to framing with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a maximum 8 in. OC with the last screw 1 in. from the edge of the board. When used in widths other than 48 in.,

gypsum panels are to be installed horizontally. NATIONAL GYPSUM CO — Type FSK (finish rating 20 min), Type FSK-G (finish rating 20 min), Type FSW (finish rating 20 min), Type FSW-2 (finish rating 24 min), Type FSW-3 (finish rating 20 min), Type FSW-5 (finish rating 22 min), Type FSW-G (finish rating 20 min), Type FSK-C (finish rating 20 min), Type FSW-C (finish rating 20 min), Type FSMR-C, Type FSW-6 (finish rating 20 min), Type FSL (finish rating 24 min). 3L. Gypsum Board* — (As an alternate to Item 3) — For Direct Application to Studs Only — Nom 5/8 in. thick lead backed gypsum

panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-5/8 in. long Type W coarse thread gypsum panel steel screws spaced 8 in. OC at perimeter and in the field. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in, wide, max 10 ft long with a max thickness of 0.140 in, placed on the face of studs and attached to the stud with two 1 in. long Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, max 5/16 in. diam by max 0.140 in. thick. compression fitted or adhered over the screw heads. Lead batten strips to have a purity of 99.5% meeting the Federal specification QQ-L-201f, Grades "B, C or D". MAYCO INDUSTRIES INC — "X-Ray Shielded Gypsum"

3M. Gypsum Board* — (As an alternate to Items 3) — For Direct Application to Studs Only — For use as the base layer or as the face layer. Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-5/8 in. long Type W coarse thread gypsum panel steel screws spaced 8 in. OC at perimeter and in the field when applied as the base layer. When applied as the

face layer screw length to be increased to 2-1/2 in. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 8 ft long with a max thickness of 0.14 in. placed on the face of studs and attached to the stud with construction adhesive and two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, nominal 3/8 in. diam by max 0.085 in. thick. Compression fitted or adhered over the screw heads. Lead batten strips and discs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Fasteners for face layer gypsum panels (Items 4, 4A or 4B) when installed over lead backed board to be min 2-1/2 in. Type S-12 bugle head steel screws spaced as described in Item 4. RADIATION PROTECTION PRODUCTS INC — Type RPP - Lead Lined Drywal

3N. Gypsum Board* — (As an alternate to Item 3) — 5/8 in. thick, 4 ft. wide, applied horizontally or vertically with vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Secured as described in Item 3 or 3A.

ERTAINTEED GYPSUM INC — Easi-Lite Type X (finish rating 24 min), Easi-Lite Type X-2 (finish rating 24 min)

30. Wall and Partition Facings and Accessories* — (As an alternate to Item 3, Not Shown) — Nominal 5/8 in. thick, 4 ft wide panels, applied vertically. Panels nailed 7 in. OC with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads. Panel joints covered with paper tape and two layers of joint compound. Nailheads covered with two layers of joint compound. PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock 527 (finish rating 24 min).

3P. Gypsum Board* — (As an alternate to Item 3, Not Shown) — Two layers nom. 5/16 in. thick gypsum panels applied vertically or horizontally. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered or backed by wood studs. Horizontal joints on the same side between face and base layers need not be staggered. Base layer gypsum panels fastened to studs with 1-1/4 in. long drywall nails spaced 8 in. OC. Face layer gypsum panels fastened to studs with 1-7/8 in. long drywall nails spaced 8 in. OC starting with a 4" stagger. NATIONAL GYPSUM CO — Type FSW (finish rating 25 min)

3Q. Gypsum Board* — (As an alternate to Item 3) — 5/8 in. thick gypsum panels, with beveled, square, or tapered edges, applied either horizontally or vertically. Gypsum panels fastened to framing with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a maximum 10 in. OC with the last two screws 4 and 1 in. from the edges of the board. When used in widths other than 48 in., gypsum panels are to be installed horizontally

CERTAINTEED GYPSUM INC — Type LGFC6A (finish rating 21 min), Type LGFC2A, Type LGFC-C/A, Type LGFC-WD, Type LGLLX 3R. Gypsum Board* — (As an alternate to Item 3. For use with Item 5H) — Any 5/8 in, thick, 4 ft, wide, Gypsum Board listed in Item 3 above. Applied either horizontally or vertically, and screwed to panels with 1-5/8 in. long Type W coarse thread steel screws at 8 in. OC at perimeter and in the field with the last two screws 4 and 3/4 in. from the edges of the board when applied as the base layer. When used in widths other than 48 in., gypsum panels are to be installed horizontally.

3S. **Gypsum Board*** — 3/4 in. thick paper or vinyl surfaced, with beveled, square, or tapered edges, applied either horizontally or vertically. Gypsum panels secured as described in Item 3 with nail length increased to 2 in.

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type PG-13 3T. Wall and Partition Facings and Accessories* — (As an alternate to 5/8 in. thick board as outlined in Item 3) — Nominal 1-3/8 in. thick, 4 ft wide panels, applied vertically or horizontally. Fastened with #6 x 2 in. long drywall screws spaced 8 in. OC along the perimeter and 12 in. OC in the field.

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock 545 3U. **Gypsum Board*** — (As an alternate to Item 3 - For use with Foamed Plastic products, Item 5J) — 5/8 in. thick, 4 ft. wide, applied vertically with vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Gypsum panels nailed 7 in. OC with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads. AMERICAN GYPSUM CO — Types AGX-1

BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO — Type DBX-1

CABOT MANUFACTURING ULC — Type X CERTAINTEED GYPSUM INC — Type X

HOMASOTE CO — Homasote Type 440-32

AMERICAN GYPSUM CO — Type AG-C

CGC INC — Type SCX

PANEL REY S A — Type ARX, PRX

SIAM GYPSUM INDUSTRY (SARABURI) CO LTD — Type EX-1

THAI GYPSUM PRODUCTS PCL — Type X

USG MEXICO S A DE C V — Type SCX

USG BORAL DRYWALL SFZ LLC — Types SCX and SGX

3V. Gypsum Board* — (As an alternate to Item 3. For use with Item 5K) — Any 5/8 in. thick, 4 ft. wide, Gypsum Board listed in Item 3 above. Applied vertically with vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Gypsum panels secured to studs with 1-5/8 in. long Type W coarse thread gypsum panel steel screws spaced 8 in. OC at perimeter and in the

3W. Gypsum Board* — (As an alternate to Item 3. For use with Item 5L) — Anv 5/8 in, thick. 4 ft. wide. Gypsum Board listed in Item 3 above Applied vertically with vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Gypsum panels secured to studs with 1-1/4 in, long Type W screws spaced 8 in, OC at perimeter and in the field.

4. Steel Corner Fasteners — (Optional) — For use at wall corners. Channel shaped, 2 in. long by 1 in. high on the back side with two 1/8 in, wide cleats protruding into the 5/8 in, wide channel, fabricated from 24 gauge galv steel. Fasteners applied only to the end or cut edge (not along tapered edges) of the gypsum board, no greater than 2 in. from corner of gypsum board, max spacing 16 in. OC. Nailed to adjacent stud through tab using one No. 6d cement coated nail per fastener. Corners of wall board shall be nailed to top

5. Batts and Blankets* — (Optional — Required when Item 6A is used (RC-1)) — Glass fiber or mineral wool insulation. Placed to completely or partially fill the stud cavities. When Item 6A is used, glass fiber or mineral wool insulation shall be friction-fitted to completely fill the stud cavities.

JOHNS MANVILLE

KNAUF INSULATION LLC

MANSON INSULATION IN **ROCKWOOL** — Types Acoustical Fire Batts and Type AFB, min. density 1.69 pcf / 27.0 kg/m³

ROCKWOOL MALAYSIA SDN BHD — Type Acoustical Fire Batts

ROCK WOOL MANUFACTURING CO — Delta Board

and bottom plate using No. 6d cement coated nails.

THERMAFIBER INC — Type SAFB, SAFB FF

5A. Fiber, Sprayed* — (Not Shown — Not for use with Item 6) — As an alternate to Batts and Blankets (Item 5) — Spray applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product with a nominal dry density of 2.7 lb/ft³. Alternate Application Method: The fiber is applied without water or adhesive at a nominal dry density of 3.5 lb/ft³. in accordance with the application instructions supplied with the product. When Item 6B is used, Fiber, Sprayed shall be INS735, INS745, INS750LD, INS765LD, INS773LD or SANCTUARY.

Applegate Greenfiber Acquisition LLC — INS735, INS745, INS750LD, Insulmax, and SANCTUARY for use with wet or dry application. INS515LD,

INS541LD, INS735, INS765LD, and INS773LD are to be used for dry application only 5B. Fiber, Sprayed* — (Not Shown - Not for use with Item 6) — As an alternate to Batts and Blankets (Item 5) - Spray applied

5C. Batts and Blankets* — Required for use with resilient channels, Item 7, 3 in. thick mineral wool batts, friction-fitted to fill interior THERMAFIBER INC — Type SAFB, SAFB FF

AMERICAN ROCKWOOL MANUFACTURING, LLC — Type Rockwool Premium Plus 5G. Fiber, Sprayed* — (Optional, Not Shown — Not for use with Items 6, 6A, 6B, 6C, or 6D). — As an alternate to Batts and Blankets (Item 5) and Item 5A - Brown Colored Spray applied cellulose fiber. The fiber is applied with water to completely fill the enclosed stud

5H. Foamed Plastic* — (Optional -For use with Item 3R) — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity. SES FOAM INC — Nexseal™ 2.0 or Nexseal™ 2.0 LE Spray Foam and Sucraseal Spray Foam.

means possible to the outer face the studs. The material shall reach equilibrium moisture content before the installation of materials on either face of the studs. The minimum dry density shall be 5.79 lbs/ft³. **APPLEGATE HOLDINGS L L C** — Applegate Advanced Stabilized Cellulose Insulation 5J. Foamed Plastic* — (Optional, Not Shown - For use with Item 3U) — Spray applied, foamed plastic insulation, at any thickness

GACO WESTERN L L C — Types GacoEZSpray F4500, GacoProFill FR6500R, Gaco 052N, GacoOnePass F1850, GacoOnePass Low GWP F1880, and Gaco WallFoam 183M

5L. Foamed Plastic* - (Optional, Not Shown - For use with Item 3W) - Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity.

BASF CORP - Types Enertite® NM, Enertite® G, FE178®, Spraytite® 178, Spraytite® 81206, Walltite® 200, Walltite® US, Walltite® US-N, Walltite® HP+, Spraytite® Comfort XL, and Walltite® XL.

b. Steel Framing Members* — Used to attach furring channels (Item 6a) to studs. Clips spaced 48 in. OC. RSIC-1 and RSIC-1 (2.75) RSIC-V clips for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) and RSIC-V (2.75) clips for use with 2-23/32 in. wide furring

6A. Steel Framing Members* — (Optional, Not Shown) — Furring channels and Steel Framing Members on one side of studs as a. Furring Channels — Formed of No. 25 MSG galv steel, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in, and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. Batts and Blankets placed in stud cavity as described in Item 5. Two layers of gypsum board attached to furring channels as described in Item 3.

friction fitted into clips. KINETICS NOISE CONTROL INC — Type Isomax 6B. Steel Framing Members* — (Optional, Not Shown) — Furring channels and Steel Framing Members as described below: a. Furring Channels — Formed of No. 25 MSG galv steel, 2-3/8 in, wide by 7/8 in, deep, spaced 24 in, OC perpendicular to studs,

each flange of the channel. Gypsum board attached to furring channels as described in Item 3. b. Steel Framing Members* — Used to attach furring channels (Item 6Ba) to studs. Clips spaced 48 in. OC. Genie clips secured to studs with No. 8 x 1-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips.

6C. Steel Framing Members* — (Optional, Not Shown) — Furring channels and Steel Framing Members as described below: a. Furring Channels — Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in, and tied together with double strand of No. 18 AWG galvanized steel

wire. Gypsum board attached to furring channels as described in Item 3.

No. 2 in. coarse drywall screw with 1 in. diam washer through the center hole. Furring channels are friction fitted into clips. STUDCO BUILDING SYSTEMS — RESILMOUNT Sound Isolation Clips - Type A237 or A237R

6D. Steel Framing Members* — (Optional, Not Shown) — Furring channels and Steel Framing Members as described below: a. Furring Channels — Formed of No. 25 MSG galv steel, spaced 24 in. OC, and perpendicular to studs. Channels secured to studs as " described in Item b. Ends of adjoining channels overlapped 6 in. and secured in place with a double strand of No. 18 AWG twisted steel wire. Gypsum board attached to furring channels as described in Item 3.

b. Steel Framing Members* — Used to attach furring channels (Item 6Da) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips.

REGUPOL AMERICA — Type SonusClip

6E. Steel Framing Members* — (Optional, Not Shown) — Resilient channels and Steel Framing Members as described below: a, Resilient Channels — Formed of No. 25 MSG galv steel, spaced 24 in, OC, and perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and secured in place with two No. 8 15 x 1/2 in. Philips Modified Truss screws spaced 2-1/2 in. from the center of the overlap. Gypsum board attached to resilient channels as described in Item 3.

b. Steel Framing Members* — Used to attach resilient channels (Item 6Ea) to studs. Clips spaced 48 in, OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Resilient channels are secured to clips with one No. 10 x 1/2 in. pan-head self-drilling screw. **KEENE BUILDING PRODUCTS CO INC** - Type RC+ Assurance Clip

6F. Steel Framing Members* — (Optional, Not Shown) — Furring channels and Steel Framing Members as described below: a, Furring Channels — Formed of No. 25 MSG galv steel, 2-23/32 in, wide by 7/8 in, deep, spaced 24 in, OC perpendicular to studs, Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Gypsum board attached to furring channels as described in Item 3.

b. Steel Framing Members* — Used to attach furring channels (Item 6Fa) to studs. Clips spaced 48 in. OC. Clips secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center grommet. Furring channels are friction fitted into clips. **CLARKDIETRICH BUILDING SYSTEMS** — Type ClarkDietrich Sound Clip

6G. Steel Framing Members* — (Optional, Not Shown) — Used as an alternate method to attach resilient channels to wall studs. A resilient sound isolation accessory shall be used at each attachment point of the resilient channels and spaced max 16 in. O.C. Channel ends butted and centered under the structural members and attached with one accessory at each end. Additional accessories used to hold resilient channels that support the gypsum board end joints. The accessory envelops the mounting edge of the resilient channel. The accessory and resilient channel are fastened to the structural members with the screws supplied with the accessory and per the accessory manufacturer's installation instructions.

vertically 24 in. OC, flange portion screw attached to one side of studs with 1-1/4 in. long diamond shaped point, double lead Phillips head steel screws. When resilient channels are used, insulation, Items 5C or 5D is required.

8. Caulking and Sealants — (Not Shown, Optional) — A bead of acoustical sealant applied around the partition perimeter for sound

9. STC Rating — The STC Rating of the wall assembly is 56 when it is constructed as described by Items 1 through 6, except:

insulation batts measuring 6-1/4 in. thick and 15-1/4 in. wide.

alternatives for obtaining STC rating.

C. Item 5, above — Batts and Blankets* The cavities formed by the studs shall be friction fit with R-19 unfaced fiberglass

D. Item 6, above — Steel Framing Members* Type RSIC-1 clips shall be used to attach gypsum board to studs on either side of

F. Steel Corner Fasteners (Item 4), Fiber, Sprayed (Items 5A and 5B) and Steel Framing Members (Item 6A), not evaluated as

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Consultants: STRUCTURAL Taylor and Viola Structural Engineers PO Box 2616 Hickory, NC 28603

828.328.6331 PLUMBING LWI Consulting Engineers 870 Cleveland St, STE 1D

Greenville, SC 29601 864.271.6535 MECHANICAL LWI Consulting Engineers 870 Cleveland St, STE 1D

ELECTRICAL Matrix Engineering, INC 912 S Pine Street Spartanburg, SC 29302 864.583.6274

Greenville, SC 29601 864.271.6535

03.20.2025 100% Issue For Hilton

10.16.2024 Issue For Permit

Project Number 23112 Phase: CD 04.22.2024 Drawn By:

UL CUT SHEETS

10. Wall and Partition Facings and Accessories* — (Optional, Not Shown) — Nominal 1/2 in. thick, 4 ft wide panels, for optional use as an additional layer on one or both sides of the assembly. Panels attached in accordance with manufacturer's recommendations. When the QR-500 or QR-510 panel is installed between the wood framing and the UL Classified gypsum board, the required UL Classified gypsum board layer(s) is/are to be installed as indicated as to fastener type and spacing, except that the required fastener length shall be increased by a minimum of 1/2 in. Not evaluated or intended as a substitute for the required layer(s) of UL Classified

11. Cementitious Backer Units* — (Optional Item Not Shown — For Use On Face Of 1 Hr Systems With All Standard Items Required)

- 7/16 in., 1/2 in., 5/8 in., 3/4 in. or 1 in. thick, min. 32 in. wide. Applied vertically or horizontally with vertical joints centered over studs Fastened to studs and runners with cement board screws of adequate length to penetrate stud by a minimum of 3/8 in. for steel

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock QR-500 and QR-510

framing members, and a minimum of 3/4 in. for wood framing members spaced a max of 8 in. OC. When 4 ft. wide boards are used, horizontal joints need not be backed by framing. NATIONAL GYPSUM CO — Type DuraBacker, PermaBase, DuraBacker Plus, or PermaBase Plus 12. Non-Bearing Wall Partition Intersection — (Optional) —Two nominal 2 by 4 in. studs or nominal 2 by 6 in. studs nailed together with two 3 in. long 10d nails spaced a max. 16 in. OC. vertically and fastened to one side of the minimum 2 by 4 in. stud with 3 in. long 10d nails spaced a max. 16 in. OC. vertically. Intersection between partition wood studs to be flush with the 2 by 4 in. studs. The wall partition wood studs are to be framed by with a second 2 by 4 in. wood stud fastened with 3 in. long 10d nails spaced a max. 16 in.

OC. vertically. Maximum one non-bearing wall partition intersection per stud cavity. Non-bearing wall partition stud depth shall be at a minimum equal to the depth of the bearing wall. 13. Mesh Netting — (Not Shown) — Any thin, woven or non-woven fibrous netting material attached with staples to the outer face of

one row of studs to facilitate the installation of the sprayed fiber from the opposite row. 14. Mineral and Fiber Board* — (Optional, Not Shown) — For optional use as an additional layer on one side of wall. Nom 1/2 in. thick, 4 ft wide with long dimension parallel and centered over studs. Attached to framing with 2 in, long Type W steel screws, spaced 12 in. OC. The required UL Classified gypsum board layer(s) is/are to be installed as indicated as to fastener type and spacing, except that the required fastener length shall be increased by a minimum of 1/2 in. Not evaluated or intended as a substitute for the required

14A. Mineral and Fiber Board* — (Optional, Not Shown) — For use with Items 14B-14E) — For optional use as an additional layer on

14B. Glass Fiber Insulation — (For use with Item 14A) — 3-1/2 in. thick glass fiber batts bearing the UL Classification Marking as to

one side of wall. Nom 1/2 in. thick, 4 ft wide with long dimension parallel and centered over studs. Attached to framing with minimum 1-3/8 in. long ring shanked nails or 1-1/4 in. long Type W steel screws, spaced 12 in. OC along board edges and 24 in. OC in field of board along intermediate framing. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board. OMASOTE CO — Homasote Type 440-32

Surface Burning and/or Fire Resistance, placed to fill the interior of the wall. See Batts and Blankets (BKNV or BZJZ) categories for 14C. Batts and Blankets* — (As an alternate to Item 14B, For use with Item 14A), 3 in. thick mineral wool batts, placed to fill interior of wall, attached to the 3-1/2 in. face of the studs with staples placed 24 in. OC.

14D. **Adhesive** — (For use with Item 14A) — Construction grade adhesive applied in vertical, serpentine, nominal 3/8 in. wide beads down the length of both vertical edges of Mineral and Fiber Board (Item 14A). 14E. Gypsum Board* — (For use with Item 14A) — 5/8 in. thick, 4 ft wide, applied vertically over Mineral and Fiber Board (Item 14A) with vertical joints located anywhere over stud cavities. Secured to mineral and fiber boards with 1-1/2 in. Type G Screws spaced 8 in. OC along edges of each vertical joint and 12 in. OC in intermediate field of the Mineral and Fiber Board (Item 14A). Secured to outermost studs and bearing plates with 2 in. long Type S screws spaced 8 in. OC. Gypsum Board joints covered with paper tape and

joint compound. Screw heads covered with joint compound. Finish Rating 30 Min.

CGC INC — Types C, IP-X2, IPC-AR

CERTAINTEED GYPSUM INC — Type LGFC-C/A

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type PG-C

THAI GYPSUM PRODUCTS PCL — Type C

USG BORAL DRYWALL SFZ LLC — Type C

NATIONAL GYPSUM CO - Type PBC

framing by a minimum of of 3/4 in., spaced a max 8 in. o.c.

intended as a substitute for the required layer(s) of UL Classified Gypsum Board.

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively. Last Updated on 2023-02-03

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GEORGIA-PACIFIC GYPSUM L L C — Types 5, DAPC, TG-C

PANEL REY S A — Type PRC

NATIONAL GYPSUM CO — Types FSK-C, FSW-C

UNITED STATES GYPSUM CO — Types C, IP-X2, IPC-AR

USG MEXICO S A DE C V — Types C, IP-X2, IPC-AR 14F. Mineral and Fiber Board — (Optional, Not Shown) — For optional use as an additional layer on one side of wall - Nom 1/2 in. thick, 4 ft wide, square edge fiber boards applied vertically to studs on one side of the wall in between the wood studs and the UL Classified Gypsum Board (Item 3). Fiber boards installed with 1-1/4 in. long, Type W, bugle head, coarse thread gypsum board screws spaced 12 in. OC max, with the last screws spaced 2 in. and 6 in. from edge of board. Gypsum board (Item 3) installed as indicated as to fastener type and spacing, except that the required fastener length shall be increased by a minimum of 1/2 in. Not evaluated or

BLUE RIDGE FIBERBOARD INC — SoundStop 14G. Building Units - (Optional Item Not Shown - For use over Gypsum Board, Item 3) 1 in., 2 in. or 3 in. thick, 4 ft. wide - Applied vertically or horizontally with vertical joints centered over studs. Fastened to studs and runners with wafer head screws of adequate length to penetrate

Assemblies, Constructions, Designs, Systems, and/or Certifications (files) must be presented in their entirety and in a non-misleading manner, without any manipulation of the data (or drawings). 2. The statement "Reprinted from Product iQ with permission from UL Solutions" must appear cellulose insulation material. The fiber is applied with water to interior surfaces in accordance with the application instructions supplied with the product. Applied to completely fill the enclosed cavity. Minimum dry density of 4.3 pounds per cubic ft. **NU-WOOL CO INC** — Cellulose Insulation

5D. Glass Fiber Insulation — (As an alternate to Item 5C) — 3 in. thick glass fiber batts bearing the UL Classification Marking as to Surface Burning and/or Fire Resistance, friction-fitted to fill the interior of the wall. See Batts and Blankets (BKNV or BZJZ) Categories

5E. Batts and Blankets* — (Required for use with Wall and Partition Facings and Accessories, Item 3D) — Glass fiber insulation, nom 3-1/2 in. thick, min. density of 0.80 pcf, with a flame spread of 25 or less and a smoke developed of 50 or less, friction-fitted to completely fill the stud cavities. See Batts and Blankets Category (BKNV) for names of manufacturers. 5F. Fiber, Sprayed* — (Optional, Not Shown — Not for use with Items 6, 6A, 6B, 6C, or 6D) — As an alternate to Batts and Blankets (Item 5) and Item 5A - Spray applied granulated mineral fiber material. The fiber is applied with adhesive, at a minimum density of 4.0

cavity in accordance with the application instructions supplied with the product. The minimum dry density shall be 4.30 lbs/ft³. INTERNATIONAL CELLULOSE CORP — Celbar-RL

pcf, to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. See Fiber,

cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. To facilitate the installation of the material, any thin, woven or non-woven netting may be attached by any

51. Fiber, Sprayed* — (Not Shown — Not for use with Item 6) — As an alternate to Batts and Blankets (Item 5) - Spray-applied

5K. Foamed Plastic* — (Optional, Not Shown - For use with Item 3V) — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity. CARLISLE SPRAY FOAM INSULATION — Types SealTite Pro Closed Cell (CC), SealTite Pro Open Cell (OC), SealTite Pro OCX, SealTite Pro No Trim

21, SealTite Pro One Zero, Foamsulate Closed Cell, Foamsulate OCX, Foamsulate 70, and Foamsulate HFO.

from partial fill to completely filling stud cavity.

6. Steel Framing Members* — (Optional, Not Shown) — Furring channels and Steel Framing Members as described below: a. Furring Channels — Formed of No. 25 MSG galv steel. 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in, and tied together with double strand of No. 18 SWG galy steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in, and secured together with two self-tapping #6 framing screws, min, 7/16 in, long at the midpoint of the overlap, with one screw on each flange of the channel. Gypsum board attached to furring channels as described in Item 3.

clips secured to studs with No. $8 \times 2-1/2$ in. coarse drywall screw through the center grommet. RSIC-V and RSIC-V (2.75) clips secured to studs with No. 8 x 1-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips. RSIC-1 and PAC INTERNATIONAL L L C — Types RSIC-1, RSIC-V, RSIC-1 (2.75), RSIC-V (2.75)

b. Steel Framing Members* — Used to attach furring channels (Item 6Aa) to one side of studs only. Clips spaced 48 in. OC., and

secured to studs with two No. 8 x 2-1/2 in. coarse drywall screws, one through the hole at each end of the clip. Furring channels are

Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on

b. Steel Framing Members* — Used to attach furring channels (Item 6Ca) to studs. Clips spaced 48 in. OC., and secured to studs with

PAC INTERNATIONAL L L C — Type RC-1 Boost 7. Furring Channel — Optional — Not Shown — For use on one side of the wall - Resilient channels, 25 MSG galv steel, spaced

A. Item 2, above — Nailheads Shall be covered with joint compound. B. Item 2, above — Joints As described, shall be covered with fiber tape and joint compound.

E. Item 8, above — Caulking and Sealants (Not Shown) A bead of acoustical sealant shall be applied around the partition

BXUV.U301 - Fire-resistance Ratings - ANSI/UL 263

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- · Authorities Having Jurisdiction should be consulted before construction • Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance
- encountered in the field. • When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials

and alternate methods of construction · Only products which bear UL's Mark are considered Certified.

BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for

Design No. **U301**

used — See Guide BXUV or BXUV7

Fire-resistance Ratings - ANSI/UL 263

BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United

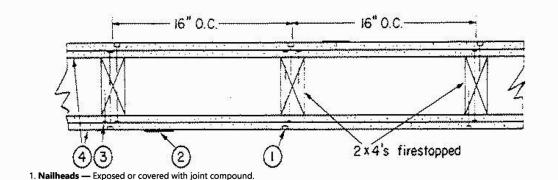
See General Information for Fire-resistance Ratings - ANSI/UL 263 Certified for United States

Design Criteria and Allowable Variances See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada Design Criteria and Allowable Variances

February 3, 2023

Bearing Wall Rating — 2 Hr. Finish Rating — 66 Min. This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



2. Joints — Exposed joints covered with joint compound and paper tape. Joint compound and paper tape may be omitted whe square edge boards are used. As an alternate, nom 3/32 in, thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard with the joints reinforced with paper tape.

3. Nails — 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam, 1/4 in. diam heads, and 8d cement coated nails 2-3/8 in. long, 0.113 in. shank diam, 9/32 in. diam heads.

4. Gypsum Board* — 5/8 in. thick, two layers applied either horizontally or vertically. Inner layer attached to studs with the 1-7/8 in. nails spaced 6 in. OC. Outer layer attached to studs over inner layer with the 2-3/8 in. long nails spaced 8 in. OC. Vertical joints located over studs. All joints in face layers staggered with joints in base layers. Joints of each base layer offset with joints of base layer on When used in widths other than 48 in., gypsum board to be installed horizontally.

When Steel Framing Members* (Item 6 or any alternate clips) are used, base layer attached to furring channels with 1 in, long Type S bugle-head steel screws spaced max 24 in. OC; face layer attached with 1-5/8 in. long Type S bugle-head steel screws spaced max 12 in. OC. AMERICAN GYPSUM CO — Types AGX-1, M-Glass, AG-C, AGX-11, LightRoc

BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO — Type DBX-1

CABOT MANUFACTURING ULC — Type X, 5/8 Type X, Moisture Resistant Type X, Gypsum Sheathing Type X, Mold & Mildew Resistant Type X and Mold & Mildew Resistant AR Type X, Type Blueglass Exterior Sheathing

CERTAINTEED GYPSUM INC — Types EGRG, GlasRoc, GlasRoc-2, Type C, Type X-1, Type LWTX

CGC INC — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULIX, ULX, USGX, WRC, WRX CERTAINTEED GYPSUM INC — Types LGFC2A, LGFC6A, LGFC-C/A, LGFC-WD, LGLLX, CLLX

NATIONAL GYPSUM CO — Riyadh, Saudi Arabia — Type FR, or WR.

GEORGIA-PACIFIC GYPSUM L L C — Types 5, 6, 9, C, DAP, DD, DA, DAPC, DGG, DS, GPFS6. LS, TG-C, Type X, Veneer Plaster Base-Type X, Water Rated-Type X, Sheathing Type-X, Soffit-Type X, GreenGlass Type X, Type LWX, Veneer Plaster Base-Type LWX, Water Rated-Type LWX, Sheathing Type-LWX, Soffit-Type LWX, Type DGLW, Water Rated-Type DGLW, Sheathing Type- DGLW, Soffit-Type DGLW, Type LW2X, Veneer Plaster Base -Type LW2X, Water Rated - Type LW2X, Sheathing - Type LW2X, Soffit - Type LW2X, Type DGL2W, Water Rated - Type DGL2W, Sheathing - Type

NATIONAL GYPSUM CO — Types eXP-C, FSK, FSK-C, FSK-G, FSW, FSW-3, FSW-5, FSW-6, FSW-8, FSW-C, FSW-G, FSMR-C, FSL, RSX

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Types C, PG-2, PG-3, PG-3W, PG-4, PG-5, PG-5W, PG-5WS, PG-9, PG-11, PG-C,

PANEL REY S A — Types PRC, PRC2, PRX, RHX, MDX, ETX, GREX, GRIX

SIAM GYPSUM INDUSTRY (SARABURI) CO LTD — Type EX-1 THAI GYPSUM PRODUCTS PCL — Type C or Type X

UNITED STATES GYPSUM CO — Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULIX, ULX, USGX, WRC, WRX

USG BORAL DRYWALL SFZ LLC — Types C, SCX, USGX

USG MEXICO S A DE C V — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

4A. **Gypsum Board*** — (As an alternate to Item 4) — Nom 3/4 in. thick, installed as described in Item 4.

USG MEXICO S A DE C V — Types AR, IP-AR

UNITED STATES GYPSUM CO — Types AR, IP-AR

4B. Gypsum Board* — (As an alternate to Items 4 and 4A) — 5/8 in. thick, 2 ft wide, tongue and groove edge, applied horizontally as the outer layer to one side of the assembly. Secured as described in Item 4. Joint covering (Item 2) not required CGC INC — Type SHX

UNITED STATES GYPSUM CO — Type SHX

USG MEXICO S A DE C V — Type SHX

4C. **Gypsum Board*** — (As an alternate to Items 4, 4A or 4B — Not Shown) — For Direct Application to Studs Only- For use on one or both sides of the wall as the base layer or one or both sides of the wall as the face layer. Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-5/8 in. long Type W coarse thread gypsum panel steel screws spaced 8 in. OC at perimeter and in the field when applied as the base layer. When applied as the face layer screw length to be increased to 2-1/2 in. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 1-1/2 in. wide, max 10 ft long with a max thickness of 0.125 in. placed on the face of studs and attached to the stud with two 1 in. long Type S-12 pan head steel screws, F4j.one at the top of the strip and one at the bottom of the strip. Lead discs or tabs may be used in lieu of or in addition to the lead batten strips or optional at other locations. Max 3/4 in. diam by max 0.125 in. thick lead discs compression fitted or adhered over steel screw heads or max 1/2 in, by 1-1/4 in, by max 0.125 in, thick lead tabs placed on gypsum boards underneath screw locations prior to the installation of the screws. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Fasteners for face layer gypsum panels (Items 4, 4A or 4B) when installed over lead backed board to be min 2-1/2 in. Type S-12 bugle head steel screws spaced as described in Item 4. RAY-BAR ENGINEERING CORP — Type RB-LBG.

4D. Gypsum Board* — As an Alternate to Item 4 — 5/8 in, thick applied either horizontally or vertically. Inner layers fastened to framing with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last screw 1 in. from edge of board. Outer layers fastened to framing with 1-7/8 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last screw 1 in. from edge of board. When used in widths other than 48 in., gypsum board to be installed horizontally. All joints in face layers staggered with joints in base layers. Joints of each base layer offset with joints of base layer on opposite side. **AMERICAN GYPSUM CO** — Types AGX-1, M-Glass, AG-C, LightRoc

4E. Gypsum Board* — (As an alternate to Items 4 through 4D) — 5/8 in. thick, 4 ft. wide, paper surfaced applied vertically and secured as described in Item 4. **GEORGIA-PACIFIC GYPSUM L L C** — Type X ComfortGuard Sound Deadening Gypsum Board

4F. Gypsum Board* — (As an alternate to Item 4) — Not to be used with item 6, 6A, 6B or 6C. 5/8 in. thick, 4 ft. wide, paper surfaced, applied vertically and secured as described in Item 4. NATIONAL GYPSUM CO — Type SBWB

4G. Gypsum Board * — (As an alternate to Items 4 through 4F) — Nominal 5/8 in. thick, 4 ft wide panels, applied vertically and secured as described in Item 4. PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Types QuietRock ES

4H. Gypsum Board* — (As an alternate to Item 4) — Not to be used with item 6, 6A, 6B, or 6C. 5/8 in. thick, 4 ft. wide, paper surfaced, applied vertically or horizontally and secured as described in Item 4. CERTAINTEED GYPSUM INC — Type SilentFX

4l. Gypsum Board* — (As an alternate to item 4) — 5/8 in. thick, two layers applied either horizontally or vertically. Inner layer attached to studs with 1-1/4 in. long Type W steel screws spaced 8 in. OC. Outer layer attached to studs over inner layer with 2 in. long Type W steel screws spaced 8 in. OC offset 6 in. from base layer. Vertical joints located over studs. Vertical and horizontal joints between inner and outer layers staggered. Outer layer joints covered with joint tape and compound, screwheads covered with joint compound. As an alternate to the joint compound nom 3/32 in, thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard. Joints reinforced, Wallboard other than 48 in, wide must be applied horizontally. The SoundBreak XP Type X Gypsum Board is not to be used with Item 6, 6A, 6B, or 6C. NATIONAL GYPSUM CO — Types eXP-C, FSK, FSK-C, FSK-G, FSW, FSW-3, FSW-5, FSW-6, FSW-C, FSW-G, FSMR-C, SBWB

4J. **Gypsum Board*** — (As an alternate to Items 4) — For Direct Application to Studs Only- For use as the base layer or as the face layer. Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-5/8 in, long Type W coarse thread gypsum panel steel screws spaced 8 in. OC at perimeter and in the field when applied as the base layer. When applied as the face layer screw length to be increased to 2-1/2 in. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 10 ft long with a max thickness of 0.140 in. placed on the face of studs and attached to the stud with two 1 in. long Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, max 5/16 in, diam by max 0.140 in, thick, compression fitted or adhered over the screw heads. Lead batten strips and discs to have a purity of 99.5% meeting the Federal specification QQ-L-201f, Grades "B, C or D". Fasteners for face layer gypsum panels (Items 4, 4A or 4B) when installed over lead backed board to be min 2-1/2 in. Type S-12 bugle head steel screws spaced as described in Item 4. MAYCO INDUSTRIES INC — "X-Ray Shielded Gypsum"

4K. Gypsum Board* — For use with Item 7 — 5/8 in. thick, two layers applied vertically. Inner layer attached to resilient channels with 1 in. long steel screws spaced 8 in. OC. Outer layer attached to resilient channels over inner layer with 1-5/8 in. long steel screws spaced 8 in. OC. All joints in face layers staggered with joints in base layers. Joints of each base layer offset with joints of base layer on opposite side. Insulation, Items 8 or 9 is required. MERICAN GYPSUM CO — Types AGX-1, M-Glass, AG-C, AGX-11

NATIONAL GYPSUM CO — Types eXP-C, FSK, FSK-C, FSK-G, FSW, FSW-3, FSW-5, FSW-6, FSW-C, FSW-G, FSMR-C, SBWB.

4L. Gypsum Board* — (As an alternate to Items 4) — For Direct Application to Studs Only- For use as the base layer or as the face layer. Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-5/8 in. long Type W coarse hread gypsum panel steel screws spaced 8 in. OC at perimeter and in the field when applied as the base layer. When applied as the face layer screw length to be increased to 2-1/2 in. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 8 ft long with a max thickness of 0.14 in. placed on the face of studs and attached to the stud with construction adhesive and two 1 in, long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, nominal 3/8 in. diam by max 0.085 in. thick. compression fitted or adhered over the screw heads. Lead batten strips and discs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Fasteners for face layer gypsum panels (Items 4, 4A or 4B) when installed over lead backed board to be min 2-1/2 in. Type

RADIATION PROTECTION PRODUCTS INC — Type RPP - Lead Lined Drywall

4M. Gypsum Board* — (As an alternate to Item 4) — 5/8 in. thick, 4 ft. wide, two layers applied vertically with vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Secured as described in Item 4. CERTAINTEED GYPSUM INC — 5/8" Easi-Lite Type X

4N. Gypsum Board* — (As an alternate to 5/8 in. Type FSW in Items 4 or 4l) — Nom. 5/16 in. thick gypsum panels applied vertically or horizontally. Two layers of 5/16 in. for every single layer of 5/8 in. gypsum board described in Item 4 or 4I. Horizontal joints on the same side need not be staggered. Inner layer of each double 5/16 in. layer attached with fasteners, as described in item 4 or 4I, spaced 24 in. OC. Outer layer of each double 5/16 in. layer attached per Item 4 or 4I. NATIONAL GYPSUM CO — Type FSW

4O. Wall and Partition Facings and Accessories* — (As an alternate to Items 4 through 4N) — Nominal 5/8 in. thick, 4 ft wide panels, applied vertically and secured as described in Item 4. PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock 527

4P. Gypsum Board* — (As an alternate to Item 4) — 5/8 in. thick, two layers applied either horizontally or vertically. Inner layer attached to studs with 1-1/4 in. long Type W steel screws spaced 10 in. OC with the last two screws 4 and 1 in. from the edges of the board. Outer layer attached to studs over inner layer with 1-7/8 in. long Type W steel screws spaced 10 in. OC offset 5 in. from base layer with the last two screws 4 and 1 in, from the edges of the board. Vertical joints located over studs. Vertical and horizontal joints between inner and outer layers staggered. Outer layer joints covered with joint tape and compound, screwheads covered with joint compound. When used in widths other than 48 in., gypsum panels are to be installed horizontally. CERTAINTEED GYPSUM INC — Type LGFC6A, Type LGFC2A, Type LGFC-C/A, Type LGFC-WD, Type LGLLX

4Q. Gypsum Board* — (As an alternate to Item 4. For use with Item 13) — Any 5/8 in. thick, 4 ft. wide, Gypsum Board UL Classified for Fire Resistance (CKNX) eligible for use in Design Nos. U305 and L501 or G512. Two layers, applied either horizontally or vertically, and screwed to studs with 1-5/8 in. long Type W coarse thread steel screws at 8 in. OC at perimeter and in the field with the last two screws 4 and 3/4 in, from the edges of the board when applied as the base layer. For the face layer, screw length to be increased to 2-1/2 in. All joints in face layers staggered with joints in base layers. When used in widths other than 48 in., gypsum panels are to be installed horizontally.

framing with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last screw 1 in. from edge of board. Outer layers fastened to framing with 1-7/8 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last screw 1 in. from edge of board. When used in widths other than 48 in., gypsum board to be installed horizontally. All joints in face layers staggered with joints in base layers. Joints of each base layer offset with joints of base layer on opposite side. CERTAINTEED GYPSUM INC — Types EGRG, GlasRoc, GlasRoc-2, Type C, Type X-1, Easi-Lite Type X, SilentFX

4R. **Gypsum Board*** — As an Alternate to Item 4 — 5/8 in, thick applied either horizontally or vertically, Inner layers fastened to

4S. Gypsum Board* — (As an alternate to Item 4. For use with Item 13A) — 5/8 in. thick, two layers applied vertically. Inner layer attached to studs with the 1-7/8 in. nails spaced 6 in. OC. Outer layer attached to studs over inner layer with the 2-3/8 in. long nails spaced 8 in. OC. Vertical joints located over studs. All joints in face layers staggered with joints in base layers. Joints of each base layer offset with joints of base layer on opposite side. AMERICAN GYPSUM CO — Types AGX-1

13A. Foamed Plastic* — (Optional, Not Shown - For use with Item 4S) — Spray applied, foamed plastic insulation, at any thickness

GACO WESTERN L L C — Types GacoEZSpray F4500, GacoProFill FR6500R, Gaco 052N, GacoOnePass F1850, GacoOnePass Low GWP F1880, and

13B. Foamed Plastic* — (Optional, Not Shown - For use with Item 4T) — Spray applied, foamed plastic insulation, at any thickness

21, SealTite Pro One Zero, Foamsulate Closed Cell, Foamsulate OCX, Foamsulate 70, and Foamsulate HFO.

HUNTER PANELS, A DIVISION OF CARLISLE CONSTRUCTION MATERIALS, LLC — "Xci NB", "Xci Ply"

CARLISLE SPRAY FOAM INSULATION — Types SealTite Pro Closed Cell (CC), SealTite Pro Open Cell (OC), SealTite Pro OCX, SealTite Pro No Trim

13C. Foamed Plastic* - (Optional, Not Shown - For use with Item 4U) - Spray applied, foamed plastic insulation, at any thickness from partial fill

14. Foamed Plastic* — (Optional, Not Shown - For use over Gypsum Board, Item 4) - Polyisocyanurate foamed plastic boards, any thickness applied vertically with vertical joints located over studs. May be used with Molded Plastic, Item 5 or any exterior facing, as authorized by the Authority Having Jurisdiction and installed in accordance with the manufacturer's installation instructions. HUNTER PANELS, A DIVISION OF CARLISLE CONSTRUCTION MATERIALS, LLC — "Xci Class A", "Xci 286", "Xci Foil (Class A)", "Xci CG", "Xci

15. Building Units* — (Optional, Not Shown - For use over Gypsum Board, Item 4) Polyisocyanurate composite foamed plastic boards, any thickness, applied vertically with vertical joints located over studs. May be used with Molded Plastic, Item 5 or any exterior facing, as authorized by the Authority Having Jurisdiction and installed in accordance with the manufacturer's installation instructions.

16. Building Units - (Optional Item Not Shown - For use over Gypsum Board, Item 4) 1 in., 2 in. or 3 in. thick, 4 ft. wide - Applied vertically or horizontally with vertical joints centered over studs. Fastened to studs and runners with wafer head screws of adequate length to penetrate

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

BASF CORP – Types Enertite® NM, Enertite® G, FE178®, Spraytite® 178, Spraytite® 81206, Walltite® 200, Walltite® US , Walltite® US-N,

BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO — Type DBX-1

SIAM GYPSUM INDUSTRY (SARABURI) CO LTD — Type EX-1

from partial fill to completely filling stud cavity.

from partial fill to completely filling stud cavity.

Walltite® HP+, Spraytite® Comfort XL, and Walltite® XL

framing by a minimum of of 3/4 in., spaced a max 8 in. o.c.

CABOT MANUFACTURING ULC — "5/8 Type X"

Gaco WallFoam 183M.

to completely filling stud cavity.

THAI GYPSUM PRODUCTS PCL — Type X

UNITED STATES GYPSUM CO — Type SCX

USG BORAL DRYWALL SFZ LLC — Types SCX

USG MEXICO S A DE C V — Type SCX

GENTEK BUILDING PRODUCTS LTD

4T. Gypsum Board* — (As an alternate to Item 4. For use with Item 13B) — Any 5/8 in. thick, 4 ft. wide, Gypsum Board listed in Item 4 above. Two layers applied vertically with vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. All joints in outer layers staggered with joints in inner layers. Inner layer attached to studs with 1-5/8 in. long Type W coarse thread gypsum panel steel screws spaced 8 in. OC at perimeter and in the field. Outer layer attached to studs over inner layer with the 2-1/2 in. long Type W coarse thread gypsum panel steel screws spaced 8 in. OC.

4U. Gypsum Board* — (As an alternate to Item 4. For use with Item 13C) — Any 5/8 in. thick, 4 ft. wide, Gypsum Board listed in Item 4 above. Two layers applied vertically with vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. All joints in outer layers staggered with joints in inner layers. Inner layer attached to studs with 1-1/4 in. long Type W screws spaced 8 in. OC at perimeter and in the field. Outer layer attached to studs over inner layer with 1-7/8 in. long Type W screws spaced 8 in. OC.

5. **Molded Plastic*** — Not Shown, Optional — Solid vinyl siding mechanically secured over the outer layer to framing members in accordance with manufacturer's recommended installation details. ALSIDE, DIV OF ASSOCIATED MATERIALS INC

VYTEC CORP

6. Steel Framing Members* — (Optional, Not Shown) — Furring channels and Steel Framing Members as described below: A. Furring Channels — Formed of No. 25 MSG galv steel, 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in, and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Wallboard attached to furring channels as described in Item 4.

B. Steel Framing Members* — Used to attach furring channels (Item 6a) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8×2 -1/2 in. coarse drywall screw through the center grommet. Furring channels are friction fitted into clips. RSIC-1 clip for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) clip for use with 2-23/32 in. wide furring channels. PAC INTERNATIONAL L C — Types RSIC-1, RSIC-1 (2.75)

6A. Steel Framing Members* — (Optional, Not Shown, As an alternate to Item 6) — Furring channels and Steel Framing Members as A. Furring Channels — Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels as described in Item 4.

B. Steel Framing Members* — Used to attach furring channels (Item 6Aa) to studs. Clips spaced 48 in. OC., and secured to studs with 2 in. coarse drywall screw with 1 in. diam washer through the center hole. Furring channels are friction fitted into clips. STUDCO BUILDING SYSTEMS — RESILMOUNT Sound Isolation Clips - Type A237R

6B. Steel Framing Members* — (Optional, Not Shown, As an alternate to Item 6) — Furring channels and Steel Framing Members as described below: A. Furring Channels — Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item 6Bb. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels as described in Item 4.

B. Steel Framing Members* — Used to attach furring channels (Item 6Ba) to studs. Clips spaced 48 in. OC., and secured to studs with 2-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips. **REGUPOL AMERICA** — Type SonusClip

6C. Steel Framing Members* — (Optional, Not Shown, As an alternate to Item 6) —Resilient channels and Steel Framing Members as described below: a. Resilient Channels — Formed of No. 25 MSG galv steel, spaced 24 in. OC, and perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and secured in place with two No. 8 15 x 1/2 in. Philips Modified Truss screws spaced 2-1/2 in, from the center of the overlap, Gypsum board attached to resilient channels as described in Item 4.

b. Steel Framing Members* — Used to attach resilient channels (Item 6Ca) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Resilient channels are secured to clips with one No. 10 x 1/2 in. pan-head self-drilling screw. KEENE BUILDING PRODUCTS CO INC — Type RC+ Assurance Clip

6D. Steel Framing Members* — (Optional, Not Shown, As an alternate to Item 6) — Used as an alternate method to attach resilient channels to wall studs. A resilient sound isolation accessory shall be used at each attachment point of the resilient channels and spaced max 24 in, O.C. Channel ends butted and centered under the structural members and attached with one accessory at each end. Additional accessories used to hold resilient channels that support the gypsum board end joints. The accessory envelops the mounting edge of the resilient channel. The accessory and resilient channel are fastened to the structural members with the screws supplied with the accessory and per the accessory manufacturer's installation instructions. PAC INTERNATIONAL L L C — Type RC-1 Boost

6E Steel Framing Members* — (Optional, Not Shown, As an alternate to Item 6) — Furring channels and Steel Framing Members as a Furring Channels — Formed of No. 25 MSG galv steel. 2-23/32 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Gypsum board attached to furring channels as described in Item 4.

b Steel Framing Members* — Used to attach furring channels (Item 6Ea) to studs. Clips spaced maximum 48 in. OC. Clips secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center grommet. Furring channels are friction fitted into clips.

CLARKDIETRICH BUILDING SYSTEMS — Type ClarkDietrich Sound Clip

7. Furring Channel — Optional — Not Shown — For use on one side of the wall with Item 4K — Resilient channels, 25 MSG galv steel, spaced vertically 24 in. OC, flange portion screw attached to one side of studs with 1-1/4 in. long diamond shaped point, double lead Phillips head steel screws. When resilient channels are used, insulation, Item 8 or 9 is required.

8. Batts and Blankets* — Required for use with resilient channels, Item 7, min. 3 in. thick mineral wool batts, placed to fill interior of wall, attached to the nom 4 in. face of the studs with staples placed 24 in. OC. **ROCKWOOL** — Type SAFEnSOUND, min. 1.8 pcf.

THERMAFIBER INC — Type SAFB, SAFB FF

9. Batts and Blankets* — (As an alternate to Item 8) — Min. 3 in. thick glass fiber batts bearing the UL Classification Marking as to Surface Burning and/or Fire Resistance, friction-fitted to fill the stud cavities. See Batts and Blankets (BKNV or BZJZ) Categories for names of Classified companies.

9A. Fiber, Sprayed* — (Optional) — As an alternate to Batts and Blankets (Item 8), Required for use with resilient channels, Item 7, Not for use with Item 6, 6A, 6B, or 6C. — Spray applied mineral wool insulation. The fiber is applied with adhesive, at a minimum density of 4.0 pcf, to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. See Fiber, Sprayed (CCAZ). AMERICAN ROCKWOOL MANUFACTURING, LLC — Type Rockwool Premium Plus

10. Wall and Partition Facings and Accessories* — (Optional, Not Shown) — Nominal 1/2 in. thick, 4 ft wide panels, for optional use as an additional layer on one or both sides of the assembly. Panels attached in accordance with manufacturer's recommendations. When the QR-500 or QR-510 panel is installed between the wood framing and the UL Classified gypsum board, the required UL Classified gypsum board layer(s) is/are to be installed as indicated as to fastener type and spacing, except that the required fastener length shall be increased by a minimum of 1/2 in. Not evaluated or intended as a substitute for the required layer(s) of UL Classified

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock QR-500 or QR-510

S-12 bugle head steel screws spaced as described in Item 4.

11. Cementitious Backer Units* — (Optional Item Not Shown — For Use On Face Of 2 Hr Systems With All Standard Items Required) - 7/16 in., 1/2 in., 5/8 in., 3/4 in. or 1 in. thick, min. 32 in. wide. Applied horizontally or vertically with vertical joints centered over studs. Face layer fastened over gypsum board to studs and runners with cement board screws of adequate length to penetrate stud NATIONAL GYPSUM CO — Type DuraBacker, PermaBase, DuraBacker Plus, or PermaBase Plus

12. Wall and Partition Facings and Accessories* — (Optional, Not Shown) - When the Wall Assembly is used as an External Wall, on the External side of the wall one of the following Wall and Partition and Facing Accessories may be used, refer to items (A) to (C)

A. Non Insulated system with metal channels — Install moisture barrier over the Gypsum Board Item 4 and Install Acry Metal Channels vertically at a horizontal spacing not greater than 24 inches OC., over the moisture barrier. Acry Metal Channels attached through the moisture barrier and the Gypsum Board to the Wood Studs using fasteners specified by the manufacturer and fasteners spaced max., 24 in. OC. Install Acrytec Panels on Acry Metal Channels using 1-1/4" long corrosion coated stainless steel screws spaced at a max spacing of 24 inches OC, along with manufacturer's approved adhesive (3M 540 or Tremco Vulcum 116). Adhesive to be applied in a zigzag pattern along every channel. Joint treatment in between panels shall be Tremco illmod 600 pre compressed

B. Insulated system with metal channels — Install moisture barrier over the Gypsum Board Item 4. Install galvanized Z girt channels specified by the manufacturer over the moisture barrier and the Gypsum Board Item 4. Z girt channels to be installed horizontally at a max. spacing of 24" OC. Z girt channels attached through the Gypsum Board and the moisture barrier to the wood studs with screws provided by the manufacturer at a max spacing of 24 inches OC. Install mineral wool insulation between the Z girts. Maximum thickness of mineral wool insulation not to exceed 6 in. As per manufacturer's instructions install Acry Metal Channels vertically over the Z girts at a max horizontal spacing of 24 in. OC. Acrytec Panels installed on Acry channel with 1-1/4" long corrosion coated stainless steel screws at a max spacing of 24 in. OC, along with manufacturers approved adhesive (3M 540 or Tremco Vulcum 116). Adhesive to be applied in a zigzag pattern along every channel. Joint treatment in between panels to be Tremco illmod 600 pre compressed polyurethane foam sealant.

C. Non insulated wood strapping system — Install moisture barrier over the Gypsum Board Item 4 and Install 1" x 3" wood strapping vertically at a horizontal spacing not greater than 24 inches OC., over the moisture barrier. 1" x 3" wood strapping attached through the moisture barrier and the Gypsum Board to the Wood studs using fasteners specified by the manufacturer and fasteners spaced max., 24 in. OC. Acrytec Panels to be installed on the 1" x 3" wood strapping using manufacturers approved stainless steel fasteners spaced at maximum 24 inches OC along with Tremco Vulcum 116 adhesive applied in a zigzag pattern along every wood strap. Joint treatment in between panels to be Tremco illmod 600 pre compressed polyurethane foam sealant.

D. Insulated Wood Strapping System — Install moisture barrier over the Gypsum Board Item 4. Install Extruded Polystyrene Insulation over moisture barrier and the Gypsum Board Item 4, max thickness of insulation not to exceed 4 inches. Install 1" x 3" wood strapping vertically at a horizontal spacing not greater than 24 inches OC. Wood strapping attached through the Insulation, the Gypsum Board and moisture barrier to the Wood Studs using fasteners specified by the manufacturer and fasteners spaced max. 24 in. OC. Acrytec Panels to be installed over the wood strapping using manufacturers approved stainless steel fasteners at a max spacing of 24 in. OC and Tremco Vulcum 116 adhesive applied in a zigzag pattern along every wood strap. Joint treatment in between panels to be Tremco illmod 600 pre compressed polyurethane foam sealant.

ACRYTEC PANEL INDUSTRIES — Nominal 5/8 inch thick Acrytec Panel.

13. Foamed Plastic* — (Optional, Not Shown - For use with Item 4Q) — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity. SES FOAM INC — Nexseal™ 2.0 or Nexseal™ 2.0 LE Spray Foam and Sucraseal Spray Foam. For use in Bearing and Non-Load Bearing Walls.

₹COR3 Design, LLC Commercial, Office, Retail, Restaurant, Real Estate Developme

125 Rhett Street

Consultants: STRUCTURAL Taylor and Viola Structural Engineers PO Box 2616 Hickory, NC 28603

828.328.6331 PLUMBING LWI Consulting Engineers 870 Cleveland St, STE 1D

Greenville, SC 29601 864.271.6535 MECHANICAL LWI Consulting Engineers 870 Cleveland St, STE 1D Greenville, SC 29601 864.271.6535

ELECTRICAL Matrix Engineering, INC 912 S Pine Street Spartanburg, SC 29302 864.583.6274



COR 3 DESIGN

> 10.16.2024 Issue For Permit 03.20.2025 100% Issue For Hilton

Project Number : 23112 Phase: CD

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Fire-resistance Ratings - ANSI/UL 263 BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United

BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for

 $\underline{\text{See General Information for Fire-resistance Ratings} - \text{ANSI/UL 263 Certified for United States}}$ Design Criteria and Allowable Variances See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

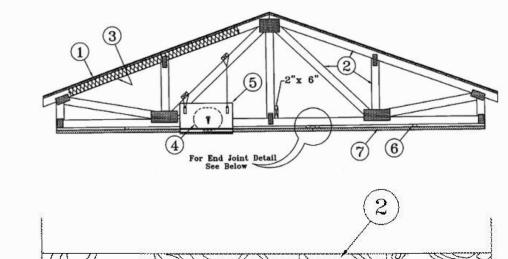
Design No. P522

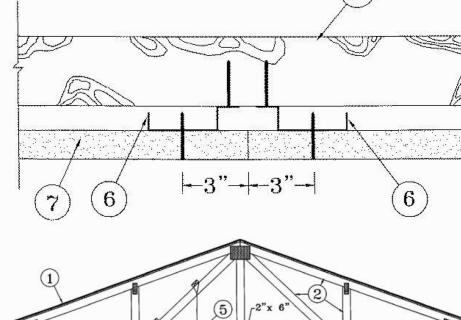
March 03, 2023 Jnrestrained Assembly Rating — 1 Hr

Design Criteria and Allowable Variances

Finish Rating — 25 Min (See Items 3 or 3A) This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide BXUV or BXUV7

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.





Alternate Insulation Placement I. Roofing System* — Any UL Class A, B or C Roofing System (TGFU) or Prepared Roof Covering (TFWZ) acceptable for use over nom 15/32 in. thick wood structural panels, min. grade "C-D" or "Sheathing". Nom 15/32 in. thick wood structural panels secured to trusses with No. 6d ringed shank nails spaced 12 in. OC along each truss. Staples having equal or greater withdrawal and lateral resistance

strength may be substituted for the 6d nails. Construction adhesive may be used with either the nails or staples.

2. Trusses — Pitched or parallel chord wood trusses, spaced a max of 24 in. OC, fabricated from nom 2 by 4 lumber, with lumber oriented vertically or horizontally. Truss members secured together with min. 0.0356 in, thick galy steel plates. Plates have 5/16 in, long teeth projecting perpendicular to the plane of the plate. The teeth are in pairs facing each other (made by the same punch), forming a split tooth type plate. Each tooth has a chisel point on its outside edge. These points are diagonally opposite each other for each pair. The top half of each tooth has a twist for stiffness. The pairs are repeated on approximately 7/8 in. centers with four rows of teeth per inch of plate width. Minimum parallel chord truss depth shall be 18 in. Where pitched truss intersects with the interior face of the exterior walls, the min truss depth shall be 5-1/4 in. with a min roof slope of 3/12 and a min. average depth of 18 in.. Where the truss intersects with the interior face of the exterior walls, the min truss depth may be reduced to 3 in, if the batts and blankets (Item 3) are used as shown in the above illustration (Alternate Insulation Placement) and are firmly packed against the intersection of the bottom chords and the plywood sheathing.

3. Batts and Blankets* — (Optional) — Required when Item 6B is used — Glass fiber insulation, secured to the wood structural panels with staples spaced 12 in. OC or to the trusses with 0.090 in. diam galv steel wires spaced 12 in. OC. Any glass fiber insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance, having a min density of 0.5 pcf. As an option, the insulation may be fitted in the concealed space, draped over the resilient channel/gypsum board ceiling membrane when resilient channels and gypsum board attachment is modified as specified in Items 6 and 7. When Steel Framing Members (Item 6B) are used, max 3-1/2 in. thick insulation shall be draped over the furring channels (Item 6Ba) and gypsum board ceiling membrane, and friction-fitted between trusses and Steel Framing Members (Item 6Bd). The finished rating has only been determined when the insulation is secured to the decking.

3A. Fiber, Sprayed* — As an alternate to Item 3 (not evaluated for use with Item 6B) — Any thickness of spray-applied cellulose insulation material, having a min density of 0.5 lb/ft³, applied with water, over the resilient channel/gypsum board ceiling membrane when resilient channels and gypsum board attachment is modified as specified in Items 6 and 7. Fiber, Sprayed is applied with moisture in accordance with the application instructions supplied with the product. The finish rating when Fiber Sprayed is used has not been determined. Alternate application method: The fiber is applied without water or adhesive in accordance with the application instructions supplied with a minimum density of 0.5 lb/ft3 over the resilient channel/gypsum board ceiling membrane when resilient channels and gypsum board attachment is modified as specified in Items 6 and 7. Alternate application method: The fiber is applied without water or adhesive to a nominal density of 3.5 lb/ft³ behind netting (Item 9) stapled to the rafters. The netting is stapled at both lower edges of the rafters creating a cavity to accept the cellulose fiber. APPLEGATE GREENFIBER ACQUISITION LLC — INS735, INS745, INS750LD, and SANCTUARY for use with wet or dry application. INS510LD, INS515LD, INS541LD, INS735, INS765LD, Insulmax, and INS773LD are to be used for dry application only.

3B. Foamed Plastic* — (As an alternate to Item 3 or 3A, Not Shown) — Spray foam insulation applied directly to the underside of the underside of the roofing system (Item 1). Spray foam insulation installed to a maximum thickness of 10 in. at a nominal 0.5 lb/ft³ density, while maintaining a minimum 8-1/2 in, clearance between the spray foam insulation and the gypsum board (Item 7). When spray foam insulation is used, resilient channels (Item 6) shall be installed maximum 12 in. OC, with channels adjacent to butt joints of gypsum board (Item 7) installed at 6 in. OC to allow for maximum 3 in. spacing off ends of the gypsum board joints. Gypsum board (Item 7) to be installed using 1-1/4 in. long Type S screws, spaced maximum 8 in. OC, and butted end joints shall be staggered min. 2 ft within the assembly, and occur midway between the continuous furring channels. If used with a fire damper (Items 5 through 5K) in the concealed space, minimum 1 in. clearance to be maintained between damper housing and spray foam insulation. Not evaluated for use with Items 6A through 6F. SES FOAM INC — Sucraseal

3C. Cavity Insulation - Batts and Blankets* or Fiber, Sprayed* — (As described above) in Items 3 and 3A — (For Use with Item 7B, Not Shown) — Min. 3-1/2 in thick with no limit on maximum thickness fitted in the concealed space, draped over the resilient channel (Item 6G)/gypsum board (Item 7B) ceiling membrane.

3D. Foamed Plastic* — (As alternate to Item 3, 3A, or 3B, Not Shown) — Spray foam insulation applied directly to the underside of the roofing system (Item 1). Spray foam insulation installed to a maximum thickness of 10 in, at a nominal 0.5 lb/ft³ or 2.0 lb/ft³ density, depending on the product installed. When spray foam insulation is installed, resilient channels (Item 6) shall be installed maximum 12 in. OC, with channels adjacent to butt joints of gypsum board (Item 7) spaced maximum 3 in. away from gypsum butt joints. Gypsum board (Item 7) to be installed using minimum 1-1/4 in. long Type S screws, spaced maximum 8 in. OC, and butted end joints shall be staggered min. 2 ft within the assembly, and occur midway between the continuous furring channels. If used with a fire damper (Items 5 through 5H) in the concealed space, minimum 1 in. clearance to be maintained between damper housing and spray foam insulation. Not evaluated for use with Items 6A through 6F.

BASF CORP — Enertite® NM, Enertite® G, FE178®, Spraytite® 178, Spraytite® 81206, Walltite® 200, Walltite® US, Walltite® US-N, and

3E. Foamed Plastic* — (As an alternate to Item 3, 3A, 3B, 3C, or 3D, Not Shown) — Spray foam insulation applied directly to the underside of the underside of the roofing system (Item 1). Spray foam insulation installed to a maximum thickness of 17 in. at a nominal 0.5 lb/ft³ density, while maintaining a minimum 1-1/2 in. clearance between the spray foam insulation and the gypsum board (Item 7). When spray foam insulation is used, resilient channels (Item 6) shall be installed maximum 12 in. OC, with channels adjacent to butt joints of gypsum board (Item 7) installed at 6 in, OC to allow for maximum 3 in, spacing off ends of the gypsum board joints. Gypsum board (Item 7) to be installed using 1-1/4 in. long Type S screws, spaced maximum 8 in. OC, and butted end joints shall be staggered min. 2 ft within the assembly, and occur midway between the continuous furring channels. If used with a fire damper (Items 5 through 5K) in the concealed space, no clearance is necessary between damper housing and spray foam insulation. Not evaluated for use with Items 6A through 6F.

3F. Foamed Plastic* — (As alternate to Item 3 - not to be used in combination with any alternates to item 3) — Spray foam insulation applied directly to the underside of the roofing system (Item 1). Spray foam insulation installed to a maximum thickness of 11 in. at a nominal 1.0 lb/ft³ - 2.5 lb/ft³ density, while maintaining a minimum 7 in. clearance between the spray foam insulation and the gypsum board (Item 7). When spray foam insulation is installed, resilient channels (Item 6) shall be installed maximum 12 in. OC, with channels adjacent to butt joints of gypsum board spaced maximum 3 in. away from gypsum butt joints. Gypsum board to be installed using minimum 1-1/4 in, long Type S screws, spaced maximum 8 in, OC, and butted end joints shall be staggered min, 2 ft within the assembly, and occur midway between the continuous furring channels. If used with a fire damper (Items 5 through 5K) in the concealed space, no clearance is necessary between damper housing and spray foam insulation. Only for use with item 6 not evaluated for use with alternates to item 6.

width of 18 in. Max damper height is 14 in. Installed in accordance with manufacturers installation instructions provided with the

damper. Max damper openings not to exceed 162 sq in. per 100 sq ft of ceiling area.

CARLISLE SPRAY FOAM INSULATION — Types SealTite Pro Closed Cell (CC), SealTite Pro Open Cell (OC), SealTite Pro OCX, SealTite Pro No Trim 21, SealTite Pro One Zero, SealTite PRO HFO, Foamsulate Closed Cell, Foamsulate OCX, Foamsulate 70, Foamsulate HFO, and Foamsulate HFO 2.0.

4. Air Duct* — For use with Ceiling Dampers* - Any UL Class 0 or Class 1 flexible air duct installed in accordance with the instructions provided by the damper manufacturer 5. Ceiling Damper* — Max nom area, 324 sq in. Max square size, 18 in. by 18 in. rectangular sizes not to exceed 324 sq in. with a max

POTTORFF — Model CFD-521

C&S AIR PRODUCTS — Model RD-521

5A. Alternate Ceiling Damper* — Max nom area, 196 sq in. Max square size, 14 in. by 14 in. Rectangular sizes not to exceed 196 sq in, with a max width of 26 in. Max overall damper height is 7 in, Installed in accordance with the manufacturers installation instructions provided with the damper. Max damper openings not to exceed 98 sq in. per 100 sq ft of ceiling area. **C&S AIR PRODUCTS** — Model RD-521-BT

POTTORFF — Model CFD-521-BT.

5B. Alternate Ceiling Damper* — Max nom area shall be 256 sq in. with the length not to exceed 24 in. and the width not to exceed 20 in. Max height of damper shall be 17 in. Aggregate damper openings shall not exceed 128 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturers installation instructions provided with the damper. A steel grille shall be installed in accordance with installation instructions

POTTORFF — Models CFD-521-IP, CFD-521-NP

C&S AIR PRODUCTS — Model RD-521-IP, RD-521-NP

5C. Alternate Ceiling Damper* — Ceiling damper & fan assembly. Max nom area shall be 75 sq in. with the length not to exceed 8-9/16 in. and the width not to exceed 8-3/4 in. Max height of damper shall be 9-7/8 in. Aggregate damper openings shall not exceed 38 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in

accordance with, the manufacturers installation instructions provided with the damper. A plastic grille shall be installed in accordance with installation instructions. **DELTA ELECTRONICS INC** — Models CRD2, GBR-CRD, ITG-CRD

5D. Alternate Ceiling Damper* — Ceiling damper & fan. Max nom area shall be 75 sq in. with the length not to exceed 9-1/4 in. and the width not to exceed 9-3/4 in. Max height of damper shall be 9-7/8 in. Aggregate damper openings shall not exceed 45 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer's installation instructions provided with the damper. A plastic grille shall be installed in accordance with installation

5E. Alternate Ceiling Damper* — Max nom area shall be 144 sq in. with the length not to exceed 14 in. and the width not to exceed 12 in. Max height of damper shall be 17-7/8 in. Aggregate damper openings shall not exceed 74 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturers installation instructions provided with the damper. A steel grille shall be installed in accordance with installation instructions.

POTTORFF — Models CFD-521-90, CFD-521-90NP

BROAN-NUTONE L L C — Models RDJ1 and RDH

BROAN-NUTONE L L C — Model RDMWT

C&S AIR PRODUCTS — Model RD-521-90, RD-521-NP90

DELTA ELECTRONICS INC — Model SIG-CRD

5F. Alternate Ceiling Damper* — Ceiling damper & fan assembly. Max nom area shall be 131 sq in. with the length not to exceed 11-1/16 in. and the width not to exceed 11-7/8 in. Aggregate damper openings shall not exceed 66 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer's installation instructions provided with the damper. A plastic grille shall be installed in accordance with installation instructions. DELTA ELECTRONICS INC — Model SMT-CRD

10-1/8 in. and the width not to exceed 10-1/8 in. Aggregate damper openings shall not exceed 52 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer's installation instructions provided with the damper. A plastic grille shall be installed in accordance with installation instructions. PANASONIC CORPORATION, PANASONIC CORPORATION OF NORTH AMERICA — Model PC-RD05C5 5H. Alternate Ceiling Damper* — Ceiling damper & fan assembly. Max nom area shall be 113 sq in, with the length not to exceed 10-1/8 in. and the width not to exceed 11-1/8 in. Aggregate damper openings shall not exceed 57 sq in. per 100 sq ft of ceiling area.

Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer's

5G. Alternate Ceiling Damper* — Ceiling damper & fan assembly. Max nom area shall be 103 sg in, with the length not to exceed

installation instructions provided with the damper. A plastic grille shall be installed in accordance with installation instructions. **BROAN-NUTONE L L C** — Model RDFUWT 51. Alternate Ceiling Damper* — Ceiling damper & fan. Max nom area shall be 79 sq in. with the length not to exceed 10 in. and the width not to exceed 7-15/16 in. Aggregate damper openings shall not exceed 40 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer's installation instructions

provided with the damper. A metallic grille shall be installed in accordance with installation instructions.

5J. Alternate Ceiling Damper* — Ceiling damper & fan assembly. Max nom area shall be 87 sq in. with the length not to exceed 9 in. and the width not to exceed 9-11/16 in. Aggregate damper openings shall not exceed 44 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer's installation instructions provided with the damper. A plastic grille shall be installed in accordance with installation instructions.

5K. Alternate Ceiling Damper* — Ceiling damper & fan assembly. Max nom area shall be 87 sq in. with the length not to exceed 9 in and the width not to exceed 9-11/16 in. Aggregate damper openings shall not exceed 44 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer's installation instructions provided with the damper. A plastic grille shall be installed in accordance with installation instructions. **BROAN-NUTONE L L C** — Model RDMWT2

6. Furring Channels — Resilient channels formed of 25 MSG thick galv steel. Installed perpendicular to the trusses (Item 2), spaced a max of 16 in. OC when no insulation (Item 3 or 3A) is fitted in the concealed spaced, or a max of 12 in. OC when insulation (Item 3 or 3A) is fitted in the concealed space, draped over the resilient channel/gypsum board ceiling membrane, or when insulation (Item 3B, 3D or 3E) is applied to the underside of the roofing system (Item 1). Two courses of resilient channel positioned 6 in. OC at wallboard butt-joints (3 in. from each end of wallboard). Channels oriented opposite at wallboard butt-joints. Channel splices overlapped 4 in. beneath wood trusses. Channels secured to each truss with 1-1/4 in. long Type S screws.

6A. Steel Framing Members* — (Not Shown) — As an alternate to Item 6, furring channels and Steel Framing Members as described a. Furring Channels — Formed of No. 25 MSG galv steel. 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced 16 in. OC perpendicular to trusses when no insulation (Items 3 or 3A) is fitted in the concealed space or 12 in. OC when insulation (Items 3 or 3A) is fitted in the concealed space, draped over the furring channel/gypsum board ceiling membrane or 24 in. OC when insulation (Items 3 or 3A) is fitted in the concealed space, draped over the furring channel/gypsum board ceiling membrane and a second layer of gypsum board is attached as described in Item 7 for steel framing members. Channels secured to trusses as described in Item 6Ab. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of

b. Steel Framing Members — Used to attach furring channels (Item a) to trusses (Item 2). Clips spaced 48 in. OC. RSIC-1 and RSIC-1 (2.75) clips secured to alternating trusses with No. 8 by 2-1/2 in. coarse drywall screw through the center grommet. RSIC-V and RSIC-V (2.75) clips secured to alternating trusses with No. 8 by 1-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips. RSIC-1 and RSIC-V clips for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) and RSIC-V (2.75) clips for use with 2-23/32 in, wide furring channels. Adjoining channels are overlapped as described in Item 6Aa. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping No. 6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Additional clips required to hold furring channel that supports the gypsum board butt joints, as described in Item 7.

6B. Steel Framing Members* — (Not Shown) — As an alternate to Items 6 and 6A. a. Furring Channels — Hat-shaped furring channels, 7/8 in. deep by 2-5/8 in. wide at the base and 1-1/4 in. wide at the face, formed from No. 25 ga. galv steel, spaced max 16 in. OC perpendicular to trusses and Cold Rolled Channels (Item 6Bb). Furring channels secured to Cold Rolled Channels at every intersection with a 1/2 in. pan head self-drilling screw through each furring channel leg. Ends of adjoining channels overlapped 4 in. and tied together with two double strand No. 18 SWG galv steel wire ties, one at each end of overlap. Supplemental furring channels at base layer and outer layer gypsum board butt joints are not required. Batts and Blankets

PAC INTERNATIONAL L L C — Types RSIC-1, RSIC-V, RSIC-1 (2.75), RSIC-V (2.75).

b. Cold Rolled Channels — 1-1/2 in. by 1/2 in., formed from No. 16 ga. galv steel, positioned vertically and parallel to trusses, frictionfitted into the channel caddy on the Steel Framing Members (Item 6Bd). Adjoining lengths of cold rolled channels lapped min. 6 in. and wire-tied together with two double strand 18 SWG galv steel wire ties, one at each end of overlap.

draped over furring channels as described in Item 3. Two layers of gypsum board attached to furring channels as described in Item 7.

c. Blocking — Where truss design does not permit direct, full contact of the hanger bracket, a piece of nominal 2 by 4 in. lumber (blocking), min. 6 in. long to permit full contact of the hanger bracket, to be secured vertically to the side of the truss (Item 2) at the top and bottom of the blocking at each Steel Framing Member (Item 6Bd) location.

d. Steel Framing Members* — Hangers spaced 48 in. OC. max along truss, and secured to the Blocking (Item 6Bc) on alternating trusses with a single 5/16 in. by 2 in. hex head lag bolt or four #6 1-1/4 in. drywall screws through mounting hole(s) on the hanger bracket. The two 1/4 in. long steel teeth on the hanger are embedded in the side of the blocking. Hanger positioned on blocking and leveling bolt height adjusted such that furring channels are flush with bottom of trusses before gypsum board installation. Spring gauge of hanger chosen per manufacturer's instructions. **CINETICS NOISE CONTROL INC** — Type ICW.

6C. Steel Framing Members* — (Not Shown) — As an alternate to Items 6, 6A and 6B. a. Furring Channels — Formed of No. 25 MSG galv steel, 2-3/8 in. wide by 7/8 in. deep installed perpendicular to wood structural members. Channels spaced a max of 16 in. OC when no insulation (Item 3 or 3A) is fitted in the concealed space or a max of 12 in. OC when insulation (Item 3 or 3A) is fitted in the concealed space. Channels secured to trusses as described in Item 6Cb. Ends of adjoining

channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire near each end of overlap.

b. Steel Framing Members* — Used to attach furring channels (Item 6Ca) to trusses (Item 2). Clips secured to the bottom chord of each truss (48 in. OC) with one No. 8 by 2-1/2 in. long coarse drywall screw through center grommet. Furring channels are friction fitted into clips. Adjoining channels are overlapped as described in Item 6Ca. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping No. 6 framing screws, min 7/16 in. long at the midpoint of the overlap with one screw on each flange of the channel. Additional clips required to hold furring channel that supports the gypsum board butt joints, as described in Item 7.

6D. Steel Framing Members* — (Not Shown) — As an alternate to Items 6, 6A, 6B and 6C. a. Main runners — Installed perpendicular to trusses — Nom 10 or 12 ft long, 15/16 in. or 1-1/2 in. wide face, spaced 4 ft OC. Main runners hung a min of 2 in. from bottom chord of trusses with 12 SWG galv steel wire. Wires located a max of 48 in. OC.

b. Cross tees or channels — Nom 4 ft long, 15/16 in. or 1-1/2 in. wide face or cross channels, nom 4 ft long, 1-1/2 wide face, installed perpendicular to the main runners, spaced 16 in. OC. Additional cross tees or channels used at 8 in. from each side of butted gypsum board end joints. The cross tees or channels may be riveted or screw-attached to the wall angle or channel to facilitate the ceiling

c. Wall angles or channels — Used to support steel framing member ends and for screw-attachment of the gypsum wallboard — Min 0.016 in, thick painted or galvanized steel angle with 1 in, legs or min, 0.016 in, thick painted or galvanized steel channel with a 1 by 1-1/2 by 1 in. profile, attached to walls at perimeter of ceiling with fasteners 16 in. OC. CGC INC — Type DGL or RX

USG INTERIORS LLC — Type DGL or RX

6E. Alternate Steel Framing Members* — (Not Shown) — As an alternate to items 6, 6A, 6B, and 6C, furring channels and Steel a. Furring Channels — Formed of No. 25 MSG galv steel, 2-5/8 in. wide by 7/8 in deep, spaced 16 in OC, perpendicular to trusses. When insulation, Items 3 or 3A is used, the furring channel spacing shall be reduced to 12 in. OC. Channels secured to joists as

secured to the bottom of the trusses with one 2 in. Coarse Drywall Screw with 1 in. diam washer through the center hole. Furring channels are then friction fitted into clips. Ends of channels are overlapped 6" and tied together with double strand of No. 18 AWG galvanized steel wire. Additional clips are required to hold the Gypsum Butt joints as described in Item 7. STUDCO BUILDING SYSTEMS — RESILMOUNT Sound Isolation Clips - Type A237 or A237R 6F. Steel Framing Members* — (Not Shown) — As an alternate to Items 6 through 6E- Not for use with Items 3 or 3A. Main runners

b. Steel Framing Members* — Used to attach furring channels (Item a) to the wood trusses (Item 2). Clips spaced at 48" OC and

nom 12 ft long, spaced 72 in. OC. Main runners suspended by min 12 SWG galv steel hanger wires spaced 48 in. OC. Cross tees, nom 6 ft long, installed perpendicular to main runners and spaced 24 in. OC. Additional 6 ft long cross tees required at each gypsum board end joint with butted gypsum board end joints centered between cross tees spaced 8 in. OC. The main runners and cross tees may be riveted or screw attached to the wall angle or channel to facilitate the ceiling installation.

6G. Resilient Channels — For Use With Item 7B - Formed from min 25 MSG galv steel installed perpendicular to trusses and spaced 16 in. OC. Channels secured to each truss with 1-5/8 in. long Type S bugle head steel screws. Channels overlapped 4 in. at splices. Two channels, spaced 6 in. OC, oriented opposite each gypsum panel end joint. Additional channels shall extend min 6 in. beyond each side edge of panel. Insulation, Item 3C is applied over the resilient channel/gypsum panel ceiling membrane.

6H. Alternate Steel Framing Members* — (Not Shown) — As an alternate to items 6 through 6G, furring channels and Steel Framing Members as described below. a. Furring Channels — Formed of No. 25 MSG galv steel, 2-1/2 in. wide by 7/8 in deep, spaced 16 in OC, perpendicular to trusses. When insulation, Items 3 or 3A is used, the furring channel spacing shall be reduced to 12 in. OC. Channels secured to joists as

b. Steel Framing Members* — Used to attach furring channels (Item a) to the wood trusses (Item 2). Clips spaced at 48" OC and secured to the bottom of the trusses with one 2-1/2 in. Coarse Drywall Screw with 1 in. diam washer through the center hole. Furring channels are then friction fitted into clips. Ends of channels are overlapped 6" and tied together with double strand of No. 18 AWG galvanized steel wire. Additional clips are required to hold the Gypsum Butt joints as described in Item 7. **REGUPOL AMERICA** — Type SonusClip

7. Gypsum Board* — One layer of nom 5/8 in. thick by 48 in. wide boards, installed with long dimension parallel to trusses. Attached to the resilient channels using 1 in, long Type S bugle-head screws. Screws spaced a max of 12 in, OC along butted end-joints and in the field when no insulation (Item 3 or 3A) is fitted in the concealed spaced, or a max of 8 in. OC along butted end-joints and in the field when insulation (Item 3 or 3A) is fitted in the concealed space, draped over the resilient channel/gypsum board ceiling membrane. When insulation (Item 3B, 3D or 3E) is installed in the concealed space, spray-applied to the underside of the roofing system (Item 1), screws are spaced a max of 8 in. OC along resilient channels, fasteners are increased in length to 1-1/4 in, and gypsum board butt joints shall be staggered min. 2 ft within the assembly, and occur between the main furring channel When Steel Framing Members* (Item 6A or 6C) are used, sheets installed with long dimension perpendicular to furring channels and side joints of sheet located beneath trusses. Gypsum board screws are driven through channel spaced 12 in. OC in the field when no insulation (Item 3 or 3A) is fitted in the concealed space, or 8 in. OC in the field when insulation (Item 3 or 3A) is fitted in the concealed space, draped over the furring channel/gypsum board ceiling membrane. Gypsum board butt joints shall be staggered min. 2 ft within the assembly, and occur between the main furring channels. At the gypsum board butt joints, each end of the gypsum board shall be supported by a single length of furring channel equal to the width of the wallboard plus 6 in, on each end. The furring channels shall be spaced approximately 3-1/2 in, OC, and be attached to the trusses with one clip at each end of the channel. Screw spacing along the butt joint to attach the gypsum board to the furring channels shall be 8 in. OC Second (outer) layer of gypsum board required when furring channels (Item 6A, a) are spaced 24 in. OC and insulation is fitted in the concealed space, draped over the furring channel/gypsum board ceiling membrane. Outer layer of gypsum board attached to the furring channels using 1-5/8 in. long Type S bugle-head screws spaced 8 in. OC at butted joints and 12 in. OC in the field. Butted end joints of outer layer to be offset a minimum of 8 in. from base layer end joints. Butted side joints of outer layer to be offset minimum 18 in. from butted side joints of base layer When Steel Framing Members (Item 6B) are used, two layers of nom 5/8 in. thick, 4 ft wide gypsum board are installed with long dimensions perpendicular to furring channels (Item 6Ba). Base layer attached to the furring channels using 1 in, long Type S bugle head steel screws spaced 8 in. OC along butted end joints and 12 in. OC in the field of the board. Butted end joints centered on the continuous furring channels. Butted base layer end joints to be offset a min of 16 in. in adjacent courses. Outer layer attached to the furring channels using 1-5/8 in. long Type S bugle head steel screws spaced 8 in. OC at butted end joints and 12 in. OC in the field. Butted end joints centered on the continuous furring channels and offset a min of 16 in, from butted end joints of base layer. Butted side joints of outer layer to be offset min 16 in, from butted side joints of base

When Steel Framing Members (Item 6C) are used, one layer of nom 5/8 in. thick, 4 ft wide gypsum board is installed with long dimensions perpendicular to furring channels. Gypsum board secured to furring channels with nom 1 in. long Type S bugle-head steel screws spaced 8 in. OC in the field of the board. Gypsum board butted end joints shall be staggered minimum 72 in. At the gypsum board butt joints, each end of each gypsum board shall be supported by a single length of furring channel equal to the width of the gypsum board plus 3 in. on each end, spaced approximately 2 in. in from joint. Screw spacing along the gypsum board butt joint shall be 8 in. OC. Butt joint furring channels shall be attached with a RESILMOUNT Sound Isolation Clip secured to underside of every truss that is located over the butt joint. Over all Gypsum Board side joints, approximately 20 in. lengths of furring channel shall be installed parallel to trusses (Item 2) between main furring channels. Side joint furring channels shall be attached to underside of the joist with RESILMOUNT Sound Isolation Clips - located approximately 2 in. from each end of the approximate 20 in. length of channel. Both Gypsum Boards at side joints fastened into channel with screws spaced 8 in. OC, approximately 1/2 in.

When Steel Framing Members (Item 6E) are used, one layer of nom 5/8 in, thick, 4 ft wide gypsum board is installed with long dimensions perpendicular to furring channels. Gypsum board secured to furring channels with nom 1 in, long Type S bugle-head steel screws spaced 8 in, OC in the field of the board. Gypsum board butted end joints shall be staggered minimum 48 in. and centered over main furring channels. At the gypsum board butt joints, each end of each gypsum board shall be supported by a single length of furring channel equal to the width of the gypsum board plus 3 in. on each end. The two support furring channels shall be spaced approximately 3 in. in from end joint. Screw spacing along the gypsum board butt joint and along both additional channels shall be 8 in. OC. Additional screws shall be placed in the adjacent section of gypsum board into the aforementioned 3 in. extension of the extra butt joint channels as well as into the main channel that runs between. Butt oint furring channels shall be attached with one RESILMOUNT Sound Isolation Clip at each end of the channel.

When alternate Steel Framing Members* (Item 6F) are used, one layer of nom 5/8 in, thick, 4 ft wide gypsum board sheets installed with long dimension (side joints) perpendicular to the 6 ft long cross tees with the end joints staggered min 4 ft and centered between cross tees which an spaced 8 in. OC. Gypsum board side joints may occur beneath or between main runners. Prior to installation of the gypsum board sheets, backer strips consisting of nom 7-3/4 in. wide pieces of gypsum board are to be laid atop the cross tee flanges and centered over each butted end joint ocation. The backer strips are to be secured to the flanges of the cross tees at opposite corners of the backer strip with hold down clips to prevent the backer strips from being uplifted during screw-attachment of the gypsum board sheets. Gypsum board fastened to cross tees with 1 in. drywall screws spaced 1 in. and 4 in. from the side joints and max 8 in. OC in the field of the board. The butted end joints are to be secured to the backer strip with No. 10 by 1-1/2 in. long Type G laminating screws located 1 in. from each side of the butted end joint and spaced 1 in. and 4 in. from the side joints and max 8 in. OC in the field of the board.

COR3 Design, LLC Commercial, Office, Retail, Restaurant, Real Estate Development

125 Rhett Street

Consultants: STRUCTURAL Taylor and Viola Structural Engineers PO Box 2616

Hickory, NC 28603 828.328.6331 PLUMBING

LWI Consulting Engineers 870 Cleveland St, STE 1D Greenville, SC 29601 864.271.6535

MECHANICAL LWI Consulting Engineers 870 Cleveland St, STE 1D Greenville, SC 29601 864.271.6535

ELECTRICAL Matrix Engineering, INC 912 S Pine Street Spartanburg, SC 29302 864.583.6274





10.16.2024 Issue For Permit 03.20.2025 100% Issue For Hilton

Project Number 23112 Phase : CD 04.22.2024 Drawn By:

Checked Bv Sheet Number:

UL CUT SHEETS

When Steel Framing Members (Item 6H) are used, one layer of nom 5/8 in. thick, 4 ft wide gypsum board is installed with long dimensions perpendicular to furring channels. Gypsum board secured to furring channels with nom 1 in. long Type S bugle-head steel screws spaced 8 in. OC in the field of the board. Gypsum board butted end joints shall be staggered minimum 48 in. and centered over main furring channels. At the gypsum board butt joints, an additional single length of furring channel shall be installed and be spaced approximately 3 in. from the butt joint (6 in. from the continuous furring channels) to support the floating end of the gypsum board. Each of these shorter sections of furring channel shall extend one truss beyond the width of the gypsum panel and be attached to the adjacent trusses with one SonusClip at every truss involved with

UNITED STATES GYPSUM CO — Types C, IP-X2, IPC-AR

USG MEXICO S A DE C V — Types C, IP-X2, IPC-AR

USG BORAL DRYWALL SFZ LLC — Type C

CGC INC — Types C, IP-X2, IPC-AR

7A. Gypsum Board* — For use with Steel Framing Members (Item 6D) when Batts and Blankets* (Item 3) are not used - One layer of nom 5/8 in. thick by 48 in. wide boards, installed with long dimension parallel to the main runners. Gypsum board fastened to each cross tee or channel with five wallboard screws, with one screw located at the midspan of the cross tee or channel, one screw located 12 in, from and on each side of the cross tee or channel mid span and one screw located 1-1/2 in, from each gypsum board side joint. Except at wallboard end joints, wallboard screws shall be located on alternating sides of cross tee flange. At gypsum board end joints, gypsum board screws shall be located 1/2 in. from the joint. Gypsum board fastened to main runners with wallboard screws 1/2 in. from side joints, midway between intersections with cross tees or channels (16 in. OC). End joints of adjacent gypsum board sheets shall be staggered not less than 32 in. Gypsum board sheets screw attached to leg of wall angle with wallboard screws spaced 12 in. OC. Joints treated as described in Item 7. For use with **Steel Framing Members*** (Item 6D) when **Batts and Blankets*** (Item 3) are used - Ratings limited to 1 Hour - 5/8 in. thick, 4 ft wide; installed with long dimension perpendicular to cross tees with side joints centered along main runners and end joints centered along cross tees. Fastened to cross tees with 1 in. long steel gypsum board screws spaced 8 in. OC in the field and 8 in. OC along end joints. Fastened to main runners with 1 in. long gypsum board screws spaced midway between cross tees. Screws along sides and ends of boards spaced 3/8 to 1/2 in. from board edge. End joints of the sheets shall be staggered with spacing between joints on adjacent boards not less than 4 ft OC. CGC INC — Type C or IP-X2

UNITED STATES GYPSUM CO — Type C or IP-X2

USG BORAL DRYWALL SFZ LLC — Type C

USG MEXICO S A DE C V — Type C or IP-X2 7B. Gypsum Board* — For use with Items 3C and 6G. Nom 5/8 in. thick, 48 in. wide gypsum panels installed with long dimension a min of 1/2 in. from side joints and 3 in. from the end joints. Finish Rating with this ceiling system is 20 min.

CGC INC — Type ULIX UNITED STATES GYPSUM CO — Type ULIX

8. Finishing System — (Not Shown) — Vinyl, dry or premixed joint compound, applied in two coats to joints and screw-heads; paper tape, 2 in. wide, embedded in first layer of compound over all joints. As an alternate, nom 3/32 in. thick veneer plaster may be applied to the entire surface of gypsum board. **Alternate Ceiling Membrane** — Not Shown.

9. Netting — Fibrous, woven netting material fastened to underside of each joist with staples, with side joints overlapped.

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

mmmilikanininini 1. **Flooring System** — The flooring system shall consist of one of the following: **Subflooring** — Nom 15/32 in. thick wood structural panels installed perpendicular to the joists with end joints staggered. Plywood or panels secured to joists with construction adhesive and No. 6d ringed shank nails, spaced 12 in. OC along each joist. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails.

Finish Flooring — Floor Topping Mixture* — Min 3/4 in. thickness of floor topping mixture having a min compressive strength of 1500 psi. Refer to manufacturer's instructions accompanying the material for specific mix design. FORMULATED MATERIALS LLC — Types FR-25, FR-30, and SiteMix FORMULATED MATERIALS LLC — Types M1, M2, M3, Elite, Duo, R1, and R2 perpendicular to the joists with joints staggered. Vapor Barrier — (Optional) — Commercial asphalt saturated felt, 0.030 in. thick. Vapor Barrier — (Optional) — Nom 0.010 in, thick commercial rosin-sized building pape **KEENE BUILDING PRODUCTS CO INC** — Type Quiet Qurl 55/025 and Quiet Qurl 55/025 N Vapor Barrier — (Optional) - Nom 0.030 in. thick commercial asphalt saturated felt. Finish Floor — Min 1 by 4 in. T & G lumber installed perpendicular to the joists, or min 15/32 in. thick wood structural panels, min grade "Underlayment" or "Single-Floor". Face grain of plywood or strength axis of panel to be perpendicular to joists with joints staggered. KEENE BUILDING PRODUCTS CO INC — Type Quiet Qurl 60/040 and Quiet Qurl 60/040 N

Floor Mat Material* — (Optional) Floor mat material nominal 2 - 9.5 mm thick loose laid over the subfloor. Floor topping shall be a Subflooring — Min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be Finish Flooring* — Min 3/4 in. thickness of any Floor Topping Mixture bearing the UL Classification Marking as to Fire Resistance. See Floor- and Roof-Topping Mixtures (CCOX) category for names of Classified Companies. Refer to the manufacturer's instructions accompanying the material and/or contact the manufacturer's technical support for specific mix design and minimum thickness recommended for use with eligible floor Floor Mat Materials* — (Optional) — Nom. 1/4 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in. Alternate Floor Mat Materials* — (Optional) — Floor mat material Nom. 3/8 in. thick loose laid over the subfloor. Floor topping thickness shall

Subflooring — Nom 15/32 in, thick wood structural panels installed perpendicular to the joists with end joints staggered. Plywood or panels

secured to joists with construction adhesive and No. 6d ringed shank nails, spaced 12 in. OC along each joist. Staples having equal or greater

Finish Flooring - Floor Topping Mixture* — Min 3/4 in. thickness of floor topping mixture having a minimum compressive strength of 1500 psi.

Floor Mat Materials* - (Optional) — Floor mat material loose laid over the subfloor. Refer to manufacturer's instructions regarding the minimum

Floor Mat Reinforcement - (Optional) Refer to manufacturer's instructions regarding minimum thickness of floor topping for use with each floor

Metal Lath — (Optional) 3/8 in. expanded galvanized steel diamond mesh, 3.4 lbs/sg yd loose laid over the floor mat material. Floor topping

Fiber Glass Reinforcement — (Optional) 0.015 in. thick PVC coated non-woven fiberglass mesh, 0.368 lbs./sq. yd loose laid over the floor mat

System No. 3

Subflooring — Nom 15/32 in. thick wood structural panels installed perpendicular to the joists with end joints staggered. Plywood or

panels secured to joists with construction adhesive and No. 6d ringed shank nails, spaced 12 in. OC along each joist. Staples having

equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails.

Vapor Barrier — (Optional) Nom 0.030 in. thick commercial asphalt saturated felt.

withdrawal and lateral resistance strength may be substituted for the 6d nails.

MAXXON CORP — Types Maxxon Standard and Maxxon High Strength

thickness of floor topping over each floor mat material.

MAXXON CORP — Type Encapsulated Sound Mat.

Vapor Barrier - (Optional) — Nom 0.030 in thick commercial asphalt saturated felt.

Refer to manufacturer's instructions accompanying the material for specific mix design.

Gypsum Board* — (For use when floor mat is used) — Two lavers of nom 5/8 in, thick, 4 ft wide gypsum board, installed with long dimension perpendicular to joists on top of the floor mat material. Gypsum board secured to each other with 1 in, long No. 6 Type G bugle head steel screws spaced 12 in, OC and located a min of 1-1/2 in, from side and end joints. The joints of the gypsum board are to be staggered a minimum of 12 inches in between layers and from the joints of the subfloor. **GEORGIA-PACIFIC GYPSUM L L C** — Type DS panel butt joints, as described in Item 8. PAC INTERNATIONAL L L C — Types RSIC-1, RSIC-V, RSIC-1 (2.75), RSIC-V (2.75).

secured to joists with construction adhesive and No. 6d ringed shank nails, spaced 12 in, OC along each joist. Staples having equal or greater vithdrawal and lateral resistance strength may be substituted for the 6d nails Finish Flooring - Floor Topping Mixture* — Min 3/4 in. thickness of floor topping mixture having a min compressive strength of 1100 psi. Mixture shall consist of 6.8 gal of water to 80 lbs of floor topping mixture to 1.9 cu ft of sand. HACKER INDUSTRIES INC — Firm-Fill Gypsum Concrete, Firm-Fill 2010, Firm-Fill 3310, Firm-Fill 4010, Firm-Fill High Strength and Gyp-Span Metal Lath (Optional) — For use with 3/8 in. (10 mm) floor mat materials, 3/8 in. expanded steel diamond mesh, 3.4 lbs/sq yd placed over the

subflooring — Nom 15/32 in, thick wood structural panels installed perpendicular to the joists with end joints staggered. Plywood or panels

floor mat material. Hacker Floor Primer to be applied prior to the placement of the metal lath. When metal lath is used, floor topping thickness a Floor Mat Materials* — (Optional) — Floor mat material nom 5/64 in. (2 mm) thick adhered to subfloor with Hacker Floor Primer. Primer to be applied to the surface of the mat prior to the placement of a min 1 in. of floor-topping mixture. **HACKER INDUSTRIES INC** — Type Hacker Sound-Mat.

Alternate Floor Mat Materials — (Optional) — Floor mat material nom 1/4 in. (6 mm) thick adhered to subfloor with Hacker Floor Primer. Primer to be applied to the surface of the mat prior to the placement of a min 1-1/4 in. (32 mm) of floor-topping mixture. **HACKER INDUSTRIES INC** — Type Hacker Sound-Mat II.

Alternate Floor Mat Materials — (Optional)— Floor mat material nom 1/8 in. (3 mm) thick loose laid over the subfloor. Floor topping thickness HACKER INDUSTRIES INC — FIRM-FILL SCM 125

Alternate Floor Mat Materials — (Optional) — Floor mat material nom 1/4 in. (6 mm) thick loose laid over the subfloor. Floor topping thickness

Alternate Floor Mat Materials — (Optional) — Floor mat material nom 3/8 in. (10 mm) thick loose laid over the subfloor. Floor topping thickness shall be a min of 1-1/4 in. (32 mm) HACKER INDUSTRIES INC — FIRM-FILL SCM 400, Quiet Qurl 60/040

Alternate Floor Mat Materials — (Optional) — Floor mat material nom 3/4 in. (19 mm) thick loose laid over the subfloor. Floor topping thickness

HACKER INDUSTRIES INC — Type FIRM-FILL SCM 750, Quiet Qurl 65/075 System No. 8 Subflooring — Nom 15/32 in. thick wood structural panels installed perpendicular to the joists with end joints staggered. Plywood or panels

secured to joists with construction adhesive and No. 6d ringed shank nails, spaced 12 in. OC along each joist. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails. Vapor Barrier — (Optional) — Nom 0.010 in. thick commercial asphalt saturated felt.

Finish Flooring - Floor Topping Mixture* — Min 3/4 in. thickness of floor topping mixture having a minimum compressive strength of 1800 psi. Refer to manufacturer's instructions accompanying the material for specific mix design. UNITED STATES GYPSUM CO — Types LRK, HSLRK, CSD

USG MEXICO S A DE C V — Types LRK, HSLRK, CSD

HACKER INDUSTRIES INC — Type FIRM-FILL SCM 250, Quiet Qurl 55/025

 $\textbf{Floor Mat Materials*} \leftarrow (\text{Optional}) \leftarrow \text{Floor mat material loose laid over the subfloor. Refer to manufacturer's instructions regarding the latest the subfloor of the s$ ninimum thickness of floor topping over each floor mat material.

Metal Lath — (Optional) — Expanded steel diamond mesh, 2.5 lb / sq vd loose laid over floor mat material.

Subflooring — Nom 15/32 in. thick wood structural panels installed perpendicular to the joists with end joints staggered. Plywood or

panels secured to joists with construction adhesive and No. 6d ringed shank nails, spaced 12 in. OC along each joist. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails.

psi. Refer to manufacturer's instructions accompanying the material for specific mix design. SIKA DEUTSCHLAND GMBH — Type SCHONOX AP Rapid Plus System No. 12

Subflooring — Nom 15/32 in, thick wood structural panels installed perpendicular to the joists with end joints staggered. Plywood or panels secured to joists with construction adhesive and No. 6d ringed shank nails, spaced 12 in. OC along each joist. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails.

Finish Flooring - Floor Topping Mixture* — Min 3/4 in. thickness of any Floor Topping Mixture bearing the UL Classification Marking as to Fire Resistance. See Floor- and Roof-Topping Mixtures (CCOX) category for names of Classified Companies. Refer to the manufacturer's instructions accompanying the material and/or contact the manufacturer's technical support for specific mix design

Fiberglass Mesh Reinforcement — (Optional) — Coated non-woven glass fiber mesh grid loose laid over floor mat material.

withdrawal and lateral resistance strength may be substituted for the 6d nails. Vapor Barrier — (Optional) — Nom 0.030 in. thick commercial asphalt saturated felt.

Roof-Topping Mixtures (CCOX) category for names of Classified Companies.

Fiberglass Mesh Reinforcement — (Optional) — Coated non-woven glass fiber mesh grid loose laid over floor mat material.

3. Wood Joists — 2 by 10 in., spaced 16 in. OC, firestopped. Spacing may increased to 24 in. OC when Item 7, Battens, are used.

4. Batts and Blankets* — (Optional) — Glass fiber or mineral wool insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance. - When the resilient channels (Item 5) or furring channels (Item 5B) are spaced 16 in. suspended in the concealed space with 0.090 in. diam galv steel wires attached to the wood trusses at 12 in. OC. When the resilient channels (Item 5) or furring channels (Item 5B) are spaced a max of 12 in. OC or when the Steel Framing Members (Item 5A) are used, there is no limit in the overall thickness of insulation, and the insulation can be secured against the subflooring, held suspended in the concealed space or draped over the resilient channels (or Steel Framing Members) and gypsum panel membrane.

4A. Loose Fill Material* or Sprayed Fiber* — As an alternate to Item 4, when the resilient channels (Item 5) or furring channels (Item 5B) are spaced a max of 12 in. OC or when the Steel Framing Members (Item 5A) are used - Any loose fill material bearing the UL Classification Marking for Surface Burning Characteristics. There is no limit in the overall thickness of insulation.

5. Resilient Channels — Nom 1/2 in. deep by 2-3/8 in. wide at the base and 1-3/8 in. wide at the face, formed from 0.020 in. thick galv steel. Installed perpendicular to the wood joists, spaced a max of 24 in. OC (16 in. OC when Item 6A, Type ULIX is used) when no insulation is fitted in the concealed space. Otherwise, the spacing shall be as specified under Item 4, 4A or 6B. Two courses of resilient channel positioned 6 in. OC at gypsum panel butt-joints (3 in. from each end of panel). Channels oriented opposite at panel buttjoints. Channel splices overlapped 4 in. beneath wood trusses. Channels secured to each truss with 1-1/4 in. long Type S screws.

5A. Alternate Steel Framing Members — (Not Shown) — As an alternate to Item 5, main runners, cross tees, cross channels and wall angle as listed below. a. Main Runners — Nom 10 or 12 ft long, 15/16 in, or 1-1/2 in, wide face, spaced 4 ft. OC. Main runners suspended by min 12 SWG galv steel hanger wires spaced 48 in. OC. Hanger wires to be located adjacent to main runner/cross tee intersections. Hanger wires wrapped and twist-tied on 16d nails driven in to side of joists at least 5 in. above the bottom face.

b. Cross Tees — Nom 4 ft long, 1-1/2 in. wide face, installed perpendicular to the main runners, spaced 16 in. OC. Additional cross tees or cross channels used at 8 in. from each side of butted gypsum panel end joints. The cross tees or cross channels may be riveted

c. Cross Channels — Nom 4 or 12 ft long, installed perpendicular to main runners, spaced 16 in. OC.

or screw attached to the wall angle or channel to facilitate the ceiling installation.

d. Wall Angle or Channel — Painted or galv steel angle with 1 in. legs or channel with 1 in. legs, 1-9/16 in. deep attached to walls at perimeter of ceiling with fasteners 16 in. OC. To support steel framing member ends and for screw-attachment of the gypsum panels. CGC INC — Type DGL or RX

USG INTERIORS LLC — Type DGL or RX

5B. Alternate Steel Framing Members* — (Not Shown) — As an alternate to Items 5 and 5A, furring channels and Steel Framing Members as described below. a. Furring Channels — Formed of No. 25 MSG galv steel, 2-9/16 in, or 2-23/32 in, wide by 7/8 in, deep, installed perpendicular to the wood joists, spaced a max of 24 in. OC (16 in. OC when Item 6A, Type ULIX is used) when no insulation is fitted in the concealed space. Otherwise, the spacing shall be as specified under Item 4, 4A or 6B. Channels secured to joists as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap.

b. Steel Framing Members* — Used to attach furring channels (Item a) to the wood joists (Item 2). RSIC-1 and RSIC-1 (2.75) clips secured to consecutive joists with No. 8 \times 2-1/2 in. coarse drywall screw through the center grommet. RSIC-V and RSIC-V (2.75) clips secured to consecutive joists with No. 8 x 1-1/2 in. coarse drywall screw through the center hole. Furring channels are friction-fitted into clips. RSIC-1 and RSIC-V clips for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) and RSIC-V (2.75) clips for use with 2-23/32 in, wide furring channels, Adjoining channels are overlapped as described in Item a, As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the

overlap, with one screw on each flange of the channel. Additional clips required to hold furring channel that supports the gypsum

Alternate Floor Mat Materials* — (Optional) — Floor mat material Nom. 3/4 in. thick loose laid over the subfloor. Floor topping thickness shall

Alternate Floor Mat Materials* — (Optional) — Floor mat material Nom. 1/8 in. thick loose laid over the subfloor. Floor topping thickness shall

Alternate Floor Mat Materials* — (Optional) — Floor mat material Nom. 1/4 in. entangled net core with a compressible fabric attached to the

System No. 5

Finish Flooring - Floor Topping Mixture* — Min 1 in. thickness of floor topping mixture having a min compressive strength of 1000 psi. Refer to

ARCOSA SPECIALTY MATERIALS — AccuCrete® Types NexGen, Green, Prime and PrePour, AccuRadiant®, AccuLevel® Types G40, G50 and SD30

Floor Mat Material* — (Optional) — Floor mat material nominal 2 - 9.5 mm thick loose laid over the subfloor. Floor topping shall be a min of 3/4

ARCOSA SPECIALTY MATERIALS — AccuQuiet® Types D13, D-18, D25, DX38, EM.125, EM.125S, EM.250, EM.250S, EM.375, EM.375S, EM.750, and

System No. 6

Subflooring — Min 15/32 in. thick T&G wood structural panels, min grade "Underlayment" or "Single-Floor". Face grain of plywood or strength

axis of panels to be perpendicular to the trusses with end joints staggered 4 ft. Panels secured to trusses with construction adhesive and No. 6d

Gypsum Board* — One layer of nom 5/8 in. thick, 4 ft wide gypsum board, installed with long dimension perpendicular to joists. Gypsum board

secured with 1 in. long No. 6 Type W bugle head steel screws spaced 12 in. OC and located a min of 1-1/2 in. from side and end joints. The joints

ringed shank nails spaced 12 in. OC along each truss. Staples having equal or greater withdrawal and lateral resistance strength may be

Floor Mat Materials* — (As an alternate to the single layer gypsum board) — Floor mat material loose laid over the subfloor.

Subflooring — Nom 15/32 in. thick wood structural panels installed perpendicular to the joists with end joints staggered. Plywood or panels

secured to joists with construction adhesive and No. 6d ringed shank nails, spaced 12 in. OC along each joist. Staples having equal or greater

KEENE BUILDING PRODUCTS CO INC — Type Quiet Qurl 65/075, Quiet Qurl 65/075 N

KEENE BUILDING PRODUCTS CO INC — Type Quiet Qurl 52/013 and Quiet Qurl 52/013 N

KEENE BUILDING PRODUCTS CO INC — Quiet Qurl 55/025 MT and Quiet Qurl 55/025 N MT

of the gypsum board are to be staggered a minimum of 12 inches from the joints of the subfloor.

GEORGIA-PACIFIC GYPSUM L L C — Type DS

MAXXON CORP — Type Encapsulated Sound Mat.

bottom loose laid over the subfloor. Floor topping thickness shall be a minimum of 1 in.

withdrawal and lateral resistance strength may be substituted for the 6d nails

manufacturer's instructions accompanying the material for specific mix design.

Vapor Barrier — (Optional) — Nom 0.030 in. thick commercial asphalt saturated felt

be a minimum of 1-1/2 in.

5C. Alternate Steel Framing Members* — (Not Shown) — As an alternate to Items 5, 5A and 5B, furring channels and Steel Framing Members as described below. a. Furring Channels — Formed of No. 25 MSG galv steel. 2-3/8 in. wide by 7/8 in. deep, installed perpendicular to the wood ioists. spaced a max of 24 in. OC (16 in. OC when Item 6A, Type ULIX is used) when no insulation is fitted in the concealed space. When insulation, Item 4 is applied over the resilient channel/gypsum panel ceiling membrane, the resilient channel spacing shall be reduced to 12 in. OC (16 in. OC when Item 6B, Type FSLX is used). Channels secured to joists as described in Item b. Ends of adjoining channels overlapped 6 in, and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap.

b. Steel Framing Members* — Used to attach furring channels (Item a) to the wood joists (Item 2). GenieClips secured to consecutive joists with No. 8 x 2-1/2 in. coarse drywall screw through the center grommet. When insulation, Item 4, is applied over the resilient channel/gypsum panel ceiling membrane, the clip spacing shall be reduced to 12 in. OC and secured to consecutive trusses. Furring channels are friction-fitted into clips. Adjoining channels are overlapped as described in Item a. As an alternate, ends of adjoining channels may be overlapped 6 in, and secured together with two self-tapping #6 framing screws, min, 7/16 in, long at the midpoint of the overlap, with one screw on each flange of the channel. Additional clips required to hold furring channel that supports the gypsum panel butt joints, as described in Item 6. Not evaluated for use with item 4A.

5D. Alternate Steel Framing Members* — (Not Shown) — As an alternate to items 5-5C, furring channels and Steel Framing Members as described below. a. Furring Channels — Formed of No. 25 MSG galv steel, 2-5/8 in. wide by 7/8 in deep, installed perpendicular to the wood joists, spaced a max of 24 in. OC (16 in. OC when Item 6A, Type ULIX is used) when no insulation is fitted in the concealed space. When insulation, Item 4 is applied over the resilient channel/gypsum panel ceiling membrane, the resilient channel spacing shall be reduced to 12 in. OC (16 in. OC when Item 6B, Type FSLX is used). Channels secured to joists as described in Item b.

b. Steel Framing Members* — Used to attach furring channels (Item a) to the wood joists (Item 2). Clips spaced at 48" OC and secured to the bottom of the joists with one 2 in. Coarse Drywall Screw with 1 in. diam washer through the center hole. When insulation, Item 4, is applied over the resilient channel/gypsum panel ceiling membrane, the clip spacing shall be reduced to 12 in. OC and secured to consecutive trusses Furring channels are then friction fitted into clips. Ends of channels are overlapped 6" and tied together with double strand of No. 18 AWG galvanized steel wire. Additional clips are required to hold the Gypsum Butt joints as **STUDCO BUILDING SYSTEMS** — RESILMOUNT Sound Isolation Clips - Type A237 or A237R

5E. **Steel Framing Members*** — (Optional, Not Shown) — As an alternate to Item 5. a. Furring Channels — Formed of No. 25 MSG galv steel, nominal 2-1/2 in. wide by 7/8 in. deep, spaced as indicated in Item 5, perpendicular to the joists. Channels secured to Cold Rolled Channels at every intersection with a 3/4 in. TEK screw through each furring channel leg. Ends of adjoining channels overlapped 12 in. and fastened together with two double strand No. 18 SWG galv steel wire ties, one at each end of overlap, or with two 3/4 in. TEK screws in each leg of the overlap section. Two furring channels used at end joints of gypsum board (Item 6), each extending a min of 6 in, beyond both side edges of the board.

b. Cold Rolled Channels — 1-1/2 in. by 1/2 in., formed from No. 16 ga. galv steel, positioned vertically and parallel to joists, frictionfitted into the channel caddy on the Steel Framing Members (Item 5Ec) and secured with two 3/4 in. TEK screws. Adjoining lengths of cold rolled channels lapped min. 12 in. and secured along bottom legs with four 3/4 in. TEK screws and wire-tied together with two double strand 18 SWG galv steel wire ties, one at each end of overlap.

c. Steel Framing Members* — Spaced 48 in. OC. max along joist, and secured to the joist on alternating joists with two, #10 x 1-1/2 in. screws through mounting holes on the hanger bracket. PAC INTERNATIONAL L L C — Type RSIC-SI-CRC EZ Clip

5F. **Steel Framing Members*** — (Optional, Not Shown) — As an alternate to Item 5. a. Furring Channels — Formed of No. 25 MSG galv steel, nominal 2-1/2 in. wide by 7/8 in. deep, spaced as indicated in Item 5, perpendicular to joists and friction fit into Steel Framing Members (Item 5Fb). Ends of adjoining channels overlapped 6 in. and tied

together with double strand of No. 18 SWG galv steel wire near each end of overlap or with two TEK screws along each leg of the 6 in. overlap. Two furring channels used at end joints of gypsum board (Item 6). Butt joint channels held in place by strong back channels placed upside down, on top of, and running perpendicular to primary furring channels, extending 6 in. longer than length of gypsum side joint. Strong back channels spaced maximum 48 in. OC. Strong back channels secured to every intersection of primary furring channels with four 7/16 in. pan head screws, two along each of the legs at intersections. Butt joint channels run perpendicular to strong back channels and shall be minimum 6 in. longer than length of joint, secured to strong back channels with 7/16 in. pan head screws, two along each of the legs at intersection with strong back channels.

b. Steel Framing Members* — Used to attach furring channels (Item 5Fa) to joists. Clips spaced 48 in. OC and secured along joist webs at each furring channel intersection with min. 3/4 in. long self-drilling #10 x 1-1/2 in. screws through each of the provided hole locations. Furring channels are friction fitted into clips. PAC INTERNATIONAL L L C — Type RSIC-S1-1 Ultra

5G. Steel Framing Members* — (Optional - Not Shown) — Used to attach resilient channels (Item 6) to joists (Item 3). Clips spaced 48 in. OC and secured to joists with one No. 8 x 2-1/2 in. coarse drywall screw through center grommet hole. Channels secured to clips with one #10 x 1/2 in, pan-head self-drilling screw. Ends of adjoining channels overlapped 6 in, and secured together with two #8 $15 \times 1/2$ in. Philips Modified screws spaced 2-1/2 in. from the center of the overlap. Gypsum board butt joints require additional resilient channels spaced 1-1/2 in. from the butt joint on either side. One edge of the extra channels will extend to an adjacent joist **KEENE BUILDING PRODUCTS CO INC** — Type RC+ Assurance Clip

5H. Steel Framing Members* — (Optional, Not Shown) — Used as an alternate method to attach resilient channels to structural members. A resilient sound isolation accessory shall be used at each attachment point of the resilient channels and spaced max 16 in. O.C. Channel ends butted and centered under the structural members and attached with one accessory at each end. Additional accessories used to hold resilient channels that support the gypsum board end joints. The accessory envelops the mounting edge of the resilient channel. The accessory and resilient channel are fastened to the structural members with the screws supplied with the accessory and per the accessory manufacturer's installation instructions. Gypsum Board butt joints staggered minimum 24 in, OC and Gypsum Board screws spaced 8 in. OC (in lieu of 12 in.) when used. PAC INTERNATIONAL L L C — Type RC-1 Boost

6. Gypsum Board* — Nom 5/8 in. thick, 48 in. wide gypsum panels. When resilient channels (Items 5) are used, gypsum panels installed with long dimension perpendicular to resilient channels. Gypsum panels secured with 1 in, long Type S bugle head steel screws spaced 12 in. OC and located a min of 1/2 in. from side joints and 3 in. from end joints. End joints secured to both resilient channels as shown in end joint detail. When Steel Framing Members (Item 5B, 5C) are used, gypsum panels installed with long dimensions perpendicular to furring channels. Panels attached to the furring channels using 1 in. long Type S bugle-head steel screws spaced 8 in. OC along butted end joints and in the field of the panels. Butted end joints shall be staggered min. 2 ft within the assembly, and occur midway between the continuous furring channels. Each end of each gypsum panel shall be supported by a single length of furring channel equal to the width of the gypsum panel plus 6 in, on each end. The two support furring channels shall be spaced approximately 3-1/2 in, OC, and be attached to underside of the joist with one clip at each end of the channel. When Steel Framing Members (Item 5A) are used, gypsum panels installed with long dimension perpendicular to cross tees with side joints centered along main runners and end joints centered along cross tees. Panels fastened to cross tees with 1 in. long Type S bugle-head steel screws spaced 8 in. OC in the field and 8 in. OC along end joints. Panels fastened to main runners with 1 in. long Type S buglehead steel screws spaced midway between cross tees. Screws along sides and ends of panels spaced 3/8 to 1/2 in. from panel edge. End joints of panels staggered on adjacent panels not less than 12 in. When Steel Framing Members (Item 5D) are used, one layer of nom 5/8 in, thick, 4 ft wide gypsum board is installed with long dimensions perpendicular to furring channels. Gypsum board secured to furring channels with nom 1 in. long Type S bugle-head steel screws spaced 8 in. OC in the field of the board. Gypsum board butted end joints shall be staggered minimum 48 in. and centered over main furring channels. At the gypsum board butt joints, each end of each gypsum board shall be supported by a single length of furring channel equal to the width of the gypsum board plus 3 in. on each end. The two support furring channels shall be spaced approximately 3 in. in from joint. Screw spacing along the gypsum board 성 butt joint and along both additional channels shall be 8 in. OC. Additional screws shall be placed in the adjacent section of gypsum board into the aforementioned 3 in. extension of the extra butt joint channels as well as into the main channel that runs between. Butt joint furring channels shall be attached with one RESILMOUNT Sound Isolation Clip at each end of the channel. When Steel Framing Members (Item 5E) are used, nom 5/8 in. thick, 4 ft wide gypsum board, installed as described in Item 6. Adjacent butt joints

When Steel Framing Members (Item 5F) are used, nom 5/8 in. thick, 4 ft wide gypsum board, installed as described in Item 6. Butt joints

₹COR3 Design, LLC Commercial, Office, Retail, Restaurant, Real Estate Developr

125 Rhett Street

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Consultants: STRUCTURAL Taylor and Viola Structural Engineers PO Box 2616

Hickory, NC 28603 828.328.6331 PLUMBING LWI Consulting Engineers

Greenville, SC 29601 864.271.6535

870 Cleveland St, STE 1D MECHANICAL LWI Consulting Engineers 870 Cleveland St, STE 1D Greenville, SC 29601

864.271.6535 ELECTRICAL Matrix Engineering, INC 912 S Pine Street Spartanburg, SC 29302 864.583.6274



GREENVILLE, SC

10.16.2024 Issue For Permit 03.20.2025 100% Issue For Hilton

Project Number 23112 Phase: CD 04.22.2024 Drawn By:

Checked Bv

Sheet Number:

UL CUT SHEETS

NATIONAL GYPSUM CO — Type FSW-C, eXP-C, FSK-C, FSMR-C UNITED STATES GYPSUM CO — Types C, IP-X2, IPC-AR USG BORAL DRYWALL SFZ LLC — Type C **USG MEXICO S A DE C V** — Types C, IP-X2, IPC-AR 6A. Gypsum Board* (As an alternative to Item 6) — Nom 5/8 in. thick, 48 in. wide gypsum board, installed and secured as described in Item 6 with max screw spacing 8 in. OC. CGC INC — ULIX UNITED STATES GYPSUM CO — ULIX 6B. Gypsum Board* (As an alternative to Item 6) — When used, Resilient Channels (Item 5) or Furring Channels (Item 5B) spaced max 16 in. OC and Batts and Blankets (Item 4) draped over the Resilient Channels (or Steel Framing Members). May also be used with item 4A at same channel spacing. Nom 5/8 in. thick, 48 in. wide gypsum board, installed and secured as described in Item 6 with max screw spacing of 8 in. OC. Butted NATIONAL GYPSUM CO — Type FSLX 7. Battens — Nom 6 by 22-1/2 by 5/8 in. thick pieces of gypsum board (Item 6) centered under subfloor joints and fastened with staples spaced 7 in. OC along each edge. Staples formed of 16 SWG (0.062 in. thick) steel with 1-1/8 in. legs and 1/2 in. crown, driven flush with gypsum board batten strips. The battens and staples are optional when the finish flooring consists of Floor Topping

CGC INC — Types C, IP-X2, IPC-AR

GEORGIA-PACIFIC GYPSUM L L C — Types 5, DAPC, TG-C

applied to the entire surface of gypsum panels. * Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification Last Updated on 2022-05-30 The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured

8. Finishing System — (Not Shown) — Vinyl, dry or premixed joint compound, applied in two coats to joints and screw-heads. Nom 2 in, wide paper tape embedded in first layer of compound over all joints. As an alternate, nom 3/32 in, thick veneer plaster may be

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Finish Flooring - Floor Topping Mixture* — Min 1 in. thickness of floor topping mixture having a min compressive strength of 4500

Vapor Barrier — (Optional) - Commercial asphalt saturated felt, 0.030 in. thick.

Vapor Barrier — (Optional) - Nom 0.010 in. thick commercial rosin-sized building paper. and minimum thickness recommended for use with eligible floor mat(s).

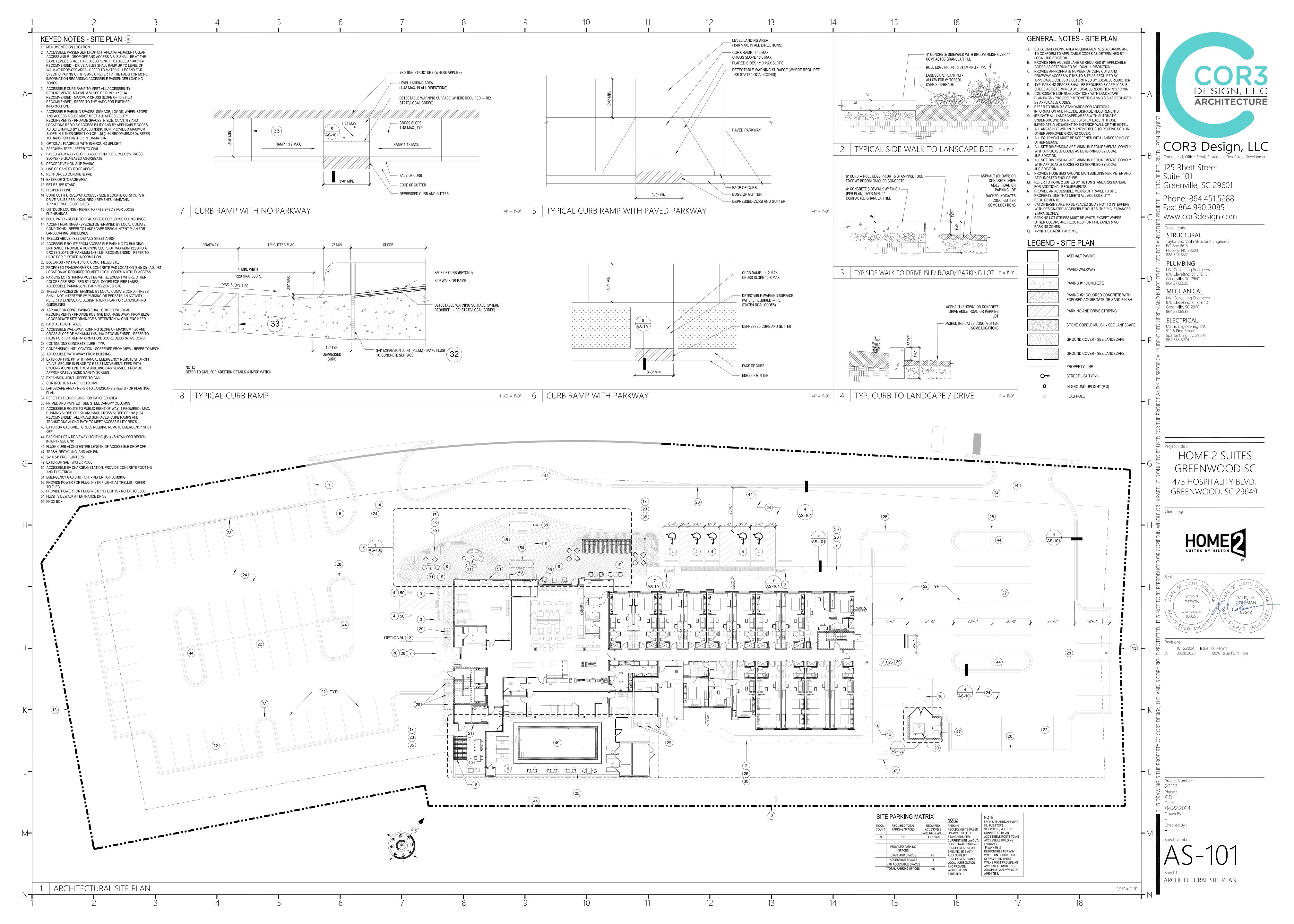
Floor Mat Materials* — (Optional, Not Shown) - Floor mat material loose laid over the subfloor. Refer to manufacturer's instructions regarding the minimum thickness of floor topping over each floor mat material. LOW & BONAR INC — EnkaSonic® by Colbond a member of the Low & Bonar group Types 125, 250, 250 Plus, 400, 400 Plus, 750 and 750 Plus. Floor Mat Reinforcement — (Optional) - Refer to manufacturer's instructions regarding minimum thickness of floor topping for use

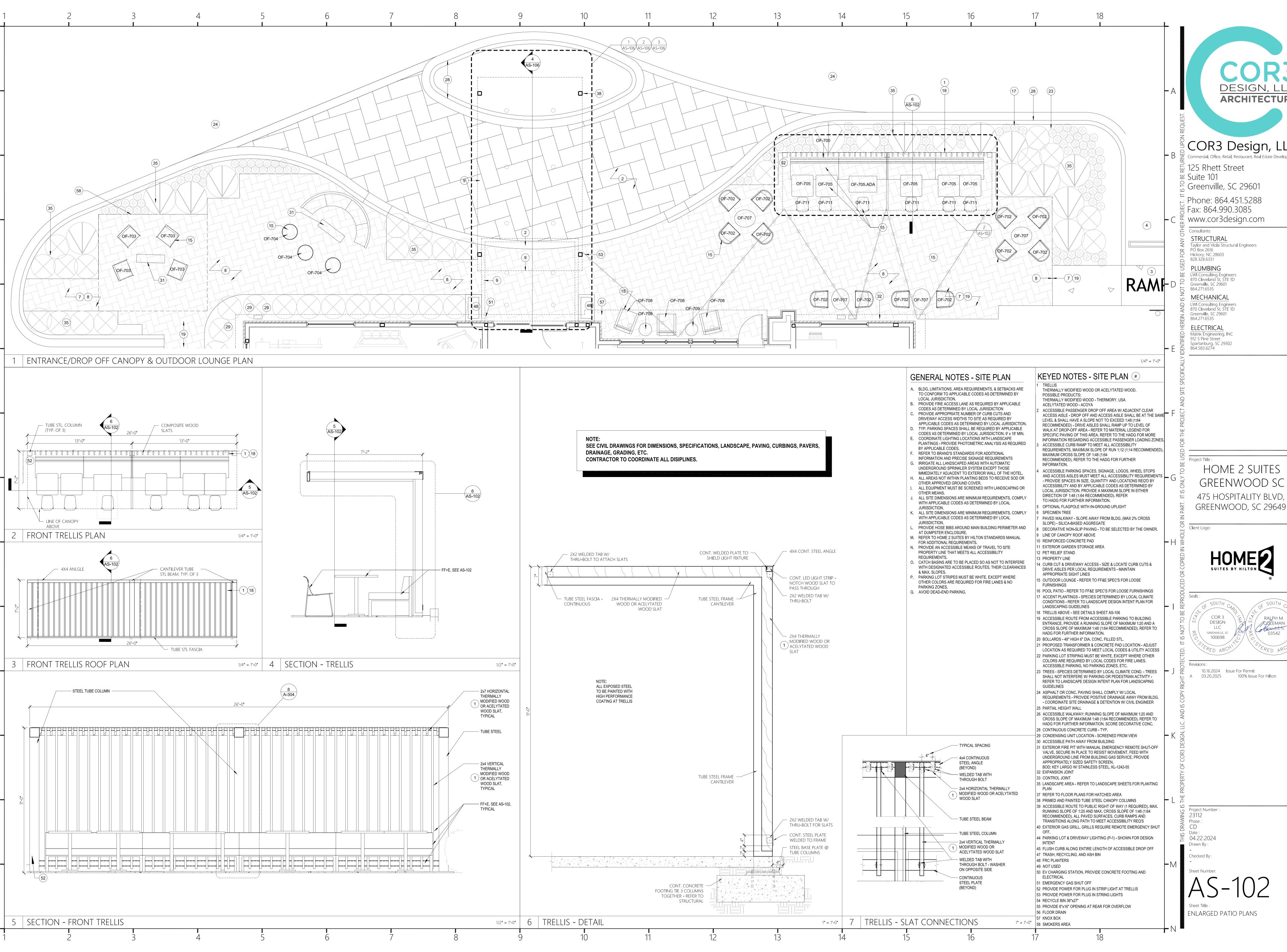
Metal Lath — (Optional) — Expanded steel diamond mesh, 2.5 lb / sq yd loose laid over floor mat material.

Subflooring — Nom 15/32 in, thick wood structural panels installed perpendicular to the joists with end joints staggered. Plywood or panels secured to joists with construction adhesive and No. 6d ringed shank nails, spaced 12 in. OC along each joist. Staples having equal or greater

Floor Mat Materials* — (Optional) — Floor mat material loose laid over the subfloor. Refer to manufacturer's instructions regarding the minimum thickness of floor topping over each floor mat material. **GRASSWORX L L C** — SC Types

Finish Flooring* — Min 3/4 in. thickness of any Floor Topping Mixture bearing the UL Classification Marking as to Fire Resistance. See Floor- and Floor Mat Reinforcement — (Optional) - Refer to manufacturer's instructions regarding minimum thickness of floor topping for use with floor





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Greenville, SC 29601 864.271.6535 ELECTRICAL

Matrix Engineering, INC 912 S Pine Street Spartanburg, SC 29302 864.583.6274

> HOME 2 SUITES GREENWOOD SC 475 HOSPITALITY BLVD,

Client Logo:



Seals : COR 3 DESIGN GREENVILLE, SC 100698

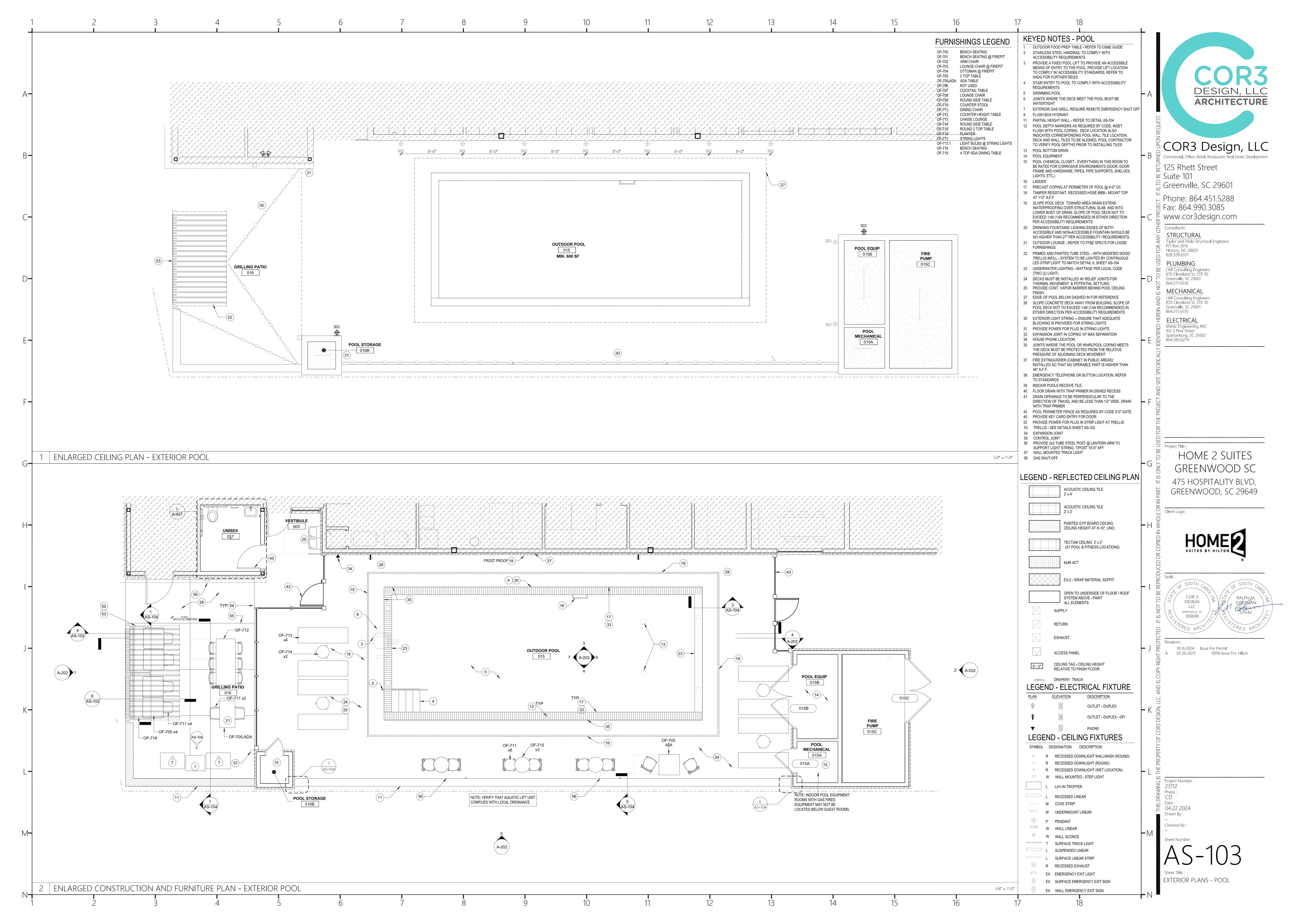
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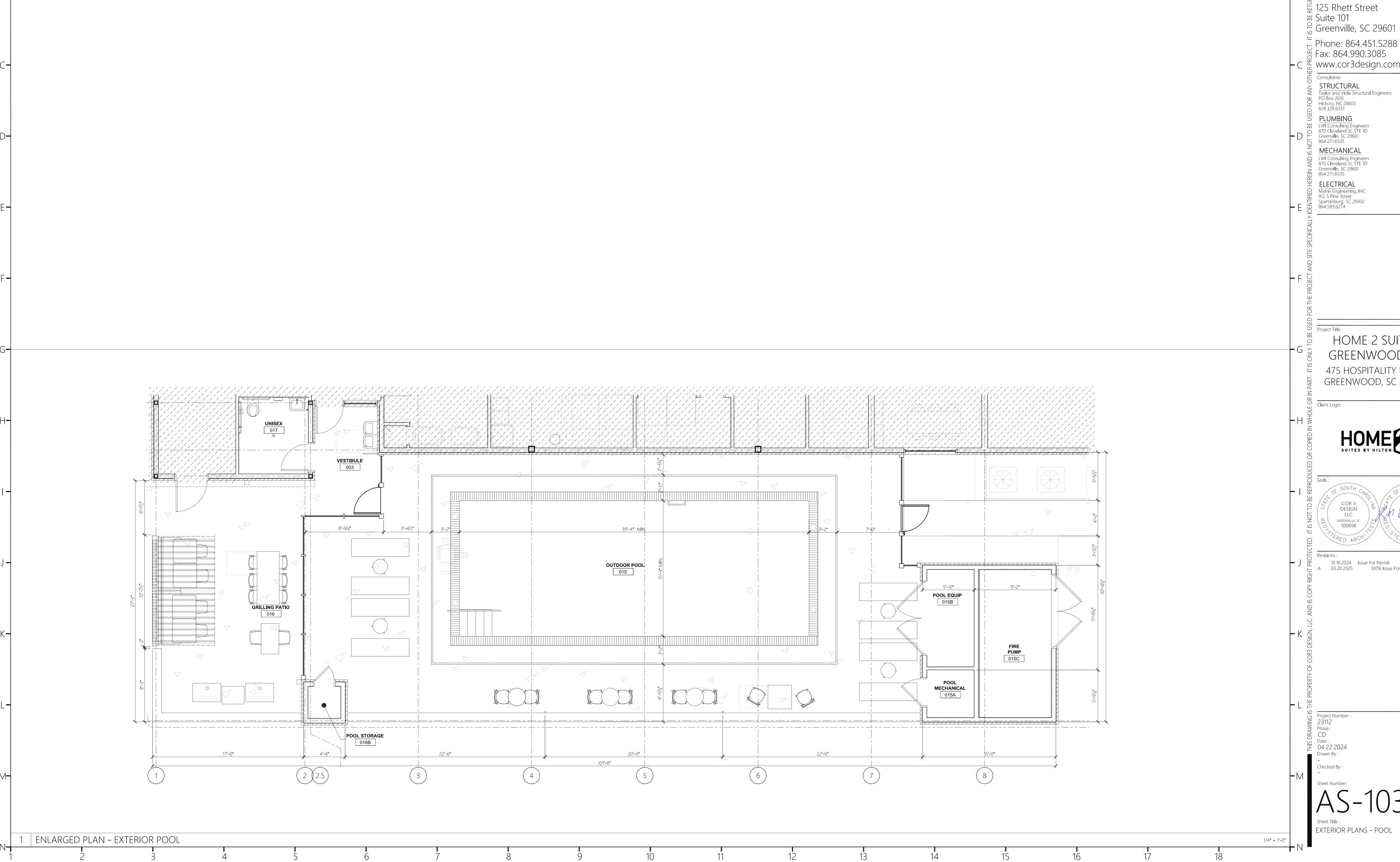
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PLUMBING

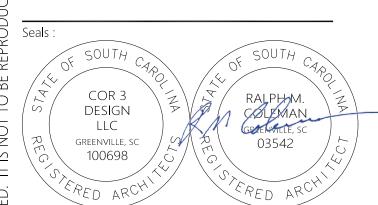
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864.271.6535

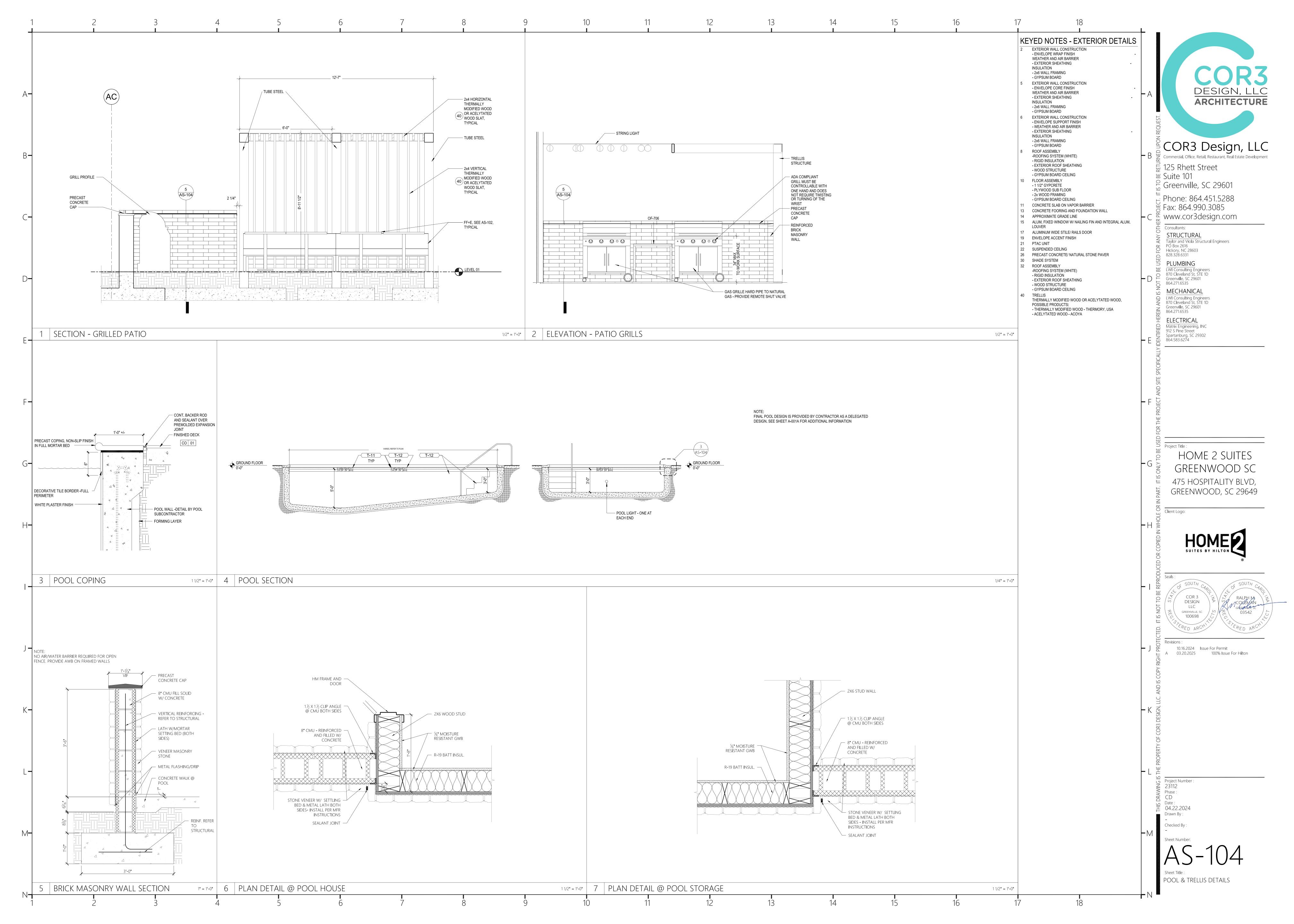
ELECTRICAL
Matrix Engineering, INC
912 S Pine Street
Spartanburg, SC 29302
864.583.6274

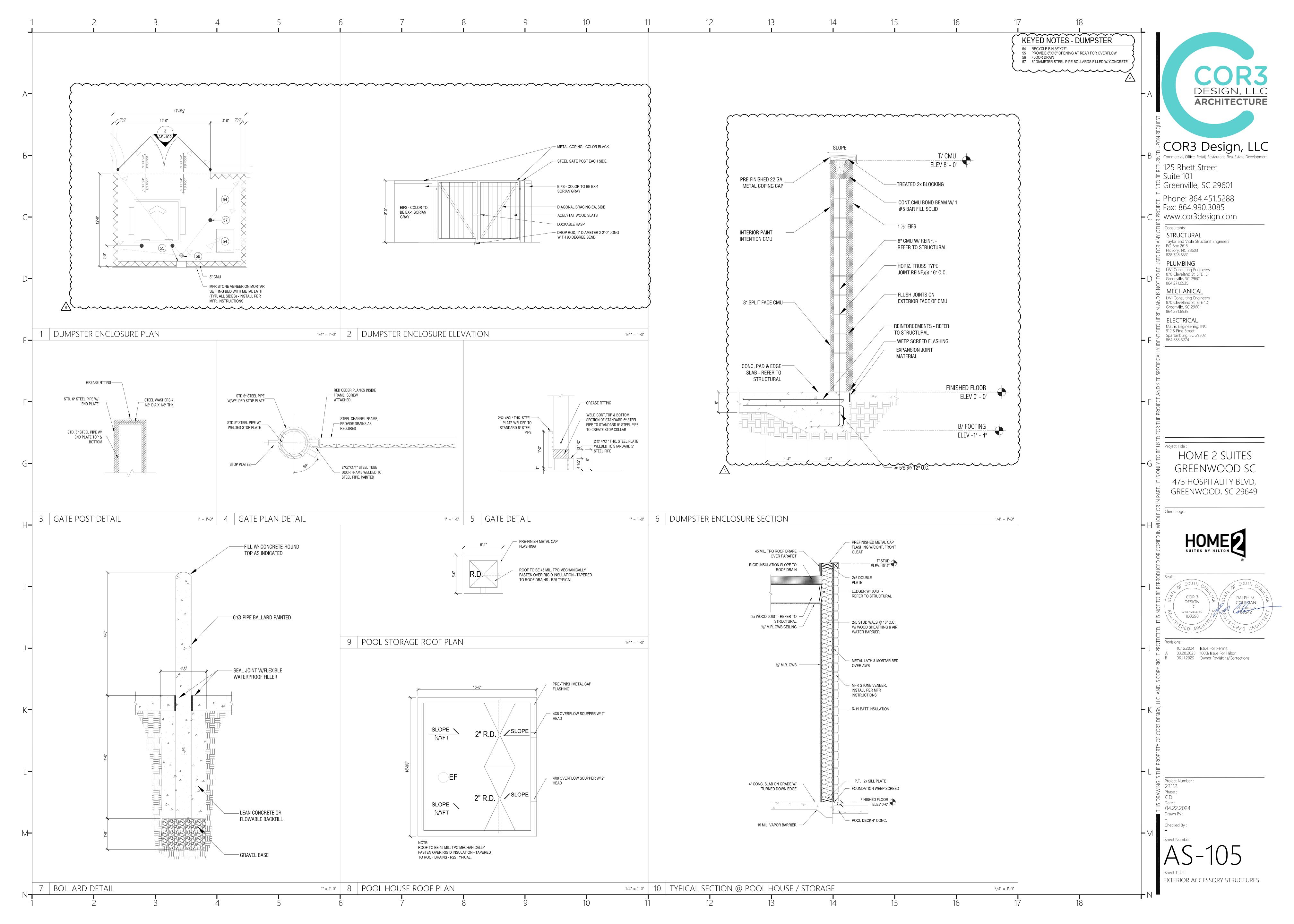
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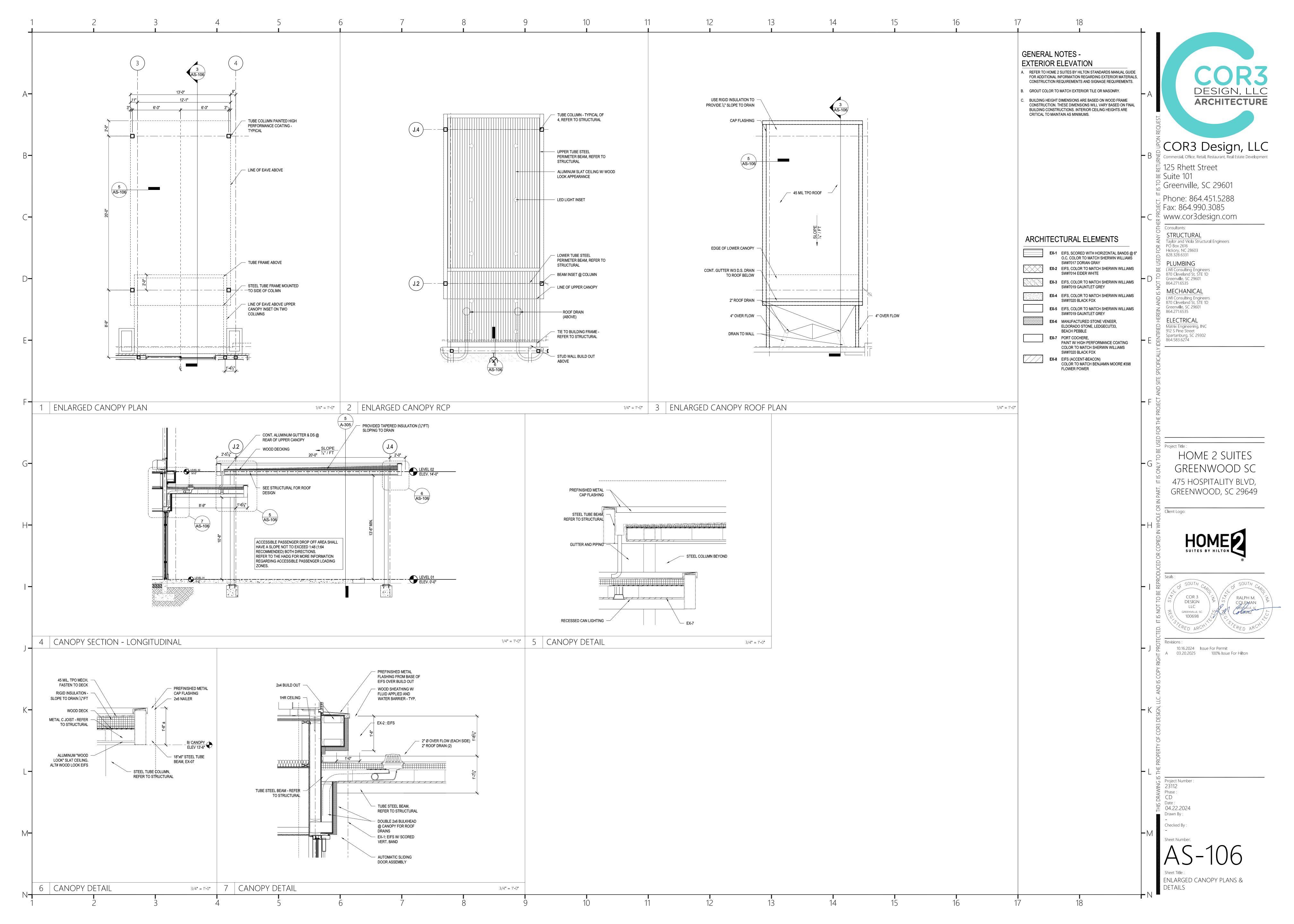
GREENWOOD SC 475 HOSPITALITY BLVD, GREENWOOD, SC 29649

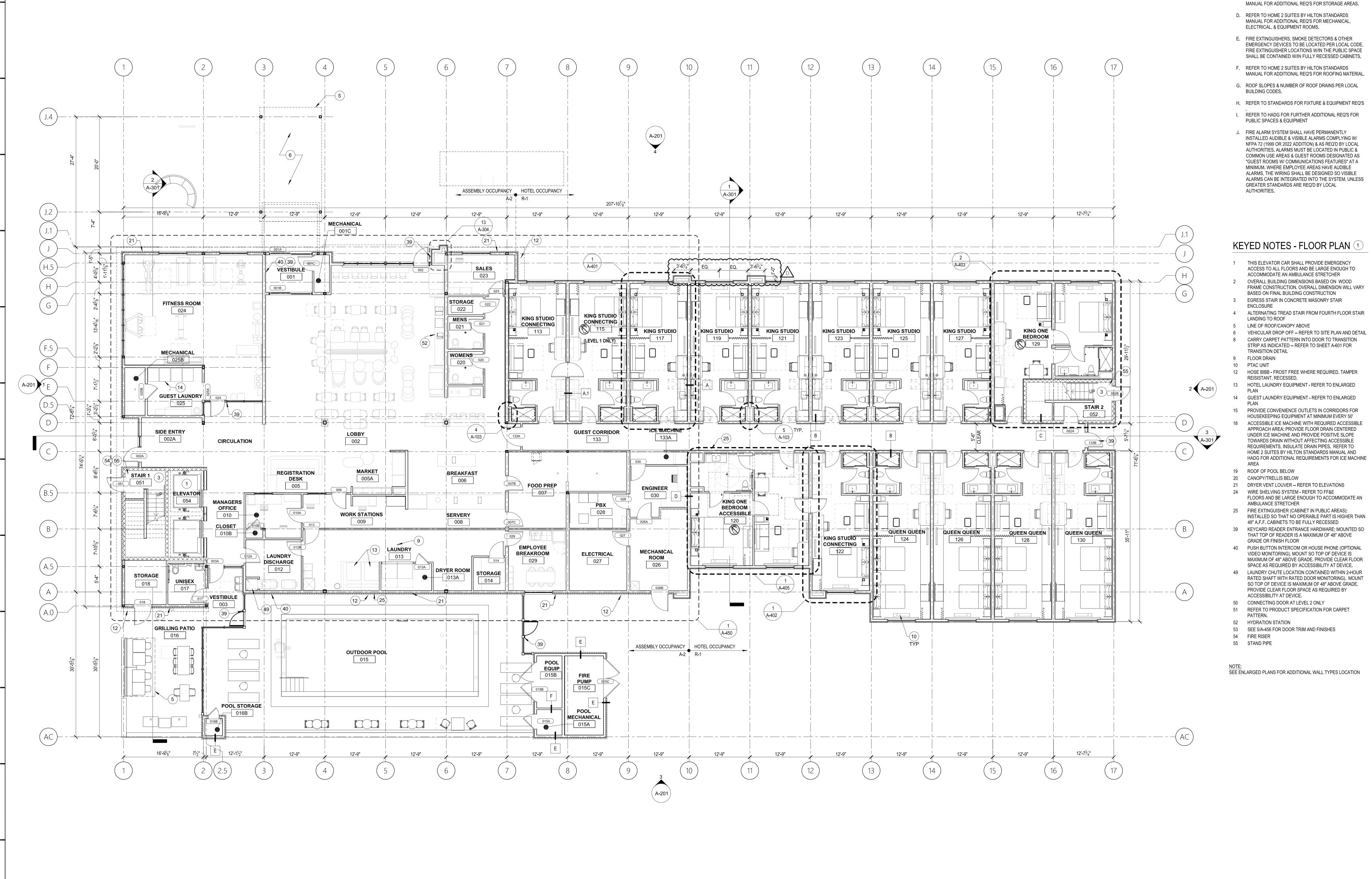


10.16.2024 Issue For Permit A 03.20.2025 100% Issue For Hilton









GENERAL NOTES - FLOOR PLAN

- A. REFER TO ENLARGED GUEST ROOM PLANS A-401-A-412 & ENLARGED PLANS FOR DOOR TAGS AND TYPES. B. REFER TO HOME 2 SUITES BY HILTON STANDARDS
- MANUAL FOR ADDITIONAL REQ'S FOR PASSENGER ELEVATORS, ELEVATOR LOBBIES & CORRIDORS.
- C. REFER TO HOME 2 SUITES BY HILTON STANDARDS MANUAL FOR ADDITIONAL REQ'S FOR STORAGE AREAS.
- D. REFER TO HOME 2 SUITES BY HILTON STANDARDS MANUAL FOR ADDITIONAL REQ'S FOR MECHANICAL,
- E. FIRE EXTINGUISHERS, SMOKE DETECTORS & OTHER EMERGENCY DEVICES TO BE LOCATED PER LOCAL CODE. FIRE EXTINGUISHER LOCATIONS W/IN THE PUBLIC SPACE SHALL BE CONTAINED W/IN FULLY RECESSED CABINETS.
- MANUAL FOR ADDITIONAL REQ'S FOR ROOFING MATERIAL. G. ROOF SLOPES & NUMBER OF ROOF DRAINS PER LOCAL
- H. REFER TO STANDARDS FOR FIXTURE & EQUIPMENT REQ'S I. REFER TO HADG FOR FURTHER ADDITIONAL REQ'S FOR
- J. FIRE ALARM SYSTEM SHALL HAVE PERMANENTLY INSTALLED AUDIBLE & VISIBLE ALARMS COMPLYING W/ NFPA 72 (1999 OR 2022 ADDITION) & AS REQ'D BY LOCAL AUTHORITIES. ALARMS MUST BE LOCATED IN PUBLIC & COMMON USE AREAS & GUEST ROOMS DESIGNATED AS "GUEST ROOMS W/ COMMUNICATIONS FEATURES" AT A MINIMUM. WHERE EMPLOYEE AREAS HAVE AUDIBLE ALARMS, THE WIRING SHALL BE DESIGNED SO VISIBLE ALARMS CAN BE INTEGRATED INTO THE SYSTEM, UNLESS GREATER STANDARDS ARE REQ'D BY LOCAL

KEYED NOTES - FLOOR PLAN ①

- 1 THIS ELEVATOR CAR SHALL PROVIDE EMERGENCY ACCESS TO ALL FLOORS AND BE LARGE ENOUGH TO ACCOMMODATE AN AMBULANCE STRETCHER OVERALL BUILDING DIMENSIONS BASED ON WOOD FRAME CONSTRUCTION. OVERALL DIMENSION WILL VARY
- 4 ALTERNATING TREAD STAIR FROM FOURTH FLOOR STAIR
- VEHICULAR DROP OFF -- REFER TO SITE PLAN AND DETAIL CARRY CARPET PATTERN INTO DOOR TO TRANSITION STRIP AS INDICATED -- REFER TO SHEET A-601 FOR
- 12 HOSE BIBB FROST FREE WHERE REQUIRED. TAMPER
- HOTEL LAUNDRY EQUIPMENT REFER TO ENLARGED
- 15 PROVIDE CONVENIENCE OUTLETS IN CORRIDORS FOR HOUSEKEEPING EQUIPMENT AT MINIMUM EVERY 50' ACCESSIBLE ICE MACHINE WITH REQUIRED ACCESSIBLE APPROACH AREA: PROVIDE FLOOR DRAIN CENTERED UNDER ICE MACHINE AND PROVIDE POSITIVE SLOPE TOWARDS DRAIN WITHOUT AFFECTING ACCESSIBLE REQUIREMENTS, INSULATE DRAIN PIPES. REFER TO
- 21 DRYER VENT LOUVER -- REFER TO ELEVATIONS 24 WIRE SHELVING SYSTEM - REFER TO FF&E FLOORS AND BE LARGE ENOUGH TO ACCOMMODATE AN
- 25 FIRE EXTINGUISHER (CABINET IN PUBLIC AREAS); INSTALLED SO THAT NO OPERABLE PART IS HIGHER THAN 48" A.F.F. CABINETS TO BE FULLY RECESSED 39 KEYCARD READER ENTRANCE HARDWARE; MOUNTED SO THAT TOP OF READER IS A MAXIMUM OF 48" ABOVE
- 40 PUSH BUTTON INTERCOM OR HOUSE PHONE (OPTIONAL VIDEO MONITORING). MOUNT SO TOP OF DEVICE IS MAXIMUM OF 48" ABOVE GRADE. PROVIDE CLEAR FLOOR SPACE AS REQUIRED BY ACCESSIBILITY AT DEVICE. 49 LAUNDRY CHUTE LOCATION CONTAINED WITHIN 2-HOUR RATED SHAFT WITH RATED DOOR MONITORING). MOUNT SO TOP OF DEVICE IS MAXIMUM OF 48" ABOVE GRADE.
- ACCESSIBILITY AT DEVICE. 50 CONNECTING DOOR AT LEVEL 2 ONLY
- 51 REFER TO PRODUCT SPECIFICATION FOR CARPET
- 53 SEE 5/A-456 FOR DOOR TRIM AND FINISHES

SEE ENLARGED PLANS FOR ADDITIONAL WALL TYPES LOCATION



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Matrix Engineering, INC 912 S Pine Street Spartanburg, SC 29302 864.583.6274

> 475 HOSPITALITY BLVD, GREENWOOD, SC 29649

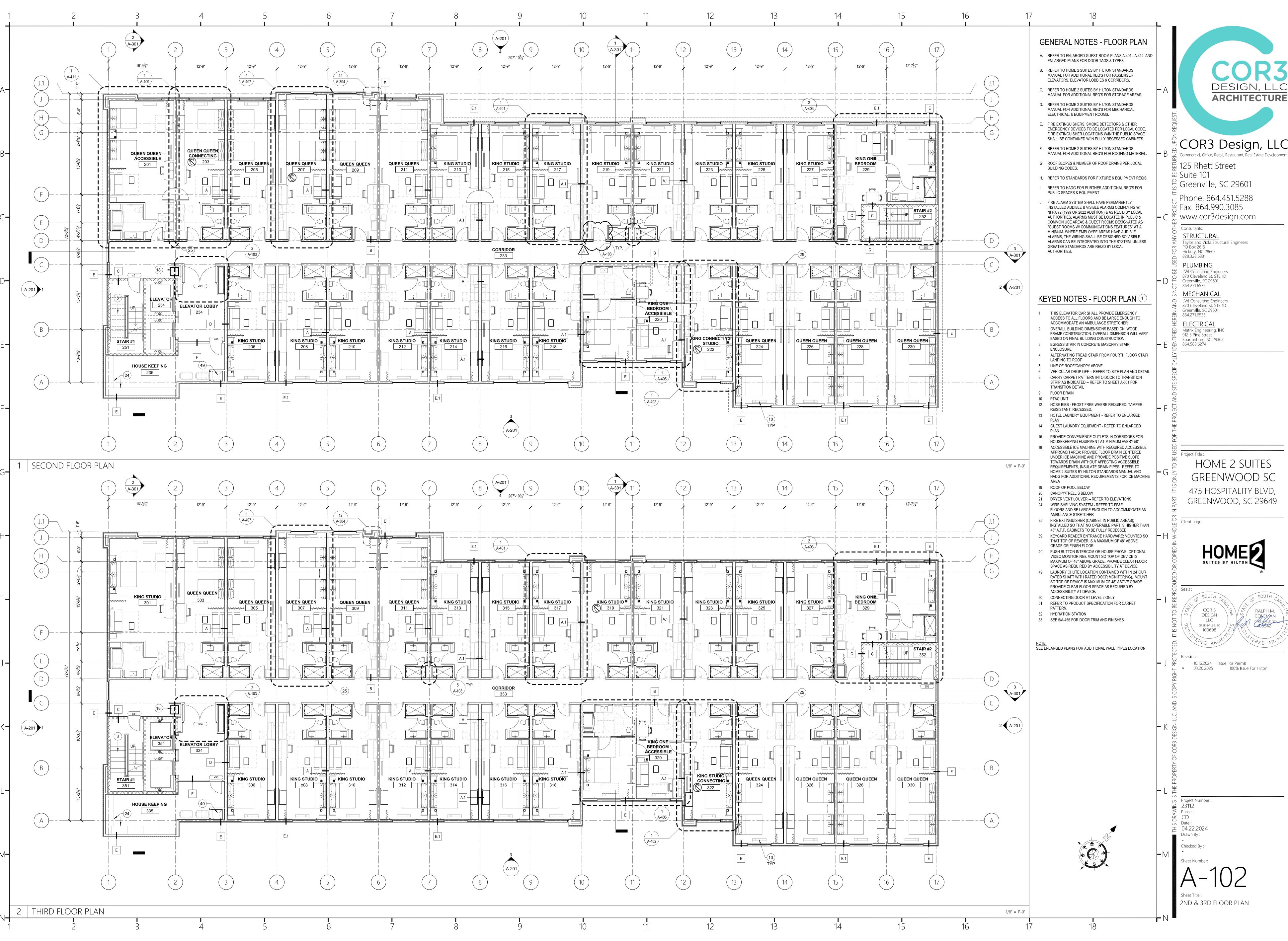
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Project Number : 23112
Phase : CD
Date :

OVERALL FLOOR PLAN





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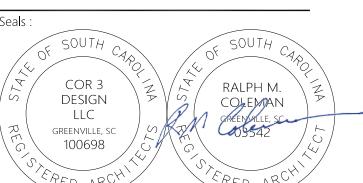
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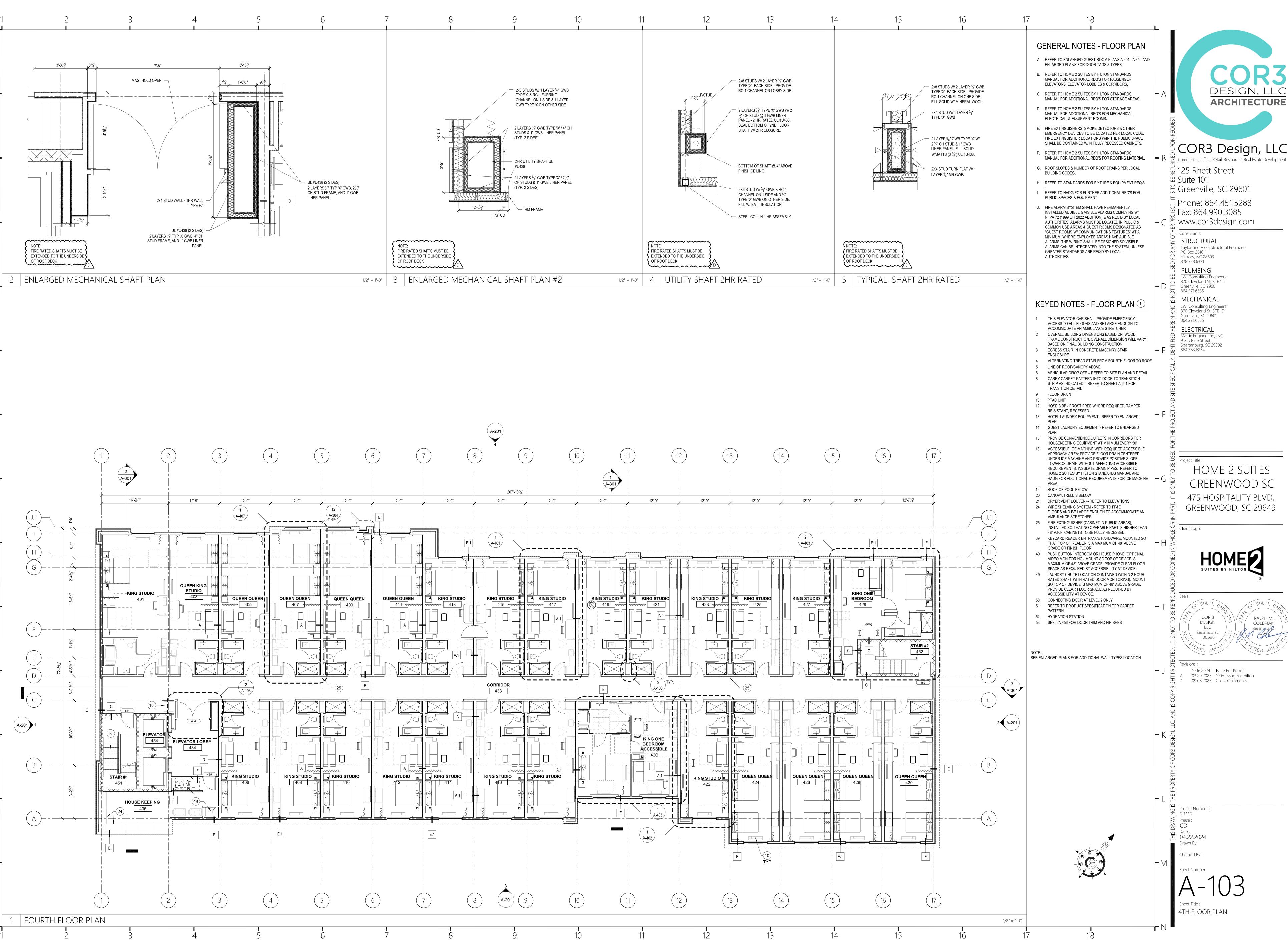
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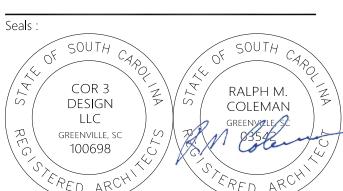
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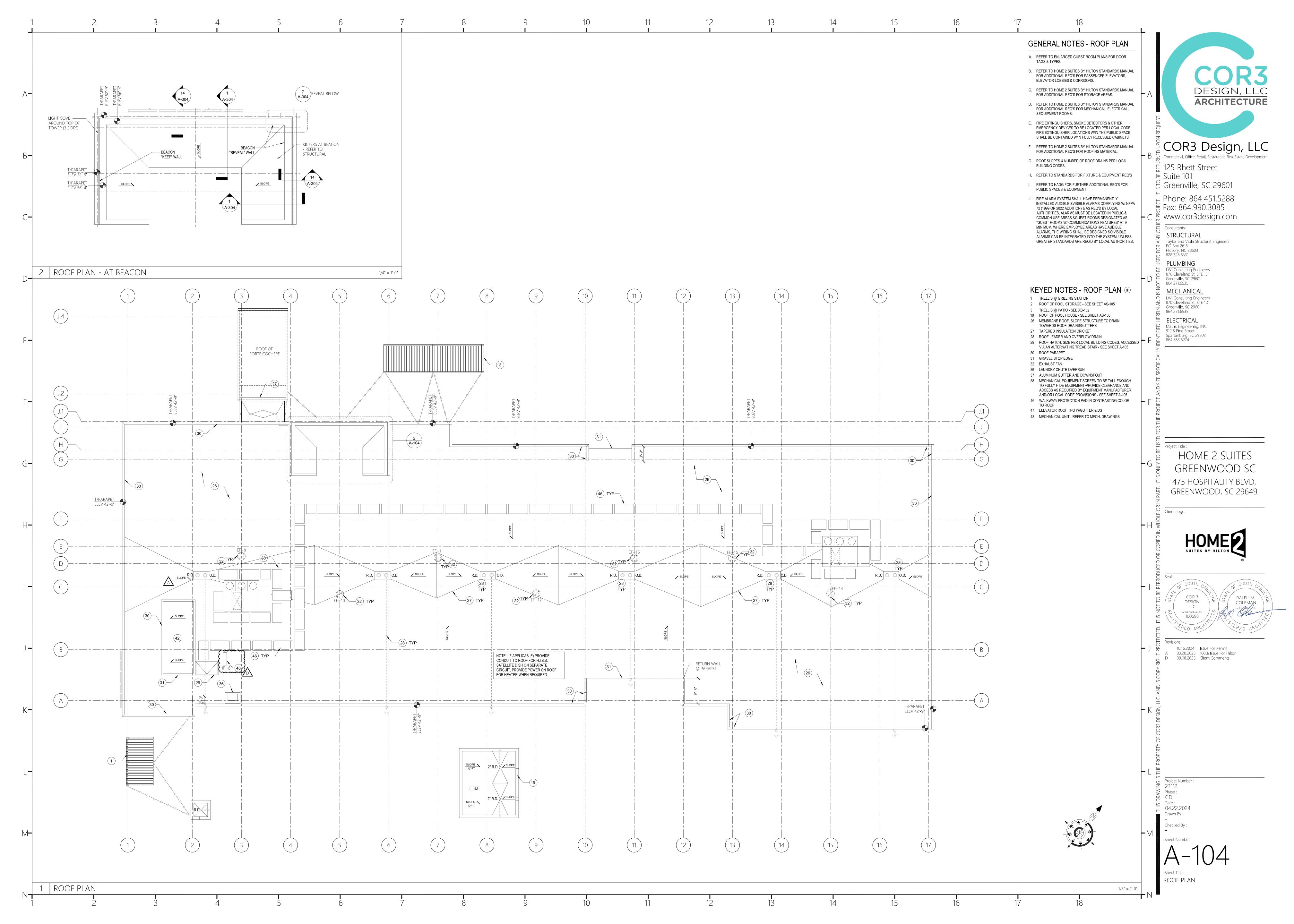
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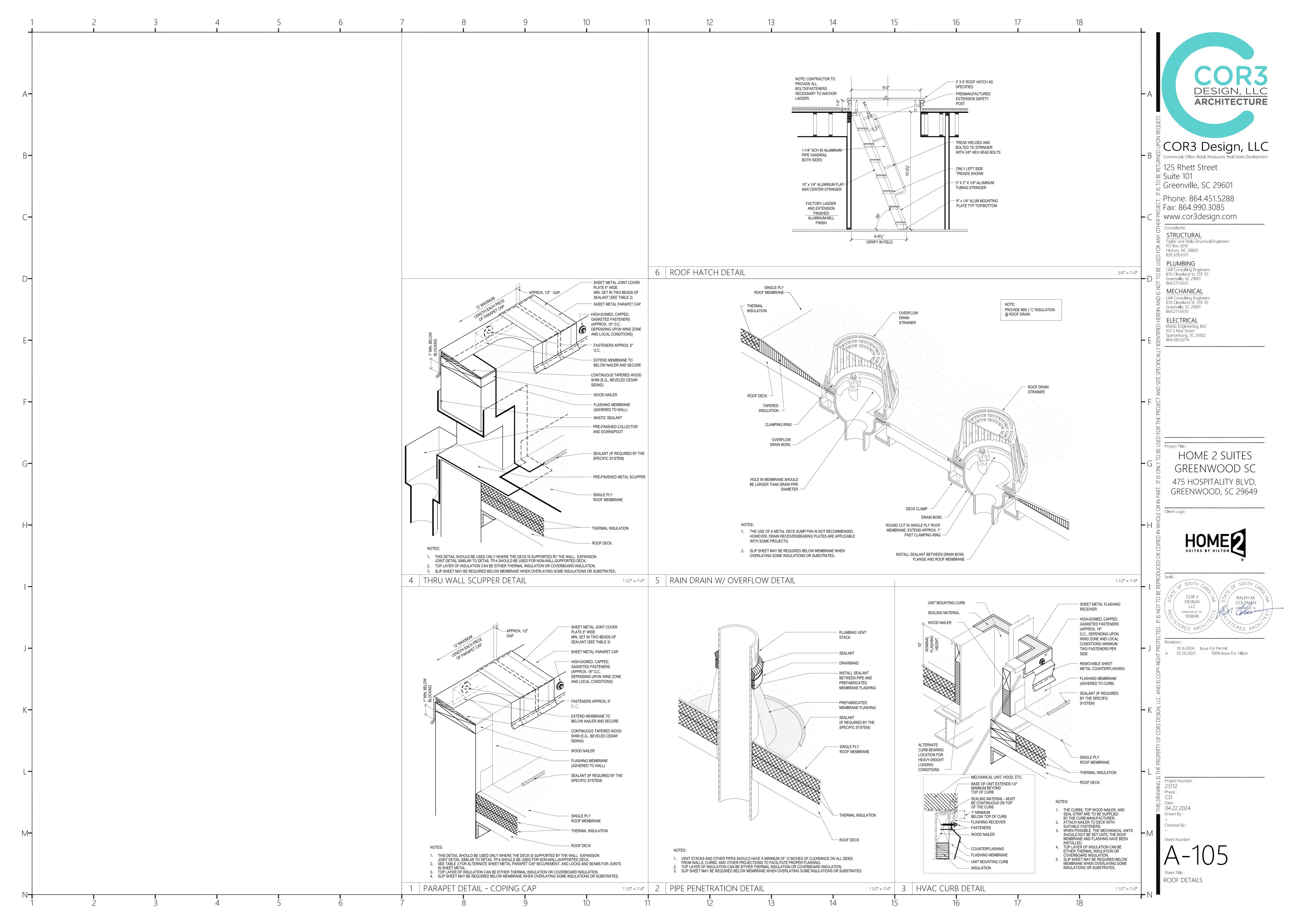
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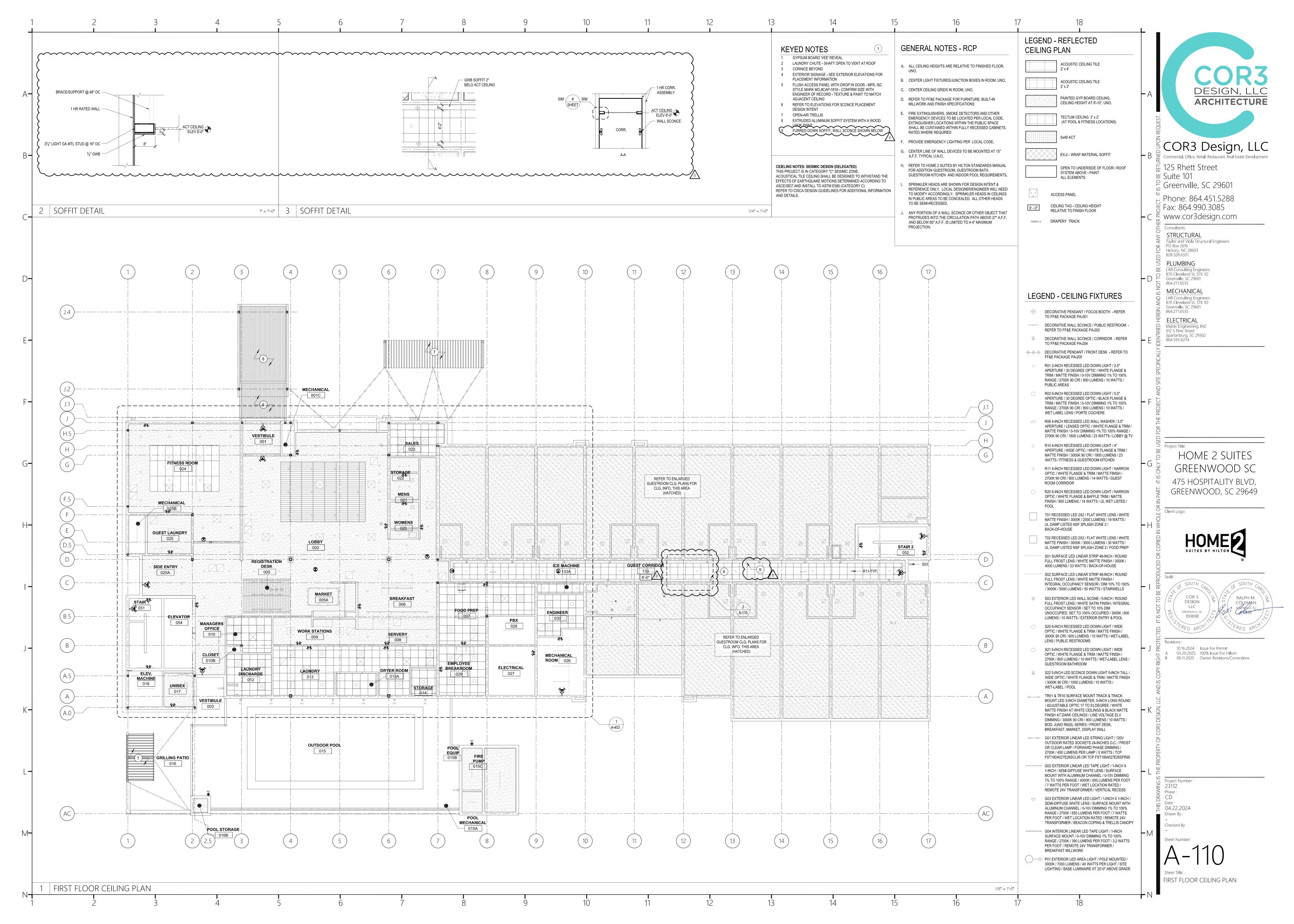
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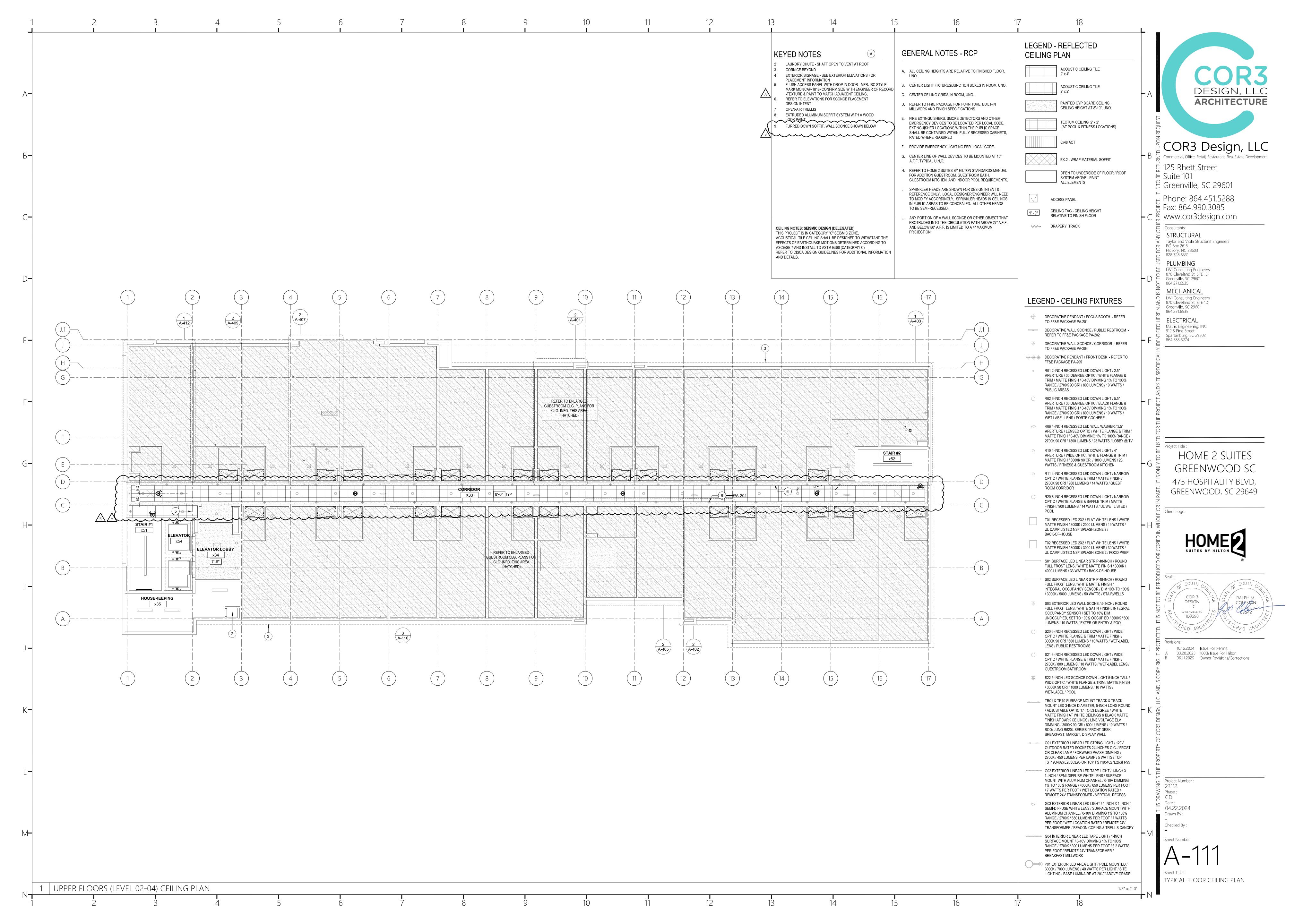


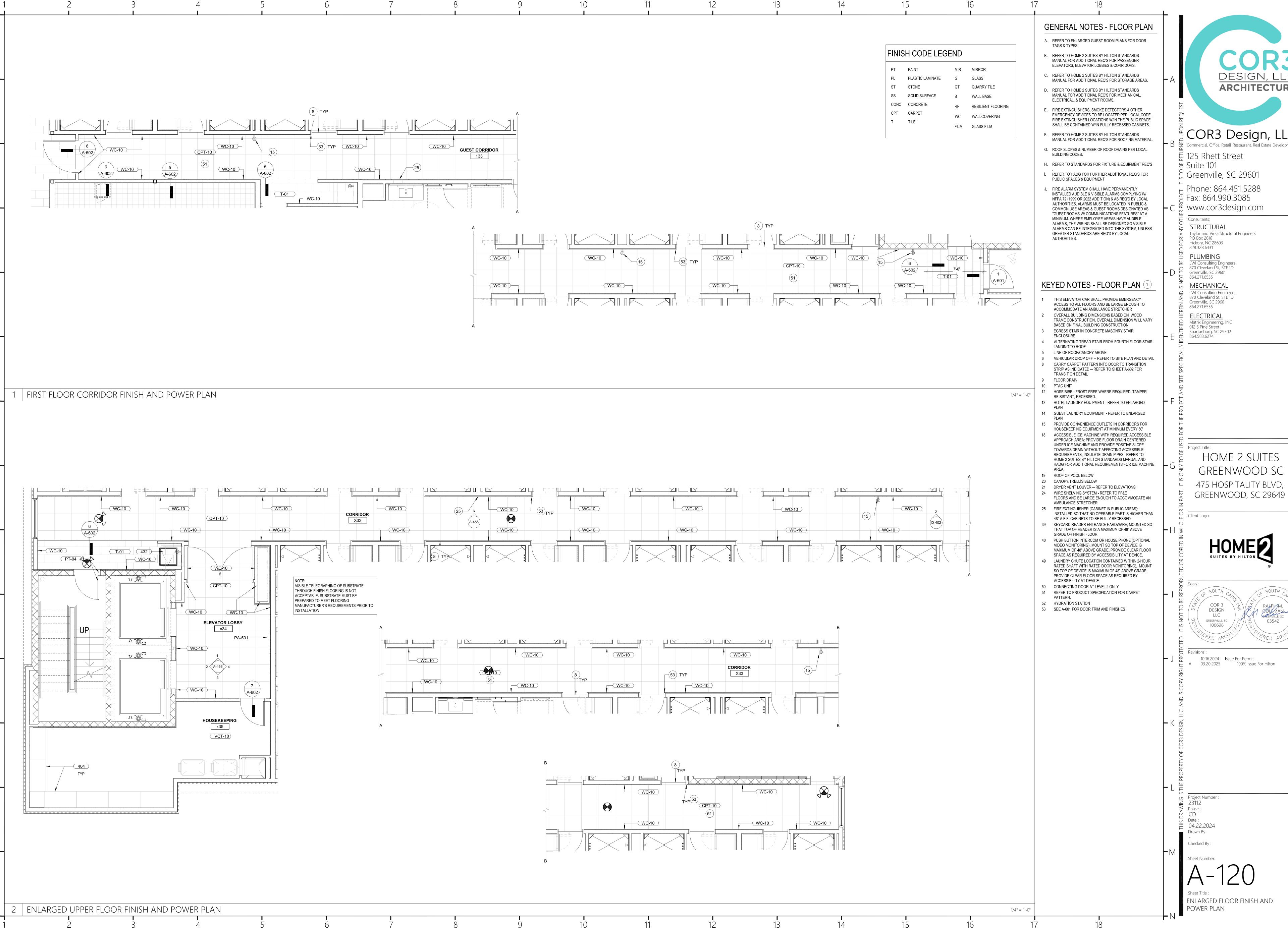
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864.271.6535 ELECTRICAL Matrix Engineering, INC

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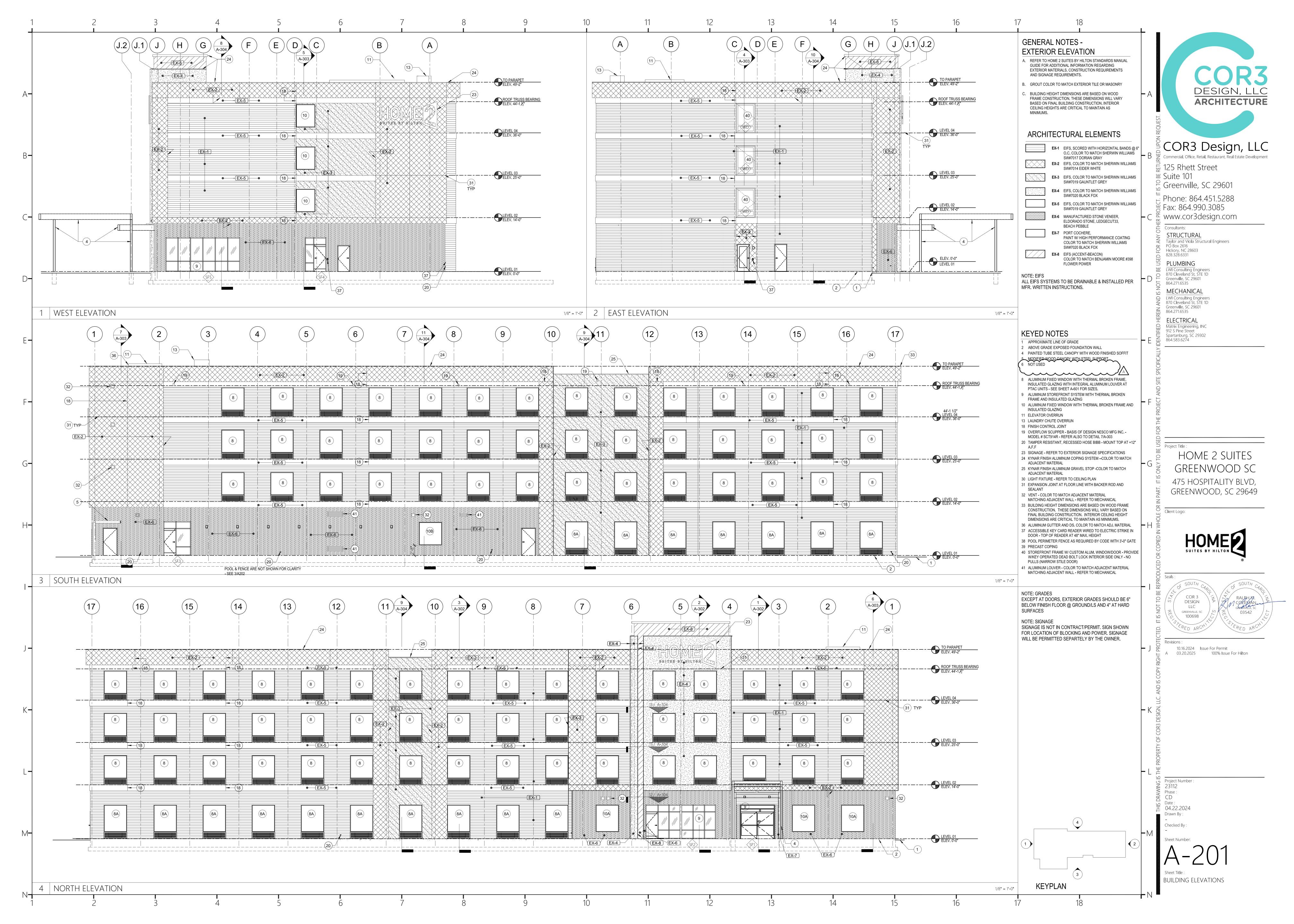


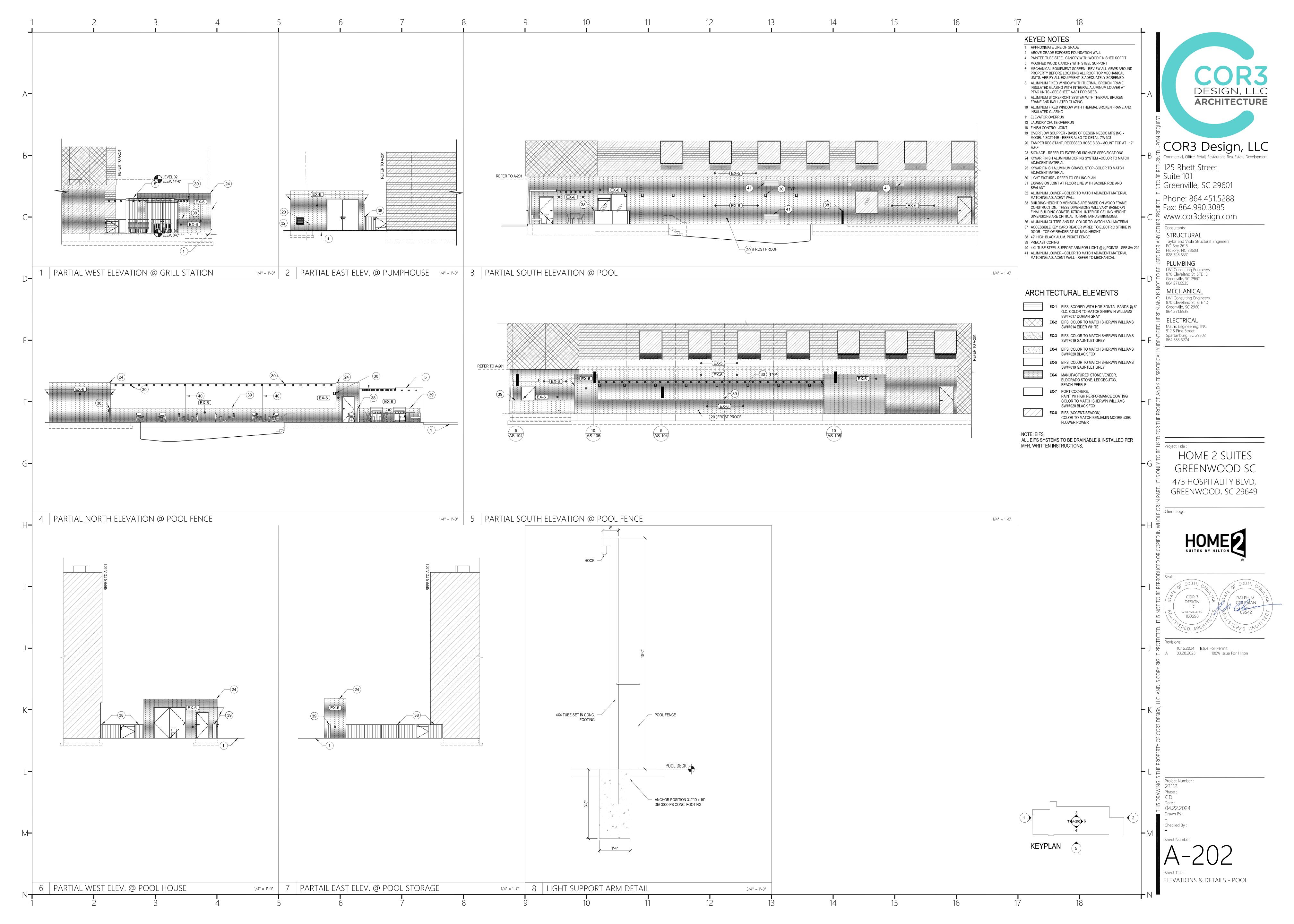


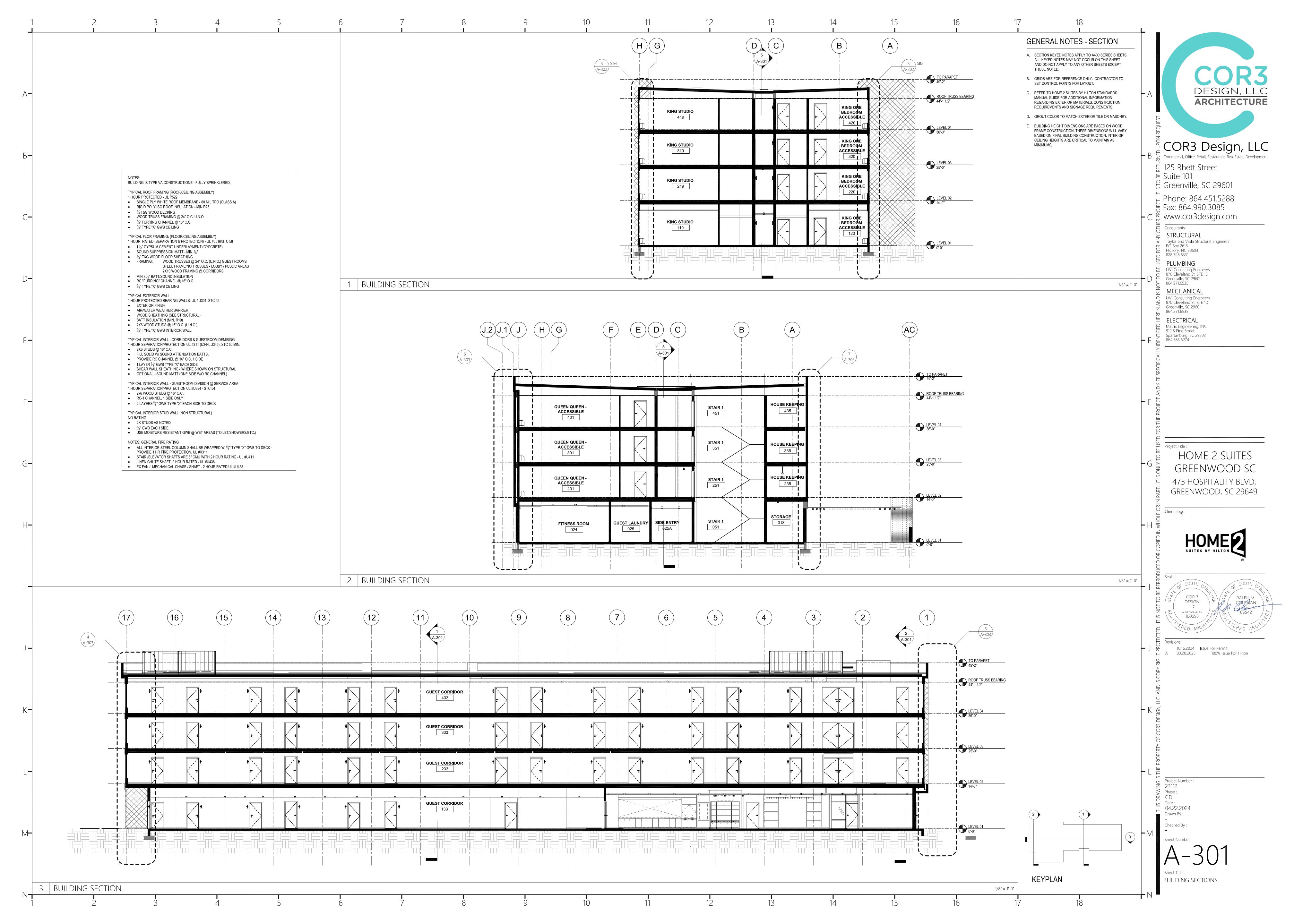
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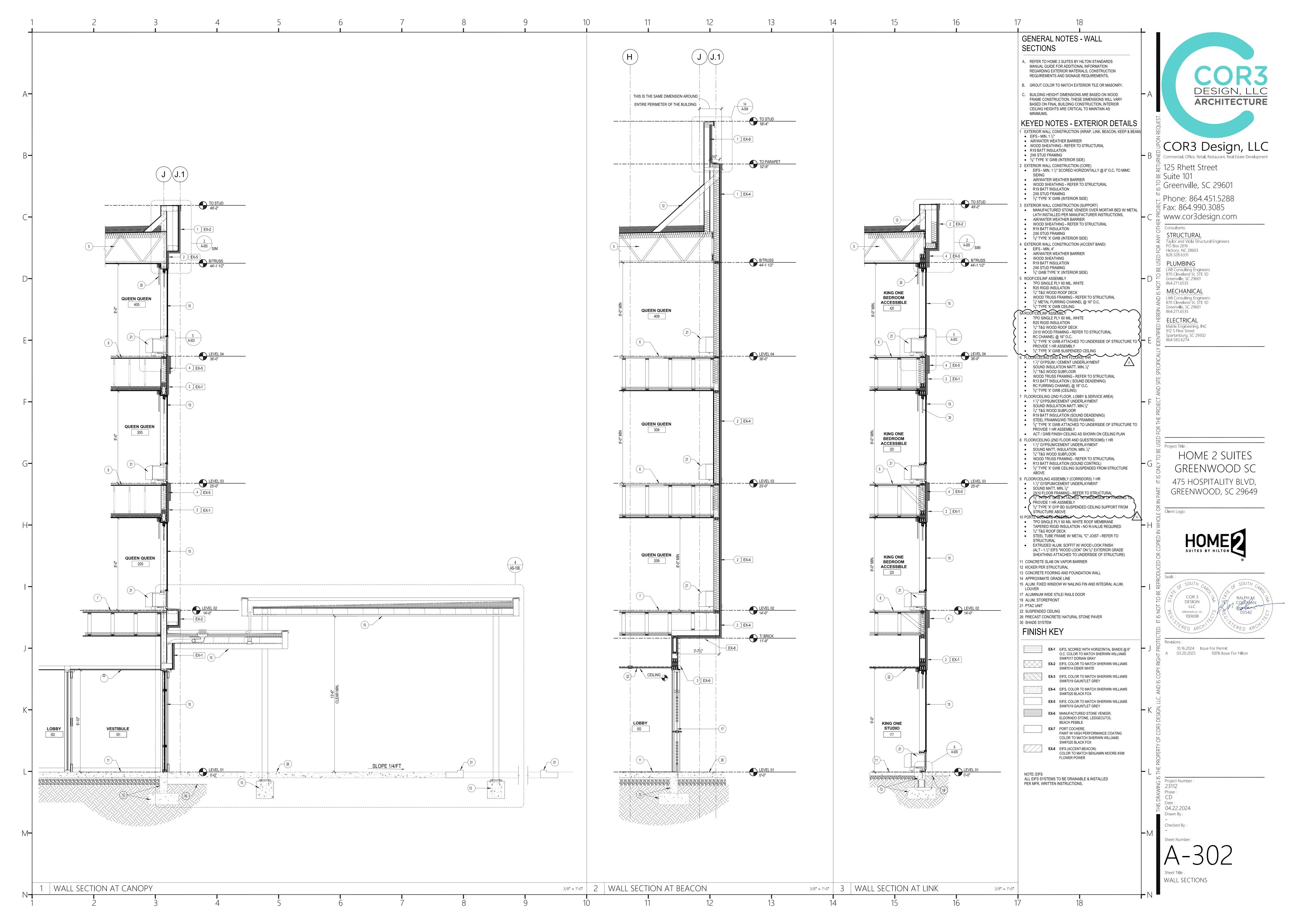
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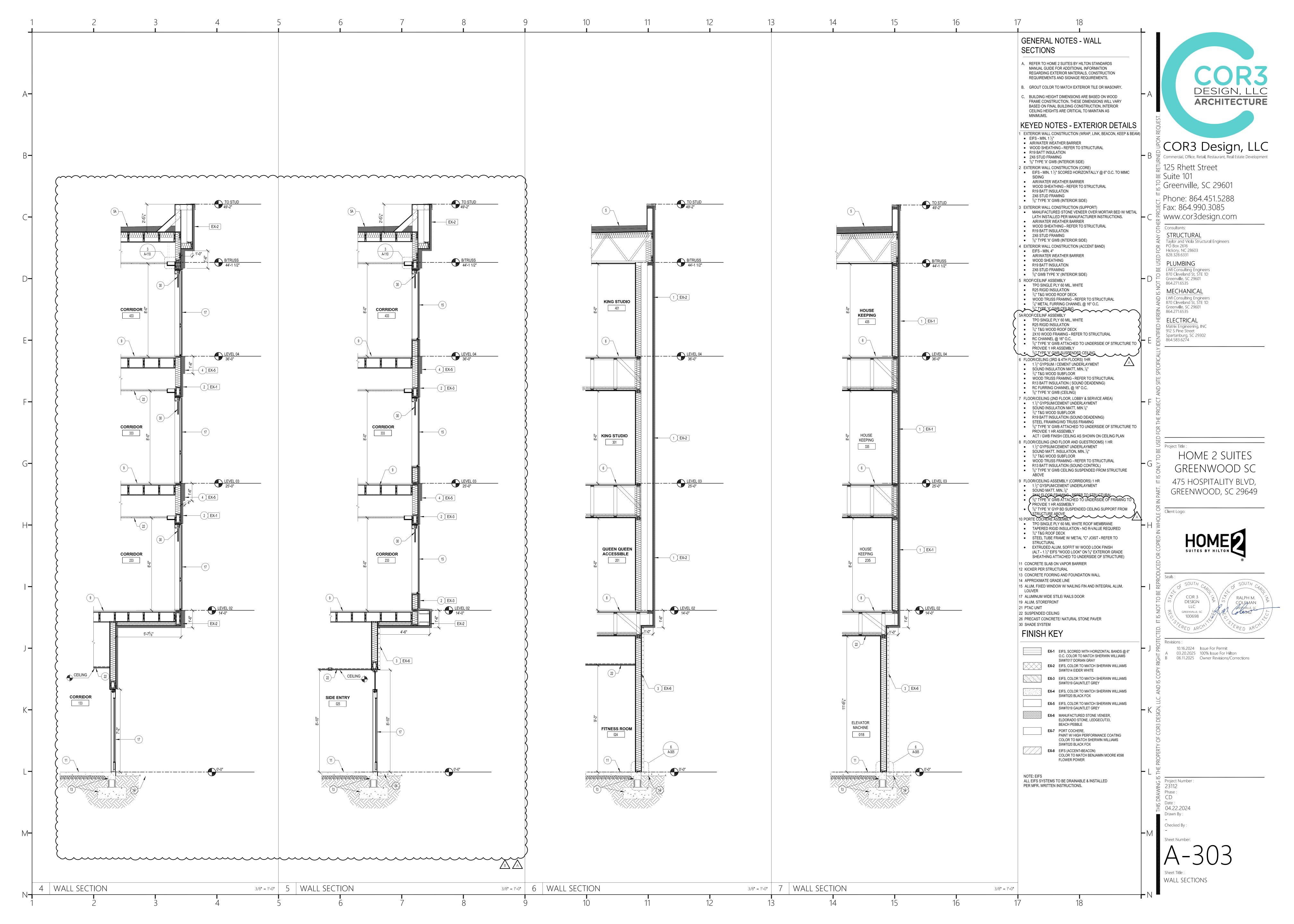
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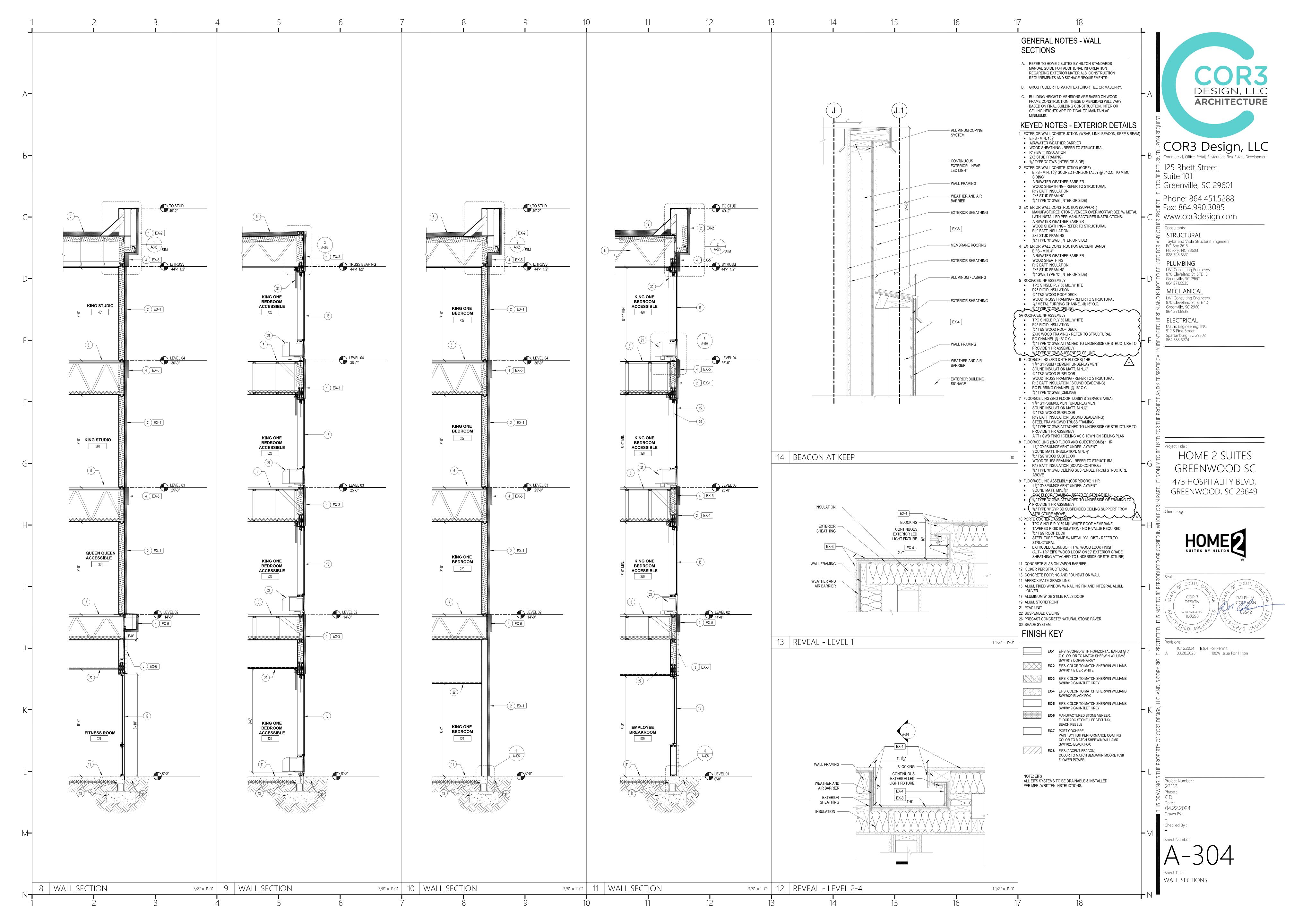


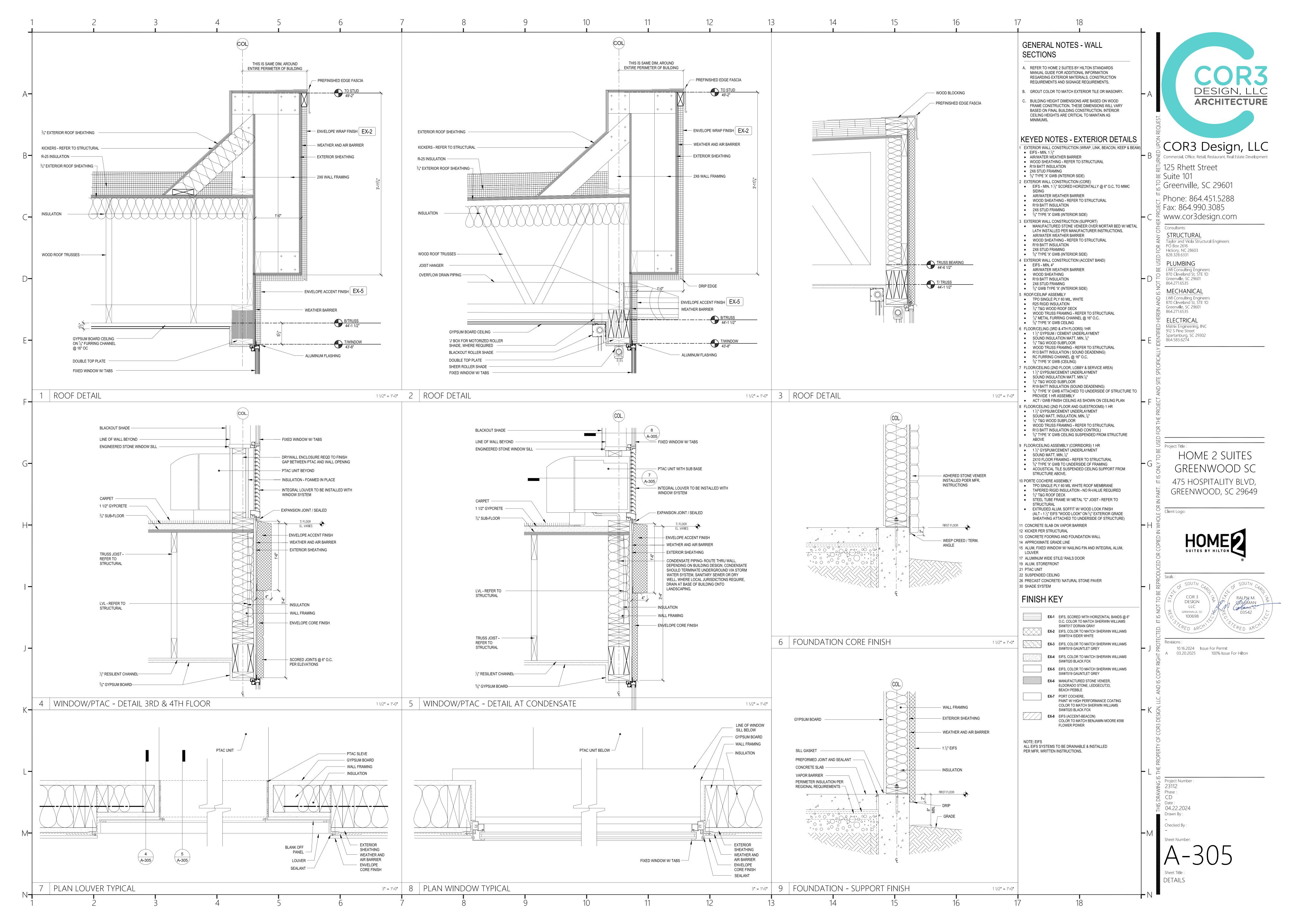


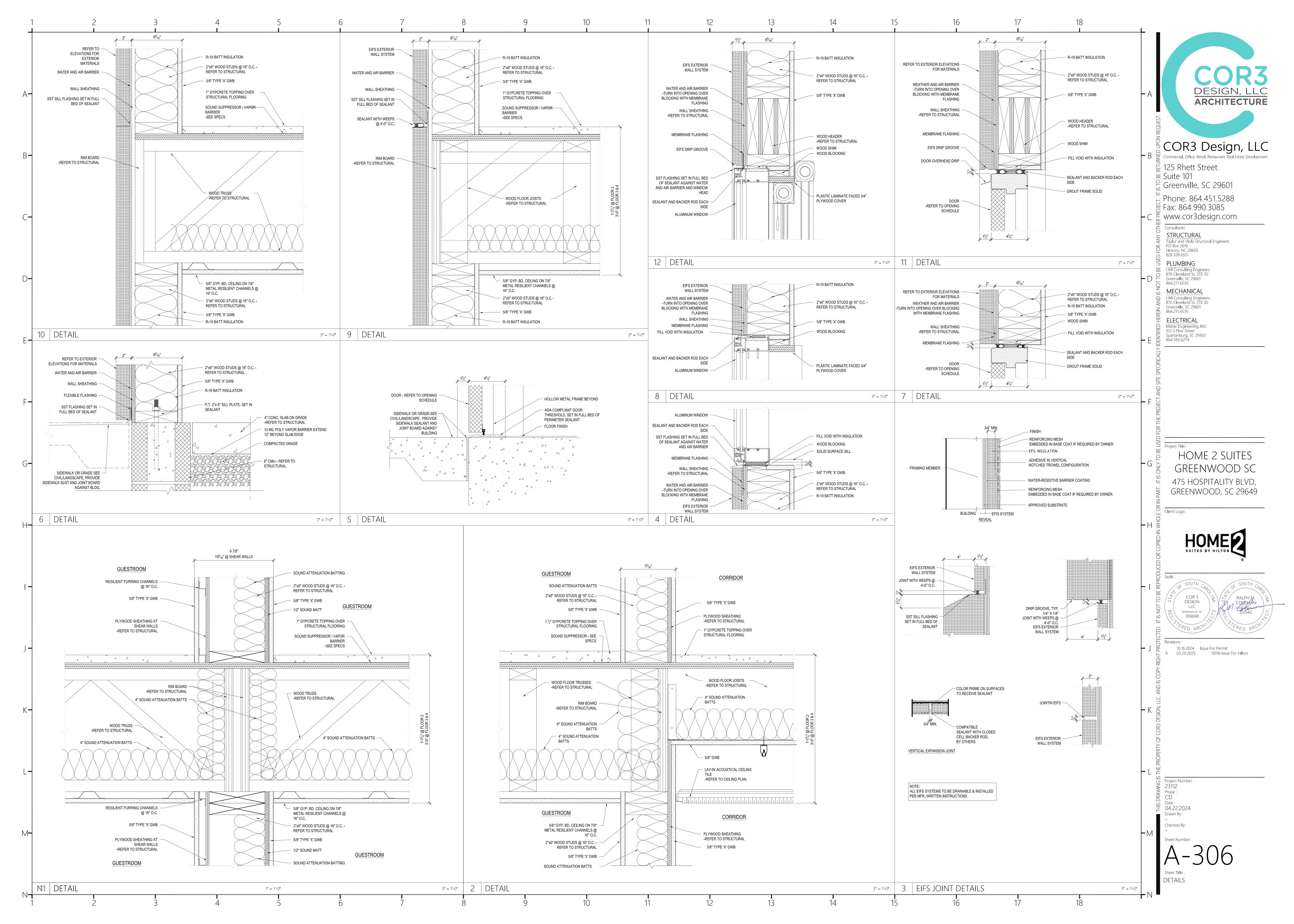


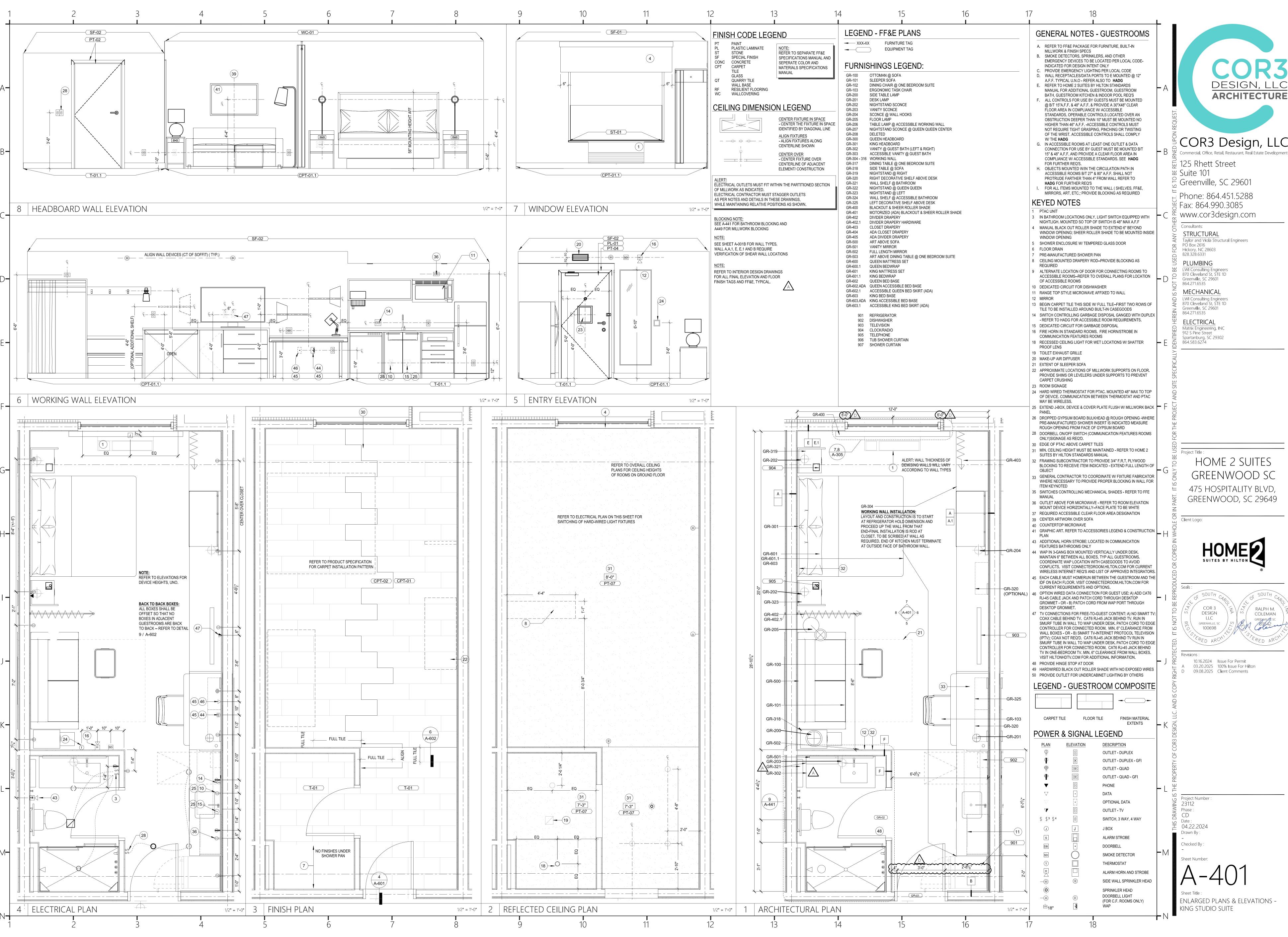












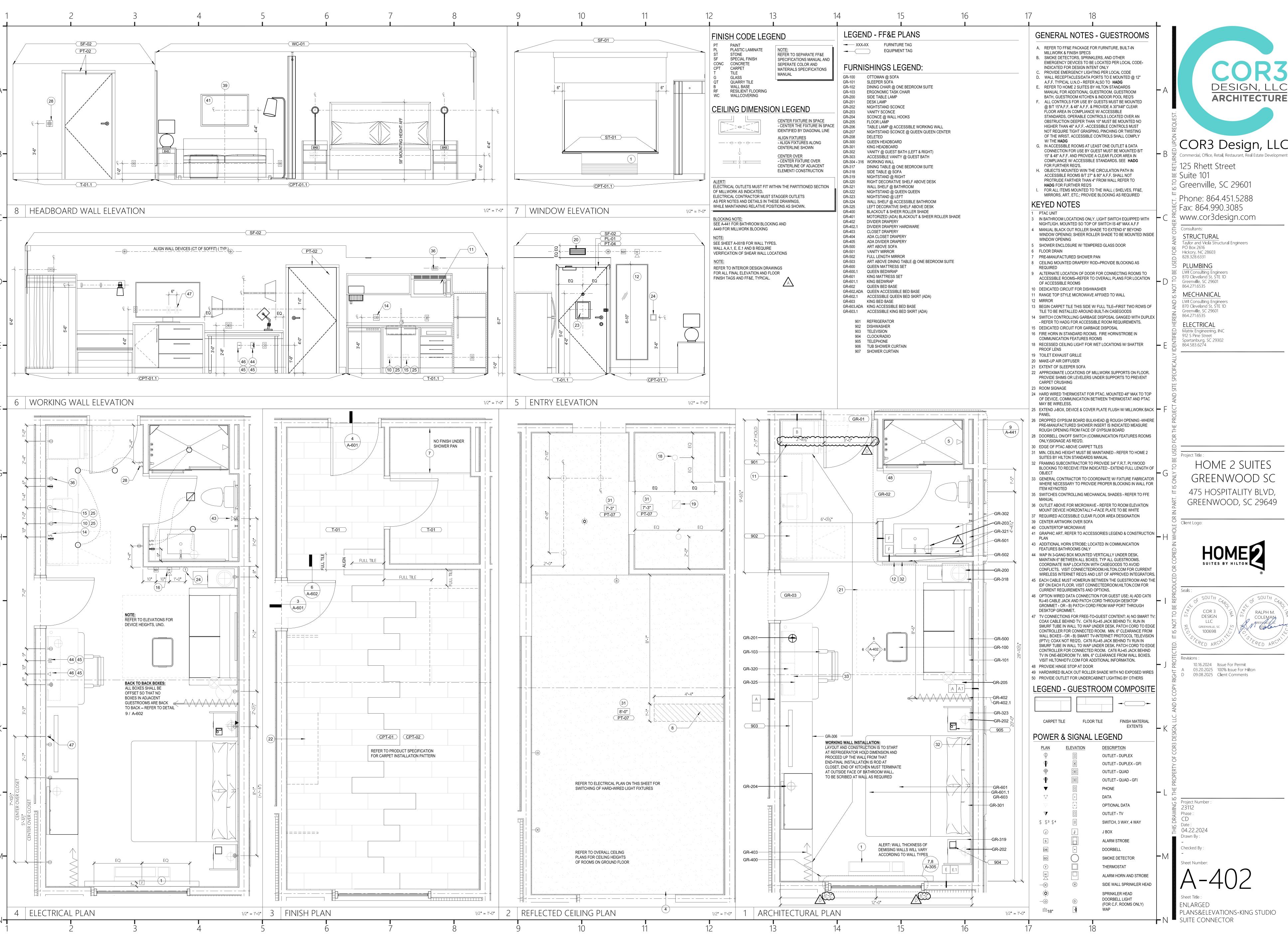
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Matrix Engineering, INC

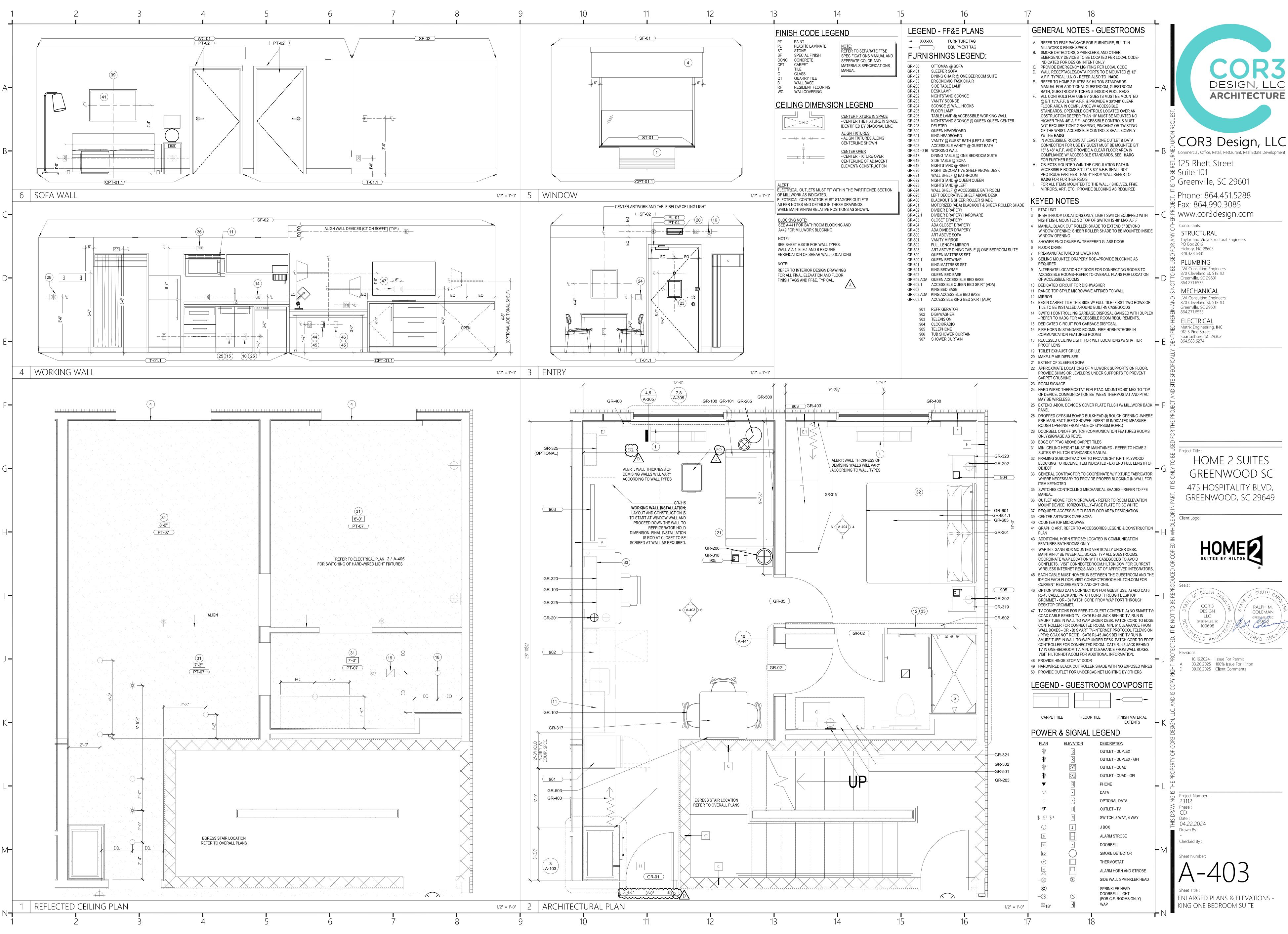
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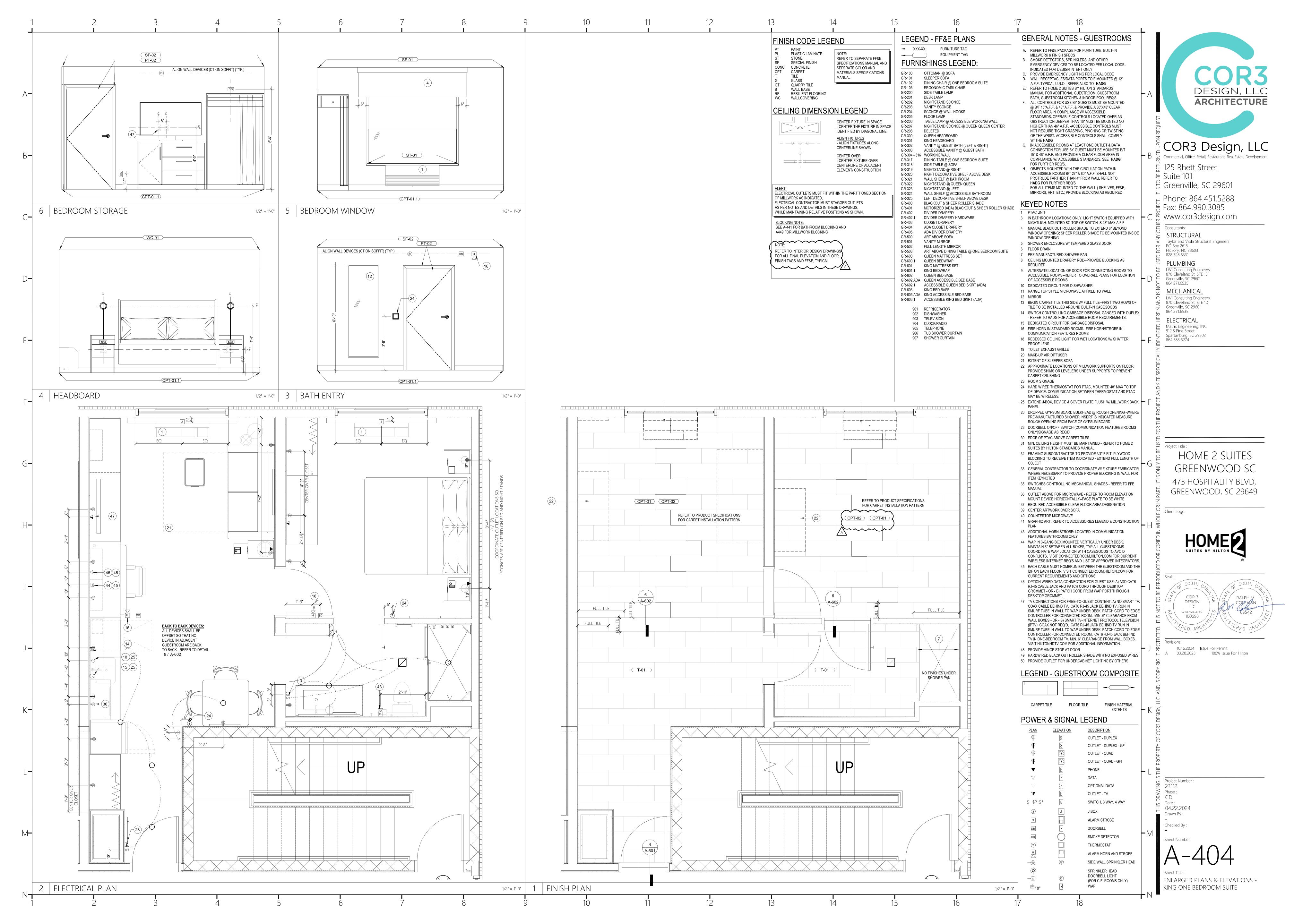
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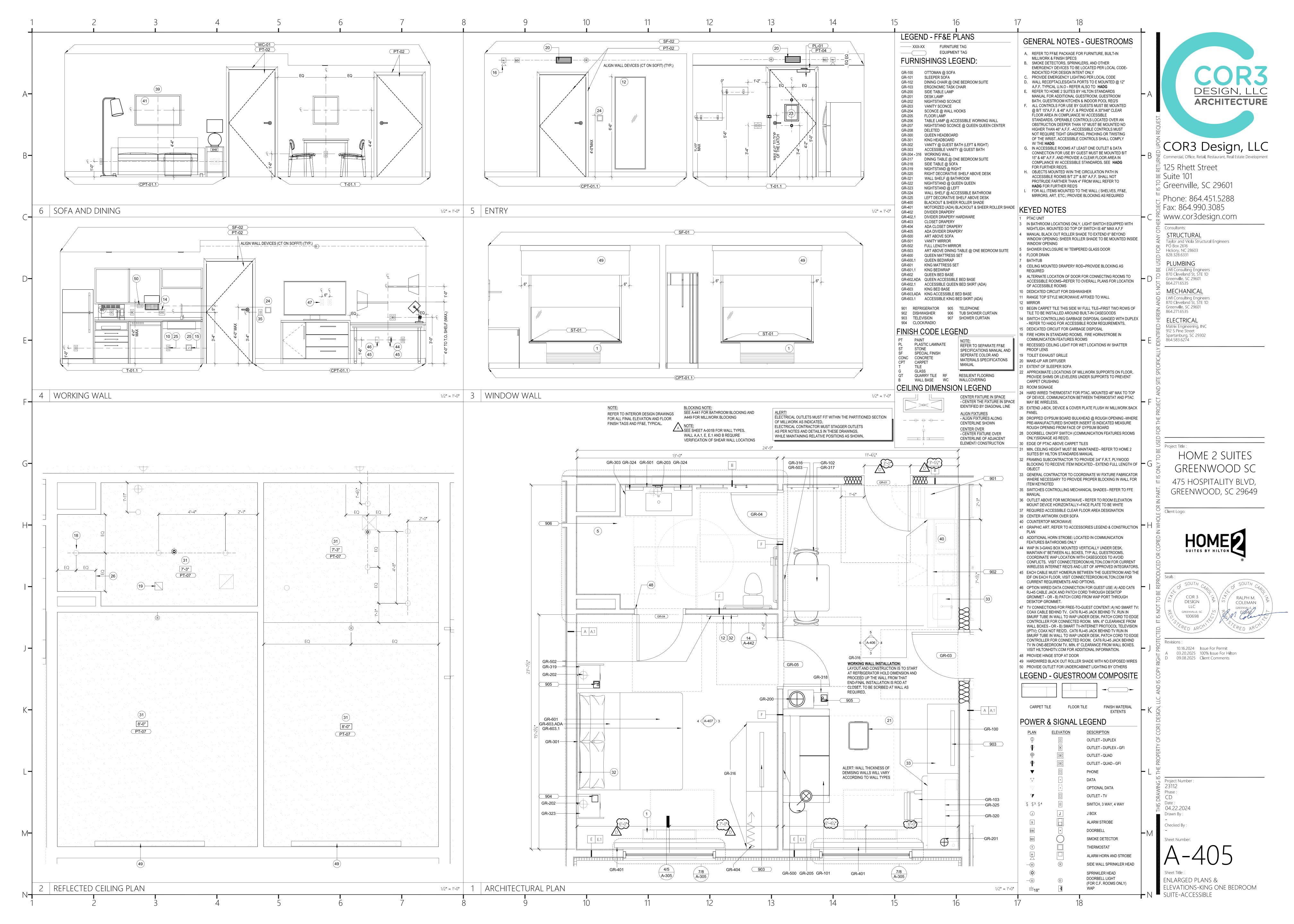
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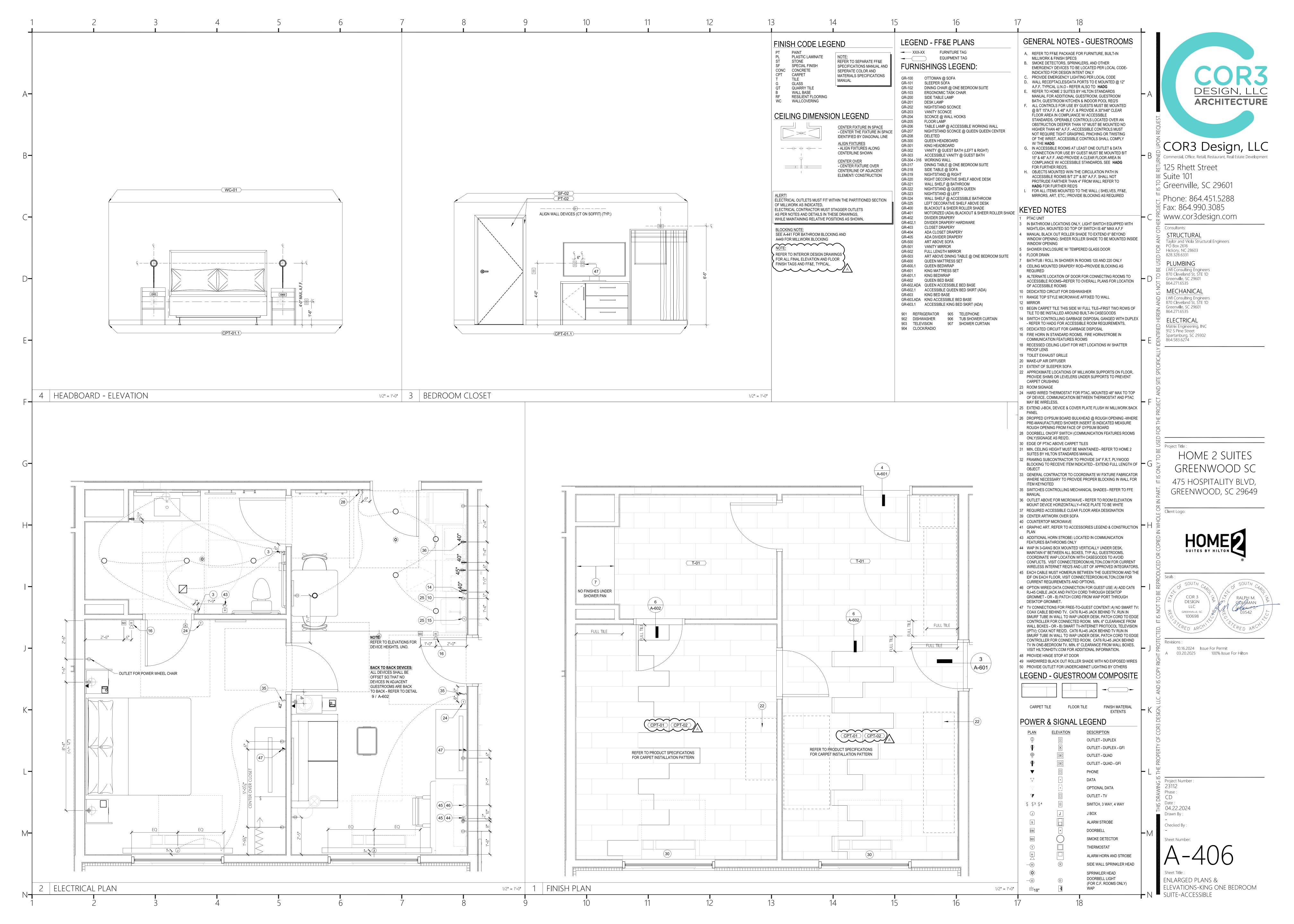
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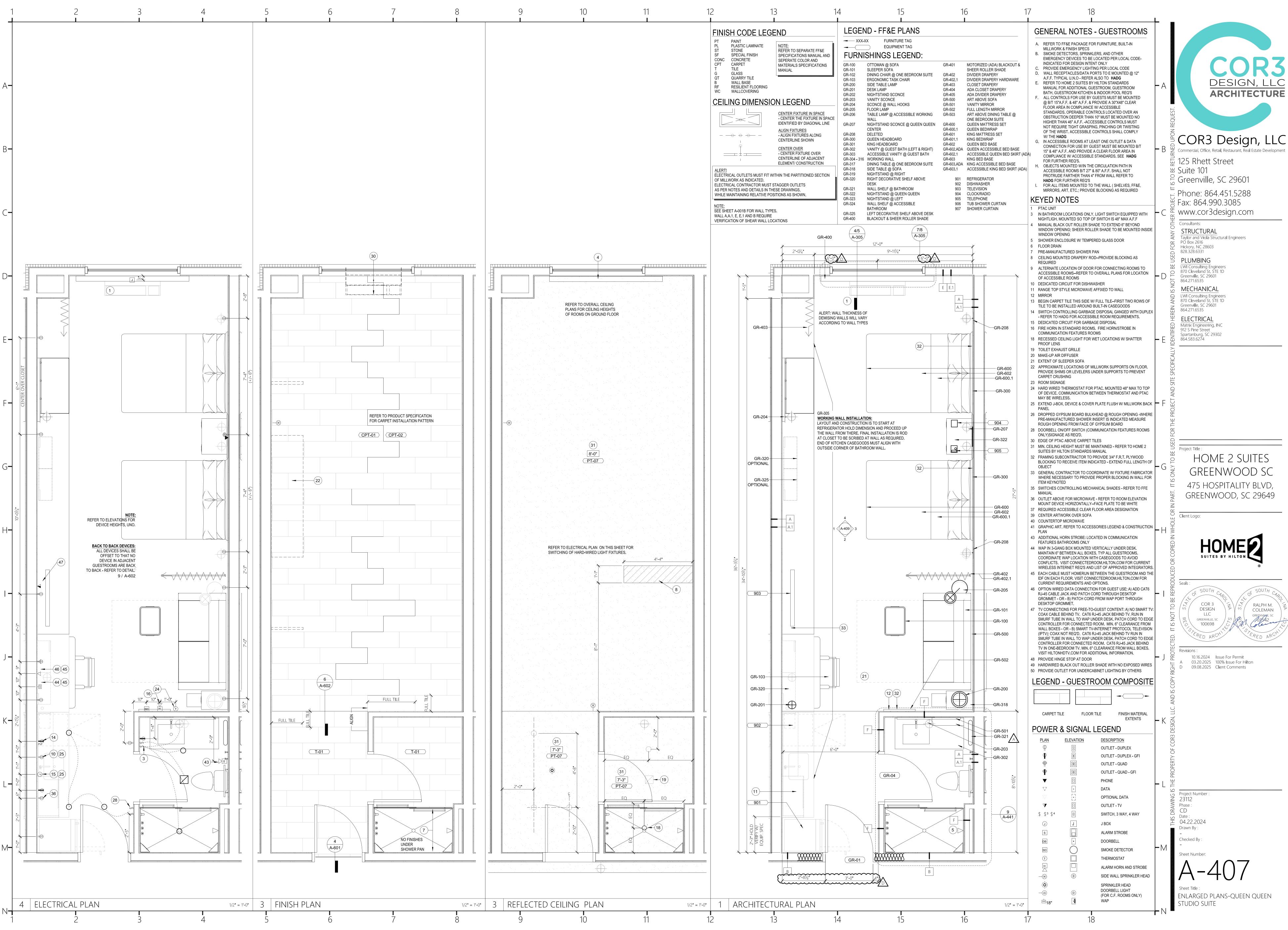
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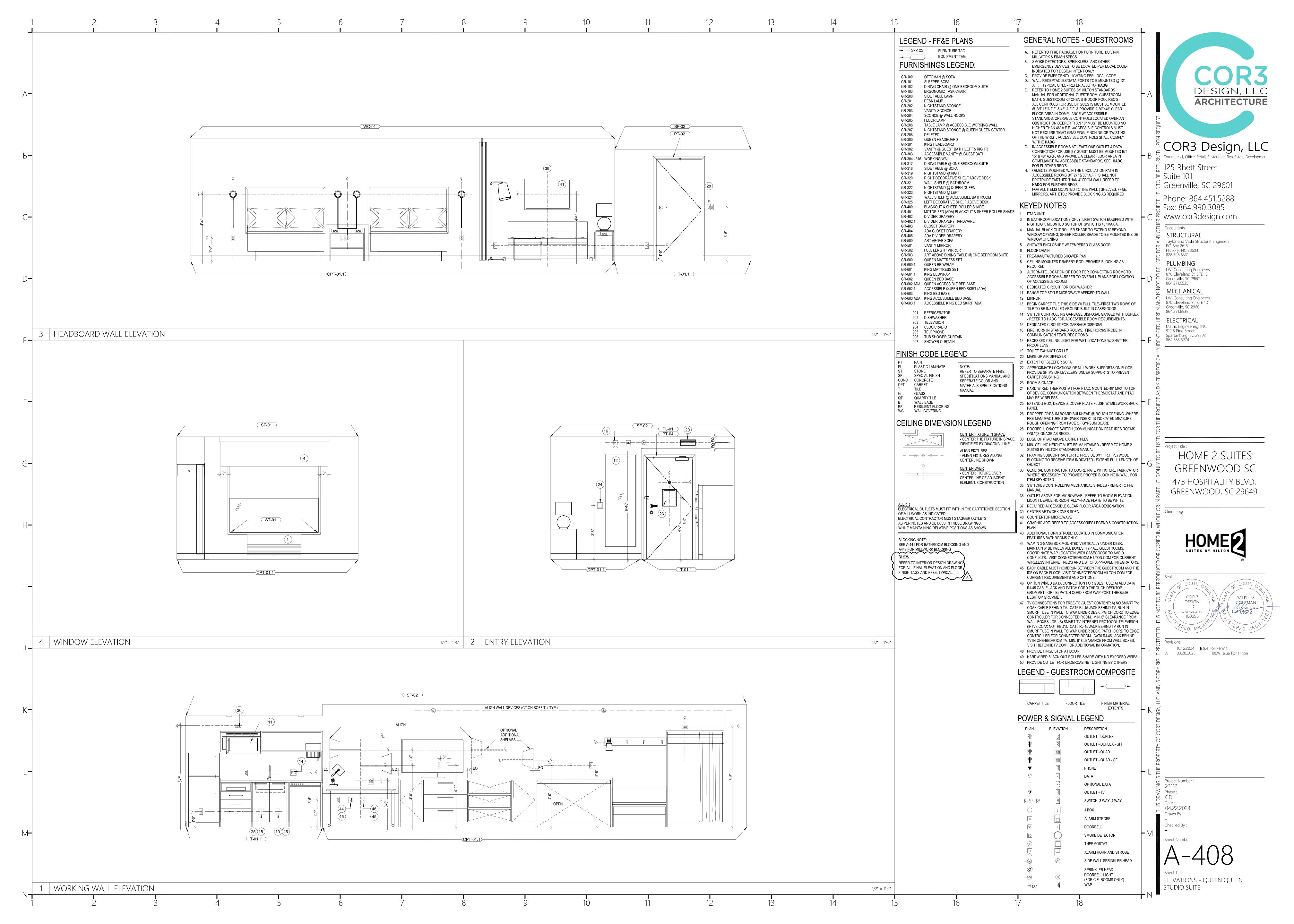


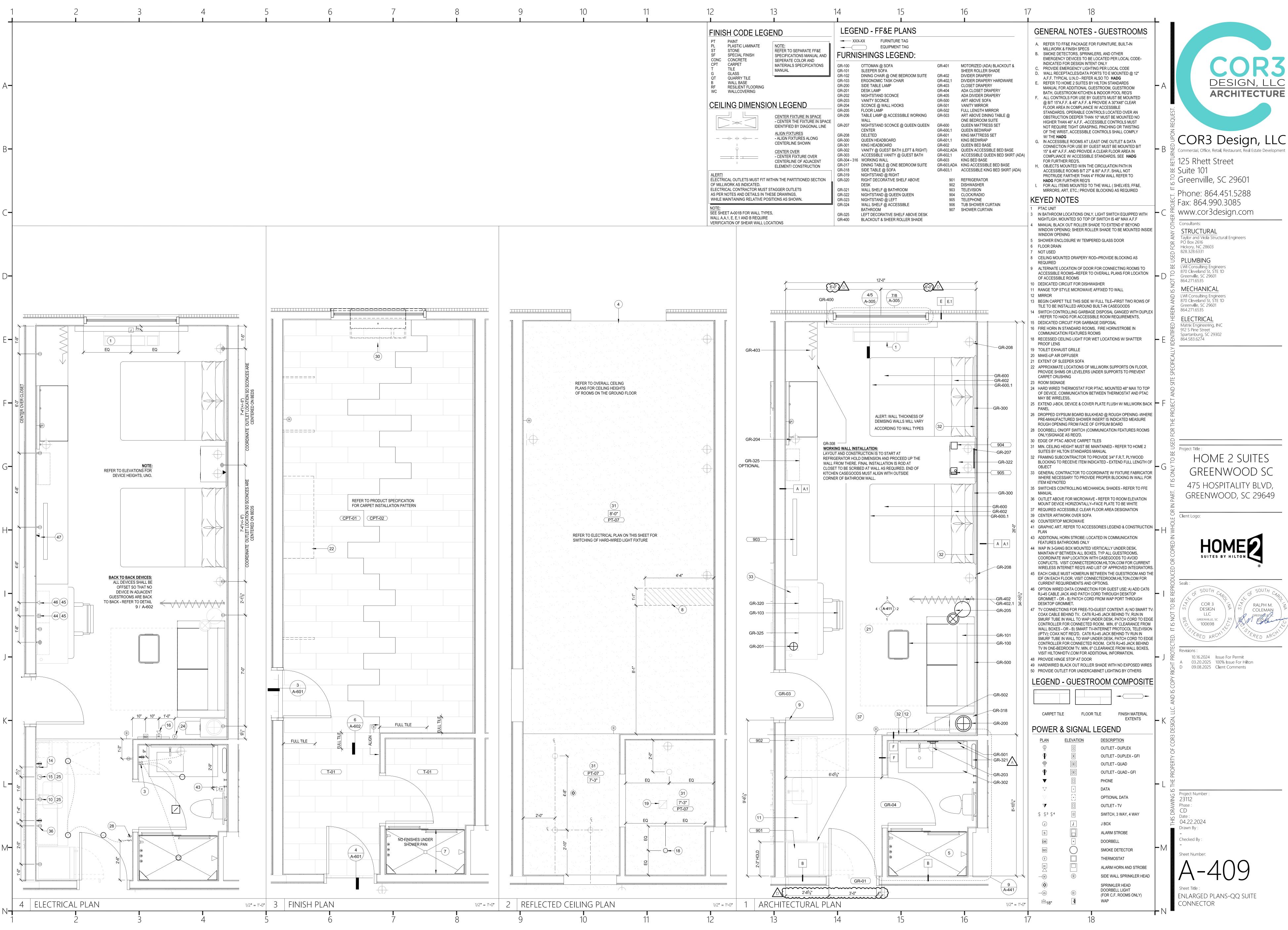


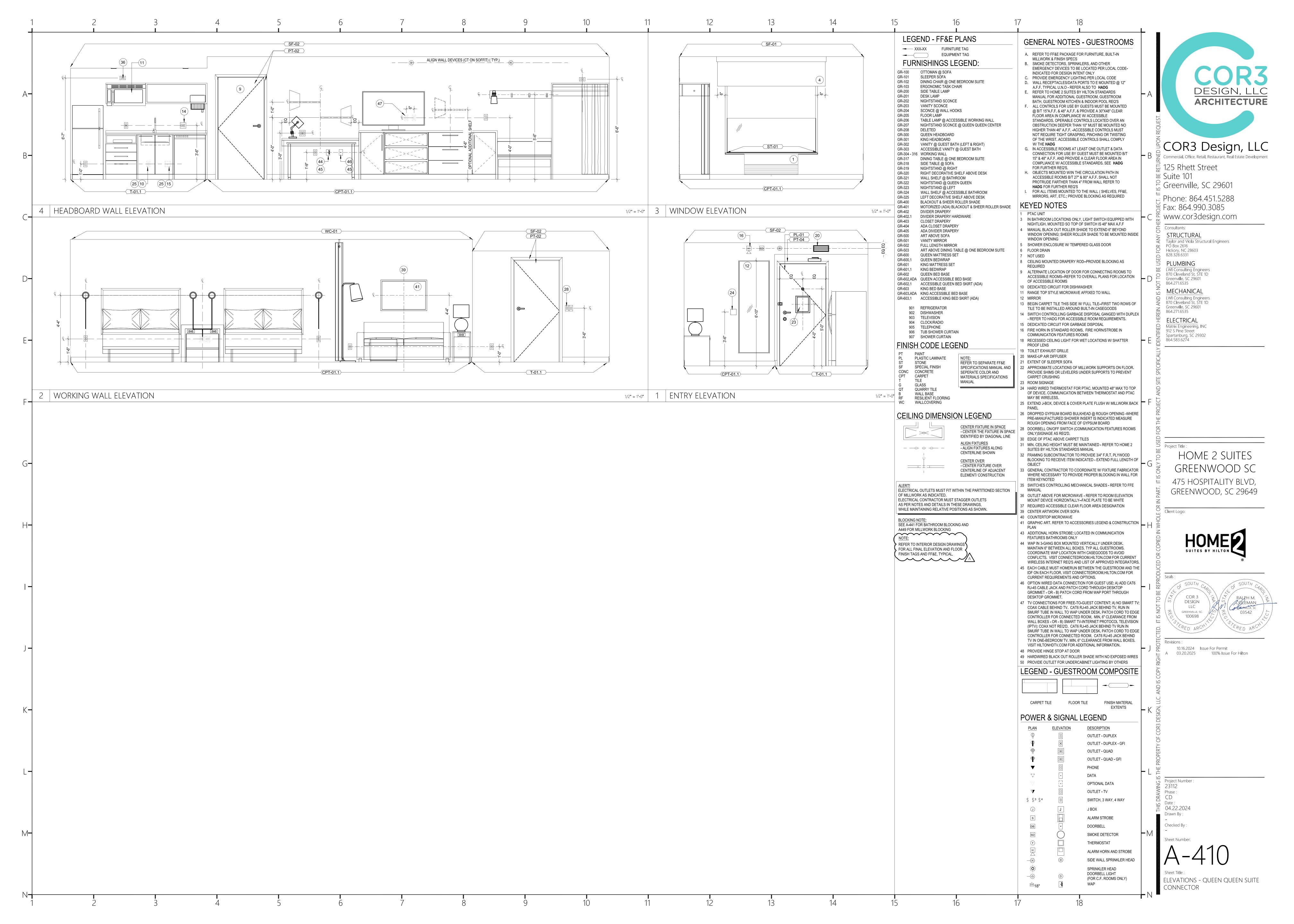


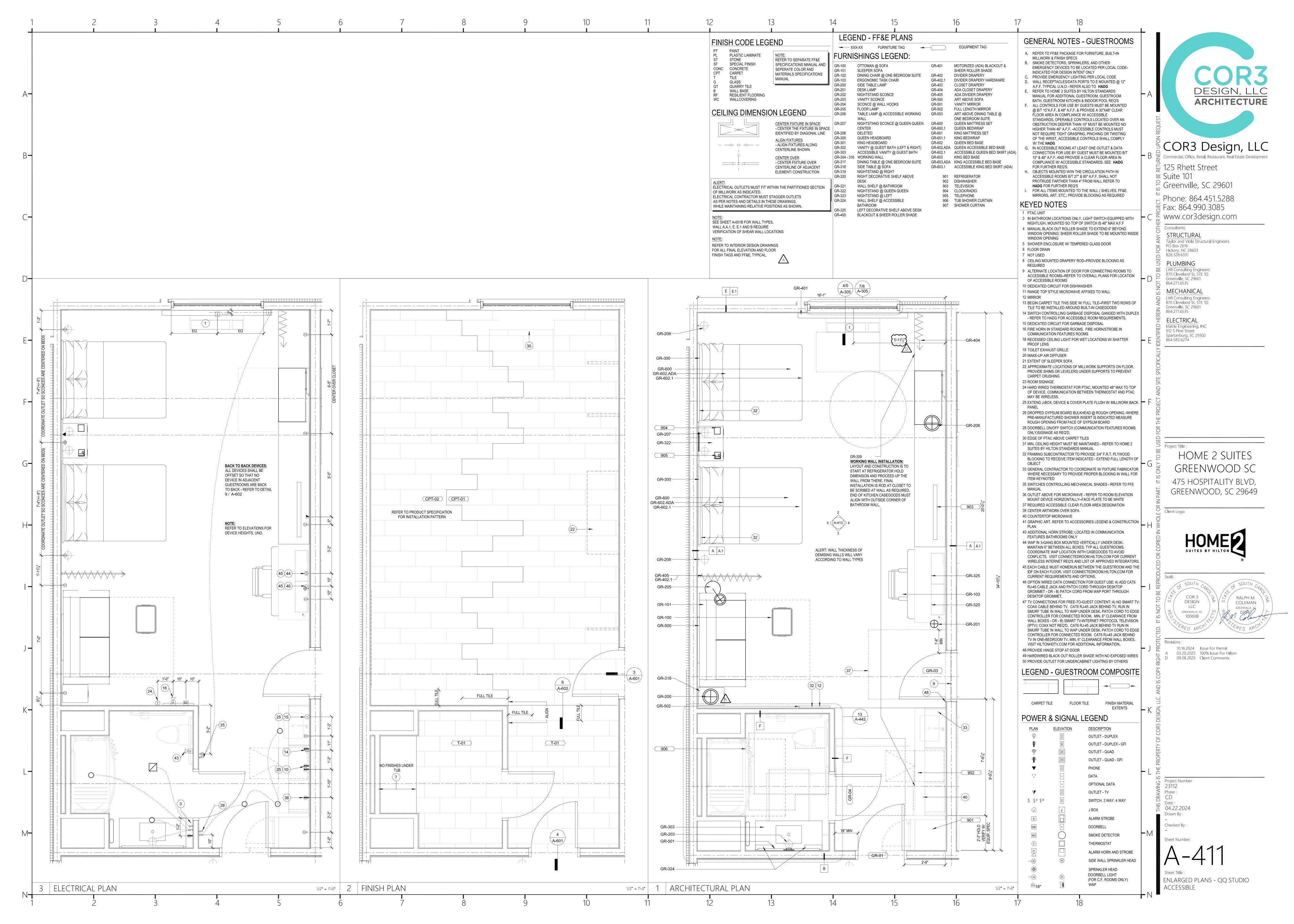


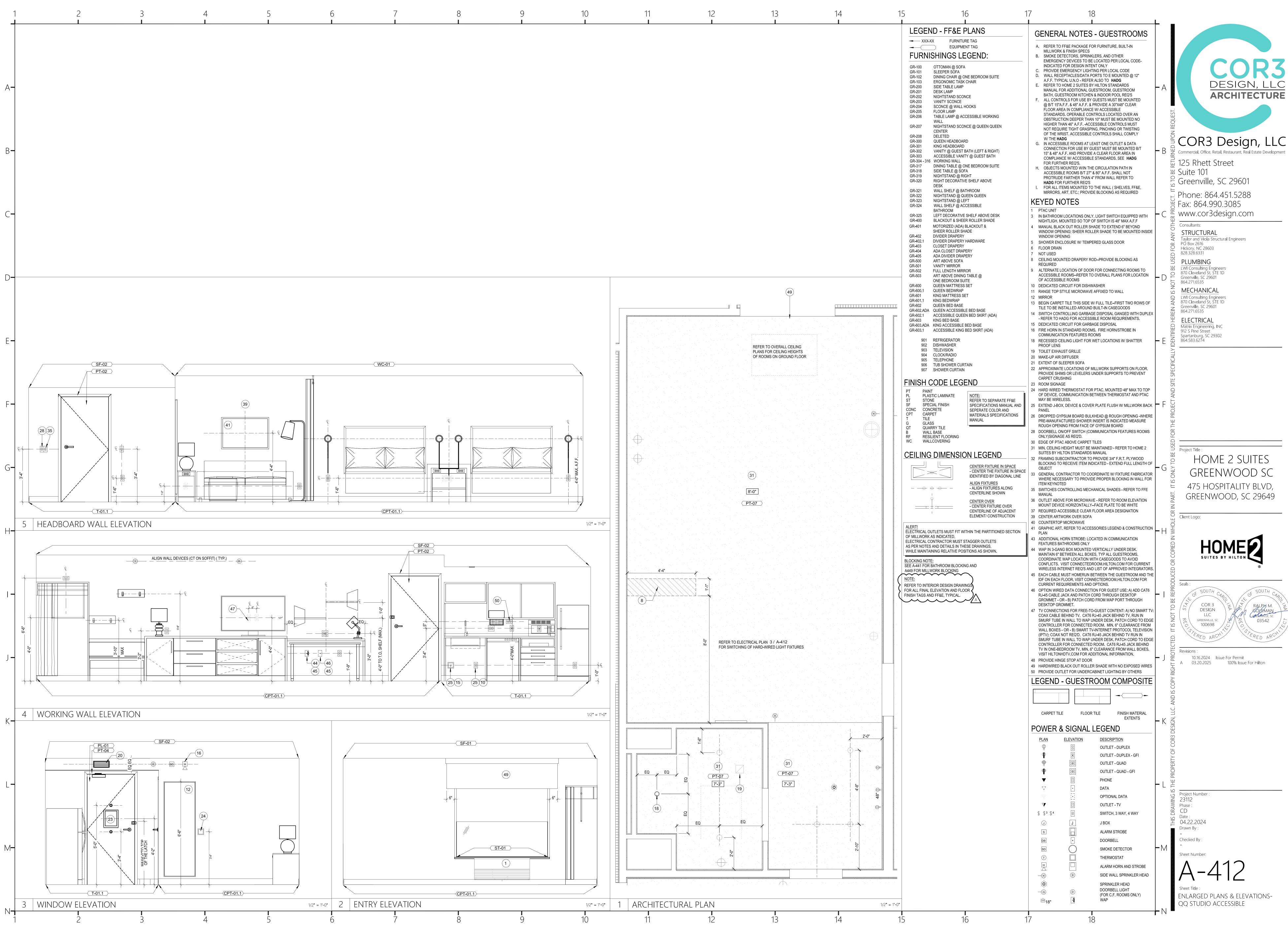




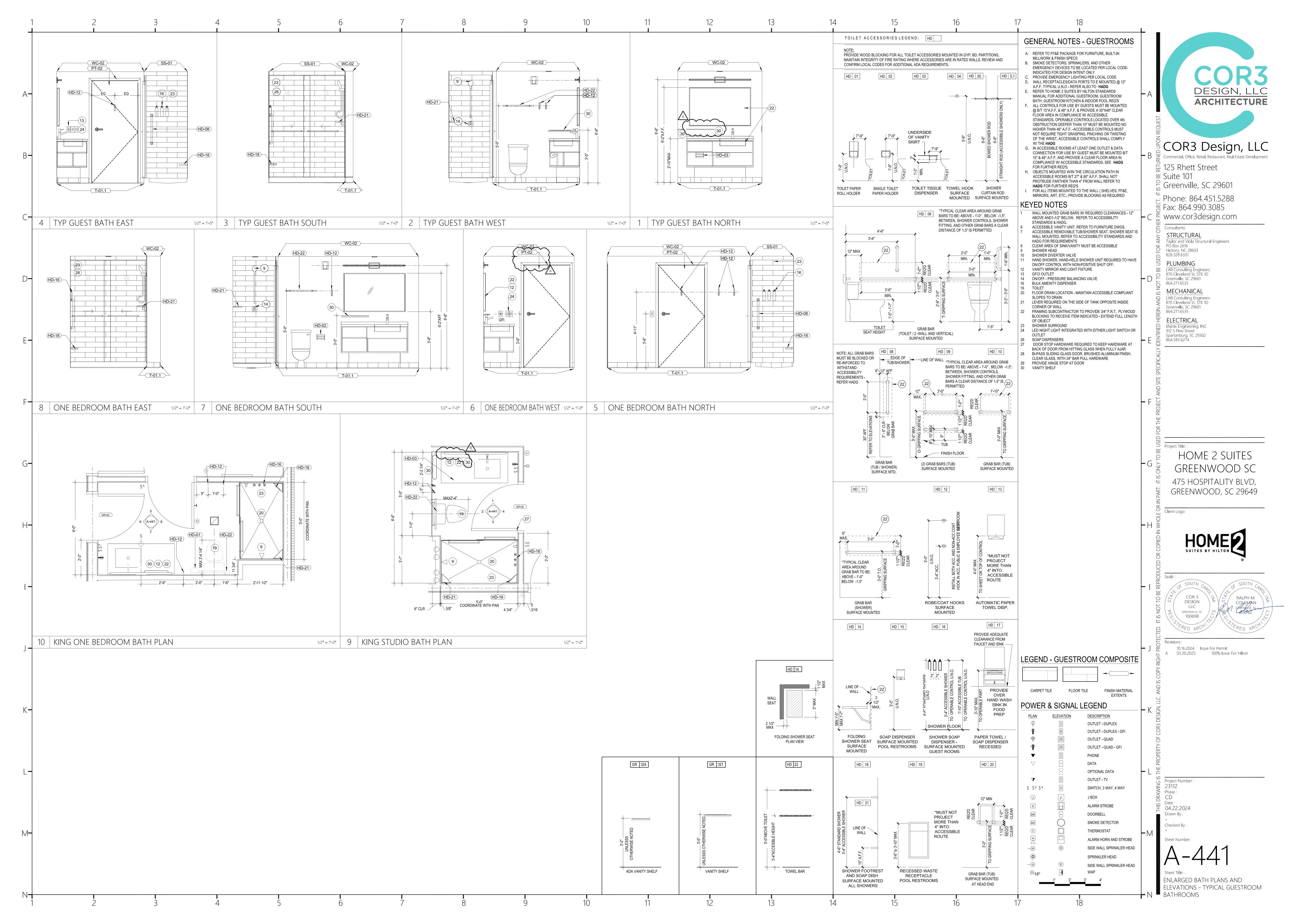


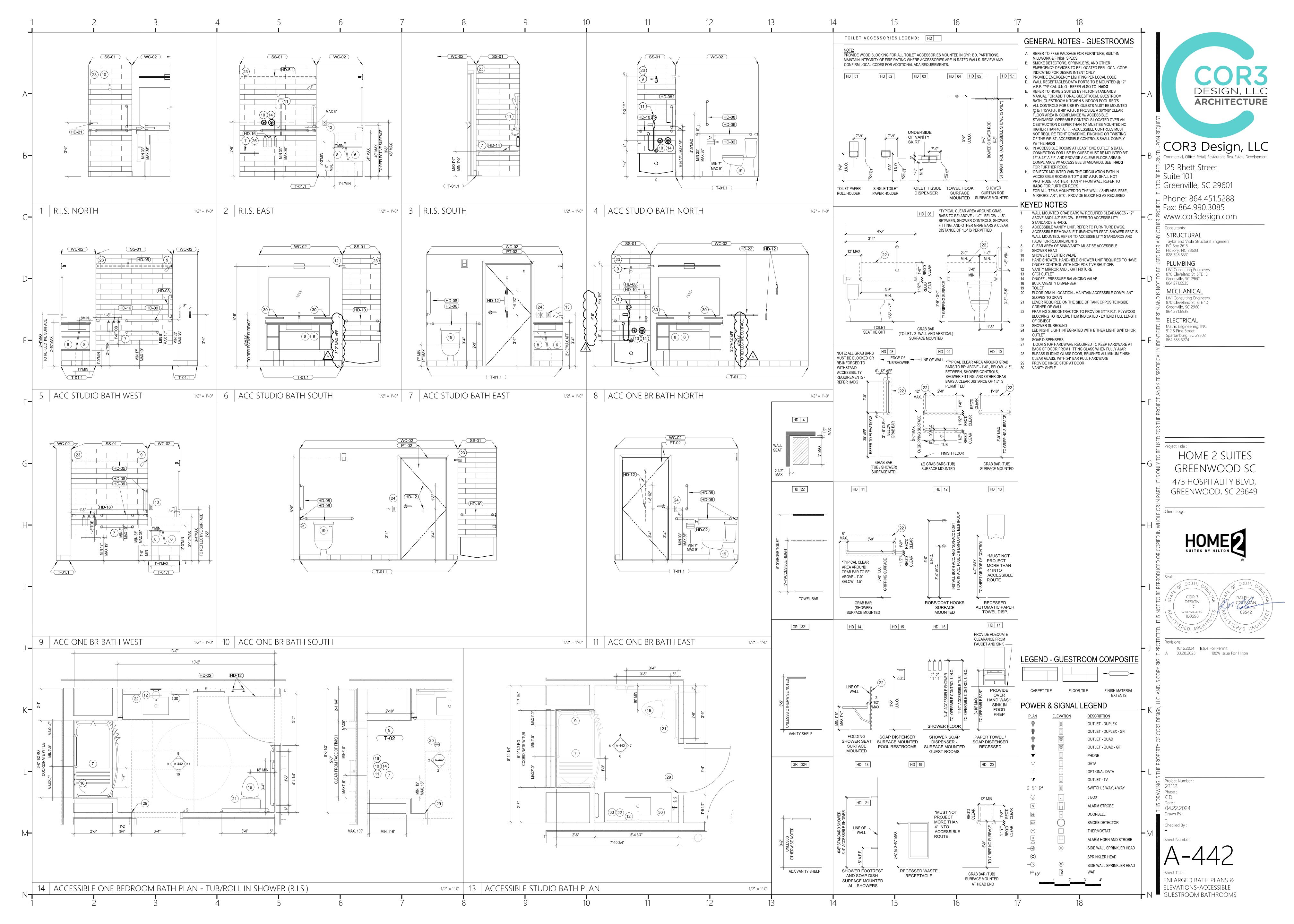


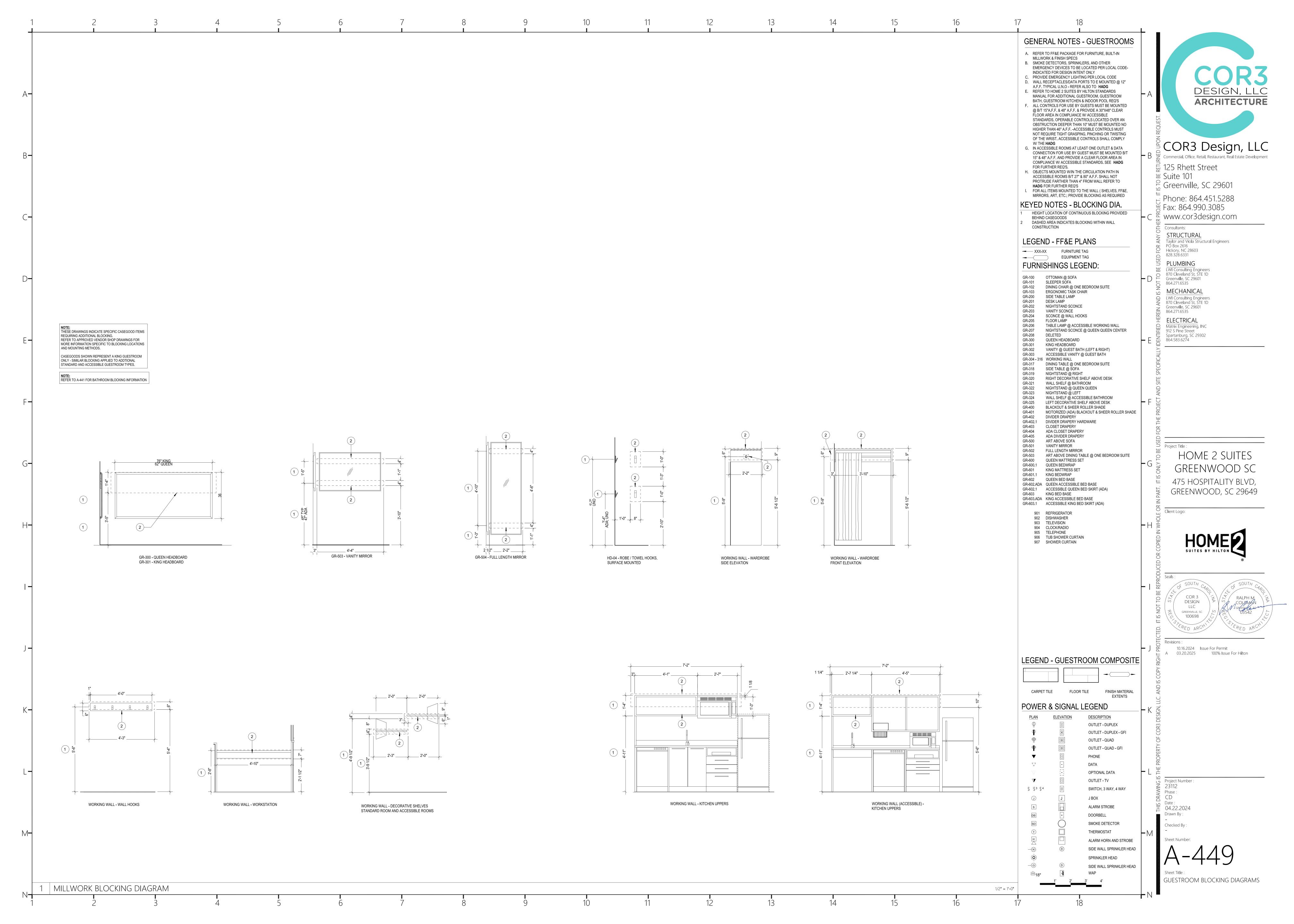


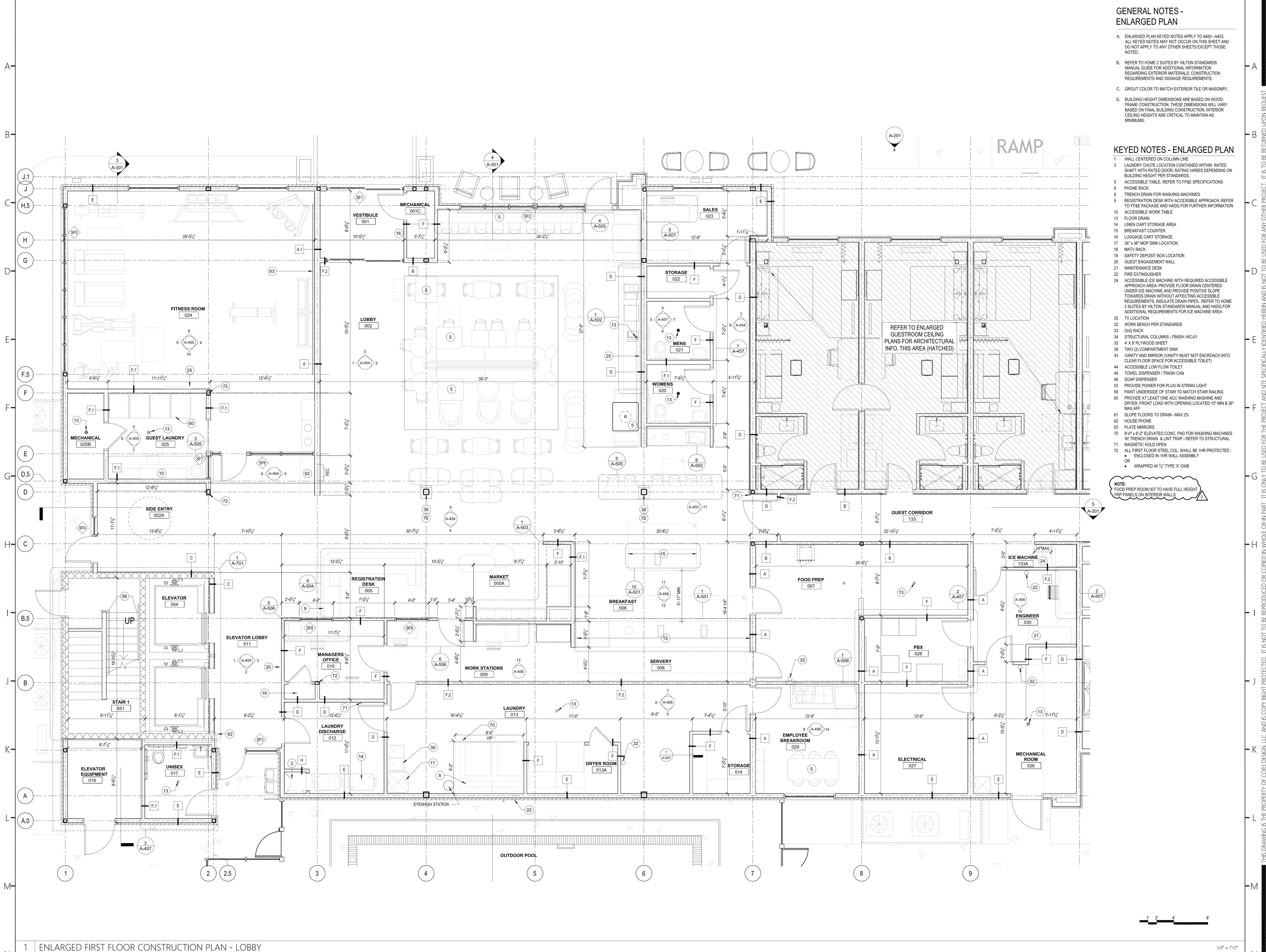


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HOME 2 SUITES GREENWOOD SC 475 HOSPITALITY BLVD,

GREENWOOD, SC 29649

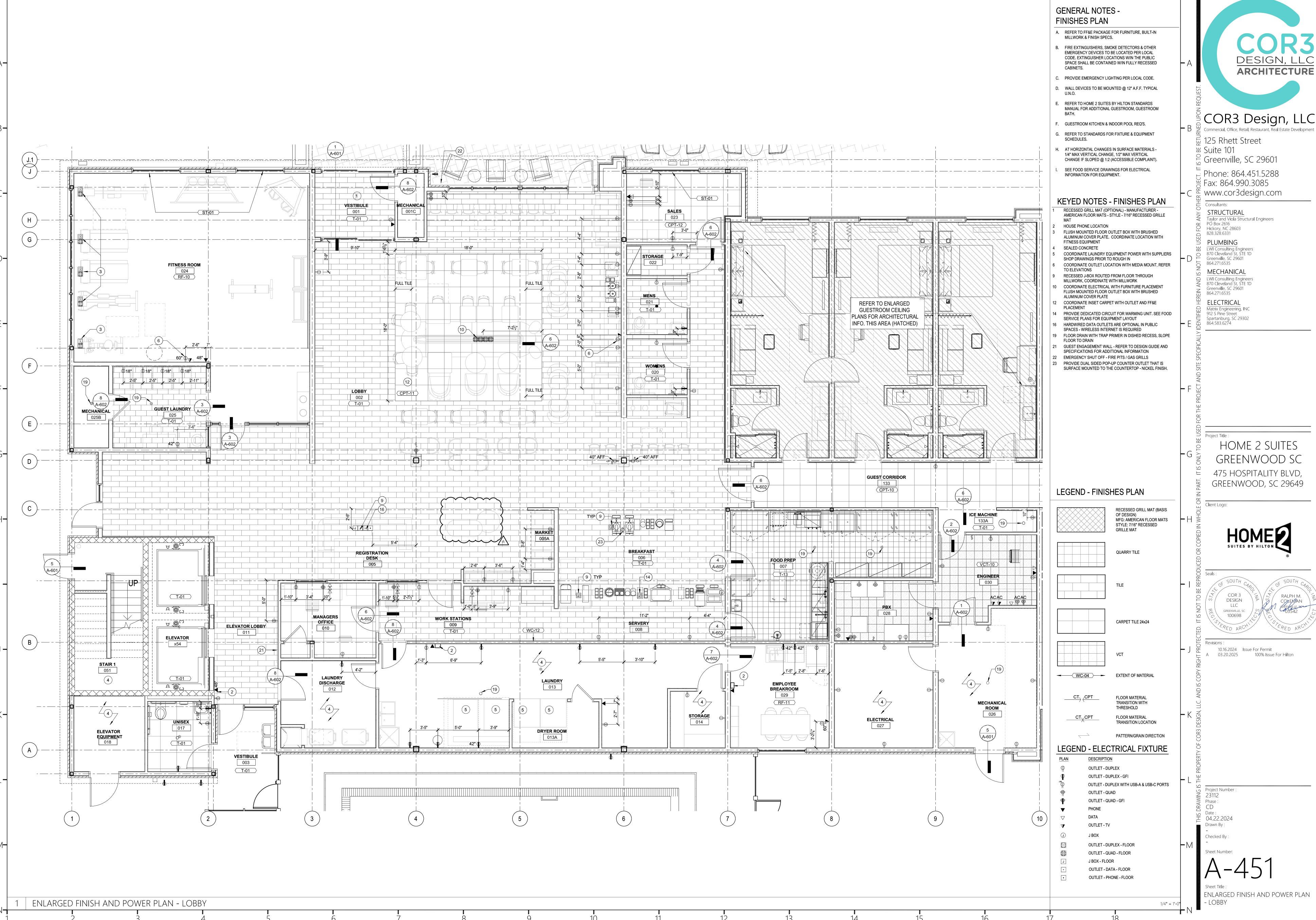
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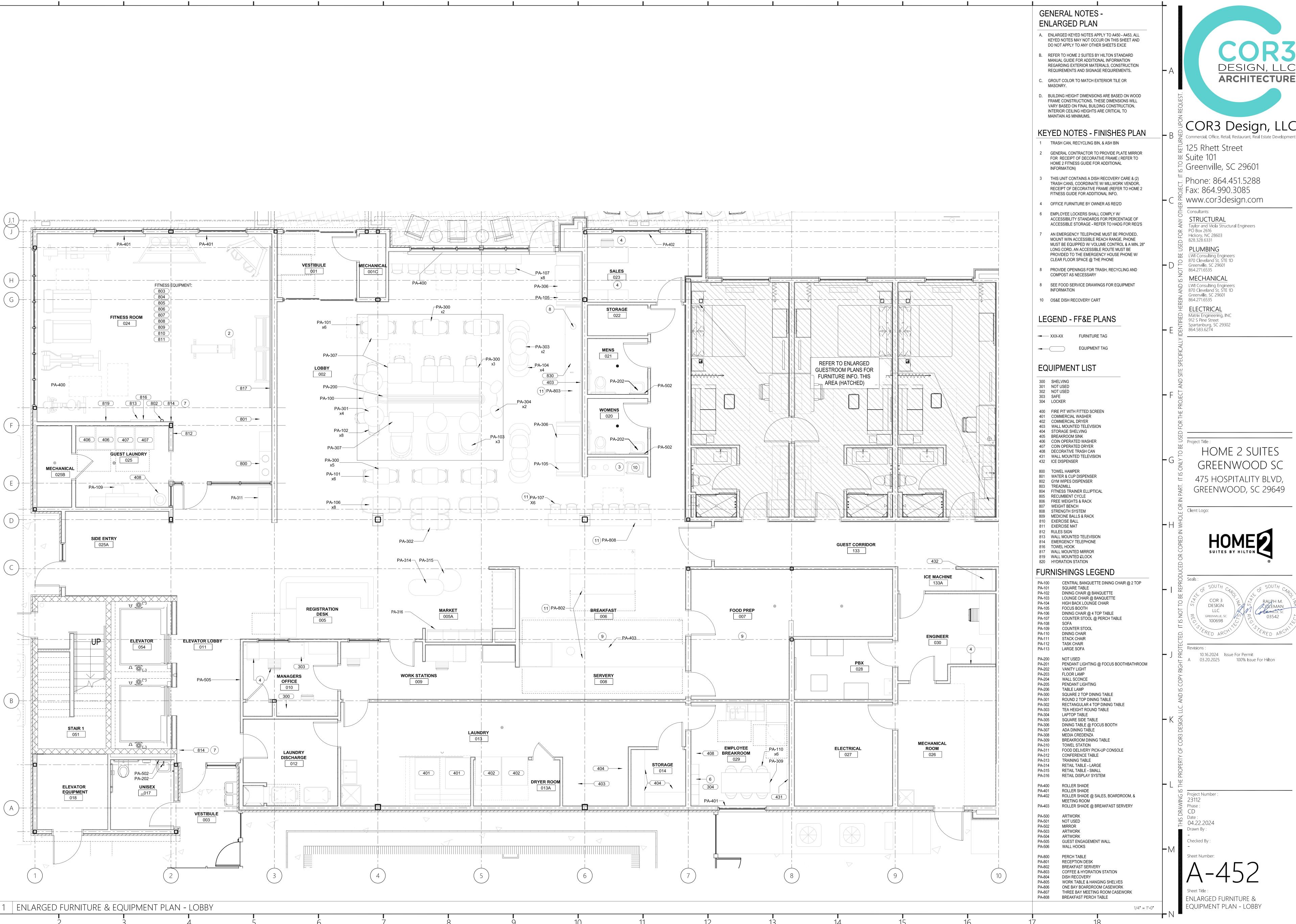
ENLARGED CONSTRUCTION PLAN -



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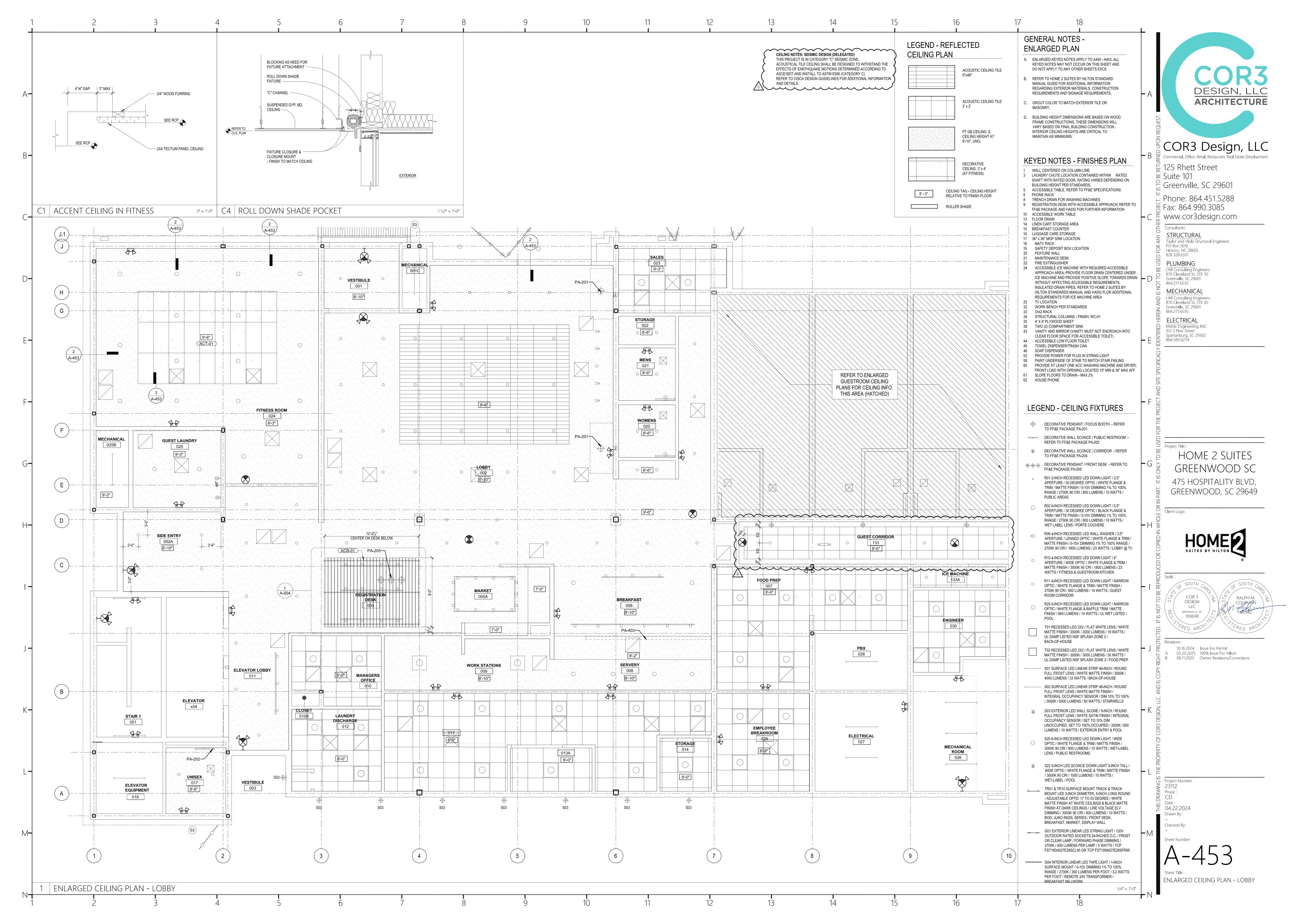
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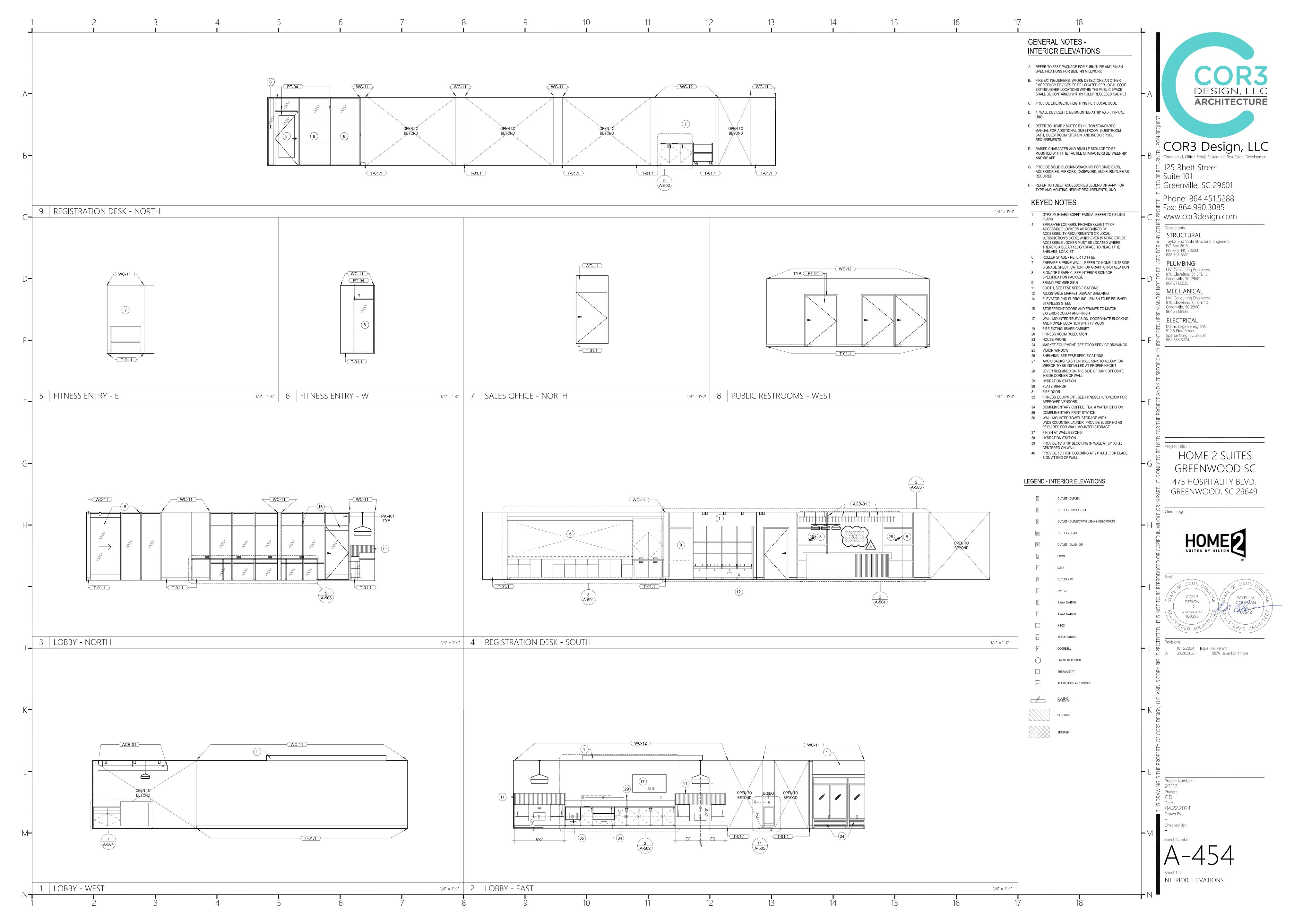
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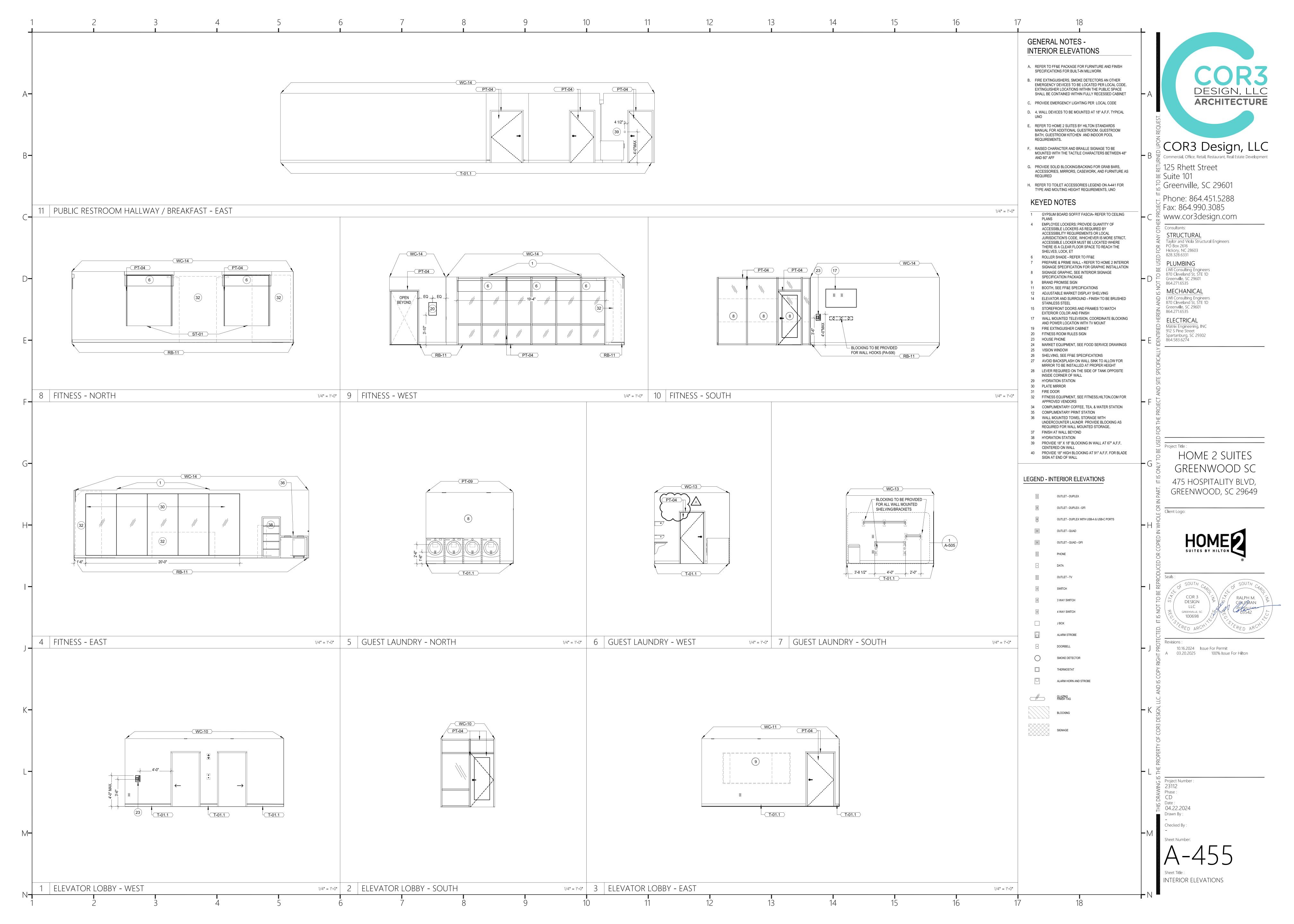
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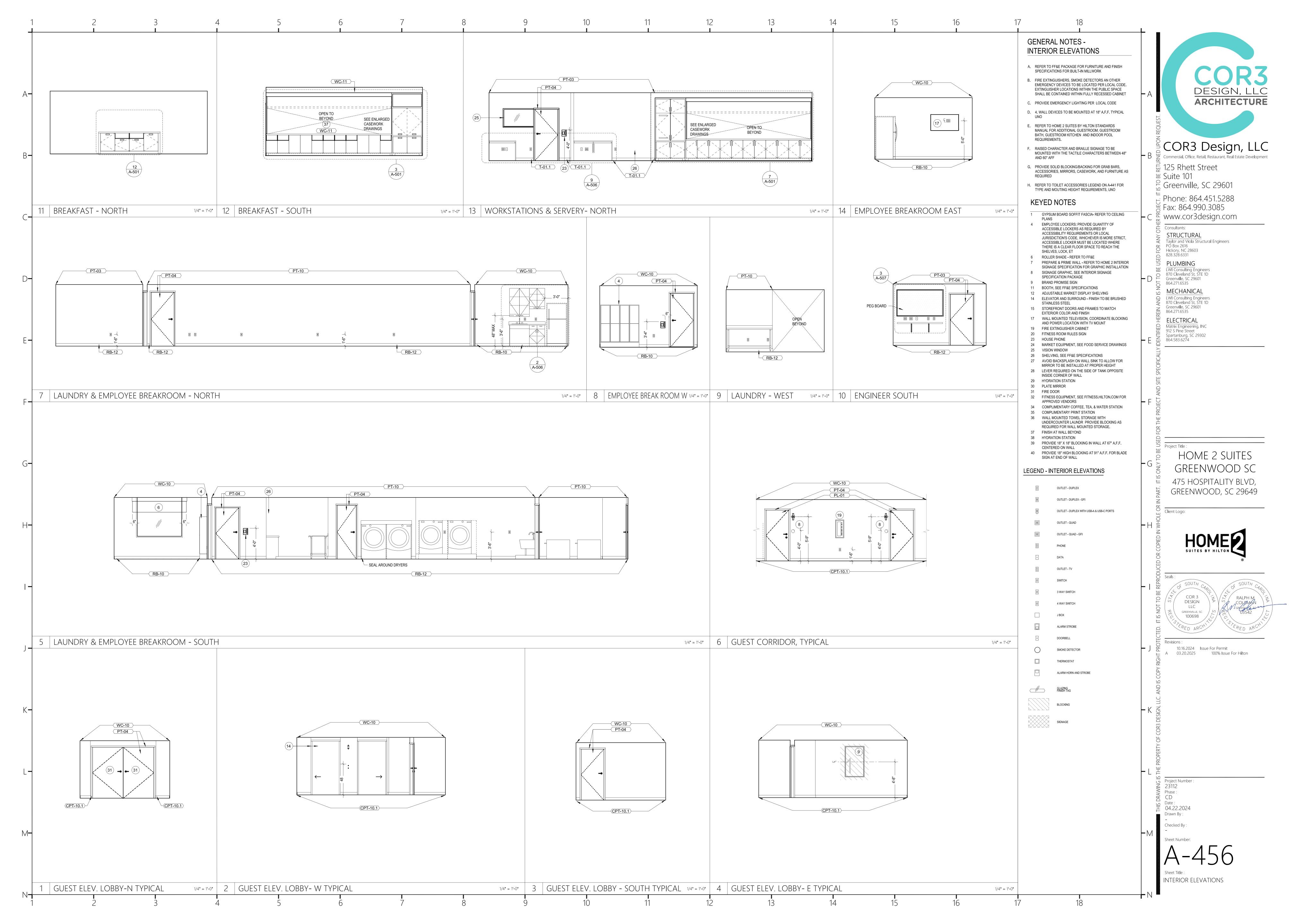
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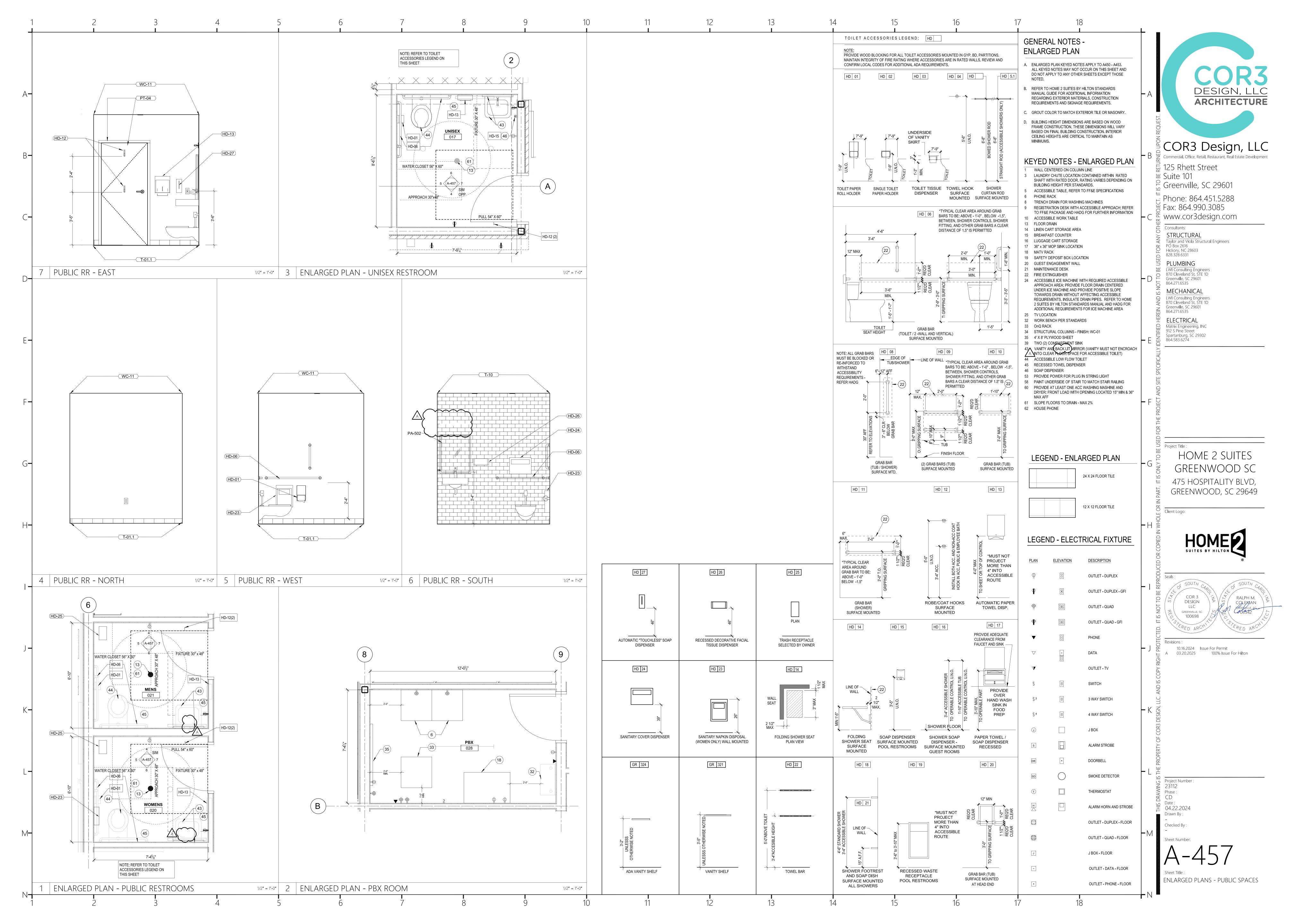
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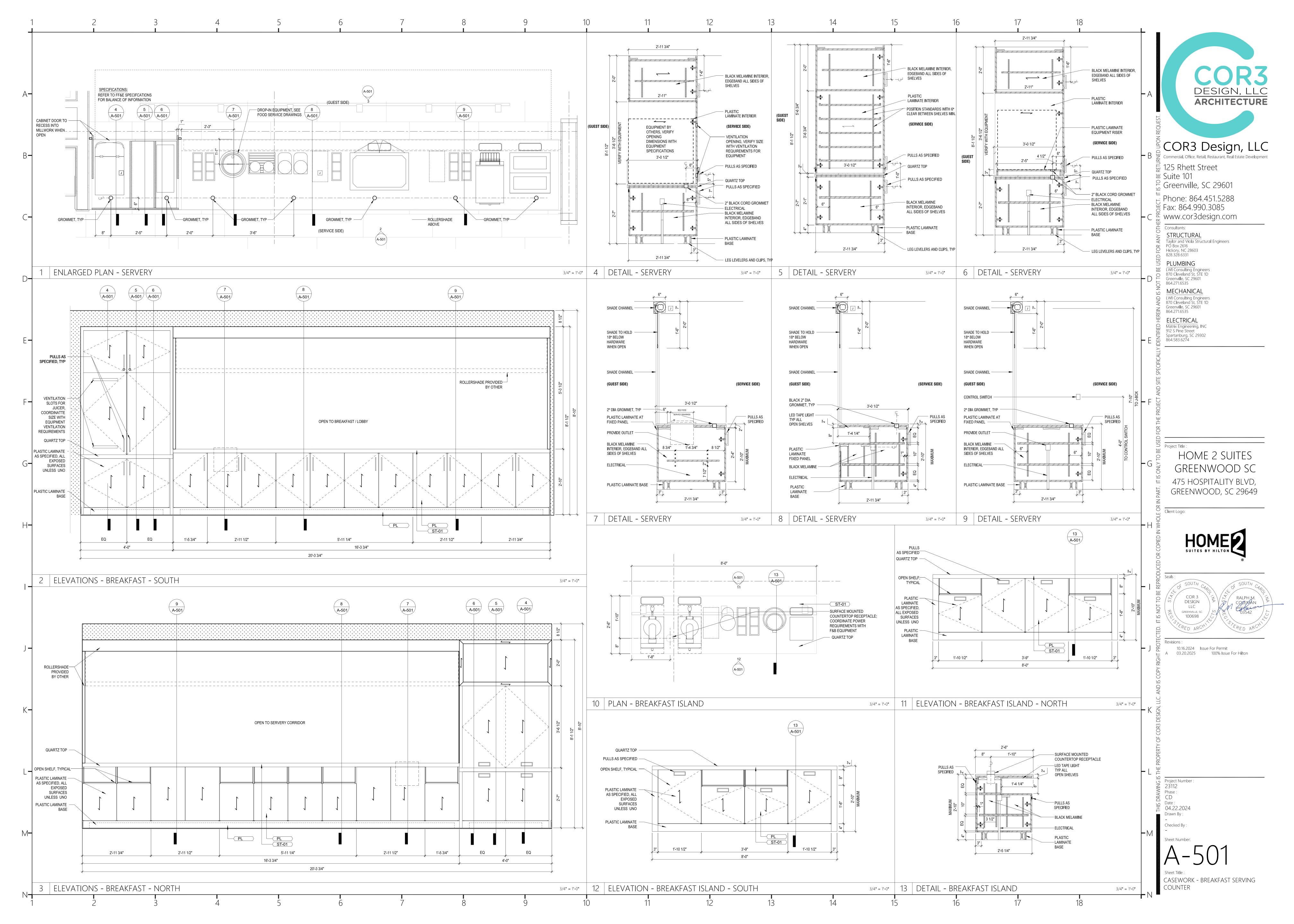


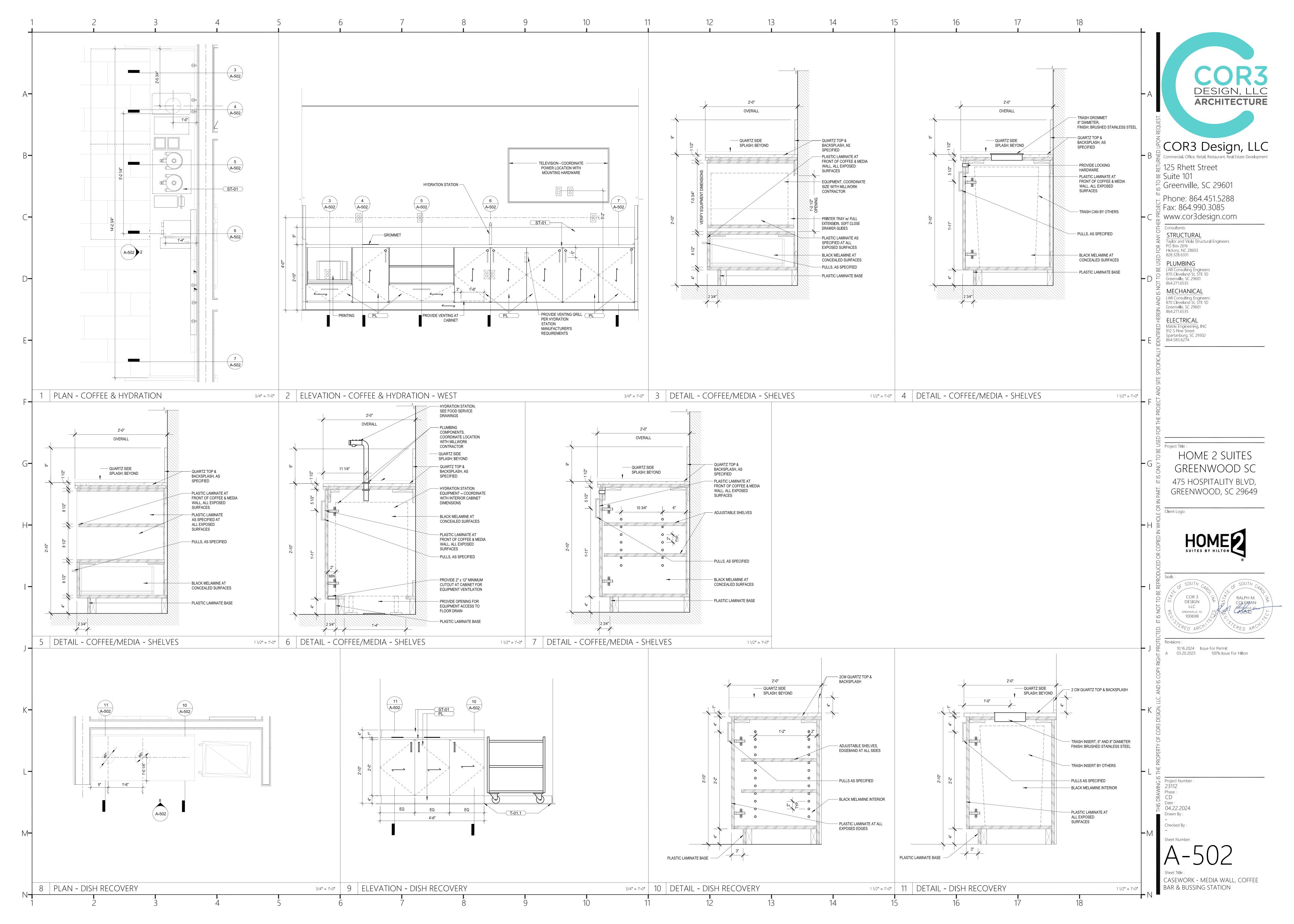


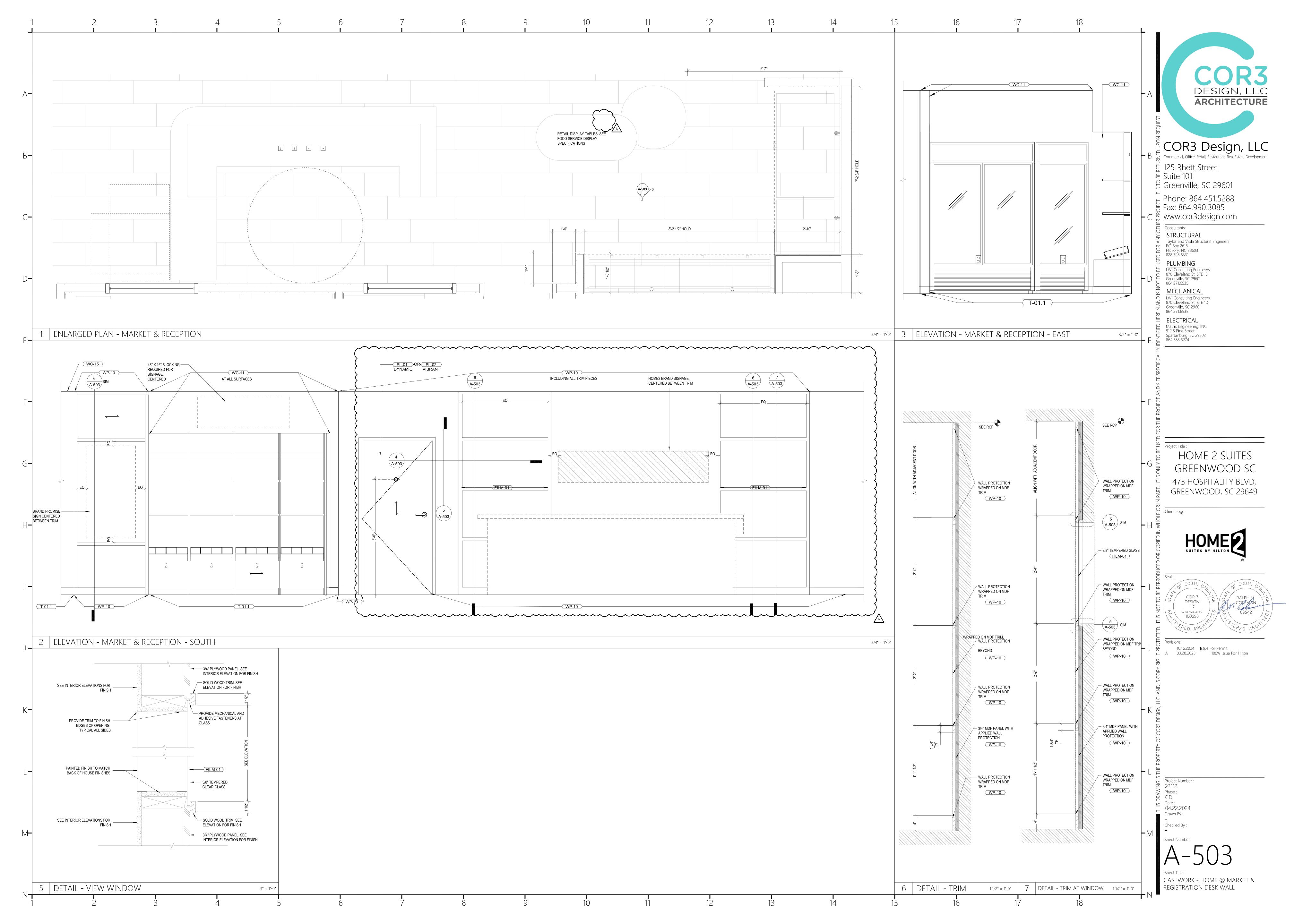


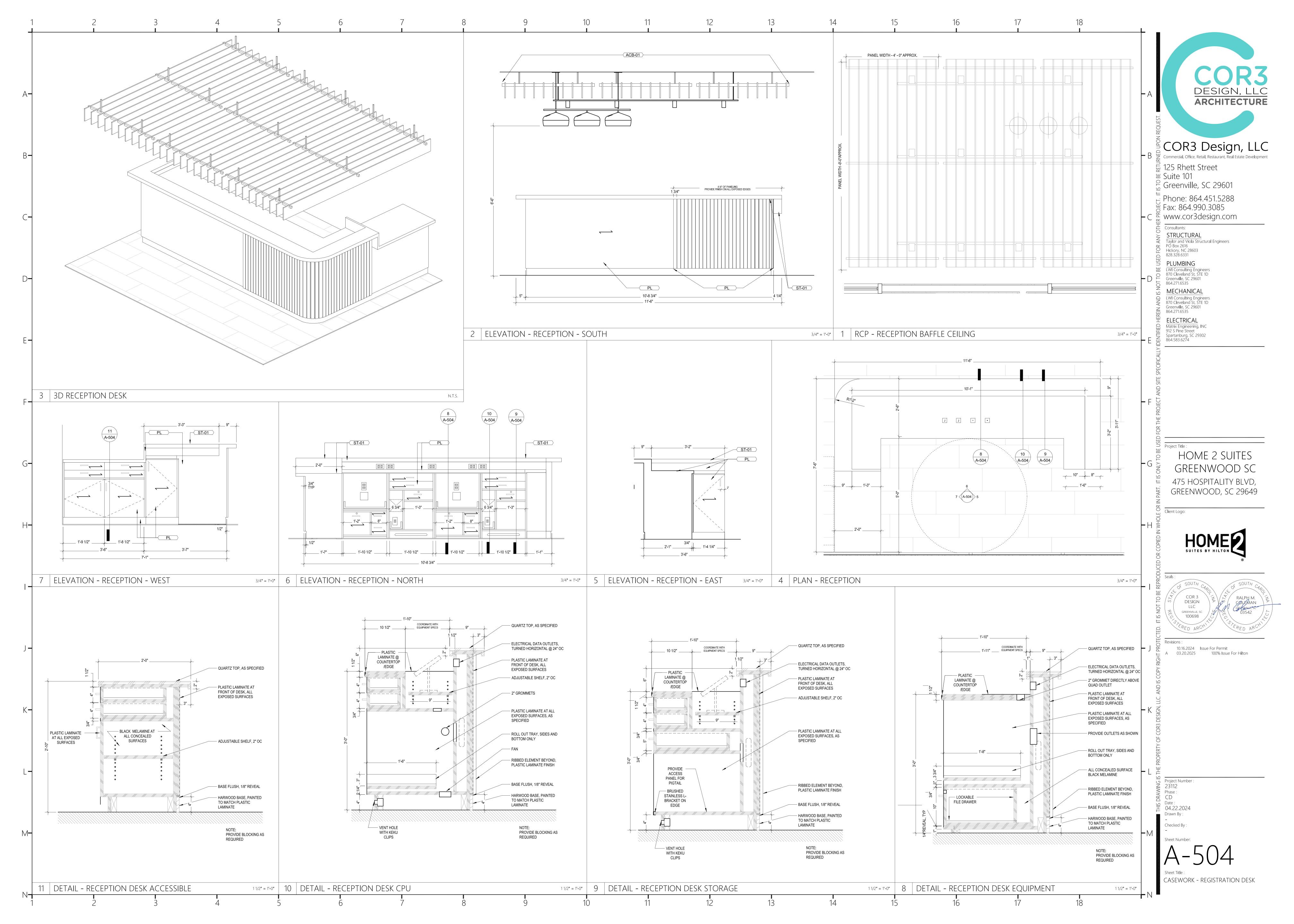


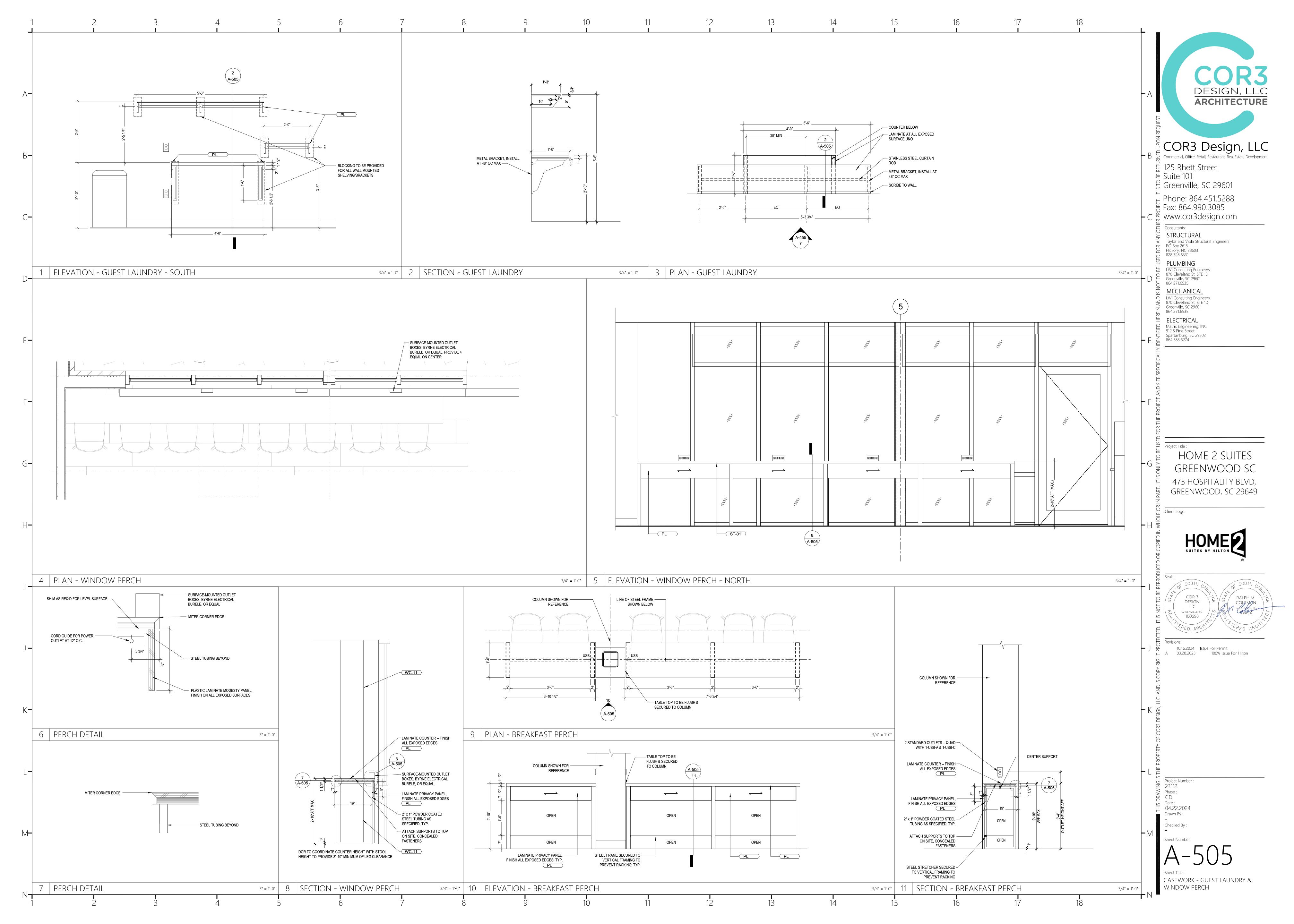


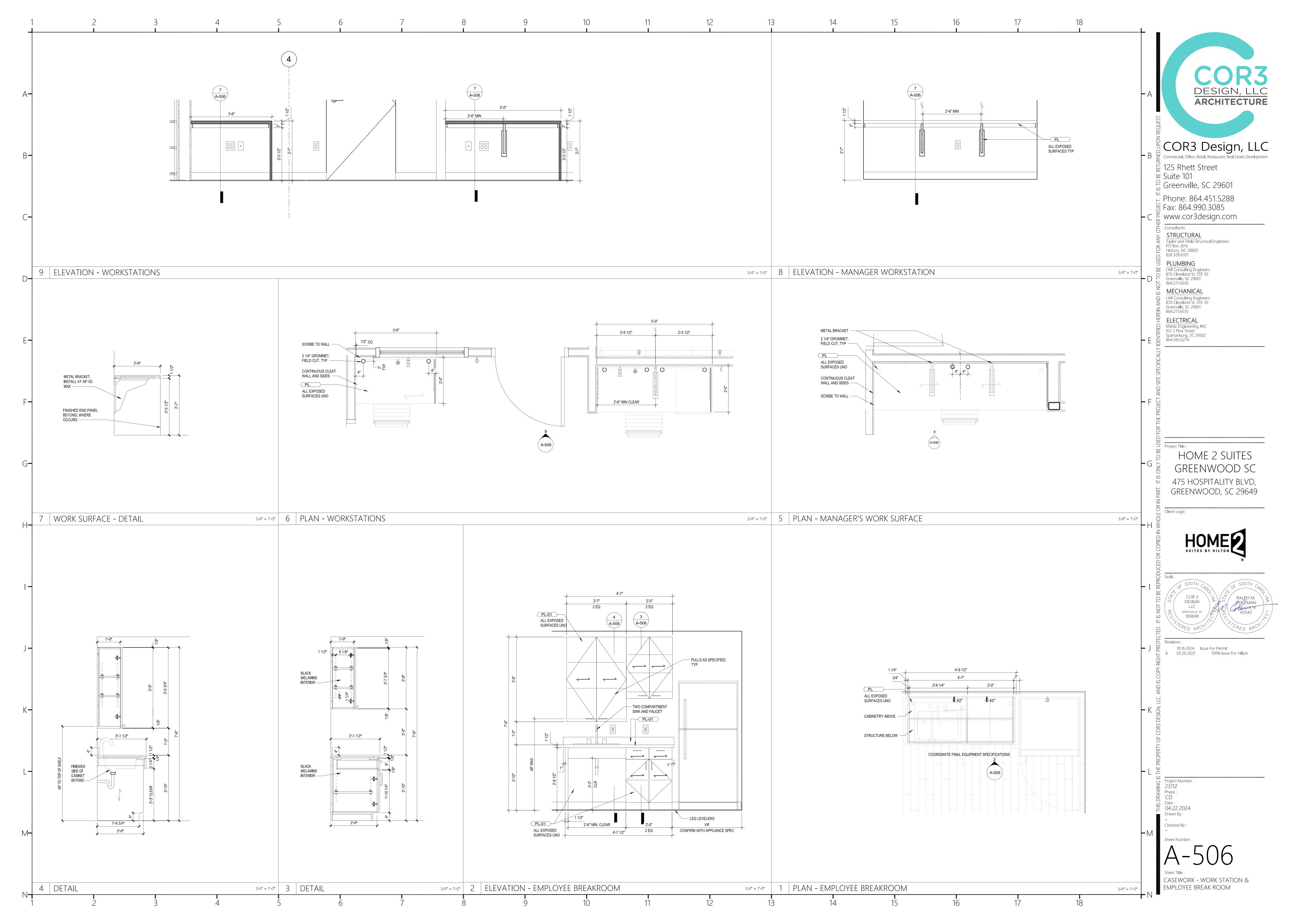


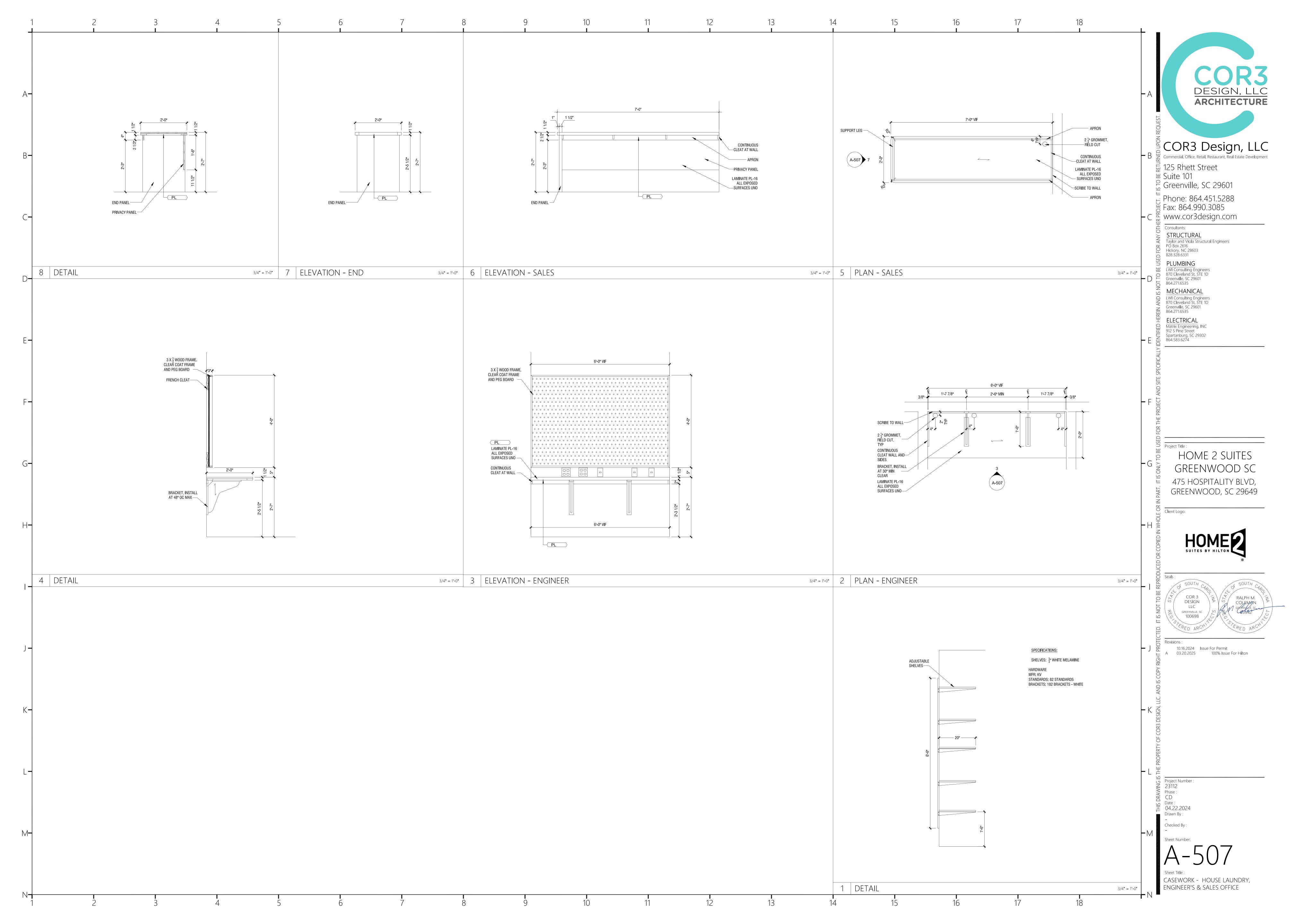


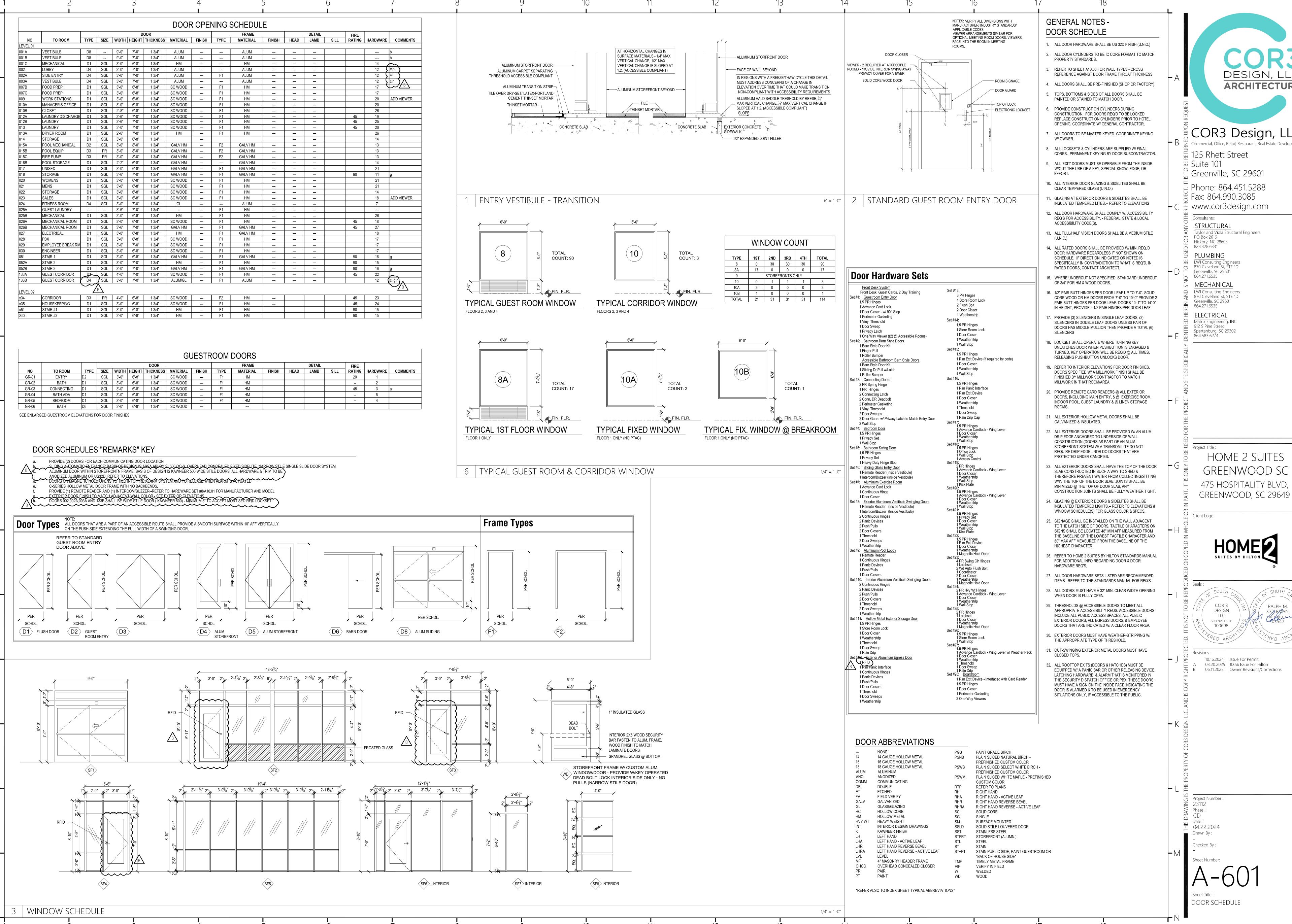












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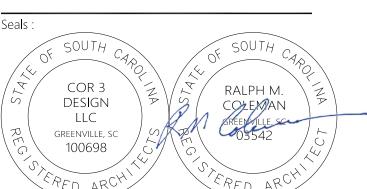
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DOOR SCHEDULE

