PROJECT CERTIFICATION

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

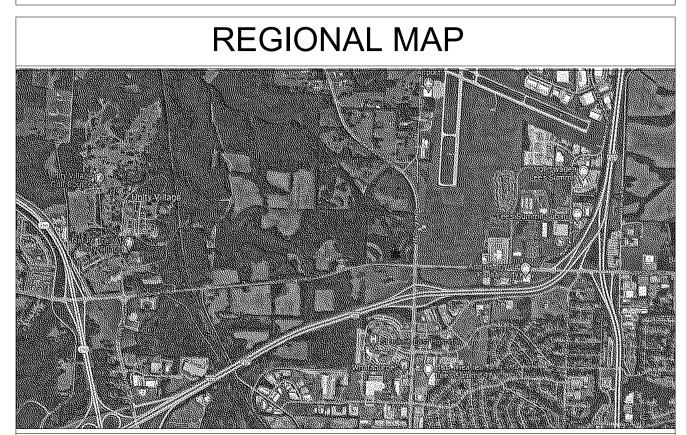
AS-100	G-101	G-208	A-105	A-302	A-406	A-502	A-707	A-725
AS-101	G-102	G-209	A-106	A-303	A-407	A-503	A-715	A-726
G-001	G-103	G-210	A-120	A-304	A-408	A-504	A-716	A-727
G-002	G-200	G-300	A-121	A-305	A-410	A-600	A-717	A-728
G-003	G-201	G-301	A-122	A-306	A-411	A-601	A-718	A-729
G-004	G-202	G-302	A-123	A-400	A-412	A-602	A-719	A-730
G-005	G-203	G-303	A-125	A-401	A-413	A-700	A-720	A-731
G-006	G-204	A-101	A-200	A-402	A-414	A-701	A-721	A-732
G-007	G-205	A-102	A-201	A-403	A-415	A-704	A-722	A-733
G-008	G-206	A-103	A-300	A-404	A-500	A-705	A-723	A-734
G-100	G-207	A-104	A-301	A-405	A-501	A-706	A-724	

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

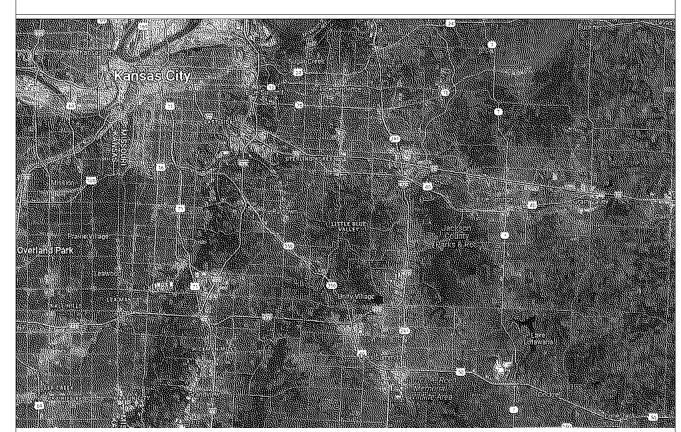
SEAL



David E Hendrikse, AIA



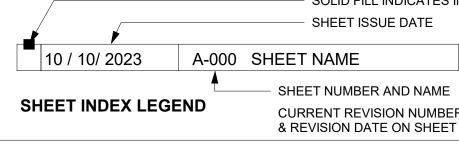
VICINITY MAP



TOWNEPLACE SUITES 1810 NORTHEAST DOUGLAS ST. LEE'S SUMMIT 64064 USA

GENERAL			ARCHITECTURAL			PLUMBING		
Sheet Issue Date Number Sheet Name	Current Rev. Revision Date	Sheet Issue Date	Sheet	Current Rev. Revision Date	Sheet Current			
■ 11/01/2023 AS-100 SITE PLAN	Rev. Revision Date	11/01/2023	A-401 ACC. STUDIO QQ UNIT PLAN			SEWER PLAN - 1ST FLOOR - AREA A		
 11/01/2023 AS-101 ARCHITECTURAL SITE AMENITIES 11/01/2023 G-001 TITLE SHEET 			A-402STUDIO KING UNIT PLANA-403STUDIO QQ CENTER UNIT PLAN			SEWER PLAN - 2ND FLOOR - AREA A		
11/01/2023 G-002 GENERAL INFORMATION			A-404 STUDIO QQ END UNIT PLAN			SEWER PLAN - 2ND FLOOR - AREA B		
 11/01/2023 G-003 PLAN GENERAL NOTES 11/01/2023 G-004 GENERAL INFORMATION 			A-405ONE BED KING UNIT PLAN W/ BALCONYA-406ONE BED KING UNIT PLAN W/ BALCONY-INT ELEV		 11/01/2023 PS401 SANITARY S 11/01/2023 PW101 WATER & G 			
 11/01/2023 G-005 GENERAL INFORMATION 11/01/2023 G-006 GENERAL INFORMATION 			A-407ONE BED KING UNIT PLANA-408ONE BED QUEEN UNIT INT ELEVS		 11/01/2023 PW102 WATER & G 11/01/2023 PW111 WATER & G 			
11/01/2023 G-007 GENERAL INFORMATION		11/01/2023	A-410 ENLARGED 1ST FLOOR PLAN - COMMON AREAS		■ 11/01/2023 PW112 WATER & G	AS PLAN - 2ND FLOOR - AREA B		
■ 11/01/2023 G-008 TOWNEPLACE KEYNOTES ■ 11/01/2023 G-100 CODE ANALYSIS			A-411 ENLARGED 1ST FLOOR PLAN - GARAGE PLAN A-412 ENLARGED 3RD FLOOR PLAN - COMMON AREAS		 11/01/2023 PW401 WATER PLA 11/01/2023 P501 PLUMBING 			
■ 11/01/2023 G-101 CODE ANALYSIS			A-413 ENLARGED MISC COMMON AREA PLANS					
Image: 11/01/2023 G-102 PARTITION ASSEMBLIES 11/01/2023 G-103 ASSEMBLIES - FLOOR/CEILING			A-414PUBLIC SPACE DETAILSA-415UNIT DETAILS					
 11/01/2023 G-200 UL ASSEMBLIES - D916 11/01/2023 G-201 UL ASSEMBLIES - D916 / G566 			A-500 WATERPROOFING DETAILS A-501 DETAILS					
■ 11/01/2023 G-202 UL ASSEMBLIES - L546		11/01/2023	A-502 DETAILS					
■ 11/01/2023 G-203 UL ASSEMBLIES - L546 ■ 11/01/2023 G-204 UL ASSEMBLIES - P545			A-503 DETAILS A-504 BALCONY AND RAILING DETAILS					
■ 11/01/2023 G-205 UL ASSEMBLIES - P545 / U301			A-600 WINDOW / DOOR / FINISH SCHEDULES					
■ 11/01/2023 G-206 UL ASSEMBLIES - U301 / U305 ■ 11/01/2023 G-207 UL ASSEMBLIES - U305			A-601 DOOR DETAILS A-602 WINDOW DETAILS					
 11/01/2023 G-208 UL ASSEMBLIES - U341 11/01/2023 G-209 UL ASSEMBLIES - U415 			A-700 GUESTROOM DETAILS A-701 GUESTROOM DETAILS - ACC.		PR	ROJECT DATA		
■ 11/01/2023 G-210 UL ASSEMBLIES - U415 / X790		11/01/2023	A-704 GUESTROOM BATHROOMS SHOWERS					
 11/01/2023 G-300 ACCESSIBILITY STANDARDS 11/01/2023 G-301 ACCESSIBILITY STANDARDS 			A-705 GUESTROOM BATHROOMS TUBS A-706 ACC. GUESTROOM BATHROOMS TUBS					
11/01/2023 G-302 ACCESSIBILITY STANDARDS		11/01/2023	A-707 ACC. GUESTROOM BATHROOMS ROLL-IN					
I1/01/2023 G-303 ACCESSIBILITY STANDARDS CIVIL UNDER SEPARATE REVIEW, REFERENCE			A-715FINISH TRANSITION DETAILSA-716BUFFET ISLAND		PROJECT DESIGN IN	FORMATION		
		11/01/2023	A-717 FOOD PREP & BUSSING STATION A-718 BUFFET		NEW CONSTRUCTION:			
STRUCTURAL		11/01/2023	A-719 FITNESS CENTER		ZONING:	PLANNED COMMUNITY COMMERCIAL		
Sheet Sheet Sheet Issue Date Number Sheet Issue Date Number	Rev. Revision Date		A-720 LOBBY AREAS - INTERIOR ELEVATIONS A-721 WELCOME DESK		CODE:	2018 INTERNATIONAL BUILDING CODE		
Image: 11/01/2023 S001 GENERAL NOTES Image: 11/01/2023 S002 GENERAL NOTES		11/01/2023	A-722 THE HUB			2018 INTERNATIONAL PLUMBING CODE 2018 INTERNATIONAL MECHANICAL CODE		
 11/01/2023 S003 SPECIAL INSPECTIONS 11/01/2023 S004 SCHEDULES 		■ 11/01/2023	A-723 COMMUNITY, HUB & ON-US ENLARGED PLANS, ELEVATIONS & DETAILS			2018 INTERNATIONAL FUEL GAS CODE 2018 INTERNATIONAL FIRE CODE		
■ 11/01/2023 S005 SCHEDULES			A-724 FITNESS CENTER & HYDRATION STATION A-725 PUBLIC RESTROOMS			2017 NATIONAL ELECTRIC CODE 2009 ACCESSIBILITY CODE ICC/ANSI 117-1		
■ 11/01/2023 S010 GRID DIMENSION PLAN ■ 11/01/2023 S100 PIER PLAN			A-725 POBLIC RESTROOMS A-726 BUFFET DETAILS			LEE'S SUMMIT AMENDMENTS TO ENERGY CODE		
■ 11/01/2023 S101 FOUNDATION PLAN			A-727 IN A PINCH A-728 CONNECTION CENTER		OCCUPANCY GROUP:	R-1, HOTEL TRANSIENT A-2, UNCONCENTRATED ASSEMBLY		
 11/01/2023 S102 LEVEL 1 FRAMING PLAN 11/01/2023 S103 LEVEL 2 STEEL & PODIUM PLAN 		11/01/2023	A-729 FLEX DETAILS			A-4, SWIMMING POOL		
 11/01/2023 S104 LEVEL 2 FRAMING PLAN 11/01/2023 S105 LEVEL 3 FRAMING PLAN 			A-730 HYDRATION STATION/ ICE DISPENSER A-731 CORRIDOR ELEVATIONS		TYPE OF CONSTRUCTION:	S-2, OPEN PARKING GARAGE R-1, A-2, A-4: TYPE VA		
Image: 11/01/2023 S105 LEVEL 3 FRAMING PLAN Image: 11/01/2023 S106 LEVEL 4 FRAMING PLAN		11/01/2023	A-732 GUESTROOM DETAILS			S-2: TYPE IIA		
■ 11/01/2023 S107 ROOF FRAMING PLAN ■ 11/01/2023 S400 ENLARGED VIEWS			A-733GUESTROOM BATHROOM DETAILSA-734ACC. GUESTROOM BATHROOM DETAILS		ENERGY CONSERVATION:	WALLS AS PART OF BLDG ENVELOPE R-11		
■ 11/01/2023 S500 TYPICAL DETAILS			MECHANICAL			FLOORS AS PART OF BLDG ENVELOPE R-19 ROOFS AS PART OF BLDG ENVELOPE R-19		
■ 11/01/2023 S501 DETAILS ■ 11/01/2023 S502 DETAILS			Sheet	Current		CEILINGS AS PART OF BLDG ENVELOPE R-30		
■ 11/01/2023 S503 DETAILS		Sheet Issue Date	Number Sheet Name MEP1 MECHANICAL ELECTRICAL PLUMBING COVERSHEET	Rev. Revision Date	BUILDING SUMMARY:			
■ 11/01/2023 S504 DETAILS ■ 11/01/2023 S505 STEEL DETAILS			MEP2 SITE UTILITIES PLAN MEP3 SITE LIGHTING PLAN		NUMBER: HEIGHT:	1 TOTAL BUILDING 4 STORIES, 50'-0"		
■ 11/01/2023 S510 DETAILS ■ 11/01/2023 S511 DETAILS		11/01/2023	MEP4 MEP PLAN - ROOF		SQUARE FOOTAGES:	GROSS		
■ 11/01/2023 S511 DETAILS ■ 11/01/2023 S512 DETAILS			M101 HVAC PLAN- 1ST FLOOR- AREA A M102 HVAC PLAN-2ND-4TH FLOORS - AREA A		FIRST FLOOR	22, 735 S.F.		
 11/01/2023 S515 PRECAST DETAILS 11/01/2023 S520 ROOF DETAILS 			M111 HVAC PLAN - 1ST FLOOR- AREA B		SECOND FLOOR THIRD FLOOR	20,161 S.F. 20,161 S.F.		
Image: 11/01/2023 S530 SHEAR WALL DETAILS			M112HVAC PLAN - 2ND-4TH FLOORS - AREA BM501HVAC DETAILS		FOURTH FLOOR	20,161 S.F.		
ARCHITECTURAL			M601 HVAC SCHEDULES M602 HVAC SCHEDULES		UNIT SUMMARY:	126 TOTAL UNITS		
Sheet Issue Date Number Sheet Name	Rev. Revision Date		ELECTRICAL		ACCESSIBLE UNITS	(6) UNITS - ACC. KING STUDIO (3) UNITS - ACC. Q/Q STUDIO		
I1/01/2023 A-101 FIRST FLOOR PLAN 11/01/2023 A-102 SECOND FLOOR PLAN			Sheet	Current	HI/VI UNITS	(6) UNITS - STUDIO KING		
11/01/2023 A-103 THIRD FLOOR PLAN		Sheet Issue Date		Rev. Revision Date		(3) UNITS - 1 BED QUEEN (3) UNITS - STUDIO Q/Q CTR A		
 11/01/2023 A-104 FOURTH FLOOR PLAN 11/01/2023 A-105 ROOF PLAN 		11/01/2023	EP102 POWER PLAN - 2ND-4TH FLOORS - AREA A EP111 POWER PLAN- 1ST FLOOR - AREA B					
11/01/2023 A-106 ROOFING & FLASHING DETAILS		11/01/2023	EP112 POWER PLAN - 2ND-4TH FLOORS - AREA B		TYPE 'B' UNITS	(66) UNITS - STUDIO KING (3) UNITS - 1 BED QUEEN		
 11/01/2023 A-120 FIRST FLOOR REFLECTED CEILING PLAN 11/01/2023 A-121 SECOND FLOOR REFLECTED CEILING PLAN 			EP401 POWER PLAN - GUEST ROOMS EL101 LIGHTING PLAN - 1ST FLOOR - AREA A			(3) UNITS - 1 BED KING		
11/01/2023 A-122 THIRD FLOOR REFLECTED CEILING PLAN		11/01/2023	EL102 LIGHTING PLAN - 2ND & 3RD FLOOR - AREA A			(27) UNITS - STUDIO Q/Q CTR A (6) UNITS - STUDIO Q/Q END C		
• 11/01/2023 A-123 FOURTH FLOOR REFLECTED CEILING PLAN • 11/01/2023 A-125 CEILING DETAILS			EL103LIGHTING PLAN - 4TH FLOOR - AREA AEL111LIGHTING PLAN - 1ST FLOOR - AREA B		TOTAL UNITS	(126) UNITS		
■ 11/01/2023 A-200 EXTERIOR ELEVATIONS ■ 11/01/2023 A-201 EXTERIOR ELEVATIONS		11/01/2023	EL112 LIGHTING PLAN - 2ND & 3RD FLOOR - AREA B		SQUARE FOOTAGE:	<u>GROSS</u> <u>NET</u>		
11/01/2023 A-300 BUILDING SECTIONS		11/01/2023	EL113LIGHTING PLAN - 4TH FLOOR - AREA BEL401LIGHTING PLAN - GUEST ROOMS		STUDIO KING ACC. KING STUDIO	341 S.F. 305 S.F. 469 S.F. 424 S.F.		
■ 11/01/2023 A-301 WALL SECTIONS ■ 11/01/2023 A-302 WALL SECTIONS		11/01/2023	FS101 FIRE PROTECTION & SECURTY SYSTEM PLAN - 1ST FLOOR - AREA A		1 BED QUEEN STUDIO Q/Q CTR A	527 S.F. 442 S.F.		
11/01/2023 A-303 ELEVATOR SECTION & DETAILS		11/01/2023	FS102 FIRE PROTECTION & SECURITY SYSTEM PLAN -		STUDIO Q/Q END C STUDIO Q/Q END C ACC. STUDIO Q/Q			
Image: 11/01/2023 A-304 STAIR SECTION & DETAILS Image: 11/01/2023 A-305 STAIR SECTION & DETAILS		11/01/2023	2ND-4TH FLOORS - AREA A FS111 FIRE PROTECTION & SECURITY SYSTEM PLAN - 1ST		1 BED KING	459 S.F. 424 S.F. 597 S.F. 515 S.F.		
11/01/2023 A-306 FRONT CANOPY PLAN / ELEV. / SECTION / & DETAIL:	8	■ 11/01/2023	FLOOR - AREA B FS112 FIRE PROTECTION & SECURITY SYSTEM PLAN -		SITE SUMMARY:			
■ 11/01/2023 A-400 ACC. STUDIO KING UNIT PLAN			2ND-4TH FLOORS - AREA B		SEE CIVIL FOR PARKING	G		
SOLID FILL INDICATES INC	USION IN ISSUE		E501ELECTRICAL DETAILSE601ELECTRICAL SCHEDULES		NOTE: SQUARE FOOTAGE			
SHEET ISSUE DATE			E602 ELECTRICAL SCHEDULES E603 ELECTRICAL SCHEDULES			CALCULATION: OUTSIDE PERIMETER OF STUD (ENTIRE		
10 / 10/ 2023 A-000 SHEET NAME -	10 / 10/ 2023		E603 ELECTRICAL SCHEDULES E604 ELECTRICAL SCHEDULES		BUILDING) LESS THE TOTAL	OF THE GROSS UNIT SQUARE FOOTAGE PER FLOOR.		
SHEET NUMBER AND NAME					EXTERIOR STUD WALL AND	VOR OUTSIDE OF CORRIDOR STUD WALL. PERIMETER, TAKEN FROM INSIDE OF DEMISING,		
SHEET INDEX LEGEND CURRENT REVISION NUMBER & REVISION DATE ON SHEET					EXTERIOR, AND CORRIDOR			

	GENERAL		ARCHITECTURAL	PLUMBING			
Sheet		Current	Sheet		Current	Sheet	Current
Sheet Issue Date Number Image: 11/01/2023 AS-100	Site PLAN	Rev. Revision Date	Sheet Issue Date Number Image: 11/01/2023 A-401	Sheet Name ACC. STUDIO QQ UNIT PLAN	Rev. Revision Date	Sheet Issue Date Number Image: Number Number Image: Number Number	Sheet Name Rev. Revision Date EWER PLAN - 1ST FLOOR - AREA A
	ARCHITECTURAL SITE AMENITIES			STUDIO KING UNIT PLAN STUDIO QQ CENTER UNIT PLAN			EWER PLAN - 2ND FLOOR - AREA A
 11/01/2023 G-001 11/01/2023 G-002 	GENERAL INFORMATION			STUDIO QQ END UNIT PLAN		 11/01/2023 PS111 SANITARY SI 11/01/2023 PS112 SANITARY SI 	EWER PLAN - 131 FLOOR - AREA B
	PLAN GENERAL NOTES GENERAL INFORMATION			ONE BED KING UNIT PLAN W/ BALCONY		■ 11/01/2023 PS401 SANITARY S	
	GENERAL INFORMATION GENERAL INFORMATION			ONE BED KING UNIT PLAN W/ BALCONY-INT ELEV ONE BED KING UNIT PLAN		 11/01/2023 PW101 WATER & GA 11/01/2023 PW102 WATER & GA 	
	GENERAL INFORMATION			ONE BED QUEEN UNIT INT ELEVS		■ 11/01/2023 PW111 WATER & GA	
	GENERAL INFORMATION TOWNEPLACE KEYNOTES			ENLARGED 1ST FLOOR PLAN - COMMON AREAS ENLARGED 1ST FLOOR PLAN - GARAGE PLAN		 11/01/2023 PW112 WATER & GA 11/01/2023 PW401 WATER PLAI 	
■ 11/01/2023 G-100				ENLARGED 3RD FLOOR PLAN - COMMON AREAS		■ 11/01/2023 P501 PLUMBING D	ETAILS & SCHEDULES
 11/01/2023 G-101 11/01/2023 G-102 	PARTITION ASSEMBLIES			ENLARGED MISC COMMON AREA PLANS PUBLIC SPACE DETAILS			
■ 11/01/2023 G-103	ASSEMBLIES - FLOOR/CEILING		■ 11/01/2023 A-415	UNIT DETAILS			
	UL ASSEMBLIES - D916 UL ASSEMBLIES - D916 / G566		 11/01/2023 A-500 11/01/2023 A-501 	WATERPROOFING DETAILS			
■ 11/01/2023 G-202	UL ASSEMBLIES - L546		■ 11/01/2023 A-502	DETAILS			
	UL ASSEMBLIES - L546 UL ASSEMBLIES - P545		 11/01/2023 A-503 11/01/2023 A-504 	DETAILS BALCONY AND RAILING DETAILS			
	UL ASSEMBLIES - P545 / U301			WINDOW / DOOR / FINISH SCHEDULES			
	UL ASSEMBLIES - U301 / U305 UL ASSEMBLIES - U305		 11/01/2023 A-601 11/01/2023 A-602 				
	UL ASSEMBLIES - U341			GUESTROOM DETAILS		PR	OJECT DATA
	UL ASSEMBLIES - U415			GUESTROOM DETAILS - ACC.			
	UL ASSEMBLIES - U415 / X790 ACCESSIBILITY STANDARDS			GUESTROOM BATHROOMS SHOWERS GUESTROOM BATHROOMS TUBS			
■ 11/01/2023 G-301	ACCESSIBILITY STANDARDS		■ 11/01/2023 A-706	ACC. GUESTROOM BATHROOMS TUBS			
	ACCESSIBILITY STANDARDS ACCESSIBILITY STANDARDS			ACC. GUESTROOM BATHROOMS ROLL-IN FINISH TRANSITION DETAILS			
	NDER SEPARATE REVIEW, REFERENCE FE)P	■ 11/01/2023 A-716	BUFFET ISLAND		PROJECT DESIGN INF	ORMATION
			 11/01/2023 A-717 11/01/2023 A-718 	FOOD PREP & BUSSING STATION BUFFET		NEW CONSTRUCTION:	
	STRUCTURAL		■ 11/01/2023 A-719	FITNESS CENTER		ZONING:	PLANNED COMMUNITY COMMERCIAL
Sheet Issue Date Number	Sheet Name	Current Rev. Revision Date	■ 11/01/2023 A-720 ■ 11/01/2023 A-721	LOBBY AREAS - INTERIOR ELEVATIONS		CODE:	2018 INTERNATIONAL BUILDING CODE
	GENERAL NOTES GENERAL NOTES		■ 11/01/2023 A-721 ■ 11/01/2023 A-722				2018 INTERNATIONAL PLUMBING CODE
■ 11/01/2023 S003	SPECIAL INSPECTIONS		■ 11/01/2023 A-723	COMMUNITY, HUB & ON-US ENLARGED PLANS, ELEVATIONS & DETAILS			2018 INTERNATIONAL MECHANICAL CODE 2018 INTERNATIONAL FUEL GAS CODE
	SCHEDULES SCHEDULES		■ 11/01/2023 A-724	FITNESS CENTER & HYDRATION STATION			2018 INTERNATIONAL FIRE CODE 2017 NATIONAL ELECTRIC CODE
	GRID DIMENSION PLAN		■ 11/01/2023 A-725				2009 ACCESSIBILITY CODE ICC/ANSI 117-1 LEE'S SUMMIT AMENDMENTS TO ENERGY CODE
	PIER PLAN FOUNDATION PLAN		 11/01/2023 A-726 11/01/2023 A-727 			OCCUPANCY GROUP:	R-1, HOTEL TRANSIENT
	LEVEL 1 FRAMING PLAN			CONNECTION CENTER			A-2, UNCONCENTRATED ASSEMBLY
	LEVEL 2 STEEL & PODIUM PLAN		 11/01/2023 A-729 11/01/2023 A-730 	FLEX DETAILS HYDRATION STATION/ ICE DISPENSER			A-4, SWIMMING POOL S-2, OPEN PARKING GARAGE
	LEVEL 2 FRAMING PLAN LEVEL 3 FRAMING PLAN		■ 11/01/2023 A-731	CORRIDOR ELEVATIONS		TYPE OF CONSTRUCTION:	R-1, A-2, A-4: TYPE VA
■ 11/01/2023 S106	LEVEL 4 FRAMING PLAN			GUESTROOM DETAILS GUESTROOM BATHROOM DETAILS			S-2: TYPE IIA
	ROOF FRAMING PLAN ENLARGED VIEWS			ACC. GUESTROOM BATHROOM DETAILS		ENERGY CONSERVATION:	WALLS AS PART OF BLDG ENVELOPE R-11
■ 11/01/2023 S500	TYPICAL DETAILS			MECHANICAL			FLOORS AS PART OF BLDG ENVELOPE R-19 ROOFS AS PART OF BLDG ENVELOPE R-19
	DETAILS DETAILS		Sheet		Current		CEILINGS AS PART OF BLDG ENVELOPE R-30
	DETAILS		Sheet Issue Date Number In 11/01/2023 MEP1	Sheet Name MECHANICAL ELECTRICAL PLUMBING COVERSHEET	Rev. Revision Date	BUILDING SUMMARY:	
	DETAILS STEEL DETAILS		■ 11/01/2023 MEP2			NUMBER: HEIGHT:	1 TOTAL BUILDING 4 STORIES, 50'-0"
	DETAILS		 11/01/2023 MEP3 11/01/2023 MEP4 			SQUARE FOOTAGES:	<u>GROSS</u>
	DETAILS DETAILS			HVAC PLAN- 1ST FLOOR- AREA A		FIRST FLOOR	22, 735 S.F.
	PRECAST DETAILS			HVAC PLAN-2ND-4TH FLOORS - AREA A HVAC PLAN - 1ST FLOOR- AREA B		SECOND FLOOR	20,161 S.F.
	ROOF DETAILS SHEAR WALL DETAILS		■ 11/01/2023 M112	HVAC PLAN - 2ND-4TH FLOORS - AREA B		THIRD FLOOR FOURTH FLOOR	20,161 S.F. 20,161 S.F.
■ 11/01/2023 S530	1		 11/01/2023 M501 11/01/2023 M601 			UNIT SUMMARY:	126 TOTAL UNITS
	ARCHITECTURAL		■ 11/01/2023 M602			ACCESSIBLE UNITS	(6) UNITS - ACC. KING STUDIO
Sheet Issue Date Number	Sheet Name	Current Rev. Revision Date		ELECTRICAL			(3) UNITS - ACC. Q/Q STUDIO
 11/01/2023 A-101 11/01/2023 A-102 	FIRST FLOOR PLAN SECOND FLOOR PLAN		Sheet Issue Date Number	Sheet Name	Current Rev. Revision Date	HI/VI UNITS	(6) UNITS - STUDIO KING
■ 11/01/2023 A-103	THIRD FLOOR PLAN		■ 11/01/2023 EP101	POWER PLAN 1ST FLOOR - AREA A			(3) UNITS - 1 BED QUEEN (3) UNITS - STUDIO Q/Q CTR A
 11/01/2023 A-104 11/01/2023 A-105 	FOURTH FLOOR PLAN ROOF PLAN			POWER PLAN - 2ND-4TH FLOORS - AREA A POWER PLAN- 1ST FLOOR - AREA B			
■ 11/01/2023 A-106	ROOFING & FLASHING DETAILS		■ 11/01/2023 EP112	POWER PLAN - 2ND-4TH FLOORS - AREA B		TYPE 'B' UNITS	(66) UNITS - STUDIO KING (3) UNITS - 1 BED QUEEN
	FIRST FLOOR REFLECTED CEILING PLAN SECOND FLOOR REFLECTED CEILING PLAN			POWER PLAN - GUEST ROOMS LIGHTING PLAN - 1ST FLOOR - AREA A			(3) UNITS - 1 BED KING
■ 11/01/2023 A-122	THIRD FLOOR REFLECTED CEILING PLAN			LIGHTING PLAN - 13T FLOOR - AREA A			(27) UNITS - STUDIO Q/Q CTR A (6) UNITS - STUDIO Q/Q END C
 11/01/2023 A-123 11/01/2023 A-125 	FOURTH FLOOR REFLECTED CEILING PLAN			LIGHTING PLAN - 4TH FLOOR - AREA A		TOTAL UNITS	(126) UNITS
	EXTERIOR ELEVATIONS			LIGHTING PLAN - 1ST FLOOR - AREA B LIGHTING PLAN - 2ND & 3RD FLOOR - AREA B		SQUARE FOOTAGE:	<u>GROSS</u> <u>NET</u>
	EXTERIOR ELEVATIONS			LIGHTING PLAN - 4TH FLOOR - AREA B		STUDIO KING	341 S.F. 305 S.F.
 11/01/2023 A-300 11/01/2023 A-301 				LIGHTING PLAN - GUEST ROOMS FIRE PROTECTION & SECURTY SYSTEM PLAN - 1ST		ACC. KING STUDIO 1 BED QUEEN	469 S.F. 424 S.F. 527 S.F. 442 S.F.
■ 11/01/2023 A-302				FLOOR - AREA A		STUDIO Q/Q CTR A STUDIO Q/Q END C	435 S.F. 389 S.F. 518 S.F. 427 S.F.
	ELEVATOR SECTION & DETAILS STAIR SECTION & DETAILS		■ 11/01/2023 FS102	FIRE PROTECTION & SECURITY SYSTEM PLAN - 2ND-4TH FLOORS - AREA A		ACC. STUDIO Q/Q	459 S.F. 424 S.F.
■ 11/01/2023 A-305	STAIR SECTION & DETAILS		■ 11/01/2023 FS111	FIRE PROTECTION & SECURITY SYSTEM PLAN - 1ST FLOOR - AREA B		1 BED KING	597 S.F. 515 S.F.
	FRONT CANOPY PLAN / ELEV. / SECTION / & DETAILS ACC. STUDIO KING UNIT PLAN		■ 11/01/2023 FS112	FIRE PROTECTION & SECURITY SYSTEM PLAN -		SITE SUMMARY:	
			■ 11/01/2023 E501	2ND-4TH FLOORS - AREA B ELECTRICAL DETAILS		SEE CIVIL FOR PARKING	
	SOLID FILL INDICATES INCLUS	ION IN ISSUE	■ 11/01/2023 E601	ELECTRICAL SCHEDULES		NOTE: SQUARE FOOTAGE	
↓	SHEET ISSUE DATE			ELECTRICAL SCHEDULES ELECTRICAL SCHEDULES			CALCULATION: OUTSIDE PERIMETER OF STUD (ENTIRE
10 / 10/ 2023		/ 10/ 2023		ELECTRICAL SCHEDULES		BUILDING) LESS THE TOTAL -GROSS - UNIT CALCULATIO EXTERIOR STUD WALL AND	OF THE GROSS UNIT SQUARE FOOTAGE PER FLOOR. <u>N:</u> CENTERLINE OF PARTY WALL TO OUTSIDE OF OR OUTSIDE OF CORRIDOR STUD WALL.
SHEET INDEX LE	GEND SHEET NUMBER AND NAME CURRENT REVISION NUMBER & REVISION DATE ON SHEET						ERIMETER, TAKEN FROM INSIDE OF DEMISING,



TOWNEPLACE SUITES LEE'S SUMMIT, MO

SHEET INDEX

PRINTS ISSUED 11/01/2023 - CITY SUBMITTAL

REVISIONS:

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CIVIL ENGINEER







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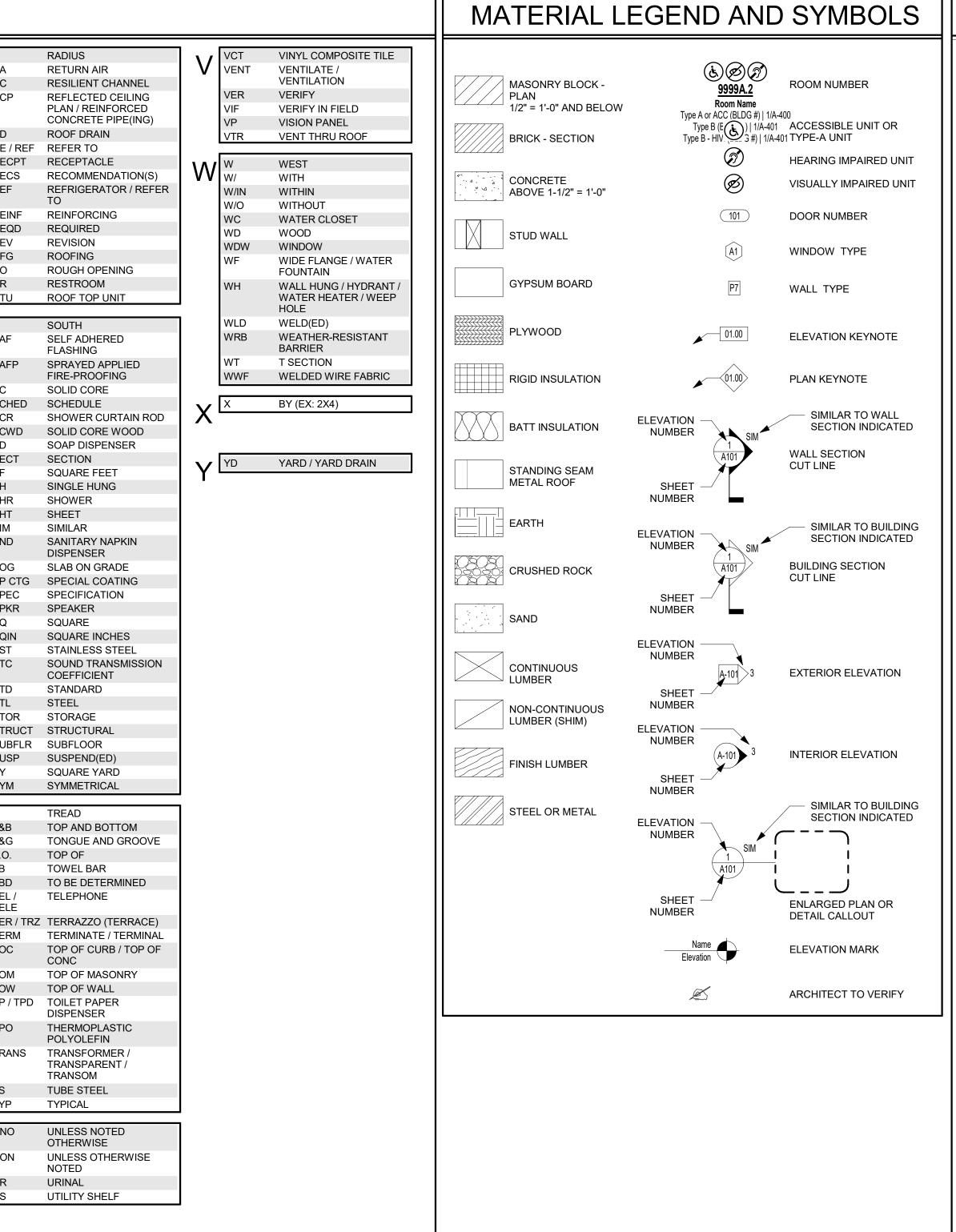
TITLE SHEET

PROJECT NUMBER: 23098

SHEET NUMBER:

G-001

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ABV ACC	ABOVE ACCESSIBLE	ח	DBL DEMO	DOUBLE DEMOLITION / DEMOLISH		IBC	INTERNATIONAL BUILDING CODE	R
ACC	ACOUSTICAL CEILING		DIA	DIAMETER		ID	INTERIOR DESIGNER	
/ (01	TILE		DIAG	DIAGONAL		ID	INSIDE DIAMETER	
AD	AREA DRAIN		DIM	DIMENSION		IDF	INDIVIDUAL	
ADA	AMERICANS WITH		DIMS	DIMENSIONS			DISTRIBUTION FRAME	
	DISABILITIES ACT		DN	DOWN			INDEPENDENT LIVING	
ADAAG	ADA ACCESSIBILITY GUIDELINES		DP	DEEP		IN INDIV	INCHES INDIVIDUAL	
ADF	ACCESSIBLE DRINKING		DR	DOOR		INSUL	INSULATION / INSULATED	
	FOUNTAIN		DS DTL	DOWNSPOUT DETAIL		INT	INTERIOR	
ADH	ADHESIVE		DWG	DRAWING		INV	INVERT	
ADJ AEWC	ADJUSTABLE/ADJACENT ACCESSIBLE ELECTRIC				1			
AEWC	WATER COOLER		Е	EAST		JAN	JANITOR	
AFF	ABOVE FINISH FLOOR	E	EA	EACH	U	JST	JOIST JOINT	
AHJ	AUTHORITY HAVING		EF	EACH FACE		JT	30101	
	JURISDICTION		EJ EL	EXPANSION JOINT ELEVATION		KD	KNOCKED DOWN	
AHU AL	AIR HANDLING UNIT ASSISTED LIVING		ELEC	ELECTRIC(AL)	I K	KIT	KITCHEN	
ALAV	ACCESSIBLE LAVATORY		ELEV	ELEVATOR		KN	KNOX BOX	
ALT	ALTERNATE		ENLG	ENLARGED		·		S
ALUM	ALUMINUM		EPDM	ETHLYENE PROPYLENE		LA		J
AMI	ACCESSIBLE MIRROR			DIENE TERPOLYMER		LAM	LANDSCAPE ARCHITECT LAMINATE	
ANN	FIRE ANNUNCIATOR	I	EQ ES			LAW	LAVINATE	
ANO	PANEL ANNODIZED		ES EW	EACH SIDE EACH WAY		LF	LINEAR FOOT/FEET	
APPD	APPROVED	1	EWC	ELECTRIC WATER		LG	LONG	
APPRO				COOLER		LGTH	LENGTH	
ASD	ACCESSIBLE SOAP	1	EXH	EXHAUST		LKR	LOCKER	
	DISPENSER		EXIST	EXISTING		LSC		
ASH	ACCESSIBLE SHOWER HEAD		EXP	EXPANSION		LT	LIGHT	
ATTEN	ATTENUATION	1	EXT	EXTERIOR	 	MAS	MASONRY	
ATTN	ATTENTION		FA	FIRE ALARM	I M	MATL	MATERIAL	
AU	ACCESSIBLE URINAL		FACP	FIRE ACCESS CONTROL		MAX	MAXIMUM	
		-		PANEL		MB	MARKER BOARD / MAIL	
B.O.	BOTTOM OF	1	FAWCM	FULLY ADHERED WATER CONTROL MEMBRANE		мс	BOX MEMORY CARE	
BD BLDG	BOARD BUILDING	1	FBG	FIBERGLASS		MDF	MAIN DISTRIBUTION	
BLDG BLK	BUILDING BLOCK / BLACK	1	FD	FLOOR DRAIN / FIRE			FRAME	
BLK	BLOCK / BLACK			DEPARTMENT		MECH	MECHANICAL	
BM	BENCH MARK	1	FDN			MFR	MANUFACTURE(ER)	
BO	BY OTHERS		FE	FIRE EXTINGUISHER		MH	MANHOLE	
BOD	BOTTOM OF DECK(ING)		FEC	FIRE EXTINGUISHER CABINET		MI MIN	MIRROR MINIMUM	
BOH	BACK OF HOUSE	1	FF	FINISH FLOOR		MO	MASONRY OPENING	
BOT BRG	BOTTOM (OF) BEARING		FGL	FIBERGLASS		MTD	MOUNTED	
BRKT	BRACKET		FH	FIRE HOSE		MTG HT	MOUNTING HEIGHT	
BRZ	BRONZE		FHA	FAIR HOUSING ACT		MTL	METAL	
BSMT	BASEMENT		FHC FIN	FIRE HOSE CABINET FINISH			NORTH	
BTWN /	BETWEEN		FIN	FIXTURE	N	N N/A	NORTH NOT APPLICABLE	
BTW			FLASH	FLASHING		NIC	NOT IN COUNT / NOT IN	
BUR BUS	BUILT UP ROOFING BUSINESS		FLEX	FLEXIBLE		1110	CONTRACT	
000	DoomLoo	J	FLR	FLOOR		NO	NUMBER	
C TO C	CENTER TO CENTER	1	FND	FOUNDATION		NOM	NOMINAL	
CAB	CABINET		FO FRP	FACE OF FIBER-REINFORCED		NTS	NOT TO SCALE	T
СВ	CERAMIC BASE/CORNER BEAD/CHALKBOARD			PLASTIC		OA	OVERALL	•
CEM /	CEMENT / CEMENTITIOUS		FT	FOOT		OC	ON CENTER	
CEMT			FTG	FOOTING		OD	OUTSIDE DIAMETER	
CFM	CUBIC FEET PER MINUTE			041105	1	OFD	OVERFLOW ROOF DRAIN	
CI	CAST IRON	G	GA GALV	GAUGE GALVANIZED		OFF		
CIP	CAST IN PLACE		GALV GB	GALVANIZED GRAB BAR		OH OPNG		
CJ CL	CONTROL JOINT CENTERLINE	1	GC	GENERAL CONTRACTOR		OPNG	OPENING OPPOSITE	
	CEILING		GEN	GENERAL		OSB	ORIENTED STRAND	
CLO	CLOSET	1	GFRC	GLASS FIBER			BOARD	
CLR	CLEAR			REINFORCED CONCRETE				
CLRM	CLASSROOM		GL GLZ	GLASS GLAZED TILE	P	PA	PUBLIC ADDRESS	
CMP	CORRUGATE METAL PIPE	1	GPM	GLAZED TILE GALLONS/MINUTE		PAR PCP	PARALLEL PORTLAND CEMENT	
CMU	CONCRETE MASONRY UNIT		GR	GRADE			PORTLAND CEMENT PLASTER	
CNTR	COUNTERTOP		GWB	GYPSUM WALL BOARD		PERP	PERPENDICULAR	
CO	CLEANOUT	1	GYP	GYPSUM		PH	PRE-HUNG	
COL	COLUMN		GYP BD	GYPSUM BOARD		PL		
COMB	COMBINATION	1	НВ	HOSE BIBB	1	PLAM PLAS	PLASTIC LAMINATE	
CONC	CONCRETE	н	HB HC	HOSE BIBB HOLLOW CORE		PLAS PLBG	PLASTER PLUMBING	
CONN CONST	CONNECTION CONSTRUCTION	1 1 1	HCWD	HOLLOW CORE WOOD		PLBG	PLUMBING	
CONT	CONTINUOUS	1	HD	HEAVY DUTY OR HAND		PLYWD	PLYWOOD	U
CONTR				DRYER		PNL	PANEL	
COORD	COORDINATE /	1				PNLG	PANELING	
0.07-	COORDINATOR	1	HDNR HDW	HARDENER HARDWARE		PR		
CORR CPT	CORRIDOR CARPET	1	HDWD	HARDWOOD		PRE-FIN PREFAB	PRE-FINISHED PREFABRICATED	
CSK	COUNTERSINK /		НМ	HOLLOW METAL		PREFAB	PREFINISHED	
	COUNTER SUNK		HORIZ	HORIZONTAL		PT	PAINT	
СТ	CERAMIC TILE		HR	HOUR		PTD	PAINTED	
CTG	COATING	1	HT	HEIGHT		PTN	PARTITION	
OTD		1	HTG	HEATING		PTR	PAPER TOWEL	
CTR CY	CENTER CUBIC YARD(S)		HTR	HEATER			RECEPTACLE	



GENERAL NOTES

STANDARDS AND REGULATIONS

- CONTRACTOR SHALL PERFORM ALL WORK IN CONFORMANCE WITH APPLICABLE BUILDING CODES. REGULATIONS, ORDINANCES, UTILITY PROVIDER REQUIREMENTS, AND SIMILAR STANDARDS.
- CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS AND SIMILAR RELEASES REQUIRED FOR CONSTRUCTION AND OCCUPANCY. CONTRACTOR SHALL FURNISH ALL COPIES OF SUCH ITEMS TO OWNER AND ARCHITECT WITHIN 10 DAYS OF RECEIPT. IF PERMITS ARE ISSUED SUBJECT TO CERTAIN CONDITIONS OR REVISIONS TO THE WORK OR PERMITS ARE DELAYED FOR ANY REASON, CONTRACTOR SHALL NOTIFY CONTRACTING OFFICER IMMEDIATELY.
- CONTRACTOR SHALL OBTAIN ALL REQUIRED INSPECTIONS OF THE WORK. CONTRACTOR SHALL REGULARLY UPDATE OWNER AND ARCHITECT REGARDING THE STATUS OF THE INSPECTIONS.
- CONTRACTOR SHALL COORDINATE WORK WITH APPLICABLE UTILITY PROVIDERS.
- CONTRACTOR SHALL BE FAMILIAR WITH AND WORK SHALL BE IN COMPLIANCE WITH REFERENCED FIRE-RATED ASSEMBLY TESTS AND STANDARDS.

ADMINISTRATION OF THE WORK

- CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE MEANS, METHODS AND SEQUENCES OF CONSTRUCTION.
- CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE SAFETY OF ALL CONSTRUCTION PERSONNEL AND AUTHORIZED VISITORS.
- CONTRACTOR SHALL BECOME FULLY ACQUAINTED WITH THE CONDITIONS RELATED TO THE WORK. ANY KNOWN DISCREPANCIES BETWEEN THE DOCUMENTS AND ACTUAL CONDITIONS SHALL BE REPORTED TO THE OWNER FOR RESOLUTION PRIOR TO PROCEEDING WITH WORK RELATED TO THE DISCREPANCY.
- CONTRACTOR SHALL REMOVE AND PROPERLY DISPOSE OF ALL CONSTRUCTION AND DEMOLITION DEBRIS. CONTRACTOR SHALL OBTAIN APPROVAL OF OWNER (AND GOVERNING AUTHORITIES, IF APPLICABLE) FOR DETAILS RELATED TO REMOVAL OF TRASH, INCLUDING SUCH ISSUES AS PATH OF TRAVE
- CONTRACTOR SHALL BECOME FAMILIAR WITH AND COMPLY WITH GOVERNMENT'S PROCEDURES FOR MAINTAINING A SECURE SITE AND BUILDING.
- EACH INSTALLER SHALL EXAMINE SUBSTRATE CONDITION AND/OR SITE CONDITIONS WHICH AFFECT THE QUALITY OF EACH PRODUCT TO BE INSTALLED. IF ANY CONDITIONS EXIST WHICH WILL HAVE A DETRIMENTAL EFFECT ON THE QUALITY OF THE INSTALLATION, THE INSTALLER SHALL IMMEDIATELY NOTIFY THE CONTRACTOR. INSTALLATION SHALL NOT PROCEED UNTIL THE UNSATISFACTORY CONDITIONS ARE CORRECTED. PROCEEDING WITH THE INSTALLATION SHALL SIGNIFY ACCEPTANCE OF THE CONDITIONS.
- CONTRACTOR SHALL MAINTAIN RECORD DRAWINGS ON SITE AT ALL TIMES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING COORDINATION EFFORTS OF ALL SUBCONTRACTORS.
- CONTRACTOR SHALL NOT CLOSE UP CEILING UNTIL ARCHITECT HAS AN OPPORTUNITY TO INSPECT ALL WORK WHICH WILL BE CONCEALED BY CEILING. CONTRACTOR SHALL NOTIFY ARCHITECT AT LEAST TWENTY-FOUR HOURS PRIOR TO CLOSE-UP.
- . CONTRACTOR SHALL LAY OUT WORK AS SOON AS POSSIBLE. ANY DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT FOR RESOLUTION PRIOR TO PROCEEDING WITH THE WORK IN QUESTION.
- USE OF CONSTRUCTION DOCUMENTS
- CONTRACTOR SHALL NOT SCALE DRAWINGS. ONLY WRITTEN DIMENSIONS OR KEYED NOTES SHALL BE USED. CONTACT ARCHITECT IF CLARIFICATION OR ADDITIONAL INFORMATION IS REQUIRED.
- DRAWINGS SHALL NOT BE REPRODUCED FOR SUBMITTALS. DRAWINGS OR PORTIONS OF DRAWINGS USED FOR SUBMITTALS WILL BE REJECTED AND RETURNED TO CONTRACTOR.
- DIMENSIONS ARE AS FOLLOWS UNLESS NOTED OTHERWISE:
- A. FACE OF STUD B. TO CENTERLINE OF COLUMNS, PARTY WALL, WINDOWS AND DOORS
- C. TO TOP OF STRUCTURAL DECK D. TO BOTTOM OF FINISHED CEILING

DEFINITIONS

- "ALIGN" AS USED IN THESE DOCUMENTS SHALL MEAN TO ACCURATELY LOCATE AND FINISH FACES IN THE SAME PLANE AND/OR TO INSTALL NEW CONSTRUCTION ADJACENT TO EXISTING CONSTRUCTION WITHOUT ANY VISIBLE JOINTS OR SURFACE IRREGULARITIES.
- "CLEAR" AS USED IN THESE DOCUMENTS SHALL MEAN THAT THE CONDITION IS NOT ADJUSTABLE WITHOUT THE APPROVAL OF THE ARCHITECT, CLEAR DIMENSIONS ARE TYPICALLY TO FINISH FACE.
- "MAXIMUM" OR "MAX" AS USED IN THESE DOCUMENTS SHALL MEAN THAT THE CONDITION IS SLIGHTLY ADJUSTABLE BUT MAY NOT VARY TO A DIMENSION OR QUANTITY GREATER THAN THAT SHOWN WITHOUT APPROVAL OF THE ARCHITECT.
- "MINIMUM" OR "MIN." AS USED IN THESE DOCUMENTS SHALL MEAN THAT THE CONDITION IS SLIGHTLY ADJUSTABLE BUT MAY NOT VARY TO A DIMENSION OR QUANTITY LESS THAN THAT SHOWN WITHOUT APPROVAL OF THE ARCHITECT.
- "TYPICAL" OR "TYP" AS USED IN THESE DOCUMENTS SHALL MEAN THAT THE CONDITION OR DIMENSION IS THE SAME OR REPRESENTATIVE FOR SIMILAR CONDITIONS THROUGHOUT.
- . "+/-" AS USED IN THESE DOCUMENTS SHALL MEAN THE DIMENSION OR QUANTITY IS SLIGHTLY ADJUSTABLE TO ACCOMMODATE ACTUAL CONDITIONS. GENERAL CONSTRUCTION ISSUES
- HATCHED AREAS INDICATE AREA TO BE FURRED DOWN ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE.
- 2. ALL PLUMBING SUPPLY LINES IN EXTERIOR WALLS TO RECEIVE FULL INSULATION.
- 3. DO NOT ALLOW EXTERIOR SHEATHING TO BE IN CONTACT WITH CONCRETE SURFACE.
- . HOLD ALL WOOD TRIM A MINIMUM OF 1/4-INCH ABOVE CONTACT WITH HORIZONTAL CONCRETE SURFACES.

PASSIVE SUB SLAB DEPRESSURIZATION RADON CONTROL SYSTEM

- PROVIDE UNDERSLAB RADON MITIGATION SYSTEM WITH REQUIRED VENTING.
- DESIGN OF SUB SLAB DEPRESSURIZATION RADON CONTROL SYSTEM WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- PROVIDE ELECTRICAL JUNCTION BOX IN ATTIC FOR POSSIBLE FUTURE INSTALLATION OF WARNING DEVICE FOR EACH VERTICAL STACK.
- PROVIDE 15 AMP, 115 VOLT ELECTRIC CIRCUIT AND JUNCTION BOX FOR FUTURE INSTALLATION OF VENT
- ALL CONCRETE SLABS THAT COME IN CONTACT WITH THE GROUND SHALL BE LAID OVER A GAS PERMEABLE MATERIAL MADE UP OF EITHER A MINIMUM 4" THICK UNIFORM OF CLEAN AGGREGATE OR A MINIMUM 4" THICK UNIFORM LAYER OF SAND, OVERLAIN BY A LAYER OR STRIPS OF MANUFACTURED MATTING DESIGNED TO ALLOW THE LATERAL FLOW OF SOIL GASES.
- ALL CONCRETE FLOOR SLABS SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH LOCAL BUILDING CODES.
- ALL OPENINGS, GAPS, AND JOISTS IN FLOOR AND WALL ASSEMBLIES IN CONTACT WITH SOIL OR GAPS AROUND PIPES, TOILETS, BATHTUBS OR DRAINS PENETRATING THESE ASSEMBLIES SHALL BE FILLED OR CLOSED WITH MATERIALS THAT PROVIDE A PERMANENT AIR-TIGHT SEAL. SEAL LARGE OPENINGS WITH NON-SHRINK MORTAR, GROUTS OR EXPANDING FOAM MATERIALS AND SMALLER GAPS WITH ELASTOMERIC JOINTS SEALANT. AS DEFINED ASTM C920-A7.
- VENT PIPES SHALL BE INSTALLED SO THAT ANY RAINWATER OR CONDENSATION DRAINS DOWNWARD INTO THE GROUND BENEATH THE SLAB OR SOIL - GAS - RETARDER MEMBRANE.
- EXHAUST CLEARANCES MUST CONFORM TO THE CURRENT NATIONAL STANDARD PLUMBING CODE, FOR EXHAUST TERMINATION LIMITATION AND REQUIREMENTS.

PRINTS ISSUED 11/01/2023 - CITY SUBMITTAL

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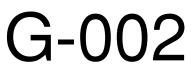
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SHEET TITLE

GENERAL INFORMATION

PROJECT NUMBER: 23098



ENVIRONMENTAL GENERAL NOTES

1. NOTE REMOVED.

- 2. CONTRACTOR IS RESPONSIBLE FOR PROPER NOTIFICATION AS MAY BE REQUIRED FOR LOCAL, STATE, OR FEDERAL ABATEMENT PROCEDURES AND PAYMENT OF ALL FEES TO THE REQUIRED JURISDICTION.
- 3. CONTRACTOR SHALL PROPERLY NOTIFY AND INFORM ALL SUB-CONTRACTORS AND ALL WORKERS/EMPLOYEES EITHER ENTERING OR WORKING ON SITE OF THE PRESENCE OF ANY AND ALL HAZARDOUS MATERIALS IDENTIFIED.
- 4. CONTRACTOR SHALL COORDINATE ALL ABATEMENT PROCEDURES, NOTIFICATION AND WORK WITH OWNER RETAINED THIRD PARTY ENVIRONMENTAL ENGINEER/CONSULTANTS IN IDENTIFICATION, ABATEMENT AND REMEDIATION OF ANY HAZARDOUS MATERIAL
- 5. NOTE REMOVED.
- 6. NOTE REMOVED
- 7. NOTE REMOVED.
- 8. ALL HAZARDOUS MATERIALS SHALL BE SAMPLED BY A LICENSED ABATEMENT ENVIRONMENTAL ENGINEER/CONSULTANT AND REMOVED BY A LICENSED CONTRACTOR IN ACCORDANCE WITH APPLICABLE LOCAL, STATE AND FEDERAL LAWS AND **REGULATIONS. CONTRACTOR SHALL NOTIFY OWNER** AND ENVIRONMENTAL ENGINEER/CONSULTANT IMMEDIATELY UPON DISCOVERY OF ANY HAZARDOUS MATERIAL WHICH MAY BE CONCEALED AT TIME OF THE ORIGINAL PHASE I ENVIRONMENTAL REPORT AND MAY NOT HAVE BEEN PREVIOUSLY IDENTIFIED OR LOCATED.
- 9. NOTE REMOVED.
- 10. PLEASE REFERENCE THE PROJECT SPECIFICATIONS FOR THE PHASE I ENVIRONMENTAL SUMMARY REPORT. A COMPLETE COPY OF THE PHASE I REPORT AND FINDINGS IS AVAILABLE UPON REQUEST FROM THE OWNER, CONTRACTOR AND/OR ARCHITECT

ELEVATION GENERAL NOTES

- 1. ALL EXTERIOR SURFACES TO BE FINISHED UNO, INCLUDING BUT NOT LIMITED TO, TRIM, SIDING, GRILLS, VENTS, STACKS, ETC.
- 2. CAULK ALL JOINTS AND SEAMS BETWEEN DISSIMILAR MATERIALS FOR WEATHERTIGHT, WATERTIGHT, AIRTIGHT PERFORMANCE 3. ALL FACADE MATERIAL TO WRAP BACK TO INSIDE BUILDING
- CORNER, UNO.
- 4. ALL SURFACE RUNS GREATER THAN 25'-0" & INTERIOR CORNERS TO RECEIVE CONTROL JOINT, COORDINATE LOCATION WITH ARCH.

REFLECTED CEILING PLAN GENERAL NOTES

- 1. SEE ID & MEP SETS FOR LOCATIONS OF ALL LIGHT FIXTURES AND MECHANICAL DIFFUSERS.
- 2. COORDINATE ANY DISCREPANCIES WITH MEP AND ARCHITECT PRIOR TO INSTALLATION.
- 3. REFERENCE ALL INTERIORS DRAWINGS FOR
- COORDINATION
- 4. ALL CEILINGS TO CONFORM TO 2018 IBC TABLE 803.9
- 5. ALL ACT TILES TO BE WHOLE DIMENSIONS AND ARE NOT TO BE FIELD CUT, ALL ACT TO BE FIELD CENTERED IN SPACE, U.N.O. OR DIMENSIONED
- 6. SEE ENLARGED UNIT PLANS (A-400 SERIES) FOR ALL UNIT RCP PLANS EXCEPT WHERE HEIGHTS ARE LISTED ON RCP PLANS IN A-100 SERIES.
- 7. DROPPED CEILINGS AT BATHROOMS ARE TO BE LOCATED AT 8'-0" ABOVE FINISHED FLOOR UNLESS OTHERWISE INDICATED ON THE PLAN.
- 8. ALL EXPOSED EQUIPMENT (IE SPRINKLER HEADS) TO BE ALIGNED AND CENTERED IN GEOMETRY AND PLACED INCONSPICUOUSLY. SPRINKLERS IN COMMON AREAS TO BE RECESSED.
- 9. NOTE REMOVED.
- 10. NOTE REMOVED.
- 11. NOTE REMOVED.
- 12. WHERE CEILING HEIGHT IS B.O. FLOOR ASSEMBLY, FINISH TO BE LEVEL FOUR FINISH. ALL UNITS TO HAVE A LEVEL FOUR FINISH AT CEILINGS.
- 13. ALL MECH DUCTS WHICH FEED TO PLENUM SPACE VIA MECH SHAFTS SHALL BE ENCLOSED ON THE BOTTOM ACCORDING TO PROGRESSIVE ENGINEERING REPORT AER-09-038.
- 14. ACCESS TO EQUIPMENT SHALL BE THROUGH ACT WHERE AVAILABLE. WHERE NECESSARY, ACCESS THROUGH GWB CEILING TO USE ACCESS HATCHES. GC TO PROVIDE HATCHES AND HATCH LOCATION DIAGRAM PRIOR TO INSTALL.
- 15. ALL DIMENSIONS FOR CEILING TYPE C5 AND C1 ARE TO FINISHED FACE. ALL DIMENSIONS TO WALLS ARE TO F.O. STUD.
- 16. ALL DROPPED SOFFIT FRAMING IN COMMON AREAS SHALL BE OUT OF METAL STUDS. ONE (1) HOUR RATED CEILING THROUGHOUT BUILDING AT UNDERSIDE OF ROOF TRUSSES AND ARE PART OF THE FIRE RATED FLOOR-CEILING ASSEMBLY
- 17. ALL GYPSUM BOARD CEILINGS TO BE PAINTED PA-1 (U.O.N.).
- 18. MISCELLANEOUS SYMBOLS INDICATED ON REFLECTED CEILING PLAN ARE MECHANICAL IN NATURE. REFER TO MEP DRAWING SHEETS FOR FURTHER CLARIFICATION FOR ITEM IDENTIFICATION AND LOCATIONS.

PLAN GENERAL NOTES

- 01 GENERAL
- A. ALL NEW WORK TO MEET ALL APPLICABLE BUILDING, PLUMBING, MECHANICAL, ELECTRICAL, HANDICAP, AND LIFE SAFETY CODES AND REQUIREMENTS.
- OTHERWISE C. DO NOT SCALE DRAWINGS.
- D. NOTIFY ARCHITECT OF ANY DISCREPANCIES BETWEEN PROJECT DOCUMENTS AND EXISTING CONDITIONS. ANY MODIFICATIONS DUE TO DIMENSIONAL CHANGES SHOULD BE PART OF THE PROJECT COST.
- E. GENERAL CONTRACTOR AND ALL SUBCONTRACTORS SHALL THOROUGHLY FAMILIARIZE THEMSELVES TO ALL SITE SPECIFIC REQUIREMENTS AND EXTENTS OF THE NEW WORK PRIOR TO BIDDING. NO CHANGES IN THE CONTRACT WILL BE CONSIDERED FOR INFORMATION DISCERNABLE FROM THE EXISTING CONDITIONS OR THE PROJECT DOCUMENTS.
- F. CONTRACTORS SHALL BE FAMILIAR AND INCORPORATE ALL PROVISIONS AND REQUIREMENTS ESTABLISHED BY CODES APPLICABLE TO THE PROJECT INCLUDING FAIR HOUSING, UFAS, ANSI. & ADAAG
- G. REPORT ALL EXISTING CONDITIONS THAT ARE DAMAGED OR MARRED TO THE ARCHITECT PRIOR TO COMMENCEMENT OF THE NEW WORK
- H. TYPICAL TOP OF FIRST FLOOR SUBFLOOR ELEVATION IS REFERENCED AS 100'-0". CONTRACTOR SHALL VERIFY BUILDING FINISH FLOOR ELEVATION WITH ACTUAL CONDITIONS. COORDINATE ACTUAL GRADE WITH CIVIL DRAWINGS.
- I. FULLY ACCESSIBLE UNITS SHALL MEET THE REQUIREMENTS OF 2009 ICC/ANSI A117.1 - TYPE 'A' DWELLING UNITS AND 2010 ADAAG (DOJ). ALL OTHER DWELLING UNITS TO BE TYPE 'B'.
- J. MAIN LEVEL ELEVATION IS T.O. GYPCRETE, OR T.O. CONCRETE SLAB, RESPECTIVELY. K. LEVELS ABOVE MAIN LEVEL ARE MEASURED TO T.O. SUBFLOOR
- WHOLE BUILDING TO MEET FAIR HOUSING ACT. M. ALL PENETRATIONS INTO FIRE-RATED ASSEMBLIES ARE TO BE FIRESTOPPED WITH UL APPROVED FIRESTOPPING ASSEMBLIES. UL INFORMATION SHALL BE PROVIDED BY TRADE RESPONSIBLE FOR PENETRATION. REFERENCE THE G200 SERIES.
- N. THROUGH PENETRATIONS NOT LOCATED WITHIN WALL CAVITY OR FLOOR/CEILING/ROOF ASSEMBLY SHALL BE REQUIRED TO
- OR EXCEEDING THE ASSEMBLY THAT IS PENETRATED. O. CONTROL JOINTS IN GWB AT ALL UNIT CORRIDORS SHALL BE LOCATED AT INSIDE CORNER OF PILASTERS AND ACROSS TOP OF DROP SOFFIT AT PILASTERS. AT LOCATIONS WHICH THERE IS A 30' SPAN BETWEEN PILASTERS, A CONTROL JOINT SHALL OCCUR AT THE CENTRAL LOCATION BETWEEN THE TWO PILASTERS ADJACENT TO THE NEAREST DOOR, RUNNING FROM HEAD TO T.O. PARTITION AT CORNER. AT LOCATIONS WHICH THERE IS A 30' SPAN BETWEEN SOFFIT WHERE PILASTER OCCURS, A CONTROL JOINT SHALL OCCUR AT THE INSIDE CORNER OF PILASTER AND SOFFITS. CONTROL JOINTS SHALL OCCUR AT THE CORNERS OF ALL STOREFRONT, RUNNING TO THE T.O. THE PARTITION. GC TO VERIFY WITH ARCHITECT DURING CONSTRUCTION ALL CONTROL JOINT LOCATIONS PRIOR TO INSTALL
- P. PROVIDE FIREBLOCKING AND DRAFTSTOPPING AS REQUIRED AND IN ACCORDANCE WITH 2018 IBC, SECTION 717.0. Q. CONTRACTOR TO PROVIDE FIRE BLOCKING AT FIRE SEPARATION PARTITION AT 10' ON CENTER VERTICALLY, TYPICAL
- PARTITION AT ALL BACK-TO-BACK ELECTRICAL OUTLETS. R. ALL INTERIOR WALLS ARE TYPE P1, UNLESS NOTED OTHERWISE ALL EXTERIOR WALLS ARE TYPE P30, UNLESS NOTED OTHERWISE. SEE SHEET G-101 FOR PARTITION SCHEDULE
- S. ALL EXTERIOR MATERIALS TO BE APPLIED PER MANUFACTURER RECOMMENDATIONS AND WITH ASSOCIATED PRODUCTS (SUCH AS STAPLES, NAILS, TAPER, SEALANT).

03 - CONCRETE

- A. CONCRETE SEALANT TO BE USED ON FIRST FLOOR WHERE RECEIVING RESILIENT VINYL FLOORING. B. AT SLAB ON GRADE UNITS, LEVEL CONCRETE SURFACE AT AREAS WHERE VCT FLOORING TO BE INSTALLED.
- 04 MASONRY A. ALL EXTERIOR BRICK TO HAVE WEEP HOLES AT MAX 2' ABOVE GRADE
- B. ALL EXTERIOR BRICK TO EXTEND BELOW GRADE BY 3 COURSES (8") MIN. AND HAVE A BRICK LEDGE. C. ALL LOCATIONS WITH EXTERIOR BRICK TO BE GROUTED SOLID
- FROM BELOW GRADE CONDITION TO LOWEST WEEP HOLE.
- 05 METALS
- PAINTED STEEL
- B. ALL DOWNSPOUTS TO BE CONNECTED TO UNDERDRAINS, SLOPED AWAY FROM BUILDING. C. ALL EXTERIOR METAL TO BE PRE-FINISHED OR PRIMED/PAINTED.
- COLOR PER ARCH.
- 06 WOOD, PLASTICS AND COMPOSITES A. ALL COMMON SPACE, UNIT TOILET ROOMS, AND BATHROOMS TO HAVE BLOCKING FOR GRAB BARS. SEE G301 FOR HEIGHTS AND LOCATIONS. GRAB BARS TO BE INSTALLED IN ALL COMMON SPACE. UNIT TOILET ROOMS, AND BATHROOMS. BLOCKING TO BE PROVIDED FOR ALL SHOWER GRAB BARS AND SEATING AS REQUIRED BY MANUFACTURER.
- B. CONTRACTOR TO COORDINATE BLOCKING AT ALL ADJACENT POCKET DOORS, MEDICINE CABINETS, AND OTHER ELEMENTS. C. AT ALL IDF. MDF & ELEC ROOMS; INTERIOR FINISH TO BE FIRE-
- TREATED PLYWOOD PAINTED WHITE ON ALL WALLS D. ALL SHEAR WALL LOCATIONS & EXTENT OF SHEATHING TO BE
- COORDINATE WITH STRUCTURAL DRAWINGS. E. ALL EXPOSED CABINET ENDS TO HAVE FINISHED PANELS, INCLUDING BUT NOT LIMITED TO END OF CABINET RUN, ADJACENT TO REFRIGERATOR, LOCATIONS OF VERTICAL

OFFSETS.

- 07 THERMAL AND MOISTURE PROTECTION A. CAULK ALL JOINTS BETWEEN DISSIMILAR MATERIALS FOR WEATHER TIGHT, WATERTIGHT, AIRTIGHT, ETC. PERFORMANCE.
- B. ALL EXTERIOR WRB TO BE APPLIED, TAPERED AND SEALED PER
- INSTRUCTIONS C. PROVIDE SOUND ATTENUATION INSULATION OVER ALL BATHROOM CEILINGS AND IN BATHROOM WALLS, TYPICAL ALL
- BATHROOMS D. AT EXTERIOR WALLS, CAULK CONTROL JOINTS IN FLOOR SLAB 12" INTO BUILDING TO PREVENT AGAINST WATER INFILTRATION.
- 08 OPENINGS A. DOORS- ELECTRICIAN IS REQUIRED TO COORDINATE WITH DOOR HARDWARE SCHEDULE FOR ALL ELECTRICAL ROUGH IN REQUIREMENTS FOR DOORS, INCLUDING AUTO OPERATORS, MAG HOLD OPENS, ELECTRONIC STRIKES, KEYPADS AND MAG
- LOCKS. B. ALL DOOR HARDWARE SHALL BE COORDINATED W/ OWNER BY DESIGN BUILD CONTRACTOR
- 09 FINISHES
- A. NOTE REMOVED B. PROVIDE 1/2" RESILIENT CHANNEL ON (1) SIDE OF EACH UNIT DEMISING WALL. EACH UNIT TO RECIEVE MIN. 1 CHANNEL ON INTERIOR FACE OF DEMISING WALL. C. PROVIDE 1/2" RESILIENT CHANNEL ON CORRIDOR SIDE OF
- CORRIDOR WALL. D. PRIME, PAINT AND SEAL ALL WALLS, COLUMNS AND CEILINGS AS REQUIRED PRIOR TO INSTALLATION OF
- M/E/P/F/TELEPHONE/SECURITY INSTALLATION. E. CONTRACTOR TO COORDINATE ALL WET WALLS WITH ADJACENT RATINGS AND TO ACCOMMODATE PLUMBING FIXTURES. WALLS TO BE ALIGNED.
- F. ALL WALLS TO BE ALIGNED AS INDICATED ON DRAWINGS IF WALL IS MISALIGNED MID-WALL AND WILL AFFECT VISUAL APPEARANCE IN ROOM (I.E. 'JOG' WILL APPEAR) GC TO BRING TO ARCH ATTENTION PRIOR TO FINISHING G. FLOOR TRANSITION SHALL OCCUR AT MIDDLE OF WALL WHERE
- OCCURS IN DOORWAY. PROVIDE VINYL REDUCER STRIP.

- B. ALL WALL DIMENSIONS ARE TO FACE OF STUD, UNLESS NOTED

- HAVE FIRE RESISTIVE PENETRATION WITH A T-RATING EQUAL TO
- CONTRACTOR TO PROVIDE FIRE BLOCKING AT FIRE SEPARATION
- A. STAIR HANDRAILS, TREADS, STRINGERS TO BE PRE-FINISHED OR

- 10 SPECIALTIES
- A. NOTE REMOVED.
- B. NOTE REMVOED. C. NOTE REMOVED.
- D. NOTE REMOVED.
- E. CORNER GUARDS AT COMMON SPACES, PER INTERIORS F. NOTE REMOVED.
- G. TOILET PAPER DISPENSER TO BE INSTALLED PER A4/G-301 AND 2009 ICC ANSI 117.1
- H. SEE G300 FOR SIGNAGE REQUIREMENTS. NUMBERING OF UNITS AND ROOMS SHALL BE UPDATED TO MEET AHJ AND OWNER REQUIREMENTS PRIOR TO SIGNAGE PRODUCTION.
- 21 FIRE SUPPRESSION
- A. ALL UNITS TO HAVE APPROPRIATE NUMBER OF SMOKE DETECTORS INSTALLED.
- B. FIRE EXTINGUISHERS SHALL BE LOCATED SO THAT THE MAXIMUM TRAVEL DISTANCE SHALL NOT EXCEED 75 FEET. GENERAL CONTRACTOR TO PROVIDE SEMI-RECESSED TYPE THROUGHOUT WITH RATED CABINET. PROVIDE (1) TYPE "CLASS K" WITHIN 30 FEET OF COMMERCIAL COOKING EQUIPMENT. PROVIDE RESIDENTIAL TYPE ANSUL SYSTEM AT ALL RESIDENTIAL RANGES AS REQUIRED BY FIRE DEPARTMENT HEIGHT TO MEET ANSI.
- C. CONCEALED SPRINKLER HEADS TO BE USED U.N.O. D. NOTE REMOVED. DRY SPRINKLERS TO BE COORDINATED WITH DESIGN-BUILD CONTRACTOR. ALL SPRINKLERS IN BUILDING CAN BE WET. SPRINKLER LOCATIONS AND SPRINKLER EQUIP TO BE
- COORDINATED W/ ARCH PRIOR TO INSTALL GC TO PROVIDE LOCATIONS OF HEADS ON RCPS FOR ARCH REVIEW PRIOR TO INSTALL. GC TO COORD FIRE SPRINKLER LINER W/ ALL MEP IN CORRIDOR SPACE TO MAINTAIN CEILING TYPE & HT. PER ARCH DWGS
- 22 PLUMBING A. PLUMBING VENT STACKS, FLUES, FRESH AIR INTAKES, ETC. NOT SHOWN FOR CLARITY. SEE MEP DRAWINGS FOR HVAC/ELECTRICAL/PLUMBING
- REQUIREMENTS/EQUIPMENT/LOCATIONS. GC TO VERIFY LOCATIONS OF ALL SIDEWALL VENTS PRIOR TO INSTALL. B. PROVIDE FLOOR DRAINS AS INDICATED ON PLUMBING DRAWINGS
- AND PER APPLICABLE PLUMBING CODE C. DRAINAGE SHALL BE PER 2018 IBC 3201.4 - DRAINAGE WATER COLLECTED FROM A ROOF, AWNING, CANOPY OR MARQUEE AND CONDENSATE FROM MECHANICAL EQUIPMENT SHALL NOT FLOW OVER A PUBLIC WALKING SURFACE
- D. CONTRACTOR TO COORDINATE MECHANICAL DUCT, SPRINKLER, PLUMBING, AND ELECTRICAL SUCH THAT CEILING HEIGHTS AND LOCATIONS ARE MAINTAINED PER REFLECTED CEILING PLANS. E. ALL DOWNSPOUTS INTO COURTYARDS AND AT HARDSCAPE TO BE
- HARDPIPED TO STORM SEWER. GUTTERS/DOWNSPOUTS SHALL NOT FLOW OVER SIDEWALKS OR OTHER HARDSCAPE.
- 23 HVAC A. GC TO COORDINATE MECHANICAL PADS FOR ROOFTOP AND GROUND MOUNTED UNITS.
- 26 ELECTRICAL
- A. SEE ELECTRICAL PLANS FOR ELECTRIC DEVICE LAYOUTS. B. SEE C1/G300 FOR ELECTRICAL MOUNTING HEIGHT REQUIREMENTS.
- C. PROVIDE EXIT SIGNS AT LOCATIONS AND PER 1011.3, IBC. A TACTILE SIGN STATING 'EXIT' AND COMPLYING WITH ICC A117.1 SHALL BE PROVIDED ADJACENT TO EACH DOOR TO AN AREA OF REFUGE, AN EXTERIOR AREA FOR ASSISTED RESCUE, AN EXIT STAIRWAY, AN EXIT RAMP, AN EXIT PASSAGEWAY AND THE EXIT DISCHARGE
- D. PROVIDE DIMMER CAPABILITY FOR ALL COMMON AREA DECORATIVE AND DOWNLIGHTS/SPOTS (CAN LIGHTS).
- E. TIMECLOCK AND PHOTOCELL FOR EXTERIOR LIGHTS. MULTIPLE ZONES MAY BE NECESSARY. INSTALL PER MANUFACTURERS RECOMMENDATIONS.
- F. ALL ELECTRICAL AND IDF/MDF ROOMS TO HAVE SOLID BLOCKING TO ACCOMMODATE PANEL ATTACHMENT, BLOCKING TO BE PAINTED TO MATCH WALLS. WALLS TO REMAIN RATED AS INDICATED PER PLAN.
- G. FIRE PULL STATIONS TO BE PROVIDED PER 2009 IFC AND A.H.J. H. ALL LIGHTING, T-STATS AND OTHER SWITCHES TO BE INSTALLED PER ANSI 117.1, 2010 ADAAG, AND THE FAIR HOUSING ACT. LOCATIONS AND GROUPINGS OF SWITCHES TO BE ACCEPTED BY ARCH PRIOR TO INSTALL.

ROOF PLAN GENERAL NOTES

- ALL NEW WORK TO MEET ALL APPLICABLE BUILDING, PLUMBING, MECHANICAL, HANDICAP, AND LIFE SAFETY CODES AND REQUIREMENTS.
- 2. THE MINIMUM NET FREE VENTILATING AREA SHALL BE 1/150 OF THE AREA OF THE SPACE VENTILATED. THE OPENINGS SHALL BE COVERED WITH CORROSION-RESISTANT MESH OR OTHER APPROVED MATERIALS WITH OPENINGS NOT MORE THAN 1/2" IN ANY DIRECTION.
- 3. WHERE RIDGE OR GABLE VENTS ARE UTILIZED, ADDITIONAL PROTECTION AGAINST SNOW INFILTRATION SHALL BE PROVIDED BY BALANCING THE AREA OF THE VENTS IN THE RIDGES AND THE EAVES SUCH THAT AT LEAST 1/2 OF THE VENTILATION AREA SHALL BE PROVIDED BY SOFFIT OR EAVE VENTS, WITH THE BALANCE OF THE VENTILATION OPENINGS PROVIDED BY THE GABLE OR RIDGE VENTS. REFERENCE IBC 2018 SECTION 1203.
- 4. ALL FLOOR JOIST BEARING HEIGHTS ARE 9'-1 1/8". ALL ROOF TRUSS BEARING HEIGHTS ARE 9'-1 1/8". REFERENCE WALL SECTIONS ON A300 SHEETS.
- 5. 1'-0" ROOF SOFFIT, UNLESS NOTED OTHERWISE, REF: ROOF PLAN.
- 6. CONTRACTOR TO INSTALL GUTTERS, DOWNSPOUTS AND ALL FLASHING PER APPLICABLE SMACNA GUIDELINES. IF ADDITIONAL DOWNSPOUTS ARE REQUIRED, CONTRACTOR SHALL CONFIRM LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION.
- MEMBRANE ROOFING SYSTEM ON RIGID INSULATION, ALL ROOF LOCATIONS TYP. U.O.N.
- 8. COLORS T.B.D., COORDINATE WITH ARCHITECT.
- 9. FLAT ROOFS TO BE TPO MEMBRANE; INSTALL PER MANUFACTURERS INSTRUCTIONS; PROVIDE 1/4" SLOPE FOR FLAT ROOFS. PROVIDE 1/2" SLOPE FOR ALL CRICKETS.
- 10. RE: PLUMBING FOR PRIMARY AND OVERFLOW ROOF DRAIN LOCATIONS.
- 11. ALL DOWNSPOUTS ARE TO BE PIPED TO THE UNDERGROUND, RE: CIVIL.
- 12. PROVIDE EXTRA LAYER OF MEMBRANE WALKWAY PATH FOR ALL MECHANICAL EQUIPMENT AT FLAT ROOF LOCATIONS FROM ROOF ACCESS.
- 13. PROVIDE 4'X4' ROOF ACCESS HATCH TO FLAT ROOF.

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SHEET TITLE

PLAN GENERAL NOTES

PROJECT NUMBER: 23098



DOORS

STEP 1

STEP 3B WHEN USING MASONRY, ADHESIVES CONTAINING CLADDING FASTENERS.

OPENING.

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<u>STEP 7</u>

WEATHER-RESISTIVE BARRIER INSTALLATION GUIDELINES

<u>STEP 8</u>

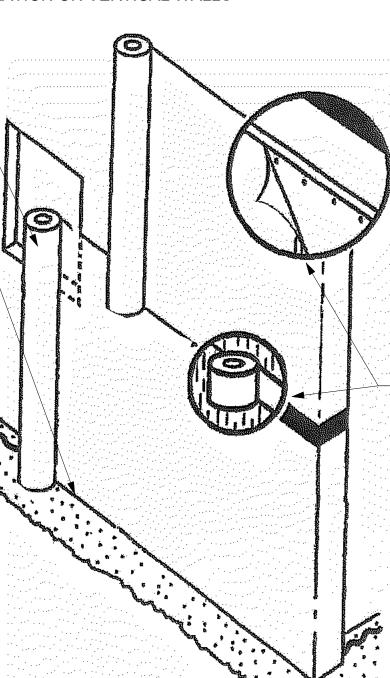
WEATHER-RESISTIVE BARRIER INSTALLATION ON VERTICAL WALLS PRIOR TO INSTALLATION OF WINDOWS OR

UNWRAP ROLL AT CORNER, LEAVE 6" TO 12" OVERLAP - PRINTED STUD MARKS TO LINE UP WITH FIRST STUD.

<u>STEP 2</u> ROLL SHOULD BE PLUMB - EXTEND BOTTOM ROLL EDGE OVER SILL PLATE INTERFACE AT LEAST 2" TO 3".

<u>STEP 3A</u> WEATHER-RESISTIVE BARRIER TO BE SECURED ON VERTICAL STUD LINE EVERY 12" TO 18". WHEN USING WOOD, INSULATED SHEATHING BOARD, OR EXTERIOR GYPSUM BOARD; LARGE HEAD OR PLASTIC WEATHER HEAD NAIL USE IS BEST PRACTICE. ALSO, 1" MIN. CROWN WIDE STAPLES MAY BE USED.

TEMPORARILY ATTACH BARRIER WITH POLYURETHANE, ELASTOMERIC, OR LATEX BASE IN VERTICAL STRIPS -SPACE APPROXIMATELY 24" APART (CONSULT BUILDING WRAP MANUFACTURER FOR LIST OF SUGGESTED ADHESIVES). AS A PERMANENT ATTACHMENT, USE

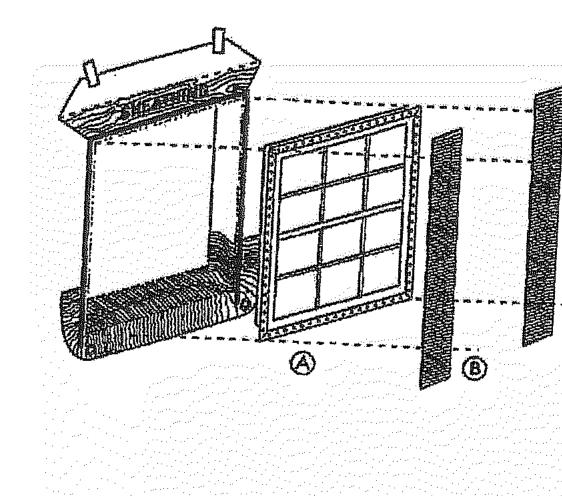


STEP 4 DIRECTLY UNROLL BARRIER OVER WINDOWS AND DOORS - UPPER ROLL TO OVERLAP BOTTOM ROLL 6" HORIZONTALLY.

<u>STEP 5</u> UPPER OF UPPER AND LOWER PLATES TO BE COVERED BY BARRIER -TAPE ALL HORIZONTAL SEAMS AT BAND JOISTS, HEADERS AND ROLL OVERLAPS USING 2" OR 3" MANUFACTURER APPROVED TAPE. ALL ACCIDENTAL TEARS, DAMAGE OR PENETRATIONS TO BE TAPED.

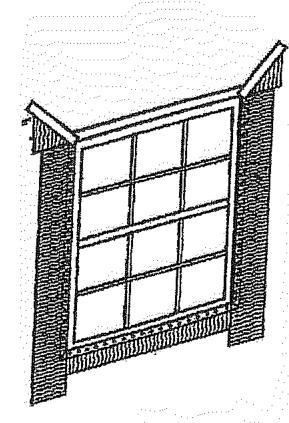
<u>STEP 10</u>

A. INSTALL WINDOW/DOOR PER MANUFACTURER'S INSTRUCTIONS. (IMAGE A) ALONG SIDES OF WINDOW FRAME. (IMAGE B)



STEP 11

A. FLIP DOWN WEATHER-RESISTIVE BARRIER UPPER FLAP SO THAT IT LAYS FLAT ACROSS HEAD FLASHING. B. TAPE ALONG ALL CUTS IN WEATHER-RESISTIVE BARRIER AND ACROSS WINDOW HEAD WITH APPROVED TAPE PER MANUFACTURER'S **RECOMMENDATIONS.**



FLASHING SYSTEM INSTALLATION AT WINDOWS/DOORS UPON COMPLETION OF WEATHER-RESISTIVE BARRIER INSTALLATION

GENERAL INSTRUCTIONS

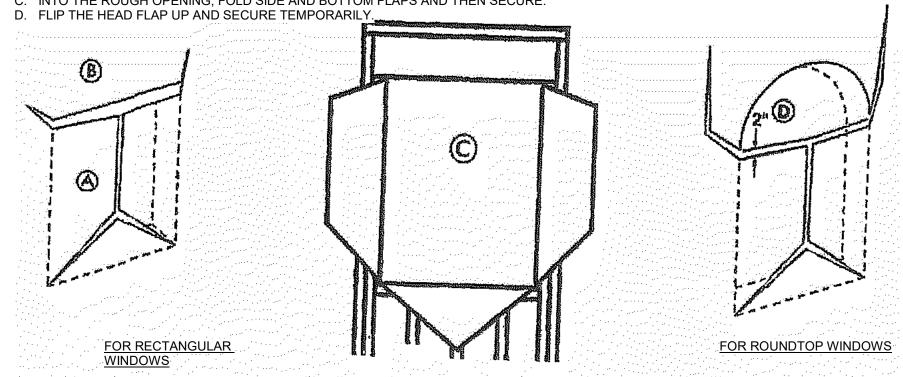
USE AND INSTALL APPROVED FLASHING PER WEATHER-RESISTIVE BARRIER

MANUFACTURER'S RECOMMENDATIONS. • INSTALL FLASHING ON CLEAN, DRY SURFACES. SURFACES TO BE WIPED TO REMOVE MOISTURE, DIRT, GREASE AND OTHER DEBRIS WHICH MAY INTERFERE WITH ADHESION. • PRESSURE TO BE APPLIED ALONG ENTIRE SURFACE TO ACHIEVE A GOOD BOND. • SMOOTH/REPOSITION SURFACE AS NECESSARY TO ELIMINATE ALL WRINKLES AND BUBBLES.

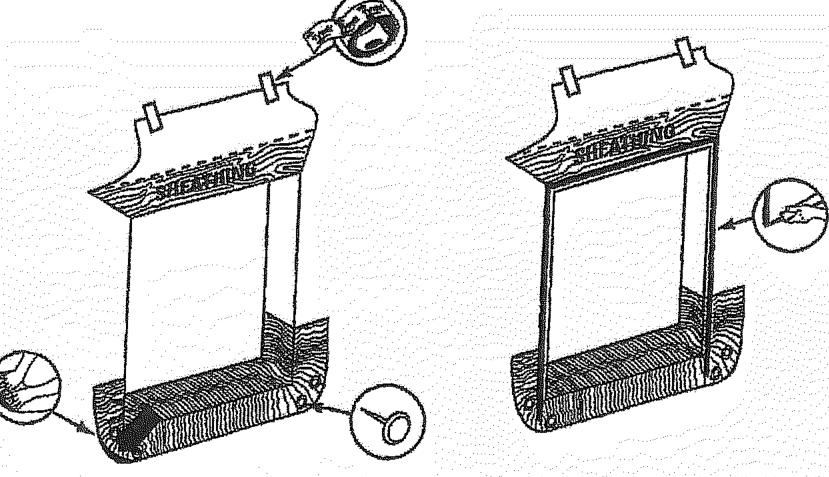
<u>STEP 6</u> PREPARE WEATHER-RESISTIVE BARRIER FOR WINDOW OR DOOR INSTALLATION:

A. MAKE A MODIFIED 'I-CUT' IN THE BARRIER, BEGINNING WITH A HORIZONTAL CUT ACROSS THE TOP OF THE WINDOW FRAME. (FOR ROUNDTOP WINDOWS, BEGIN THE CUT 2" ABOVE THE MULL JOINT; SEE D). CUT STRAIGHT DOWN FROM THE CENTER APPROXIMATELY 2/3 OF THE WAY, THEN ANGLE THE CUT TO THE CORNERS (SEE A). B. TO EXPOSE SHEATHING, OR FRAMING MEMBERS, AND TO ALLOW FOR HEAD FLASHING INSTALLATION, CUT A FLAP ABOVE THE ROUGH

C. INTO THE ROUGH OPENING, FOLD SIDE AND BOTTOM FLAPS AND THEN SECURE.



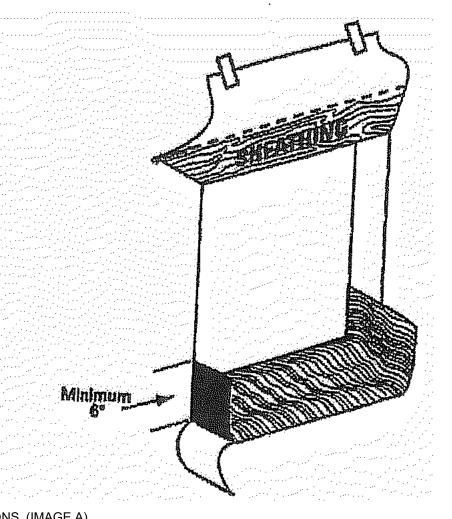
A. CUT FLEXIBLE FLASHING AT LEAST 12" LONGER THAN SILL ROUGH OPENING WIDTH. B. REMOVE FIRST PIECE OF RELEASE PAPER, COVER HORIZONTAL SILL BY ALIGNING INSIDE EDGE OF SILL, AND SECURE IN ROUGH OPENING ACROSS SILL AND TURN UP JAMBS - MINIMUM 6". COVER HORIZONTAL SILL BY ALIGNING FLEXIBLE FLASHING EDGE WITH SILL INSIDE EDGE. C. REMOVE SECOND PIECE OF RELEASE PAPER.



<u>STEP 9</u>

A. FAN FLEXIBLE FLASHING ONTO WALL FACE AT BOTTOM CORNERS. B. PRESS SILL FLASHING FIRMLY TO ENSURE FULL ADHESION. C. FANNED EDGES TO BE SECURED WITH MECHANICAL FASTENERS.

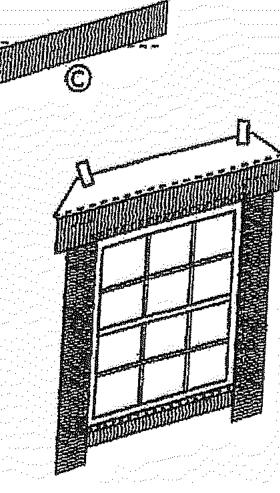
A. AT WALL OR BACK SIDE OF WINDOW MOUNTING FLANGE, APPLY A CONTINUOUS BEAD OF CAULK ACROSS JAMBS AND HEAD - BOTTOM SILL FLANGE TO REMAIN UNCAULKED. B. CAULK NOT TO BE APPLIED TO BOTTOM SILL FLANGE.



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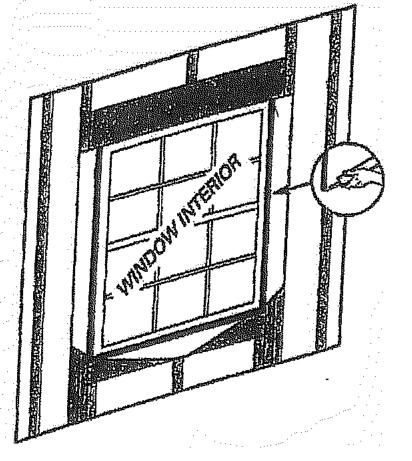
STEP 12

B. CUT TWO PIECES OF FLASHING OR FLEXIBLE FLASHING FOR JAMB FLASHING TO EXTEND 1" ABOVE WINDOW HEAD FLANGE AND BELOW BOTTOM EDGE OF SILL FLASHING. REMOVE RELEASE PAPER AND TIGHTLY PRESS C. CUT A PIECE OF FLASHING OR FLEXIBLE FLASHING FOR HEAD FLASHING, TO EXTEND BEYOND OUTER EDGES OF JAMB FLASHING. REMOVE RELEASE PAPER AND INSTALL COMPLETELY COVERING MOUNTING FLANGE AND ADHERING TO EXPOSED SHEATHING OR FRAMING MEMBERS. (IMAGE C)





CAULK (BACKER ROD, AS NECESSARY) AT REAR OF WINDOW/DOOR FRAME TO SEAL INSIDE OF ROUGH OPENING ACROSS BOTTOM AND A MINIMUM 12" TURN UP AT SIDES TO FORM A BACK DAM. IN ORDER TO AIR SEAL AROUND WINDOW OPENING, COMPLETELY CAULK AROUND BACK EDGE OF WINDOW PERIMETER.

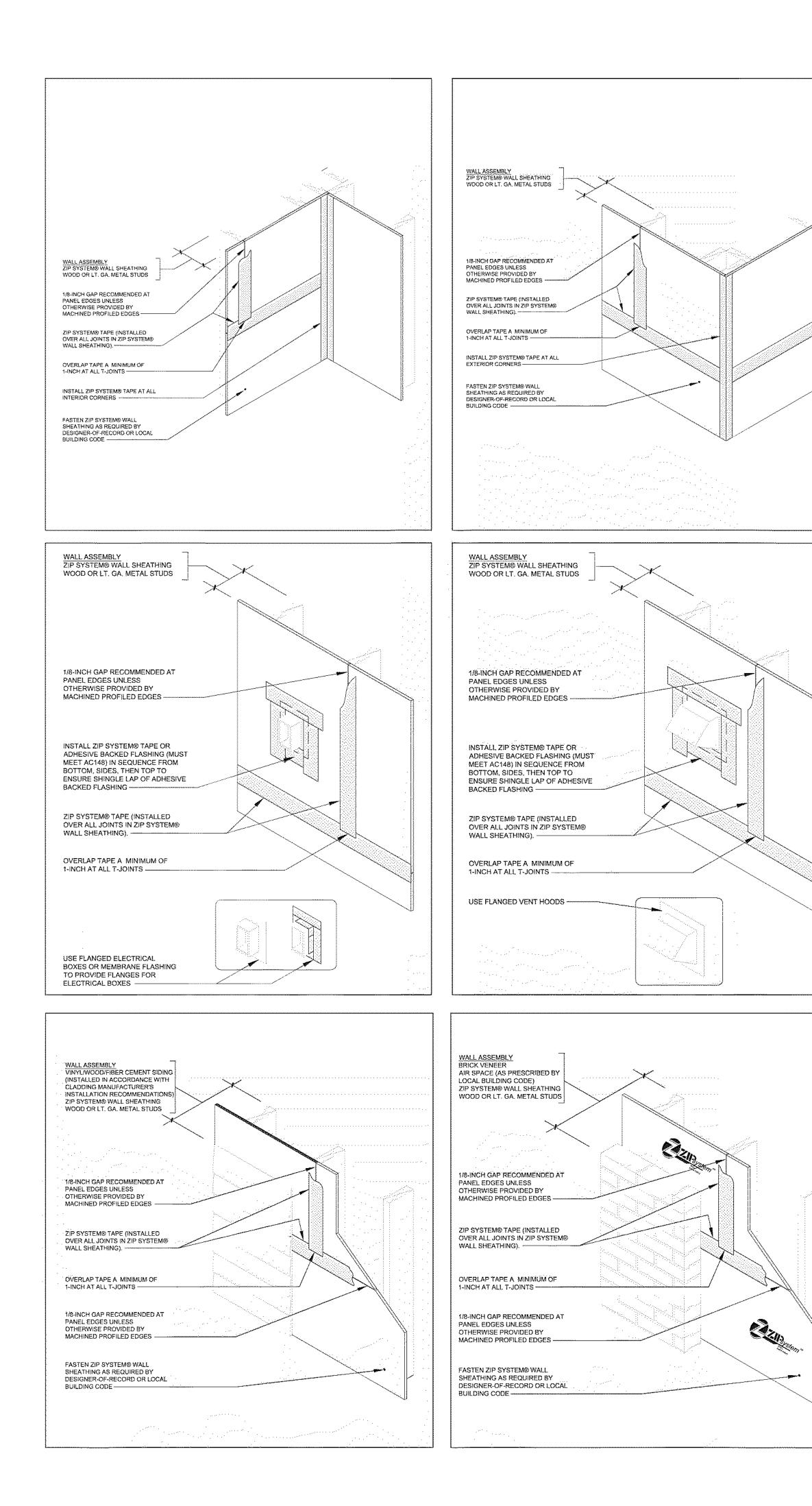


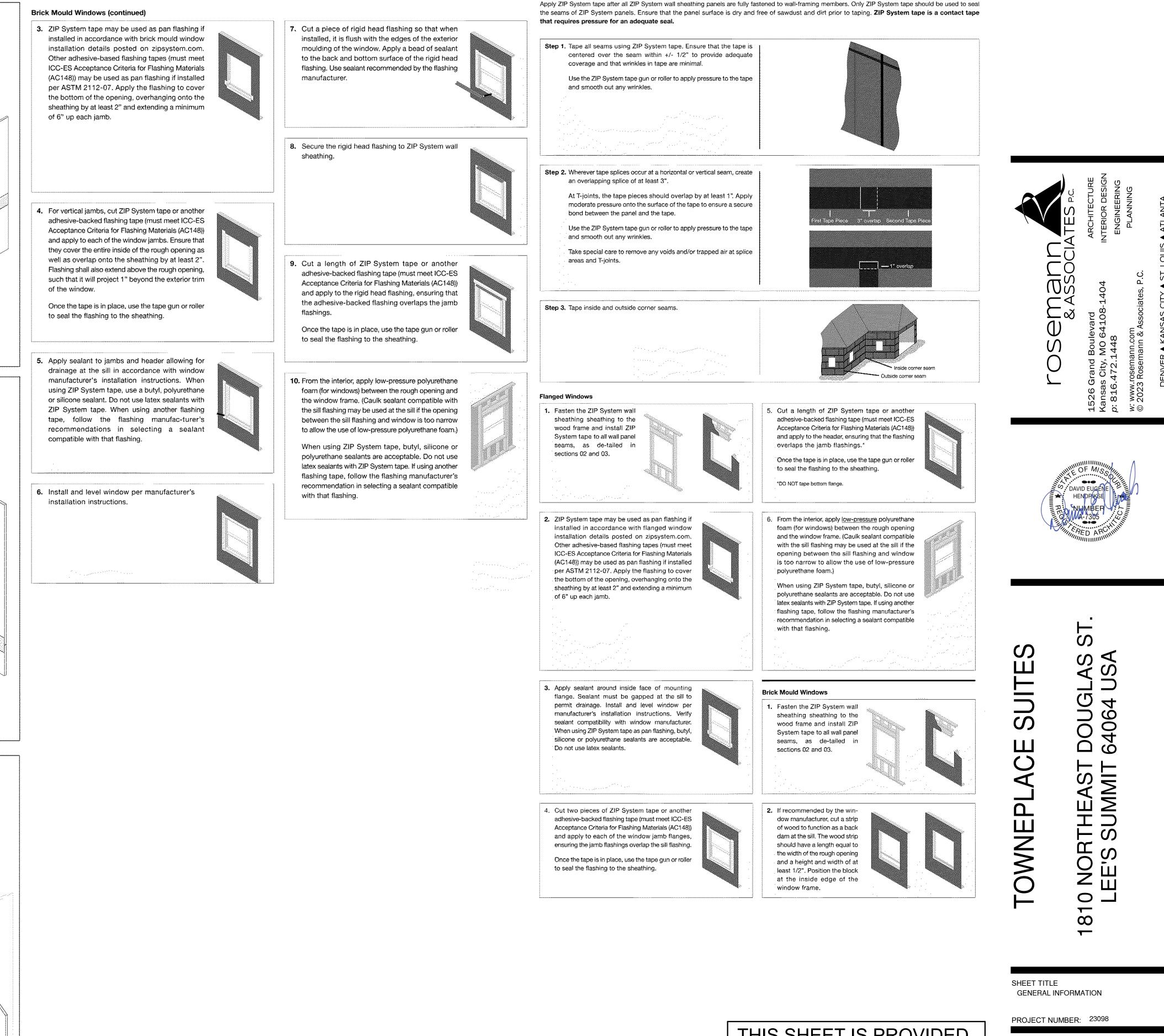
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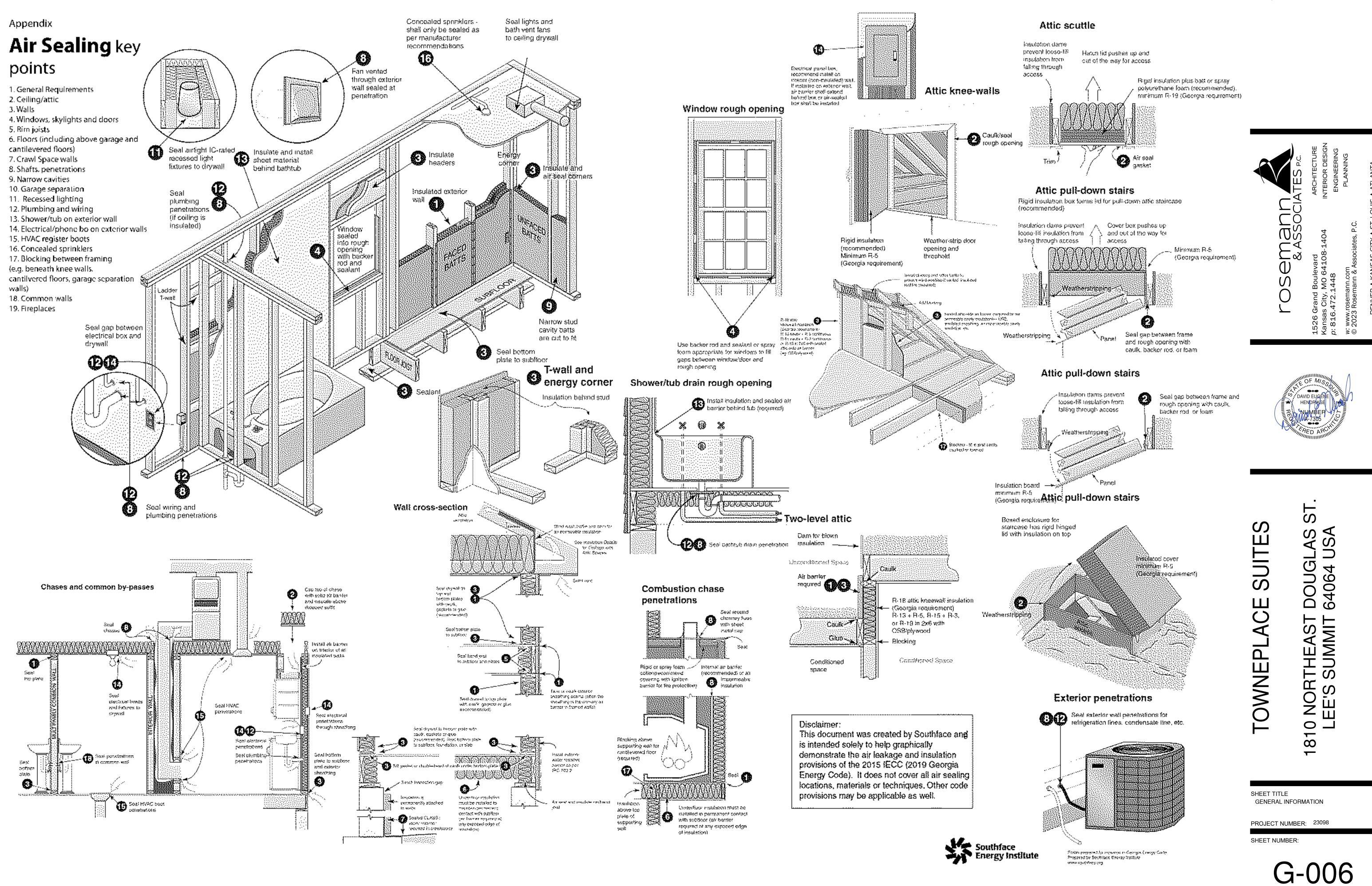


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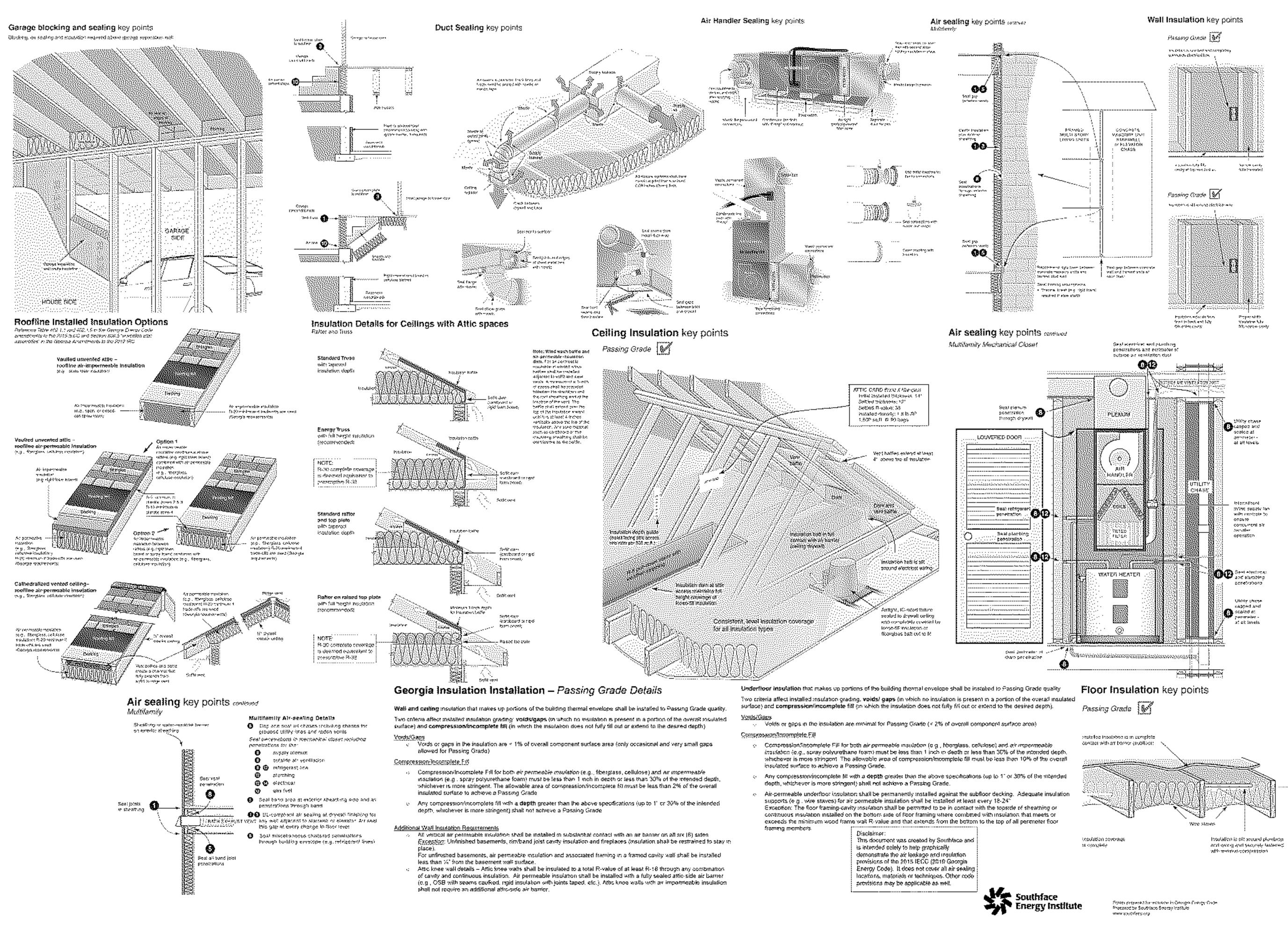
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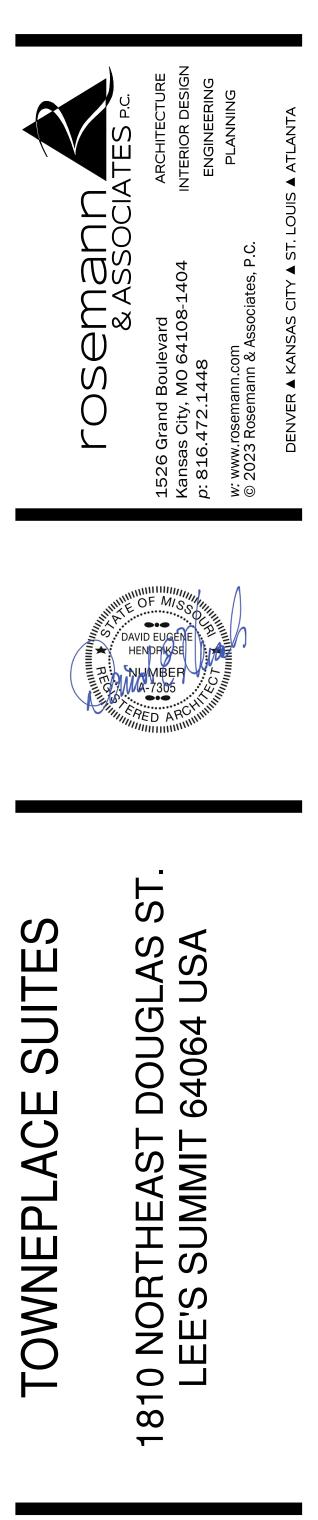
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GENERAL INFORMATION

PROJECT NUMBER: 23098



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A1	IRON AND IRONING BOARD STORAGE ACCESSORY TO BE LOCATED INSIDE CLOSET;	A82 A82	REFER TO INTERIOR SIGNAGE SPECIFICATIONS FOR SIGN INFO.		ACCORDANCE WITH DESIGN STANDARDS AND	E1	E1	GANG OUTLETS & SWITCHES AT THE LOCATION @ HEIGHT SHOWN. SEE TYPICAL GUESTROOM	E54 E54	DOUBLE SWITCH TO CONTROL RANGE HOOD/LIGHT AND FAN, RE: ELEC.
A2	REFER TO ENLARGED DETAIL FOR MORE INFO. LOCATE SHADE PULLS OPPOSITE SIDE OF PTAC	A84 A84	PROVIDE METAL EDGE TRIM TO PROVIDE REVEAL BETWEEN DIFFERENT WALL FINISHES, SEE GYPSUM BOARD ASSEMBLIES IN THE PUBLIC		LOCAL CODES. 6" THICK CONCRETE APRON WITH 10-10 W.W.F.	E2	E2	OUTLET HEIGHT IN G-300s. WALL OUTLETS SHALL NOT OCCUR IN SAME	E55 E55	DOUBLE SWITCH TO CONTROL UNDERCABII LIGHTS AND DISPOSAL, RE: ELEC.
A3	UNIT FALSE PANEL WITH ACCESS TO ELECTRICAL BEHIND	A85 A85	SPACE BPM.	C4	TRANSITION AT FLUSH CURB CONDITION.	E3	E3	WALL CAVITY OF ADJACENT GUESTROOMS, TYPICAL. 6X6 CEILING EXHAUST GRILLE. RE: MECH.	E56 E56 E57 E57	PROVIDE POWER/DATA OUTLET, RE: ELEC. PROVIDE POWER/USB OUTLET, RE: ELEC.
A4	HOLD 4" SPACE BETWEEN SIDE OF REFRIGERATOR AND WALL TO ALLOW DOOR TO	A86 A86	LOCATION. ELEVATOR CALL BUTTONS, RE: SPEC.	C5	PROVIDE MAXIMUM SLOPE OF 1:12 AND ENSURE CURB IS 6" HIGH OR LESS.	E4	E4	MASTER DEVICE OR LIGHT SWITCH WITH SIGNAGE TO CONTROL ALL HARDWIRED LIGHTS	E59 E59	POWER AND DATA RECEPTACLES LOCATED BELOW WITHIN CABINET, RE: ELEC. PROVID GROMMET IN COUNTERTOP FOR ACCESS.
	OPEN GREATER THAN 90 DEGREES FOR THE REMOVAL OF VEGETABLE DRAWER	A87 A87	PROVIDE BLOCKING AS REQUIRED FOR TOWNEMAP, COORDINATE TOWNEMAP SIZE AND	C8				IN GUESTROOM, WITH EXCEPTION OF BATHROOM. PROVIDE SEPARATE SWITCHES FOR	E60 E60	PROVIDE TELEPHONE JACK AT NIGHTSTANI CLOSEST TO ENTRY DOOR IN THE BEDROO
A5	PROVIDE HINGE STOP AT TOP HINGE AT BATHROOM DOORS; REFER TO SPEC FOR	A88 A88	STANDOFF LOCATIONS. REFER TO SPEC. & PRODUCT MANUAL FOR	C 9	NECESSARY. 29 PROVIDE EDGE/CURB RESTRAINT AT EDGE OF	_		UPPER CABINET, UNDER SHELF, UNDER CABINET AND DECORATIVE WALL SCONCES. INTERFACE THE MASTER DEVICE WITH THE GUESTROOM	E61 E61	1-BEDROOM SUITES, RE: ELEC. FOR STANDARD LINEAR LIGHT FIXTURE, SE
46	GUESTROOM DOOR HARDWARE. OVERALL KITCHEN CABINET LENGTH TO BE		GLAZING AT FLEX WINDOW BETWEEN BARN DOOR SLIDERS.	C10	PAVERS 210 DECORATIVE METAL SLAT FENCE AT FIRE PIT			MANAGEMENT SYSTEM (GRMS). SEE ELEC. & SPEC.		DWGS FOR MARK NUMBER. PROVIDE CONTINUOUS BAND OF LIGHT TO ILLUMINAT
	ORDERED TO FIT WALL INCLUDING FILLERS ON BOTH ENDS. ALLOW FOR APPROXIMATELY 1" TO 1-1/2" OF SPACE ON BOTH ENDS FOR RECESSED	A91 A91	LAUNDRY STORAGE WALL ENCLOSURE OPTIONAL; RELOCATE EYEWASH ACCORDINGLY	C11		E5	E5	OUTLETS FOR TV, CABLE AND POWER FOR TV TO BE MOUNTED IN OPENING OF WALL MOUNTED TV	E62 E62	BOTTOM OF SOFFIT. QUANTITY AND EXACT LOCATION OF SPEAK
	FILLERS. REFER TO DETAILS 7 & 8/550.	A92 A92	EMPLOYEE LOCKERS (4), TWO TIERED - PROVIDE AT LEAST ONE ACCESSIBLE LOCKER (5%) WITH A SHELF BETWEEN 15" & 48" A.F.F.		PLAN FOR FINISH TAG; COORDINATE WITH TILE MANUFACTURER.			PANEL. SEE DETAILS SHEET 552 OR B552 FOR TV OPENING DETAIL.	E63 E63	TO BE RECOMMENDED BY THE BGM COMPA EXHAUST FAN FLUSH MOUNTED IN CEILING
	GUESTROOM EXTERIOR WALL. BLOCKING IN WALL FOR ALL CASEWORK.	A93 A93	FOLDING COUNTER WITH BACKSPLASH, SEE DETAIL 3 ON SHEET 502.	-	FOR REFERENCE ONLY, SEE LANDSCAPE SHEETS	E6	E6	PTAC FOR TYPICAL GUEST ROOM HVAC. SEE DETAILS ON 222 OR B222 FOR PTAC AND WALL	E64 E64	TYPICAL ALL PUBLIC RESTROOMS. COORDINATE MECHANICAL GRILLE LOCATION WITH LOCATION OF ALL ELECTRICAL ITEMS
	KITCHEN CABINETS, HEADBOARD, TV AND TV TRIM, SHOE CUBBY, MIRROR, CLOSET SYSTEM,	A94 A94 A95 A95	HANGING BAR, RE: SPEC.		KEYNOTE LEGEND	E7	E7	SLEEVE INFORMATION. ELECTRIC PANEL, TO BE PAINTED SAME COLOR	E65 E65	AIR DEVICES PER MECHANICAL DRAWINGS PROVIDE 2X2 LAY IN DEVICES IN GRID CEIL
	FIXTURES, TOWEL BAR LADDER, GRAB BARS AND ACCESSORIES. COORDINATE LOCATION WITH MANUFACTURERS INSTALLATION	A95 A96 A96	12" THICKENED SLAB WITH TROUGH - TRENCH DRAIN W/ GRATE TO BE COORDINATED WITH	L1	1 LOW PLANTING FOR MAXIMUM TRAFFIC VISIBILITY AND SAFETY, RE: LA.		E8	AS SURROUNDING WALL. INSTALL AS CLOSE AS POSSIBLE TO THE ENTRY DOOR WALL. UNDERCABINET LIGHT FIXTURES ARE BUILT INTO	E67 E67	AND LINEAR DEVICES IN DRYWALL.
	REQUIREMENTS.	A98 A98	EXTRACTOR REQUIREMENTS. REFER TO FOOD SERVICE AND LAUNDRY	L2	EVERGREEN SHRUBS OR TREES. DO NOT BLOCK	$\neg \lor$		THE CASEWORK AND PROVIDED BY MILLWORK MANUFACTURER. PROVIDE JBOX OR OUTLET	E68 E68	CEILING SLAT AREA. ALT1 - CONDITION WHEN LIGHTS REQUIRE
	CONSTRUCTION TO AVOID OUTLETS OCCURING IN SAME CAVITY WITHIN PARTITION. SEE DETAIL	A101 A101	EQUIPMENT SPEC. FIXED ACCESSIBLE LIFT AS REQUIRED BY ADA.		OVERHEAD FUNCTIONING OF TRUCKS, RE: LA3ACCENT PLANTING AT ENTRIES AND CORNERS	\neg		WHERE SHOWN, CONCEAL WIRING TO LIGHT FIXTURE, RE: ELEC.		EMERGENCY BACKUP IN FIXTURE. ALT1 FIX MARK NO. IS ALR-030-A1.
)	ON STC DIAGRAM ON G-102. PROVIDE BLOCKING IN CEILING/WALL FOR SHADE	A102 A102	DOOR TO REMAIN OPEN IN EGRESS DIRECTION		MAY INCLUDE PERENNIALS FOR SEASONAL INTEREST, RE: LA.	E9	E9	THERMOSTAT. LOCATE THERMOSTAT WITH INTEGRAL OCCUPANCY SENSOR FACING	E69 E69	ALT2 - BLOCK AND PLANK CONSTRUCTION WHERE LIGHT CANNOT BE RECESSED. ALT2
	MOUNT, TOP OF SHADE MOUNT ABUTTS CEILING WHERE CEILING IS 8'-0" & 9'-0". COORDINATE LOCATION WITH MANUFACTURER'S		AT ALL TIMES. SEE DOOR SCHEDULE & SPEC. FOR ADDITIONAL INFO.	L4	.4 LARGE TREES BREAK UP PARKING LOT MASS. TREE TRUNKS TO BE CENTERED ON PARKING STRIPES TO PROTECT FROM VEHICLE			SLEEPING AREA. COORDINATE WITH THE GUESTROOM MANAGEMENT SYSTEM (GRMS). SEE TYPICAL GUESTROOM OUTLET HEIGHT	E70 E70	FIXTURE MARK NO. IS ALR-030-A2. ALT3 - COMPLIANCE WITH ASHRAE 90.1 REQUIRING BI-LEVEL LIGHTING CONTROL. F
	INSTALLATION REQUIREMENTS. PROVIDE BLOCKING IN WALL FOR ALL FIXTURES,	A104 A104	COORDINATE SIZE OF POOL EQUIPMENT ROOM. ROOM WITH CLEARANCES REQUIRED FOR EQUIPMENT AND STORAGE MATERIALS. SEE	L5	OVERHANG DAMAGE, RE: LA.	\neg		DETAILS ON G-300s AND ROOM ELEVATION FOR ADDITIONAL INFORMATION.		TO LIGHT MATRIX FOR MOUNTING HEIGHT. FIXTURE MARK NO. IS ALR-030-A3.
	GRAB BARS AND ACCESSORIES. COORDINATE	A105 A105	SHEET 433 FOR SCHEMATIC EQUIPMENT LAYOUT.		REFER TO BUILDING SITE + EXTERIOR SPEC.	E10	E10	SWITCH TO BE PROVIDED AT HEARING IMPAIRED	E71 E71	ABOVE WASHERS & DRYERS.
	INSTALLATION REQUIREMENTS. PROVIDE MTL WALL TRANSITION STRIP PER THE		INFORMATION ON POOL LAYOUT AND EQUIPMENT.		LA. .8 PLANT MATERIAL ACCENTING MONUMENT		-	SHEET 553 OR B553.	E72 E72	OVER BUFFET ISLAND (MILLWORK OR FF&E
	GUESTROOM BPM, AT BOTH ENDS OF THE SHOWER SURROUND. SEE DWGS FOR FINISH TAG.	A106 A106 A120 A120	PROVIDE CUTOUT IN CARPET FOR SOFA		9 PROVIDE EVERGREEN SHRUBS OR SEASONAL	$ \bot \times$	E11 E12	DUPLEX OUTLET FOR MICROWAVE. SEE KITCHEN ELEVATION SHEETS FOR LOCATION.	E73 E73	LM-239) HIGH COUNTER AS SHOWN. CENTER DECORATIVE LIGHT FIXTURE LM-40
	EDGE OF FIXED GLASS SHOWER PANEL.		CONNECTIVITY FLOOR BOX; REFER TO CRITERIA SHEET 720 FOR OUTLETS.	Ly	PLANTS AT TALL PLANTERS FOR PRIVACY, RE: LA.		E12 E13	DUPLEX OUTLET FOR DISHWASHER. SEE KITCHEN ELEVATION SHEETS FOR LOCATION. REFRIGERATOR OUTLET	E74 E74	OVER COMMUNITY TABLE LM-237 AS SHOW CENTER DECORATIVE LIGHT FIXTURE LM-44
	PROVIDE BLOCKING IN CEILING AT GLASS PANEL. FUR GUESTROOM BATHROOM CEILINGS DOWN TO 8'-0" A.F.F. (TYP).	A121 A121	BANQUETTE LENGTHS; RE: ELEC.	L10	.10 BRAND REQUIRED EXTERIOR TILE AT PATIO AND GRILLE AREA. THIS MAY NOT BE VALUE-ENGINEERED. REFER TO SHEET 112 FOR	F15	E13 E15	MIRROR & OVERHEAD LIGHT TO BE SWITCHED	E76 E76	OVER TABLE CLUSTER LM-231, LM-232, LM-2 SHOWN. DUCT SHAFT FOR OUTSIDE AIR. PROVIDE
	GUESTROOM SURFACE MOUNTED SIGNAGE. REFER TO INTERIOR SIGNAGE SPECIFICATIONS	A123 A123	FINISH SHALL BE SATIN STAINLESS STEEL, OAE.	_	TILE LAYOUT DETAIL AND TO THE BUILDING SITE + EXTERIOR BPM FOR SPECIFICATION.			CENTERED BEHIND MIRROR. SHOWER LIGHT TO BE SWITCHED SEPARATELY, RE: ELEC. REFER TO	\sim	DAMPERS IN ACCORDANCE WITH THE CODI THE LOCAL AUTHORITY JURISDICTION, RE:
	FOR INFORMATION. PROVIDE WALL STOPS WHERE REQUIRED.	A124 A124	MATCH WALL FINISH WHERE INSTALLED. MILLWORK MFR TO SAND SMOOTH, PRIME BACK				、	SHEET G-300s FOR TYPICAL MOUNTING HEIGHTS UNLESS OTHERWISE NOTED.	E80 E80	PROVIDE DEDICATED OUTLET FOR ALL EQUIPMENT, RE: ELEC.; COORDINATE
	PROVIDE WALL STOP BEHIND GUESTROOM ENTRY DOOR. REFER TO GUESTROOM OR	A125 A125	PANEL. PAINT TO BE APPLIED IN THE FIELD. X-222-8 @ 8'-0" CEILINGS, X-222-9 @ 9'-0"	_		< <u>E17</u>	E17	LOCATE CLOSET LIGHT ON FACE OF DOOR HEAD FRAME INSIDE CLOSET AND CONNECT TO SURFACE MOUNTED RELAY SWITCH ON DOOR	E81	REQUIREMENTS PER EQUIPMENT SPECIFICATIONS
	PUBLIC SPACE BPM FOR DOOR HARDWARE.REFER TO GUESTROOM PLANS FOR HOLD-TO		CEILINGS. GC TO VERIFY IN FIELD. IF CEILING CONDITION IS DIFFERENT, COORDINATE CUSTOM					FRAME JAMB. PROVIDE OUTLET ABOVE DOOR	E82 E82	LOCATE HOUSE PHONES 12" FROM DOOR U 44" AFF.
		A126 A126		-		\wedge		ABOVE DOOR. ALL WIRING TO BE CONCEALED WITHIN WALLS.	E82 E84	PROVIDE FLOOR OUTLET AT SOFA ARM BAS
	TV NICHE DETAIL DOES NOT APPLY TO EXTERIOR WALLS; TVs LOCATED ON EXTERIOR WALLS SHOULD BE SURFACE MOUNTED WITH FF&E TRIM	A127 A127	KNEE WALL. REFER TO PUBLIC SPACE OR GUESTROOM BUILDING PRODUCT MANUAL FOR PLASTIC	-		< E18	E18	TWO-TOGGLE SWITCH FOR GARBAGE DISPOSAL, AND UNDERCABINET LIGHT. PROVIDE JBOX(S)	LO4	FOR CONNECTIVITY. COORDINATE CONNECTIVITY REQUIREMENTS WITH SPEC FF&E INDICATED IN THE DRAWING WITH TH
	X-226, REFER TO INTERIOR DESIGN SPECIFICATIONS MANUAL. TVs LOCATED IN THE	A128 A128	LAMINATE CASEWORK.	-		E19	E19	FOR MILLWORK LIGHTING, RE: ELEC. PROVIDE OUTLET FOR WALL SCONCE AT	E85 E85	INTERIOR DESIGN SPECIFICATION MANUAL UNDERCABINET LIGHTING AT BUFFET SHAL
	DEMISING WALLS HAVE THE OPTION BETWEEN PROVIDING A NICHE WITH A SOUND BARRIER (REFER TO DETAIL 3/552) OR THE FF&E TRIM	A120	FF&E. MILLWORK DETAILS ARE PROVIDED WITHIN THE CONSTRUCTION DRAWINGS. FF&E MARK			E20	E20	HEADBOARD WHERE SHOWN IN ELEVATION. SWITCH LOCATED ON LIGHT FIXTURE. SWITCH PLATE w/ INCORPORATED NITE LITE BY		ON IT'S OWN DIMMING CONTROL. CONTROL STATION SHALL BE LOCATED NEXT TO THE
	X-226. COORDINATE WITH THE INTERIOR DESIGN SPECIFICATION MANUAL WHEN PROVIDING X-226		NUMBER IS ALSO PROVIDED WITHIN THE DRAWINGS; REFER TO INTERIOR DESIGN SPECIFICATION MANUAL FOR FF&E.				E20		E87 E87	PREP DOOR.
		A129 A129		-		\rightarrow	E22	ELEC. RANGE/OVEN OUTLET, RE: ELEC.	E89 E89	HEAT. LOCATE EXHAUST DIRECTLY OVER IG MACHINE, RE: MECH. SUPPLEMENTAL HEATERS MOUNT HEATER
	DISTANCE FROM ENTRANCE AT THE REAR OF THE BUILDING MUST FOLLOW LOCAL CODE.	A130 A130		-		E23	E23 E24	P-TRAP AT VANITY IS TO BE POLISHED CHROME. PROVIDE JBOX IN CEILING FOR TRACK LIGHT.	F90 E90	HIGH TO PREVENT DAMAGE, RE: MECH. PROVIDE EXHAUST AT FOOD PREP/KITCHEI
	EDGE OF PORTE COCHERE CANOPY ABOVE, REFER TO DRAWING 110 FOR DETAILS.		MICROWAVE MANUFACTURER'S INSTALL DIMENSIONS FOR UPPER & SIDE CABINETS.			E24		LOCATE SWITCH WHERE SHOWN, RE: ELEC. & MOUNTING HEIGHTS ON G-300s.		AREA FOR HEATING PRE-COOKED BREAKF/ ITEMS, RE: MECH.
	DUMPSTER ENCLOSURE, DO NOT BLOCK OVERHEAD FUNCTIONING OF TRUCK.		PROVIDE BLOCKING IN WALL FOR MOUNTING MICROWAVE.			E26	E26	LOCATE OUTLET NEAR THE CORNER WALL, 48" AFF TO TOP OF BOX.	E91 E91 E92	EXHAUST TOILET ROOMS, TYPICAL, RE: ME
	MONUMENT SIGN, REFER TO CIVIL & EXTERIOR SIGNAGE SPECIFICATIONS	A131 A131	THE BUFFET ISLAND, HUB CREDENZA AND ON US CAN BE MILLWORK OR FF&E. MILLWORK DETAILS			E27	E27	HIGH OUTLET BEHIND FASCIA FOR SOLAR SHADE, RE: ELEC.	E9Z	TO ENSURE VESTIBULE COMFORT NEAR EXTERIOR ENTRIES, RE: ELEC.
	DOWNSPOUTS TO BE TIGHT-LINED INTO UNDERGROUND STORM SEWER WHEREVER POSSIBLE. WHERE NOT POSSIBLE, THEY SHALL		ARE PROVIDED WITHIN THE CONSTRUCTION DRAWINGS. FF&E MARK NUMBER IS ALSO PROVIDED WITHIN THE DRAWINGS; REFER TO			E28	E28	SPACE.	E93 E93	SELF-CONTAINED WITH REMOTE CONDENS
	DISCHARGE ONTO CONCRETE SPLASH BLOCKS. STORM WATER SHALL NOT DRAIN ACROSS		INTERIOR DESIGN SPECIFICATION MANUAL FOR FF&E.			E29	E29	DESK OUTLET, DATA, & TELEPHONE JACK TO BE CENTERED WITHIN THE DESK OPEN SPACE. COORDINATE POWER AND DATA WITH DESK	E94 E94	ER: MECH. MAIN LAUNDRY AIR SHOULD NOT BE RETUR TO SYSTEMS WHICH SERVE ANY OTHER SP
	WALKWAYS, RE: CIVIL. SIDE ENTRY CANOPY ABOVE, REFER TO	A132 A132	FF&E. MILLWORK DETAILS ARE PROVIDED WITHIN			\wedge		SPECIFICATION IN THE INTERIOR DESIGN SPECIFICATION MANUAL.		TO PREVENT LAUNDRY ODORS FROM
	DRAWING 221 FOR DETAILS. ENTRANCE PATIO TRELLIS, REFER TO DRAWING		THE CONSTRUCTION DRAWINGS. FF&E MARK NUMBER IS ALSO PROVIDED WITHIN THE DRAWINGS; REFER TO INTERIOR DESIGN			E30	E30	UNDER DESK WITH DEDICATED DUPLEX OUTLET,	E97 E97	PLUMBED EYE WASH STATION, CONNECTED
	112 FOR DETAILS. POOL PATIO FENCE. SEE SHEET 430 FOR	A133 A133	SPECIFICATION MANUAL FOR FF&E.	_		E31	E31	RE ELEC. LIGHT BOLLARDS. LOCATE IN GROUND 8" FROM	E98 E98	COLD WATER SUPPLY LINE, RE: PLUMB. PROVIDE WALL HYDRANTS AT PAVING/ PAT
	DETAILS. REFER TO THE BUILDING SITE + EXTERIOR BPM FOR ASSISTANCE WITH ORDERING THE WEBER		WALL MOUNT BRACKET (MIN. 4"). WALLS SHALL BE A MINIMUM OF 6" THICK WHERE TVs ARE			· ·		SIDEWALK (CENTER TO EDGE) PROVIDE CONCRETE FOUNDATION W/ J-BOX PER MANUF. REQUIREMENTS.		AREAS, SERVICE AREAS AS NECESSARY AF BUILDING, RE: PLUMB.
	GRILL. TYPICAL GUESTROOM WINDOW.		LOCATED IN PUBLIC SPACE. COORDINATE WITH TV MOUNT, REFER TO INTERIOR DESIGN SPECIFICATION MANUAL. A CHASE WALL MAY BE			E33	E33	PARKING LIGHT FIXTURE ALONG PERIMETER OF	E99 E99 E100 E100	PROVIDE APPROPRIATE CONNECTIONS FOI GUEST LAUNDRY EQUIPMENT, RE: MEP & SI
	CHANNEL LETTER SIGNAGE AT FACE OF BUILDING, SEE EXTERIOR SIGNAGE	A135 A135	PROVIDED AS AN ALTERNATE SOLUTION.	_		\wedge			E100 E100 E101 E101	
	SPECIFICATIONS FOR REQUIREMENTS. PROVIDE ADEQUATE BLOCKING BEHIND WALL FOR	A135 A 135	MANUAL FOR X-706-42ACC ACCESSIBLE GUESTROOM CLOSET SYSTEM LOCATED ON ACC			\times	E34	PTAC LOUVER INTEGRAL WITH WINDOW FRAME. FINISH TO MATCH WINDOW FRAME.	E102 E102	
	SIGNAGE. ELEVATOR. RE: SPEC.	A136 A136	QUEEN GR SHEETS. TV MOUNT COVER TO BE MOUNTED AT OPPOSITE			E35	E35	AT EXTERIOR SIGNAGE PROVIDE ACCESS FOR MOUNTING ELECTRICAL COMPONENTS AND MAKING FINAL ELECTRICAL CONNECTIONS	E103 E103	COORDINATE PLUMBING AND POWER FOR EQUIPMENT, RE: FS.
	SELF-CLOSING RATED LINEN CHUTE DISCHARGE HATCH W/FUSIBLE LINK TIED TO FIRE ALARM SYSTEM. PROVIDE CLEAR FLOOR SPACE BELOW	A137 A137	OF ENTRY DOOR. FRAMELESS DOOR JAMB DOOR SYSTEM, RE:	-				BROUGHT TO SIGN LOCATION FROM ELECTRICAL	E104 E104	PROVIDE APPROPRIATE CONNECTIONS FO REFRIGERATOR ICEMAKER, RE: FS.
	DISCHARGE AREA	A138 A138	SPEC. PROVIDE WD BLOCKING AT HUB CREDENZA TUBE	-		E37	E37	PANEL, RE: ELEC. PROVIDE DUPLEX POWER/USB OUTLET ABOVE	E105 E105	REQUIRES INDIRECT DRAINS, RE: FS.
	DETAIL. GUTTER AND DOWNSPOUT - USE SPLASH BLOCK	A139 A139	CEILING ANCHORS. CONCEALED EPOXY COATED STEEL BRACKET	-		\sim		GR CUBBY AT 3'-6" AFF TO BOTTOM OF OUTLET. SEE ALSO ELEVATIONS AS THEY APPLY.	E106 E106	HYDRATION STATION MFR RECOMMENDAT
	ON ROOF. PROVIDE ACCESS PANELS/DOORS TO ALL ROOF		COUNTERTOP SUPPORT; REQ'D SIZE AND SPACING TO SUPPORT COUNTERTOP WEIGHT & EQUIPMENT TO BE PROVIDED BY MILLWORK			E38	E38	PROVIDE DEDICATED EXHAUST FOR POOL CHEMICALS IF STORED IN POOL EQUIP ROOM OR	E107 E107	
	AREAS - LOCATE NEAR FRONT TO BACK CENTER OF THE BUILDING.	A140 A140	CONTRACTOR. PROVIDE CONCEALED FASTENER SYSTEM TO	-		E40	E40	POOL STOR ROOM, RE: MECH. LOCATE KEY SWITCH FOR ELECTRO MAG LOCK	E108 E108	SEPARATELY, RE: ELEC.
	PARAPET WALLS - SEE EXTERIOR ELEVATIONS FOR HEIGHTS AND FINISHES.	A 140	ANCHOR SHELF INTO WALL. PROVIDE BLOCKING IN WALL FOR SHELF FASTENING. SHELF TO SIT			\checkmark		INSIDE OF LOCKOUT ROOM AT WALL BEHIND DOOR. MOUNT IN AN ACCESSIBLE LOCATION ADJACENT TO DOOR IN THE HOLD OPEN	E109 E109 E110 E110	PANEL AND DIMMING.
	PROVIDE JBOX AT MIRROR FOR LIGHTING, RE: ELEC.		FLUSH AGAINST WALL. FASTENING SYSTEM TO BE RATED TO SUPPORT 50 LB. PER SHELF. FASTENING SYSTEM TO PREVENT BOWING OF			E41	E41	POSITION AT 4'-0" A.F.F. LOCKOUT DOOR IS PROVIDED TO ALLOW TWO	F111 E111	MASTER CONTROL STATION, RE: ELEC.
	LINEN CHUTE VENT CAP, RE: MECH. 5" PVC RAINLEADERS TO RUN DOWN INSIDE		SHELF.			\searrow		GUESTROOMS TO BE OCCUPIED BY THE SAME GUEST, OR EACH GUESTROOM TO BE OCCUPIED		PRE-SET SCENE CONTROL, RE: ELEC.
	PORTE-COCHERE COLUMNS TO UNDERGROUND STORMWATER, RE: CIVIL. EMERGENCY & EXIT LIGHTS SHOWN							BY SEPARATE GUESTS. SEE HARDWARE SET FOR SPECIAL HARDWARE. CARD READER FOR MAGNETIC DOOR LOCK TO BE LOCATED ON		INDIVDUAL DIMMING CONTROL SYSTEM FO (NOT CENTRALIZED SYSTEM) RE: ELEC.
	SCHEMATICLY ONLY FOR IDENTIFICATION OF REQUIRED FIXTURE TYPE AS SHOWN IN THE					\wedge		INTERIOR WALL OF VESTIBULE, NEXT TO DOOR FRAME.	E113 E113	GUESTROOM CEILING IN ACCESSIBLE LOCA
	PUBLIC SPACE BPM. LOCATION TO BE CONFIRMED WITH LOCAL A.H.J. AND IN					E42 F44	E42 E44	ΕΥΕΨΑSH STATION	E117 E117	TYPICAL ALL GUESTROOMS, RE: ELEC. SECURITY CAMERAS ON MANAGED PROPER
	ACCORDANCE IBC. CENTER CEILING TILE IN CORRIDOR. TYPICAL							EQUIPMENT AND REQUIRED CLEARANCES, RE: ELEC.	\sim	ARE REQUIRED. SECURITY CAMERAS ARE PREFERRED ON FRANCHISE PROPERTIES A SHOULD BE LOCATED AS FOLLOWS: 1. CAM
	CEILING HEIGHT IN CORRIDORS IS 8'-0" A.F.F. COORDINATE MECHANICAL GRILLE LOCATIONS					E45		FLOOR DRAINS TO BE LOCATED IN WET AREAS, RE: PLUMB		#1 SHOULD HAVE CLEAR VIEW OF VESTIBUL AND BE VISIBLE FROM VESTIBULE. 2. CAME
	WITH LOCATION OF ALL ELECTRICAL ITEMS. SEE GUESTROOM BATHROOM DRAWINGS FOR					E47	E47	LOCATE HOUSE PHONES 12" FROM DOOR UNO; 44"AFF.		SHOULD HAVE CLEAR VEIW OF FOSSE SER WHICH CAN BE IN VARIOUS LOCATIONS. 3.
	LIGHT FIXTURE AND EXHAUST CONFIGURATION. 24"x 24" ACOUSTICAL CEILING TILE (TYP). RE: SPEC.					E50	E49 E50	UTILITY SINK. MOP SINK.		CAMERA #3 SHOULD HAVE CLEAR VIEW OF IN WORK ROOM. ALL CAMERA FEEDS SHOU EXTEND TO OCV ROOM (OR OTHER SUITABI
	WALL COVERING TO BE INSTALLED AT EXPOSED					E51	E51	RE: SPEC. & EXTERIOR BPM FOR ACCEPTABLE NATATORIUM RATED LIGHT FIXTURE.	E118 E118	IOCATION) FOR RECORDNING.
	AREA, AND PAINT FINISH BEHIND THE SLATS. SEE							PROVIDE POWER/DATA OUTLET FOR PRINTER,	<u></u>	
30 31	AREA, AND PAINT FINISH BEHIND THE SLATS. SEE DWGS FOR FINISH TAFS. REFER TO IN-A-PINCH EQUIPMENT SHEETS.					< E53	E53	RE: ELEC. WIRES TO RUN BETWEEN THE MILLWORK BACK PANELS.		THIS LOCATION. RE: ELEC.

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TROL RANGE E120 E120 MUSIC SYS PORTE CO LOCKED A TROL UNDERCABINET E: ELEC. ELECTRICA E121 E121 UTLET, RE: ELEC. INDICATE SILL OF ST LET, RE: ELEC. FACEPLAT TACLES LOCATED ALTERNAT RE: ELEC. PROVIDE REQD AND OP FOR ACCESS. MULTI-CON K AT NIGHTSTAND TO ALLOW R IN THE BEDROOM OF E122 E122 PROVIDE [EQUIPMEN GHT FIXTURE, SEE E127 E127 DOOR SEC R. PROVIDE E128 E128 CALL BUT GHT TO ILLUMINATE DESK. E131 E131 LOCATE IN CATION OF SPEAKERS RECEPTIO THE BGM COMPANY. LOCATE D E132 E132 JNTED IN CEILING, DESK. FROOMS. PROVIDE I E133 E133 L GRILLE LOCATIONS ALL PRINT LECTRICAL ITEMS. ELEC. NICAL DRAWINGS. PROVIDE (E134 E134 CES IN GRID CEILING COMPUTE RYWALL. SYSTEMS. S OUTSIDE OF THE COORDINA E135 E135 DEVICES, [IGHTS REQUIRE SYSTEDS I IXTURE. ALT1 FIXTURE SO AS NOT ELEMENTS CONSTRUCTION EQUIPMEN RECESSED. ALT2 E137 E137 PROVIDE F -030-A2. RE: ELEC. ASHRAE 90.1 COORDINA <E139 E139 ITING CONTROL. REFER HYDRATIO UNTING HEIGHT. ALT3 MILLWORK R-030-A3. E140 E140 LOW VOLT XTURES DIRECTLY MOUNTED COORDINA E141 E141 HT FIXTURE LM-403 WITH SPEC LWORK OR FF&E DRAWING S SHOWN. SPECIFICA HT FIXTURE LM-402 COORDINA E145 E145 LM-237 AS SHOWN. SERVICE E HT FIXTURE LM-401 ALIGNMEN I-231, LM-232, LM-233 AS OUTLETS; HORIZONT E AIR. PROVIDE INDICATED E WITH THE CODE OF TRANSFOF JRISDICTION, RE: MECH. LIGHTS TO LET FOR ALL BEHIND RE OORDINATE OUTLET IN PMENT TRANSFOF 12" FROM DOOR UNO, LS, RE: ELEC. AT SOFA ARM BASE RDINATE IENTS WITH SPECIFIED RAWING WITH THE ICATION MANUAL. AT BUFFET SHALL BE NTROL. CONTROL TED NEXT TO THE FOOD AUSTED OF EXCESS DIRECTLY OVER ICE MOUNT HEATERS , RE: MECH. DD PREP/KITCHEN COOKED BREAKFAST TYPICAL, RE: MECH. ERS WILL BE REQUIRED OMFORT NEAR ENT SHOULD BE EMOTE CONDENSERS, LD NOT BE RETURNED DORS FROM CALS TO RECEIVE FULLY ATION, CONNECTED TO NE, RE: PLUMB. S AT PAVING/ PATIO S NECESSARY AROUND ONNECTIONS FOR

ENT, RE: MEP & SPEC. TE, TYPICAL CHUTE TERMINATION VECTIONS FOR AND POWER FOR ALL

ONNECTIONS FOR R, RE: FS. IERE EQUIPMENT INS, RE: FS. D DRAINAGE PER

WET AREAS SHALL BE DIMMED

R C01 LIGHTING SUB R C01 - TOUCH SCREEN ON, RE: ELEC. R C01 - REMOTE L, RE: ELEC.

REQUIRED TO BE ON TROL SYSTEM FOR C03 EM) RE: ELEC.

LOCATION ABOVE ACCESSIBLE LOCATION, S, RE: ELEC. IANAGED PROPERTIES Y CAMERAS ARE SE PROPERTIES AND

OLLOWS: 1. CAMERA IEW OF VESTIBULE STIBULE. 2. CAMERA #2 V OF FOSSE SERVER S LOCATIONS. 3. E CLEAR VIEW OF SAFE ERA FEEDS SHOULD R OTHER SUITABLE

ING. OWER IS REQUIRED AT

RECOMMENDATIONS,

E120 MUSIC SYSTEMS IN HUB/LOBBY, VESTIBULE AND PORTE COCHERE. LOCATE EQUIPMENT IN LOCKED AREA. RE: ELEC. E121 ELECTRICAL OUTLETS FOR CARDIO EQUIPMENT INDICATE TO BE MOUNTED HORIZONTALLY IN SILL OF STOREFRONT. COORDINATE FACEPLATES FINISH WITH ADJACENT FINISH. ALTERNATELY. INDICATE FLOOR OUTLETS AS REQD AND PROVIDE IN-SLAB MULTI-COMPARTMENT RACEWAY (WALKER DUCT) TO ALLOW FOR MAXIMUM FLEXIBILITY, RE: ELEC. E122 PROVIDE DEDICATED OUTLET FOR ALL EQUIPMENT, RE: ELEC. E123 DOOR SECURED WITH CARD READER, RE: SPEC. E134 LOCATE INTERCOM AT WELCOME DESK RECEPTION AREA. E132 LOCATE INTERCOM AT WELCOME DESK RECEPTION AREA. E132 LOCATE INTERCOM AT WELCOME DESK RECEPTION AREA. E133 PROVIDE CONDUIT BACK TO COMPUTER/COMMUNICATIONS FOR ALL SYSTEMS. E134 COORDINATE PLACEMENT OF ELECTRICAL DESK. E135 COORDINATE PLACEMENT OF ELECTRICAL DESK. E136 COORDINATE PLACEMENT OF POOKER FOR ALL PRINTER, COMPUTER/COMMUNICATIONS FOR ALL SYSTEMS. E137 PROVIDE POWER FOR FOOD PREP EQUIPMENT, RE: ELEC. & FS. E139 COORDINATE LOCATION OF POWER FOR HYDRATION TATION TO BE CONCEALED BY MILLWORK. E130 LOCATED ON MAINUAL. E137 ROVIDE FORE FOR FLOCALED BY MILLWORK. E140 LOW VOLTAGE CEILLING SENSOR WITH WALL MOUNTED MOMENTARY SWITCH. E140 LO	KE	YNOTE LEGEND		KE
E121 ELECTRICAL OUTLETS FOR CARDIO EQUIPMENT INDICATE TO BE MOUNTED HORIZONTALLY IN SILL OF STOREFRONT. COORDINATE FACEPLATES FINISH WITH ADJACENT FINISH. ALTERNATELY, INDICATE FLOOR OUTLETS AS REQD AND PROVIDE IN-SLAB MULTI-COMPARTIMENT RACEWAY (WALKER DUCT) TO ALLOW FOR MAXIMUM FLEXIBILITY, RE: ELEC. E122 PROVIDE DEDICATED OUTLET FOR ALL EQUIPMENT, RE: ELEC. E127 DOOR SECURED WITH CARD READER, RE: SPEC. E131 LOCATE INTERCOM AT WELCOME DESK RECEPTION AND CARD READER IN VIEW OF DESK. E131 LOCATE DURESS ALARM AT EACH WELCOME DESK. E132 LOCATE DURESS ALARM AT EACH WELCOME DESK. E133 PROVIDE ISOLATED GROUND RECEPTACLES FOR ALL PRINTER, COMPUTERS AND MONITORS, RE: ELEC. E134 PROVIDE CONDUIT BACK TO COMPUTER/COMMUNICATIONS FOR ALL SYSTEDS. INTERFACE AND INTERIOR GRAPHICS SO AS NOT TO ENCROACH ON KEY FOCAL ELEMENTS, COORDINATE PLUG HEIGHT WITH EQUIPMENT. E135 COORDINATE PLACEMENT OF ELECTRICAL DEVICES, DIFFUSERS, ACCESS PANELS, SYSTEDS. INTERFACE AND INTERIOR GRAPHICS SO AS NOT TO ENCROACH ON KEY FOCAL ELEMENTS, COORDINATE PLUG HEIGHT WITH EQUIPMENT. E139 COORDINATE LOCATION OF POWER FOR HYDRATION STATION TO BE CONCEALED BY MILLWORK. E140 LOW VOLTAGE CELLING SENSOR WITH WALL MOUNTED MOMENTARY SWITCH. E141 COORDINATE ELECTRICAL OUTLETS WITH FOOD SERVICE EQUIPMENT TO ENSURE PROPER ALIGNMENT BETWEEN APPLIANCES AND OUTLETS; OUTLETS TO BE PLACED HORIZONTALLY CENTRERED ON GROUT LINE AS INDICATED ON ELEVATIONS. E146<		MUSIC SYSTEMS IN HUB/LOBBY, VESTIBULE AND PORTE COCHERE. LOCATE EQUIPMENT IN	ID1	ID1
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	E146	LIGHTS TO BE LOCATED IN UPPER CABINETS, BEHIND REMOVABLE CABINET PANEL. PROVIDE OUTLET IN THIS SPACE TO PLUG-IN		
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				ID29
				ID30

FO	R REFERENCE ONLY, SEE SPEC. & PROTO
	<u>YNOTE LEGEND</u>
	TEXTURED WALL COATING IS THE REQUIRED FINISH FOR EXTERIOR GUESTROOM WALLS.
	ALL EXTERIOR CORNERS SHALL HAVE FULL HEIGHT CORNER GUARDS.
	REFER TO INTERIOR DESIGN SPECIFICATION MANUAL WINDOW TREATMENT SPECIFICATIONS AND ELEVATIONS FOR ROLLER SHADE INFORMATION
	CENTER ARTWORK ON WALL OR AS SHOWN
	WHERE REQUIRED FOR ACCESIBILITY, PROVIDE MOTORIZED SHADES. REFER TO DRAPERY MANUAL AND ID SPEC MANUAL FOR ADDITIONAL INFORMATION AND POWER REQUIREMENTS.
	CLOSET CEILING PAINT TO MATCH THE WALL PAINT WITHIN THE CLOSET; REFER TO THE ENLARGED DETAILS FOR INFORMATION.
	CENTER WALL MOUNTED LIGHTED FIXTURES OF THE ELEVATOR DOORS.
	SEE SPECIFIC AREA ENLARGED PLANS AND ELEVATIONS FOR INFORMATION ON FINISHES AND FF&E ITEMS.
	REFER TO A-700s FOR FLOOR TRANSITION DETAILS
	REFER TO INTERIOR SIGNAGE SPEECIFICATION FOR RESTROOM SIGN DETAILS.
	METAL TRIM ALONG TOP EDGE OF TILE WAINSCOT. MARK NUMBER INDICATED ON ELEVATION.
	ALIGN TOP MIRROR X-502 AND COAT HOOK WITH OPTIONAL PANEL X-503 WITH TOP OF DOOR FRAME. IF X-503 IS NOT USED, PROVIDE X-711 HOOKS.
	CARPET PAD TO BE INSTALLED ONLY WITH BROADLOOM CARPET OPTIONS.
	LVT UNDERLAYMENT MAY BE NEEDED; COORDINATE WITH LVT OPTIONS IN THE INTERIOR DESIGN SPECIFICATION MANUAL.
	SLAB TILE AT VANITY WING WALLS TO BE MOUNTED VERTICALLY TO AVOID SEAMS.
	TILE PATTERN TO RUN HORIZONTALLY. TILE SEAM TO START @ 40" (SAME AS MIRROR). TOP OF MIRROR TO ALIGN WITH TILE SEAM, HEIGHT MIN 7' AFF.
	4" COUNTERTOP BACKSPLASH TO BE INSTALLED ONLY IF WALL PAINT OR WALL COVERING IS INSTALLED. IF OPTIONAL TILE BACKSPLASH IS INSTALLED, TILE IS TO RUN FROM COUNTERTOF TO UNDER CUBBIES AND STOP AT EDGE OF COUNTERTOP (DOES NOT RUN BEHIND THE REFRIGERATOR). USE METAL EDGE TIRM AT TIL VERTICAL EDGES. TILE BACKSPLASH MUST BE INSTALLED ON SIDEWALL WHEN COOKTOP OR RANGE IS DIRECTLY ADJACENT, AND IN THAT INSTANCE SHOULD BE ON BACKWALL TOO. TILE TO BE TW-001 AND GROUT TO BE GR-005, SEE GUESTROOM BPM.
	WALLCOVERING TO WRAP AROUND ALL WALL CORNERS TRANSITIONING TO SLAT WALL.
	PORCELAIN FLOOR TILE, TF-004-A1 AND GROUT

GR-004 ARE OPTIONAL FINISHES FOR THE LVT FLOORING, IDSM #X-010, AT GUESTROOM ENTRIES, KITCHENS, AND BATHROOMS.

PRINTS ISSUED 11/01/2023 - CITY SUBMITTAL **REVISIONS:**

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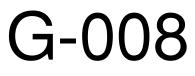
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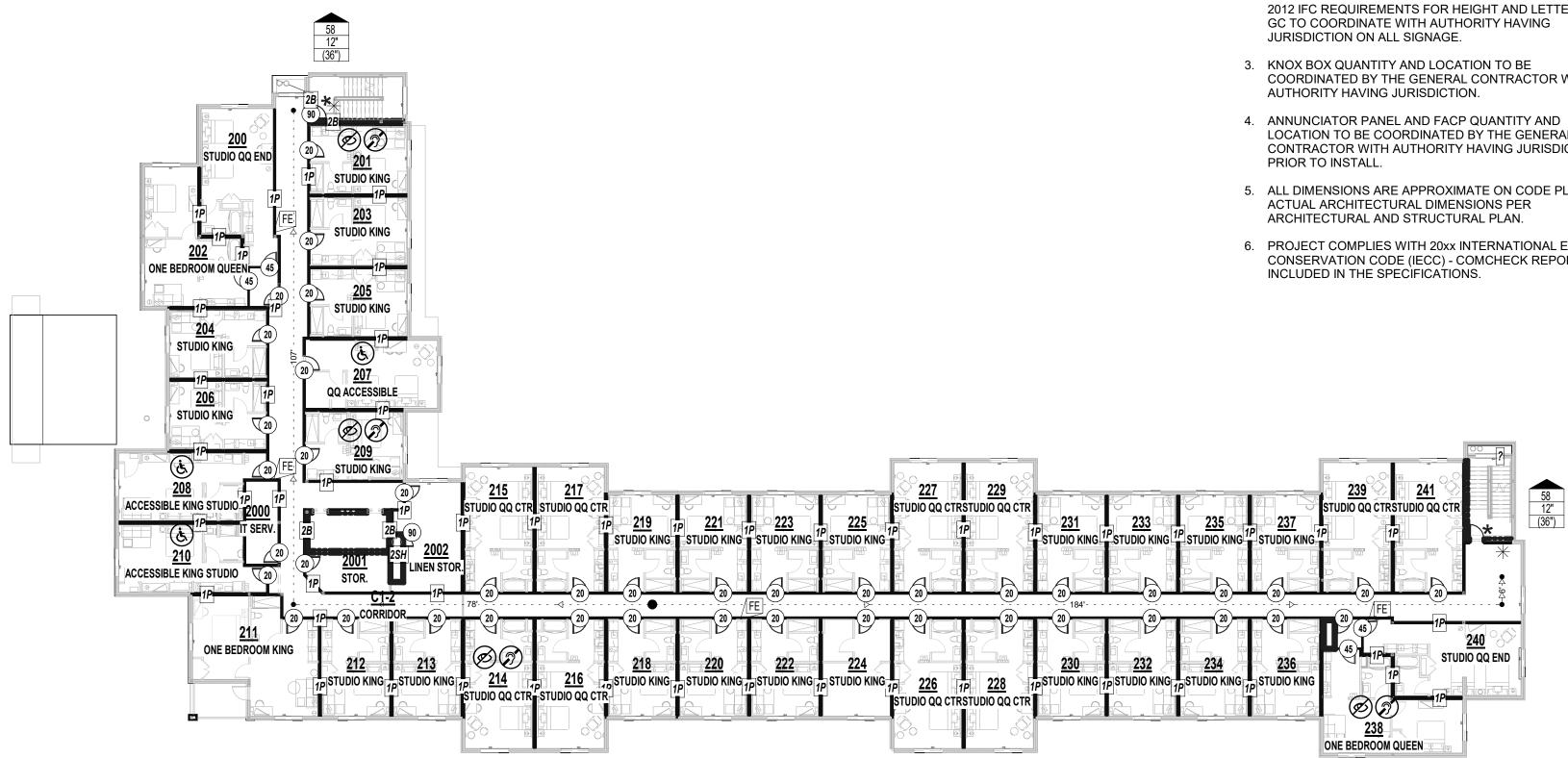
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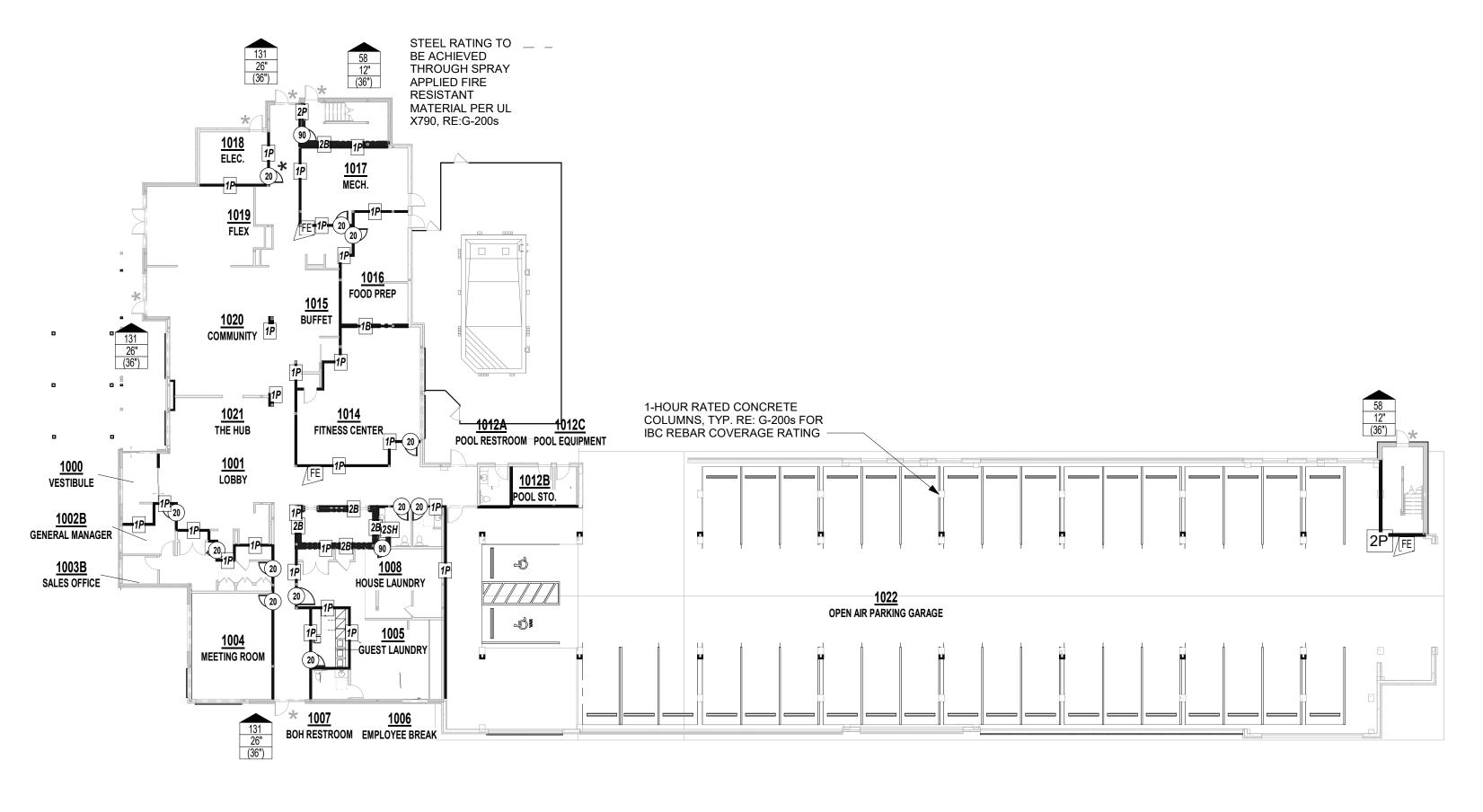
SHEET TITLE

TOWNEPLACE KEYNOTES

PROJECT NUMBER: 23098







CODE PLAN GENERAL NOTES:

- 1. FIRE EXTINGUISHERS SHALL BE LOCATED SO THAT THE MAXIMUM TRAVEL DISTANCE SHALL NOT EXCEED 75 FEET. GENERAL CONTRACTOR TO PROVIDE SEMI-RECESSED FIRE EXTINGUISHER CABINETS WITH FIRE EXTINGUISHERS THROUGHOUT AT ACCESSIBLE HEIGHT.
- 2. SIGNS IDENTIFYING FIRE PROTECTION EQUIPMENT, CONTROLS FOR AIR CONDITIONING SYSTEMS, SPRINKLER RISERS AND VALVES, OR OTHER FIRE DETECTION, SUPPRESSION OR CONTROL ELEMENTS SHALL BE IDENTIFIED FOR THE USE OF THE FIRE DEPARTMENT PER 2012 IBC. SIGNAGE SHALL ALSO MEET 2012 IFC REQUIREMENTS FOR HEIGHT AND LETTERING.
- COORDINATED BY THE GENERAL CONTRACTOR WITH
- LOCATION TO BE COORDINATED BY THE GENERAL CONTRACTOR WITH AUTHORITY HAVING JURISDICTION
- 5. ALL DIMENSIONS ARE APPROXIMATE ON CODE PLAN.
- 6. PROJECT COMPLIES WITH 20xx INTERNATIONAL ENERGY CONSERVATION CODE (IECC) - COMCHECK REPORT





	PRINTS ISSUED 11/01/2023 - CITY SUBMITTAL				
PROJECT NAME: PROJECT LOCATION: CODE:	TOWNPLACE SUITES BY MARRIOTT LEE'S SUMMIT, MO 2018 IBC	CHAP	CHAPTER SEVEN		
CODE REVIEW COMPLETED BY:	A.J. DOLPH	704 FIRE-RESISTANCE RATING OF STRUCTURAL MEMBERS: 705.5 EXTERIOR WALLS	1 HOUR RATED SPRAY APPLIED FIRE RESISTANT MATERIAL FIRE SEPARATION DISTANCE > 10'-0"	-	
SECTION 302 OCCUPANCY:	R-1, HOTEL TRANSIENT A-2, UNCONCENTRATED	FIRE-RESISTANCE RATING: TABLE 705.8 MAX AREA OF	RATED EXPOSURE FROM INSIDE ONLY FIRE SEPARATION DISTANCE > 25'-0"	-	
	A-4, SWIMMING POOL S-2, OPEN PARKING GARAGE	EXTERIOR WALL OPENINGS: 706 FIRE WALLS:	UNPROTECTED, NO LIMIT N/A	-	
	TER FOUR	707 FIRE BARRIERS: 708 FIRE PARTITIONS:	2 HOUR RATED 1 HOUR RATED	-	
402 COVERED MALL BUILDINGS: 403 HIGH RISE BUILDINGS: 404 ATRIUMS: 405 UNDERGROUND BUILDINGS: 407 GROUP I-2: 408 GROUP I-3:	N/A416 FLAMMABLE FINISHES:N/AN/A417 DRYING ROOMS:N/AN/A418 ORGANIC COATINGS:N/AN/A419 LIV/WORK UNITS:N/AN/A421 HYDROGEN FUEL GAS ROOMS:N/AN/A422 AMBULATORY CARE FACILITY:N/A	709 SMOKE BARRIERS: 710 SMOKE PARTITIONS: 711 FLOOR & ROOF ASSEMBLIES: 712 VERTICAL OPENINGS:	1 HOUR-ELEVATOR LOBBY N/A, NO RATING REQ.D 1 HOUR RATED N/A	-	
409 MOTION PICTURE PROJECTION: 410 STAGES AND PLATFORMS: 411 SPECIAL AMUSEMENT BUILDING 412 AIRCRAFT RELATED OCCUP: 413 COMBUSTIBLE STORAGE: 414 HAZARDOUS MATERIALS: 415 GROUPS H-1, H-2, H-3, H-4, H-5:	N/A423 STORM SHELTERS:N/AN/A424 CHILDREN'S PLAY STRUCTURE:N/AS: N/A425 HYPERBARIC FACILITY:N/AN/A426 COMBUSTIBLE DUSTS & GRAINS:N/AN/A427 MEDICAL GAS SYSTEMS:N/AN/A428 HIGHER EDUCATION LAB:N/AN/A428 HIGHER EDUCATION LAB:N/A	713 SHAFT ENCLOSURES: 714 PENETRATIONS: 715 FIRE-RESISTANT JOINT SYSTEM TABLE 716.1(2) OPENING FIRE PROTECTION & RATING:	2 HOUR RATED MATCH ASSEMBLY RATING I: MATCH ASSEMBLY RATING 2 HOUR SHAFT: 90 MINUTE DOOR	P.C. F.C. DESIGN NING	
406.5 OPEN PARKING GARAGES:	MUST BE TYPE I, II, OR IV CONSTRUCTION 40% MIN. OPENING FOR NATURAL VENTILATION	717 DUCTS AND AIR	1 HOUR FIRE BARRIER: 45 MINUTE DOOR 1 HOUR CORRIDOR: 20 MINUTE DOOR REQUIRED AT RATED PENETRATIONS.	ATES P.C. ARCHITECTURE INTERIOR DESIGN ENGINEERING PLANNING	
420 GROUPS I-1, R-1, R-2, R-3, & R-4: 420.2 SEPARATION WALLS:	WALLS SEPARATING SLEEPING UNITS TO BE FIRE PARTITIONS PER SECTION 708	TRANSFER OPENINGS: SECTION 718 CONCEALED SPACES:	1.5 HOUR DAMPER RATING		
420.3 HORIZONTAL SEPARATION:	FLOORS SEPARATING SLEEPING UNITS TO BE HORIZONTAL ASSEMBLY PER SECTION 711		PTER NINE	to S S Pic S S S S S S S S S S S S S S S S S S S	
420.4 AUTOMATIC SPRINKLER:	13R PER 903.3.1.2 FOR R PTER FIVE	903 AUTOMATIC SPRINKLER SYSTEM	M: R-1, REQUIRED: NFPA 13R A-2, REQUIRED: NFPA 13 (13 REQ'D. ABOVE 5,000 SQFT) S-2, REQUIRED: NFPA 13, DRY SYSTEM	rosemann.com Associates, P	
TABLE 504.3 ALLOWABLE HEIGHT IN FEET ABOVE GRADE PLANE:		905 STANDPIPE SYSTEM: 906 PORTABLE FIRE EXTINGUISHER	CALSS I REQUIRED S: REQUIRED PER NFPA 10, 75'-0" MAX TRAVEL	TOSEMA & AS & AS & AS & AS & AS & AS & AS & A	
TABLE 504.3 ALLOWABLE HEIGHT IN FEET ABOVE GRADE PLANE:		907 FIRE ALARM & DETECTION SYSTEM: 909 SMOKE CONTROL SYSTEM:	REQUIRED PER NFPA 72 COMPLY WITH IMC	City, N City, N Semar Rosemar	
TABLE 504.4 ALLOWABLE NUMBER OF STORIES ABOVE GRADE PLANE:	CONSTRUCTION TYPE VA R-1: ACTUAL: 4 ALLOWABLE: 4 STORIES A-2: ACTUAL: 1 ALLOWABLE: 2 STORIES		PTER TEN	1526 G Kansas p: 816.4 w: www.r © 20231	
TABLE 504.4 ALLOWABLE NUMBER OF STORIES ABOVE GRADE PLANE:	CONSTRUCTION TYPE IIA S-2: ACTUAL: 1 ALLOWABLE: 6 STORIES	TABLE 1004.5 MAX FLOOR AREA ALLOWANCES PER OCCUPANT:	R-1, 200 GROSS	÷ ي ي ي ي ي ي ي ي ي ي ي ي ي ي ي ي ي ي ي	
TABLE 506.2 ALLOWABLE AREA FACTOR:	CONSTRUCTION TYPE VA R-1: ACTUAL:19,765 ALLOWABLE: 12,000 SQFT A-2: ACTUAL:8,720 ALLOWABLE: 11,500 SQFT		A-2, 15 NET A-4, 50 GROSS-SWIMMING POOL A-4, 15 GROSS-POOL DECK		
TABLE 506.2 ALLOWABLE AREA FACTOR:	CONSTRUCTION TYPE IIB S-2: ACTUAL: 13,680 ALLOWABLE: 117,000SQFT	SECTION 1005 MEANS OF EGRESS SIZING:	S-2, 200 GROSS STAIRS 0.2/OCC., W/ SPRINKLER EXCEPTION OTHER EGRESS 0.15/OCC., W/ SPRINKLER EXCP.	UNITE OF MISSO	
506.2.4 MIXED-OCCUPANCY, MULTISTORY BUILDING:	Aa = [At + (NS x lf)] Aa = [12,000 + (12,000 x 0.75)] Aa = 21,000	TABLE 1006.2.1 SPACES WITH ONE EXIT OR EXIT ACCESS DOORWAY:	R-1: 10 OCC., 75' MAX. PATH OF EGRESS A: 49 OCC., 75' MAX. PATH OF EGRESS S: 29 OCC., 100' MAX. PATH OF EGRESS	→ DAVID EUGENE → HENPRIKSE PL NHMBER 	
506.3 FRONTAGE INCREASE:	W = (Ln x Wn) / F W = (100 x 30) / 100 W = 30	TABLE 1006.3.2 MINIMUM NUMBER OF EXITS PER STORY:	2 EXITS REQ.D W/ OCCUPANT LOAD/STORY 1-500		
506.33. AMOUNT OF INCREASE:	If = [F/P - 0.25]W/30 If = [100/100 - 0.25]30/30	1009.3.3 AREA OF REFUGE: 1009.8 TWO-WAY COMMUNICATION:		-	
TABLE 508.4 REQUIRED SEPARATION	lf = 0.75	1011.2 STAIRWAY WIDTH CAPACITY: 1011.12 STAIRWAY TO ROOF:	44" MIN. UNOCCUPIED ROOF, ACCESS VIA ROOF HATCH		
OF OCCUPANCIES:	R - R: 1 HOUR R - A: 1 HOUR R - S: 1 HOUR A - A: 0 HOUR A - S: 0 HOUR	1014.2 HANDRAIL HEIGHT: 1014.6 HANDRAIL EXTENSIONS: 1015 GUARDS:	34" MIN 38" MAX. EXTEND HORIZONTALLY 12" BEYOND TOP RISER CONTINUE SLOPE 1 DEPTH TREAD AT BOTTOM 42" MIN. HEIGHT, 4" MAX. OPENING	LS LS	
TABLE 509 INCIDENTAL USES:	S - S: 0 HOUR LAUNDRY > 100 SF, 1HR	TABLE 1017.2 EXIT ACCESS TRAVEL DISTANCE:	R: 250' W/ 13R SPRINKLER	$\left \begin{array}{c} 0 \\ 0 \end{array} \right $	
СНА	STORAGE > 100 SF, 1HR PTER SIX	1019 EXIT ACCESS STAIRWAYS:	A: 250' W/ 13 SPRINKLER S: 400' W/ 13 SPRINKLER 2 HOUR RATED PER 713		
TABLE 601 FIRE RESISTANCE REQS. FOR BUILDING ELEMENTS (HOURS):		TABLE 1020.1 CORRIDOR RATING:	R: 1/2 HOUR RATED W/ 13R SPRINKLER A: NO RATING REQ.D W/ 13 R SPRINKLER	D D 28	
TOR BUILDING ELEMENTS (HOURS).	PRIMARY STRUCUTRAL FRAME:1 HOURINTERIOR BEARING WALL:1 HOUREXTERIOR BEARING WALL:1 HOURNON-BEARING WALL:0 HOURFLOOR CONSTRUCTION:1 HOUR	1020.1.1 HOISTWAY OPENING PROTECTION: TABLE 1020.2 MIN. CORRIDOR WIDTI 1020.4 DEAD ENDS:	REQUIRED PER 3006.2 H: 44" MIN. 20'-0" MAX.	DOU 6406	
	ROOF CONSTRUCTION: 1 HOUR CONSTRUCTION TYPE IIA			AC AC	
	PRIMARY STRUCUTRAL FRAME:1 HOURINTERIOR BEARING WALL:1 HOUREXTERIOR BEARING WALL:1 HOURNON-BEARING WALL:0 HOURFLOOR CONSTRUCTION:1 HOUR	ACCESSIBILITY TO COMPLY WITH TH TABLE 1107.6.1.1 ACCESSIBLE DWELLING & SLEEPING UNITS:	HIS CH. OF IBC, ICC A117.1, ADA, & FAIR HOUSING 126 TOTAL UNITS, 7 REQ.D ACC. UNITS 9 ACCESSIBLE UNITS PROVIDED		
TABLE 602 FIRE RESISTANCE	ROOF CONSTRUCTION: 1 HOUR		ER TWELVE		
REQS. FOR EXTERIOR WALLS BASED ON FIRE SEP. DISTANCE:	0 HOUR <30 FEET, 0 >30 FEET	1206 SOUND TRANSMISSION:	50STC RATING BETWEEN SLEEPING UNITS		
		3006 ELEVATOR LOBBIES AND HOISTWAY OPENING PROTECTION:	HOISTWAY OPENING PROTECTION REQUIRED		
		3006.3 HOISTWAY OPENING PROTECTION:	SMOKE & DRAFT CONTROL DOOR PER UL 1784 PROVIDED AT EACH ELEVATOR HOISTWAY DOOR		
R-VALUES		CODE PLAN LEC	GEND		
CLIMATE ZONE: 3A CONST. TYP PROJECT COMPLYING WITH LEE'S SUM	100 20" REQUIRED EXI (72")		1001 ROOM NUMBER FIRE EXTINGUISHER CABINET	SHEET TITLE CODE ANALYSIS	
BUILDING CODE, ADOPTED ENERGY CONSERVATION CODE AND MARRIOTT SUSTAINABILITY BRAND STANDARDS		ROVIDED BY DESIGN PARTITION	FIRE EXTINGUISHER CABINET OR SURFACE MTD. AT CONC. Image: State of the stat	PROJECT NUMBER: 23098	
LEE'S SUMMIT CODE ARTICLE VIII, SEC WALL ASSEMBLIES AS PART OF BL	TION 7-803	ARTITION (IBC 708) ARRIER (IBC 707)	(DEFER SUBMITTAL FOR LOC.) Y FIRE DEPARTMENT CONENCTION	SHEET NUMBER:	
R-11 FLOOR ASSEMBLIES AS PART OF E R-19	BLDG ENV: C=:1SH=====:1SH=====:1SH======1SH======1SH==========	HAFT ENCLOSURE (IBC 713)	DOOR RATING DOOR WITH PANIC HARDWARE		
EXCEPTION: CONCRETE FLOOD CONCTACT WITH THE EARTH N BE INSULATED	NEED NOT	ARTITION (IBC 708) IRE OR SMOKE BARRIER (IBC 709)	 ★ (SEE DOOR SCHEDULE) ▲ EXIT SIGNAGE; SEE ELECTRICAL 	G-100	
ROOF ASSEMBLIES AS PART OF BL R-19 CEILINGS AS PART OF BLDG ENVEI R-30	LOPE:	HAFT ENCLOSURE (IBC 713) RE WALL (IBC 706)	EGRESS STARTING POINT EGRESS DISTANCE OF TRAVEL EGRESS DIRECTION OF TRAVEL		

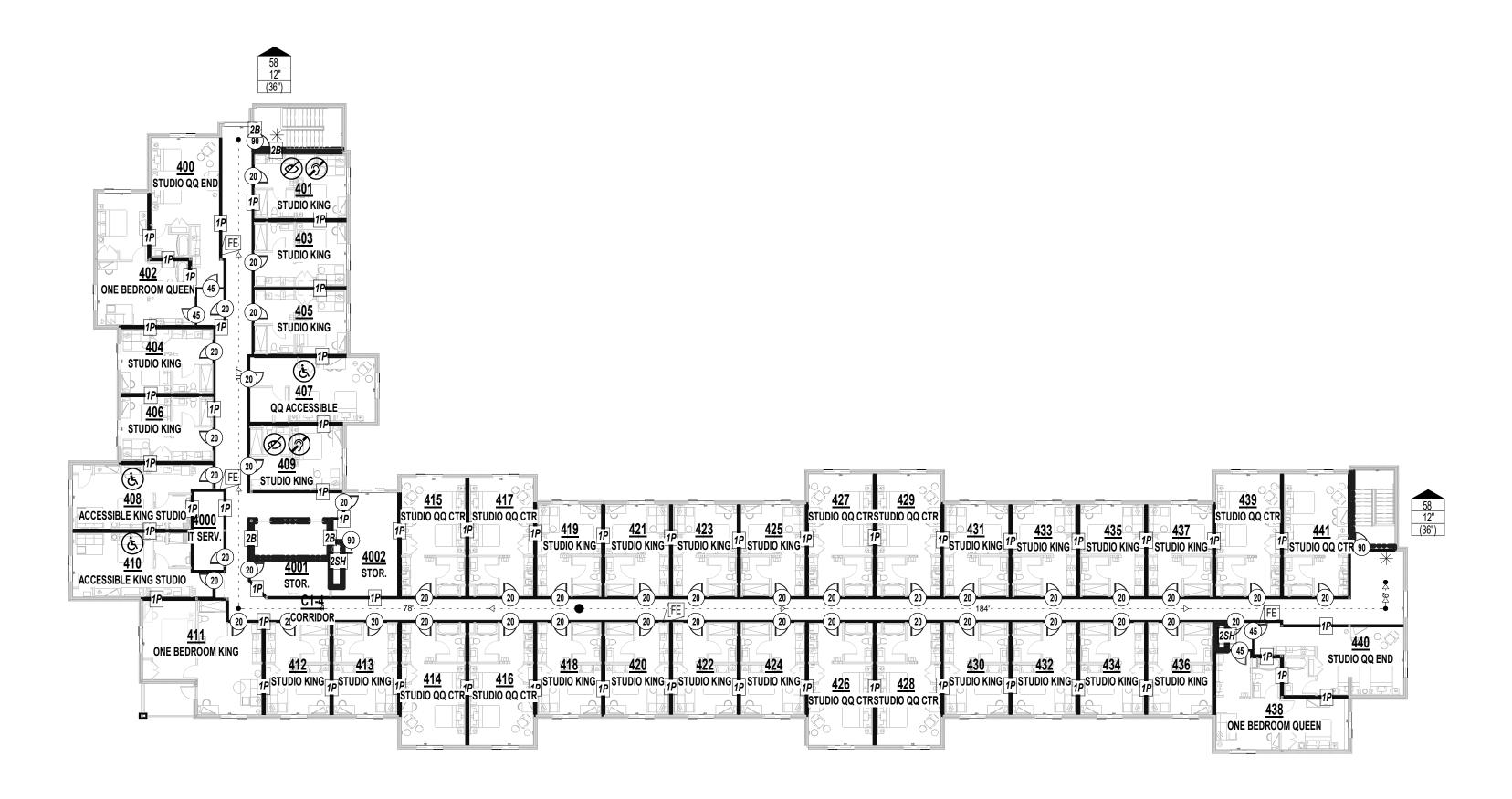
♥ - - |> - 20' - - - → - •

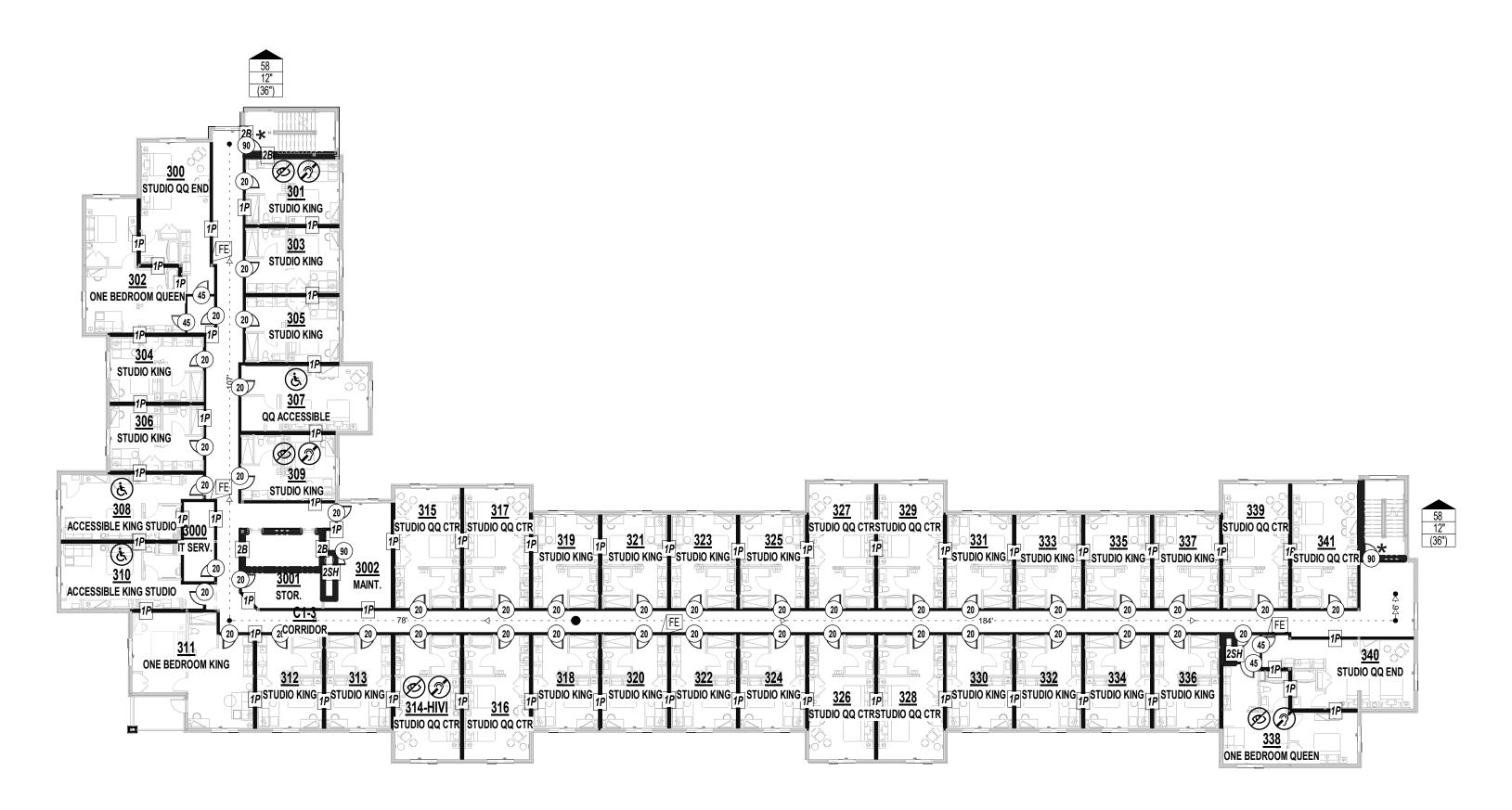
EGRESS DIRECTION OF TRAVEL

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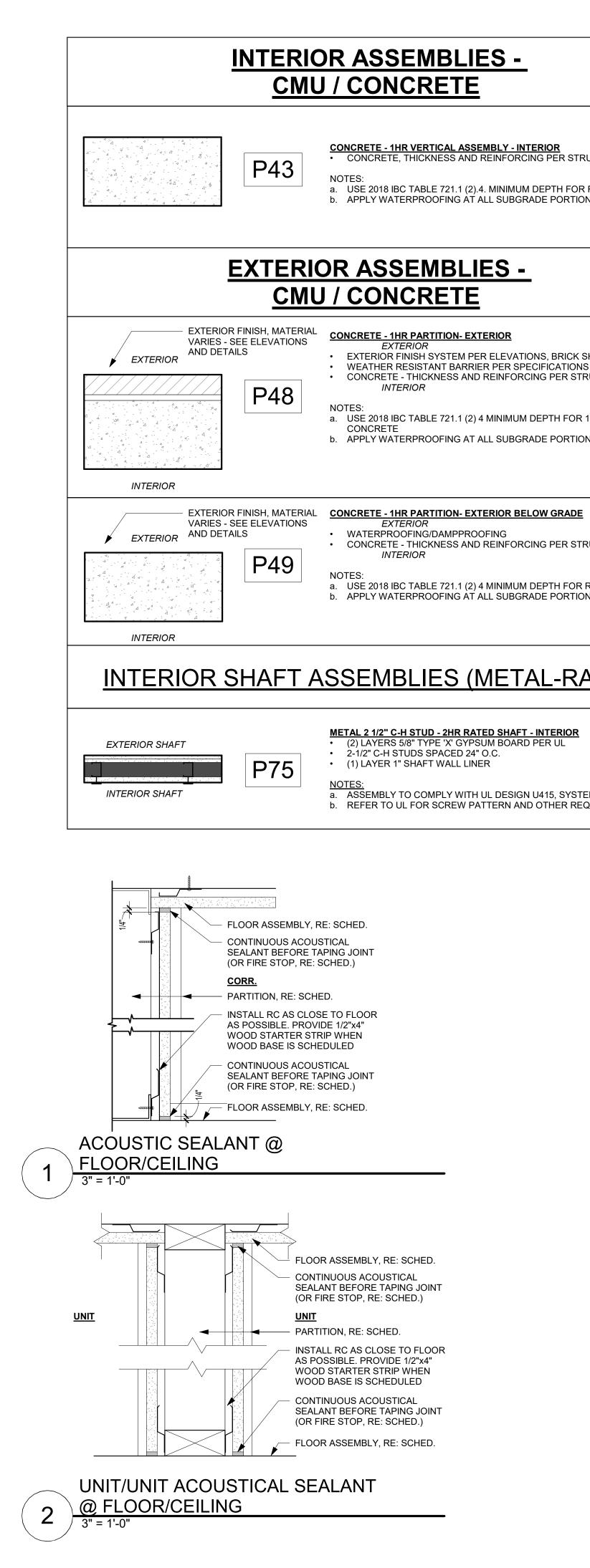
OSemanr Ò Boulevard MO 64108-1448 and المالية. 18 City, الم ή X Q ••• DAVID EUG ST ACE SUITES DOUGLAS 64064 USA 1810 NORTHEAST LEE'S SUMMIT TOWNEPL

SHEET TITLE CODE ANALYSIS

PROJECT NUMBER: 23098

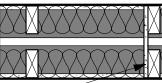
SHEET NUMBER:

G-101



INTERIOR BARRIER ASSEMBLIES -

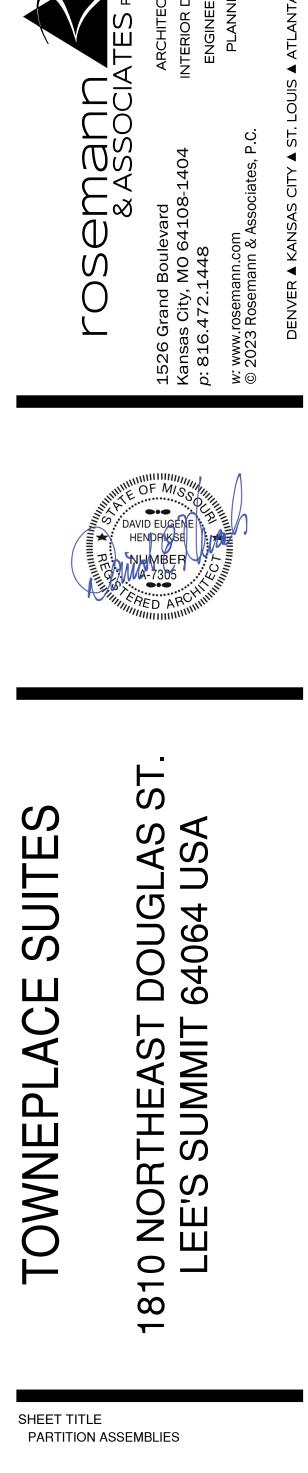
	WOOD - 1 HR RATED		WOOD - NON RATED		
	P15	 WOOD 2X4 STUD - 1HR PARTITION - INTERIOR (2) LAYERS 5/8" TYPE "X" GYPSUM BOARD 2x4 WOOD STUDS SPACED 16" O.C. MAX, OR PER STRUCT. DWGS. 	P1	 WOOD 2X4 STUD - NON-RATED PARTITION - INTERIOR (1) LAYER 5/8" TYPE 'X' GYPSUM BOARD 2x4 WOOD STUDS SPACED 16" O.C. (1) LAYER 5/8" TYPE 'X' GYPSUM BOARD 	
RUCT. DWGS. RATED CONCRETE N OF WALLS		 NOTES: a. ASSEMBLY TO COMPLY WITH 2018 IBC 722.2.1.4.2, INCLUDING TABLE 722.2.1.4 (2) b. REFER TO IBC REFERENCE LISTED ABOVE FOR SCREW PATTERN AND 		NOTES: a. ATTACH GYPSUM WITH 1-1/4" TYPE 'W' STEEL SCREWS @ 12" O.C. WOOD 2X6 STUD - NON-RATED PARTITION - INTERIOR	
	P16	OTHER REQUIREMENTS WOOD 2X6 STUD - 1HR PARTITION - INTERIOR (2) LAYERS 5/8" TYPE "X" GYPSUM BOARD 2x6 WOOD STUDS SPACED 16" O.C. MAX, OR PER STRUCT. DWGS.	P2	 (1) LAYER 5/8" TYPE 'X' GYPSUM BOARD 2x6 WOOD STUDS SPACED 16" O.C. (1) LAYER 5/8" TYPE 'X' GYPSUM BOARD NOTES: 	
	P19	 NOTES: ASSEMBLY TO COMPLY WITH 2018 IBC 722.2.1.4.2, INCLUDING TABLE 722.2.1.4 (2) REFER TO IBC REFERENCE LISTED ABOVE FOR SCREW PATTERN AND OTHER REQUIREMENTS WOOD 2X4 STUD - 1HR BARRIER - INTERIOR SOUND DAMPENING (1) LAYER 5/8" TYPE "X" GYPSUM BOARD 25 MSG GALVANIZED RESILIENT CHANNEL, SPACED 24" O.C. 	P4	 a. ATTACH GYPSUM WITH 1-1/4" TYPE 'W' STEEL SCREWS @ 12" O.C. WOOD 2X4 STUD - NON-RATED PARTITION - INTERIOR SOUND DAMPENING (1) LAYER 5/8" TYPE 'X' GYPSUM BOARD 2x4 WOOD STUDS SPACED 16" O.C. 3 1/2" BATT INSULATION IN STUD CAVITY (1) LAYER 5/8" TYPE 'X' GYPSUM BOARD NOTES: a. ATTACH GYPSUM WITH 1-1/4" TYPE 'W' STEEL SCREWS @ 12" O.C. 	
SHOWN S RUCT. 1 HOUR N OF WALLS		 2x4 WOOD STUDS SPACED 16" O.C. MAX OR PER STRUCT. DWGS. 3-1/2" FRICTION FIT UNFACED BATT INSULATION IN STUD CAVITY (1) LAYER 5/8" TYPE "X" GYPSUM BOARD NOTES: ASSEMBLY TO COMPLY WITH UL DESIGN U305 (SEPT 19, 2023) REFER TO UL FOR SCREW PATTERN AND OTHER REQUIREMENTS SHALL COMPLY WITH IBC SECTION 7 FOR FIRE BARRIERS STC SHALL BE 50 OR OVER AT UNIT ASSEMBLIES, MEETING ASTM E90 (STC 51 BASED UPON TESTING NGC 2011071) 	P5	 WOOD 2X6 STUD - NON-RATED PARTITION - INTERIOR SOUND DAMPENING (1) LAYER 5/8" TYPE 'X' GYPSUM BOARD 2x6 WOOD STUDS SPACED 16" O.C. 5 1/2" BATT INSULATION IN STUD CAVITY (1) LAYER 5/8" TYPE 'X' GYPSUM BOARD NOTES: a. ATTACH GYPSUM WITH 1-1/4" TYPE 'W' STEEL SCREWS @ 12" O.C. 	
	P20	 e. WHERE BARRIER DIVIDES A CORRIDOR AND A UNIT, CORRIDOR SIDE SHALL RECEIVE THE RESILIENT CHANNEL WOOD 2X6 STUD - 1HR BARRIER - INTERIOR (1) LAYER 5/8" TYPE "X" GYPSUM BOARD 2x6 WOOD STUDS SPACED 16" O.C. MAX, OR PER STRUCT. DWGS. 5-1/2" FRICTION FIT UNFACED BATT INSULATION IN STUD CAVITY (1) LAYER 5/8" TYPE "X" GYPSUM BOARD 	FINISHED SIDE	 WOOD 2X4 STUD - NON-RATED FURRING - INTERIOR (1) LAYER 5/8" TYPE 'X' GYPSUM BOARD ON OCCUPIED SIDE 2x4 WOOD STUDS SPACED 16" O.C. NOTES: a. ATTACH GYPSUM WITH 1-1/4" TYPE 'W' STEEL SCREWS @ 12" O.C. 	
RUCT. RATED CONCRETE IN OF WALLS		NOTES: a. ASSEMBLY TO COMPLY WITH UL DESIGN U305 (SEPT 19, 2023) b. REFER TO UL FOR SCREW PATTERN AND OTHER REQUIREMENTS c. SHALL COMPLY WITH IBC SECTION 7 FOR FIRE BARRIERS	FINISHED SIDE	 WOOD 2X6 STUD - NON-RATED FURRING - INTERIOR (1) LAYER 5/8" TYPE 'X' GYPSUM BOARD ON OCCUPIED SIDE 2x6 WOOD STUDS SPACED 16" O.C. NOTES: a. ATTACH GYPSUM WITH 1-1/4" TYPE 'W' STEEL SCREWS @ 12" O.C. 	
-	P21	 WOOD 2X6 STUD - 1HR BARRIER - INTERIOR SOUND DAMPENING (1) LAYER 5/8" TYPE "X" GYPSUM BOARD 25 MSG GALVANIZED RESILIENT CHANNEL, SPACED 24" O.C. 2x6 WOOD STUDS SPACED 16" O.C. MAX OR PER STRUCT. DWGS. 5-1/2" FRICTION FIT UNFACED BATT INSULATION IN STUD CAVITY (1) LAYER 5/8" TYPE "X" GYPSUM BOARD 		RTITION ASSEMBLIES - D - 1 HR RATED	
<u>ATED)</u>		 NOTES: a. ASSEMBLY TO COMPLY WITH UL DESIGN U305 (SEPT 19, 2023) b. REFER TO UL FOR SCREW PATTERN AND OTHER REQUIREMENTS c. SHALL COMPLY WITH IBC SECTION 7 FOR FIRE BARRIERS d. STC SHALL BE 50 OR OVER AT UNIT ASSEMBLIES, MEETING ASTM E90 (STC 51 BASED UPON TESTING NGC 2011071) e. WHERE BARRIER DIVIDES A CORRIDOR AND A UNIT, CORRIDOR SIDE 	P10	 WOOD 2X4 STUD - 1HR PARTITION - INTERIOR (1) LAYER 5/8" TYPE "X" GYPSUM BOARD 2x4 WOOD STUDS SPACED 16" O.C. MAX, OR PER STRUCT. DWGS. 3-1/2" FRICTION FIT UNFACED BATT INSULATION IN STUD CAVITY (1) LAYER 5/8" TYPE "X" GYPSUM BOARD 	
		SHALL RECEIVE THE RESILIENT CHANNEL ARRIER ASSEMBLIES -		NOTES: a. ASSEMBLY TO COMPLY WITH UL DESIGN U305 (SEPT 19, 2023) b. REFER TO UL FOR SCREW PATTERN AND OTHER REQUIREMENTS	
EM A (FEB 14, 2023) QUIREMENTS	<u>WOO</u> P22	 D - 2 HR RATED WOOD 2X4 STUD - 2HR BARRIER - INTERIOR (2) LAYERS 5/8" TYPE "X" GYPSUM BOARD 25 MSG GALVANIZED RESILIENT CHANNEL, 24" O.C. 2x4 WOOD STUDS SPACED 16" O.C. MAX OR PER STRUCT. DWGS. 3-1/2" FRICTION FIT BATT INSULATION IN STUD CAVITY (2) LAYERS 5/8" TYPE "X" GYPSUM BOARD 	P11	 WOOD 2X6 STUD - 1HR PARTITION - INTERIOR (1) LAYER 5/8" TYPE "X" GYPSUM BOARD 2x6 WOOD STUDS SPACED 16" O.C. MAX, OR PER STRUCT. DWGS. 5-1/2" FRICTION FIT UNFACED BATT INSULATION IN STUD CAVITY (1) LAYER 5/8" TYPE "X" GYPSUM BOARD NOTES: a. ASSEMBLY TO COMPLY WITH UL DESIGN U305 (SEPT 19, 2023) 	
		NOTES: a. ASSEMBLY TO COMPLY WITH UL DESIGN U301 (SEPT 19, 2023) b. REFER TO UL FOR SCREW PATTERN AND OTHER REQUIREMENTS c. SHALL COMPLY WITH IBC SECTION 7 FOR FIRE BARRIER d. STC SHALL BE 50 OR OVER AT UNIT ASSEMBLIES, MEETING ASTM E90 (STC 58 BASED UPON TESTING NGC 2011069)	P12	 b. REFER TO UL FOR SCREW PATTERN AND OTHER REQUIREMENTS WOOD 2X4 STUD - 1HR PARTITION - INTERIOR SOUND DAMPENING (1) LAYER 5/8" TYPE "X" GYPSUM BOARD 25 MSG GALVANIZED STEEL RESILIENT CHANNEL, 24" O.C. 2x4 WOOD STUDS SPACED 16" O.C. MAX. OR PER STRUCT. DWGS. 3-1/2" FRICTION FIT UNFACED BATT INSULATION IN STUD CAVITY (1) LAYER 5/8" TYPE "X" GYPSUM BOARD 	
	P23	 WOOD 2X6 STUD - 2HR BARRIER - INTERIOR (2) LAYERS 5/8" TYPE "X" GYPSUM BOARD 25 MSG GALVANIZED RESILIENT CHANNEL, 24" O.C. 2x6 WOOD STUDS SPACED 16" O.C. MAX OR PER STRUCT. DWGS. 5-1/2" FRICTION FIT BATT INSULATION IN STUD CAVITY (2) LAYERS 5/8" TYPE "X" GYPSUM BOARD NOTES: a. ASSEMBLY TO COMPLY WITH UL DESIGN U301 (SEPT 19, 2023) b. REFER TO UL FOR SCREW PATTERN AND OTHER REQUIREMENTS c. SHALL COMPLY WITH IBC SECTION 7 FOR FIRE BARRIER 	VERIFY IF WALL SHEATHING FOR SHEAR W/ STRUCT DWGS. IS REQUIRED. SHEATHING SHALL ATTACH DIRECTLY TO STUDS PER STRUCT.	 NOTES: a. ASSEMBLY TO COMPLY WITH UL DESIGN U305 (SEPT 19, 2023) b. REFER TO UL FOR SCREW PATTERN AND OTHER REQUIREMENTS c. STC SHALL BE 50 OR OVER AT UNIT ASSEMBLIES, MEETING ASTM E90 (STC 51 BASED UPON TESTING NGC 2011071) d. WHERE PARTITION DIVIDES A CORRIDOR AND UNIT, RESILIENT CHANNEL SHALL BE ON CORRIDOR SIDE OF WALL, GC TO COORDINATE e. WHERE PARTITION IS USED AS A DEMISING WALL AND/OR FOR STRUCTURAL SHEAR, GC TO COORDINATE ADDITIONAL LAYERS OF STRUCTURAL MATERIAL PER STRUCTURAL DRAWINGS. THESE LAYERS 	
		d. STC SHALL BE 50 OR OVER AT UNIT ASSEMBLIES, MEETING ASTM E90 (STC 58 BASED UPON TESTING NGC 2011069)		TO BE ADDITIVE TO THE ASSEMBLY LISTED ABOVE AND SHALL BE INCORPORATED PER UL 263. WHERE ONLY ONE LAYER IS ADDED FOR STRUCTURAL SHEAR, THIS SHALL BE PLACED ON SIDE OF WALL WHERE ONLY GYPSUM BOARD RESIDES, NOT ON RESILIENT CHANNEL SIDE.	
		<u>- NON RATED</u>		 WOOD 2X6 STUD - 1HR PARTITION - INTERIOR SOUND DAMPENING (1) LAYER 5/8" TYPE "X" GYPSUM BOARD 25 MSG GALVANIZED STEEL RESILIENT CHANNEL, 24" O.C. 2x6 WOOD STUDS SPACED 16" O.C. MAX. OR PER STRUCT. DWGS. 	
	EXTERIOR FINISH, MATERIAL VARIES - SEE ELEVATIONS AND DETAILS EXTERIOR P36 INTERIOR	 WOOD 2x6 STUD - NON-RATED EXTERIOR EXTERIOR EXTERIOR FINISH SYSTEM PER ELEVATIONS WEATHER RESISTANT BARRIER, PER SPECIFICATIONS (1) LAYER SHEATHING PER STRUCT. DWGS. 2x6 WOOD STUDS SPACED 16" O.C. MAX OR PER STRUCT. DWGS. (1) LAYER 5/8" TYPE "X" GYPSUM BOARD INTERIOR NOTES: a. INTERIOR TO BE PAINTED PER FINISH SCHEDULE b. SCREW PATTERN PER STRUCT. 	UNIT VERIFY IF WALL SHEATHING FOR SHEAR W/ STRUCT DWGS. IS REQUIRED. SHEATHING SHALL ATTACH DIRECTLY TO STUDS PER STRUCT.	 5-1/2" FRICTION FIT UNFACED BATT INSULATION IN STUD CAVITY (1) LAYER 5/8" TYPE "X" GYPSUM BOARD NOTES: ASSEMBLY TO COMPLY WITH UL DESIGN U305 (SEPT 19, 2023) REFER TO UL FOR SCREW PATTERN AND OTHER REQUIREMENTS STC SHALL BE 50 OR OVER AT UNIT ASSEMBLIES, MEETING ASTM E90 (STC 51 BASED UPON TESTING NGC 2011071) WHERE PARTITION DIVIDES A CORRIDOR AND UNIT, RESILIENT CHANNEL SHALL BE ON CORRIDOR SIDE OF WALL, GC TO COORDINATE WHERE PARTITION IS USED AS A DEMISING WALL AND/OR FOR STRUCTURAL SHEAR, GC TO COORDINATE ADDITIONAL LAYERS OF STRUCTURAL MATERIAL PER STRUCTURAL DRAWINGS. THESE LAYERS TO BE ADDITIVE TO THE ASSEMBLY LISTED ABOVE AND SHALL BE INCORPORATED PER UL 263. WHERE ONLY ONE LAYER IS ADDED FOR STRUCTURAL SHEAR, THIS SHALL BE PLACED ON SIDE OF WALL WHERE ONLY GYPSUM BOARD RESIDES, NOT ON RESILIENT CHANNEL SIDE. 	
			1/2" GYP DRAFT STOP @ MAX 10' O.C. (RE: IBC 718.3 FOR LOCATION REQ'S)	 WOOD DOUBLE 2X4 STUD - 1HR PARTITION - INTERIOR (1) LAYER 5/8" TYPE "X" GYPSUM BOARD 2x4 WOOD STUDS SPACED 16" O.C. MAX, OR PER STRUCT. DWGS. 3 1/2" FRICTION FIT BATT INSULATION IN STUD CAVITY 2" AIR GAP 2x4 WOOD STUDS SPACED 16" O.C. MAX, OR PER STRUCT. DWGS. 3 1/2" FRICTION FIT BATT INSULATION IN STUD CAVITY (1) LAYER 5/8" TYPE "X" GYPSUM BOARD NOTES: a. ASSEMBLY TO COMPLY WITH UL U341 (AUG 4, 2023) b. REFER TO UL FOR SCREW PATTERN AND OTHER REQUIREMENTS c. PROVIDE 1/2" GYP BOARD DRAFT STOP AT MAX 10'-0" O.C. d. STC SHALL BE 50 OR OVER AT UNIT ASSEMBLIES, MEETING ASTM E90 (STC 61 BASED UPON TESTING TL11-120) 	



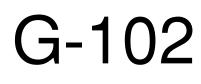
INTERIOR PARTITION ASSEMBLIES -

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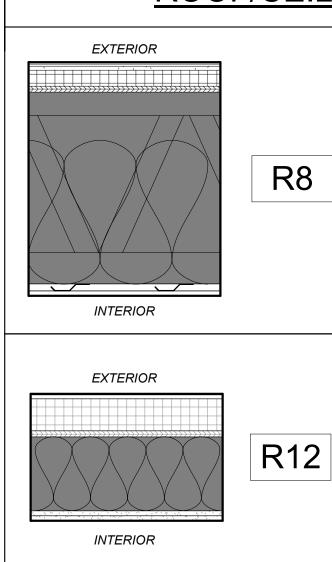
REVISIONS:



PROJECT NUMBER: 23098



ROOF/CEILING ASSEMBLY-WOOD



WOOD PARALLEL CHORD TRUSS - 1HR - TPO
TPO ROOFING, PER SPECIFICATION TO MEET IECC

- 1/2" COVERBOARD, NON-COMBUSTIBLE, WATER-RESISTANT
- TAPERED INSULATION, SLOPE PER PLAN • 15/32" MIN. ROOF SHEATHING, SEE NOTE b.
- WOOD TRUSS FRAMING PER STRUCT. DWGS, MAX SPACING 24" OC -
 - REFERENCE UL FOR CONSTRUCTION • R-30 INSULATION PER LEE'S SUMMIT CODE, INSTALLED PER UL

• 25 MSG GALVANIZED STEEL RESILIENT CHANNELS, SPACED PER UL • (1) LAYER OF 5/8" TYPE 'AG-C' GWB, BY AMERICAN GYPSUM CO, PER UL

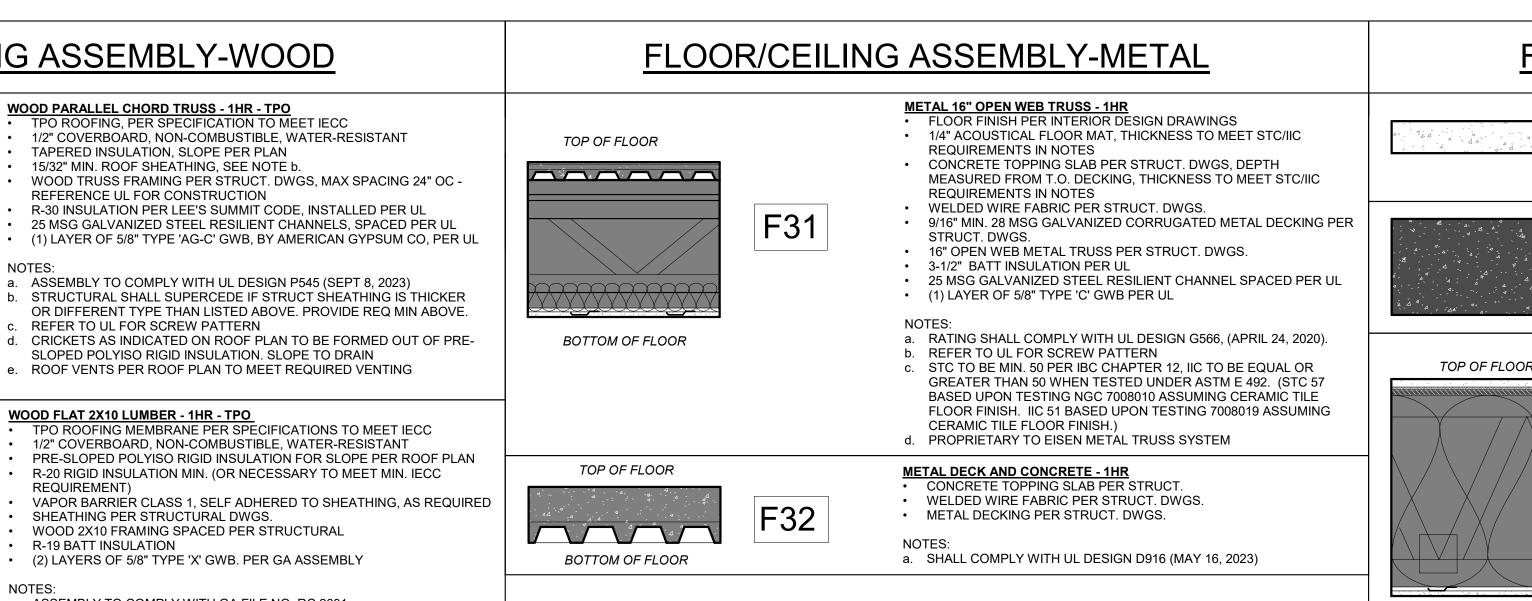
NOTES: a. ASSEMBLY TO COMPLY WITH UL DESIGN P545 (SEPT 8, 2023) b. STRUCTURAL SHALL SUPERCEDE IF STRUCT SHEATHING IS THICKER

OR DIFFERENT TYPE THAN LISTED ABOVE. PROVIDE REQ MIN ABOVE. c. REFER TO UL FOR SCREW PATTERN

d. CRICKETS AS INDICATED ON ROOF PLAN TO BE FORMED OUT OF PRE-SLOPED POLYISO RIGID INSULATION. SLOPE TO DRAIN

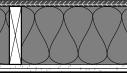
- WOOD FLAT 2X10 LUMBER 1HR TPO
 TPO ROOFING MEMBRANE PER SPECIFICATIONS TO MEET IECC
 1/2" COVERBOARD, NON-COMBUSTIBLE, WATER-RESISTANT PRE-SLOPED POLYISO RIGID INSULATION FOR SLOPE PER ROOF PLAN
- R-20 RIGID INSULATION MIN. (OR NECESSARY TO MEET MIN. IECC REQUIREMENT)
- VAPOR BARRIER CLASS 1, SELF ADHERED TO SHEATHING, AS REQUIRED
 SHEATHING PER STRUCTURAL DWGS.
- WOOD 2X10 FRAMING SPACED PER STRUCTURAL
- R-19 BATT INSULATION • (2) LAYERS OF 5/8" TYPE 'X' GWB. PER GA ASSEMBLY
- NOTES:

a. ASSEMBLY TO COMPLY WITH GA FILE NO. RC 2601 b. REFER TO GA FOR SCREW PATTERN



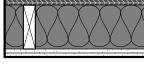
BOTTOM OF FLO





BOTTOM OF FLOO

TOP OF FLOOR



BOTTOM OF FLOO

FLOOR/CE	ILING ASSEMBLY-WOOD	PRINTS ISSUED 11/01/2023 - CITY SUBMITTAL
F1	CONCRETE - NON-RATED - SLAB ON GRADE• CONCRETE SLAB ON GRADE PER STRUCT. DWGS.NOTESa. SEE STRUCTURAL FOR REINFORCING AND THICKNESSb. VERIFY SLAB ELEVATIONS WITH CIVIL AND LANDSCAPE	REVISIONS:
F2	CONCRETE - 1 HOUR RATED • 4" TOPPING SLAB • 12" HOLLOWCORE NOTES a. RATING PER 2018 IBC TABLE 721.1 b. SEE STRUCTURAL FOR REINFORCING AND THICKNESS	
F3	 WOOD OPEN WEB TRUSS - 1HR 1" GYPCRETE TOPPING 1/4" ACOUSTICAL MAT 19/32" MIN. PLYWOOD SHEATHING, TYPE 'C/D', SEE ALSO NOTE b. WOOD TRUSSES PER STRUCTURAL, REFER TO UL FOR MIN. REQS UNFACED FIBERGLASS INSULATION COMPLETELY FILLED IN CONCEALED CAVITY TO COMPLY WITH NFPA 13 CONCEALED SPACES. 25 MSG GALVANIZED RESILIENT CHANNELS, SPACED PER U.L. (1) LAYER OF 5/8" TYPE 'C' GWB PER UL NOTES: ASSEMBLY TO COMPLY WITH UL DESIGN L546 (OCT 3, 2023) STRUCTURAL SHALL SUPERCEDE IF STRUCT SHEATHING IS THICKER OR DIFFERENT TYPE THAN LISTED ABOVE. PROVIDE REQ MIN ABOVE. REFER TO UL FOR SCREW PATTERN STC TO BE MIN. 50 PER IBC CHAPTER 12, IIC TO BE EQUAL OR GREATER THAN 50 WHEN TESTED UNDER ASTM E 492. (STC 60 BASED UPON TESTING 30160-08-90744-11. IIC 52 BASED UPON TESTING 30160-08-90744-1 ASSUMING VCT FLOOR FINISH.) VERIFY GWB AND RESILIENT CHANNEL SPACING WITH INSULATION-FILLED CAVITY MIN. DEPTH OF TRUSS SHALL BE 18" WHEN DUCT PRESENT. 	ASSOCIATES P.C. ASCHITECTURE -1404 INTERIOR DESIGN ENGINEERING PLANNING CITY A ST. LOUIS A ATLANTA
R F7 F7	 WOOD 2X8 LUMBER - 1HR - CORRIDOR 1" GYPCRETE TOPPING 1/4" ACOUSTICAL MAT 1/2" SHEATHING MIN, SEE NOTE b. 2X8 WOOD JOISTS SPACED PER STRUCTURAL UNFACED FIBERGLASS INSULATION COMPLETELY FILLED IN CONCEALED CAVITY TO COMPLY WITH NFPA 13 CONCEALED SPACES. (2) LAYERS OF 5/8" TYPE 'X' GWB PER IBC NOTES: RATING FOR 2X8 DIMENSIONAL LUMBER ASSEMBLY: 2018 IBC TABLE 721.1(3) #21-1.1 & AMERICAN WOOD COUNCIL'S DCA 4 (COMPONENT ADDITIVE METHOD FOR CALCULCULATING AND DEMONSTRATING ASSEMBLY FIRE RESISTANCE) STRUCTURAL SHALL SUPERCEDE IF STRUCT SHEATHING IS THICKER OR DIFFERENT TYPE THAN LISTED ABOVE. PROVIDE REQ MIN ABOVE. 	TOSE &AS &AS 1526 Grand Boulevard Kansas City, MO 64108-140 p: 816.472.1448 w: www.rosemann.com @ 2023 Rosemann & Associates, DENVER ▲ KANSAS CITY J
R F8 DOR	 c. REFER TO IBC TABLE FOR SCREW PATTERN WOOD 2X8 LUMBER - 1HR - CORRIDOR 1" GYPCRETE TOPPING 1/4" ACOUSTICAL MAT 1/2" SHEATHING MIN, SEE NOTE b. 2X8 WOOD JOISTS SPACED PER STRUCTURAL UNFACED FIBERGLASS INSULATION COMPLETELY FILLED IN CONCEALED CAVITY TO COMPLY WITH NFPA 13 CONCEALED SPACES. (2) LAYERS OF 5/8" TYPE 'X' GWB PER IBC NOTES: RATING FOR 2X8 DIMENSIONAL LUMBER ASSEMBLY: 2018 IBC TABLE 721.1(3) #21-1.1 & AMERICAN WOOD COUNCIL'S DCA 4 (COMPONENT ADDITIVE METHOD FOR CALCULCULATING AND DEMONSTRATING ASSEMBLY FIRE RESISTANCE) STRUCTURAL SHALL SUPERCEDE IF STRUCT SHEATHING IS THICKER OR DIFFERENT TYPE THAN LISTED ABOVE. PROVIDE REQ MIN ABOVE. REFER TO IBC TABLE FOR SCREW PATTERN 	DAVID EUGENE HENDRIKSE HENDRIKSE HENDRIKSE HENDRIKSE HENDRIKSE

c. REFER TO IBC TABLE FOR SCREW PATTERN

SUITES Ш О TOWNEPI

ST AS \square DOUGI 64064 I D NORTHEAST LEE'S SUMMIT 0 ∞ **—**

SHEET TITLE

ASSEMBLIES - FLOOR/CEILING

PROJECT NUMBER: 23098

SHEET NUMBER:

G-103

UL Product iQ*				(U) Solutions	2. Welded Wire Fabric — bxb - W1.4sW1.4
it as as	f and an all states and an an an and	t a tata tana dikatat kakana			 Steel Floor and Form Units* — Composite or non-comp noncomposite galvanized units. Floted units may be uncoate
 Authorbes Having Lossdiction should be 	Systema Construction/Adams consulted in all cases as to the		venng the installation a	and use of	cellular units. The following combinations of units may be us (3) all 16-24, 26, 28 or 36 in wirle cellular
Us Certified products, equipment, system, • Authorities Having Jurisdiction should be					(7) sil floteri
 Fire repotatice assemblies and products an applicable requirements. The published re 	formation cannot always addre	ss every (onstruction ruan	to enrountered in the	field	(3) noe or two 3 in, deep, 12 in, wide, 35/18 MSG min celuia
 When field issues arise, if is recommender manufacturer native for the design. Given 	of fire resistance assemblies are	advoted to consult the ge	ners! Guidi; (nformatio	n for Mach	(4) any bland of flated and 18, 24, 26, 28, or 36 is, well cellu
product category and each group of asser methods of construction.		ndudes specifics concernin	nj siterrvite malevisis a	nd alternate	(\$) 3 in, deep 30 m wide celturar with 8-778 in, wide valley a
 Only products which bear UC's Mark are d 	onsidered Certified				in, to each ards of side joints and 1 in, above bottom of unit.
					 (6) Corrugated: 1-5/16 in: deep. 30 in: wide, 24 MSG minigat 12 in: OC, through weiding washers. For shear wire spacing a
DV/ W/ City Desistance		1011 303 Co.ef	C	4 1	 rpeater than S in OC, but less than or equal to 12 to OC, she ASC STEEL DECK, DIV OF ASC PROFILES & LC 52 to, voide Type
BXUV - Fire Resistance		/UL 263 Certi	fied for Uni	ted	Rick 364, 2044 SK, 2045 36, 2044 SK, 2044 364, 30024 36, 30 OG805 26, 48 units may be gatesized or Prices Shield Nor-relb
5\// b//7 _ E' 6 _ '_t	States	U.C. C101 C			top and bottom sections may be riveted together idesignated wit
BXUV7 - Fire Resistance See General Information for Fire-repostance Patients			tified for Ca	anada	CANAM GROUP INC 35 m wide Type P-3623, P-3606, P-3615 Types 4.58, 1.551 3.592 and 1.501.
Design Cations and Allowable Senances	Alda Balay Di Catana Ina Kasa	L.			CANANA STEEL CORD 24 in mate 2mm 1, 115 - 2 m 2 in 1/2k-
<u>See General information for the Resistance Batings is</u> Design Criteria and Abowable Variances	<u></u>	2			CANAM STEEL CORP 24 in while, Types 1-1/21, 2 or 3 in 1/08- wide, Types N-LOK and N-1/08 Cell, 24, 30 or 36 m, while, Type 1-1
	Design No. D9	16			KAM INDUSTRIES LTD, DBA CORDECK QL Types, 24 in water
Мау 16, 2023					wide GKX, GKX1, GKX-A, 36 in: wide 99, AKX, WKX, 24, 26, er 36 in wide 21: 25 or 28 in: wide UKX, 87.5 cm wide, 5/de joints of 20, 99
.	and secondly bedress and				Rean DC Side joints of 99, 4KX, WKX, GKX, GKX, A, KKX and Mel- 12x14 self dislong self tapping sterl science B6 in, CC
	ned Assembly Ratings — 3/4, [See Rems 1, 6, 7, 8 an	477 5			CHIA YEH CONSTRUCTION MAYERIAL CO LTD (4 or)6 in w
	ed Assembly Rating — 0 Hr. (strained Beam Ratings — 1, 1 (See Korrs 4, 44, 7 and	-1/2, 2 and 3 Hr.			
This design was evaluated using a load des	_	mit States Design Method		_	ESCK WEST INC 36 in wide Type 9-OW, Inverted 8-DW, SA-0 together with min 1 in long No. 12 x 14 self distang self lapang
Method). For jurisdictions employing the Lim	it States Design Method, sud Guide <u>BXUV</u> or <u>BXU</u>		Loon Factor Shall be u	260 — 755	DECKCO LLC - 35 ka. wide, Types DC 150, DC 15 Form DC 15 la DC 3 Date: DC 3 Community
* Indicates such products shall bear the UL or	-		UL or cUL Certification	on (such as	DC 3 Form, EC 3 Composite.
	Canada), respective	. .			DESIGN ASSISTANCE CONSTRUCTION SYSTEMS INC 36 inc
					EPIC METALS CORP 24 in wede Types LC250, SCP150, LC200, : Mile wide Dieu SC250
					36 in. wide Type EC266.
					HAMBRO STRUCTURAL SYSTEMS, DIV OF CARAM STEEL COR P3615x15 unds shell not exceed 250 FSF. For single spans, the nor
					and N8 gauge units, respectively. For multiple scens, 18 gauge un IPSE
					INTSEL STEEL EAST LLC 36 ct. wide Types 1 57 COMPOS/TE//L
	~	2			NAM INDUSTRIES ITD, DRA CORDECK 24 in write, Types 2 o
	<u> </u>		· • •		MARLYN STEEL DECKS INC Type 1.5 CF. 2.0 CF or 3.0 CF
<u> </u>					
	Consequences -	70	-		NEW MILLENNIUM BUILDING SYSTEMS L.E.C.— 24 (n. w)
L	6	- ₩ 4	EE ITEM (NEW MILLENNIUM BUILDING SYSTEMS 1. L.C 24 or 36 solve ASCEV ASCERT 1.5550, Extendence and Astronomy to determine and
0 0				::	3 SCDI 3.5CDR, 1 SC7O, Floted onts may be plosypainted or gale
	······································				ROOF DECK INC 36 in wede Types I.OK 1-1/2, COX 1-1/2 R, 24 (
					STEEL MASTERS INTERNATIONAL DEPENDABLE STEEL 36 a
	<u> </u> 3				VATA STEEL INTERNATIONAL MIDDLE SAST FZE 36 in wodq
Supports - 6/20 consists steel beams. Or steel [· •				VALLEY JOIST+DECK 24 or 36 in white Types WVC 3-1/2 or W
supports. Designed per 51.1. specifications for a n the 2-h or less Restrained or Unrestrained Beam R	atings, top and bottom chords	shall each consist of two as	ngles with a minitosal a	area of 6.96	and a second
and 0.77 so in,, respectively, Web mombers shall area of each of the first six imerior diagonal webs	shall be 0.406 sq in. All other in	storior webs shall have a m	ia area of 0 196 sq in P	for the 3 h	VERCO DECKING INC - A NUCOR CO FORMUCK" deck types or roll finish. Usits may be colliver or acoustical collider, with the r
Restructed or Unrestrained Beam Satings, each of in Web members shall be either mund bars or an	gles. Min area of each of the fir	st five end diagonal webs s	shall be 0.880 sq in Ali	other	may be vented or not-verted, 13 is, wide PSW2, W2, PIW3 of W5 Types N3, PUN3
interior webs shall have a mid area of P.443 sq m noncomposite poists, steel filter pieces of proper s					VICWEST INC 2ypes H6038, H6038CU, H6038-3AV, H8558-141
all top chord panel points.					Types R05930, R0593801 and R0593800 IN These Composite Ster
 Normal Weight or Lightweight Concrete — f wbrated, Lightweight concrete, expanded shalo id 	r slate oggregate by rotory-kiln	stethod, or expanded clay	aggregate by rotary-k	ila or	VUNCRAFT, DIV OF NUCCH CORP 24, 30 or 35 th, wide Types
sintered grate method, or beiletized expanded bl air	ast furnace slag aggregate, 300	0 as compressive strength	, vibrated, 4 to 7 perce	nt entrained	 SPANI PA, 2011 2 0PLVD 2VD, 2VDP 2 0PLVDP, 201PA, 2 0PLVDP4 SVL5, 2VD, 2 0PLVD, 2010 3010 3 0PLVD 2VD upits may be placed.
Restrained Assembly Rating Hr	Concrete (Type)	Concrete Unit Weight pcf	Concrete Thins in		Assembly Rating, Side joints of Type 1 5VL may be fastened toget in wide Types 1.5 S8, 7.5 S8R, 24 or 55 in wide Types 2.0 S5, 3 0 5
1	Novinal Weight	147 YSB	3.172		Spacing of welds attaching cents to copports shall be 32 in 100 to
3)/2	Normal Weight	:47-528	1		wirle and bec. 12 unds, boless noted otherwise, arlyacent unds bin willded logishin 50 km CC along side joints. For 3 Hr. Rating, uar
2	Normal Weight	(47.)\3	J-1/2		When a superimposed load of 250 FS7 is desired the sparing of w
<u>э</u>	Normai Waight	542.058	S 1/4		 For a spin of Types 2V(1) or 3V(1) on the may be lastened toget through the joint of the onits at 38 in. G. C. Alax
3/4 or 3 (See Rent 6)	ughtweight	-07-113	2-1/2		The Unrestrained Assembly flating is usual to the Ourestrained
!	sightworkght	107 120	2-5/8		 (a) 1, 1/2 m, deep, 24 or 36 in water 22 MSG or thicker listed with (b) 5, 1/2 in deep, 24 or 36 in, wide, 20 MSG or thicker listed with
1 1/2	unitariada unitariada	207-143 207-143	3		 (c) 1-1/2 in literal 24 or 36 in wide. 10 MSG or thicker flated and (c) 1-1/2 in deep. 24 or 36 in wide. 16 MSG or thicker flated and
2	oghtweight oghtweight	(07-):3 (07-):6	3 1/4*		ydi Fini aerpi Reini wizir, 58 MSG er Backes Butiel and 54 m wid
2	eghtweight	114 :20	3-1/2		4. Spray Applied Fire Resistive Materials* Applied by a in the tables below as the tables between the tables
3	rihuwedry rihuwedry	G7 :53	J-3/15		in the tables below, in the tables helder to steel hearn surface density of 15/34 pcf respectively. Min avg and non-inst densi-
3	ugitawesgint	:12.329	4.7/06		determination, refer to Design Information Section.
					Restrained Unrestrained Assembly Assembly
"for use with 2 or 3 in, site? floor and form onds only					Rating H= Rating Hr

ooste, h-172, h-575, h-13776, 2 or 3 m, doep galv units or 4-172 in, deep ed or phosobarized/painted. Min gauges are 22 MSG for fluted and 20/20 MSG for sed.

r units, alternating with 3 to ideep fighed or other reflutar.

ar.

fong side joints may be used when 378 in. Giam reinforcing bars are placed 1-172 . .

aiv units with shear wires factory welded to cleck corrugations. Welded to supports of 8 in or less the steel deck stress shall not exceed 20 KSL For shear wire spacing real dark stress shall and exceed 12 KSL (cos NH-32, NHN-32, NHF-32, 35 in, wide Types 8H-36, 5HN-36, 8HN-35, 1/4, 6HF-36, https://www.steel.shu, 3WH-36, 3WHF-36, 3WHF-360, 3W-36, 3WH-36, GG3W-36, https://www.steel.shu, 3WH-36, 3WHF-36, 3WHF-360, 3W-36, 3WH-36, GG3W-36, Subst darks may be vented designated with a 1VT suffix to the product name. Collulat dark

(h 1111) vullere apot welded 1111. Gasel 24-m welde Type P-2432 composite: 24 or 36 m wide Type 3 in. 20K-Finor 36 in wide

Floor and 10K-Poor Cell, 36 in wate, Types 2 or 3 in 1.0K-Floor and 10K-Poor Cell, 24 in 1/2 ins 8-30K and 8-30K Cell

(3 or 3 invested, UKX, UKX-3, 3 in 99, AKX 21 or 21 invested, (21, AKX, 7KX, 24 or 30 in invested, NKX, 1, SNKC, NKC, AKX, 2 or 3 in 7KC, 12 in vade noncomposite Sec. 12, 17 in 9, 323, WKX, 16X, 7KC, and Molac units - OU 77-900, OUL-78-900, may to welder together ac units - QL 77, 900 and QUC, 78, 900 may be fasterial logitabor with min 3 in storp Plo.

wide Mari Lok 3, 24 in wade CFD 3

(W) Inverted SA-IZW, 2-IZW or 3-DW, Side joints of Type 2-DW and 3-DW may be (astened) gisted screws SA in OC

werterl Compresite, DC 1.5 Inverted Form, DC 3.5 Composite, OC 2 Form, DC 2 Composite,

wide Type DACS1 5CD, or 24 in wide Type DACS2.0CD, or DACS3.0CD.

SCP300, LC366, SCP366, EC150, EC300 inventied, CCA, 30 in wide Typex LC8150, EC38150, ...

RP --- 3G in levide, 1-1/2 in Type P261SDB. The max supremycound leadings for Type - of the parts shall be traded to 5.156 m, 6.416 m, and 6.116 m, max spars. Rol the 22, 20 hts may be used on a max 7.156 m, spans with a max total superimosed leading of 249.

LOOR, 21 COMPOSITE/FLOOR, 31 COMPOSITE/FLOOR,

r 3 in 1928

ide Type Versa-Dek.

ade Types 2,000, 3,000, 2,0090, 3,0090, 3,00700,9;24, 30 or 39 or wide Types 1,500, verified

at, wide Types (OK+2, LOK+3,

wide Types 2004-30, 3009-36. Units may be phrts/painted or galeanized -

x Type ComPlot 44

MAX 2

is FLB_B_RR, FLNS, N3, FLN, N, FLW2, W2, FCW3_W3_Units may be galvenized, phosi/old... s suffix TCD1 on "CD-AC" added to the product paths, respectively. All non-robbler dock /S units may be blanded with 24 or in wate PIW2, W2, PLW3 or W3 units inspectively; or

IV. H8306-H830V: Types H85958, H3503801, and H8595802-IM Composite Steel Decks: ref Occks

(1.5V), 1.5V(1), 1.5V(1), 1.5V(1), 1.5V(1), 1.5V(1), 24 or 36 in wide types 1.5V(1)94 (a, kyr), 1.6V(2), 3V(2), 3V(2), 3 (Rev) P, 3V(1), 3 (RP) V(1P4, 7ypes, 1.5V(1), 1.5V(2), 1.5P(2)), co/plut, 24 or 36 in wide Types 2V(2), 3V(2), and(s + 4, may be used for max 2 in Resitanted ther with min, 1 in long No., 12x (a, self-childrig, self-tapping steel science, 36 in CC mex, 36 (5, 36 in wide Type High Strength 1.5 SR), 36 in wide Type Fligh Strength 1.5 SR).

iii 12, 24 and 36 in wide owns, four weids per sheet for 30 in wide owns, 6 in, CC for 18 in, instant-punctied or welded together 36 in. CC along side joints. Adjacent 18 in, wide units in with overlapping synt side joints welder! together 24 in. OC max.

velds or burron-prinches shell not exceed 24 in IDC along side joints.

her with No. 8, 374 ins long self-dolling Tels strews driven diagonally from the top side -

Beam Rateg for a may of 3 Hr, and is broited to the following upits and Smithtipss:

) clear spans not more than 7.9 S in

n dear spans not more than 8.0.8 m. 16/18 MSC or thicker cellular with clear spans not more than 9.0.19 in

la, 20/32 MSG or shower callular with clear spans not more than 13-ft 2 in

nixing with water and spraying in one or more coats to a final thickness as shown resimblish must be dean and tree of duit, loose scale and oil. Min avg and min ind ity of 19/35 pcf respectively for Type 76P and 731D. Sor method of density

	Spray App
Unrestrained	Fire Resist
8eam	Mti Thk
Rating Hr	on Beam

1	1	;	372
1.02	!	!	3/2
1 VZ	1 1/2	3.3/2	18/16
2	3	!	3/2
?	2	2	5-1746
3	1-1/2	3+1/2	33/06
3	3	1	3-971E

The Interview of Spary-Apples for Residue Materials shown in the table serve are applicable when the Interview applied to the peace. Rown Reoge edges is reduced by 3/2 that shown in the table.

Restrained Assembly Rating Hr	Unrestrained Assembly Rating Pr	Uprestrained Beam Rating Hr	Spray Applied Fire Resistive Mtl Thkns on Ream In,
!	:	7	9/16
1-1/2	1	-	ý/16
L)/2	1-1/2	1+1/2	7/8
2	1	7	9/16
2	2	2	1-5/1€
ì	1.3/2	1-4/2	7/8
3	3	3	5-3/4

The Dicknesses of Spray-Applied Fire Resistive Materials shown in the table below are applicable when the thickness applied to the beams' lower Pange edges is reduced by 1/2 that shown in the table and the beams are supporting all futed fluor or form units w/rghoverght concrete only.

Restrained Assembly Rating Hr	Unrestrained Assembly Rating Pr	Uprestrained Beam Rating Hr	Spray AppHed Fire Resistive Mtt Thkns on Ream In,
1	:	7	7/16)
1-1/2	1	1	//16+
1.0/2	1.02	3-172	3/4
2	!	7	77.055
2	2	2	:
3	1.172	1-172	3/4
3	3	3	× 9/76

Thickness applied to hearts' lower flange edge to be 1/4 is, min.

The thickness of material required on the steel joist for the various ratings are shown in the following table:

Restrained or Unrestrained Assembly Rating Kr	Unrestrained Seam Rating Hr	am Thkns on Joist	
1	1	1 7/8	
1.3/2	1.578	1 3/4	
2	2	2 1/4	
3	3	2.7/8	

GCP KOREA (NC - Types MK 6/6/85, MK 6/FD MX 6/FY, MK 64 Monokole Annussic 7

PYROK INC -- 7ype US

SOUTHWEST FIREPROOFING PRODUCTS CO - Types 4, 5, 565, 500, 5MD, 7GP, 7HD, 565, 8GD, 8MD, 9KF, 8GP, 9MD,

GCP APPLIED TECHNOLOGIES INC --- Types M& 6749, MK-66, RG, Monokote Acoustic 1

4A Alternate Spray-Applied Fire Resistive Materials⁴ — Applied by mixing with water and spraying in one or more coats to A final thickness as shown in the tables below to steel beam surfaces which must be clean and free of dist, loose scale and oit. When Futed steel deck is used the area between the steel deck and the beams top flange shall be sprayed mixing and mixind density of 10/18 ocf, respectively for Types 76P, 74D, 10S, Mixineyg and mixing density of 22/10 ocf, respectively for Types Z 106, Z-106/MY. For method of density deterministion, refer to Design Information Section

Restrained Assembly Rating Hr	Unrestrained Assembly Rating Hr	Vorestrained Boam Rating Hr	Spray Applied fire Resistivo Mtl Thkps on Beam In.
I		:	578
1-1/2	1	1	5/2
1-)/2	1-)/2	1-1/2	(d/)6
?	!	!	1/2
2	2	2	5. 1.5 ig
3	1-3/2	0.472	33) (B
3	3	3	\$ 9/16

The Inclusives of Spray-Applied File Resistive Materials shown in the table befow are applicable when the beams are subporting all tinted Boor or form uture wilkglickolgot controle only

Restrained Assembly Rating Hr	Unrestrained Assembly Rating Nr	Uprestrained Beam Rating Hr	Spray Applied Fire Resistive Mtl Tokns on Beam In.
I	-		7/16
1 1/2	1	7	6/16
1-)/2	1-1/2	1-372	3/4
2	!	:	7/16

PRINTS ISSUED 11/01/2023 - CITY SUBMITTAL

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REVISIONS:

				_
2	2	2	5	
<u>,</u>	1-3/2	1.472	J/2	
3	3	3	>-5/76	

othercoss applied to been slower Sange edge to be 1/4 in, min,

Restrained or Unrestrained Assembly Rating Hr	Unrestrained Beam Rating Hr	Type of Concrete Síab	Spray Applied Fire Resistive Mti Thkes In Joist & Bridging
1	-	NW OF CW	1.5/6
1-172	1-1/2	NW or EW	3+3/4
2		NW or tW	2 174
3		NW 64 CW	2 7/8

GCP KOREA INC - Types Z-105, Z-106/G, Z-106/IP/, Moonkote Accustic 5,

SOUTHWEST FIREPRODFING PRODUCTS CO --- Types 7GP (7HD)

GCP APPLIED FECHNOLOGIES INC ~ Types 2, 105, 2, 106, 2, 106/6, 2, 100/HY, Monokote Arbentik, 5,

48. Alternate Spray-Applied Fire Resistive Materials — Applied by mixing with water and soraying in one or more coats to a final thickness as shown in the sables below to steel beam surfaces which must be clean and bee of dot. Idose scale and out The thicknesses shown in the table below are applicable to beams supporting all fluteri fluor or form updy. Mixinavg and romined density of 40/36 pcf, inspectively. Mixinavg and mixind idensity of 40/36 pcf respectively for Types Z-146, Z-1469C and Z-146T contrachilious modure. Mixinavg and non-ond density of 50/45 pcf respectively for Types Z-156. Z-156T and Z-156PC. For density determination refer to Design Mixination Scenes.

Unrestrained Beam Rating Hr	Restrained Assembly Rating Hr	Concrete Type	Spray Applied Fire Resistive Mtl Thkns on Beam In.
1	5, 1, 377, 2	w	9.18
1.92	3, 3, 178, 2, 3	190	776
1	1, 1-1/2, Z	ew	3/1
1.3/2	1, 1, 1/2, 2, 3	٤W	I

GCP KOREA INC --- Ivon Z-145 overlighted for extende use

GCP APPLIED TECHNOLOGIES INC --- Types Z-136 Z-1467, Z14670, Z-1561, Z-1561, and Z-15610, investigated for exterior com-

5. Shear-Connector Studs — Optional — Studs 3/4 m. tham by 5 m. long, for 1-1/2 m. deep form units to 5-1/4 m. long for 6 m. deep form units, beaded type or ecowaterit per AISC specifications. Welded to the top flange of the beam through the steel form units.

6. Electrical Inserts — (Not shown) Classified as "Outlet Boxes and Fittings Classified for Fire Resistance." KAM INDUSTRIES LTD, DBA CORDECK --- Presel Inserts

For use with 2, 1/2 is, lightweight concrete repplag over QL WKX specifical units, testabled over factory punction takes in floor units, per accompanying

UL NOTES

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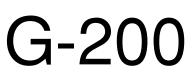
1810 NORTHEAST DOUGL LEE'S SUMMIT 64064 U

S

SHEET TITLE

UL ASSEMBLIES - D916

PROJECT NUMBER: 23098



installation instructions.

KAM INDUSTRIES UPD, DBA CORDECK ---- Tatimate 8-FS-1 -8-FS-2 School KEB

(2) Wiremold Co. --- After set loserts.

Single-service alter set essents instelled per accompanying instaliation instructions in 2-1/2 in charn hole over-diffed through min 3-1/4 in, their concrete toosing to too of zell of any min 3 m, deep cellular steel floor unit specified under Item 3. Spacing shell be no more than one insert in each 10 so It of Poor area in each spac with a min censur to center spacing of 16 m. if the high potential and low polosial receivars of the cellular steep hoor unit are separated. by a valiev filled with concrete, the conter to conter sparing of the high potential and low potential single service after set interts may be terriced to a miniof 7-122 in: Restrained Assembly Rating in 2 hr or lass with internally protected type 436 after sits invert with Type M4 . M6 - or M8 - Series single-service activation litting.

WIRENFOLD CO -- Internally protected Type 436 after set inservisib Type M4 , M6 I or M8 I Stries single service activation filling

7 Mineral and Fiber Boards* --- (Optional, not shown). Applied over concrete floor with no restriction on board thickness. When mineral and -fiber heards are used, the unrestrained beam rating shall be increased by a minimum of 4/2 be-See Mineral and Fiber Spard (CERZ) category for names of mapufacturers

8. Roof Covering Materials* — (Optional, not shown)Consisting of materials compatible with insulations described herein which provide Class A, B or C coverings. See Built-Up Roof Covering Materials in Building Materials Directory.

- 9. Insulating Concrete (not shown) Optional. Various types of insulating concrete prepared and applied in the thickness indicated: A. Vermiculite Concrete — (not shown) Optional.
- I Blend 6 to 8 cullf, of Vermiculite Aggregate* to 94 lb. Portland Cement and all emplaining agent. Min thickness of 2 in, as measured to the too surface of the structural concrete or financial plastic (them 30) when it is used.

ELASTIZELL CORP OF AMERICA SIPLAST INC

VERMICULITÉ PRODUCTS INC

2. Blend 5.5 cv. ft. of Type NVE Concrete Aggregate* or Type NVS Vermiculite Aggregate* coat, 1/8 in, shickness beneath foamed plastic (Item 10; when used, 1 m min topping thickness 5IPLAST INC

VERMICULITE PRODUCTS INC.

Verminable contreto may be covered with Sholl Covering Materials (fem 8)

8. Cellular Concrete — Roof Topping Mixture* — concentrate mixed with water and Portland cement per manufacturers specifications. Min. chievness of 2 in, as measured to the top surface of the structural concrete or formed plastic (item 104) when used. Cast day density and 25---day two contoressive strength of 195 psillas determined with ASTM C495-1166 AERIX INDUSTRIES --- Cast dry density of 37 (+ or -) 3.9 pcf.

CELCORE INC ---- Type Celtone with cast dry density of 31 (+ or + 3.0) out on Type Celtone MF with cast dry density of 30 (+ or + 3.0) out.

ELASTIZELL CORP OF AMERICA --- Type 5 Mix #1 of Last dry density 39 (-- or -13.0 µcf, Mix #2 of cash dry illonuty 40 (+ or -) 3.0 µcf, Mix #2 of cash dry denoty 47 (+ or -) 5.0 pcl.

C Cellular Concrete-Roof Topping Mixture* -- Concentrate mond with water and Portland cement per manufacturers specification: 28day ron, compressive strength of 190 psillas determined with ASTM C495-65 SIPLAST INC --- MAY NO 7 OR 2 Cast day density of 32+3 (Mix No 7) or 36(3) (Mix No 7) pd -

O Peniite Concrete — 6 cv ft. of Peniite Aggregate1 to 94 lip of Portland Cement and 1, 1/2 pt bir ontraining agent. Min. thickness 2 in be impactived to the top surface of structural concrete or foamed plastic (Item 10A) when it is used. See Perilto Aggregate (CFDX) in Fire Resistance Directory for names of menulactorers.

2. Cellular Concrete - Roof Topping Mixture* - Inam Concentrate moved with water, Portland Cement and Vil Classifiert Vermiculate Aggregate per manufacturer's application instructions. Cast dry density of 33 (+ or -) 3.0 pci and 28-day compressive strength of row 250 psi

as determined in accordance with AS1M C495-86. AERIX INDUSTRIES MARKING R

SIPLASTINC -- Mix No. 3

F Floor Topping Mixture* — (Cotional, not shown) --- Approx 4.5 gal of water to 41 lbs of INVS Premix floor topping mixture, Siurry cost 1/8. in, thickness beneath loamed plastic (here 10) when used , 1 in rain topping divideess SIPLAST INC

Floor Suppling Mixture may be covered with Built Up or Single Membrane Bool Covering.

10 Foarned Plastic* --- (optional --- Not Shown) For use only with vermiculite (Item SA) or cellular (Item 90) concretes --- Rigid polystyrene friamed plastic insulation baying slots and/or holes sundwiched between vermiculate concrete slotny which is applied to the normal or lightweight concrete surface and vermicuble incomete topping Stein 94). SIPLAST INC

VERMICULITE PRODUCTS INC

10A. Foamed Plastic* — For use only with cellular concrete. Northinal 24 by 48 on polystyteme foamed plastic involution hoards having a density of 1.0 + 0.1 pcf encapsulated within cellular concrete topping (Item 98). Each insulation board shall contain six nominal 3 in. diameter hores priented in two rows of three holes each with the holes spaced 12 in. OC, transversely and 35 in. OC congrudinally, See Searned Partief (RRYX) (alogory is Building Materials Directory of Formed Plase (ICCVW) category in Fire Resentator: Directory for ast of manufacturers.

D. Foamed Plastic* --- (Optional, not shown). Polyasequantee moltinsulation, applied over concrete Boar with no restriction on insulation. shickness. When polyshicyanurate insulation is overly the unrestrained brain rating shall be increased by a minimum of 1/2 br

12. Metal Lath — (Not Shown) -- (Required with Z-1467, Z146PC, Z-156, Z-1561 and Z-156PC, otherwise optionel) - Metal Jath may be used to facilitate the spray application of Spray-Appled Fice Resistive Materials on size! bar joist and trusses, the diamond mesh, 3/8 in. expanded steel (atb, 3.7 to 3.4 tb per solyd is secured to both sides of early steel joist with No. 18 SWG galv steet wire all joist web and bottom chord members spaced 15 in OC max. When used, the metal lathie to be fully covered with Soray Applied Fire Resistive. See Formed Plastic (CCVW) category for Sul of manufacturers -

* Indicates such products shall bear the bL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively. Last Updated on 2023-05-16

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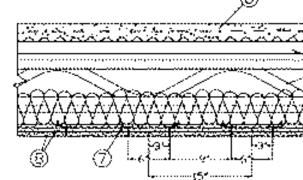
SXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for Holted States -BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada See General Information for File resistance Rations ... ANSVUE 263 Certified for Victor States

Cossign Criteria and Altowable Variances See General Information for this Reaklacing Sanays (CAN/CBC 510) Cevalted for Canada

Onsign Connola and Allowable Variations

Load Restriction - 98% (See Hern 1) 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 BXUV? * indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectivel



1. Structural Steel Members1 — (For use with joist spacing up to 24 (r. OC (Nex.) - Pre-fabricated steet joist system consisting of coldformed, galvarized steel chord and web sections, toist top and bottom chords min. 4 in, high by 1-11/16 in, wide by 18 gal toist webs min. 1.172 (a, by 1-172 in, by 20 ga, square tube bent and thangulated as shown. Chords and web connected by fillet weids. Overall joist clepth min, 12 in Non-composite joists spaced a may of 24 in CC with max, tensile strength of 30 ksi. Joist ends placed over and secured to Bearing Seats (Item 2) with two min #10 by 3/4 in Jamp screws on each side of Bearing Seats. Allowable loading must be calculated so as to stress the steel trusses to a maximum of 95% of the stress calculated in an orderice with the allowable stress design approach outlined in the -

manufacturer's load tables. EISEN GROUP LLC - Type Galeway Panel pra fabricated steril joist system.

1A Structural Steel Members* — (For use when joist spacing is greater than 24 in, OC up to max 48 in, OC) – Pro fabricated steel joist system consisting of risk lastred, galvanized steel chaid and web sections. Just top and bottom chards rain 4 in high by 1-10/16 in wide by 18 gal /bist webs min 1-1/2 in by 1-1/2 in by 20 gal square tube hent and triangulated as shown. Chords and web connected by filler webs Overall joist depth min. (2 in Non-composite joists spaced a max of 48 in OC to be designed per S8 specification with max tensile strength of 30 ksi. Joist ends placed over and secured to Bearing Spats (tem 2) with two rwn. #10 by 3/4 in. long screws on each side of Bearing Seals -Allowable loading must be calculated to as to stress the steel trusses to a reazimum of 95% of the stress calculated in accordance with the allowable stress design approach outlined in the manufacturer's load tables. EISEN GROUP LLC --- Type Gateway Panel pre-Tabricated steel prist system --

2 Bearing Seats* --- (Not Shown) --- Galvanized steel tube, and, 1 in by 2-1/2 in by 10-gal, oriented vertically and welded to a galvanized --steel plate. Rearing years spared to match prist sparing and attached to beginning supports by wolding or stress attaching the steel plate to the bearing supports

EISENF GROUP 11C --- lype Gateway Pariel bearing seas

3. Bracing — (Not Shown - for joist spacing up to 24 in: OC may.) — Galvanized channel-shaped stesi sections. min. 1-1/2 in, wide with 1/4 in. flanges, min, 16 ga, Bracing attacted to underside of trusses with min, #70 by 3/4 in, long screws through truss bottom chord. Bracing installed in trust cavities by scoring, bending and flattening the ends to form a tab for attachment to trust top and bottom chards. Two pieces of bracing crossed and tabs secured to trass chinos with min #10 by 3/4 in long screws. (ocation and spacing in underside and crossed laaring to be specified on truss engineering

3A Bracing — (Not Shown - In fee of item 3 when the joists are spaced more than 24 in. OC up to max, 48 in. OC Galvanized channelshaped steel sections, non 1-1/2 m welle with 1/2 m, long flanges, rom 16 ga. Bracing attached to underside of joists with min. A10 by 3/4 in. long screws through joist pottom chord. Bracing installed in joist cavities by scoring, bending and flatlening the ends to form a tab for altochment to joist top and bottom chords. Two pieces of bracing crossed, and tabs secured to joist chords with min. #10 by 374 in long strews. Location and spacing of underside and crossed bracing to be specified on joist engineering

4 Steel Deck --- (For joist spacing up to 24 in OC max) - Min 9/10 in ideep, 20 MSG galv corrugated fluted steel deck, mechanically fastened to joints 12 in OC. The concrete trapping thickness shall be measured to the top plane of the steel fleck.

4A Steel Deck — (Used when joist spacing is greater than 24 in OC up to 48 in OC max.) - Min. 1th deep. 26 gauge uncoated or gale. Buted or cellular steel Boor upits with no span exceeding 48 in Mechanically fastened to joists 12 in. OC. The concrete topping thickness shall be measured to the top plane of the steel deck

5. Welded Wire Fabric — (For joint spacing up to 24 in, OC max.) - Min, 6 by 6 in, W1.4 x W1.4.

SA Welded Wire Sabric — (Used in lieu of item 5 when joist spacing exceeds 24 in, DC up to 48 in, OC max) - Min, 6 by 6 in, W2.9 x W2.9.

 Normal or Lightweight Concrete ++ Normal weight concrete, carbonate or silvatous aggregate, 150 + 3 pch unit weight 3000 psi compressive strength, Lightweight concrete, expanded shale, day or slate aggregate by rotary kilo method, 117 + 3 pcl unit weight, 3000 psi compressive strength. Man thickness is 2 in, as measured to the top plane of the stre9 deck.

64 Floor Topping Mixture* — (For use as an alternate to item 6) --- Compressive strength to be 3000 psymin. Minimum thickness to be 1 true as measured from the top plane of the deck. Refer to manufacturer's instructions accompanying the material for specific mix design. MAXXON CORP --- Types Maxxon Standard and Maxxon High Strength

68. Floor Mat Materials* — (Optional) --- Not Shown --- Floor matimaterial loose laid over the crests of the steel deck. Flutes of the steel deck to be filled with Floor Toppion Mixture1 prior to the application of the Floor Mat Materials1. Refer to manufacturer's instructions regarding minemum tackness of flara teoping over early flara material MAXKON CORP --- Type Socapsulated Sound Mat

reinforremers,

Metal Latik --- (Optionzi) --- 3/8 in expanded galvanged steel diamond mesh, 3.4 ibs/soliyo loose (as) over the floor met material. Fiber Glass Reinforcement -- (Optional: Not Shown) - 2015 in thick PVC spatial new waven liberglass mesh: 0.368 lbs/sg yil icose laid over the liber man



Design/SystemaConstruction/Adsentially Usage Oscilander.

· Authorhes Having knowledge in should be consulted to all cases as to the particular requirements unversing the installation and use of

• Fire injustance asymptifies and productly are developed by the device scionetter and have been investigated by DL for compliance with applicable requirements. The published reformation cannot always address every construction means 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 named for the design. Overs of fire resistance assemblies are advased to uppeut the general Guide information for PACC product rategory and each group of assembles. The Guide Information includes specifics concerning alternate materials and alternate

Design No. G566

February 3, 2022

Restrained Assembly Rating ---- 1 and 2 Hr (See itom 8) Unrestrained Assembly Rating — 1 and 2 Hr (See item 8)

Foor Mat Reinforcement --- (Optional) - Refer to manufacturer's instructions regarding immount duckness of Boor topping for use with Boor mat

60. Floor Topping Mixture* — (For use as an alternate to item 5 or 64) --- Compressive strength to be 2500 psi min. Minimum Untkness to be 1 in, as measured from the top plane of the dack or floor matimaterial, Befer to manufacturer's instructions accompanying the material for specific mix design. An exhylene virgil acetate adhesive may be applied to the steel cleck prior to the installation of the floor topping myture. at a maximum application rate of 0.025 kbs /4². UNITED STATES GYPSUM CO --- Types (RK, USERK, CSD)

USG MERICO S A DE C V --- Types LRK_DSLKK_CSD

Floor Mat Materials* — (Optional) --- Poor matimaterial loose last over the subfloor. Refer to manufacturer's instructions regarding the minimum theokness of Poor topping over each Poor matimaterial UNITED STATES GYPSUM CO --- Types SAM, LEVELROCK IN Brand Sound Reduction Board, LEVELROCK & Brand Room Underlayment SRM-25

6D Alternate Roor Topping Mixture* — Cospessive (trength to be 3500 psimm. Minimum Seckness to be Lin, as measured from the top plane of the deck or the top plane of the Floor Mat Material*. Refer to manufacturer's instructions accompanying the material for specific mix design. An ethylene whyl acetate adhesive may be applied to the steel dock phon to the installation of the floor topping mixture at a maximum application rate of 0.025 (5s /ft²) HACKER INDUSTRIES INC --- From 145 CMD

Floor Mat Materials" — (Optional) ---- Floor matimaterial nom 5/64 in 12 mini (bick adhered to steel dack with Hacker Floor Primer, Primer to be applied to the surface of the mat poor to the placement of floor topping mixture. Floor topping thickness a min 1 in, (25 mm) over the floor met

HACKER INDUSTRIES INC --- Datker Sound-Matty

Alternate Floor Mat Materials --- (Optional) --- Floor stat material nom 1/4 in (6 mot) thick adhered to steel deck with Backer Floor Primer. Primer to be applied to the surface of the matipater to the placement of a min 3-144 in (32 arm) of face-topping mixture HACKER INDUSTRIES INC -- Dacker Sound-Match

Alternate Floor Mat Materials --- (Optional) --- Floor matimatical man 1/8 in (3 mm) thick loose lad over the steel deck. Floor topping thickness shall be a min of 3 in (25 rem). HACKER INDUSTRIES INC --- SIRM-RUL SCALL2S

Atternate Floor Mat Materials --- (Optional) --- Floor mat material norm 1/4 in (5 mm) thick loose laid over the steel deck. Floor topping chiritness shall be a men of 3 in. (25 inm). HACKEN INDUSTRIES INC --- Type FIRM-FUL SCM 250

Atternate Floor Mat Materials — (Optional) --- Floor matimaterial nom 3/8 in: (30 men) thick loose laid over the steel deck. Floor topping thickness shall be a rep of 3-1/4 in, (32 mm). HACKER INDUSTRIES INC. -- SRM 2011 SCM 400-

Alternate Floor Mat Materials — (Optional) — Floor matimaterial nom 3/4 in: 119 mm) thick loose faid over the steel deck. Floor tooping thickness shall be a rout of 0-1/2 in. (38 mm). HACKER INDUSTRIES INC. + FRM FRE SCM 750-

66. As an alternate to items 6-660

Vapor Barrier --- (Optional) - Commercial aspheli saturated felt, 2,000 av Bick.

Vapor Barrier + (Optional) - Nom 0.010 iv, thick commercial room-oried building poper

Fipish Flooring - Floor Topping Mixture* --- Min 3/4 vo. duceness of any Floor Topping Mixture beating the ID. Classification Markeng as to Fire Reprisonce See Sept. and Bool Topping Mixtures (CCO) rategory for neares of Claydied Companies Refer to the manufacturer's union ticas. accompanying the meterial and/or costact the mesufacturer's technical support for specific mix design and minimum theorems recommended for use with eligible floor matery)

Figor Mat Materials* -- (Contrins) Not Shown - Hoor and material local set over the subfoor. Refer to manufacture is instructions regarding the remainion thickness of floor topping over each floor matimateriat.

LOW & BONAR INC --- EnterSonicity by Colorest a memory of the law & Bonar group Types 125, 230–350 Pbp, 400, 400 Pbp, 750, and 750 Pbp.

Figur Mat Beinforcoment -- (Optional) - Brier to manufacturer's instructions regarding minimum thickness of flow topping for one with Figure ran

usinferenceis

Metal Late -- (Optional) -- Exceeded stee: domand mesh, 2,5 % / cq yd socse laid over foor matimaterial.

Fiberglass Mesh Reinforcement --- (Optional) --- Costed non-woven glass liber tresh grid loove laid over floor mat restensi

7. Resilient Chaptels --- (When joist special generate 24 or IOC, additional Supports for required, see item 7D) - Resilient --channels formed of 25 MSG gals steel, installed perpendicular to the steel poists. (here 1) spared 12 in OC. Channels miented opposite at base layer and face layer gyosum hoard burt joints (spaced 6 in OC) as shown in the above slustration. Chaonel splices overlapped 4 in. benearty steel joists. Channels secured to each joist with man #10 by 3/4 in long screws.

7A Furring Channels — (Not Shown - When joist specing exceeds 24 in, GC additional Supplemental Supports are required, see item 7D) — As an alternate to Item 7, hat channels min 25 MSG galvisteel min 2-575 in wide by min 7/5 in deep, installed perpendicular to the joists (kern 1), spaced a max of 12 in, OC, Two courses of channel positioned () in OC, 3 in from each end of wallboard of base layer and face layer Channel splices overlapped 4 in theneath steel paists. Channels secured to each joist with No. 38 5WG steel was double strand saddle fies Chappels find together with double strand of No. 13 SWS stret were at each end overlap.

7B. Steel Framing Members* — For the 1 Hr Rating — (When joist spacing exceeds 24 in. Of additional Supports are required, see item 7E) - As an alternate to Item 7. Marr runners rom 12 it long, spaced 48 to, OC, Hanger wires on man runners soaced max 48 in. Ends of main runners at wells to rest on wall angle or channel. Cross teos, nom 4 ft long, installed perpendicular to main runners and spaced 16 in. OC Additional crossitee required at each gypsum board and joint with builted gypsum board and joint centered between cross tees spaced 8 in OC. The main runners and crossities may be riveled or screw-attached to the wail angle or channel to facilitate the college installation. The steel framing members shall be suspended min 2 in below bottom of structural steel members,

For the 2 Mr Rating --- (When joist spacing exceeds 24 in IOC, additional Supplemental Supports are required, see item 70 - As an alternate to item 7. Main sunters nom 12 8 Jong, spaced 48 in, CC. Pacing wres on main sunters spaced max 52 in, 2pds of moin tunners at walls to rest on well angle or chempl. Costs tees, som 4-ft loog, installed perpendicular to made subservial spared 36 in IDC. Additional cross tee registed at tack gypsure board end joint with butted and joint centered between cross tres spaced 8 in: OC. The main summers and cross tress may be riveted or screw-effectued to the way angle or channel to labitize the reiding installation. The steel framing insurbers studies aspended rain 5 in below bottom of structural steel members. ARMSTRONG WORLD INDUSTRIES INC --- Type DER-8000

70 Alternate Steel Framing Members* --- For the 1 Hr Rating --- (Not Shown -- when solid spacing exceeds 24 in OC additional Supplishmental Supports are required one item 7F) --- As an alternate to bres 7. For use in corridors or monits having a measurem width - denension of 14 ft. Steel framing members consist of grid survers, lacking angle wall molding and hanger bars. Lacking angle wall molding secured to walk with steel hads or screws spaced max 24 in OC. Slots of locking angle wall motiong parallel with banger bars to be aligned. with tabbed cutouts in bottom edge of hanger bars. Ranger bars spaced max 50 in. OC and suspended with No. 12 AWG steel hanger wires spaced max 48 sh. OC. Adjoining lengths of hanger bar to overlap 12 in, and to be secured together and suspended by a shared hanger wire. A miniclearance of 1/4 in shall be meintained between the ends of the hanger bars and the walls. Grid runners cur-to-length and installed perpendicular to hanger bars and spaced max 10 in OC with additional grid moners installed B in. OC at gyosym board end joints, Grid monors parallel with walls to be spaced max 16 in frien wall. Ends of grid runners to rest no and engage slots of locking angle wall molding with a clearance of 1/8 or to 1/2 or maintained between each end of the god connected the wall. Bolls of grid runner to be captured by tablied autours in bottom edge of barger hars. ARMSTRONG WORLD INDUSTRIES INC --- Type (2/8-8000-55)

70. Supplemental Supports — (Must be used with Items 7, and Item 7A when joist spacing is greater than 24 in OC up to 48 in, OC max) -Used to provide support for the resilient channels (tem 7) and furring channels (tem 74). Supports are 3-578 in., 16 gauge or larger coldrolled track sections with 2 in legs, spaced at 12 in IGC. Each track with its legs oriented verticatly is placed on top of and perpendicular to the joist's bottom rhord and tigd to the joist with a rlooble strand of 18 SWG galvanized steel were. Additional grow furned 4 in , 16 gauge C study spaced at the end span of the track to provide respection to items 7, kers 76, and item 76. C-stud running perpendicular to the track screw atrached to the 3-5/8 in, cold rolled track as per Structural steel Member manufactureris instructions. Resilient Channel (Item 7) and the Furring Channel (Item 7A) attached to the C-slud as specified in Item 7 and Item 7A.

76 Supplemental Supports — (Must be used with items 78 and 70 when joist spacing is greater than 24 in, 00 up to 48 m. 00 max) - Used to provide support for the main runners. Supports are 3-\$78 in. 16 gauge or largier cold rolled track sections with 2 in, legs spaced at 48 in OC when used with item 76 for 1 hour rating, at 32 in OC when used with Item 76 for 2 hour rating, and at 48 in OC when used with hem 70 👘 Each track with its keys interited vertically is placed on trip of and perpendicular to the joist's bottom chard and teed to the joist with a daubte strand of 18 SWG galvanized steel wire. Steel Framing Member (bein 78) and (bein 70) hanger wire main runner connected to the Steel – Framing Member (hem 1A) and the track section

8. Gypsun: Board* — For the 1 hr. rating: One laver of nom 5/8 in thick by 48 m welle boards installed with long detension parallel to the joista. Altoched to the resilient or furring channels (Items 7 and 7A) using 1 inclong type 5 bugfed-head screws. Screws spaced a may of 8 incl OC stong butted end-joints and in the field, and 3 in, from side edges of board. For the 2 hour roung: Two layers of nom 5/8 in, thick by 48 in, PRINTS ISSUED 11/01/2023 - CITY SUBMITTAL

REVISIONS:

wide boards, installed with long dimension parallel to joists. Base layer attached to the resilient or furring channels using 3 in, long Type 5 bugie-bead screws. Screws spaced a max of 12 in. OC along butted end-joints and in the field, and 1-172 in from side edges of board. Face layer attached to the resilient or furring channels using 1.5/8 in long Type S bugle-head screws spaced 12 in. OC along butted end-joints and 12 in IOC in the field, and 3-1/2 in, and 3-1/2 in from side tages of board. Screws staggered from base layer screws. Face layer and base layer side joints nen 2,1/2 in Item joist centerline. Face layer side joints offset a minimum 24 in Ihom base layer side joints. Face layer end joints ratives a minimum 15 on from instellayer end joints CERTAINTEED GYPSUM INC --- 1ype C

UNITED STATES GYPSUM CO --- Type C

USG BORAL DRYWALL SEZ LLC --- Type C

8A Gypsum Board* — For the 1 Hr Rating — Num 5/5 in thick, 48 ps werde gypsum panels. When Stock Framing Members (stein 76) are used gypsum panels installed with long dimension perpendicutar to crossitees with side joints reptered along main ruppers and with end – joints cantered between cross tees spaced 8 in. OL. Prior to installation of the gypsum board sheets, backer strips consisting of nom 7-3/4 in. wide praces of gypsum board are to be laid atop the crossited hanges and contored over each buffed and joint location, the backer strips are to be secured to the flanges of the crossitees at opposite corners of the backer strip to prevent the backer stops from being uplyted during screw-attachment of the gypsum board sheets. Gypsum board fastened to crossitees with drywall screws spaced 1 in and 4 is, from the side joints and max δ in OC is the field of the heart. The firsterliend joints are to be setured to the facker stop with No. 10 by 1/12 in long Type . G laminating stress located 1 in from each side of the bottled end juict and spaced 1 in, and 4 m from the side joints and max 5 in 321 in the field of the board.

For the 3 Mr Rating --- Nom 5/A in which, 48 in which gapages. Which alternate Steel Franking Members* (John 72) are rood, gypsium based sheets installed with long dimension (side joints) payrendicular to the gold support with the end joints staggered axis d D and desured between grid measure which are spaced 6 in IOC. Prior to installation of the gypour board sheets, backet strips consisting of non-7-3/4 as weld by 48 in long precess of gypours. board are to be laid atop the grid rooter flances and centered over each botted and joint location. The backet strips are to be second to the flanges of the god runners at opposite corners of the backer stop to prevent the backer stops from being uplified during screw-atlachment of the gyptim board sheets, Gyppum board forecoul to grid remous with dowell screws spaced it to and 4 in. From the side joints and max 8 to CC in the Feld of the brand -The butterl earl joints are to be socured to the backer strip with No. 18 by 1-172 in long Type Glampasing screws located 1 in Fore early side of the 👘 hotted and joint and spaced 3 in and 4 in, from the side joints and max 5 in. OC in the field of the board.

For the 2 Hr Rating > New 5/8 is thick: 48 in wide gypours papers Wice Steel Framing Members (Hen 78) are used have layer instabled with long dimension temperationies to resolvent or furging chargers (kerns 7 and 7A). Gypsium parely secured with 5-174 in long Type 5 burgle-broad screws spaced 12 in OC mouth the held and the perimeter, and 1-0/2 m, from side edges of the board. Face layer installed with (ong dimension betteridicular to report or forming channels with joints offset 24 m, from base layer. Gypsum canois serviced with 3-578 in, iong Type 5 bugle-heart sciewe spaced 8 in. OC in both the field and the perimeter, and 1, 1/2 is, from side origos of the hoard. At the buts joint 5-1/2 in long Type () screws to be installed to attack face taget so have layer. Type Giscrean spaced 8 or CC and 1-1/2 in from side edges of the board -

CERTAINTEED GYPSUM INC --- 1v20 (

CSC INC --- Type (001X)

UNITED STATES GYPSUM CO -- Type C. UUK

USG BORAL DRYWALL SEZ LLC ---- Type C

8D Gypsom Soard* — For the 1 in rating, One layer of norm 5/8 in thick by 48 to wide boards installed with long dimension parallel to the joists. Attrached to the resilient or furney channels (Rems 7 and 7A) using 1 to long type S bugled-head screws. Screws spaced a max of 8 th OC stong butted sod-joints and in the field, and 3 to, from side edges of board. For the 2 hour rating: two layers of nom S78 in, thick by 48 in. wide boards, installed with long dunension parallel to joints. Base layer attached to the resilient or furning channels literus 7 and 7A) using 1 inlong Type S bugle-head screws. Screws spaced a max of 12 in, OC along putted end-joints and in the Feld, and 1-1/2 in, from side erges of Izeard, Face layer attached to she resilient or furring channels using 1.5/6 in long Type S bugle, heart screws spaced 6 in IOC along butted end joints and A in OC in the field, and 1-1/2 in, and 3-3/2 in firm side edges of heard. Screws staggered from base layer screws. Face layer and base layer vide joints min 2-1/2 in from joist centreline. Face layer vide joints offset a minimum 24 in from base layer vide joints. Face layer end joints offset a minimum 15 to from base layer end joints. UNITED STATES GYPSUM CO (2018)

CEC INC -- Type OUX

9. Batts and Blankets! — Glass fiber insufation, nominal 3-1/2 in. Thick, bearing the UE Classification Marking for Surface Burning Characteristics and/or Fire Resistance. Insulation fitted in the conceated space, draped over the resilient channel/gypsum panel ceiting

membrane. See Batts and Blankets (BKRV or BZIZ) Categories for names of Classified companies.

 Finishing System — (Not Shown) --- Vitivili day or premixed yourt 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, noni 3/32 in thick variaer plaster may be applied to the entire surface of gypsum wa9board

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

East Updated on 2022-02-03

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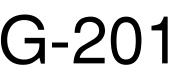
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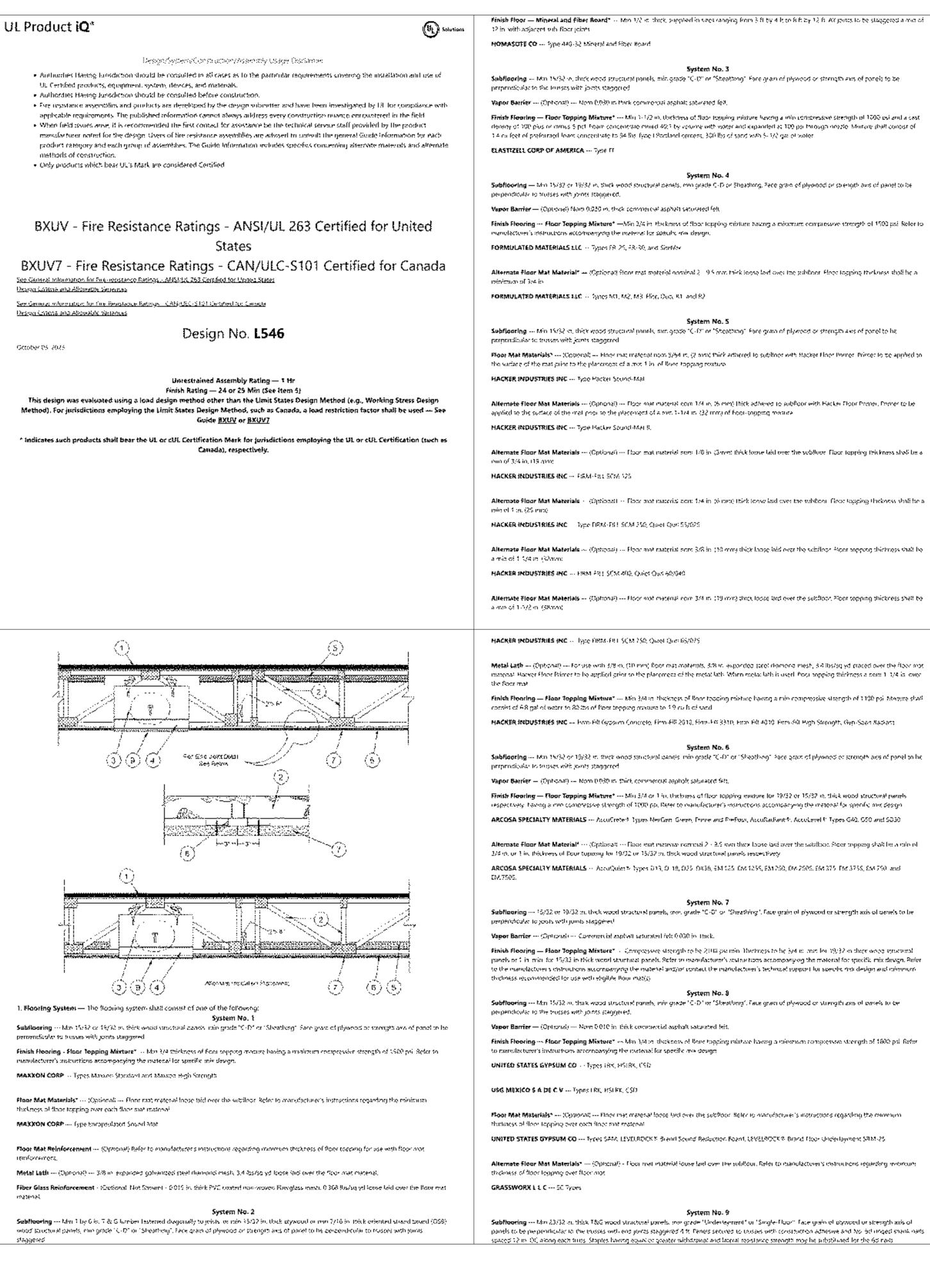
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SHEET TITLE

UL ASSEMBLIES - D916 / G566

PROJECT NUMBER: 23098





Finish Floor — Mineral and Fiber Board* --- Min 1/2 is thick puppled in szes ranging from 3-fi by 4-lt to 8-fi by 12-fi. AV joints to be staggered a role of Bypsum Board* --- Ose layer of new 5/8 in these, 4 it wide gypsum board, installed with long discession perseedminist to joints. Gypsum board services with 1 in long No. 6 Eyes W high load steel streets spaced 12 in CC and located a root of 3-3/2 in from side and end yours. The joints of the gyptical board are to be staggered a minimum of 12 inches from the joints of the subfloor. GEORGIA (PACIFIC GYPSUM U.E.C. — Type DS System No. 3 Fiber Mat Materials? --- (As an attenue to the single layer gyption board) --- Floor manimatorial loose laid over the subfloor Subflooring --- Min 19732 -n. shick wood structural panels, min grade "C-D" or "Steatbing". Face grain of plywood or strength ews of ponels to be --MAXXON CORP -- Type Encopsulated Sound Mat Finish Flooring — Roor Topping Minture* --- Min 3-3/2 in. Uprkness of floor topping mixture having a min concreasive strength of 1000 est and a cest - Gypsiam Board* --- (For use when Boar met is used) Two layers of non-578 in. (Fick, 4-h wate gyption board installed with long dimension perpendicular denergion 200 pais or minus Sipch Foam concentrate mixed 4221 by volume with water and expanded at 100 psi through involte. Movime shall consist of to joists on top of the Nacy matimaterial, Gyptum brial security to each other with 1 in long Act & Type G bugle need steel to ews spaced 12 in OC and located a min of 1-1/2 or from side and end joints. The joints of the gypoint locard are to be stoggered a minimum of 12 inches in between layers and from the joints of the sublight GEORGIA-PACIFIC GYPSUM LLC --- Type 175 System No. 4 Subflooring — Mm 15/32 or 19/32 in thick wood structural banels, min grade C+D or Sheathing, Pace grain of plywood or strength axis of panel to be System No. 10 Subflooring --- Min 15/32 or 19/32 in thick whod structural panels into grade (C-D) or "Sheattyng". Face gradiesh by pivonod or strength axis of panel to be perpendicular to trupped with solary plagated Vapor Barrier — (Optional) — Nom 0.030 in thick commercial asphalt saturated feb. Finish Flooring --- Floor Topping Minture* ---Min 2/4 in Hackness of floor topping mixture basing a minimum companies ve strength of 1592 pai Seler to Finish Flooring -- Floor Topping Minture* -- Min 2/4 or 1 in Unclasss of floor topping mixture for 19/32 or 15/32 or thick wood structural banels respectively, baking a minicompressive strength of 1000 par Refer to manufacturer's instructions accompanying the material for specific mic beign DEPENDABLE LLC --- GSL M3 4, GSL K2 6, GSL CSD, GSL RVI, and SKIMFLOW. Alternate Floor Mat Material" ---- (Optional) Story real material cominal 2 -- 9.5 mm thick isosa laid over top subfloor. Floor topping thickness sholl be a Figer Mat Materials* --- (Costenal: --- Nors. 1/4 er thick loose laid over the subiloor. Four topping thinkness shaf be a minimum of 3/4 er. REENE RUILDING PRODUCTS CO INC --- (spe Oxic) Out 55/025 and Oxic) Out 55/025 N Alternate Floor Mat Materials1 --- (Optional) --- Stoor mat moterial Nom. 3/8 in: (birk lonsa laid over the sub/loor. Floor topping thickness shall be a System No. 5 Subflooring --- Min 15/32 kt, shick wood structural panels, sub-grade 10-01 or "Steatbing". Fare grate of plywood or strength axis of panel to be meneration of 1 an REENE BUILDING PRODUCTS CO INC --- Type Open Quil 50/049 and Quilt Quil 60/049 N Free: Mat Materials? --- (Obsenal) --- Hoer material non 5/54 in, (2 mm) think adhered to subliner with Backer Floer Porner. Prime: to be applied to Alternate Floor Mat Materials* --- (Optional) --- Poor met material Nexts 3/4 in Dick Jouse laid over the soleBoor, Floor Topping (lockness shall be a monute of 1-1/2 is, KEENE BUILDING PRODUCTS CO INC --- Type Quiet Qarl 65/075, Quiet Qarl 65/075 N Alternate Floor Mat Materials --- (Optional) --- Floor material com 1.4 in. (6 mm) (bick adhered to subfloor with Hacker Floor Protein Proteinto be Alternate Floor Mat Materials" --- (Optional) --- Reor matimatical beam US in thick issue faid over the sublicer. Floor topping thekness shall be a minancep of 374 in KEENE BUILDING PRODUCTS CO INC --- Type Quiet Qurl 52/013 and Quiet Qurl 52/013 A Alternate Floor Mat Materials --- (Optional) --- floor mat material some 1/8 in (3mm) thick loove laid over the subfloor floor tepping thickness shell be a Alternate Floor Mat Materials" - (Optional) - Floor met material beam 1/4 in entangled set core with a compressive fabre attained to the testore loose bid over the subfloor. Rear topping thickness shab be a minimum of 1 in -INSERVE SUBLIDING PRODUCTS CO INC. 11 Quart Quil 55/025 MS and Quart Quil 55/025 N MT. Alternate Floor Mat Materials - (Optional) -- Floor matimaterial adm 1/4 in (6 mm) (Erklicesz lad over the subfloor Floor (opping (Erklicess shall be a System No. 11 Subflooring --- Min 15/32 or 19/32 in, thick wood structural variety, risk grade "C. D" or "Sheathing", Face grain of plywood or strength axis of panel to be perpendicular to trasses with jointy staggered. Alternate Floor Mat Materials --- (Optional) --- Poor mat restrict som 3/8 in (30 mm) ship: Loose hid over the subilition. Here suppose thickness shall be Finish Flooring - Floor Topping Mixture* — May Law thickness of Poor topping nexture having a min compressive strength of 4500 py. Refer to manufacturer's its leadions accompanying the material for specific mix design. SIKA DEUTSCHLAND GMBH --- Type 50 HOROX AP Rapid Rus System No. 12 Alternate Floor Mat Materials -- (Optional) --- Floor mat material nom 3/4 in (19 mm) thick loose laid over the subfloor. Floor topping thickness shall be Subflooring --- Min 15/32 or 19/32 in thick wood structural panels min grade 10 Of or "Sheathing", Face grain of plywood or strength axis of panel to be perpendicular to trusses with joints staggered. Vapor Barrier --- (Optional) - Commercial asphall saturated fell, 0.030 in, thick, Finish Flooring - Floor Topping Mixture" — Min 3/4 in thickness of any floor Flooring Mixture beanno the UL Classification Marking as to Metal Lath --- (Optional) --- For use with 3/8 m, (30 mm) floor matimaterials, 378 m, expended seeol floemond mesh, 34 libs/sq yd eraced over the floer mot. Fire Resistance, See Floor- and Roof-Topping Mixtures (CCOX) category for names of Classified Companies, Refer to the manufacturer's inanenal. Hacker Phot Rimer to be applied grien to the placement of the rootal laby. When rootal laby is used, Pool topping thickness a sonul 1,1/4 is lower. instructions accompanying the material and/or contact the manufacture is technical support for specific mix design and minimum thickness recommended for use with eligible foor mat(s) Finish Flooring — Floor Topping Ministerat ---- Min 3/4 to the knew of Boor topping mixture having a min compressive steerach of 1.100 psi Mague shaft Floor Mat Materials* — (Optional, Not Shown) - Floor material loope laid over the subfloor. Refer to manufacturer's instructions HACKER INDUSTRIES INC -- Ivm-Fill Gyzam Concrete, Firm-Fill 2010, Firm-Fill 2310, Firm-Fill 4030, Firm-Fill High Strength, Gyn-Span Sagary regarding the minimum thickness of floor topping over each floor mail material tow & Bonan (NC --- Encodence & by Colored a member of the Low & Bonar group System 125, 250 Plus, 460-400-400-400 Plus, 750 and 750 Plus, System No. 6 Floor Mat Reinforcement — (Optional) - Refer to manufacturor's instructions regarding minimum thickness of floor tooping for use with Subflacting -- Min 15/32 or 19/32 in thick wood structural assess min grade TC-01 or "Sheathing". Face assist of plywood or strength acts of panel to be floor mat reinforcement Metal Lath — (Optional) — Expanded steel diamond mesh, 25 lb / sq yd loose (aid over floor matimaterial). Finish Finance - Floor Topping Mixture* --- Min 3/4 or 1 in. Uncloses of floor topping motore for 19/52 or 15/37 in. thick wood structural panels respectively, having a minicompressive strength of 1000 pay Refer to nanolacturer's instructions accompanying the metonal for spenific mix design Fiberglass Mesh Reinforcoment --- (Optional) --- Coated non-woven glass ther mesh god inose laid over Poer reat material ARCOSA SPECIALTY MATERIALS --- AccuCreter* Types NewGen: Green, Emme and PreForx, AccuRationt*, AccuLevel # Types GAD, 650 and 6030 System No. 13 Subtracting — Min 15/32 or 15/32 is thick wood structural carrels, min grade (C-D) or (Steatlong), face grain of plywood or strength acts of panel to be Alternate Floor Mat Material* --- (Optional) --- Rooman material 2 + 9.5 which they hope God over the satisfact. Shere topping shall be a take of perpendicular to messes with points staggered. Vapor Barrier -- (Optional) --- Noni 0.020 in Track commences average saturated felt ARCOSA SPECIALTY MATERIALS -- AccorDates 7- Types 013; O 19; 035; 0336; EM 155; CM 1255; EM 250; CM 2505; EM 375; EM 375; EM 250; and Floor Mot Materials7 --- (Optional) -- Floor mat material loope bid over the subfloor. Refer to manufacture is instructional regarding the minimum --Unchanged of floor topping over each floor instimatersal System No. 7 GRASSWORX LLC --- SC Types Subflooring --- (5/32 or 19/32 or, thek wood structural panels, one, grade "C-O" or "Sheathing", Face grain of plywood or strength axis of cenets to be Finish Flooring* --- Min 3/4 in, thickness of any Floor Topping Mature bearing the UL Classification Marking as to Fire Resistance. See Floor- and Roof-Topping Maxwee CLEOX) category for names of Classified Companies. Refer to the anarufacturor's instructions accompanying the moterial anti/or contact The manufacturar's technical support for specific mail design and minimum thickness recommended for use with neghtle floor matin. Finish Flooring — Floor Topping Minture* - Compressive strength to be 2008 pseudin Therkneys to be 394 to control (3932 or there were structured) Floor Mat Reinforcement — (Ophonal) - flefer to manufacture is instructions regarding minimum thickness of floor topping. for use with Boot mat panels or t in min. for 15/32 in thick woorl structure) panels. Seler sumanufacturer's instructions accompanying the material for specific mix design. Beler minforcement to the manufacturer's distructions accompanying the material and/or contact the manufacturer's technical support for specific risk design and drimmorn -Metal Lable — (Optional) --- Expanded steep diamond mesh, 2.5 lb / aq ydbosse lad ovor Poor met material, System No. 8 - Fiberglass Mesh Seinforcement — (Optional) — Costed non-woven glass liber cresh grid bove laid over floor mat resterai Subflooring --- Mm 15/32 w, that wood structorel panels, minigrade "C+D" or "Sheatlang". Face gram of plywood or strength axis of panels to be System No. 14 Subflooring — 5tibflooring — Min 23/32 to these T&G wood structural potels, mon-grade "Onderlaymant" or "Single-Heer". Face grow of plywood or strength axis of paperly to be personalicular to the twister with rind joints staggered. Finish Fleering --- Floer Tepping Minture* --- Min 3/410, thekters of Bent topping mixture having a minimum complexive strength of 1800 pril Refer Fielsib Floor - Building Units" — Min 1/2 in Unick magnesium node panels installed parallel perpendicular, or diagonolly to trustes with panel adges offset a met of 4 in the between subface and magnesium oxide paoels. Bandis secured to subface with construction adhesive and correspond resistant fasteness spaced 6 is. Of accurat panel edges and 32 in OC make field of the panel Sasteners assist be planed to closer than 1/2 in learn all panel edges and no closer than 2 is, from panel corpers, HUSER ENGINEERED WOODS LLC -- Type 1/2 in and 5/8 in Square Foge Exacer 5 Goard, Type 44 in T&G. Exacer 5 Goard -Floor Mat Materials* --- (Optional) --- Floor met material loose laid over the subfloor. Beler to manufacture is instructions regarding the minimum 2. Trusses — Parallel chord trusses spaced a may of 24 in. OC fabricated from nom 2 by 4 lumber, with lumber oriented vertically or Incrizontally. Min truss depth is 12 in, when dampers are not used and 38 in, when dampers are used. Truss members secured together with UNITED STATES GYPSUM CO --- Tyces SAM, LEVELROCK & Brend Sound Reduction Roant, LEVELROCK & Brand Floor Underlayment SRM-25 min 0.036 in thick gain steel plates. Plates have 5/10 in long texts projecting perpendicular to the plate of the plate. The teeth are in pairs facing each other (made by the serie punch), forming a split tooth type plate. Each tooth has a chisel point on its ruitside edge with these points being diagonally apposete each raties for each pair. The top half of each tooth bas a twest for stiffness. The pairs are repeated on Alternate Floor Mat Materials* ---- (Optional) - Floor material loose laid over the subfloor. Refer to manufactorer's instructions regarding monomum approximately 7/8 in centers with four rows of teeth per inch of plate width -

3. Air Duct^{*} — (Optional) --- Any UI. Class 0 or Class 3 flexible air duct installed in accordance with the instructions provided by the damper manufacture.

4. Ceiling Damper^{*} — (Cotional, To be used with Air Duct Item 3) --- For use with min 28 in, deep trusses. Max nom area shall be 224 sq in Max square size stall be 18 in, by 18 in. Rectangular sizes not to exceed 324 so in, with e max with of 18 in. Max height of damper shall be **REVISIONS**:

14 m. Aggregate damper openings shall not exceed 162 sq m. cer 100 sq ft of ceiling area. Damper installed in accordance with the manufacturers installation instructions provided with the damper. A steel grille (item 9) shall be installed in accordance with installation instructions. **C&S AIR PRODUCTS** --- Model RD-521

POTTORFF -- Model CSD-521

44 Alternate Colling Damper* --- For use with min 78 in deep trusses. Max normarea shall be 196 sq in Max square size shall be 14 in by 14 in Rectangular sizes not to exceed 196 sq in with a max width of 26 in Max height of damper shall be 7 in Aggregate damper openings shall not exceed 98 sq in per 100 sq ft of ceiling area. Damper optabled in accordance with the manufacturers installation instructions provided with the damper. A steel golde (ham 9) not be exceed 144 m² shall be installed in accordance with installation instructions. **CAS Alk PRODUCYS** --- Model PD 525 Al

POTTORFE --- Model CSG-521-R1

48. Alternate Celling Damper⁴ — (Optional, To be used with Air Duct Item 3) — For use with mit 18 in, deep trusses. Makinom 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 celling area. Damper installed in accordance with the manufacturers installation instructions analyded with the damper. A steel grille (Item 9) shall be installed in accordance with installation instructions **CRS AIR PRODUCTS** — Model RD-521-IP, RD-521, NP.

POTTORFF --- Models CTD-523-3P, CFD-521-NP

40 **Alternate Ceiling Damper*** — For use with non-15 in deep trusses. Max nom-area shall be 344 (qin), with the length out to exceed 14 in and the width not to exceed 12 in. Max height of damper shall be 17-7/8 in. Aggregate damper openiogs shall not exceed 74 sqin, per 100 sq if of celling area. Damper installed in accordance with the manufacturers installation instructions provided with the damper. A steel gillse (item 9) shall be installed in accordance with installation instructions. **Cas Alk PRODUCTS** — prodet 80 523-90, R0-521 NP90

POTTOREF - Modely CED 525-90, CED 521 9049

4D. Attenate Ceiling Damper* — For use with row, 16 in deep trustes, Max, nom area shall be 349 sq in. Max, overall length and width shall not exceed 16.11/16 in by 18.11/16 in, with max, 16 in by 16 in register opening. Aggregate damper opening shall not exceed 175 sq in per 100 sq it of ceiling area. Damper installed in accordance with the manufactures installation instructions provided with the damper. An aluminum or steel golle (item 9) shall be installed in accordance with installation instructions. **MAMP TECH INC** — Model Series AcCR0, Ret, R05 or B20R0D.

Af. Alternate Celling Damper⁴ — Celling damper & fan assembly for use with row 18 m deep trusses. Max nom area shall be 75 so in, with the longth 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 so it of celling 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 elastic grille (item 6) shall be installed in accordance with installation instructions.

DELTA ELECTRONICS INC - Models CR02, GSR-CR0, FTG-CR0

4F. Alternate Ceiling Damper⁴ — For use with non-18 m, deep trusses. Max nom area shall be 324 so in. Max square size shall be 18 m by 18 in. Rectangular sizes not to exceed 324 sq in, with a max length of 20 in land a max width of 22 m. Max teight of damper shall be 14 in. Aggregate damper openings shall not exceed 154 sq in, our 100 sq II of ceiling area. Camper weakled in accordance with the manufacturer's installation instructions provided with the damper. An aluminum or stepi grille (item 9) shall be installed in accordance with installation instructions.

UNITED ENERTECH CORP -- Type C-S4R-WT of C-S/R-WTP (Maxingmiarea 324 sq. in) or C-S/R-WTS or C-S/R-WTPS (Maxingmiarea 162 sg. in)

4G. **Alternate Ceiling Damper*** — Cetting damper & fan assembly for use with min 18 in, deep trusses. Maxinom acea shall be 75 sq in, with the tength not to exceed 9-174 in, and the width not to exceed 9-374 in. Maxiheight of damper shall be 9-778 in. Aggregate damper openings shall not exceed 45 so 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 galle (item 0) shall be installed in accordance with installation instructions.

DELTA ELECTRONICS INC --- Abore (3/G-CRD

AH Alternate Ceiling Damper⁴ — Cebing diamoer & fan assembly for use with min 18 mildeep trusses. Max nom area shall be 1.31 sq in, with the tength not to exceed 11-1/18 in, and the width not to exceed 11-778 in. Aggregate damper openings shall not exceed 66 sq in, per 160 so It of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manylacturer's installation instructions provided with the damper. A plastic grille (Rem 6) shall be installed in accordance with installation

DELTA ELECTRONICS INC --- Model SMI-CRD

instructions

instructions.

4) Alternate Ceiling Damper⁴ — Ceding damper & fan assembly for use with min 18 milleep trusses. Max nom area shall he 103 sq in, with the length not to exceed 10-178 in, and the width not to exceed 10-178 in. Aggregate damper openings shall not exceed 52 sq miller 100 sq if of ceiling area. Damper shall be installed in combination with one of the fan models described in accordance with shall he manufacturer's installation instructions provided with the damper. A plastic grille (item 6) shall be installed in accordance with shallation instructions.

PANASONIC CORPORATION, PANASONIC CORPORATION OF NORTH AMERICA --- Model PC-R00505

4). Alternate Colling Damper⁴ — Coding damper & fan assembly for use with min 15 in ideep trusses. Max nom area shall be 113 op in, with the rength not to exceed 10-1/8 in, and the width not to exceed 10-1/8 in. Aggregate damper openings shall not exceed 57 squrp per 100 square fit of colling 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 (fram 0) stalle d inaccordance with installation

BROAN-NUFONELLEC --- Model ROCOWT

4K Alternate Ceiling Damper* — Ceiling damper & fan assembly for use with one 18 in deep tooses. Max non-area shall be 79 sq in with the length not to exceed 10 to and the width not to exceed 7-15/35 in. Aggregate damper openings shall not exceed 40 sq in, per 300 sq it of ceiling area. Damper shall be installed in continuation with one of the fan models described in and in accordance with the manufacturer's installation instructions provided with the damper. A metaBirt grille (dam 6) shall be installed in accordance with installation instructions. **BROAN-RUIONE L1C** — Models RDH and RDH

41. Alternate Ceiling Damper* --- Ceiling damper & for assembly for use with site 16 in deep trasses. Max non-area shall be 87 sq in with the length not to exceed 9 m and the wedth soft to exceed 9-11/16 in Aggregate damper openings shall not exceed 44 sq in per 100 sq 6 m reliesg area. Damper shall be installed in reinternation with one of the fac models described by and in arrordance with the manufacturer's installation instructions provided with the damper. A plastic große (tern 9) shall be installed in accordance with installation instructions BROAN-NUTONE ETC --- Model SDAV1

4M. Alternate Celling Damper² — Celling damper & fan assembly for use with min 18 in, deep trosses. Max nom area shall be 87 sq in, with the length not to exceed 9 in and the width not to exceed 9 11/10 in. Aggregate riamper openings shall not exceed 44 sq in par 100 sq it of celling 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 grife (box 9) shall be installed on accordance with installation instructions **BROAN-NUTONE ELC** — Model 30ANV12

4N: **Atternate Celling Damper'** — (Optional, Yo be used with Air Dust item 3) — For use with min 18 m, deep trusses. Max nom 21 m, long by 18 m, wide, fabricated from getvenized steel. Period box max size nom 21 in, long by 38 in, wide by 34 in, high inner dimension) fabricated from either getvenized steel or min 1 m, thick Listed Outt Board bearing the UE Usting Marking having a min R-Value of 4.3. Installed in accordance with the instructions provided by the manufacturer. Max damper openings not to exceed 380 so in per 100 so it of celling area.

GREENHECK FAN CORP --- Model CRO-1W7

4O. Alternate Ceiling Damper' — (Optional To be used with Air Duct item 3) — For use with min 18 in, deep trusses. Max nom 12 in long by 12 in wide with an 8 in, chameter damper, fabricated from galvanized steel, installed in accordance with the instructions provided by the manyfacturer. Max damper operatings not to exceed 72 sq in, per 100 sq ft of calling area, . GREENMECK FAN CORP — Model CED 2W1

4P. Alternate Ceiling Damper* --- (Optional To be used with Air Duck, Rem 3) -- For use with min 18 in Geep trusses, Maximum 18 in King -by 18 m wode, fabricated from galvanized steel. Installed in accordance with the instructions provided by the manufacturer. Maxidamper operangs not to exceed 162 sq in, per 100 sq from ceiling area **RUSKIN COMPANY** --- Model (2011, CE011-680-8), CE011-90-81, CE011-S1-80, CE011-86, D8, or CE011-86.

40 Alternate Celling Damper¹ — Optional. To be used with Air Duct, item 31 — For use with min 18 in deep trusses. Max 8 in, diameter damper fabricated from galvanized steel, installed to excordance with the instructions provided by the manufacturior. Max damper openings not to exceed 35 sq in [per 100 sq H of celling area RUSKIN COMPANY — Model CEDR71





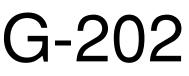


810 NORTHEAST DOUGLAS S LEE'S SUMMIT 64064 USA

SHEET TITLE

UL ASSEMBLIES - L546

PROJECT NUMBER: 23098



48. Alternate Ceiling Damper* — (Optional, to be used with Air Oucl (tem 3) For use with min 38 in, deep trusses, Max nom 33-1/8 in, long by 13-578 in, wide, fabricated from gamenized steel, installed in accordance with the instructions provided by the manufacturer. Max damper openings not to exceed 76 sq in, per 100 sq ft of ceiling area. GREENMECK FAN CORP --- Model CSD 010WT

45 Damper* --- (Optional to be used with Av Duct Hern 3) For use with min 18 in deep trusses. Maximum 12, 3/8 in long by 14, 1/2 in wide fabricated from galvanized steel. Installed in accordance with the instructions provided by Re-manufacturer. Max diamper openings ont Inexceed 90 so in, per 100 sq (t of ceding area. GREENHECK FAN CORP -- Model (PD 320W1 -

47 Alternate Ceiling Damper* -- (Optional to be used with Air Duct Item 3) For use with skin 18 in, deep trusses, Max 12 in diameter damper within max 15 in, by 35 in, register box with max 12 in 1by 12 in register opening fabricated from galvanized steel. Aggregate area of the register opening(s) through the ceiping membrane shall not exceed 72 squin, per 100 squit, of ceiling area. Damper assembly installed in accordance with the manufacturer's installation instructions. RUSKIN COMPANY --- Model CFG7T-SR

40. Alternate Ceiling Damper* - (Optional, to be used with Air Duck Iter: 3) For ose with mm 18 m. deep trusses. Maximum 20 m long by 15 m, wide by 2-776 m. high, fabricated from gasarized atex. Flerium box maximum size nons, 23 m. iong by 18 m. wide by 16 m. high fabricated from entre- gasarized steel or Classified Air Ducs Materials bearing the UC Class 0 or Class 1 rigid at rhuch material, iostafied in accordance with the instructions provided by the reactilecturer. Mex earnper openings not to exceed 180 squal par 160 sq b of reling arra-

MALOR INDUSTRIES INC --- Types 0755, 0755A, 0756, 07550, 0757D, 0757D, 0757PF, 0757DFP, 0763

SATE AIR ODWCO --- 0435 0455A, 0426, 0456D, 0457, 0457-05 0457-08 0457-08 0455-08 0457-18, 0463-68, 0463-

6/ Alternate Ceiling Damper* --- (Optional, to be used with Air Duct Bern D For use with men 16 or, deep Trusses, Maximum 10-3/8 in Tong by 10-2/8 in wide, fabricated from galvaroed steel installed in accordance with the instructions provided by the manufacturer. Max demoer openings not to exceed 54 so incipes 100 soft of ceding area.

GREENHECK FAN CORP --- Model CRD-300WT

(tem 70) ceiling membrane.

5. Barts and Blackets' --- (Optional with items 7 and 75, Required with Item 7A) --- Glass Filter or mineral word insulation bearing the UL Classification Markon as to Surface Burning Characteristics and/or Fire Resistance. When the restignt channels (item 6) or furbing channels -(Item 6A, 6O) are spaced 16 m. OC, the insulation shall be a may of 3-7/2 in thick, and shall be secured against the subflooring with stagles at 12 m. OC or herd suspended in the concealed space with 0.090 m. dram galvisteel when attached to the wood trusses at 12 m. OC. When the resilient chapters (item 6) or furning chapters (item 6A, 6O) are speced a max of 32 in, OC or when the Stear Framing Members (item 66) 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 revicealed space or draped over the resilient or turning channels (or Steel Franking Members) and gypturn panel membrane. When Steel Framing Mambers (Stora 6C) are used, max 3-372 in Posk insidetion shall be draped over the forming chaoreb (Rem 6Ca) and gypouril brand ceiling monstrare, and friction-litted between truskey and Steel Franking Members (item 504). The function rating has only been determined when the insulation is secured to the subflooring.

5A. Fiber, Sprayed? --- (Dry Dense Packed 100% Borate Formulation) --- As an elternate to (tem 5 --- When used, the resilient channel and gypsum board attachment is modified as specified in items 6 and 7 and wire mesh (item 10) shall be attached to the furring channels to facilitate installation of the material. The finished rating when Fiber, Sprayed is used has not been determined. The fiber is applied without water or adhesive at a nominal dry density of 3.5 lo/ft³ to accordance with the application instructions supplied with the product. When item SA (Riber, Sprayed) is user, two layers of rypsum board required as described in Item 7. Not evaluated for use with items 68, 60 or 60 -APPLEGATE GREENFIBER ACQUISITION LLC --- Insusmax & SANCTUARY to be used with rity application only.

58. Fiber, Sprayed* — (Loose FR 199% Borate Formulation) -- As an attendate to hems 5 and 5A -- The finished rating when Fiber, Sprayed is used basined been determined. The fiber is applied without water or adhesive at a minimum any density of 0.5 to/th² and at a may thickness of channels to facilitate installation of the material. When item SB (Siber, Sprayed) is used, two layers of gyoever board required as described in ttem 7. Not evaluated for use with items 69, 60 or 60. APPLEGATE GREENFIBER ACQUISITION ELC --- insumnax & SAACTUARY to be used with dry application only.

5C. Cavity insulation - Batts and Blankets* or Fiber, Sprayed* -- (Required for hem 7C) As described above in items 5 through 5B) --- Mon-3-1/2 in thick with no anylics matching thickness. Mired in the concealed space, draped over the replient channel (item bl/gypsium board

6. Resilient Channels -- Resilient channels, formed of 25 MSG thick gisly steel, spaced 26 in, GC percendicular to trasses. When insulation (terms 5, 5A, 58) is draped over the resilient channel/gypsom board ceiling memorane, the spacing shall be reduced to 12 in OC. Channels secured to each truss with 1-1/4 in long Type 5 bugle head steel screws. Channels overlapped 4 in lat splices Two channels spaced 6 in OC

coented opposite each gypsum board and joint as shown in the above illustration. Additional channels shall extend 5 in beyond each side edge of board.

6A Steel Framing Members" — (Not Shown) --- As an alternate to item 6 jumping channels and Steel Framing Members' as described below: a Furring Channels -- Formed of No. 25 M5G galvisteal, 2-6/26 in or 2-22/32 in wede by 7/8 in deep, spaced 10 in OC perpendicular to -trusses. When hatt insulation (kerns 5) is draped over the resilient channel/gypsum board ceiling membrane, the resilient channel sparing shall be reduced to 12 in OC. Charactly secured to training as described in Step 1). Suits of adjoining characteristic revealapped 6 in and find together with double strand of No. 78 SWG gale sleel wire near each end of overlap.

b. Steel Framing Members* — Used to attach furning channels (Rem a) to musses (Item 2), Clips spaced 48 m. OC. RSIC-1 and RSIC-1 (2.75) clos secured to alternating trusses with No. 8 x 2-1/2 is localse drywall screw through the center grommet. RSIC-SI-X secured with No. 10 x 3-1/2 in, screws, RSIC V and RSIC V (2.75) trips sociated to alternating trasses with No. 8 v 1. 1/2 in, screws drywali screw through the center hole, Furning channels are friction Rited into clips, RSIC 4, RSIC SI, X, and RSIC V clips for use with 2 SVD6 in, wide furring channels, RSIC 4 (2.75) and RSiC V (2.75) closeful use with 2.23/32 in wide furring channels. Adjoining channels are overlapped as described in Remial As an alternate, and inf adjoining channels may be overlapped 6 m, and serviced trajection with two self-tapping No. 6 framing screws, min 7/16 in long at the midpoint of the overlap, with one screw on each Banye of the channel. Additional deps required to hold furong channel that supports the gypsum board butt joints, as described in item 7.1

PAC (NTERNATIONAL | L C -- 1950) 8580-1 ROC V ROC SLX 8580 1 (275), 8580 V (275) -

68. Alternate Steel Framing Members — (Not Shown) — As an alternate to Items 6 and 64, main runners, cross tees, cross channels and waik anote as listed below.

a Main Rungers -- Nors 15 rs 15 ft tong, 15/16 in or 1-1/2 in wille face, spaced 4 ft OC. Main money suspended by mist 17 SWG galvisteel hanger wires spared 48 in IOC. Hanger wees to be located adjacent In main connectors the intersections. Ranger wires wrapped and twistbed on 166 nails driven in to side of trusses at least 5 in, above the hottom face.

b. Cross Tees or Channels — Prim 4 (Flood cross tess, with 15/16 to, or 3-172 to, wide face, or dom 4 ft long cross channels, with 1-172 to, wide face, other spaced 16 in. OC, installed perpendicular to the main runners. Additional cross tees or channels used 8 in. from each side of butted gypsum board end joints. The crossitees or channels may be rivoted or screw-attached to the wail angle or channel to facilitate the colling installation.

c. Wall Angle or Channel --- Painted or gain steel angle with 1 on legs or channel with 3 on legs, 1.9/16 on ricer) attached to wails at perimpter of ceiling with fasteners 16 in OC Trisopport steel transing members ends and for screw-attachment of the gypson panel. CGC INC -- Type DGL of RX.

USG INTERIORS LEC --- Type DGE of FX.

60 Steel Framing Members* -- (Not Shown) -- As an alternate to stems 5, 6A and 68.

a. Furring Channels — Bat-shaped furring channels, 1/8 in, deep by 2-5/8 in, wide at the base and 1-3/4 in, wide at the face, formed from No. 25 gal galvisteel, spaced max, 36 in, CC perpendicular to trusses and Cold Roked Channels (Item ECb), Furring channels secured to Cold -Rolled Channels at every intersection with a 7/2 in pain head self-diffing screw through each furring channel leg. Ends of adjoining channels overlapped 4 in and field together with two double strand No. 16 SWG galvisted wire field one at each and of overlap Supplemental hurring channels at base layer and outer layer gypsim board bett joints are not required. Batts and Blankets (kaped over hirring channels as describest in frem 5. Two layers of gyptium brand attached to forming chaonels at described in frem 7.

b. Cold Rolled Channels - 3-1/2 in, by 3/2 m, formed from No. 16 ga. galvisteel ipositioned vertically and parallels to trusces, foction-ditted into the channel caddy on the Steel Franzing Members (right 500). Adjoining lengths of cold robed channels lapped min. 5 in, and ware-tied togettier with two double strand 18 SWG galvisteel whe ties, one at each and of overtap.

c. Blocking — Where thiss design does not perind direct, full contact of the hanger blacket, a piece of nominal 2 by 4 in. Jumber (blocking), min, 6 in, long to permit full contact of the hanger bracket, to be secured vertically to the side of the truss (frem 2) at the top and bottom of the blacking at each Steel Franking Member (item 6Cd) Scration

d. Steet Framing Metabers* — Hangers spaced 48 m. CC. max along toyss, and secured to the Blocking Block 6Cc) on alternating trusses with a single 5/16 in by 2 to hex tead lag boll or four 46 1-1/4 in dryvaß strews through mounting Pole(s) on the hanger bracket. The two 1/4 in long steel teelh on the banger are embedded in the side of the blocking. Hanger positioned on blocking and leveling bott height adjuster such that futring channels are flush with bottom of trustes before gypson: board installation. Spring gauge of hanger chosen permanufacturer's instructions.

KINETICS NOISE CONTROL INC --- Type (CV).

6D. Steel Framing Members* — (Not Shown) --- As an atternate to flems 6, 6A, 65 and 6C. Fairing Channels — Formed of typ. 25 tests galvisteet, 2-878 in. wide by 7/8 in. deep. spaced 16 to. OC perpendicular to wood structural. members. When insylation, items 5 or 5A is applied over the furring channel/gypsum panel ceiling membrane, the turning channel spacing shall be reduced to 12 in OC Chauncle secured to trusses as described in item b. Ends of adjoining channels reverlapped 6 in and tied together with double strand of No. 15 AWG galvisted wire near each end of overlap-

Is Steel Framing Members* - Used to attach forming channels (them a) to tension (from 2). Clips spaced 48 on OC, and secured to the function chord of alternating trusted with two No. 8 K 2: 1/2 milliourise drywall screws, one through the hole at each end of the Gip. When insutation Homs 5 or 5A is applied over the furing channel/gypourn panel ceiling membrane, the clip spacing shall be reduced to 24 in. OC and secured to consecutive trusses. Furring channels are inction fitted into clips, Adjoining channels are overlapped as described in item a. As an adversate, ends of acijotoing chaivaels may be overlapped 6 in, and secured together with two self-tapping No. 6 framing sciews, 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 sypsum board last joints, as described in Item 7. Two layers of gyopum hoard required as described in item 7. Not evaluated for use with

KINETICS NOISE CONTROLING ---- Type Isomov

66 Steel Framing Members1 — (Optional, Not Shown) --- Used as an alternate method to attach min. 1/2 in, deep resident channels (item 6) to wood trusses (item 2). Resident channels are friction lifted into thips, and then thips are secured to the bottom chord of each wood truss with a min, 3-374 in, long Type S bugle head steel screw through the center hole of the clip and the resilient channel hange. Adjoining resilient channels are overlapped 4 in under trusses. The clip flange is append slightly to accommodate the two overlapped channels. Additional clips required to hold resilient channel that supports the gypsian brand butt joints, as described in item 7. KEENE BUILDING PRODUCTS CO INC --- Type RC Assurance.

. 61. Steel Framing Members — (Not Shown) --- As an attemate to trem 6, furring channels and Steel Framing Members* as described below. a. Furning Channels --- Formed of No. 25 MSG galvistest, 2-375 in. wide by 778 in. deep, spaced 16 in. OC perpendicular to trusses. When batt insulation (tems S) is draped over the resilient channel/gypsum poact ceiling membrane, the resilient channel spacing shall be reduced to 12 in, BC, Channels secured to avisses as described in hem to Edds of adjoining channels overlapped 6 in and field together with double strend of No. 18 SWG galvisteel whe near each end of averlap.

b. Steet Framing Members* --- Used to attach furring channels (Stein a) to trusses (Item 2) Clips spaced 46 to OC. GenieClips secured to -alternating joists with No. 8 x 7-1/2 in charse drywall screw through the righter grounded. When involation, there 5 is applied over the luming channel/gypsum papel reiting membrane. The rhp spacing shall be reduced to 24 to OC and secured to consecutive trusses. Furring channels are friction intert into thos. Adjoining channess are overlapped as described in Item a. As an alternate, ands of adjoining channels may be evenapped 6 in, and secured together with two self-tapping No. 6 framing screws, min 7/16 to, long at the midpoint of the overlap, with one screwion each frange of the channel Additional clips required to hold hirring channel that supports the gypsium board burn joints, as described in hern 7. Not evaluated for use with Hern SA or 59 PETER INC -- Type ODVECSIP

described below.

a. Furning Channels — Formed of No. 25 MSG galvistesi, 2-5/5 in, wide by 7/8 in deep, speced 16 in OC, perpendicular to trusses. When batti itsulation (tems S) is draped over the resilient channel/gypsum board ceiting membrane, the resilient channel spacing shall be reduced to 12. in, OC, Channels secured to trasses as described in hem in.

b. Steel Framing Members* --- Used to attach furring channels (item a) to trasses (item 2). Clips spaced at 46', OC and secured to the hostom of the joints with non-2 in. Charse Drywall Screw with 2 in gians washer through the renter hole. Furning channels are then friction bited into -- close Ends of channets are investopped 6° and ted together with double strand of No. 18 AWS galvanized steel were Additional close are required to huld the Gypsum Butl joints as described in item 78. STUDED BUILDING SYSTEMS - RESP MOUNT Sound tradation Clips - Type A237 or A237R -

6H. Alternate Steel Framing Members* — (Not Shown) --- As an alternate to items 6-6G, furring channels and Steel Framing Members as indescripted below.

 A Furring Channels → Formert of No. 25 MSG galvisteet, 2-172 in wide by 7/8 in deep, spaced 16 in OC, perpendicular to transes. When battle
 insulation (items 5) is draped over the resilvent channel/gypsium board cobing membrane, the resilvent channel sparing shall be induced to 12 in DC. Channels secured to trapses as described in Item b-

b. Steel Framing Members* — Used to attach furring channels (Irem a) to trusses (Item 2). Clips spaced at 481 CC and secured to the bottom of the trusses with one 2-1/2 in. Coarse Orywall Screw with 3 in, diam washer through the center hole. Furring channels are then incrion fitted implicitys, Ends of channels are overlapped 6" and ted together with double strand of No. 18 AWG galvanized steel wire Additional clips are required to hold the Gypsum Sutt joints as described in item 78

REGUPOL AMERICA -- Type Sorvers(hp)

 Resilient Channels — For Use With Item 20 - Formed from rain 25 MSG daty, steel installed perpendicular to trusses and spaced 36 in: OC. Chandels secured to each truss with 1-578 in long Type 5 bugic head steel sciews. Channels overlapped 4 in let oblices. Two channels, spaced in OC, prented apposite each gypsian panel and joint. Articitianal change's shall extend and 0 in they and each side edge of panel -Insulation Netro 5C is applied over the resilient change/gypsum panel ceiling membrane.

61. Steel Framing Members* — (Optional Not Shows) — As an alternate to Berry 6. a. Furring Channels — Formed of No. 25 M5G galvisteel, normal 2-1/2 in, wide by 7/8 in: deep, spaced as indicated in item 5, perpendicular to the trusses. Channels secured to Cold Rolled Channels at every intersection with a 3/4 in: 1±K screw through each furting channel eq. Ends of adjoining channels overlapped 12 in, and fastened together with two double strend No. 76 SWG galvisteel wire fies, one at each end of overlap, or with two B/4 in. TEk screws in each log of the overlap section. Two furring channels used at and joints of gypsum board (Item 7). each extending a min of 6 milley and both side edges of the board -

b Cold Rolled Channels ---- 3-1/7 in thy 1/2 in, formed from No. 16 on gale steel, positioned verticate and parallel to transet, histion-fitteriieto the chappel caddy on the Steel Franking Members (team 5id) and secured with two 3/4 in TEK screws. Adjoining lengthy of cold rolled channels lapped min. 12 in, and secured along bottom legs with four 3/4 in TEK screws and wite-tierl together with two double strand 18 👘 SWG galvisteel wire tres, one at each end of overlap.

c. Blocking — Where truss design does not perrort direct, full contact of the hanger bracket, a piece of pominal 2 by 4 in. (umber (blocking), min, 12 in long to permit full contact of the hanger bracket, to be secured vertically to the side of the trusses at the top and bottom of the Ibiotking at each Steel Framing Member (from 6Jd) location with 16d nails or minimum 2-1/2 in istrews.

through incunting holes on the banger bracket. PAC INTERNATIONAL LLC --- Type PSIC-SUCRC 67 Clp

6K. Steel Framing Members? --- (Not Shown) --- As an alternate to Item 6. a. Furring Channels — Formed of two, 25 MSG galvistoal, nominal 2-1/2 in, wide by 7/8 in deep, spaced as indicated in Itam 6, perpendicular to trusses and friction bt into Steel Framing Members (Item 6Kc). Ends of adjaining channels overlapped 6 in, and tied togother with double strand of No. 18 SWS gais 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 libert (item 7). But joint channels held in place by strong back channels placed upside down, on top of, and monong gespendicular to primary bicong (baceeb, extending 5 in longer theolength of gypsion (side joint, Strong hack chaonels spaced) maximum 48 in. OC. Strong back channels secured to every intersection of primary forming channels with four 7/16 in. pan bead screws, two stong 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, par head screws, two along each of the legs at interzection with strong back. - channels

b. Blocking — Where truss design does not permit direct full contact of the banger bracket, a piece of nominal 2 by 4 in, tumber (blocking), min-12 in long to percent full contact of the banger bracket, to be secured vertically to the side of the transies at the top and bottom of the blocking at each Steel Framing Member (Item 6Kc) but ation with 16d sails or monimum 2-1/2 in screws.

c. Steel Framing Members* — Used to attach furning channels (item 5Ka) to tousses. Clips spaced 48 in. OC and secured along touss webs at each furring channel intersection with men. 374 in. long self-dolling #10 x 1-1/2 in. screws through each of the provided hole locations. Furring chaonets are friction fitted into clips. PAC INTERNATIONAL LLC - Typic RSIC ST & fibra

- 61. Steel Framing Members* --- (Continual - Not Shown) --- Good to attach replicent channels (Hern 6) to trasses (hern 2). Clost spaced 46 (a. OC and argument to trasses with one No. 8 x 2-1/2 in loarse drywalk strow through center grommet hole. Channels served to dips with one #10 • 1/2 in, pap-head self-drilling screw. Edds of adjinning channels overlapped 6 in, and secured together with two #6.15 x 1/2 in. Philips Mudified screws spaced 2-372 or from the revier of the riverap. Gypsum buant but joints require additional resident channels spaced 1-377 in, from the buttyoint on either side. One edge of the extra chaonels will extend to an adjacent truss where it is secured with a clip. KEENE BUILDING PRODUCTS CO INC - Type RC (Agreement Org.)

6M Steel Framing Members* — (Optional, Not Showa) --- 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 24 in O.C. Channel ends lighted and contered under the structural members and attached with one accessory at each and. Additional accessories used to hold resilient channels that support the typisum board end joints. The accessory envelops the disconting edge of the resilient channel. The accessory and resilient chandel are fastened to the structural members with the screws supplied with the accessory and per the accessory menufacturers installation instructions, Gypsum Board butt joints staggered minimum 24 to, OC and Gypsum Board scieves spaced 8 to OC when used.

6G Alternate Steel Framing Members* — (NoI Shuwn) --- As an abernate to items 6-6F, furning channels and Steel Framing Members as

-d. Steel Francing Members1 --- Spaced 48 in ICC max along truss, and secured to the tops on alternating trusses with two, VSC x 2 in screws.

PAC INTERMATIONAL LLC -- Type R0-3 Roost

6N. Resilient Channels — For use with American Gypsum Co. Type AG-C gypsum board only. Resilient channels, formed of 25 MSG thick galvisteal, spaced 10 in. OC perpendicular to trusses, When insulation (Items 5, 5A, 5B) is appued over the resident channel/gypsum board reiling membrane, the spacing may remain at 36 m, DC. Channels secured to each truss with 1-374 in Jong Type 5 bugle boad steel screws -Channels overlapped 4 is, at spices. Two channels, spaced 6 in OC objected coprosite each gypsion board and joint as shown in the above -Bustration, Additional chapters shall extend 6 in beyond each side edge of briand

60 Steel Framing Members" — (Optional, Not Shown, As an attempte to Bern 61 --- Eurong divenants and Steel Framing Members as described below

a. Furting Channels — Formed of No. 23 MSG galvisee/, 2-23/32 is, wide by 7/8 in, When there is no insulation installed in the concealed space. the furting channels are spaced 24 vp. OU may perpendicular to thisses, When vasilation (them Stills served) to the underside of the subface the faming shaansh are spaced 12 in OC max. Chappels accured to travers as described in Perm 60h, Ends of adjoining chappels are evenlapped 6 in and ted together with double strand of No. 18 SWG gab steel wire new each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in and copiled tougher with two set-factoring 45 framma screws, min 7/16 in, long at the involution of the overlap, with one screw on each flange of me chennel. Additional clips required to hold furring chennel that supports the weilboard burt joints, as described in Item 7,

b. Steel Framing Members* — Used to attack loring channels (item 80a) to trusses (item 2). Clops spaced 45 in. OC max with No. 8 + 2-1/2 in. course drywell screw through the center grammet. Forming channels are friction litted into clips,

CLARKOLETRICH BUILDING SYSTEMS --- Type ClarkDietrich Sound Clips

67. Steel Framing Members* -- (Optional, Not Shown) -- (Sed as an attendate method to attach resilient chaonets (terms 6 and 6); to structural members. A resilient sound isplation accessory shall be used at each anazhment point of the replient channes and spaced 16 in IO.C. Channel ends butterli and contered under the structural members and attached with one accessory at each end. Additional accessores used to hold resilient channels that support the gypsium board and joints. The accessory envelops the recursion adge of the resilient channel. The accessory and resilient channel are lastered to the structural members with the 2in screws supplied with the accessory and per the accessory manufacture's installation instructions. Gyosum Board -bottycints staggered minimum 24 m. OC and Gypsum Board screws spaced 8 m. OC when used

PAC INTERNATIONALL' L C ---- Type RC-3 Boost

CQ: Steel Framing Members1 --- (Not Shearn) --- As an alternate to item 6t Genrig channels and Steel Framing Members1 av described below.

a Farring Channels -- Formed of No. 25 MSG gas seed 2 9/36 in or 2 (3/32 in white by 7/6 in deep spaced 16 in OC perpendicular to resists -When batt costilation (items 5) is draped over the resilient channel/gypsion boast colling membrane, the resilient shapped shall be reduced to 32 in, OC, Channels second to trosses as described in here b. Ends of adjoining channets overlapped 6 m, and tied together with double strand of No. 18 SWG galy steel whe rear each end of overlap.

b. Steel Framing Members1 --- Used to attech formig charmets (item at to trusses (item 2), Class spaced 45 m. OC (RSIC+1 and RSIC+1 (2.75) class -secored to alternating trustee with No. 8 x 2-3/2 m, coarse physial screw through the center procented SSIC-SSIX secored with No. 10 \pm 3-3/2 m, \pm screws, RSIC-1, and RSIC-5-2, objector use with 2-0/16 in write forming channels. RSIC-1 (2-75) objector use with 2-28/32 in, write forming channels. Adjoining chaptels are evolvagged as described in terma. As an adjointing, ends of adjoining chapters may be overlagged 6 in and secured channel. Additional dips required to including chemist that succents the gypsum basid butt joints, as described to Nem 7.

PAC INFERNATIONAL LLC - Byzen BSRC 1, BSRC SLX, BSRC 1 (2,75), RSRC SLX

6R. Steel Framing Members' — (Optional, Not Shown) --- As an alternate to Item 6.

a. Furring Channels --- Formed of No. 25 MSG galvistref incrimital 2-1/2 is, write by 7/8 millibers, spaced as industed in Rem 6, perpendicular to the trasses. Channels secured to Cold Soliad Channels & every intersection with 2 0/4 in TEX screw Uvrough each forming channel leg. Ends of arljinining channels overlapped 12 in and fastened together with two double strand No. 18 SWG gala stoel wire lies, one at each end of overlap, or with two 3/4 in TER screws in each leg of the overlap service. (We furing chemick used all end joints of gypsium hours (Hem I), each executing a min of 5 zr, beyond both side edges of the board

h Cold Rolled Channels --- 1-1/2 in hy 1/2 in, formed from No. 16 gal galy steel, postioned vertically and certailed to truspos, friction filted into -the charged captor be the Meet Statting Members (Den) R(d) and serviced with two 3/4 in 70% screws. Adjoining lengths of cold rollow chargeds lapped man 12 in and sourced along boston legs with lour 3/4 to TER screws and wire field together with two double strand 16 SWG palvisteel wire fies, one at each end of overlap -

e Biocking — Where trues design does not permit direct. Full context of the hanger bracket, a piece of rearrant 2 by 4 in Jumber (blocking), min – -32 in, long to beand full contact of the hanger bracket, to be secured vertically to the orde of the muses at the top and bottom of the blocking at

each Steel Franzing Member (Item 678) location with 194 bads of minimum 2-1/2 in screws

d. Steel Framing Memberst --- Spaced 48 in OC, max along truss and secured to the truss on alternating trusses with two A10 x 2m, screws through mounting poles on the banger bracket.

PAC INTERNATIONAL L C --- 1/30 RSIC (SI-CRC FZ C6p)

65. Steel Framing Members1 ···· (Not Shown) ··· As an alternate to them 61.

a Surring Channels --- Formed of No. 25 MSS galv seel inormolal 2, 1/2 is welle by 7/8 in these, sparad as indicated in Item 6, perpendicular to trosses and friction fit into Steel Francing Members (Hem FKr). Finds of adjoining chapteris overlapped G in land field together with double strand of -No. 18 SWG galvisteet were near each end of overlap to with two FEK screws storp each leg of the 6 in loverlap. Two furring channels used at end joints of gyrstein board (tern 7). Batt joint channels held in place by strong back channels blaced opaide down on top of, and running perpendicular to comery futting channels, extending 5 in longer then length of gypeum side inicil. Strong back rhanners spoced maximum 48 in -CC. Strong book characts secured to every intersection of permany furting cheannels with four 7/16 in, can bead screws, two along each of the legal

an intersections. But joint change's run perpendicular to strong back chansels and shall be micurrup G in longer than length of yant, secured to strong back charme's with 7/10 m, are meet screws, two slong each of the legs at intersection with strong back charme's. h Biocking — When lons design does not pensit direct, full contact of she banger bracket, a prote of exercise 2 by 4 in Juzober (blocking) min –

12 in long to be not full contact of the hanger bracket, to be serviced vertically to the side of the trusses at the top and bottom of the blocking at i reach Steel Franking Member (Item 6Kc) focation with TEC mats or minimum 2-172 in science

e Steel Framing Members1 --- Used to attach forming charmels drem öKat to provers. Claps spacied 48 or IGC and secured along treas webs at each farring cleaned intersection with min 5/4 milliong sets drilling A10 x 2 m, science Prenaglineaction the provident hole locations. Forming chappels are frequentitied into cluss.

PAC INTERNATIONAL LEC --- Type RS(C(S)) -> Otra-

7. Gypsum Board* — Nom 5/8 to thick, 48 to, wide gypsum board. When resilient channels (item 6) are used, gypsum board tostalleri with long dimension percendicular to resident channels. Gypsum board secured with 1 in, long Type S buglis head screws spaced 12 m. 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 batt insulation (item 5) is theped over the readient channel/gyosum board ceiling membrane, screws spacing shall be 8 in. OC. When Steel Framing Members* (Item 6A, 6F, 6C) are used, gypsym heard installed with long dimension perpendicular to furring channels and side joints of sheet idrated boneath joists. Gyowen board secured to buring rhannels with 1 in Yong Type 5 bugle head screws spaced 12 in 100 in the field. Butterf end joints shall be staggered now 2 it within the assembly, and not unbetween the continuous furting channels. All butted end 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 6 in, on each end, the two forming chancels shall be spaced approximately 5-1/2 in. OC and be attached to underside of the joist with one clip at each end of the channel. Screw spacing along the end joint shall be 8 m. OC.

When Steel Framing Members (from 60 are used norm 5/8 or theory 4 it wide gyptice could immailed as developed or them 7. Adjusted background background staggered minenaat 48 in OC.

When Stock Framing Members (Horn 6K) are used norm 5/8 in Hyck, 4 ft wide gypours brand installed as described to Bern 7, Bull joints staggared neintinum 24 in IOC

AMERICAN GYPSUM CO -- Type AG C

CGC INC --- Types C. 19 X2, IPC-AB

CERTAINTEED GVPSUM INC --- Type USEC-C/A

GEORGIA-PACIFIC GYPSUM 1 L C --- Types S (DAPC, 70-0)

PASCO BINEDING PRODUCTS & L.C., DEA PABCO GYPSUM --- Type C.

UNITED STATES GYPSUM CO --- Types C, P X2 (PC-AE)

USG BORAL DRYWALL SEZ LLC - Type C

USG MEXICO \$ A DE C V --- Types C (P X2, 48C AS)

7B. Gypsem Board* — Nom 5/8 in thick, 46 in write gypsern parels. When resident channels (Item 6) are used, gypsern panels installed with long dimension perpendicular to resilient channels. Gypsum panels secured with 1 in, long Type 5 bugle head steet screws spaced 12 in, OC and located a min of 1/2 in. from side joints and 3 (a, from the end joints, When insulation (terms 5 or SA) is applied over the resilient channel/ovpsum panel ceiling membrane screw spacing shall be reduced to 8 in, OC, End joints secured to both resilient channels as shown in end joint detail. When Steel Framing Members (Item 6A, 6O) are used, gypsum panels installed with long dimensions perpendicular to furring channels, Pane's attached to the furring channels using 1 in long Type 5 bugic head steel screws spaced 6 in IOC along butted and joints and in the held of the panel. Safed end joints shak be staggered min 2. It within the assentially, and record midway between the communus furring channels. Each and of each gypsom panel shall be supported by a single length of furring channel equal to the width of the gypsum panel plus 5 in, on each end. The two support furning channels shall be spaced approximately 3-172 in, DC, and he attached to 👘 underside of the truss with one clip at each end of the channel. When Steel Framing Membersh (item SS) are used, gypsom panels installed with long climension perpendicular to cross teos with side joints centered along main runners and end joints centered along cross lees. Panels fastened to crossitees with 1 vp. long Type S bugle-head screws spaced in the field and 8 in. OC along end joints, Panels isstened to main runners with 1 in Jong . Type 5 bugie-head screws spaced inidway between crossifies. Screws along sides and ends of panels spaced 3/8 to --1/2 in from panel odge. End joints of panels shall be staggered with spacing between joints on adjocent panels not less than 4.3 th QC. When Fiber, Sprayed (terns 5A or 50) is used, two layers of non-5/8 in thick, 4 ft wide gypsum board are installed web long dimensions perpendicular to furring channels. Base layer gypsum bhard second with 1 in long Type 3 hugle head sheet screws spaced 12 in. (X) and located a run of 1/2 in from ade joints and 8 in. From the end joints, End joints secured to both resplicht channels as shown in end joint retail. Outer layer gypeum board secured with 1-5/8 in long Type 5 bugits head steel screws spaced 12 in. OC and located a roin of 1/2 in. from ode joints and 3 in from the end joints. Deter layer shall be finished as described in from 8. When both Steel Framing Members (Rem 64) and Fiber, Sprayed (homs SA or SB) are used, hurring channels spaced 12 (n. OC and two layers of norm Sy8 (n. shick, 4 ft wide gypsium board are installed with long dynamics perpendicular to furring channels. Save layer secured to furring channels with non-1 in-long Type 5 bugle bad screws spaced 8 m. OC along Instant and joints and in the held of the board. Setted and prints shall be staggered run, 2 B within the assembly, and occur rectively between the continuous futning channels. Each end of each gypsum board shall be supported by a single length of furring chaonel equal to the width of the gypsum board plus 6 in. on each sod, the two support furring channels shall be spaced approximately 3-172 in. OC, and be attached to the underside of the truss with one clip at each ecd of the channel. Outer layer secured to funing channels using 1 S/8 m, long Type 5 screws spaced 8 in, CC and 3-1/2 in from the end joint Butted end joints to be offset a min of 6 in, from base layer and joints. Bured side joints of other layer to be offset mini 28 in, from burted side joints of base layer. When Steel Framing Members (item 6C) are used, two layers of nam 5/6 in, thick, 4 is wide gyasum board are installed with long dimensions perpendicular to furnisg channels (from 6Ca). Base tager attached to the forming channels using 1 in long Type S hugte head steel screws spaced 8 in IOC along butted and joints and 12 in IOC in the field of the board. Butted and joints centered to the continuous forming channels. Butted base layer end joints to be offset a min of 16 m. in adjacent courses. Outer layer attached to the furring chaonels using 1-5/8 m. long Type S bugle head steel screws spaced 8 in OC at buffed 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 burted and joints of base layer, Butted side joints of outer layer to be offset public, from butted side joints of base layer. When Steel Framing Members (item 60) are used, two layers of nom 5/8 in, thick, 4 ft wide bypeum board are installed with long rimensions perpendicular to furring channels. Base layer attached to the furring changels using 1 in long Type S 👘 bugie-bead steel strews spaced 12 in OC in the field of the board. Batted end points shall be stargered min 2 ft, within the assembly, and occur midway between the continuous furming channels. Each of each gypsum board shall be supported by a single length of furring channel equal to the width of the gypsum board plus 6 to lob each end. The two facting channels shall be spaced approximately 4 to IOC, and be attached to underside of the truss with one (somax clip at each end of the channel, Screw spacing along the gypsum board butt joint shall Le & in, GC, Outer layer attached to the furning channels using 1-578 in. long Type 5 bugle-head steel screws spaced 12 in, GC in the Feld, The end of the outer layer boards at the birt joint shall be attached to the base layer boards with 1, \$78 in Jong Type G screws spaced 6 in, DC 👘 and 1-1/2 in from the end joint. Butted and joints to be offset a min of 8 in from base layer and joints. Butted age joints of outer layer to be offset min 18 in from butted side joints of base layer. Outer layer shall be finished as described in Item 6. When Steel Framing Members (tem 6F) are used, two layers of nem 5/8 in thick, 4 ft wide are installed with long dimensions perpendicular to furring channely. Gypouri board secored to furning channels using 1 in Jung No. 6 Type 5 hugle-head steet strews spaced 12 in ICC in the field of the board. Butted end joints shall be staggered minimum 2-ft, within the assombly Additional furing channels constructed as por item 6F shall be used to support. each end of each gypsum board. Phose additional furring channels shall be attached to underside of the trues with Gonio clips as described in ttem 64. Screw specing along the gypsum board burt joint shell be 8 m. DC. Outer layer atteched to the furring channels using 1-678 m. brig -No. 6 Type Sibuale-head steel screws spaced 12 in OC in the field. The outer laver boards at the burt joint shall be attached to the base layer. bounds with No. 10.3 -172 in long drywall screws spaced 8 in OC and 3-172 in from the end joint. Rupert end joints to be offset a new of 24 er from båse løyer end jorets. Butterl side joiets of enter løyer tri he offset min 🔅 in from butterl side joiets of have løyer. When Storef Framing Members (item 65) are used, one layer of nom 5/5 in. Ibirk, 4 toware gypsom board is restalled with long dimensions perpendicular to furring channels. Gyptum board secured to furring channels with nom 1 in, long 1ype 5 bugle-head steel screws spaced 8 in: OC in the field of the locard. Gypsum board butted and joints shall be staggared minimum 48 in, and contared over main furiting channels. At the gypsum 👘 liceard butt joints, each and of each gypsum beard 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 gypsom board butt joint and along both additional channels shall be 8 to. OC. Additional screws shall be placed in the adjacent section of coard into the aforementioned 3 in, extension of the extre buff joint channels as well as into the main changei the) runs betwee Buth joint furring channels shall be attached with one RESUMCUNF Sound Isolation Ckp at each end of the channel When Steef Framing Members (Hern 69) are used, one layer of norm 5/5 in thick of It wide grasser based is ristalled with long dimensions percenduction to furring channels. Gypsum toerd secured to furring channels with nom 1 in long Type 5 bugle-lised steer sciens specod 8 in. (X) in the field of the heard Synam beam putted continuing stab be staggered randows 48 in and repleted over main lutting channels. At the gypsium heard butt pints an additional single length of latency channel shall be installed and be spaced approximately 3 in from the built joint 6 in from the continuous farong chaonish; to support the floating end of the gypsim board. Each of these shorter sections of funding chaonel shall extend one truss beyond the width of

the gyption panel and be attached to the adjacent tosses with one SphosCop at every toos involved with the bart joint

CERTAINTEED GYPSUM INC ---- Type C

CGC SNC -- Rypes C, 19 X2, 19C A8

CERTAINTEED GYPSUM INC --- Type (GSC-C)A

GEORGIA-PACIFIC GYPSUM & L C --- Bynes 5, DAPC, FG-C

PABCO BUILDING PRODUCTS & L.C. DBA PABCO GYPSUM --- Type C.

UNITED STATES GYPSUM CO --- Types C. P. X2 (PC-AR)

USG BORAL DRYWALL SFZ LLC --- Type C

USG MEXICO S A DE C V --- Bypes C (P-X3, (PC-A8))

70. Sypsum Board* --- (As an alternative to items 7 and 78. For use with items 50 and 60. --- Norm 5/8 in, thick: 48 in, wede gypsian board. installed and secured as described in Herris 7 and 76 but with max screw specing 6 in OC. When used with myshion (Betts and Blackets) in Fiber Sprayed") that is installed over the resident channel/Sypsum Board" reiking membrane, the resilient channels may remain at 15 in. OC – and pot beed to be reduced to 32 in. OC. CGC INC --- Type (BDX)

UNITED STATES GYPSUM CO --- OCX

7D. Gypsum Board* — (As an ademazine to items 7, 7A, 7B and 7C) --- For use when no involution is used. Norn 578 m, these 48 in, wide gypsum board, -installed as described in item 7 with resilient channels (4em 6) spaced 24 in OC

AMERICAN GYPSUM CO - Type AG C

8 Finishing System --- (Not Shown) --- Vinyl, dry or promixed joint compound, applied in two coars to joints and screw-heads. Noti 3 in -wide paper tapo unbedded in first layer of compound over all joints. As an alternate, nom 3/33 in thick veneer plaster may be applied to the entire surface of gypsum board

9 Grille — Griße, installed is accordance with the installation instructions provided with the ceiling damper.

10. Wire Mesh — (Not Showe) -- For use with Item SA and S8 --- 1 in. 20 gauge galvanized positry netting installed between the furing chappels and gypsum board. The poulity searing is attached with washers and 1/2 in, wafer head screws, spaced 24 in, OC,, to the fulling channels. The Fiber, Sprayed (from 5A or 58) is installed through out-openings in the poultry netting, in the tween proses. The out-openings in the coultry netting shall be stoggered at a maximum of 6 ft -

* Indicates such products shall bear the BL or CBL Contification Mark for jurisdictions employing the BL or CBL Contification (such as Canada), respectively. Last Updated on 2023-10-03

The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UC

REVISIONS:

emant & ASSOC Ċ 404 היישיט 64108-ס \bigcirc Bou MO \bigcirc City, 172.

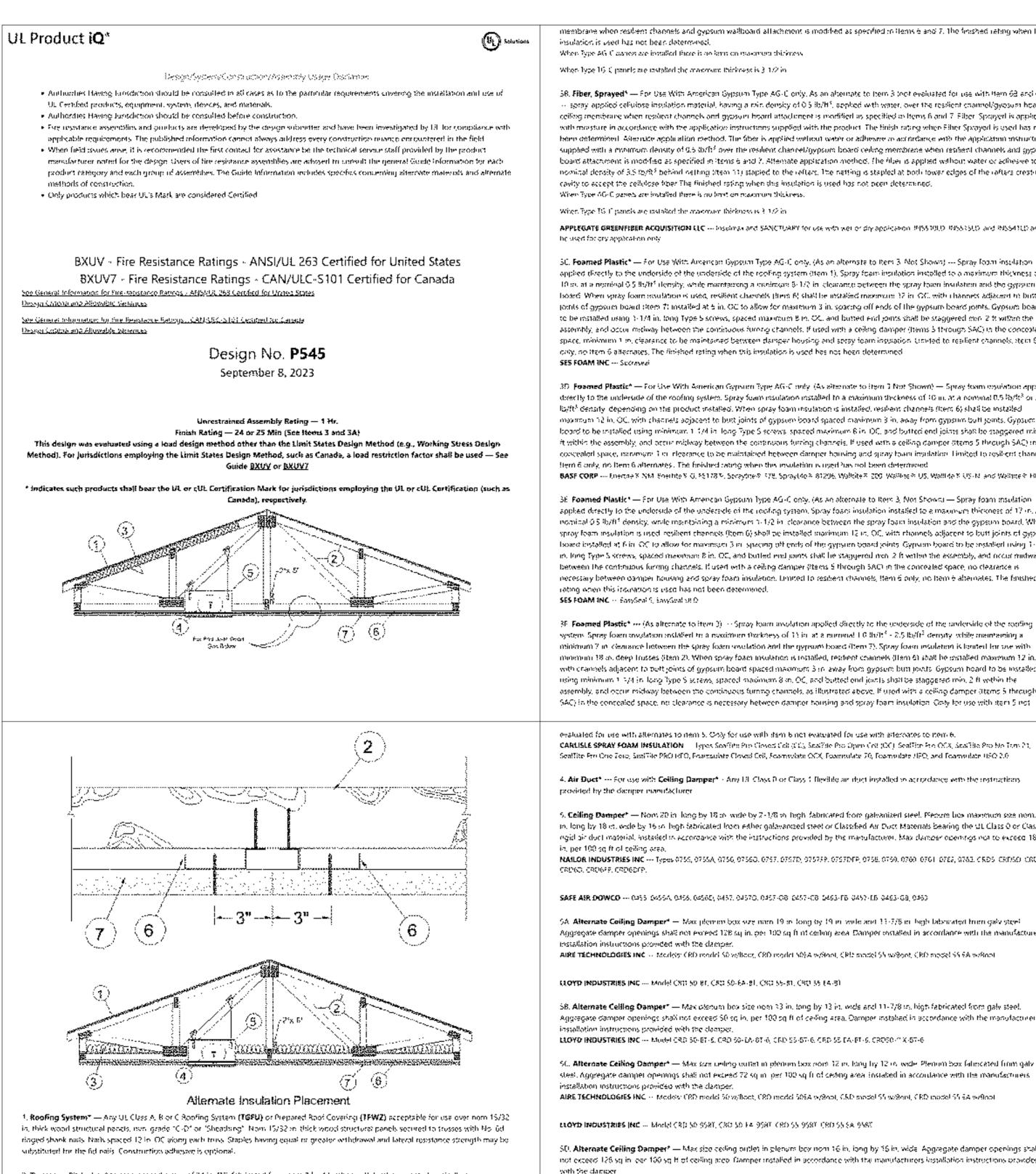


S SUITE ပ ပ န DOU 6406 \bigcirc RTHEAST SUMMIT Ā TOWNE NOR: EE'S 810 LI

SHEET TITLE

UL ASSEMBLIES - L546

PROJECT NUMBER: 23098



2. Trusses — Pitch chord trussed, spaced a max of 24 in IOC, fabricated from nom 7 by 4 tumber, with tumber mented vertically or horizontally. Trust members secured together min.0.0356 in thick galvisteel plates. Plates have 5/15 in, long teeth projecting perpendicular to the plane of the plane. The teeth are in pairs facing each other (marte by the same punch), forming a split south type plane. Each south has a chisel point on its outside edge. These points are diagonally apposite 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 jour rows of teach per inch of place width. Whole the truss intersects with the interior face of the exterior walks, the mini truss depth shail be 5-1/4 in and a mini average depth of 18 in . Where the truss intersects with the interior bace of the exterior walls, the mini trust rlepth may be reduced to 3 in id the hatts and blankots (Item 3) are used as shown in the shove illustration (Alternate Insulation Placement) and are firmly packed against the intersection of the bottom chierds and the physiond sheatbing. Mith roof slope of 3/32 unless American Gypsum boards are used, in which case there is no minimum slope -

3. Balts and Blankets' ---- (Optional) ---- Glass liber insulation, secured to the wood structural panels with staples spaced 12 in. OC or to the trusses with 0.000 in, diamigaly steel wires soared 12 in, OC. Any glass fiber insulation bearing the UC Classification Marking as to Surface -Surring Characteristics and/or Fire Resistance, having a minidensity of 0.5 (x). As an option, the insulation may be httpd in the concealed space, ricaped over the resilient channel/gypsium wallboard colling membrane when resilient channels and gypsium wallboard amachment is modified as specified in florus 6 and 7. The Smith Bating is 24 min, when the insulation is draped river the rosibent channels and gypoint -I soard ceiling mensbrane and 75 min, when it is installed on underside in the physicol deck or when this origited -When Type AG-C panels are installed there is no limit on maximum thickness.

When Type TG+C panels are installed the memory in thickness is 0+1/2 in -

3A Loose Fill Material* — As an alternate to Item 3 --- Loose (# material bearing the US Classification Marking for Surface Burning --Characteristics, having a minidensity of 0.5 pct, litted to the concealed space, draped over the resident channel/gypsum wallboard ceiling

(tem 0) shall be installed in accordance with installation instructions.

instellation instructions provided with the classicer.

installation instructions provided with the damper

QOYD INDUSTRIES INC --- Model 45-(10-95-81-4

installation instructions provided with the clamper.

LLOYD INDUSTRIES INC --- Model CR050-" X-ST

LLOYD INDUSTRIES INC ++ Meddly 45-CRD 17-87 and 45-CRD-010-98

membrane when resilient channels and gypsum wallboard attachment is modified as specified in flems 6 and 7. The finished rating when this

-38. Fiber, Sprayed* — For Use With American Sypsum Type AG-C only, As an alternate to Item 3 (not evaluated for use with Hern 68 and 60) spray applied cellulose insulation material, having a min density of 0.5 lb/H¹, sopked with water, over the resilient channel/gypsych board. ceiling membrane when resident channels and gypsymitharit attackment is modified as specified as items 6 and 7. Fiber, Sprayed is applied with monsture in accordance with the application instructions supplied with the product. The finish rating when Eiher Stoaved 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 (b/b) over the resilient channel/gypsum board ceiling membrane when resilient channels and gypsum – board attachment is modified as specified in items 6 and 7. Attemate application method, the fiber is applied without water or adhesive to a nominal density of 3.5 (b/R* behind neiting (item 51) stapied to the reflers. The neiting is stapled at both lower edges of the reflers creating a cavity to accept the cellulose fiber. The finished rating when this insulation is used has not been determined.

APPLEGATE GREENFIBER ACQUISITION LLC --- Insulmax and SANCTUARY for use with well or dry application (#155/300) (#155/300) and #0554100 are in-

SC. Foarned Plastic* — For Use With American Bypsum Type AG-C only, (As an alternate to Item 3 Not Shown) --- Spray foom 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 st at a nomical 0.5 lb/h⁴ density, while maintaining a cashing as 5-1/2 in clearance between the spray town insulation and the gypourn board. When variay foam exultation is used, resilient characels there 6! shall be restailed maximum 37 in IGC, with channels adjacent to bust joints of gypsum board (item 7) installed at 5 in. OC to allow for maximum 3 in, spacing off ends of the gypsum board joints. Gypsum board to be installed using 3-174 in, long Type 5 strews, spaced maximum 8 in, OC, and butted end joints shall be staggered min-2 ft within the assembly, and occur makiway between the continuous furning channels. If used with a ceiling damper (thems 5 through SAC) in the concested space, minimum 1 m, clearance to be maintamed between damper housing and spray foam insulation. United to realient channels, item 6

3D Formed Plastic* — For the With American Gypsian Type AG-C only (As alternate to item 3 Not Shown) — Spray form moviation applied -directly to the underside of the roofing system. Spray foam insulation installed to a maximum thickness of 10 μ , at a non-mal 0.5 $10/10^3$ or 2.0 \pm b/ft³ Genarity, depending on the product installed. When spray foam insulation is installed, resilient channels (terr, 6) shall be installed. maximum 52 in, GC, with channels abjacent to butt joints of gypsum board spaced maximum 3 in, away from gypsum butt joints, Gypsum board to be installed using minimum 1-174 in long Type Siscrews, spaced maximum 6 in IDC, and butted end joints shak be staggered min. 2 If within the assembly, and accur midway between the continuous furning channels. If used with a ceiling damper (items 5 through SAC) in the concreated space, nanomeral to integrance to be maintained between damper bousing and spacy basis insulation. Limited to resilient channels, Hern 6 only, no Bern 6 alternates. The brished rating when this insulation is used has not been determined BASE CORP --- Energia & NM Energita & O. 55178 *- Scraytnes: \$78, Sprayldo # 81206, Walkite # 200, Walkite # US, Walkite # US-N, and Walkite # HP--

applied directly to the underside of the underside of the roofing system. Spray foars insulation installed to a maximum thickness of 17 in, at a nomical 0.5 lb/ft¹ density, while maintaining a minimum 3-1/2 in clearance between the spray foard insulation and the gypsum board. When spray feath insulation is used, resilient channels (tem 6) shall be installed maximum, 12 in, OC, with channels adjacent to butt joints of gypsium. Exact installed at 6 in OC to allow for maximum 3 in spacing off ends of the gypsian board joints. Sypsian board to be installed using 3-1/4 in long Type Siscrews, spaced maximum Blin. OC, and butled end joints shall be staggered incol 2 ft verbin the assembly, and occur midway between the continuous furring channels. If used with a ceibing damper (Items 5 through 5AC) in the concealed space, no clearence is necessary between competitiousing and spray foam insulation. Limited to resident channels, them 6 only, no hom 6 abornates. The finished

3F. Formed Plastic* --- (As alternate to item 3) --- Spray loarn involution applied directly to the underside of the underside of the southing -system. Spray four mystation inclusion to a maximum thickness of 10 in lat a numerial 1.0 \ln/t^3 - 2.5 \ln/t^2 density while maintaining a minimum 7 in Generate between the spray foam soulation and the gypsich board (item 7). Spray foam insulation is bristed for one with mmmmin 18 w. deep Trustes (item 2). When spray foam insulation is installed, resident channels (item 5) shall be exitabled maximum 12 in. OC. with channels adjacent to pettypints of gypsem board spaced maximum 3 in laway from gypsem buttypints. Gypsem board to be installed using minimum 1, 3/4 in long Type Siscrews, spaced maximum 8 kb, OC, and butted and joints shall be staggered min. 2 fl within the essembly, and occur midway between the continuous furning channels, as illustrated above. If used with a reiling damper (Items 5 through SAC) in the concealed space, no clearance is necessary between damper housing and spray foam insulation. Only for use with item 5 not -

revaluated for use with alternates to nem 5. Only for use with dem 6 not evaluated for use with alternates to item 6. CARLISLE SPRAY FOAM INSULATION I Types Seaffine Pro Cloved Cell (CC), Seaffine Pro Open Cell (CC) Seaffine Pro DCX, Seaffine Pro Do Tam 21, One Zero, SealTite PACHERO, Francisiate Cloved Cell, Joannylate OCX, Franculate 70, Francolate JEO, and Francolat

4. Air Duct* --- For use with Ceiling Damper* - Any UL Class 0 or Class 1 flexible air duct installed to acrossdance with the instructions

5. Colling Damper* — Norw 20 in long by 18 in wide by 2-1/8 in high Sabricated from galvanized steel. Percym lics maximum size norm, 21 in, long by 18 m, wide by 16 m, high fabricated from either galavarized steel or Classified. Air Duct Materials bearing the UL Class 0 or Class 1 rigid bir duct material, installed in accordance with the instructions provided by the manufacturer. Max damper openitigs not to exceed 160 sq –

NAILOR INDUSTRIES INC --- Types 0755, 0755A, 0756, 07560, 0757, 075779, 075779, 07575P, 0758, 0750, 0760, 0761, 0762, 0763, 0760, 07

SAFE AIR DOWCO --- (255 04554, 0456, 0456), 0457, 0457-08 0457-08 0457-08 0457-15 0453-15 0453-69, 0455

5A Alternate Ceiling Damper* — Max plennen box size nom 19 m long by 19 m wille and 13-7/6 m high labitation from galvister-Aggregate damper openings shall not exceed 128 sq in, per 100 sq ft of ceiling area. Damper tottalled in accordance with the manufacturers

58. Alternate Celling Damper* — Max obsourd box size nom 33 in, long by 13 in, wide and 11-7/8 in, high fabricated from galvisteel. Aggregate damper openings shall not exceed 50 sq in, per 100 sq ft of ceiling area. Damper instaked in accordance with the manufacturers

LOYD INDUSTRIES INC -- Model CR0 50-ET-S, CR0 50-EA-81-6, CR0 55-57-6, CR0 55 EA-ET-S, CR050-11X-57-6

50. Alternate Ceiling Damper* — Max size unling outlet in plenum box ones 12 io. long by 12 io. wide Plenum box fallocated from galvisteel. Aggregate damper openings shall not exceed 72 sq in iper 100 sq friod ceding area instabed in accordance with the manufacturers in

SD. Alternate Ceiling Damper* — Max size ceiling outlet in plenum box nom 16 in, iong by 16 in, wide Apgregate damper openings shall not exceed 126 sq in lear 100 sq B of certing area. Damper installed in accordance with the manufacturors installation instructions provided

SLOYD INDUSTRIES INC --- Models CRD 30+FGPB-4.2, +4.2 PH, +6.0, +6.0 NF, CRD50-5A FGPB-4.2, +4.2 NF, +6.0, +6.0 NF

58: Alternate Ceiling Damper* — Max plenum box size nom 15 in Jong by 15 in wirle and 33-7/8 in, high fabricated from galvisfest. Aggregate damper openings shall not exceed 72 sq in, per 100 sq ft of certing area. Dampor installed in accordance with the manufacturers

SF Alternate Colling Damper* --- Max size colling outlet in plenom box nom 10 in long by 10 in wide Plenum box tablecated from galv shed. Apprendite damper openings shall not exceed 50 sn in per 100 sn ft of cesting area (installer) in accordance with the manufacturors

SG. Alternate Celling Damper* — Max plenum box size nom 18 in, iong by 1S id. wide and 11-7/8 in high fabricated from galvisteel. Aggregate damper openings shak not exceed 06 sq in, per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturers

511 Alternate Ceiling Damper* --- Max nom zea shall be 334 sq in Max (quare size shall be 18 in by 35 in Rectangular sizes not to exceed -324 sq in, with a max width of 38 in. Max height of damper shall be 34 in. Aggregate damper openings shall not exceed 162 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturiers installation visitizations provided with the damper. A steel grifte

CAS AIR PRODUCTS -- Madel RO S28

POTTORFE --- Model CSS-521

SI. Alternate Celling Damper* — Max cord area shall be 106 sq m. Max square size shall be 34 in. by 34 in. Rectangular sizes not to exceed 196 sq in, with a stay width of 26 in. Max height of damper shall be 7 kn. Aggregate damper openings shall not exceed 08 sq in, per 100 sq ft of colling area. Damper installed in accordance with the manufacturers installation instructions provided with the damper. A steel orille ätem 9) not the exceed 144 in 2 shall be installed in accordance with instaliation instructions. CSIS AIR PRODUCTS --- Model RE-521-ET

POTTORFF --- Model CFD-521-57

- 51 Alternate Ceiling Damper* --- Max non-large shall be 356 sq in with the longth nat to exceed 24 in and the webb not to exceed 25 in Max beight of damper shall be 37 in. Aggregate damper openings shall not exceed 328 sq m, per 100 sq /t of ceiling area. Damper installed in accordance with the manufacturers installation instructions provided with the damper. A sleet guise (Rem 9) shall be installed in accordance with installation instructions. CAIS AIR PRODUCTS - Model RD 526-9, RD-521 NP

POTTORFE -- Models (TD \$25-32 CFD \$24 NF)

SK. Alternate Celling Damper* — Max nom area shall be 144 sq in, with the longth not to exceed 34 in, and the width not to exceed 32 in. Max beight of damper shall be 17-7/8 in. Aggregate damper openings shall not exceed 74 squal per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturers instaliation instructions provided with the damper. A steel grille (item 9) will be installed in accordance wellnewtal/Atios instructions. CS(S AFR PRODUCTS ---- Mcdel RD-523-90, 52-521-NP90

POFFORES --- Models CED-523-90, CED-523-90NP

5L. Alternate Ceding Damper* — (Optional) Max nom area shall be 324 sq in. Max square size shall be 18 in. by 18 in. Rectaogular sizes not to exceed 324 sq m, with a max width and max length of 18 in. Max round size shall be 18 m, dia. Aggregate damper operangs shall not exceed 162 sq in, per 100 sq ft of defiing area. Componentatived in accordance with the manufacturers installation instructions provided with the damper.

RUSKIN COMPANY ---- Models C1077, C1071-EN0-67, C1071-80 67, C1071-57-67, C1071-58, C1071-68-00, C1077-68, er C50871-

- 5M Alternate Colling Damper* -- Colling damper & lan assembly. Max non-area shall be 75 so in with the length not to exceed 8 9/16 in and the width not to exceed 8-374 m. Max height of damper shall be 9-778 in. Aggregate damper openings shall not exceed 38 sq m. per 190 sq fir of certing area. Damper shall be installed to combination with one of the (an 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, DELVA ELECTRONICS INC -- Models CR02, (S2R, CR0, F)G, CR0.

SN: Alternate Ceiling Damper" --- Max nom area shall be 324 sq. a. Max square size shall be 18 in by 18 in. Rottangular sizes not to exceed 324 sq in with a mox length of 20 m, and a max withh of 22 m. Max height of damper shall be 34 in Aggregate damper openings shall not exceed 154 squin, per 100 sq ft of cesting area. Damper possibled in accordance with the manufacturer's instabilition instructions, provided with the damper. An aluminum or steel grille shall be installed to accordance with installation instructions SINITED ENERTECH CORP --- IV20 C-5/R-WI or C-5/R WIP (Maxinomiares 324 sq. m) or C-5/R WIPS or C-5/R WIPS (Maxinomiares 112 sq. m)

- SO. Alternate Celling Damper* — Celling damper & fan assembly. Max nom brea shell be 7S sq in, with the length not to exceed 9-1/4 in. and the width not so exceed 9-374 in Mexiheight of damper sholl be 9-778 in. Aggregate damper openings shall not exceed 45 spin, per 100 sg H of colling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with the manulaturer's installation instructions provided with the damper. A plastic grille shall be installed in accordance with installation instructions DEUTA ELECTRONICS INC --- Model S/G-CRD

5P. Alternate Ceiling Demper* — Ceibng damper & fao assembly. Max nom area shab be 131 sq in, with the length not to exceed 13-1/16 in and the width not to exceed 11-7/8 in. Apprendic damper openings stall not exceed 66 sq in, per 100 sq friot certing area. Damper shall be installed in combination with one of the ian models described in, and in accordance with, the manufacturer's installation instructions provided with the clamper. A plastic grille (item 0) shall be installed in accordance with installation instructions. DELTA ELECTRONICS INC ---- Mode: SMT-CR0

3Q. Alternate Ceiling Damper* — Ceiling damper & fac assembly. Max nom area shall be 103 spin, with the length not to exceed 30-3/8 in. and the worth not to exceed 10-1/8 in Aggregate damper openings shall not exceed \$2 sq in, per 100 sq h of certing area. Damper shall be astalled in combination with one of the fan models described in, and in accordance with, the manufacturer's ustallation instructions provide with the damager. A plastic grifle shall be installed in accordance with installation instructions. PANASONIC CORPORATION, PANASONIC CORPORATION OF NORTH AMERICA --- Model FC-R00505

SR Atternate Ceiling Damper* — Ceding damper & fan assembly. Max nom area shab be 113 squal with the tength pot to exceed 10-1/5 in and the wadth not to exceed 11-178 m. Augregate damper openings shall not exceed 57 sq in. per 100 sq ft of ceding area. Damper shall be installed in combination with one of the fan models doscribed in, and in accordance with, the manufacturer's installation instructions provided with the classper. A plastic grille shall be installed in accordance with installation instructions. BROAN-NUTONELLE C --- Model SOCOWT

55 Alternate Ceiling Damper* -- Ceiling damper & fan assembly. Max nom area shail be 79 sq in with the length nos th exceed 10 in and the wirldy ont to exceed 7-15/16 in Aggregate damper rigonargs shall not exceed 40 sq in per 100 sq ht of priling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer's establation instructions provided with the damper. A metallic golle shall be installed to accordance with installation instructions. BROAN-NUTONE LUC -- Models RD/1 and RDH

ST Alternate Ceiling Damper* — Max plenum box size nom 10 m long by 10 m, wide and 15-778 in, high falarcated from galvisteei Aggregate damper openings shall not exceed 126 sq in loar 100 sq h of certing area. Damper installed in accordance with the manufacturers installation instructions provided with the damper METAL-FAB INC --- Models MSCD-HC and MRCD-HC

50. Alternate Celling Damper* — Celling damper & lan assembly. Max nom area shall be 87 squit, 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 sqim, per 100 sqift of coiling 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 clamper. A plastic grille sholl be installed in accordance with installation instructions -BROAN-NUTONE L1 C --- Model RSNAV7

5V Atternate Ceiling Damper* — Ceding damper & fan assembly Max room area sha8 be 87 squit with the length not to exceed 9 in and the willPringt in exceed 9-11/16 in Aggregate damper openings shall not exceed 44 sqim, per 100 sqlft of certing area. Damper shab be installed in combination what one of the fan models described in, and in accordance with, the manufacturer's tostallation instructions provided with the damper. A prastic gotte shall be installed in accordance with installation instructions. BROAN-NUTONE LLC - Model R0MWW2

SW Alternate Ceiling Damper* --- Max com 23 in, long by 16 in, wide, fabricated from galvanized steel. Person hox max size now 23 in --long by 18 in wide by 14 in bigh (inter dimension) (obvicated from either gaivanized steep or min 1 in thick Listert Duct Board hearing the UL insteing Marking beying a rein R-Value of 4.3 Installed in accordance with the matrixitized provided by the manufacturer. May dereger openings not to exceed 180 sq in per 100 sq ft of ceding area. GREENHECK FAN CORP ---- Model URD GWT

5X. Alternate Ceiling Dampert — Max nom 32 in, long by 12 in, wide with an 8 in, diameter damper, fabricated from galvanized steel. Installed in accordance with the instructions provided by the manufacturer. Max damper openings not to exceed 72 squre per 100 sq ft of ceilvrio area GREENMECK FAN CORP --- Model CSD-2W7

5Y. Alternate Ceiling Damper* — Max 12 in, rhamater damper and insulated register box assembly. The maximum size of the register box assembly is nom. 20 m. long by 20 m wide and 4 m, high fabricated from galvisteel. The aggregate area of the register opening/si librough the ceiling membrane shall not exceed 128 sq in. Ger 100 sq ft of centing area. Damper assembly installed in accordance with the manufacturors installation instructions AIRE TECHNOLOGIES INC ---- Model 57(b)

57. Alternate Colling Damport --- Max 20 in long by 16 in wide by 4 in Eight rectangular damper with plenom tox assembly. The macrosom outer dimensions of the plenom how assembly is 23-3/2 to long by 19-3/2 in wide and 37 in, high fallocated from 6pcf, 3-1/7 to 2 in Thick - Knauf Air Duct Board M4. The aggregate area of the register opening(d) through the ceding membrane shall not exceed 160 sq in, per 100 sq fliceting area. Damper assembly installed in accordance with the manufacturers installation instructions. AIRE TECHNOLOGIES INC Screw 58

SAA Alternate Ceiling Damper* --- Max 14 in long by 14 in wide and 16 in, high ceiling damper with boot or box assembly debricated from galvisteel. The aggregate area of the register openingly) through the relaxy membrane shall not exceed 98 so in per 100 sq ft of ceiling area. PRINTS ISSUED 11/01/2023 - CITY SUBMITTAL

REVISIONS:

Damper assembly installed in accordance with the manufacturers installation instructions. AIRE YECHNOLOGIES INC + Model S1 w/Boot

SA5. Alternate Ceiling Damper* --- Maxinom 11, 378 in long by 13, S78 in wide, fabricated from galvanized steel. Installed in accordance --with the instructions provided by the manufacturer. Max damper openings not to exceed 76 sq in per 160 sq it of reiling area. GREENMECK FAN CORP --- Model CR0-33CWT

SAC: Alternate Celling Damper* — Max nom 37-378 in Xong by 14-172 in wite, fabocatert from galvanued steel. Iostallert in accordance – with the instructions provided by the manufacturer. Max damper openings not to exceed 90 sq in, per 100 sq it of reiling area. GREENHECK FAN CORP - Moder (BD 320W)

SAD, Alternate Ceiling Damper* --- Max 12 in diameter damper within max 15 in by 15 in register box with max 12 in the 12 in register ---opening fabricated from galvanized steel. Aggregate area of the register opening(s) through the colling membrane shall not exceed 72 so, in per 100 sq. ft, of reilog area. Dances assembly installed to accordance with the manufacturer's installation instructions RUSKIN COMPANY --- Model C7877-SR

5AE. Alternate Ceiling Damper* — Max 12 m. diameter damper and insulated register box assembly. The maximum size of the register box assembly is norm. 20 inclong by 20 m wide and 4 incluigh fabricated from galvisteel. The appregate area of the register ocentra(s) through the ceiling monthrane shall not exceed 126 sq m, ger 100 sq h of cashing area. Damper assembly installed in accordance with the manufacturers installation instructions

SOUTHWARK METAL MEG CO --- Model 200 w/Box

SAE Alternate Ceiling Compet* — Max 20 in long by 16 in write by 4 in logb rectangular damper with plenam box assembly. The maximum outer dimensions of the plenum box assembly are 23-1/2 in long by 39-1/2 in, wide and 37 in, high fabricated from Epcl, 3-1/2 to 2 in thick Knauf Air Soci Board MN. The aggregate area of the register opening(s) through the ceiling membrane shall not exceed 150 sq in. per 100 sq ft certing area. Gamper assembly installed in accordance with the manufacturers installation instructions. SOUTHWARK METAL MEG CO ++ CRO w/59 Sox

SAG Alternate Ceiling Damper" --- Max 34 in long by 14 m, werde and 18 m high cubing damper with loopt or box assembly, fabricated from -galvisted. The appropriate area of the register opening(s) through the relaxy membrane shall not exceed 98 sq in per 100 sq frind easing area. Damper asymptotic systeller in accordance with the manufacturers installation instructions -SOUTHWARK METAL MEG CO --- Medel 503 w/Root, 513 w/Root, 500 w/Box or 510 w/Box --

5A14 Attennate Celling Damper* — Max norm 13-378 inviong by 13-378 invide, laisneated from galvanized steel, installed in accordance with the instructions acoulded by the macufacture; Max damper openings not to exceed 54 sq in iper 300 sq to of celling area.

GREENHECK FAN CORP --- Model CRD-300WT

6. Farring Channels - Reydont dramely forced of 25 M56 galv street spaced 16 or OC, installed perpendicular to topyos. When insulations, are installed or Graped over the resilient channel/gypourn walibuard ceiling membrane, the spacing shall be as described below. Channels secured to each touss with 3-1/4 in, long Type Sisteel screws. Channels overlapped 4 in, at aplices. Channels onented opposite at wallboard butt joints (seaced 6 in IOC) as shown in the above diustration.

When Type AG-C papers are attached to the resident chapters, the chapters may remark at 16 in OC -

When Type 16-6, panels are attached to the resilient channels, the channels are installed at 12 in 100.

6A Steel Framing Members* --- (Not Shown) --- As an alternate to Item 6. fuming channels and Steel Framing Members* as described below: a. Furring Channels — Formed of No. 25 MSG galvistedi, 2-9/36 in or 2-23/52 in wide by 7/8 in, deep, special 16 in. OC perpendicular so trusses. When hatt insulation (term 3) is draped over the resilient channel/gyroum board colling membrane, the resilient channel spacing shall be reduced to 12 in IOC. Channels serviced to trasses as described to term b. Ends of adjacentic character provide the and tead together. with double strand of No. 18 SWG galv steel wire near each end of overlap.

Is. Steel Framing Members* — Used to attach furning channels (Hem a) to trusses (Hem 2). Clips spaced 48 in: OC. RSIC-1 and RSIC-1 (2.75) clips secured to alternating trustes with No. 8 x 2-1/2 \pm coarse drywall screw through the remer grommet (RSIC-V and RSIC-V (2.75) clips – secured to alternating trusses with No. 8 k 1-1/2 its charse drywall screw through the center hole. Surring channels are friction litted into drps. RSIC D and RSIC-V clips for use with 2-0y16 in wide furning channels, RSIC-1 (2.75) and RSIC-V (2.75) clips for use with 2-23/32 in wide furning channels. Arlyoining 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 No. 6 training stress, non 7/16 in long at the midpoint of the overlap, with one stress on each bange of the channel Additional click required to bold furring channel that supports the uvosum board but joints as described in Item 7. PAC INTERNATIONAL LUC --- 19065 85/C-1, RSIC-V, RSIC-7 (2.75), RSIC-Y (2.25).

68. Alternate Steel Framing Members' — (Not Shown) — Not evaluated with item 3 (Bans and Slankets). As an alternate to thems 6 or 6A.

furning channels and Steel Framing Members as described below. e. Furring Channels — Formed of No. 25 MSG galvistosi, 2-678 in. Work by 778 in deep, specied 16 in OC, perpendicular to trussed. Channels i sequired to trusses as described in them by

b. Steel Framing Members* --- Used to attach furring channels (item a) to the wood trustes (item 2), Clips spaced at 48° OC and secured to --the bottom of the trasses with one 2 in Coarse Drywall Screw with 1 in idiam washer through the center hole. Furring channels are then frigtion fitted into rlips. Ends of channely are evenlapped (i) and tred together with clouble strand of Mo. 15 AWG galvanized street with . Additional clips are required to hold the Gypsum Bull joints as described to Hem 7. STUDEO BUILDING SYSTEMS --- RESUMOUND Sound Volution Clips - Syde A032 of A232R -

60. Alternate Steel Framing Members" --- (Not Shown) --- Not evaluated with Item 3 (Batts and Blackets). As an alternate to Items 6 through hB, furring channels and Steel Framing Members as described below. a. Furring Channels --- Formed of No. 25 MSG galvisteel, 2-1/2 in, wide by 7/8 in deep, spaced 16 in OC, perpendicular to trusses. Channels -secured to trasses as described in Rem b-

b. Steel Framing Members* — Used to attach forming channels (firm a) to the wood tooses (firm 2). Clips spaced at 48° OC and secured to the boltom of the trasses with one 2-1/2 m. Coarse Drywall Screw with 1 m. dram washer through the center hole. Furting channels are then friction fitted into clips. Ends of channels are overlapped 61 and ted together with double strand of No. 38 AWG galvanized steel wite. Additional clips are required to hold the Gypsum Butt joints as described in Hem 7.1 REGUPOL AMERICA --- Type Sorke/Cop --

7 Gypsum Board* --- Nom 576 to thick, 46 an wide, establed with long dimension perpendicular to resilient channels with Lin long Type 5 strays spaced 12 in ∞ and located a min of 1/2 in from side joints and 3 in from the end joints. At end joints, two resilient chapsels are used, extending a min of 5 in, beyond both ends of the joint. When batt and blanket insulation, item 3, is draped over the resilient – channel/gypsum wa8board ceilong membrane, screws shall be installed at 8 in. OC. When Steel Framing Members (Item 6B) are used one layer of nom 5/8 m, thick, 4 filmedo gypsum board is instated with long dimensions perpendicular to furring channets. Gypsum board secured to forming channels with nom 1 in long Type S bugte-head steel screws spaced S in. OC in the field of the board. Gynsum board builted end joints shall be stoggered minimum 48 in and centered over main furing channels. At the gypsum locard burt joints, each end of each gypsum loard shall be supported by a single length of furing channel equal to the width of the gynsum board plus 3 in, on each end. The two support lioning chaonels shall be spaced approximately 3 in, in bord end joint, Screw spaceg along the gypourn heard butt joint and along 👘 both additional channels shall be 8 in OC. Additional science shall be placed in the adjacent section of gypsian board into the aforeney council. 3 to extension of the extra butt joint chaonels as well as into the main channel that runs between. Butt joint furring channels shall be attached with one RESILMOUNT Sound (solation Clip at each end of the channel)

When Steel Framing Members (Item K) are used, ont tayer of nom (v8 in Thick, 4.6 wide gyption board is installed with long dimensions perpendicular to furring channels. Syppure board secured to furring starmely with one 1 in long Type 5 bugie-head stret screws spaced 6 in OC in the hold of the board. Gyptan: board botted end joints shab be staggered minimory 48 in, and centered over maps forceg channels. At the gyption board bott joints, an arkitioner single longch of futuring channel shell be instelled and be spaced approximately due, from the horitizent (auri-from the continuous furring 👘 channels) to support the floating and of the gypsum board. Section fithese shorter sections of furning channel shall excool one truss heyond the width of 👘 the gypsitra papel and to attached to the adjacent trasses with one SobitsClip at every trass involved with the bast joint -

AMERICAN SYPSUM CO --- Type: AG-C

GEORGIA-PACIFIC GYPSUM & L C --- Type TG-C -

7A Gypsum Board* — (As an alternative to item 7) --- For ase when no insulation is used. Non 5/2 m, thick, 48 in wede gypsum board, installed as described in nom 7 with replicat channels (item 6) speced 24 m OC -

AMERICAN GYPSUM CO --- Type AG C

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, non 3752 is, thick veneer plaster may be applied to the entire surface of gypsium wa8hoard

9 Grille — Installed in an orderice eith the testaliation instructions provided with the ceiling damper

10 Discrete Products Installed in Air-handling Spaces* --- Automatic Salancog Valve/Damper --- (Not Shown - Optional) --- For use with instructions with side outlet only, Entire assembly to be installed into any UC Class 9 or Class 9 flexible air duct in accordance with the instructions provided by the automatic balancing valve/damper manufacturer. METAL INDUSTRIES INC ---- Model ABV-4, ABV-5, ABV-6





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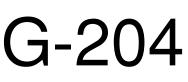
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SHEET TITLE

UL ASSEMBLIES - P545

PROJECT NUMBER: 23098



13. Netting — (Not shown) fibrous, woven neiting material fastened to underside of each joist with steples, with side joints overlapped.

12 Netting --- (Not shown) -- Non-woves polypropyere fabric lastened to underside of each joint water staples, with side joints constagged. Sor use with Type AG-C gypsum hoardy only.

* indicates such products shall bear the UL or cUL Cortification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively Lass Updated on 2022-09-08

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

See General information for File-registance Ratings - ARSU28, 263 Certified for Upited States

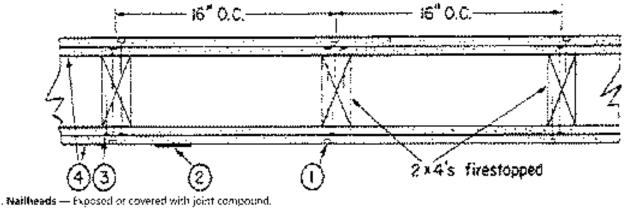
See General information for the Resistance Ratings - CARDEC-S101 Centred for Canada Design Chiena and Abowable Variances

Design Gateria and Allowable Venerices

September (9.2023)

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 used — See Guide <u>BXUV</u> or <u>BXUV7</u>

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



2 Joints — Exposed 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 voneer paster may be applied to the entire surface of Classified vancer baseboard with the joints reinforced with paper tape

3. Nails — 6d coment coated bails 3-778 in. Song, 0.0915 (n. shank cliam, 374 in. dram heads, and 8d cement coated harls 2-378 in. long, 0.133 io, sharix diam, 9732 io, diam beads.

4. Gypsum Board* — 5/6 in, thick, two layers applied either honzontally or vertically Index layer attached to study with the 1-7/6 in, nails spaced 6 in IOC Outer layer attached to study over inner layer with the 2-3/8 in long halfs spaced 8 in IOC Vertical joints located over study. All joints in face lovers staggered with joints in hase layers. Joints of each base layer offset with joints of base layer on opposite side. When used in widths other then 46 in , gypsim opend to be installed horizontally. When Steef Framing Members* (Item 6 or any alternate Gips) are used thate layer attached to forcory channels with 3 in 2009 Type S bugie-head steel screws spaced max 24 m. CC. face layer effactued with 1-578 m. long Type 5 bugte-need screws spaced max 12 m. CC AMERICAN GYPSUM CO --- Types AGX-1 M Glass, AG-C, AGX-13, LightRoc

BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO -- Type OSX 1

CABOT MANUFACTURING ULC -- Type X, 5/8 Type X, Morstere Revistant, Type X, Dyesen: Sheathing, Type X, Mold & Mildow Repistant, Type X and Mold & Mildew Sesistant AR Type X, Type Blueglass Extensor Sheatlang

CERTAINTEED GYPSUM JMC -- Types EGSG, GasSoc, GlasRee 2, Type C, Type X D, Type (W1X)

CGC INC --- Types AR, C. (P-AR, IP-X3, VP-82, IPC-AR, SCX, SHX, UUX, DXX, USGX, WRC, WRX,

CERTAINTEED GYPSUM INC --- Types LOFCZA, LOFCKA, LOFC-C/A, LOFC-WD, LOLLX, CLLX -

GEORGIA-PACIFIC GYPSUM LLC --- Types 5-5, 9, 4, DAP, 30, DA, DAPC, DGG, D5, GPTSC, US, TG-C, Typer X, Veneor Plaster Base-Type X, Water Rated-Type X, Sheathing Type-X, Sofid-Type X, Greentijias Type X, Type (WX, Veneer Baster Base-Type (WX, Water Barad-Type (WX, Sheathing Type-UWX, Sofit-Type UWX, Sype DGLW, Water Rated Type (XSUW, Sheatting Type-LXSUW, SolSt Type DGLW, Type LW2X, Veneer Raster Rase - Type UW2X, Weiter Rated -Type UW2X, Shirathing - Type UW2X, Softh - Type UW2X, Type DGL2W, Water Rated - Type DGL2W, Shirathing - Type DGL2W

NATIONAL GYPSIJM CO -- Types CXP C, PSK, SSK T, PSK, G, PSW, PSW 3, PSW 5, PSW 6, PSW 6, PSW 6, PSW 6, PSK, PSK, PSK, PSK

NATIONAL GYPSUM CO --- Riyadhi Saudi Arabia --- Sype FR, or WB,

PABCO BUILDING PRODUCTS & L.C. DBA PABCO GYPSUM --- Tyces C. PG-2, PG-3, PG-3W, PG-4, PG-5W, PG-5W, PG-10, PG-10, PG-0, PG-9WRS,

PANEL REV 5 A --- Types PRC/PRC2/PSX, REX_MOX_EDX, GREX/689X

SIAM GYPSUM INDUSTRY (SARABURI) COLTO --- Type 5X-1

THAT GYPSUM PRODUCTS PCL --- Type C or Type X

UNITED STATES GYPSUM CO --- TVDAS AS IC TRX-G (P-48, P-XT /P X2, PC-AR, SCX, SUX, USX, USX, USX, WRC, WRX

USG BORAL DRYWALL SEZ LLC --- Types C. SCX, (ISGX)

USG MEXICO S A DE C V --- Types AR, C, P, AR, IP, X2, IP, AR, SCX, SHX, UTX, USGX, WRC, WRX --

4A Gypsum Board* --- (As an alternate to /tech 4) --- Nom 3/4 in, thick idstalled as described in Itera 4 CGC SNC --- Types AR, SP-AR

UNITED STATES GYPSUM CO --- Types AS, IP-48

USG MEXICO S A DE C V -- Types A8, (P. AR.)



Design/SystemsConstruction/Adsentialy Usage Opplander

Authorities Having knowledge in should be consulted in all cases as to the particular requirements unveroig the installation and use of

• Fore regonance assembling and productly are developed by the depen submitter and have been investigated by UL for compliance with applicable requirements. The published reformation cannot always address every construction means 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 named for the design. Overs of fire resistance assemblies are advased to uppeut the general Guide information for PACC product rategory and each group of assembles. The Guide Information includes specifics concerning alternate maternals and alternate

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

Design No. U301

Bearing Wall Rating - Z Hr.

48. Gypsum Board* — (As an alternate to items 4 and 441 --- 5/8 in. ttack, 2 if wide, longue and groove edge, applied horizontally as Ite- cuter layer to one side of the assempty. Secured as described in Item 4, anim covering (them 2) holl required. CGC ENC --- Typic SIRX

UNITED STATES GYPSUM CD --- Type SHX

USG MEXICO \$ A DE C V --- Type SHX

40 Gypsum Board* — (As an attentate to trans 4, 4A on 48 --- Not Shown) --- For Direct Application to Study For use on one or both sides of the walk as the base layer or one or both sides of the walk as the face layer. Nom 5/5 in, thick lead backed gypsum panels with beveled, square or typered edges, applied versically. Vertical joints centered over study and staggered min 1 studicavity on opposite sides of study Walihaard secured to study with 1-578 in long Type W charse 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 some length to be increased to 2-1/2 in. Lead batten strips impored behind versical joints of tead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 1-1/2 in, wide, maxi-10 ft long with a mexibilityness of 0.125 in placed on the face of study and attached to the stud with two 1 in. Song Type S-12 pan head steel screws. Millione 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, cliars by max 0.525 in, tbick lood discs compression fitted or adhered over steel screw heads or max 3/2 in by 1-1/4 in by max 0.325 in thick lead tabs placed on gypsum boards underneath screw locations prior to the installation of the screws Load batton strips to have a purity of 59.9% meeting the Federal specification OQ 1, 2014, Grade "C", Fasteners locface layer gypsom panels (Items 4, 4A or 4B) when installed over lead backed board to be min 2-1/2 in Type 5-12 bugle head steel screws spaced as described to item 4.

RAY-BAR ENGINEERING CORP -- 1900 PP-18G

40. 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 bypsum panel steel screws spaced a max 8 in ICC, with last screw 1 in Irom edge of locard. Outer layers fastened to framing with 1.7/8 in land Type Wisparse thread dynsum panel steel screws spared a trax 8 in IGC, with last screw 1 in least radge of board. When used in wedths other than 48 m, gypsum board to be installed instrantally. All joints in face layers staggrand with joints. in have layers. Jointy of each base layer offset with joints of base layer on opposite side. AMERICAN GYPSUM CO --- Types AGX-1_M-Glass, AG-C, UghtRec

4£. Gypsum Board* — (As an alternate to (tems 4 through 4D) — 5/8 in stack, 4 ft, wide, paper surfaced applied vertically and secured as described in hem 4.

GEORGIA-PACIFIC GYPSUM 1 E.C. --- Type X CombotGuard Sound Oradering Gypson Boest

4F. Gypsum Board* --- (As an alternate to Hern 4) --- Not to be used with dem 6, 64, 66 or 6C. S/8 in thick, 4 ft. wide, paper sortaced, applied vertically and secured as described in Item 4. NATIONAL GYPSUM CO --- Type SEW8

40. Gypsum Board ? — (As an alternate to Items 4 through 451 --- Nominal 578 in, thick -4 ft wide panels, applied vertically and secured as described in hem 4.

PASCO BUILDING PRODUCTS & L.C., DBA PABCO GYPSUM --- Types CarelRock 65

4H Gypsum Board* --- (As an alternate to litern 4) --- Not to be used with item 6, (A, 66, or 60, 5/9 in thick, 4 ht wide, paper surfaced, applied vertically or botizontally and secured as described in Item 4. CERTAINTEED GYPSUM INC --- Type Sdent8X

4. Gypsium Board? — (As an attentiate to item 4) — 5/8 in thick, two layers applied either horizontally or vertically, toper layer attached to studs with 1-174 in, long Type Wisteel screws spaced Blin, DC. Outer layer attached to studs over inner layer with 2 in, long Type Wisteel screws spaced 8 in OC offsat 6 in Tramibase layer. Venical joints located over studs. Vertical and honzontal joints between inner and outer layers staggered. Outer layer joints covered with joint tabe and compound, screwheads covered with joint compound. As an alternate to the point compound men 3/37 in thick gyptim veneor plaster may be applied to the entire surface of Consilied veneor baseboard. Joints reinfurced. Wa8hoard other than 45 in, while must be applied horizontally. The SoundBreak XP Type X Gyptum Bhard is not to be used with tiern 6, 6A, 65, 67.60.

NATIONAL GYPSUM CO --- Types tXP (C, FSX, FSK+C, FSX, G, FSW, SSW, 3, FSW-6, FSW-6, FSW, C, FSW-6, FSXK+C, SAWK-

4J. Gypsirm Board" — (As an alternate to Items 4) --- For Direct Application to Studis Only-- For use as the base layer or as the face layer. Nom 5/8 in thick lead backed gypsum panels with baveled, square or tapered edges, applied vertically. Vertical joints contered over studs and staggered min 1 stud cavity on apposite sides of study. Wallboard secured to study with 1.578 in long Type W coarse thread gypsian panel step shows spacel R in OC at perimeter and in the field when applied as the base layer. When applied as the face layer strew length to be

increased to 2-1/2 in. Lead batteristrips required behind vertical joints of (earl backed gypour wallboard and optional at remaining studlocations Load battern strips, min 2 in, wide, max 30 ft long with a max thickness of 0.340 in, placed on the face of study and attached to the the win two 1 in fond type 2.6 pair head steel screws, one all the top of the stup and one at the bottom of the stop. Lead tiscs, max p/3b in, rham by max 0,140 in, thick, compression fitted or adhered over the strew heads. Lead batten strips and discs to have a purity of 99,5% meeting the Federal specification OQ U 2014, Grades 18, C or D1 Festeners for face layer gypsum panels (Berns 4, 44 m 48) when installed yeer lead barked board to be min 2-1/7 in Type 5-12 bagie best steel strewy spaced as described in herr 4. MAYCO INDUSTRIES INC --- "X-Ray Shielded Gypsuro"

4K. Gypsum Board? — For use with Item 7 --- 575 in, thick, two layers applied vertically. Inner layer attacted to resident channels with 3 in. long steel screws specied 8 in, OC. Outer tayler attached to resilient channels over inner tayler with 1-578 in Torici steel screws specied 8 in, OC All joints in face layers staggered with joints in hose layers. Joints of each base layer offset with joints of base layer on opposite side. Insulation (terms 8 or 9 is required

AMERICAN GYPSUM CO --- Types AGX-1, M-Glass, AG-C, AGX-13

NATIONAL GYPSUM CO --- TypeviexP C TSK (SSK-C TSK-G, TSW-G, FSW-G, FSW-G, TSW-G, TSW-G, TSW-R, TSW-R, SSWB

4. Gypsum Board* --- (As an alternate to Items 4) --- For Direct Application to Study Only. For use as the base layer or as the face layer. Non-slaggered into 1 stud ravity on opposite sides of studs. Waltopard secured to studs with 1-578 in long Type W coasse thread gypsues panel steel sciews spaced B (n, OX, at perimeter and in the field when applied as the base layer. When applied as the face layer screw length to be increased to 2-172 in. Lead batten strips required behind vertical joints of each backed gypsium wallboard and optional all remaining and locations Lead batten stops, min 2 in, wide, max 8 ft long with a max thickness of 0.14 m, placed on the face of study and attached to the studwith construction adhesive and two 1 in long Type 5.32 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, nominal 376 in them by max 0.085 in thick, compression fitted or arbiered over the screw heads. Lead batten strips and discs to -have a parity of 99.9% coopting the Federal specification GQ-1-7015 Grade 101. Fasteners for face layer gypsion panets (terms 4, 4A or 48) when installed over lead backed brand to be roid 2/3/2 to Type 5-12 hug/6 head steel screws spaced as described in Steer 4 \pm RADIATION PROTECTION PRODUCTS INC --- Sype RPP - Lead Used Drywals

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

4N. Gypsum Board* ---- (As an alternate to 5/8 in Type FSW in items 4 or 4) -- Nors 5/16 in thick gypsum panels applied vertically or Incidentally Two layers of 5/16 in for (very vegly layer of 5/8 or gypwan huard described in Pere 4 or 41 Horigential points on the same side need not be staggered. Incer layer of each double 5/36 in layer attached with fasteners, as described to item 4 or 41, spaced 24 m. OC. Outer layer of each double \$716 in, layer attached por item 4 or 41 NATIONAL GYPSUM CO < Type FSW

4D Wall and Partition Facings and Accessories" — (As an alternate to Items 4 through 4N) --- Nomins) S/8 in, thick, 4 ft wide panels. applied vertically and secured as described in hem 4. PASCO BUILDING PRODUCTS LLC, DBA PABCO GYPSUM --- Type ObjetRock 527

4P. Gypsom Board* — (As an alternate to item 4) --- 5/8 is, thick, two layers applied either boronntally or vertically locer layer attached to studs with 3-174 m. long Type Wisteet torews spaced 30 m. OC with the last two screws 4 and 3 in, from the edges of the board. Outer layer attacted to study over interlayer with 1-7/8 in, king Type Wisterlarcews spaced 10 in, OC pilset Sim, from base layer with the last two screws 4 and 7 in, from the edges of the board. Vertical joints located over sturls. Vertical and horizontal joints between inter and outer layers staggered. Other layer joints covered with joint tape and compound, screwheads covered with joint compound. When used in widths other than 40 m, gypsum panels are to be installed horizontally -CERTAINTEED GYPSUM INC --- Type LGFC6A, Type LGFC7A, Type LGFC+C/A, Type LGFC+WD, Type LGFLX

4Q. Gypsum Board* — (As an alternate to item 4. For use with Kern 13) --- Any 5/8 in. (bick, 4 ft, wide, Gypsum Board US Classified for Are-Resistance (CKNX) eligible for use to Design Nos. U305 and L500 or G512. (wo layers, applied either horizontally or vertically, and acrewed to studs with 0-578 in, long lype W coarse thread steel scrows at 8 /v. DC at perimeter and in the held with the lest 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 borizontally,

4P. Gypsum Board* -- As an Alternate to Receive 5/8 in their applied either horizontally or vertically loner layers fastened to framing with 1-1/4 in, long Type W coarso thread gapture panel steel scenos spaced a max 5 in ICC, with last screw 1 in from edge of board. Outer layers testened to kaming with 1-7/B in. long Type Wirearse thread gypsum papel steel screws spaced a max 8 in. OC, with last screw 1 in, kom 👘 edge of board. When used in widths other than 48 (n, gypsum board to be installed horizontally, Adjoints in face layers staggered with joints in base layers, Joints of each base layer offset with joints of base layer on opposite side.

REVISIONS:

CERTAINTEED GYPSUM (MC --- lyzes (GRG GVasRed, GlasBag 2, Lype C, Lyze X 3, Fas-Ude Lype X, Ster-FX,

45 Gypsum Board* — (As an elternate to item 4. For use with Item 13A) — S/8 in, thick, two layers applied vertically. Inner layer attached to studs with the 1-7/8 in Inails spaced 6 in IOC. Other layer altoched to studs over inner layer with the 2-3/8 in long havs spaced 8 in, OC. -Vertical joints located over study. All joints in face layers stuggered with joints in base layers, mints of each base layer offset with joints of base. layer on opposite side

AMERICAN GYPSUM CO --- Types AGX-1

BEIJING NEW BUILDING MATERIALS PUBLIC (TO CO --- Type OBX-1)

CABOT MANUFACTURING BLC --- '5/3 Type X'

CGC (NC --- Type SCX -

PANEL REVISIA -- Type P8X

SIAM GYPSUM (NOUSTRY (SARABURI) COLTO -- Cype (X-)

THAL GYPSUM PRODUCTS PCL -- Type 2

UNITED STATES GYPSUM CO --- Type SCX

USG BORAL DRYWARL SEZ LLC --- Types SCX -

USG MERICO S A DE C V --- Bype SCX

4T Gypsum Board*--- (A) an alternate to Stem 4. For use with Item 13B) --- Any 5/8 in Thick, 4 ft, wide, Gypsum Board Ister) in Item 4 above Two Report applied vertically with vertical joints centered over study and staggered one studicavity on opposite sides of study. All joints in -outer layers sladgered with iomts in moer layers. Inner layer attached to study with 1-5/8 in. long Type W coarse thread bypsum papel steel screws spaced 8 to IOC at perimeter and in the held. Outer layer attached to study over inner layer with the 2-1/2 in, long Type W coarse throad gypsum banel step! screws spaced 8 in, OC, -

4U. Gypsum Board* — (As an alternate to item 4. For use with item 13C) — Any 576 is, thick 4-b, wide, Gypsum Board listed in Hern 4 above. Two kivers applied vertically with vertical joints centered over study and staggered one studicavity on opposite sides of study. All joints in outer layers staggered with joints in inner layers (oner layer attached to study with 1-1/4-io, long Type Wiscrews spaced 6 m. OC at perimeter and in the field. Outgotager attached to study over inner layer with 1.7/8 in long Type Wistnews spaced 8 in 0.01

5. Molded Plastic* — Not Shown. Optional — Solid weyl siding mechanically secured over the nuter layer to framing members in accordance with manufacturer's recommended installation details.

ALSIDE, DIV OF ASSOCIATED MATERIALS INC. GENTER BUILDING PRODUCTS LTD

VYTEC CORP

 Steel Framing Members* — (Optional Not Showed --- Furring channels and Steel Framing Members as described below. A. Furting Channels — Formed of No. 25 MSG galvistee! 2-9/16 m. or 2-23/32 m. wide by 7/8 m. deep, spaced 24 in. OC percendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 m. and fied together with double strand of No. 18 SWG goly steel wre near each end of overlap. As an elternate, ends of adjoining channels may be overlapped 6 in, and secured 👘 together with two solidapping #6 framing screws min. 7/16 in, long at the priopoint of the overlap, with one screw on each flange of the channel. Wallboard attached to furring channels as described in Rem 4.

R. Steel Framing Mombers* --- Used to attach forcing channels (stem fa) to study. Clops spaced 48 m. OC , and serviced 19 study with No. 8 x 2-1/2 in: marke drywall sciew through the center growmet. Furring chaonels are Piction fitted intruction, ESIC-1 dip for use with 2-9/16 in: wide fuming channels. RSIC-1 (2.75) clip for use with 2-23/32 in: wide furring channels. PAC INTERNATIONAL LL C -- fysics ASS(-1, ASIC 7 (2,75))

6A Steel Framing Members! — (Optional, Not Shown, As an elemate to flem 6) --- Furning channels and Steel Framing Members as described below:

A. Furring Channels — Formed of No. 25 MSIG gain steel. Spaced 24 in. OC perpendicular to study. Channels secured to study as destribud in Hem 5 Ends of adjoining chancels overlapped G in land bee together with double strand of No. 38 AWG galvarreed steel wire, Sypsum board attached to furring channels as described in hem 4.

D Steel Framing Members* — Used to attach formers channels (Steen 6Aa) to study. Clips spaced 48 m. OC , and secured to study with 2 m. coarse doywall science with 1 m, many washer through the center sple Pharing channels are friction littled into ripps STUDCO BUILDING SYSTEMS --- SESUMOUND Sound Itelation (Fips - Type A2378 --

68. Steel Framing Members" — (Optional, Not Shown, As an alternate to Item 6) --- Furning channels and Steel Framing Members as descripted below

A. Furring Channels — Formed of No. 35 MSG gain steel. Spaced 24 in IOC perpendicular to study. Channels secured to study as described in item 68b Ends of adjacong characts overlapped 6 in and tent together with double strand of No. 18 AWG galvanized steel were. Sypsum board attacked to furring channels as resurbed in Item 4.

8. Steel Framing Members* — Used to attach furining channels (Item 68a) to study. Clips spaced 48 in. OC, and secured to study with 2-1/2 in, coarse drywell screw through the center hole. Furring channels are friction fitted into clips -REGUPOL AMERICA - Sync Servers Ep-

60 Steel Framing Members* --- (Optional, Not Shown, As an alternate to Ham 6) ---Resilient channels and Steel Framing Members as --

descripto below: a Resilient Channels — Formed of No. 25 MSG galv steel, spaced 24 in IOC, and perpendicular to study. Channels serviced to study as described in Item 5 Ends of admining (Rannels overlapped 5 in, and secured to place with two Nn, 5 15 x 1/2 to Philips Modified Truss sciences spaced 2-1/2 to from the center of the oversiap. Gypsum board attached to resident channels as described in item 4.

b. Steel Framing Members? — Used to attach resident channels (item 6Ca) to study. Clos spaced 48 in: OC, and secured to study with No. 8 × 2-1/2 in, coarse drywall screw through the center hole. Resilient channels are secured to clips with one No. 10 × 1/2 in, pan-bead sall-drilling

KEENE BUILDING PRODUCTS CO INC ---- Type 80 + Assurance Clar-

6D Steel Framing Mombers* ~- (Optimal, Not Shown, As an alternate tri hem 6) ~- (Seri as an alternate method to attach modern champels to wall study. A resident shund isolation accessory shall be used at each attachment point of the resident channels and spaced may 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 bold resilient channels that support the gypsum board and 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 improvacturor's instaliation instructions.

PAC INTERNATIONAL LLC -- Type RC(1) Boost

described below

6E Steel Framing Members* — (Optional, Not Shown, Ay an alternate to Rem 6) -- Furong chasses's and Steel Framing Members as

a Furring Channels — Formerl of No. 25 MSG galvistes!, 2-23/32 in, wide by 1/8 mildeep, spaced 24 in, OC perpendicular to study, Channels secured to stude as described in item b. Ends of adjoining channels are overlapped 6 (n. and bed together with double strand of No. 18 SWG galvisteal waa near each and of overlap. As an alternate, ands of adjoining channels may be overlapped 6 in and secured together with two self topping #6 fracting 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 rescribed in Item 4.

b Steel Framing Members* — Used to attach forming chapters (Tens 6EA) to study. Clips spacest maximum 48 in IOC, Clips second to study with No. 8 x 2-172 in, coarse drywall screw through the center grommet. Furting channels are faction filled into clips.

CLARKINETRICH BUILDING SYSTEMS --- Type Carefuelath Source Up -

7. Furring Channel — Optional — Not Shown — For use on one side of the well with Item 4K --- Resiliont channels, 25 MSG galvisteri, spaced vertically 24 in IOE, Sange portion screw attached to one side of studs with 0-174 in, long diamond shaped point, double lead Phillips head steel screws. When resilient channels are used insulation, them 8 or 9 is required -

8 Batts and Blankets' --- Required for use with resident channels (teen 7, min 3 in tinck remeal wool batts, placed to fill interior of walk, attached to the nosi 4 in take of the study with stepley placed 24 in OC -

ROCIONOOL --- Type SAFEPSCOND, rolp 7,8 pcf.





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SHEET TITLE

UL ASSEMBLIES - P545 / U301

PROJECT NUMBER: 23098

THERMARIBER INC. - Type SAUR, SARR FF.

9 Batts and Blankets* — (As an alternate to hem 8) -- Min 3 in, thick glass filter batts bearing the UL Classification Marking as to Surface -Burrang and/or Fice Resistance, faction, filted to 68 the studicavities. See Batts and Blankets (BKNV or BEJZ) Categories for names of Classified companies.

9A. Fiber, Sprayed* — (Optimized) — As an elemente to Batts and Blackets (item 8). Required for use with resilient channels, Item 7. Not for use with 4em 5, 6A, 6B, or 6C, -- Soray applied mineral wool insulation. The filter is applied with adhesive, at a minimum density of 4.0 pc), to completely fib the enclosed cavity in accordance with the application instructions supplied with the product. See Hiber, Sprayed (CCA2). AMERICAN ROCKWOOL MANUFACTURING, LLC - Type Represed Promote Play

10 Wall and Partition Facings and Accessories* -- (Optional, Not Shown) --- Nominal 1/2 in, thick, 4 it 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-550 or QR-510 pooel is optabled between the wood transing and the GL Classifiert gypsime board, the required QL Classifiert gypsion lsoard layer(s) is/are to be obtabled 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 layerist of UC Classified Sypsum Board. PARCO SUNCTING PRODUCTS 1 L C, DRA PARCO GYPSUM -- Type Queckeek QR 500 of QR 500 -

11. Cementitious Backer Units* — (Optional Item Not Shown -- For Use On Face Of 2 Hr Systems With AR Standard Items Required) --- 7/15 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 study. Face layer fastened over gypsum brand to study and runners with cement board screws of adequate length to penetrate stud by a minimum of 3/8 in for steel featuring members, and a minimum of 3/4 to for wood framing members spaced a max of 6 in OC -NATIONAL SYPSUM CO — Type DuraBacker, PermaBase, SuraBarker Pics, or PermoBase Dus

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 waitione of the following Walt and Partition and Pacing Accessories may be used, refer to items (A) to (C) below. A. Non insulated system with metal channels — Install modelure barrier over the System Board item 4 and Install Acry Metal Channels vertically at a borizontal spacing not greater than 24 linches GC, over the prosture barrier. Acry Metal Channels attacized through the moisture barrier and the Gypnum Board to the Wood Study many festeners specified by the manufactury, and languages spaced max, 74 in OC Install Accytes Banession Acry Metal Channels using 1-3/41 long comusion material stainless steel screws spaced at a max spacing of 74 inches OC, along with manufacturer's approved adhesive (3M 540 priTremice Volcom 115). Adhesive to be applied in a zigzag pattern along – every channes, Joint treatment in between panels shall be Trenko rilmod 500 pre compressed polyurethane foam sealant

8. Insulated system with metal channels — install moistury barrier over the Gypsum Board Hem 4. Install galvanized 2 girt channels specified by the manufacturer over the moisture barrier and the Gypsum Board stein 4. Zigin channels to be installed horizontally at a max. spacing of 24' OU Z gim channels attached through the Gypsum Board and the moisture barrier to the wood studs with screws provided by the manufactures at a max spacing of 24 inches OC ligital inspect wool insulation between the 2 girls. Maximum thickness of mineral wool resulation on the exceed 6 in Ay per manufacture's instructions install Agry Metal Osamels vertically over the Z girts at a max barizontal 👘 spacing of 24 in OC. Anytex Papels tostated on Acry channel with 1-1/4' long corrosion coaterlistaintess steel screws at a max spacing of 24 in in. OC. along with manufacturers approved adhesive (3M 540 or Tremos Vulcum 116). Adhesive to be applied in a zigzzg pattern along every channel Joint treatment in between panels to be Trenco (Imod 600 pre compressed polyurethane foam sesiant

C Non insulated wood strapping system — install moisture barrier over the Gypsum 8card Hern 4 and install 31 x 31 wood strapping vertically at a borizontal spacing not preater than 24 inches GC, over the proisture borrier, 1" x 31 wood strapping attached through the moisture barries and the Sypawin Roand to the Wood study using fasteners specified by the manufacturer and fasteners spaced may, 24 in OC Acryte() Pangly to be installed on the 11 x 32 wood strepping using menufacturers approved standard week fasteners spaced at maximum 24 inches XX along with Tremop Vulcum 116 adhesive applied m a zigzag pattern along every wood strap. Joint treatment in between panels to be Tremco illmod 600 pre compressed polycrethane foam sealant.

D. Insulated Wood Strapping System — anstali moisture barrier over the Gypsum Board hem 4. Install Extruded Polystyrens Insulation over moisture borrier and the Gypsum Board Item 4, may thickness of insulation pot to exceed 4 inches Tostali 31 k S1 wood strapping vertically at a 👘 horizontal spacing oct greater than 24 inches OC Wood strapping attached through the Insulation, the Sypsum Bourd and moisture barner to the Wood Study using fasteners specified by the manufacturer and fasteners spaced max. 24 in IOC Arrytec Pariels to be installed over the wood strapping using manulacturers approval stainless step fasteriers at a max spacing of 24 m. OC and Tremen Vulcion 116 adhesive applied in a zigzag pattern slong every wood strap. Joint treatment in between panels to be Tremon illmost 600 pre compressed polycethane foam sealant.

ACRYTEC PANER INDUSTRIES --- Normal S/Sinch that Acrytec Pagel

13. Foamed Plastic* — (Optional Not Shown - For use with Item 40) --- Spray applied, foamed plastic insulation, AL any Utickness (rom partial fill to completely filling stud cavity. SES FOAM INC — Nexteal ** 2.0 or Nexteal ** 2.0 (L. Spray Foam and Secretarial Spray Foam. For use in Bearing and Neo 1 and Bracing Water

13A Foamed Plastic* --- (Optional, Not Shown - Fox use with (text 45) --- Spray apolied, toamed plastic insulation, at any thickness from -partial Pilito respliciely filling stud cavity. HOLCIM SOLUTIONS AND PRODUCTS US, LLC --- Types GacoEZSoray F4500, GacoProFX FRES008, Gaco 052N, GacoOnePass F1950, GacoOnePass Low GWP F1980, and Gaco Wallfoam 18343

136. Foamed Plastic* — (Optional Not Showa - For use with Item 47) --- Spray applied, foamed plastic insulation, at any thickness from partial \$8 to completely filling stud cavity. CARLISLE SPRAY FOAM INSULATION --- Types Swettite ONE Seattice Pro Closed Cell (CC), Seattice Pro Open Cell (CC), Seattice Pro OCK, Swettice Pro No --Trim 21, Seathite Pro One Zeto, Poensurate Closed Cell, Rozansulate OCX, Roamoulate 70, and Roamoulate HPO -

16C. Foamed Plastic" - (Optional, Not Shown - Mz use with Item 491 - Stray applied, foamed plastic insulation, at any thickness from partial 69 to

BASE CORP -- Types Epectre R. NM, Energie R. G. PET78R, Spravole R. 173, Sprayore R. 21205, Walloto R. 200, Wallote R. US - Mallote R. US -- M. Wallote R. HF+-Spraysize # Comfort XI, and WaPMe X XI -

14 Foamed Plastic* — (Optional, Not Shown - For use over Gypsum Roard, Item 4) - Polyisocyanurate idamed plastic boards, any thickness applied vertically with vertical joints located over study. May be used with Moxied Plastic, hern S or any exterior facing, as authorized by the Authority Baving kinsidetics and installed in accordance with the manufacturer's installation instructions HUNTER PANELS, A DIVISION OF CARLISEE CONSTRUCTION MATERIALS, LEC --- "Xui Class A", "Xui 2001, "Xui Toil" (Class A", "Xui Cu', "Xui Cu' CS NR1, 1XO FOR MR1

15. Building Units* — (Optional, Not Shown - For use over Gypsum Board, Rem 4) Polysocyationale composite foamed plastic boards, any thickness, applied vertically with vertical joints located over study. May be used with Molded Plastic, item S or any extenor facing, as authorized by the Authority Having Jurisdiction and installed in accordance with the manufacturaris instalkation instructions. MURITER PANELS, A DIVISION OF CARLISLE CONSTRUCTION MATERIALS, LLC --- "Xet No", "Xet Phy"

76 Building Vults - (Optional Item Not Shows - For ize over Syssem Poent, Rem 4) 7 in. 2 in lord in thick, 4 ft, wide - Applied vertically or horizontally with vertical joints contered over study. Eastened to study and runners with water head scows of adequate length to penetrate fracting by a restinuum of of Wiles, spaced a year 6 is, c.t.

NATIONAL GYPSUM CD - Type PPCI

completely 99ing said cavity.

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

last Diplated on 2033-09-19

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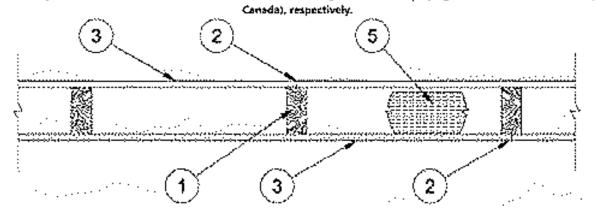
BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States BXUV7 - Fire Resistance Ratings - CAN/UEC-S101 Certified for Canada See General Information for Fire-resistance Ratings / ANS//UL268 Cartified for United States

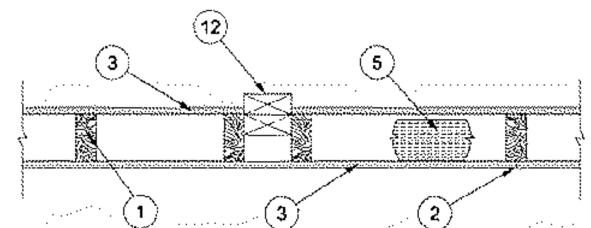
Drsign Cateoa and Allowable Variances See General information for the Resistance Ratings - CAN(382-516) Centred Relicance Design Cateria and Allowable Senerices

September 19, 2023

Bearing Wall Rating - 1 Hr Finish Rating — See Rems 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





1. Wood Studs --- Nom 2 by 4 in, spaced 16 in, OC max, effectively identiopped.

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

3 Gypsum Board* --- 5/8 in thick paper or viny's surfaced, with beyeled, square, or tapesed edges, applied either horizontally, or verteally, Gypsian panels holised 7 in OC with 56 compositionated halfs 1-7/8 in Jong, 0.0815 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 attacturient of gypsum panels, refer to Hems 6 through 6H. Steel Framing Members* When thems 6, 68, 60, 60, 66, or 69, Steel Framing Members", are used, gypsion papers attached to during channels with 3 us tong type 5 bugie head Meet sevens appared 12 m, CC.

When them 64, Steel Framing Members*, is used, two layers of cypsulo panels attached to furning chaptels, Sase layer attached to furning chaptels with 1 in long Type Situation in the stress spaced 22 in OC. Fact layer attached to Furing channels with 1 S/S is, long Type S hegle head steel strews spaced (2 in, CC, A8 joints in face layers staggered with joints in base layers. One layer of gyosum board attached to coprosite side of word stud without furring channels as described in Itom 3.

When 9em 7, resident channels are used, 5/6 in thick, 4 It were gypsion panels applied vertically. Screw attached lurring channels with 1 in long, selfululing, self-tapping Type 3 or S-12 steel screws apaced 8 m. OC, wethout points located medway between study. AMERICAN GYPSUM CO -- Types AGX: USreals rating 22 min.) M. Glass (fresh rating 23 min.), Type AGX: 11 (final) (using 26 min.), Type AGX: 12 (fresh

BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO --- Type OSX-1 (firesh rating 24 mint -

CABOT MANUFACTURING BLC - Type X (firmh rating 22 min), 5/6 Type X, Mondum Resistant Type X, Gypnum Sheathing Type X, Mord & Mildew Resistant Type X and Mold & Mildew Resistant AS Type X, Type Blong/ass Exterior Sheathing

CERTAINTEED GYPSUM JNC --- Type C, Type X-1 (thist rating 26 mm), Type LUKG or Glasher (thisb rating 23 mm), Giasher-2, Type (latete (thisb rating -28 min), Type LWTX (Unish relay 19 mp), Type LGZC6A (Torsh rating 34 min), Type LGZC2A, Type LGEC-C/A, Type LGEC-WD, Type LGELX (Unish rating 21) munt, Type CEEX (thrush rating 24 mms)

CGC INC --- Type AR (limith rating 24 min), Type C (limit) rating 24 min), Type IP-AR (lmist rating 24 min), Type IP-CAR (limith rating 24 (Inish reang 24 min), Type IP-X2 (Inish rating 24 min), Type SCX (Inish rating 24 min), Type SEX (Inish rating 24 min), Type UCX (Inish rating 22 min), Type WRC double rating 24 rates, type WRX (Inixh rating 24 min), type 60% (firsh rating 20 min) -

GEORGIA-PACIFIC GYP5UM 1 L C -- Type 5 (finish ratiog 25 mm), Type 6 (finish rating 23 mm), Type 7 (finish rating 26 mm), Type C (finish rating 25 mm), Type OGB (Sinsh rating 20 min) Type GPESS (Sinish rating 20 min) Type GPES2 (Sinish rating 20 min) Type GPESE (Sinish rating 26 min) Type OS Type DAP, Type OD (Enish rading 20 min), Type DA Type DAPC, Type IS (fairb mixing 23 min), Type X, Veneri, Planter Base - Type X, Watter Base - Type X, Sheatbiag Type X, Sof01 - Type X, Type (WX (Inish rating 23 min), Vener: Flaster Base-Type (WX (Tinsh rating 23 min) Water Rated -Type (WX (Tinsh rating 23 min) Sneathing Type-UWX (Erish raying 22 mm); Soffin Type EWX (Erish raying 22 mm); Type SOLW (Imish rating 22 mm); Water Rated-Type DSOW (Finish rating 22 mmt, Sheatborg Synex DGWV Sinsh rating 22 mini. Sofid-Syde DGWV (Finish rating 22 mini). Type GWX (Finish rating 22 mini). Type GWXX (Finish rating 22 mini). insin), Vennez Baster Sana – Type IW2X (Fiersh rating 20 min), Water Bated – Type IW2X (Fiersh rating 20, min) – Steathing – Type IW2X (Feinh rating 20, min) – - Soff4 - Type LW2X (Binish rating 22 min), Type DGI 2W (Fraish rating 22 min), Water Rated - Type DGI 2W (Fraish rating 22 min), Shriathing - Type DGI 2W -(linish rating 22 min);

Design/SystemaConstruction/Adsentially Usage Oscilander.

Authorities Having knowledge in should be consulted in all cases as to the particular requirements unveroig the installation and use of

• Fire insertance assembling and productly are developed by the design submitter and have been investigated by DL for compliance with applicable requirements. The published reformation cannot always address every construction means 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 named for the design. Overs of fire resistance assemblies are advased to uppeut the general Guide information for PACC product rategory and each group of assembles. The Guide Information includes specifics concerning alternate maternals and alternate

Design No. U305

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

rating 22 mint Type EightRoc (Inish setting 23 minution Type AG-C

- NATIONAL GYPSUM CO + Type FSK (fields rating 20 mint Type FSK IS (fields rating 20 mint, Type FSK) (fields rating 20 mint Type FSK) (fields rating 24 ratio), Type FSW-3 (First-binating 20 mint, Type SSW-5 (Faich ratiog 22 mm), Type FSW-6 (Faich rating 20 mint, Type FSW-6 (Faich ratiog 20 mint, Type FSW-6 (Jurah rating 20 min), Type F5M8+C, Type (SW-6 (Innet rating 20 mm), Type F5C (Innet) rating 24 mm), Type F5W-8, Type F5EX (Innet) rating 25 mm), Type -RSX (freish rahag 25 mm)

NATIONAL GYPSUM CO --- Riyadh, Szudi Arabia --- Type FR, or WR.

PASCO BUILDING PRODUCTS LLC, DBA PABCO GYPSUM --- Types C, 5G-2 (Final) rating 20 min;, PG-3 (Final) rating 20 mm), Types PG-3W, PG-SW thresh resins 20 mint, Type PG-4 (finish rating 20 mint, Type PG-6 (finish rating 22 mint, Types PG-6WS, PG-5WS, PGS-WRS (finish rating 20 mint), Types PG-5, PG-9 (Existrating Zerma), PG-33 (PG-33 (PG-8 increased to 2 in), type PG-6 or PGP (Enistration 26 min).

PANEL REY 5 A -- Type ARX, BREX, GRIX, FRX, FRC, FRCX, Types RRX, Surent Rey, MDX, ETX (Smish rating 22 min), FRX2 (Baish rating 21 min)

SIAM GYPSUM INDUSTRY (SARABURI) COLLTO --- Type DV-1 (Involvement 26 Min)

THA! GYPSUM PRODUCTS PCL --- Type C, Type X (Brich rating 28 min)

UNITED STATES GYPSUM CO --- Type AR (ficial: cating 24 inter, Type C (ficial: cating 24 inter, Type FRX-G (ficial: cating 29 ptin), Type FR-AR (ficial: cating 24 inter, Type FRX-G (ficial: cating 29 ptin), Type FRAR (ficial: cating 24 inter, Type FRX-G (ficial: cating 29 ptin), Type FRX-G (ficial: cating 20 ptin), Type FRX-G (ficial: cating 20 ptin), Type FRX-G (ficial: cating 2 mont, Type (PC-AR (Enist: Jetting 24 mm), Type (P-X3) (Enists rating 24 mm), Type (P-X2) (Enist) rating 24 mint, Type SEX (Enist) rating 24 minit, Type SGX (finish rating 24 min). Type USX (durish rating 22 minit, Type WRX (lumish rating 24 min), Type USX (limish rating 24 min). Type USX denish rasing 20 min)

USG BORAL DRYWALL SFZ LLC -- Type SGX (fioish rating 24 min)

USG MEXICO S A DE C V --- Type AR, Ginst Liating 24 mint, Type C (Finds Lating 24 mint, Type WRX (Inish kating 24 mint, Type WRX (Inish kating 24 mint, Type (P-81 (Inish rating 24 min), Type (P-82 (Inish rating 24 min), Type SHX (Inish rating 24 min), SCX (Inish rating 24 min), Type (P-85 (Inish-rating 24 min), Type (P-85) (ron), Sype (PC, AB (Keish Johng 24 mm), Type UL8 (Srish rating 20 minu).

5A. Gypsum Roard* — (As an alternate to item 31 --- 5/6 in, thick gypsum panels, with beveloci, square, or tapered edges, applied either horizontally or vertically. System panets fastened to framing with 3-174 in, long Type W coarse thread gypsum panel steel screws spaced a max first OC, with last screw 1 in them edge of board. When used in widths of other than 46 st, gypsimil loands are to be installed. hosepontally

AMERICAN GYPSUM CO -- Types AGX-1 (finals rating 75 min), M-Gass (finals rating 25 min), AG-C Swish (atog 25 min), EghtRec (finic) (atog 25

CERTAINTEED GYPSUM INC --- Type C. Type X-1 (Intestinating 20 mm), Type EGRG or GlasBox, CVTX

CGC INC --- Type AR dividu rating 24 mint, Type C (Boish rating 24 mint, Type (P) AR dividu rating 34 mint, Type (P) AL (linch rating 24 min), Type IP-X2 (brist) (string 24 min), Type SCX (brist) rating 24 min), Type SPX (brist) rating 24 min), Type WRC (brist) rating 24 min), Type WRX (linish rasing 74 min)

NATIONAL GYPSUM CO -- Type FSW (finish rating 24 mm)

UNITED STATES GYPSUM CO --- Type AR (Inish rating 24 min) Type SCX (Inish rating 24 min) Type SCX (Inish rating 24 min), Type C (Inish rating 24 onol, Type WBX (Enish ranng 24 mm), Type WBC (Enish rating 24 mint, Type IP-X1 (Enish rating 24 mint), Type IP-X2 (Enish rating 24 mint), Type SHX (Enish rating 24 min), type FRX-G (fract rating 24 min), type IP AB (finish rating 24 min), type (PC-AB (finish rating 24 min)

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

- USG MEXICO 5 A DE C V --- Type AR thresh rating 24 mint, Type C (thresh rating 24 mint, Type WRX (thresh rating 24 mint, Type WRX (thresh rating 24 mint, Type (F-81 drugh rating 24 min), Type (F-82 (furth rating 24 min), Type (F-84 (furth rating 24 min), Type (F-88 (furth rating 24 min), Type (F-88 dinish rating 24 rain)

58. 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 1-378 m, long Type W coarse thread gypeuro paneristeel screws as described in item 3A.

UNITED STATES GYPSUM CO - Type: AR 19 AS

USG MEXICO S A DE C V ... Types AS, (F.Ak)

30 Gypsum Board* — (As on extensite to filams 3, 3A and 38) --- \$78 in thick, 2 ft wide, tongue and proceeedge, applied horizontally to one. side of the assembly, installed with 1-7/8 in long cement costor hells as deprived in hem 8 or 1-1/4 in long Type W course thread gypsum panel steel screws as described in Item 34. Joint covering (Item 2) not required CGC SNC --- Type SRX

UNITED STATES GYPSUM CO --- Type SIX

USG MEXICO S A DE C V --- Type SIRC

3D. Gypsien Board* -- (As an alternate to Rems 3, SA, 39, or 3C -> Not Shown) -> For Direct Application to Study Doly. Norn 5/5 in thick lead backed gypsum panels with heypled square or tapened engret, applied vertically. Vertical joints centered over study and stangered min 1 studi ravity on opposite sides of studs. Welsboard serviced in studs with 1-5/8 in long Type W coarse libread gypsum panel steel screws spaced 8 in. OC at permeter and in the field. Lead battern strips required behind vertical joints of lead backed gypsum washoard and optional. al remaining stud locations, sead batter, strips, min 1-172 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 bollom of the strip. Lead discs or tabs may be used in lieu of or in addition to the lead batten stops or optional at other ideations. Max 3/4 in tham by max 0.125 in thick lead discs compression fitted or adhered over steel screw beads or may 1/2 in by 1-1/4 in by max 0-125 in thick lead tabs placed on gypsim boards underreath strew locations prior to the installation of the strews. Lead batter stres to have a purity of 99.5% injecting the Perferal specification QQ-1-2019 Grade "C"

RAY-BAR ENGINEERING CORP ---- Type RR-UEG (Enistitating 24 ma)

36 Gypsum Board? — (As an atternate to Items 3, 3A, 3B, 3C, and 3O1 --- 578 in, thick gypsum panels, with sovere edges, applied either horizontally or vertically. Gyosom papels fastened to framing with 3-1/4 in, long Type W coarse thread gypsum panol steel screws spaced a max Six, OC, with lost 2 screws 1 and 4 in from edge of board or nailed 7 in IOC with 6d cement coated hards 1 7/8 in, long, 0.0915 in, shank dism and 35/64 in diam brads. When used in wedths of other than 46 in , gypsum boards are to be installed horizontally GEORGIA-PACIFIC GYPSUM LLC -- Type DGG (lingth rating 20 min), GreenGlass Type X thresh rating 73 min)

31. Gypsum Board* — (As an alternate to frems 3, 3A, 30, 30, 30, and 30) --- 5/8 in: glass-mail faced with square edges, applied either - borizontally or vertically. Gyosum panets nailed 7 in. OC around the perimeter and in the field with 6d cement coated nails 1-7/8 in. long. 0.0916 in shank diam and 15764 in, diam heads. Nails shall be placed 1 inch and 3 inch from horizontal joints and 2 inch OC thereafter CGC INC --- Type (USGX (Entiminations 22 mm)

UNITED STATES GYPSUM CO -- Type USGX (heigh rating 2) min.)

USG BORAL DAYWALL SFZ LLC -- . Type USBX (Finish ration) 22 min (

USG MEXICO S A DE C V --- Type USGX (finish rating 22 min.)

36. Gypsum Soard? — (As an alternate to items 3 through 3F) — 5/8 in thick paper surfaced applied vertically. Gypsum panels nailed 2 in. OC with 6d comens coated nails 1-7/8 in, long, 0.0915 vs. shank dram and 15/64 in, dram reads. GEORGIA-PACIFIC GYPSUM 1.L.C --- Type X Control/Guard Sound Disadesing Gypsum Boesi (Sinish rating 27 min) ---

34 Gypsum Board* --- (As an alternate to Borns 3) --- Not to be user! with items 6 or 7: 5/8 is, thick paper surfaced applied vertically any - Gypwen panely rested 7 in OC with 6d competitiosterl pads 3-7/8 in Jung, P.0915 in shark diam and 35/64 in class heads. NATIONAL GYPSUM CO --- Type SPWB

31 Gypsum Board* — (As an effectate to flems 3 fbrough 3H, Not Shown) — Notheral 5/8 in thick, 4 ft wide panels, applied vertically, Panels. nailed 7 in: OC with 6d cement coated radis 1-778 in: long, 0.0915 in: shank dram and 15764 in: diam beads. Panel joints covored with paper stape and two layers of joint compound. Nailheads covered with two layers of joint compound -

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REVISIONS:

PABED BUILDING PRODUCTS 1 L C, DBA PABED GYPSUM --- Type ((nimPack FS (forst roting 20 mm))

5). Gypsum Board* — (As an alternate to Item 3) — 5/8 in, thick poper surfaced applied vertically or horizontally. Gypsum panels secured with 1, 7/4 m. Type W coarse thread gypsum banel steel screws spaced a maximum of 12 in IOC. CERTAINFEED GYPSUM JMC --- Type Select(X)

3K Gypsum Soard" — (As an alternate to item 3) --- 5/8 to thick gypsum papels, with howeled, square, or tapered edges, appled ether horizontally or vertically. Gypwim panets fastened to fracting with 3-1/4 in. long Type W coarse thread gypwim papel storel screws spaced a 👘 maximum 8 in. OC with the last screw 1 in. from the edge of the board. When used in wolths other than 48 in, gypsium panels are to be 👘 instelled borbostal/v.

NATIONAL GYPSUM CO --- Type FSK (fields rating 20 mint Type FSK G (fields rating 20 mint, Type FSW) (fields rating 20 mint, Type FSW) 2 (fields rating 24 --mint, Type FSW-3 (small rating 20 mint, Type (SW-5 (lansin rating 22 mai), Type FSW-G (lmish rating 20 mint, Type (SW-C), Type FSW-C), Type (SW-C), (Jorch Learny 20 min), Type FSMR-C, Type FSW-6 (Imish rating 20 min), Type FSE (Imish rating 24 min) -

3L. Gypsum Board* — (As an alternate to item 3) — For Direct Application to Study Only — Noni 578 in (15xk lead backed gypsom panels – with bevelod, square or tapered edges, applied vertically. Vertical joints centered over stude and staggored min-1 studicavity on opposite sides of studis. Weilboard secured in study with 1-5/8 in long Type W coarse thread gydsum panel steel screws spaced 8 in. OC at perimeter and in the field, Lead batten strips required behind vertical joints of lead backed gypsum walkboard and optional at remaining stud locations, Lead batten strips, min 2 in, wide, stax 10 H long with a max thickness of 0.140 in placed on the face of study and attached to the stud with two 3 in long Type Sr8 par head steel strows, one at the top of the strip and one at the hottom of the strip Tead discs, new 5/16 million by maxim 0.140 in thek interpression fitted or advented over the screw beads. Lead hallen strips to have a porty of 99.5% meeting the Federal specification QQ-L-203(, Grades 16, CloridD).

MAYOD INDUSTRIES INC --- 78 Ray Shekded (syssere)

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 gypsium bands with boyeled isquare or tapered edges, applied vertically Vertical joints centered over study and staggered min 1 stud cavity on apposite sides of study. Wallboard secured to study with 1.570 in rong Type W coarse thread gypsium panel steps shows spaced 8 in GC at proimptor and to the field when applied as the base layer. When applied as the face layer strew length to his increased to 2-1/2 in Load battern streps required behind vertical joints of lead backerl gypsium wallboard and optional at remaining stud locations. Lead batten strips, min 2 in, vede, max 8 ft long with a max thickness of 0.14 in, placed on the face of studies and attacked to the studie with construction adhesive and two 1 m long type 5-32 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% moeting the Federal specification QO 1, 2014, Grade 1C1, Pasteners for face layer gypsum panels (hems 4, 4A or 48) when installed over lead backed heard to be run 2 M2 in Type 5 12 hugie bead steel screws spaced as described in Stem 4 -RADIATION PROTECTION PRODUCTS INC --- Type REP - Lead Lored Drywall

3N. Gypsurb Board* — (A) an alternate to them 31 -- 578 m. thick, 4 ft. wide, applied honzontally or vertically with vertical metha entered over studs and steggered one studicavity on opposite sides of studs. Secured as described in Hern 3 or 3A. CERTAINFEED GYPSUM (RC -- Easi Lile Type 8 (East failing 24 mar) Fast Lite Sync 8 2 (East taking 24 mar) -

vertically, Panets notied 7 in OC with 6d content coated natis 3,778 in Jong, 0,0915 in, shork diam and 15764 in, diam heads, Panel joints rovesed with paper tape and two layers of joint compound. Nailheads covered with two layers of joint compound -PASCO BUILDING PRODUCTS LL C, DBA PABCO GYPSUM - Type QuietRock 527 (Inish raining 24 mm)

3P. Gypsum Board* — (As an alternate to Item 3, Not Showo) --- Two layers nom, 5/15 in. Hitck gypsum panels applied versically or 👘 herizontally. Horizontal edge joints and torizonial buttijoints on opposite sides of study read optible staggered or packed by wood study. Horizontal joints on the same side between face and base layers need not be staggered. Base layer gyptum panels fastened to study with 1.1/4 in, long doywali navls spaced 8 in, GC. Face layer gypeum panels fostened to studs with 1-7/6 in, long doywali novs spaced 8 in, GC starting with a 4" stagger.

NATIONAL GYPSUM CO --- Type 7SW (freish rating 25 me)

3Q: Gypsum Board* — (As as alternate to least 3) --- 5/8 in thick gypsum panels, with beveled, square, or tapeted edges, applied other --horizontally or vertically. Gypourb panels fastened to framing with 3-1/4 in, long Type W coarse thread gypourb panel steel screws spaced a maximum 30 in, OC with the last two screws 4 and 3 in, from the edges of the locard. When used in widths other than 48 in, bypsum panels are to be installed horizontarly. CERTAINTEED GYPSUM INC --- Type (16406)4 (Inish totag 21 mag, Type (164024, Type (1640107, Type (164034, Type (164134

38 Gypsum Beard* --- (As an alternate to Item 3. For use with Stem 59) --- Any 5/8 in Thick, 4-9, wide, Gypsum Board intent in Item 3 above Applied either barizontally or vertically, and showed to panels with 1-5/5 in June Type W manse thread steel strews at 8 to IOC at perimeter

and in the field with the last two sciews 4 and 5/4 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.

35. Gypsum Roard* — 5/4 in. thick paper or vinyl surfaced, with bevolod, square, or taperaid edges, applied either horizontally or vertically. Gyosom panels secured as described in Bern 3 with nail length increased to 2 in -PABCO BUILDING PRODUCTS & L.C. DBA PABCO GYPSUM --- Type PG-15

31 Well and Partition Facings and Accessories* — (As an alternate to 5/8 as thick board as outlined in Stein 3) --- Numinal 1-3/8 in Steck, 4 -fl wirle papels, applied vertically or horzportably. Fastened with #5 x 2 in, long drywall screws spaced 8 in, OC along the perimeter and 12 in, ----OC in the field.

PASCO SUILDING PRODUCTS ULIC, DEA PABCO GYPSUM -- Type QuictReek (45)

30. Gypsim Board* --- (As an alternate to Item 3 - For use with Foamed Plastic products, Item SJ) --- 5/8 in thick, 4 fr. wide, applied versically --with vertical joints centered over study and staggered one studinavity on opposite sides of study. Sypsum papels dailed 7 is, OC with 6d tement matrix oats 3-7/8 in long, 0.0915 in shook diars and 15/64 in diam hearly. AMERICAN GYPSUM CO --- 1ypes AGX-1

BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO --- Type OBX-1

CABOT MANUFACTURING BLC ---- Type X

CERTAINTEED GYPSUM INC --- Type: X

CGC (NC ++ Sypt SCX)

PANEL REV S.A. ... Type ARX, PRX.

SIAM GYPSUM INDUSTRY (SARABURI) CO LTD ---- Type EX-2-

THAF GYPSUM PRODUCTS PCL --- Bype X

UNITED STATES GYPSUM CO ---- Types SCX and SGX.

USG BORAL DRYWALL SFZ LLC ---- Types SCX and SGX.

USG MEXICO S A DE C V --- Type SCX -

3V Gypsum Board* --- (As an altestrate to item 3. For use with item 5K) --- Any 5/8 in thick, 4 th, wide, Gypsum Board iisted in Item 3 above --Applied vertically with vertical joints centered over study and staggered one stud cavity on opposite sides of study. Gyavani panets secured to studs with 1-5/8 in long Type W coarse thread gypsum papel steel screws spared 8 in IOC at peometer and in the field.

3W, Gypsum Board* — (As an adomete to Rem 5 For use with Rem 50) --- Any 578 in Ittick, 4 fill wide, Gypsum Board Islact in Rem 3 above - Applied -vertically with vertical joints centered over study and staggered one study eavily on opposite sides of study. Synsum panets secured to study with 1,3,4 in long Type Wikerews spaced Blis. OC at perimeter and in the held

4. Steel Corner Factoriers ---- (Optional) -- For use at wall corners, Channel shapert, 3 in, long by 1 in high on the back side with two 1/8 in -wide clears protricting onto the 5/8 to wide channel, fabricated from 74 gauge galv kiel. Easteners applied only to the end or out edge (out along tapered eriges) of the gypsum board, no greater than 2 in from comer of gypsum board, max spacing 15 in. XC. Nailed to adjacent stud through tablesing one No. 5d cement coated half per fastener. Corners of wall board stall be halfed to top and bottom plate using No 6d comont costed nails.

5. Batts and Blankets" — (Optional --- Required when Item 64 is used (RC-1)) --- Glass fiber or mineral wool insulation, Pared to completely or partially fill the stud cavities. When hem 6A is used, glass fiber or immerative or insulation shall be friction. Fitted to completely fill the stud covides

CERTAINFEED CORP



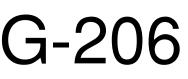




SHEET TITLE

UL ASSEMBLIES - U301 / U305

PROJECT NUMBER: 23098



JOHNS MANVILLÉ KNAUF INSULATION LLC

MANSON INSULATION INC

ROCKWOOL - Types Anoustical Fire Batts and Type ASS into identity 1.69 pcf / 22.0 kg/m³

ROCKWOOL MALAYSIA SON BHD --- Type Acoustical Fire Palts

ROCK WOOL MANUFACTURING CO --- Delto Board

THERMAFIBER INC --- Type SAFB SAFB FF

5A Fiber, Sprayed* — (Not Shown — Not for use with item 5) — As an alternate to Batts and Biankets (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 norminal dry density of 2.7 (h/ft). Alternate Application Method: The fiber is applied without weter or adhesive at a norminal dry density of 3.5 lb/th, in accordance with the application instructions supplied with the and/uct. When hern 69 is used, Filzer, Sorayad shall be INS735, INS745, INS750LD, INS765LD, INS778LD or SANCTUARY

Applogate Greenfiber Acquisition LLC --- Invalmentand SANCTUARY for one with well or day application. INS515LD and INS5431D are to be used for day. application only

58. Fiber, Sprayed* — (Not Shown - Not for use with Stein 6) --- As an alternate to BATM and BABMeth (Junn 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 68 the enclosed cavity. Minimum any density of 4.3 pounds per cubic fit. NELWOOL CO INC - Califolose Institutor

SC Batts and Blankets* -- Required for use with resiliem channels, hern 7, 3 in, thick mineral wool batts, friction finted to fill interior of waik. THERMAFIBER INC --- Tope SALB, SAFE IF

5D. Glass Fiber Insulation — (As an alternate to item 5C) --- 3 in Task glass fiber batts bearing the UI. Classification Marking as to Surface. Summing and/or Fire Repistance, faction-filled to b8 the interior of the wall. See Batts and Slankets (BKNV or BZI2) Categories for names of Classified companies

SE Batts and Blankets" — (Required for use with Wall and Partition Facings and Accessories, Item 30) --- 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 smake developed of 50 or less, inction-fitted to completely fill the studicovidies. See Batts and Mankets Category (BKNV) for names of manufacturors -

SE Fiber, Sprayed* --- (Optional, Not Shown --- Not for use with thems () 6A 68, 6C, or 601 --- As an observate to Batts and Blackets (Perr 5) and from 5A - Spray applied granulated mineral fiber material. The fiber is applied with adhesive, at a exemute density of 4.6 pcf, to completely fill the enclosed navity in accordance with the application instructions supplied with the product. See Fiber, Sprayed (CCA2) -AMERICAN ROCKWOOL MANUFACTURING, LLC --- Type Bookwool Promoted Plas

S6. Fiber, Sprayed* — (Optional, Not Shown — Not for use with Items 6, 6A, 68, 6C, or 6D). — As an alternate to Basis and Blankers (Item 5) – and item SA - Brown Colored Spray applied collupose fiber. The fiber is applied with water to completely fill the enclosed studies vity in accordance with the application instructions supplied with the product. The minimum dry density shall be 4.30 lbs/h 3 -INTERNATIONAL COLLULOSE CORP ---- Cyloar-Rul

511 Formed Plastic* — (Optional -For use with Item 3R) --- Spray applied, formed plastic envirotion, at any thickness from partial (0) to completely filling stud cavity.

SES FOAM INC -- Nextcal** 2.0 or Nexseal** 2.019 Spray Foam and Secretarial Spray Foam -

SI Deleted.

SJ: Foamed Plastic* --- (Optional, Not Shown - For use with Item 3U) ---- Spray applied, teamed plastic insulation, at any thickness from partial ----58 to completely bling shirl cavity HOLCIM SOLUTIONS AND PRODUCTS US, LLC ---- Types Gacc6255ray (4500, GaccPice4/8 FR6500R, Gacc 052N, GaccConePass 41553, GaccOnePass Low GWP F1880 and Gaco Wellspam 188M

5K. Foamed Plastic* — (Optional, NoI Shown - For use with hem 3V) --- Spray applied, foamed plastic insulation, at any thickness from paralal fill to completely filling stud cavity RUSLE SPRAY FOAM INSULATION - Types Seaffile ONL Seaffile Pro Cleved Cell (CC), Seaffile Pro Open Cell (OC), Seaffile Pro OCX, Seaffile Pro No. Tern 21 SealTite Pro One Zero, Foarraizate Closed CMI, Foarraulate OCX, Foarraulate 70, and Foarraulate (IFO)

Si. Formed Plastic* - (Optional, Not Shown - For use with Item 3W) - Sorry appred, formed plastic insulation, at any theorem partial fill to completely filling stud cavity.

BASE CORP - Types Leerine * NM. Energine * G. FE178 *: Spraytite *: 173. Spraytite *: 81205, Wallide *: 200, Wallide *: US. Wallide *: US.-N, Wallide Norwate & Comfort XI, and Washing & XU

6. Steel Franking Members' — (Optional, Not Stowg) --- Furring channels and Steel Franking Members as described below. A. Furring Channels — Formed of No. 26 MSG galvisteet, 2-0746 in, or 2-23752 (n. wide by 778 in, deep, spaced 24 (n. 00 perpendicular to studs. Channels secured to study as described in item b. Ends of adjoining channels are overlapped 6 in and bed together with double strand of No. 18 SWG galvisteel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped () in and secured tragether with two self-tapping A6 framing screws min. 7/16 in, long at the medprant of the revenue, with one screw on each flange of the channel. Sypsum board allacted to furring channels as described in term 3.

Ib. Steel Framing Members* — Used to attach furning channels Ritem 6a) to study. Clips spared 48 in. OC. RSIC-1 and RSIC-1 (2.75) clips secured to stude with No. 8 x 2-372 m, coarse anywall screw through the center growniet, SSIC-V and RSIC-V (2.75) clips secured to study with No. 8 x 1, 1/2 in coarse arywali screw through the center hole. Furning channels are faction fitted into clips, HSIC-1 and RSIC-V clips for use – with 2-9/16 in, wide furning channels, RSIC-1 (2.75) and RSIC-V (2.75) clips for use with 2-22/32 in, wide furning channels. PAC INTERNATIONAE LLC --- Types RSIC // RSIC-V (275); RSIC-V (275) -

6A Steel Framing Mombers* — (Optional, Not Shown) -- Ferring channels and Steel Framing Members on one side of study as descubed.

a. Furring Channels — Formerl of No. 25 MSG galvistest, spaced 24 (n. OC pertend-cular to study, Channels secured to study as described in frem & Ends of adjoining channels are overlapped 5 in, and sed together with double strand of No. 18 SWG gale steel wire near each end of 👘 overiap. Balls and Blankets placed in stud cavity as described in hem 5. Two layers of gyosum board attached to furring channels as described in io hero 3.

Is Steel Framing Members* --- Used to attach furring channels (item 64a) to one side of study only, Clips spaced 46 in OC , and secured to study with two No. 8 x 2-1/2 in coarse drywab screws, one through the brie at each end of the dup if enring channels are friction litted into -

MINETICS NOISE CONTROL INC --- Type Isomex

68. Steel Framing Members* — (Optional Not Showol --- Furting channels and Steel Framing Members as described below: a Furring Channels — Formed of No. 25 MSG galvisteel, 2:378 in, wide by 7/8 in, deep, spoced 24 in IDC perpendicular to study, Channels secured to stude as described in Item h. Ends of adjoining channels are overlapped 6 in and hed together with double strand of No. 18 SWG galvisted wire near cach and of overlap. As an alternate, ends of adjoining channels may be overlap.ped 0 in and secured together with two self-tapping 46 frames screws, min-7/16 in-long at the mirlpoint of the overlap, with one screw rzy each flange of the channel Gypsuns board attached to furring channels as described in Item 3.

Ib. Steel Framing Members* — Used to attach furning channels (Rem 68a) to study. Clips spared 48 in. CC. Gente clips secured to study with No. 8 x 1-3/2 m, coarse drywali screw through the center hole. Furthing channels are fection fitted into clips. PLITEQ INC Type Grove Cip

60 Steel Framing Members* — (Optional, Not Shown) -- Further channels and Steel Framing Members as descubed below -a Furring Channels -- Formert of No. 25 M5G galv steel. Spaced 24 in IOC perpendicular to study. Channels secured to study as described in Stem 5 Ends of adjusting channels given/appent 6 in and tied together with clouble strand of No. 35 AWG galvanized steel write. Gypneric based allacted to furring channels as described in Kem 3.

b. Steel Framing Members* — Used to attach forming chappels (item 6Ca) to study. Clips spaced 48 to OC., and secured to study with No. 2 in, coarse dowall screw with 1 in, cliam washer through the center hole. Furong channels are friction fitted into clips. STUDEO BUILDING SYSTEMS --- RESILMEDING Sound Isolation Clips - Type A237 or A237R -

(D. Steel Framing Members* --- (Optional, Not Shown) --- Furning channels and Steel Framing Members as described below: --a Furring Channels -- Formed of No. 25 MSG galvisteel, spaced 24 m. OC, and perpendicular to study. Channels serviced to study avrescribed in item 5. Eods of adjoining channels overlapped 5 in, and secured to place with a riouble strainf of Nu. 38 AWG twisted steps wire Gypsum board attached In furring chaonely as described in Kerp 3.

b. Steel Framing Membersh — Used to attach forming chaptels Rtem 6Dar to study. Clips spaced 48 in, OCL and secured to study with No. 8 🚈 2-1/2 in: coarse drywall screw through the canter hole. Furring channels are friction fitted into clips REGUPOL AMERICA --- Type Sorand Sp.

a Resilient Channels --- Formed of No. 25 M96 galvistee), spaced 24 in IOC, and perpendicular to study. Channels secured to study as described in here 5 Ends of adjaining Geannels overlepped 6 in, and around in place with two Mr. 8 15 x 1/2 m. Philips Modified Toys sciews spaced 2-1/2 to. from the center of the overlap. Gypsum board attached to resident channels as described to item 3.

b. Steel Framing Members* — Used to attach resilvent channels (item 6f.a) to study. Chos spaced 48 m. OC , and secured to study with No. 8 x 2-1/2 in, coorse drywall screw through the center hole. Readient channels are secured to clips with one No. 10 x 1/2 in, pan-head self-drilling KEENE BUILDING PRODUCTS CO INC + Type RC+ Assurance Cop -

hf Steel Framing Members* --- (Optional, Not Sheen) --- Furming channels and Steel Framing Members as described below a Furring Channels — Formed of No. 25 MSG galvislee(12-23/32 in, wide by 7/8 ro, doep, spaced 24 in IOC perpendicular to study. Chancels secured to study as described in Item b. Ends of adjoining channels are overlapped 6 in, and hed together with double strand of No. 18 SWG galvisteet wae osar each and of overlap. As an alternate, ends of adjoining channels may be overlapped 6 (n, and secured together with two self-tapping 46 framing screws, min, 7/26 in, long at the middoint of the overlap, with one screw on each flange of the channel, Gypsum board attoched to furring channels as described in hern 3.

b, Steel Framing Members* --- Used to attach furring chaptels (item 65a) to study. Diny spaced 48 in: OC Clips secured to study with No.6 x 3:1/5 in marse dowell screw through the center grammet. Further shapped are friction fitted into clips. CLARKOVETRICH BUILDING SYSTEMS --- Type ClarkOverach Sound Chp

-6G. Steel Framing Members* -- (Coltional: Not Shown: --- Used as an attentate method to attach resident channels to wa9 study. A resident sound isolation accessory shall be used at each attachment point of the residient channels and spaced max 16 m. 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 charactive are fastened to the structural members with the screws supplied with the accessory and per the accessory manufacturers. installation instructions PAC INTERNATIONAL LLC --- Type RC-3 Foost

7. Furring Channel — Optional — Not Shown — For use on one side of the wall - Resilient channels, 25 MSG galvisteel, spaced vertically 24 in. OC. Pange portion screw attached to one side of study with 1-3/4 in long diamond shaped point, double lead indigs head steel screws. When replicit channels are used, insulation, items 50 pr 5D is required.

9 STC Rating --- The STC Rating of the wall assembly is 56 when it is constructed as described by Items 1 through 0, except

A Gem 7, sprive --- Naöheads Shall be covered with joint compound.

batts measuring 6-1/4 in thick and 1S-1/4 in, wide,

O, Item 6, above --- Steel Framing Members* Type RSIC-1 clips shall be used to attach gyosum board to study on either side of the well

snund i optral

assembly

- F. Steel Comer Fasteners (hem 4). Filier, Sprayed (hems 5A and 5B) and Sleel Framing Members (hem 6A), not evaluated as alternatives for obtaining STC rating.

10 Wall and Partition Facings and Accessories* — (Optiona), Not Shown) -- Nomina: 1/2 in thick, 4 it 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 *id*. Classified gypsium board, the required UE Classified gypsium board layerist israre to be installed as indicated as to fasterier type and spacing, except that the required fastener length shall be increased by num of 372 ip. Not evaluated or intentied as a substitute for the required layers) of UC Classified Gypsum Board PASCO SUILDING PRODUCTS & L.C., DBA PABCO GYPSUM --- Type QuintRock QR-500 and QR-510

1) Comentitious Backer Units* --- (Optional item Not Sheen --- For Use On Face Of 1 He Systems With AK Standard Items Required) - 7/16 -in , 1/2 to , 5/5 in . 3/4 in or 3 in thick, neo 32 to wide Applied vertically or horizontally with vertical joints centered over starts. Fastened to studs and runners with dement board screws of edequate length to penetrate stud by a minimum of 378 in. for steel framing members, and a minimum of 3/4 m, for wood framing members socied a max of 8 in, OC, When 4 ft, wide boards are used, horizonta joints need not be backed by framma NATIONAL GYPSUM CO ---- Type Devaluation: PermaBase, Devaluation Plan or PermaBase Paul

17. Non-Bearing Wall Partition Intersection --- (Optional) -- Two nominal ? by 4 in study or non-anal? by 6 in study nuled together with two 3 in John 10d nails spacert a max. (6 in CC vertically and fastened to one side of the minimum 2 by 4 in stud with 3 in John 10d valis spaced a max, 16 m. OC, vertically, totersection between partition would study to be Push with the 2 by 4 m. study. The wall partition wood studs are to be framed by with a second 2 by 4 m, wood stud fastened with 3 m, long 30d nails spaced a max, 36 in, OC, vertically, Maximum one non-bearing wail partition intersection per stud cavity. Non-bearing wait 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 stapies to the outer face of one row of study to facilitate the installation of the sprayed liber from the opposite row

14 Mingral and Fiber Board* — (Optional, Not Shown) --- For optional ase as an additional layer to note ode of wall. Non: 1/3 or thick 4 h wide with long dimension pacallel and centered over study. All ached to framing with 2 in. long Type Wisleel screws, spaceri 12 in. OC. The required UE Classified gypaum board layeds) is/are to be installed as indicated as to fastener type and spacing, except that the required restener 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,

HOMASOFE CO - - Storesold Type 440-32

144 Minoral apd Fiber Board* ••• (Optional, Not Shown) — For use with items 149 [44] •• For optional use as an additional layer na one – side of walk Nom-1/2 in thick, 4.9; wide with long dimension parallel and centered over study. Attached to learning with minimum 1-3/8 in long rang shanked nails or 1-174 to loog Type Wisteel screws, spaced 12 to IOC along bharfledges and 24 on OC in field of hourd along intermediate framing. Not evaluated priorteoded as a substitute for the required layer(s) of UE Classified Gypsum Board HOMASOTE CO --- Homasole Type 440-32

14B, Glass Fiber Insulation — (For use with Item 144) --- 5-3/2 in thick plass bler batts bearing the bl Classification Marking as to Surface Surriving and/or Fire Resistance, bloced to fill the interior of the wall, See Batte and Slankers (BKNV or 92J2) categories for names of Classified comparies

14C Batts and Glankets* — (As as alternate to them (48, For use with them (440, 3 in thick mingrat word hatts, placed to 50 interior of walk, attached to the 3-3/2 in, face of the study with staples placed 24 in, OC. THERMAFIBER INC ... Type SAFR SAFR FF

14D. Adhesive — (For use with Item 14A) --- Construction grado adhesive apolied in vertical, surporting inominal 3/8 in, wide beads down the longth of both vertical odges of Mineral and Fiber 8card (Item 14A).

14E Gypsian Board* --- (For use with Item 14A) --- 5/6 in thick, 4 h wide, applied vertically over Mineral and Fiber Board (here 14A) with vertical jointy located asymptoty over stud cavities. Secured to mineral and they beards with 1-1/2 in Type G Strews spaced B in CC along edges of each vertical joint and 12 m. OC in intermediate field of the Mineral and Fiber Board (Item 1440, Secured to nutermost study and bearing plates with 2 m. 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 36 Min. AMERICAN GYPSUM CO ... Type AG C

CGC INC -- Types CLP X2 (PC-48)

CERTAINFRED GYPSUM INC --- 1ype 1.09C-C/A

GEORGIA-PACIFIC GYPSUM & E C --- Bypes S, DAPC, FG-C -

8 Caulking and Sealants — (hot Shown, Optional) --- A boad of ecoustical sealant applied around the participe perimeter for sound control

B. Item 2, above --- Joints As described, shall be covered with Eber tape and joint compound

C. Bem 5, above --- Batts and Bankets* The cavities formed by the study shall be friction fit with 8-19 unfaced fiberglass insulation

El Bern 8, above — Caulking and Sealants (Not Shewn) A head of acoustical sealant shall be applied around the partition perimeter Far

NATIONAL GYPSUM CO + Bypes TSX C, FSW C

PABCO BUILDING PRODUCTS I. LC, OBA PABCO GYPSUM --- 1998 PB-C

PANEL REY S A --- Type F8C

THAF GYPSUM PRODUCTS PCL --- Type 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.(24X7, (PC A8))

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 blier boards applied vertically to study on one side of the wait in between the woort study and the Ui, Classified Synsum Board (Rem 3) Tiber boards installed with 3-174 in Jung, Type W, bugic bead, coarse thread gypsorn board screwy spaced 12 m. 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 3/2 in. Not evaluated or intended as a substitute for the required layer(s) ef OI, Classified Gypsum Board. BLUE RIDGE FIBERBOARD INC - SportStop

146 Building Units - (Optional Pars Not Show) - For use over Signam Baard (nem 3) 1 in. 2 in or 3 in shok, 4 it wate - Applied entitally or hoazontally with vertical joints contered over starty. Fastened to stady and namers with water head screws of adequate length to prostrate framing by a minimum of of Wirn, spaced a maxi8 m, o.c. NATIONAL GYPSUM CO - Type PECT

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

Last Updated on 2023-09-19

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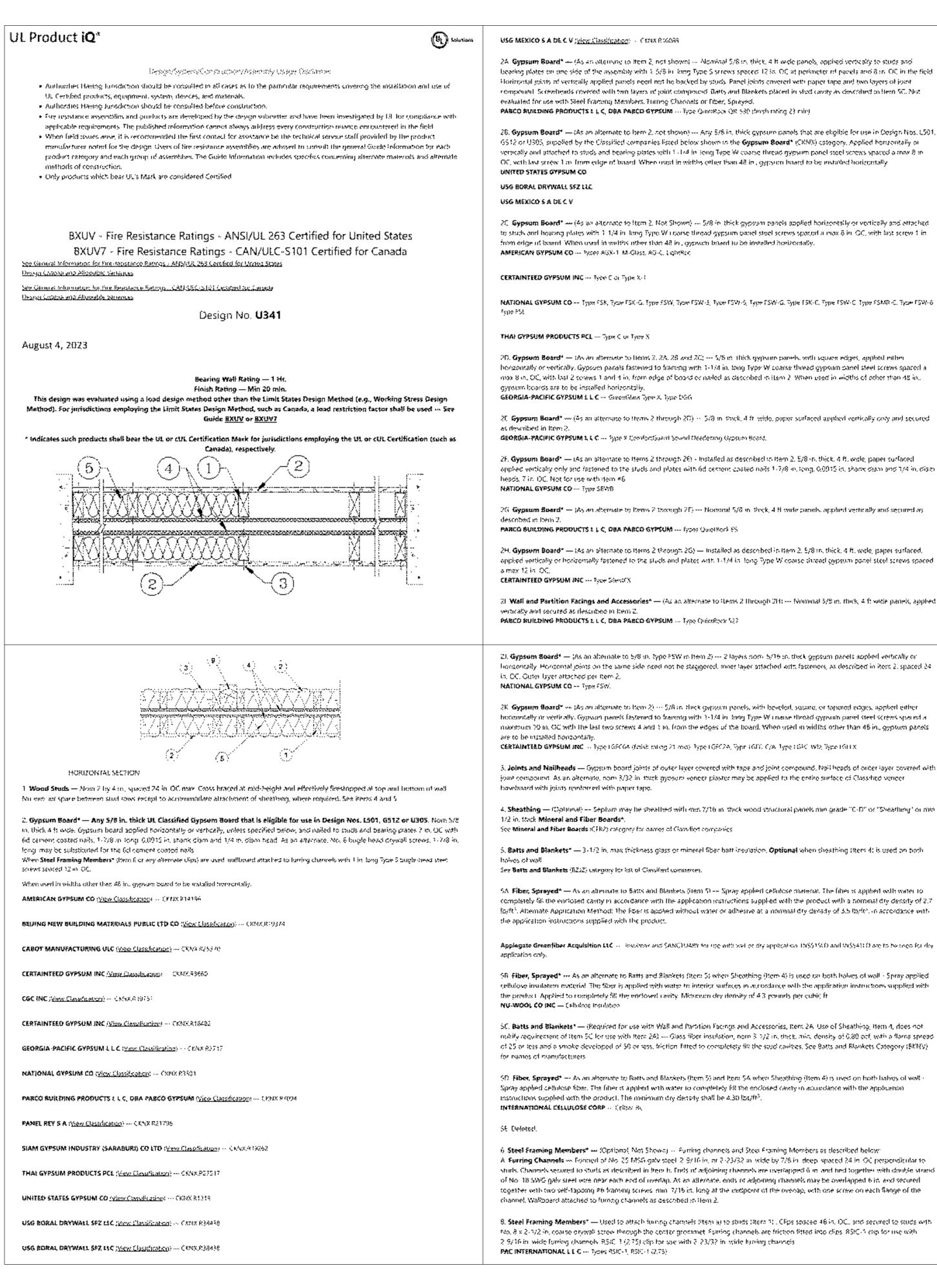
PRINTS ISSUED 11/01/2023 - CITY SUBMITTAL **REVISIONS:**

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SHEET TITLE UL ASSEMBLIES - U305

PROJECT NUMBER: 23098





bearing plates on one side of the assembly with 3.5/8 in long Type S strews spaced 12 is. OC at perimeter of pagels and 8 in. OC in the field Horizzztal joints of vertically applied papels need not he backed by study. Papel joints covered web paper tape and two layers of joints. incompound. Screwhyads covered with two layers of joint compound, Batts and Blankets placed in view cavity as described in Item 5C. Not-

versically and attached to study and bearing plates with 3-124 in long Type W quarke thread gypsum panel specifications spaced a max 8 in

20 Gypsum Board* --- (As an addread to Item 2, Not Shown) --- 5/8 in thick gypsum banels applied barizontally or vortically and attached to study and heaping plates with 1-1/4 in long Type Williparse thread gypsium papel steel screws spaced a max 8 in ICC, with last screw 1 in I

NATIONAL GYPSUM CO -- Type FSK, Type FSK-G, Type FSW, Type FSW-5, Type FSW-6, Type FSW-6,

2D. Gypsum Board* — (As an alternate to Hems 3, 2A, 25 and 2C) --- 5/5 in Thick gypsure panels, with square edges, applied either borgontally or vertically. Gyosum panels fastened to transing with 1-1/4 in, long Type W coarse thread oppsum panels fastened to transing with 1-1/4 in. max 8 in. OC, with last 2 screws 1 and 4 in, from edge of board or nated as described in item 2. When used in widths of other than 48 in.

20. Sypsiam Board* ---- (As an alternate to thems 2 through 20) --- 570 in theek, 4 ft, wide, paper surfaced applied vertically only and second

2F. Gypsum Board: — (As an alternate to Berns 2 through 26) - Installed as described in Bern 2, 5/8 (n, thick, 4 ft, wide, paper surfaced applied vertically only and fastened to the study and plates with 6d cement coaled nails 1-778 in, long, 0.0015 in, shark dram and 774 in, dram

2G Gypsum Board* — (As an alternate to items 2 tocough 2F) --- Noronal 5/6 in Work, 4 ft wirle panels, applied vertically and secured as --

2H. Gypsvm Board* — (As an alternate to Items 2 through 2G) — Installed as described in Item 2, 5/8 in, thick, 4 ft, wide, paper surfaced, enpixed vertically or horizontally fastened to the study and plates with 1-174 in long Type W coarse shread gypsum panel steel screws spaced

21 Wall and Partition Facings and Accessories* --- (As an alternate to (Lems 2 Through 2H) --- Nominal 5/8 in. thick, 4 ft wide panels, applied

2). Gypsum Board* — (As an alternate to 5/8 in: typo PSW in them 2) --- 2 Jayers nom: 5/16 in: thick gypsum pacets applied vertically or --Inorizontally. Horizontal joints on the same side need not be staggored, mnet layer attached with fasteners, as described in item 2, spaced 24

hostenntally in vertically. Gypwon panels festeried to fraceng with 0-1/4 in long Type W character throad gypsoin panel steel screws spaced a maxmum 20 m. OC with the last two screws 4 and 3 m. from the edges of the board. When used in widths other than 46 in, gyptum panels

3. Joints and Nailheads — Syssum board joints of outer layer covered with tape and joint compound. Nail heads of outer layer covered with joint compound. As an alternate, nom 3/32 in itsek gyosum venetz plaster may be applied to the entire surface of Classified veneer.

4. Shesthing — (Optional) -- Septism may be sheathed with miss 7/16 in thick wood structural panels min grade "C-D" or "Steathing" or min-

5. Batts and Blankets" — 3-1/2 in, max thickness glass or minerel fiber batt insulation. Optional when sheathing (Item 4) is used on both

5A Fiber, Spreyed* — As an alternate to Satts and Blankets (item 10 -- Spray applied cellulose material. The fiber is applied with water to completely Six the enriceed cavity in accordance with the application instructions supplied with the product with a nominal dry density of 2.7 Byft³. Alternate Application Method: The liber is applied without water or adhesive at a nominal dity density of 3.5 (b/ft³, in accordance with

Applegate Greenfiber Acquisition LLC -- Residence and SANS/LUARY for the well or dry apple atom 1955/100 and 1955/100 are to be used for dry

-SR Fiber, Sprayed* --- As an alternate to Batts and Blankets (Item 5) when Sheathing (Item 4) is used on both holves of wall - Spray applied cellulose insulation material. The fiber is applied with water to interior surfaces in acrosslance with the application instructions supplied with

SC. Batts and Blankets* — (Required for use with Wall and Partition Facings and Accessories, Item 2A. Use of Sheathing, Hem 4, does not nultify requirement of item 5C for use with item 24) ---- Glass fiber insulation, nom 3-3/2 -n. thick, min, density of 0.80 ocf, with a flame spread of 25 or tess and a smoke developed of 50 or tess, friction fifted to completely till the stud cavities. See Batts and Blankets Category (BKNV)

- SD-Fiber, Sprayed* -- As an alternate to Batts and Blackets (Item 5) and Item 5A when Shirathing (Item 4) is used on both halves of wall -Spray applied cellulose fiber. The fiber is applied with water to completely fill the enclosed cavity in adundance with the application

A Furring Channels --- Formert of No. 35 MSS galvisteet 2, 9/16 in, or 3-23/32 in wide by 7/6 in deep spaced 24 in OC perpendicular to study. Channels secured to study at described in leads to Ends of adjoining channels are overlapped 6 in and hed together with double strand of No. 18 SWG galv steel wee near each end of uverlap. As an alternate, ends or adjoining channels may be overlapped 6 in and secured together with two self-tapping #6 framing sciews, min-7/15 in, long at the initiporer of the overlap, with one screw on each flange of the

8. Steel Framing Members7 — Used to attach joining channels (Hernia) to stude (Herni7) , Clips spaced 48 in, DC., and secured to stude with No. 8 x 2-7/2 in, coarse drywali screw through the conter grootmet. Surring channels are friction fitted into dips. 85(C-1) (kp for use with

6A Steel Framing Members! — (Optional, Not Shown, As an elemate to fiem 8) --- Furring channels and Steel Framing Members as described below:

a Furring Channels — Formed of No. 25 MSG galvistoei, 2-375 in, wide by 778 in, deop, spaced 24 in IOC perpendicular to study. Channels secured to study as described in teach. Ends of adjoining channels are evolutioned () in and field together with double straind of No. 18 SWG goly steel wire near each ead of evening. As an alternate, ends of adjoining channels may be overlopped 0 on and secured together with two self-tapping 06 tracing screws, min 7/16 in Jong at the midpoint of the overlap, with one screw on each flange of the channel. Gypsian board attached to furring channels as described in Item 2.

Is. Steel Framing Members* — Used to attach furing channels (Item a) to studs. Clips spaced 48 in. OC. Genie clips secured to studs with No 8 v 3-1/2 in, coarse drywall screw through the center hole. Furting channels are friction fitted into close PLITEQ INC --- Type Genze Cig

08. Steel Framing Members* --- (Optional Mon Shown, As an alternate to Rem 0) --- Furring channels and Steel Framing Members as -desirbed below:

a Furring Channels — Formed of Vol. 25 MSS galvisted. Spaced 24 on OC perpendicular to study. Channely secured to study as described in Hem b Ends of adjoining channels overlapped 6 in, and teo together with rlouble strand of No. 38 AWG galvanized steel wite. Gypsum board attected to furring channels as described in Item 2.

b. Steel Framing Members" — Used to attach luming channels (item 68a) to studa. Clips spaced 48 in. CC., and secured to studs with 2 in. coarse dowall screw with 7 ic, dram washer through the center hole. Furting channels are friction litted into clos-STUDEO BUILDING SYSTEMS -- RESILMODEN' Sound Indusion Clips - Type A237R

6C Steel Framing Members* -- (Optional, Not Shown As an alternate to Hern 6) --- Furning chaesels and Steel Framing Members as described below:

A. Furning Channels — Formed of No. 25 MSG gate steel. Spaced 24 in. OC perpendicular to studs. Channels secured to study as described in Hem 6Cb. Ends of adjoining chaonels evectapped 6 in, and hed together with doubte strand of No. 18 AWG gatvarized steel wire. Gypsom board attached to furring channels as described in hem 2.

8. Steel Framing Members* — Used to attach furning channels (item 6CA) to study. Clips spaced 48 in IOC, and secured to study with No. 8 x 2.1/2 in, coarse rightall screw through the center hale. Furring channels are friction fitted into class. REGUPOL AMERICA ---- Type SonusChp

6D. Steel Framing Members* — (Optional, Not Shown, As an alternate to Item 6) — Resident channels and Steel Framing Members as described below:

a. Resilient Channels — Formed of No. 25 MSG calvisteet, spaced 24 m. OC, and percendicular to study. Channels secured to study as descripted in hem b. Ends of adjoining channels overlapped 6 in, and secured in place with two No. 8 19 x 1/2 in Phärps Modified Trees strews spaced 2.3/2 in, from the center of the overlap, Gypeuch board attached to resilient channels as described in hem 2.

b. Steel Framing Members* --- Used to attach resilient chappels (tem 6Da) to study Clips spaced 46 to OC , and secured to study with No. 8 x 7-1/2 in coarse drywall strew through the center hole. Resilient channels are serured to clips with one No. 15 x 1/5 m pan-bead self-drilling

REENE BUILDING PRODUCTS CO INC --- hype 804 Assurance Chp.

65. Steel Framing Members? — (Optional, Not Shown) --- Resident channels and Steel Framing Members as described below: a. Resilient Channels -- Formed of No. 25 MSG gale stort, spared 24 in CC, and perpendicular to study. Chancels serviced to study as described in Item bill Gynacim board attached to resilient changes as described in Rem 2.

h Steel Framing Members* Used to attach resilient charvies to walk study. A resilient sound isolation accessory shall be used at each attachment point of the respects channels to the study. Channel ends outled and centered under the studiural members and attached with one accessory at each end. Additional accessories used to hold resilient channels that support the gypsion based and joints. The accessory envelops the mounting edge of the replicat channel. The eccessory and replicat channel are fastened to the study with the science supplied with the accessory and per the accessory markitacturor's installation instructions

PAC INTERNATIONAL LUC - Type RC-3 Boost

6F Steel Framing Members* --- (Optional, Not Shown, As an abernale to hem 6) --- Furging chappels and Meel Franking Members as described below:

A Futring Channels — Formed of No. 25 MSG galvistee: 2-23/32 in, wide by 7/8 in ideep, spaced 24 in, OC perpendicular to study, Channels secured to study as described in item b. Ends of adjoining channels are overlapped 6 in and fied together with double strand of No. 18 SWG galvisteel wate near each end of overlap. As an alternate, ends of adjoining channels may be overlapped () in and secured together with two self-tapping 96 framming strews, min 7/16 in, laring at the millipoint of the overlap, with one strew on each flange of the chabitet. Gypsium

board allached to forming channels as described in Item 2.

5 Steel Framing Members" — Used to attach furning chancels (Item 6Fb) to study. Caps spaced maximum 48 m. OC, Clips secured to study with No. 8 x 2-1/2 in, coarse dryweil screw through the center growmet. Furning channels are inction fitted into dips.

CEARKDIETRICH BUILDING SYSTEMS --- Type ClarkDietrich Sound Clip

7 Wall and Partition Facings and Accessories* ---- (Optional Not showe) --- Nominal 1/2 in thick, 44; vede panels, for optional use as an additional layer on one or hole sides of the assembly. Papels attached in accordance with manufacturer's recommendations. When the - QR-500 or QR-510 panel is installed between the wood framing and the BL Classified gypsum libert, the required UL Classified gypsum board loyer(s) isyare to be installed as indicated as to fastener type and spacing, except that the required fastener length shall be increased by a minimum of 372 m. Not evaluated or intended as a substitute for the required layorist of UL Classified Sypsum Board. PABCO BUILDING PRODUCTS & L C, DBA PABCO GYPSUM --- Type QuiesReek QR-500 and QR-510

8 Mineral and Fiber Board* ---- (Optional, Not Shown) --- For potional use as an additional layer on one or both sides of walli Nom 1/2 in --shick 4 (treade with many dimension people) and centered over study. Attached to framing as described in Item 2. The required UL Classified gypsium board layer(s) is/are to be installed as indicated as to fastener type and spacing, except that the required fastener longth shall be increased by a minimum of 1/2 in. Not evaluated or intended as a substitute for the required layer(s) of VL Classified Gypsum Board. HOMASOFE CO + Homasola Sypc 449-32

9. Non-Bearing Wall Partition Intersection — (Optional) --- Two nominal 2 by 4 in, studied nominal 2 by 6 in studination protection with two --3in long 10d hails spaced a max 16 in. OC, vertically and fastened to one side of the min-mum 3 by 4 in stud with 3 in long 10d hails spaced. a max 16 in IOC, vertically Intersection between partition wood study to be thisb with the 2 by 4 in study. The wall partition wood study are to be framed by with a second 7 by 4 m, wood stud fastened with 3 m long 10d nails spared a max, 16 in OC, vertically, Maxmum one nonbearing wall partition intersection per stud cavity. Non-bearing wall partition stud depth shall be at a minimum equal to the rlepth of the bearing wat.

(Optional, Not Shown) Alternate Construction For Use On One Side Of The Wall.

10 Mineral and Fiber Board* — For use with Items 10A-16D) —Non-3/2 in thick, 4 ft wide with long dimension parallel and centered over studs. Attached to framing with minimum 1-378 th long brig shariked hails or 1+174 in long Type Wisteel screws, spaced 12 to: 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 UE Classified Sypsum 809/d. HOMASOTE CO --- storezsote Type 440-52

194. Glass Fiber Insulation ---- (For use with Stein 10) ----3-178 in Thick glass liber halts bearing the UL Classification Marking as to Surface Burning April to a Resistance, placed to fill the interior of the walk See Batty and Blankety (28NV or 87)7) categories for names of Classified companies.

108. Batts and Blankets* — (As an alternate to hem 108. For use with Item 10), 3 in, thock moreral wool batts, placed to fill interior of walk. attacted to the 3-1/2 in, face of the studs with steples placed 24 in, OC. THERMAFIBER INC --- Type SAFE, SAFE FF

100 Adhesive — (For use with (test 10) ~ Construction grade achesive applied in vertical, serpensive, nominal 3/8 in wide beads down the length of both vertical origes of Minoral and Ethor Board (Bern 14A)

10D. Gypsum Board! — (Zor use with here 10) — 5/8 in thick, 4 fillwade, applied vertically over Moneral and Fiber Board (Item 14A) with vertical joints located anywhere over studicavities. 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 m. OC in intermediate field of the Mineral and Fiber Scard (item 10). Secured to outermost sluds and bearing plates with 2 m long Type S acrews spared 8 in. OC. Gypsum 80ard joints covered with paper tape and joint compound. Screw heads covered with joint compound. Sinish Rating 30 Min. AMERICAN GYPSUM CO --- Type AG-C

CERTAINTEED GYPSUM INC --- Type C

CERTAINTEED GYPSIIM JNC -> 1928 (GSC C/A)

GEORGIA-PACIFIC GYPSUM U & C --- Pypes S. (SAPC. 1G C)

PRINTS ISSUED 11/01/2023 - CITY SUBMITTAL

REVISIONS:

NATIONAL GYPSUM CO + Bypav FSX C, FSW C

PARCO RUILDING PRODUCTS J. J. C. DRA PARCO GYPSUM --- 1998 PS-C

PANEL REY S.A --- Type FRC

THAF GYPSUM PRODUCTS PCL --- Type C

UNITED STATES GYPSUM CO --- Type CTypes C. IP-XZ, IPC-AR

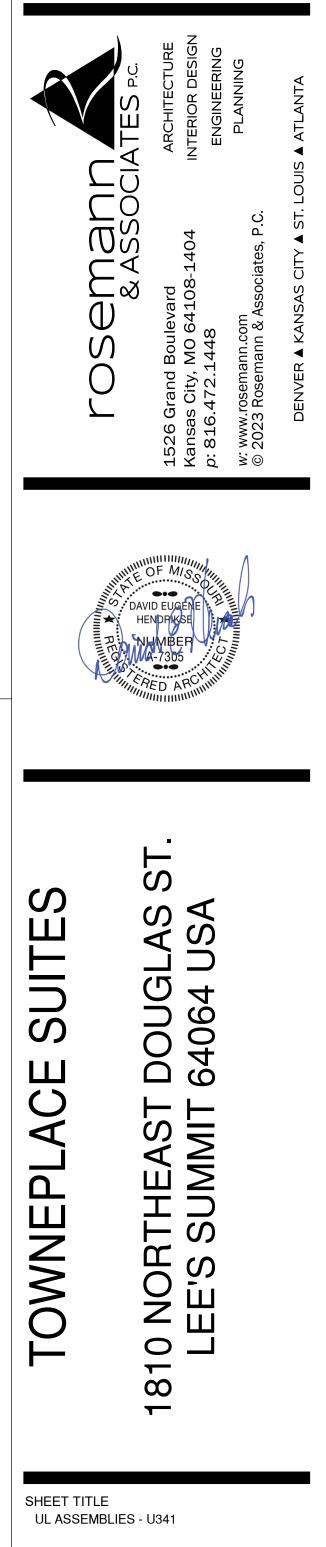
USG BORAL DRYWALL SFZ LLC --- Type C

USG MEXICO S A DE C V -- Bypes C (29.23) (PC 48

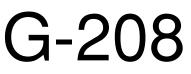
* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively. Last Updated on 2023-08-04

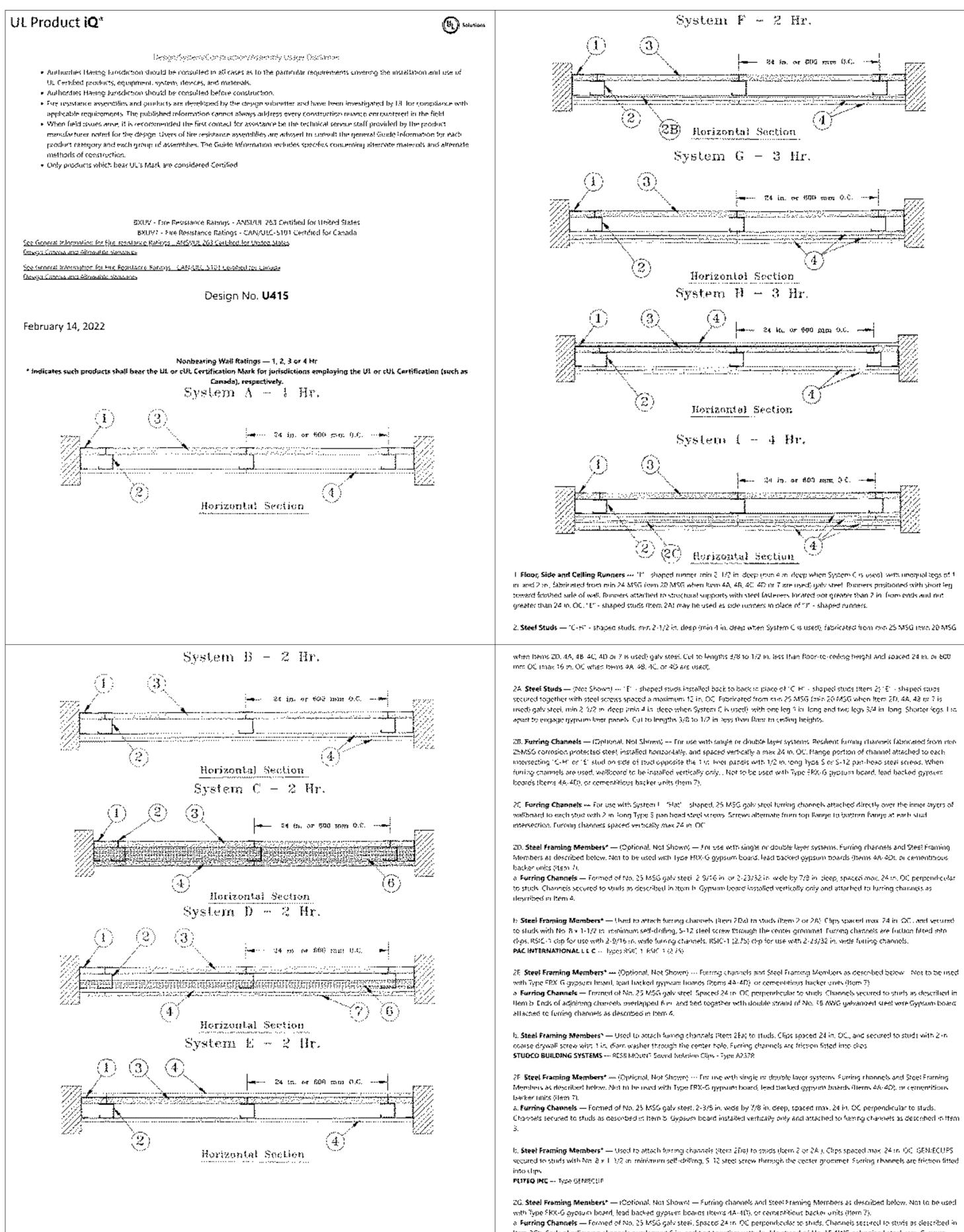
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PROJECT NUMBER: 23098





Item 2Ge. Ends of adjoining channels aveilapped 6 in and bed together with double strand of No. 15 AWG galvanized steel wire. Sypsium

board attached to furring channels as rescribed in Rem 4.

b. Steel Framing Members* --- Used to attach forming channels (item 2Ga) to study. Cips spangel 24 in CC, and veruted to study with No. 8 v

2-1/2 in: coarse dywall screw through the center hole. Furring chaonels are friction finted into clips REGUPOL AMERICA - Eype SprundSp-

214 Steel Framing Members* --- (Optional, Not Shown) --- Resident channels and Steel Framing Members as described below. Not to be used with Type FRX G gyosum board, load backed gypsium boards (items 44-40), or computitions backer units (item 7). a Resilient Channels -- Formert of No. 25 MSG galvisteel, spaced 24 in OC, and perpendicular to study. Channels secured to study as -

described in Item 5. Ends of admining Grannels overlapped 5 in, and secured in place with two Nu. 8-15 x 1/2 m Philips Modified Trass screws spaced 2-1/2 m. from the center of the overlap. Gypsum board attached to resident channels as described in item 4.

b. Steel Framing Wembersh — Used to attach resilient channels (item 2Ha) to study. Clips spaced 48 in IOC , and secured to study with No. 8 x 2-1/2 in, course drywart screw through the center hole. Resilient channels are secured to clips with one No. 10 x 1/2 is, pan-tead self-drilling.

KEENE BUILDING PRODUCTS CO INC --- Type BC + Assocance Clou

21 Steel Framing Members* --- (Optional, Not Shown) --- For use with single or double layer systems. Forring channels and Steel Framing Members as described below. Not In be used with Type FRX-G gypsum board lead backed gypsum boards (items 4A-4D), or cementatious backer units (item 10.

a. Furring Channels — Formed of No. 25 MSG galvisteel, 2-23/32 in, wide by 7/8 in deep, spaced max, 24 in, OC perpendicular to study Channels secured to study as described in Item b. Gypsion board installed vertically only and attached to jurning channels as described in Item

Is Steel Framing Members* --- Used to attach furning characles (item Bia) to study (item 2 or 2A). Claps spaced max, 24 in OC, and secured to stury with No. 8 x 1-5/3 to instrume split-trilling. S-12 steel screw through the center grammet. Forming channels are function littled into those CLARKOLETRICH BULLOING SYSTEMS --- Type ClarkGielach Sound Clip

3. Gypsum: Board* — Gypsum kner panels, nom 1 in. Ibick, 24 in. or 500 mm (for matric spacing) wide. Panels out 1 in. less to length than floor to collegible Vertical edges inserted in "H" portion of "C-H" stude or the gap between the two 374 in legs of the "E" study. Free edge of end panels attached to long legion vertical "J" - runners with 7-578 in, long Type Sisted iscrews spaced not greater than 12 in. OC. When wali height exceeds liner panel length. liner canel may be butted to extend to the IVII beight of the walk. Horizental joints need not be backed by steer framming to System I, butt jointy in timer panels are staggered min 36 or Butt jointy backed with 6 on by 22 in strips of 3/4 in thick gypsium wallthand (item 4). Wallthand stops contered over built joints and secured to know panels with six 1-172 in long Type G steel screws. three screws along the 22 in, dimension at the top and bottom of the stops. CGC (NC --- Sypt SLX

UNITED STATES GYPSUM CO --- IVCO SUX

USG BORAL DRYWALL SFZ LLC ---- Type SLX

USG MEXICO S A DE C V --- Type SI X

4. Gypsum Soard* —

System A — 1 Br Gypsium panels, with beveled, square or secored edges, non, 578 in (blick, 48 in) or 7200 mm, wide, applied vertically or horizontally, attacted to study with 1 is. Jong Type 5 steel screws spaced 12 in when installed vertraity or 8 zr OC when installed borizontally. Horizontal jointy area sos be backarl by steel 👘

CGC INC -- Types AR, C, IP AR IP X3, IP X2, IPC AR, SCX, SHX, UTIX, IDX, USGX, WRC, WRX,

THE SIAM GYPSUM INDUSTRY (SUNGKHUA) CO --- Types C and SCX.

UNITED STATES SYPSUM CO --- Types ARI CLERXIG IPLAR, PLX1, IPLAR, SCX, SGX, SHX, UUX, ULX, WRC, WRR, USGX,

CGC INC — 1/2 is, Type C, IP / Z, IPC / AR of WRC, 5/8 is, Types AR, C, IP- AR, IP- XL, IPC / AR, SCX, SLX, USCX, WRC, WRX

USG BORAL DRYWALL SFZ LLC --- Types C. SCX, SGX, USGX

USG MEXICO S A DE C V --- Types AR, C, IP-AR, IP-X3, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX -

System B — 2 Hz

Wexturn panels, with they elect square or vacered orders, nom 1/2 in let \$20 in Thick, 48 in let 1200 mm, wate, applied vectorally or bottechtally in two layers -Inner or base layer attacted to study with 3 us, long Type 5 speel sarews spaced 24 in IOC waren installed writinally or 10 in IOC when installed horizontally. Alter or face layer attached to study with 3-5/8 in long Type 5 steel screws spaced 12 in IOC when installed vertically and staggered 13 in Irom base la screws or 6 m. OC when installed horizontally and staggered 6 m. Fork base layer sciews. Horizontal joints between inner and outer layers straggered a minof 12 in Penzonasi joints root not be backed by steel framing. Vertical joint's centered over studs and staggored 24 in

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO --- Types C sixt SCX

UNITED STATES GYPSUM CO --- 1/2 in Types C, IP X2, IPC-AR, br WRC, 5/8 in Types AR, C, TRX G, IP AR, IP X3, IP-X2, IPC AR, SCX, SGX, SHX, UUX, IRX, USGX WRC, WRX

USG BORAL DRYWALL SFZ LLC --- 1/2 in Type C, 5/8 in Types C, SOL SGX USGX

USG MEXICO S A DE C V -> 1/2 (c. 7)pos C (P X2, PC AB or W8C 5/8 /r 7)prs AB, C, P AR (P X3, (P X2, PC AR, SCX, SHX, U1X, SISSX, W8C, W8X)

System C — 2 Hr

Syptum papels, with beveloid square or tagered edges, non-374 in itersk, 48 m or 1200 ram wite, applied vertically or horizontally, sourced with 1-374 in long Type 5 steel strews spaced 5 vs. OC along vertical edges and 12 in ICC in the field value installed vertically or 6 in ICC along the vertical edges and m the field when installed bunzontally, blondontal joints need not be backed by steel hammy. Screws along oute joints offset 4 on, Required min, 4 m, deeb Framing per Items 3, 2 and 5. Requires min 3 in thick minetar week berts per tem 6

UNITED STAFES GYPSUM CO --- Types (F-X3 or USTRACODE)

USG BORAL DRYWALL SEZ LLC - Bype 06584C001

CGC INC --- Types IP-X3 ar BCTRACCOD

USG MEXICO S A DE C V -- Types IP X3 of 00,TR4C00F

System D — 2 Br

Gypsium panels, with bovelest square or taperad edges from 5/8 in Itbirk, 48 in Int 1200 rem wide, applied vestically or horizontally attached directly to sturk with 1 in long Type 5 sterl screws spaced 24 is, when instaked vertically or 36 is. OC when installed hospentally. Korizontal joists event on be - backed by steel framming Requires face layer of 572 or 578 in thick computitious backet units per Rom 7 and min 1+172 in, thick mineral wood batts ger Rom

CGC INC --- Types AR, C, REAR, IPEX3, /FEX2, /PC/AR, SCX, SHX, USX, USXX, WRC, WRX,

THE SIAM GYPSUM INDUSTRY (SONGKHEA) CO + Byges Cland SCX

UNIVED STATES GYPSUM CO --- TUDES AR IC FRX G IP AS IP X1 IP X2, IPC AR ISCX, SGX, SHX, UPX IDX, USX, USEX, WRC, WRX

USG BORAL DAYWALL SFZ LLC --- Types C. SCX, SSX, USGX

USG MEXICO S A DE C V --- Types AB, C, IP-AR, IP-XB, IP-AR, SCX, SHX, ULX, USGX, WSC, WSC,

System E --- 2 Hr

Gypsum panels, with beveled, square or rapered edges, nom 1/2 in or 5/8 in thick, 48 in, or 1200 mm wide, applied vertically or horizontally, attached to sturk with 3 in long type 5 steel screws spaced 12 in OC when installed verticaRy or 8 in when installed borisontally. Horizontal joints need not be backed by stort framing

THE SIAM GYPSUM INDUSTRY (SONGKHUA) CO --- Proces Cland SCX

WRC WRX.

USG BORAL DRYWALL SFZ LLC -> 1/2 to "Syne 5: 5/8 in Types 5: 50X, 95X, USGX

456 MEXICO 5 A DEC V --- 1/2 (n. Pydes C. 1948), 190-48: 5/8 (n. Pyder AR, C. 19 AR, 1948), 190-AR, 50X, 54X, ULX, 1950X, WRU WRX -

System F — 2 Kr

Oyosian panels, with beveled, square or teacred edges, nom 1/2 in or 5/8 in Ittick, 48 m, or 1200 mm wide, applied vestically in two layers. Inner or hase layor attached to resilient furing chapters (item 28) with 5 in tents Type S steel screeks spaced 24 in Outer or face layer attached to resilient furing 👘 charmels (Rem 28) with 5-5/8 in long Type 5 steel screws spaced 12 is. OC and staggered 32 in Trom base Syler screws. Jointy herwitten inner and outer layers staggered 24 m.

CGC FNC --- 1/2 in: Type C, IP X2, IPC AR or WRC, 5/8 in Types AR, C, FRX-G, IP AP, IP-X1, IP X2, IPC AR, SCX, SPX, USX, USGX, WRC, WRX --

THE SIAM GYPSUM INDUSTRY (SONGRHEA) CO --- Types C and SCX -

WNITED STATES GYPSUM CO --- 1/2 in Type C. PLAZ, PC-AR of WRC: 5/8 in, types AR, C. FRX-O, IF-AR, IPAX, IPAZ, IPC-AR, SCX, SHX, DAX, URA, URA, URA, USGX, W8C, WEX

USG BORAL DAYWALL SEZ LLC --- 1/2 to Type C 5/8 in Types C SCX

USG MEXICO S A DE C Y --- 1/2 (5, Fypes C, PF-X2, PC-AR (5/WRC; 5/8 (6, Types AR, C, PF-AR, PF-X2, PC-AR, SEX, ULX, USSX, WSC, WRX)

System 6 — 3 Hr.

Syssivm panels, with beveled, signare or tableted edges, nom 5/8 in thick, 48 in, or 1200 mm wide, applied vestically or horizontally in three layers, inner or hase layer attacted to study with 3 to, long Type S steel screws sport? 24 in 100 when installed vertically or 16 in 00, when installed periodatally Middle layer attached to study with 1-576 in long Type S steel errews spaced 24 is, when installed vertically or 36 in IOC when instaled horizontally. Outer or face layer attached to study with 2-174 in Jong Type S steel snews spaced 10 in when installed vertically or 32 in IOC when installed horizontally. Screws offset 6 in from layer below increational joints on adjacent layers staggered a rinn of 12 in . Roscontal joints need not be backed by steel fraining. Verbial joints rentered over study and staggored 24 in lob adjacent layers.

CGC INC --- Types C. 92-X2, IPC-AR, OUX, WRC

THE SIAM GYPSUM INDUSTRY (SONGKHEA) CO --- Type C

UNITED STATES GYPSUM CO --- Types C, IP X2, IPC AR, IDDX, WRC.

USG BORAL DRYWALL SEZ LLC --- Type C

USG MEXICO S A DE C V --- Types C (P X2, (PC A8, WRC))

System H — 3 Hr

Gypsum panels, with beyoled, square or tegered edges, nom 5/8 in (block 48 in) or 12(0) rom wide, applied versionally or horizontally, two layers over the fange of the 101 section of the study, one layer over the Bange of the "P" section of the study inner or basic layer estacled to study with 1 in long Type 5. steel screws spaced 24 m. CC when installed vertically on 15 m. CC when installed horizontally. Face isyer attached to study with 3-5/8 in long Type 5 steel scream spaced to in-when installed vertically or 12 in: OC when installed horizontally, Scream offset 6 in-liter layer below. Horizontal joints on anjacent Byers staggored a min of 12 to Hordontal joints need not be backed by steel framing. Versical joints contored over study and staggered 24 in, on edjacont -

CSC INC --- Pypes C. 97-X2, PC-AR, UUX, WRC

THE SIAM GYPSUM INDUSTRY (SONGKHEA) CO --- Type C

UNITED STATES GYPSUM CO ---- Types C, IP-X2, IPC-AR, DKD, WRC.

USG BORAL DAYWALL SFZ LLC - Sync C

USG MEXICO S A DE C V --- Types C, 09-X2, 09C-48, WRC -

System I --- 4 Hr

Syssum panels, with bevelved, square or reported organ, 3/4 in thick, 4 ft wide for 1200 mm for metric specing, werdshell with soviety or topered. edges. Total of four layers to be used. First and second (most) byers applied vertically or borizontally over the steel study. Horizontal joints need not he backed by steel Fanyag. When applied unitically joints contained over study and staggered rain 24 in, otherwise all joints staggered aver 12 us. Seet layer serviced to study with V-1/4 in, long Type S self-million, self-tamping bunde-treed steel screws opered 24 in. OC. Second layer second to study with 2-1/4 in long Type Sisest-drilling, self-sapping buyle-head steel sciews spaced 12 m. 🛠 Thind Giver audied vertically over the forming channels (tem 20) with a 👘 1.1/4 in loop, live Siself-dolling, activation burgle-back store spaced 12 in CC Fourth (aver applied vertically or horizontally with 2-0/4 in long -Type Siself delengi self tapping huge local steel screws spaced 12 in IOC, When applied entitically joints to be staggored min 24 in from third layer, 👘 otherwar all inirth staggered min 12 in

CGC INC --- Apres IP X3 of BURACODE --

UNITED STATES GYPSUM CO --- Types IF-88 or ULTRACODE

USG BORAL DRYWALL SFZ LLC --- Type OUTRACODE

USG MEXICO S A DE C V --- Types IP-X3 or OLTRACODU

46. Gypsum Board* — (Avian alternato to Aevo 4 Systems A, B, C, D, E, G, H, and Lwben used as the base layer. For direct attachment cody) ----Nom 5/8 in or 3/4 in. Unick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over 20 MSG steel studs and staggered min 1 stud cavity on opposite sides of studs. See Items 1, 2, 2A, 2B and 2D. Wallboard secured to studs with 1-1/4 in Jong Type 5-12 steal screws spaced 8 in. DC at perimeter and 12 in DC in the field. For Joint Compound sea Item 5, To be used with bead Batten Strips (see Item 9) or Lead Disks or Tabs (see Item 19) -RAY-BAR ENGINEERING CORP --- Type RB-0.0G

4D. Gypsum Board* — (As an alternate to them 4 Systems A. B, C, D, T, G, H, and) when used as the base layer, For ideact attachment only) -----Nominal 5/8 in: thick lead backed gypsum papels with beveled, square or tapeted edges, applied vertically. Vertical joints centered over study and staggered mon 1 stud cavity on opposite sides of study. Wallhoard secured to study with 1-174 in, long Type S-12 (or F5 by 1-174 in, long bugis head fine driller) steel screws spaced 8 in. OC at geometer and 12 in. OC in the field. NEW ENGLAND LEAD SURNING CORINC, OBAINELCO + Type Moleco

40 Gypsum Board* --- (As an alternate to them 4 Systems A, B, C, D, E, G, H, and I when used as the base layer. For direct attachment only) ---Nom 5/8 or 3/4 in theck lead backeri gypweri panels with beveleri, square or tapezed isdges, applied vertically. Vertical joints i entered over 28 👘 MSG steel study and staggered men 1 stud cavety on opposite sides of study. See Items 1, 2, 2A, 22 and 20. Wallmard secured to study only 1-1/4 to, long Fype S-12 steel screws spaced 8 in IOC at permeter and 12 in, IOC in the field. For Joint Compound see Item 5, To be used with Lead Batten Strips (see item 9A) or Lead Discs (see Item 10A). Lead batten strips required behind vertical joints of lead backed gypsum 👘 waliboard and optional at remaining studilocations. Lead batter, strips, min 2 m, wide, max 10 h long with a max the kness of 0.140 m, placed on the face of study and attached to the stud with two him long Type S+8 pan head steel screws, one at the top of the strip and one at the bottom of the strip

MAYCO INDUSTRIES INC --- Type X Ray Shelded Gypsum

4D. Gypsum Board* — (As an abemate to here 4 Systems A. B, C, D, E, G. H, and 5 when used as the base layer, For direct attachment only; ----Nom 578 in: thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over stycls and staggored min 3 stud cavity on opposito sides of studs. Wallboard secured to studs with 1-1/4 in, long Type S-12 steel screws gyosum panel stoel screws spaced 815, DC at porimeter and 12 in. OC in the field. Lead batter strips required behind vertical joints of read backed gypsum well-board and optional at remaining stud locations. Lead botten strips, man 2 in wide, mar 8 H long with a max (bickness of 0.14 in, placed on the face of study and attached to the stud with construction adhesive and two 1 in long Type 5-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, remark 3/8 in idiam by max 5.085 in thick. Compression fitted or adhered over the sureix heads. Find halten stops and discs to have a purity of 99.9% meeting the Federal specification QQ-1-2015 Grade 101 \pm RADIATION PROTECTION PRODUCTS INC --- Type REP - Lead Uned Orywals

S. Joint Tape and Compound — (Not Shown)

Systems A, B, C, E, F, G, H, F loads on easty layers of gypsian boards ofern 4 and 4A) covered with gaper tape and joint compound. Paper tape and joint compound may be midtled when avosom boards are supplied with sought edges. Exposed surey heads covered with post compound





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SHEET TITLE

UL ASSEMBLIES - U415

PROJECT NUMBER: 23098

SHEET NUMBER:

PRINTS ISSUED 11/01/2023 - CITY SUBMITTAL

REVISIONS:

6. Batts and Blankets' —

Systems A, B, E, F, G, H, I

eOptional) — Mineral wool or glass liber harts partially or completely filling start cavity. Any monoph or glass fiber hart mineral bearing the Ut – Classification Marking as to Fee Resistance.

Systems C & D More3 in (System C) and mine 1-5/2 in (System D) thick mineral word hasts, friction filled between the study and four and correspondence. ROCKWODL --- fype ASR, min. density 1.9 acf / 28.8 kg/m³

THERMAFIBER INC ---- Type SAFK SAFE FF

7. Cementitious Backer Units7 — (System O) — Nom 1/2 or 5/8 in thick panels, square edge, attached to study over gypsum wailboard with 1 5/8 in, long, Type 5-12, corresion resistent steel screws speced 8 in, OC and staggered 8 in, from gypsilm waik boxing screws, Joints covered with glass liber mesh tape. Vertical joints staggered one stud cavity irom gybeum welloeard joints. Horizontal joints staggered a min of 12 m. from the gypsum wallboard joints. UNITED STATES GYPSUM CO --- Type OC6

8. Leminating Adhesive* — (Optional, Not Shows) --- Used to bond outer layer of Cententhious Backer Up/Is (Item 7) to inner layers of Gypsism Board (Item 4) in System D, ANSI A1351 Type 1 organic adhesive applied with 1/4 (n. square notiched trowel, See Adhesives (SYW9) in the Fire Resistance Directory or Adhesives (BJL2) in the Building Materials Orrectory for names of Classified companies.

9. Lead Batten Strips — (Not Shown, For Use With Nem 4A) --- Lead batten strips, min 1-5/2 in wide, may 10 h long with a max thickness of 0.025 in Strips placed on the interior face of study and attached irom the exterior face of the stud with two 1 in long Type S 12 can head steel screws, one at the lop of the strip and one at the bottom of the strip, lead battee strips to have a purity of 99.5% meeting the Federal specification QQ-0-2041, Grade 1C1 Lead battern strips required behand vertical joints of ligation-backed hypsum wallboard (step 44) and optional al remarking stud locations. Required behind vertical joints.

9A Lead Batten Strips — (Not Shown for use with item 4C) -- Lead batten strips, 2 m, wide, max 10 if long with a max thickness of 0.140 m. strip and one at the bottom of the strip or with one min, 1 in, long min, Type S-4 pan head steel screw at the top of the stop, sead batter – strips to have a purity of 99.5% meeting the Federal specification QOA-2011 Grades 18. Clor O1, sead batteri strips required behind vertical joints of learl backerl gypson, wallocard (item $\delta)$ and optional at remaining stud ionations.

10 Lead Discs or Tabs — (Not Shown For Ove With Item 4A) --- Used in light of or in addition to the lead batten stops (Item 9) or optional at other locations - Max 3/4 in chain 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 to, by max 0.525 to, totak lead tabs placed on gyssum boards (Rem 4A) underneath sciew locations prior to the installation of the screws. Lead discs or false to have a punty of 29,9% meeting the Federal specification QO-U-201[, Grade 101].

10A Lead Discs — (Not Shown, for use with Item 4C) ---- Max S/16 in tham by max 0.140 in thick lead discs compression fitted or adhered -over steel strew heads. Lead discs to have a purity of 99.5% meeting the Federal Specification DQ-U-2011, Grades 18, C or D".

11 Lead Batten Strips — (Not Shown, Sor Use With Bern 48) -- Lead batten strips 2 m, wide, max 10 th long with a max thekness of 0.142 m --Strips placed on the face of study and attached to the stud with two man. Lim long min. Type Sr& pan head stool streves, one at the tap of time strip and one all the boltom of the strip or with one min-1 in tong min-Type S-8 par head steel screw at the top of the strip. Sead battering strips to have a punty of 99.9% meeting the Federal specification QQ-5-203(, Grade "C", Cead batteri strips required behind vertical joints of lead backed gypsum wailboard (item 4B) and optional at remaining stud locations -

12. Lead Tabs — (Not Shown, For Use With Hern 46) --- 2 in, wide, 5 in, long with a max thickness of 0.142 (a) Yabs friction-fit around front face of stud, the stud folded back flange, and the back face of the stud. Table required at each location where a screw (that socures the gypsim boards, hern 48) will penetrate the steel stud. Lead tabs to have a purity of 99.9% meeting the Faderal specification GQ-1, 2015, Grarke -"C" Lead tabs may be held in place with standard arResive tape if nocessary -

* 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 2022-02-14

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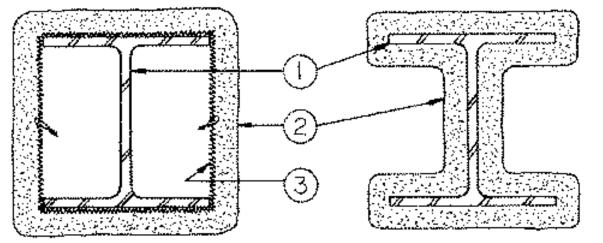
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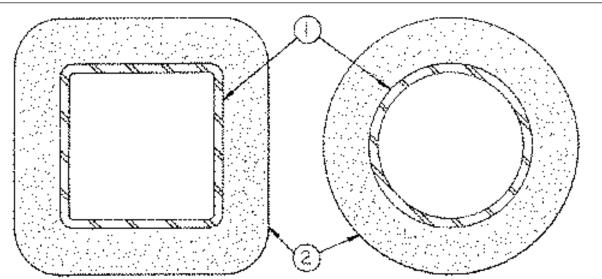
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8XUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada See General tolorination for Fire-resistance Baticitys - ANS//2i, 263 Certilied for United States Design Uniteria and Attowable Variances

See General Information for Fire Resistance Estings - CAUGUE-STOT Certified for Canada Dissign Criteria and fillowable Variances

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tube (SF), minispes as shown in the tables below.

2. Spray-Applied Fire Resistive Materials? — Applied by mixing with water and apraying in one or more coats to the thicknesses shown below, to steel surfaces which are clean and free of dirt, loose scale, and oil. Min average and min individual density of 1S and 14 (xt) for Types 300-3004C, 3004S, 3004S, 3000, 3000ES and SB. For Types 4004C and 400ES min average and min-individual density of 22 and 19 pct respectively. Min avaidensity of 44 (x), with min indivalue of 40 pct for Types Milliand TS. Min avaidensity of 47 pxt, with min individual values of 43 pxf for Type M 8/P. For method of density determination see Design Information Section. Sprayed Material

colorous are shown to the sable below:

Column		Min Takas In.										
Size	W/D	1 Hr	1-1/2 Hr	2 Hr	3 Hr	4 H						
W6k9	0.33	15/16	1.174	1-9/16	2 1/8	2-13/16						
Wbx32	0.43	13/16	1 1/6	1.7716	2	2-9/16						
W66.16	0.57	13/16	1	1 S/16	1 7/8	2.500						
W5k2S	0.68	5/5	15/16	3-1/4	1 (3/15	2.5/36						
William	6.63	9/16	ايز!	1.178	1.5/8	84148						
W125106	1.46	515	0/16	73/96	1.574	1-13/16						
W344233	2.52	1/4	3/8	1/2	7/8	1-5/16						
Walets()	<u>ة</u> 0.06	1/4	1/2	1/4	3/8	1.75						

As an attempte to the above table, the resourced thickness of Spray Arched Fire Resistive Materials to be acceled to all surfaces of the steel - columns for all rating periods may be determined from the following equations:

(for column W/O range of 0.33 to 2.53)

(U) Solutions

Design/System/Construction/Adsenatly Usage Osciander

Authorities Having fundation should be consulted in 80 cases as to the particular requirements covering the installation and use of

• Fire injustance asymptifies and productly are developed by the device scionetter and have been investigated by DL for compliance with applicable requirements. The published reformation cannot always address every construction mance encruptered 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 named for the design. Givers of fire resistance assemblies are advated in unresult the general Good information for each product rategory and each group of assembles. The Guide Information includes specifics concerning alternate maternals and alternate

Design No. X790

November 25, 2019

Ratings ---- 1, 1-1/2, 2, 3 and 4 Hr.

1 Steel Column, Steel Pipe or Steel Tabe — Wirle Bange steel column (W) or steel circular pipe (SP) or steel square or rectangular

The minimum starkness of Spray-Applied Fire Rosistive Materials required for various fire resistance ratings of conjour sprayed or boxod wide flange

h 🖘

75 (W/D) + 32

lı ≂

75 (W/D) + 15

dor columa W/O mage of 2.53 to 6.68).

Where,

 $-h \neq$ Spray-Appized Fire Resistive Materials thiskness in the range of 1/4 to 4-1/2 in trounded up to the reverset 1/16 in (

B = Feb sessitance rating cened in availars (66-240 mins).

10 - Heated parameter of the steel column to writes.

Win Weight of the steel column in its perifoot.

The Dicknesses conseared in the table below are applicable when the Spray Applied Fire Resistive Materials applied to the column's flange sign are reduced to one-hall that shown in the table below (for controls application).

Column		tain Thins in.								
Size In.	1 Hr	1-1/2 Hr	2 Hr	3 Hr	4 Hv					
W6K 9		5 3/d	1-)/4	2.7716	3 1/8					
W6x32	1/8	5 (ya	1 5/8	2 5/16	3-1/16					
What 6	374	5.178	1 7/16	2 3/16	2-0706					
W8225	\$5796	1	1 5/16	3 (5/16	2.172					
WY0x48	5/8	15/35	1-3/16	1-3/4	2:3/8					
W12+106	5.6	5/6	7/8	! .l/ñ	1 (37)6					
WMR233	\$716	376	0/76	15/16	1 5/16					
W544730	5/16	5/36	5/06	//15	5/2					

The cost thickness of Spray Applied Fire Resistive Materials required for various fire resistance rations of contrart swayed steel pipes or rates are whown on the table belows

1010	1.00	nance	THEFT.W.

Min Column Size In.	A/P	1 Hr	1-1/2 Hr	Min Thkns In. Z He	3 Hr	4 Hr
s¤ 4v0.237	0.22	11/16	7	1 3/8	2 1/16	2 3/4
53 4x4x0 1875	្រារ	3/4	1.7.16	1 7/16	2 1/16	2.)3716
St axax0.5125	0.29	1/2	13/16	1 7/8	372/4	2 5/36
\$3 4x4x0.375	0.34	7/15	3/4	1	1-9/16	2-3/8
5) 4x4x() y	دە ن	378	9716	7.0	1.378	1-778
5720x20x0.75 m	0.72	5/16	1/2	11/16	1-1/16	1-7/16
\$130x20+1 m	0.95	1/4	3/8	1/2	13/16	1.3/8
\$720x20x13-av	: 59	1/4	!/A	370	5/6	15/56
5720x20+175-m	i.eu	374	1/4	3/8	1/2	3.4
\$132 + 32+125 m	: 29	!/4	5716	7716	11/16	15/06
5) 50224405	્ર ગય	5/76	7756	11/36	3-378	1 9/16

As an attendate to the table above, the required thickness of Spray-Applied File Resistive Materials to be applied to all surfaces of the steer pools or tubes for all variety periods may be determined how the following equation.



168 (A/P) – 45

Where:

In A Spray-Approof Fire Resistive Materials thickness in the range of 5/16 to 4-1/4 in (rounded up to the rearest 3/16 in.)

R is Fire resistance rating or robutes (63-249 mins.).

A 4 Cross-sectional area of gipe of table.

P – Reased positional of stept pipe or suber

A/F v 018 to 0.49.

The A/P ratio of a circular pape is determined by:

t (d --- 1)

A/P +

Wisere.

d – the order diamater of the pipe (in t

t is the wall thickness of the pipe (in.)

The A/P ratio of a rectangular table is detectioned by

s (a. • 12---21)

A/P =a + b

Wirere.

a – she outer width of she tube (in).

b – the outer length of the tube (m);

t is the well thickness of the tabe (in).

BERLIN CO LTD --- Types 350, 300ES, 200N, SB, M-0, TG and M-0/P

GREENTECH ASIA PACIFIC SDN 8DH -- Types 300, 300FS, 300HS, M 8, 5r M 80P

GREENTECH THERMAL INSULATION PRODUCTS MEG COLL C --- Types 200-300AC, 30042, 40040, 3001 M /9, 705, and M /9, P

ISOLATER INTERNATIONAL --- Type 300, 300AC, 300AS, 300AS, 300AS, 500M 400AC, 400AS, 58, 3000, 300DES, M-0, 4G and M-0/P

NEWKEM PRODUCTS CORP --- Sypes 200, 300EX, 300N, 58, M-R, 7G and M-R/F.

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REVISIONS:

24 (As an alternate to Rem Z) Spray-Applied Fire Resistive Materials? — Applied by mixing with water and spraying is one or more coats to the thicknesses shown below, to steel surfaces which are clean and free of olint, looso scale, and oil. Min average and min individual density of 17.5 and 16 act, respectively, for Type 3007W. Min average and min individual density of 22 and 19 pci. respectively, for Type 400. For method of density determination, see Design Information Section, Spraved Material The merchickness of Spray-Appiert Fire Resistive Materials required for various fire resistance calories is shown in them 2. BERLIN CO LTD --- Type 400

GREENTECH ASIA PACIFIC SON BOH -- Type 400

GREENTECH THERMAL INSULATION PRODUCTS MEG COLUCT --- 1959 400.

PSOLATEX INTERNATIONAL --- Type 300TW or Type 400.

NEWKEM PRODUCTS CORP --- Type 403.

26 (As an alternate to Item 2 and 2A) --- Spray-Applied Fire Resistive Materials* -- Propaged by mixing with water according to instructions on each bag of maxture and spage or travel applied to steel surfaces which are feet of dist, of or scale. Min average density of 17.5 pcf with moundwidual value of \$7.6 pcf. For mothod of density determination see Design Information Section. Spraved Material. The root talekness of Spray Appvert Fire Resistive Materials required for various fire resistance rations is shown to them 2.

ISOLATEK INTERNATIONAL -- 7yoe 285.

3 Motal Lath -- (Optional for contour application) -- 34 lb/sq yd gale or painterl expanded steel (ath 1 ath shall be lapped 1 in and 1 tierl logether with No. 18 SWG galvisites) were spaced vertically 5 in: OC.

* Indicates such products shall bear the UE or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively. last Opplated on 2019-11-75

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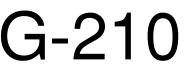


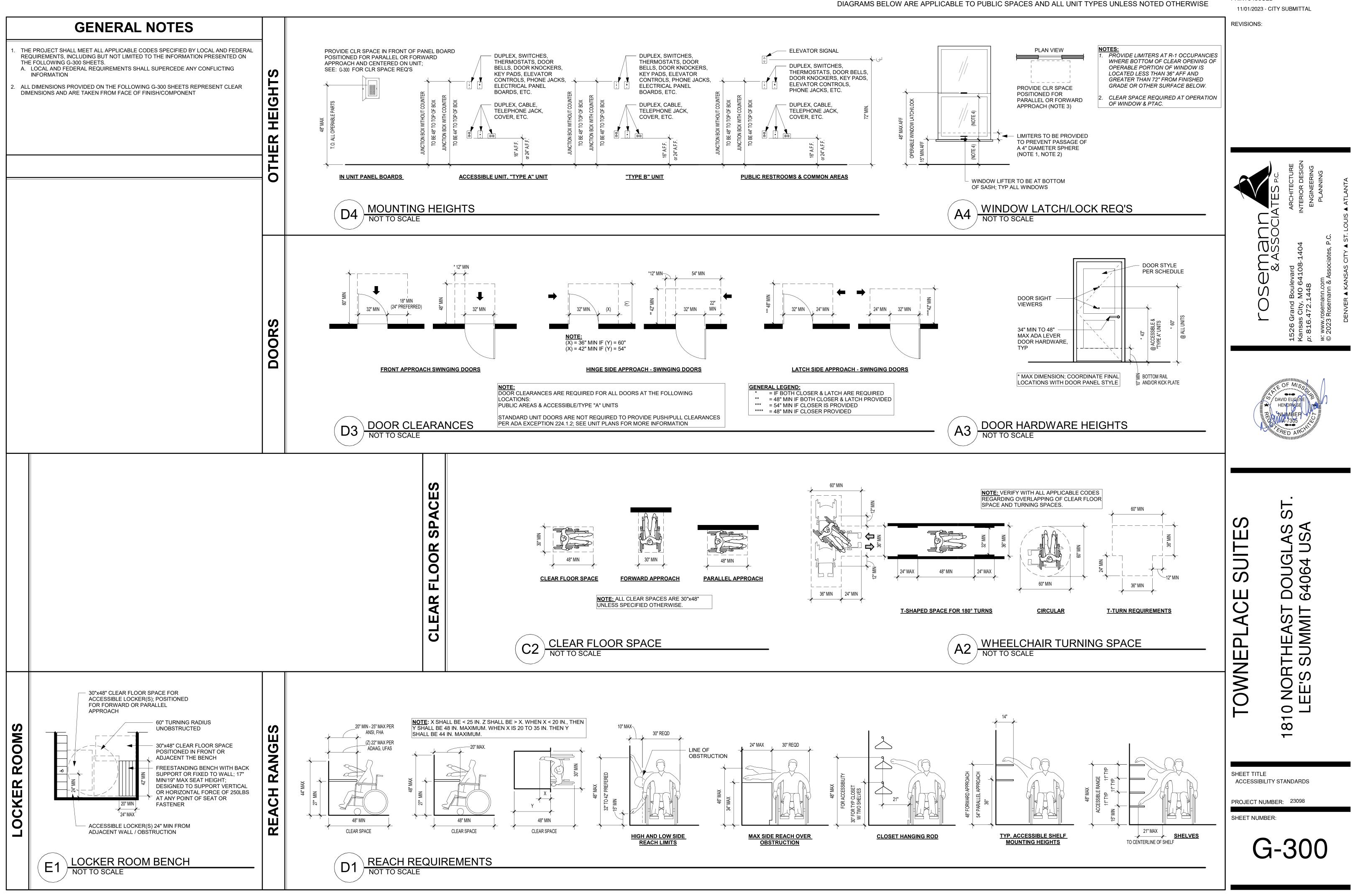


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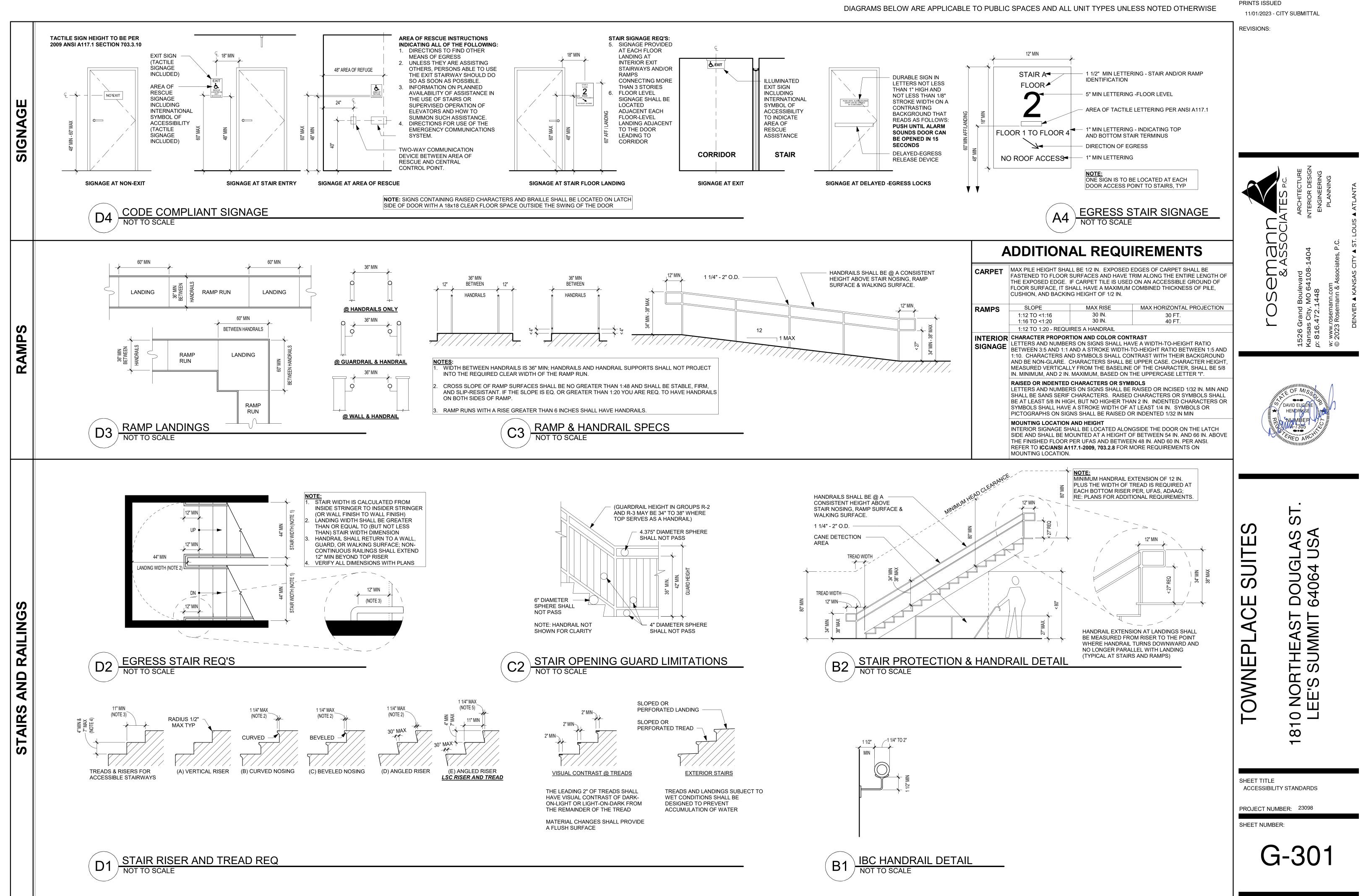
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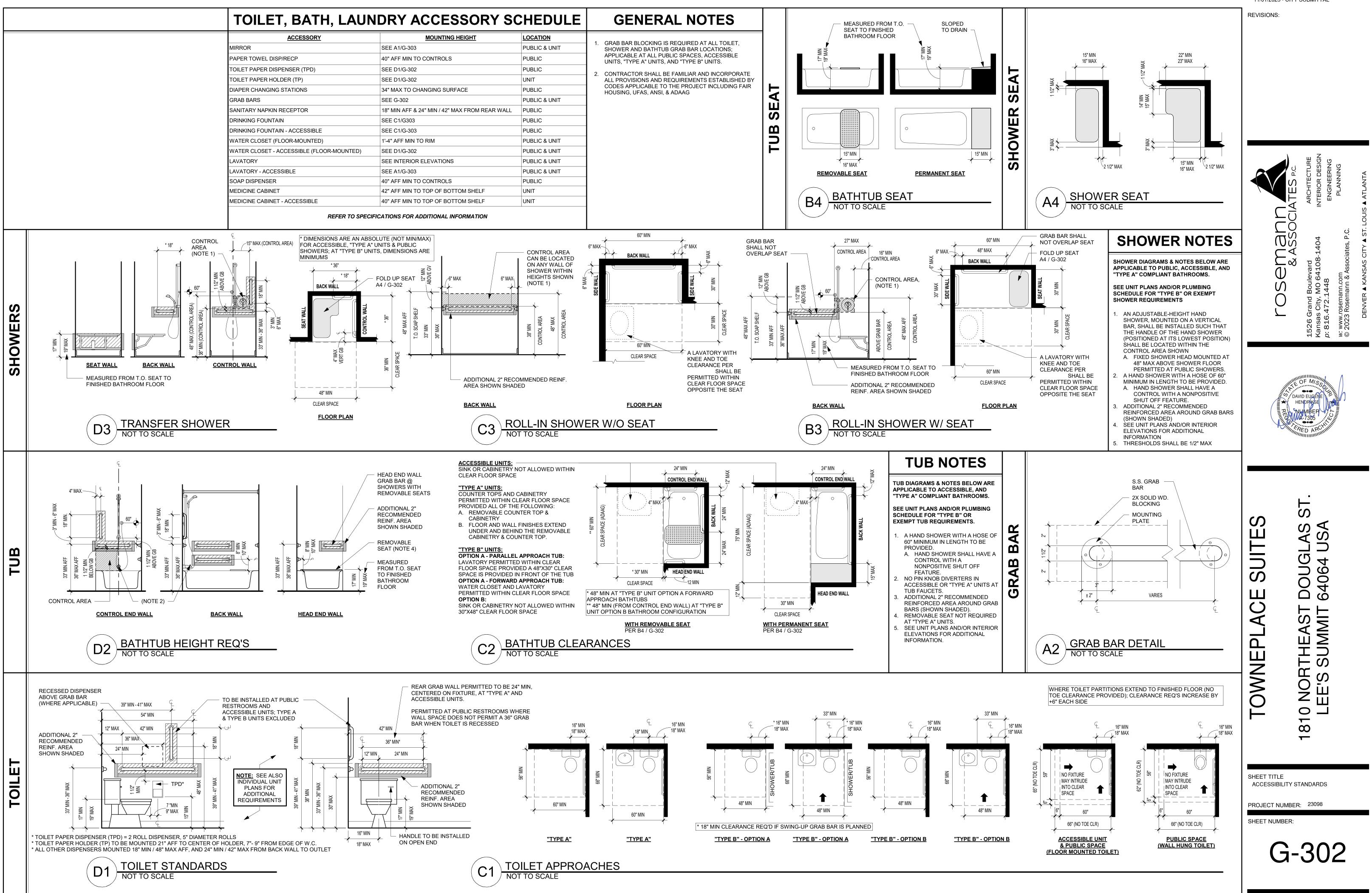


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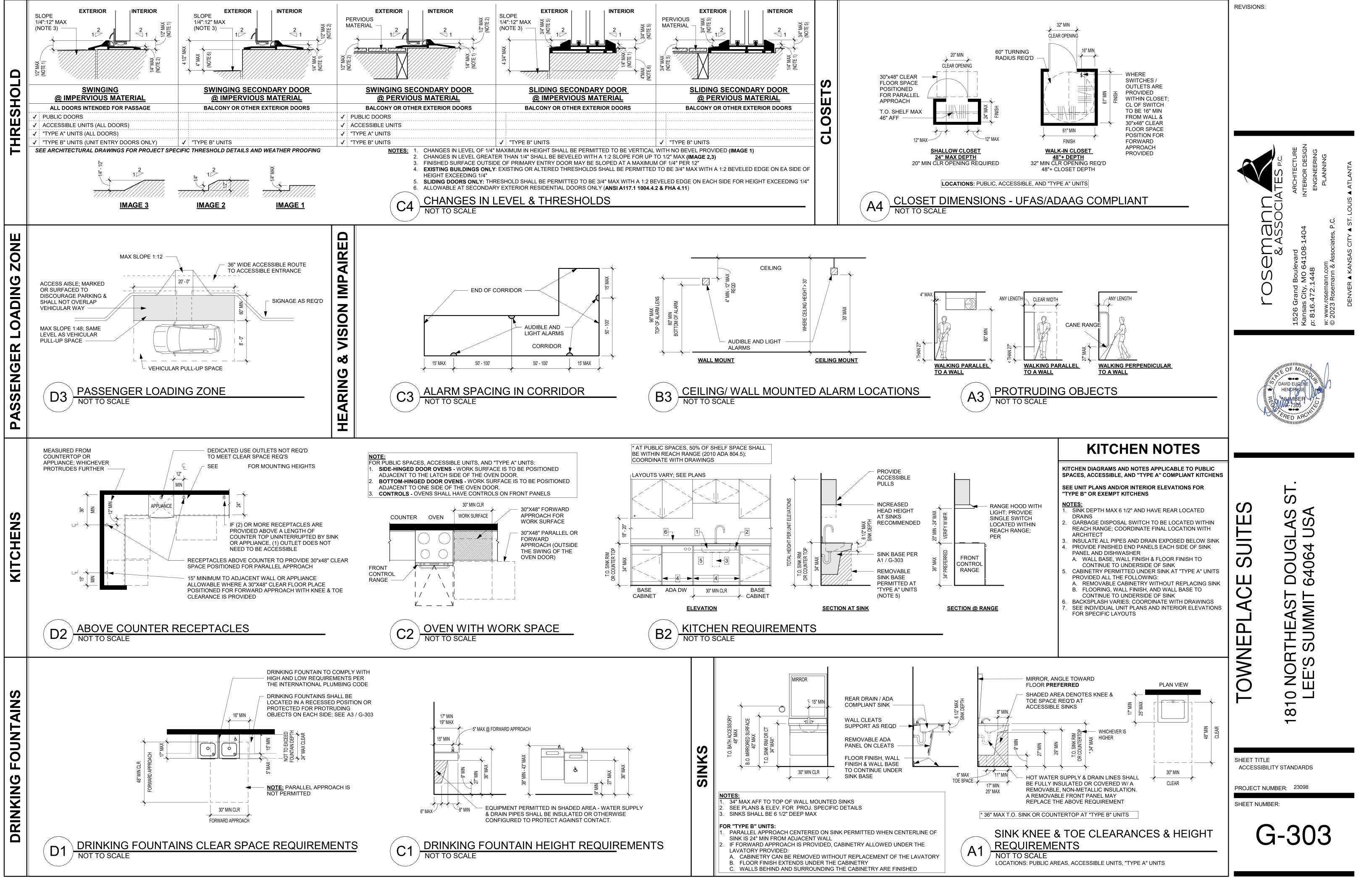


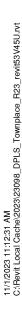
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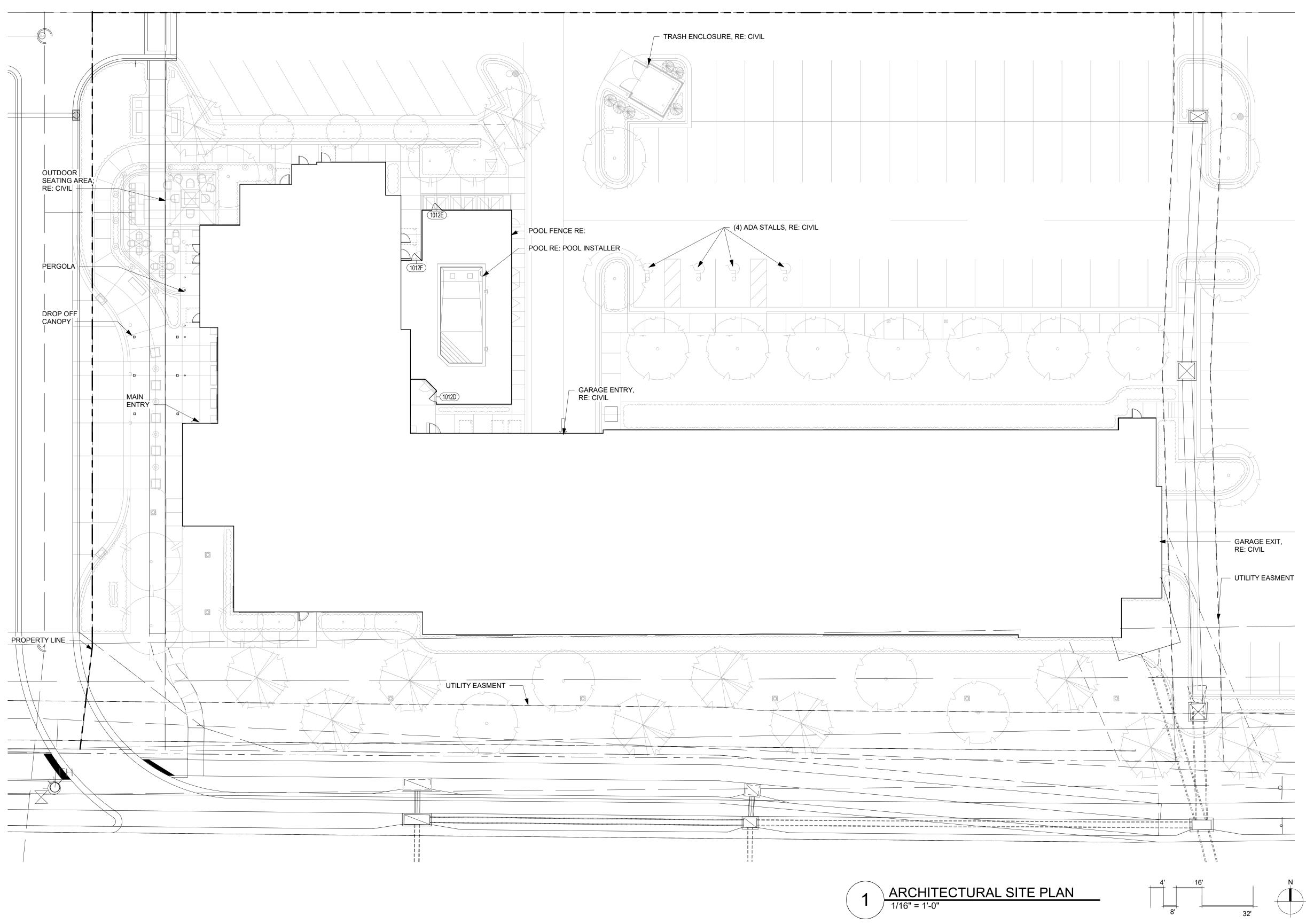


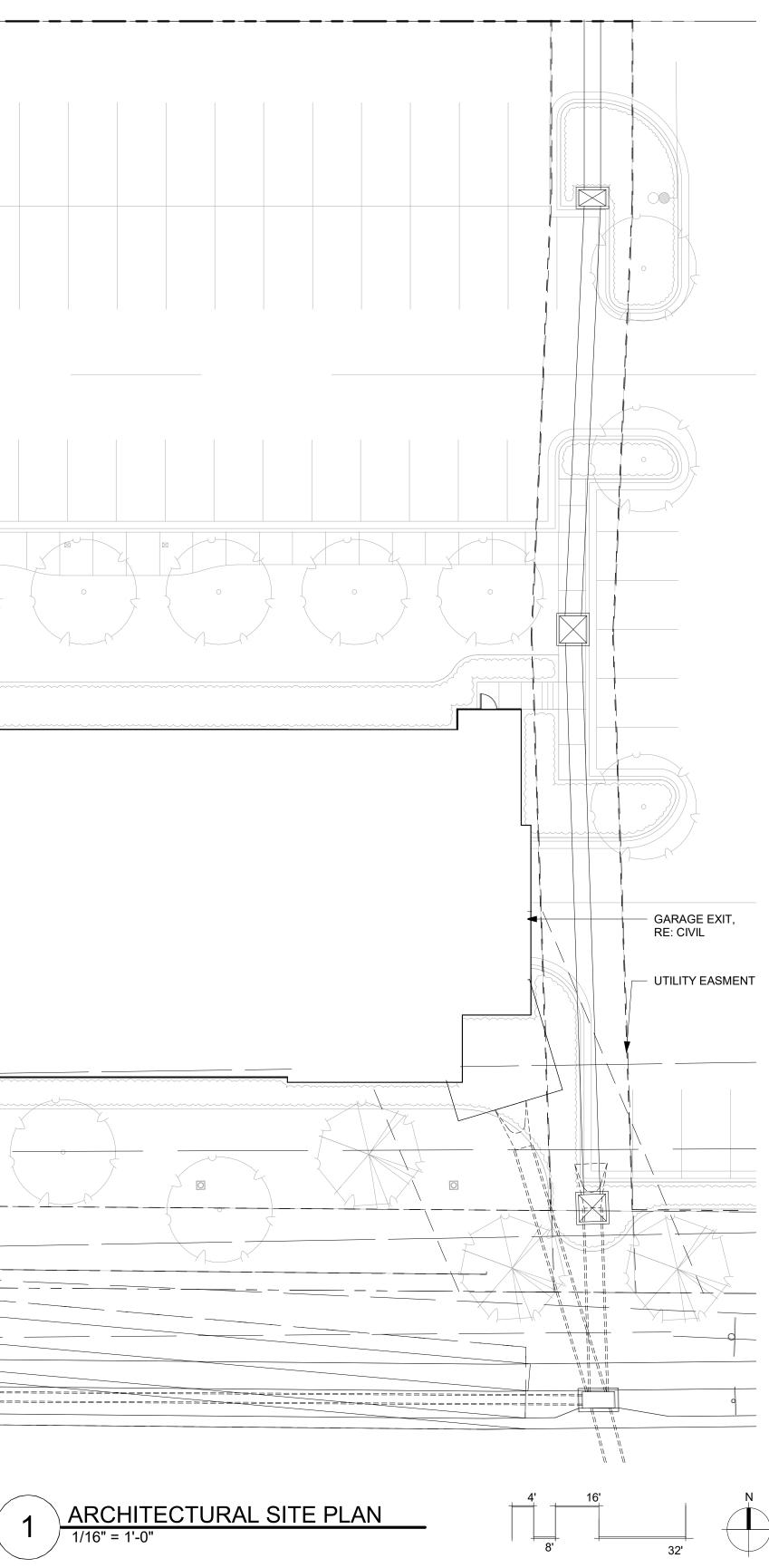
REFERENCE G-003 FOR GENERAL NOTES DIAGRAMS BELOW ARE APPLICABLE TO PUBLIC SPACES AND ALL UNIT TYPES UNLESS NOTED OTHERWISE

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ARCHITECTURAL SITE AMENITIES PLAN GENERAL NOTES

- ARCHITECTURAL SITE PLAN IS FOR GENERAL INFORMATION AND LAYOUT ONLY. REFERENCE THE CIVIL DRAWINGS FOR ADDITIONAL INFORMATION, BUILDING PLACEMENT, GRADES, UTILITIES AND ACTUAL FLOOR ELEVATION FOR EACH BUILDING.
- 2. DO NOT SCALE DRAWINGS.
- 3. NOTIFY ARCHITECT OF ANY DISCREPANCIES BETWEEN PROJECT DOCUMENTS AND EXISTING CONDITIONS. ANY MODIFICATIONS DUE TO DIMENSIONAL CHANGES SHOULD BE PART OF THE PROJECT COST.
- 4. GENERAL CONTRACTOR AND ALL SUBCONTRACTORS SHALL THOROUGHLY FAMILIARIZE THEMSELVES TO ALL SITE SPECIFIC REQUIREMENTS AND EXTENTS OF THE NEW WORK PRIOR TO BIDDING. NO CHANGES IN THE CONTRACT WILL BE CONSIDERED FOR INFORMATION DISCERNABLE FROM THE EXISTING CONDITIONS OR THE PROJECT DOCUMENTS.
- 5. FULLY ACCESSIBLE UNITS SHALL MEET THE REQUIREMENTS OF 2009 ICC/ANSI A117.1.
- 6. COORDINATE DUMPSTER TO BE USED TO ENSURE APPROPRIATE CLEARANCES ARE PROVIDED FOR ACCESS.
- 7. ALL UNIT ENTRIES ARE DESIGNED TO ACCOMODATE ACCESSIBLE ROUTES TO ALL OTHER BUILDINGS ON THE PROJECT SITE. ACCESSIBLE ROUTES SHALL BE COORDINATED AND MAINTAINED AT TRANSITIONS FROM SIDEWALKS TO UNIT FRONT PORCHES, AND FROM UNIT PORCHES TO UNIT ENRTY.

REVISIONS:

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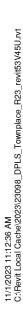
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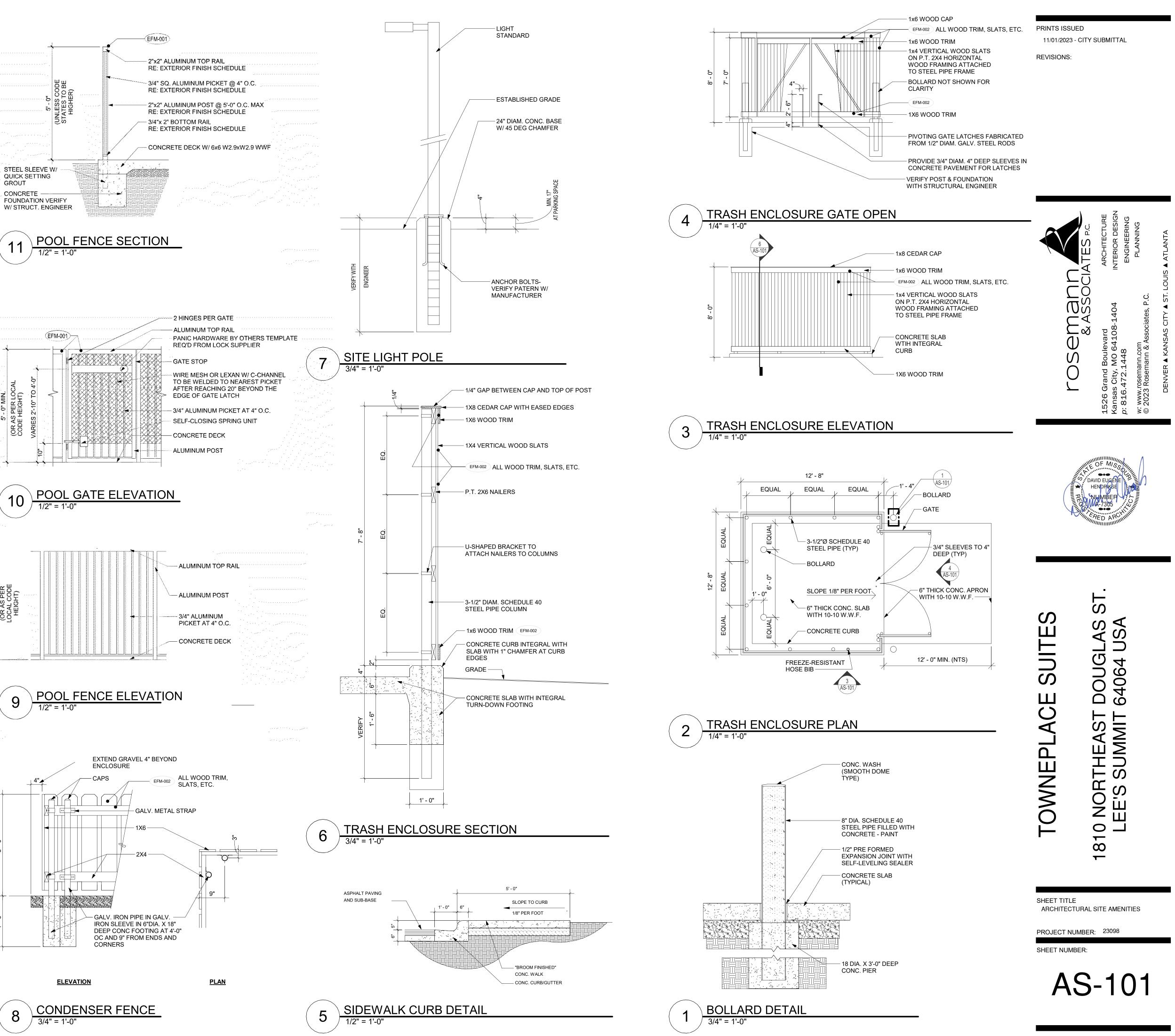
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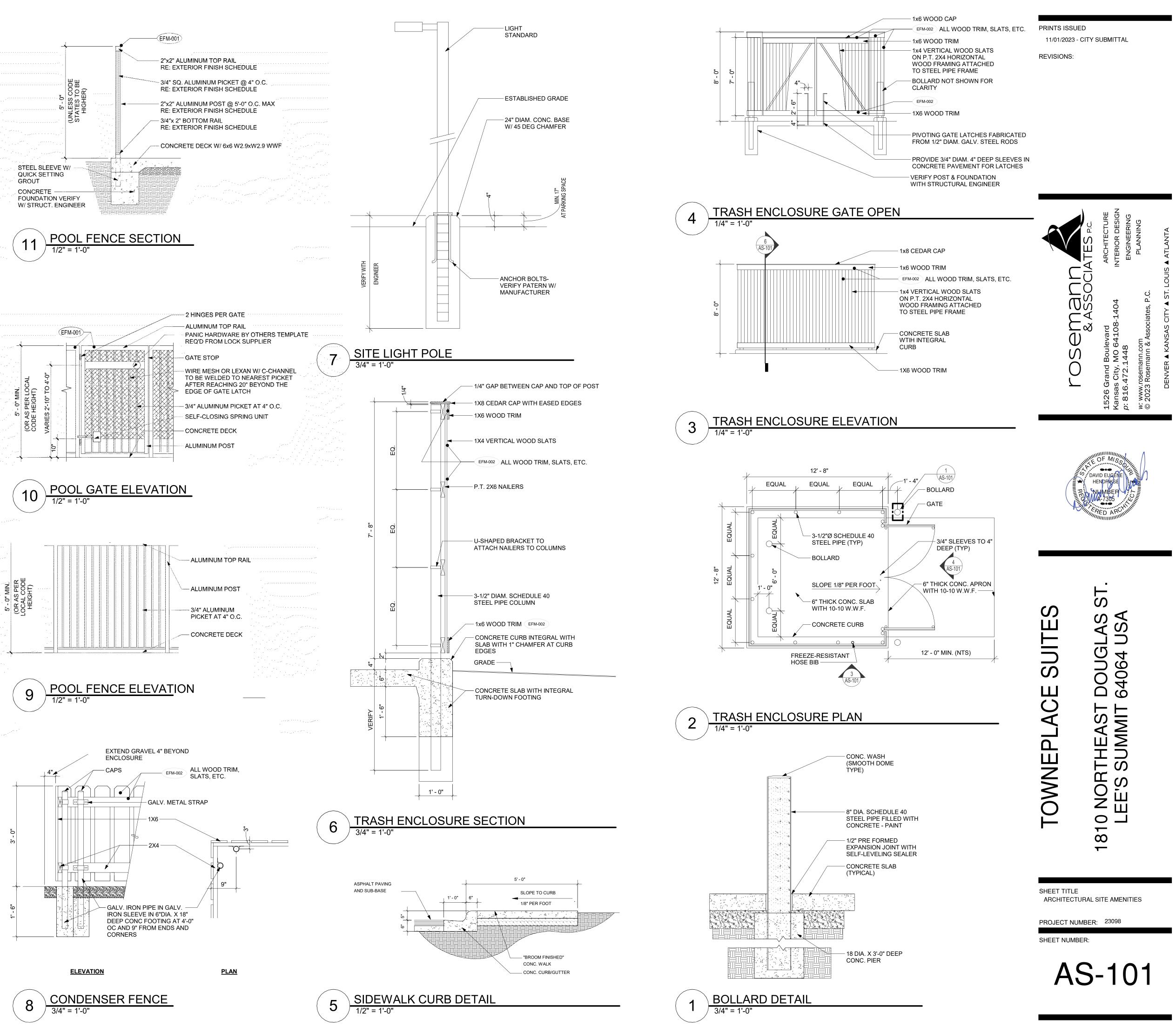
SITE PLAN

PROJECT NUMBER: 23098









A. DESIGN CRITERIA

Α.	DE	SIGN CRIT	ERIA								
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	•					rictive of 2 x the	appropriate I	./ limit (e.g. 2	L/360 = L/180) or absolute ma	iximum value
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<u>B.</u>	ST	RUCTURA	L ENGINEER	ING DESIGI	I NARRA1	<u>FIVE</u>					
1.											tion of structural
•	s	tructural de	sign to the ap	plicable build	ling codes.	. These drawing					
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	b.	 Slabs or 	n grade.	_	oncrete bit	ers and cast-in-j	nace diage p	eams.			
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	a b		beams/colum tural precast o		ow core fra	aming – see ger	eral notes se	ction "Precast	Concrete"	· .	
	С	. Structur	al steel conne	ctions - see		otes section "Str			5 S001 and 5	100 for analizati	e design criteria
	∶d ∙e	. All prem	nanufactured c	anopy and a	wning fran	ning including contractions of the section wood in ning including contractions of the section wood in the section wood in the section wood in the section in the section is the section in the section is the section in the section is the section i	onnections to	the structure.	LOUVE AND SL	ion applicable	e design onterid

f. Handrails at balconies - see S001 "Design Criteria" for applicable loading

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

3. The following items are specifically excluded from McClure's design scope as represented on these drawings: a. Requirements for fire rating of assemblies or fire protection of structural members

b. Global stability of soil mass c. Any exterior slabs, bollards, curbs, and any enclosures not shown on these drawings Interior non-load-bearing wood framed walls or furring

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

C. GENERAL NOTES

- 1. All construction shall conform to the Design Codes in Section "A. Design Criteria," including all applicable st
- referenced within those codes 2. Plan and detail notes provided on specific sheets within these drawings supplement information in these Ge
- the requirements of these notes with what is shown within the drawings. 3. Unless noted specifically on a plan, all floor plans show framing for the floor indicated and vertical framing (
- above that floor. The roof plan shows roof framing only. a. Structural steel and Hollow core floor plans show the floor framing for that level and the supporting colu Contract Document Coordination:
- a. The drawings contained herein are intended to be utilized in conjunction with other design consultant's mechanical, etc.). It is the responsibility of the Contractor to coordinate the requirements of the drawing construction i. Refer to the Project Specifications issued as part of the contract documents for information supplet
- Should conflicts between these drawings and the Specifications exist, the Contractor shall bring the structural engineer for clarification. b. Refer to the architectural, mechanical, electrical, and civil drawings for location and size of block outs,
- pads, and dimensions not shown on these drawings. c. Refer to the architectural drawings for size and location of doors and window openings, exterior wall as roof finishes. Refer to the mechanical and electrical drawings for additional information including locatio generators, etc.
- d. Omissions or conflicts between various elements of the drawings, notes and details shall be brought to t engineer and resolved before proceeding with the work. Use of Drawings in Construction
- a. The Contractor shall verify all dimensions and conditions at the job site before commencing work and si the engineer responsible for the design of that work. b. Do not use scaled dimensions; use written dimensions or, where no dimension is provided, consult the clarification before proceeding with the work. Where member locations are not specifically dimensioned, members are either located on columns
- between located members. c. Details and keynotes shown shall be incorporated into the project at all appropriate locations, whether
- McClure may provide the contractor with electronic files for their convenience and use in the preparatio electronic files are not construction documents; the contractor is not relieved of his/her duty to fully com including the need to confirm and coordinate all dimensions and details, take field measurements, verif the contractor's work with that of other contractors for the project.
- Changes During Construction: a. Openings shall not be cut or otherwise made in any structural member unless that opening is specifically shown on these drawings. The
- shall provide any additional framing required. -c. The Contractor has the responsibility to notify the structural engineer of any architectural, mechanical, electrical, or plumbing load
- imposed on the structure that is not documented on the Contract Documents or differs from what is originally shown. Provide documentation of location, load, size, and anchorage of all undocumented loads in excess of 250 lbs. Construction Sequence and Methods
- means, methods, procedures, techniques, and sequence. (e.g. OSHA).
- b. It is the responsibility of the Contractor to ensure the stability of the structural elements during construction as a result of means and sequence by providing shoring, bracing, etc. as required include wind and seismic forces.
- resisting elements. This is a means and methods item.
- construction stability shall be submitted to the structural engineer for review c. The Contractor shall consider the effects of thermal movements due to hot or cold weather construction and the potential for extreme temperature variations before the structure is complete.
- d. Any foundation wall restrained by a floor is not designed to be backfilled prior to the complete construction of the floor and the lateral provided by the Contractor.
- e. The Contractor is responsible for the protection and repair of any adjacent existing structures, surfaces, and areas which may be damaged as a result of the work.

D. SUBMITTAL REQUIREMENTS

- Submittal Procedures

- c. Incomplete submittals or submittals not meeting the requirements of this section will not be reviewed. McClure will notify the contractor that the submittal is incomplete or unacceptable and that resubmission is required.
- alculations and will not be reviewed. be reviewed
- Deferred Submittals not meeting the seal requirements of section D.2.b are considered incomplete and will not be reviewed. Resubmittals with comments from a previous review left unaddressed or without any response will not be reviewed Allow two weeks for review of all submittals unless an agreement for expedited review is made in writing by McClure
- responsible party can be established.
- comments provided prior to commencing with the respective scope of work. Deferred Submittals
- a. See Section "B. Structural Engineering Design Narrative" for the list of items considered Deferred Submittals. b. Deferred Submittals shall bear the seal of a professional engineer licensed in the state where the project is located. If the project
- the engineer sealing the Deferred Submittals. c. Deferred Submittal items shall not be installed until the Deferred Submittal documents have been approved by the Building Official. Submittal List:

Submittal Name				Required:	
	Product Data	Shop Drawings	Test Records	Engineering Drawings	Engineering Calculations
1. Concrete Mix Designs	X		X		
2. Concrete Break Reports			X		
3. Concrete Reinforcing Layout		X			
4. Concrete Anchor Bolts & Embedded Plates	X	X			
5. Concrete & CMU Anchors (Post-Installed)	X				
6. Post-Installed Anchor Substitutions	X				X
7. Post-Installed Connection Geometry Alteration	X			×	X
8. Precast Concrete Wall Panels]		X	X
9. Precast Concrete Beams & Columns				X	X
10. Precast Concrete Hollowcore Plank				×	X
11. Brick & Stone Veneer	X				
12. Structural Steel Framing	X	X			
13. Structural Steel Framing Connections		X			X
14. Steel Floor Deck	X	Х			
15. Metal Railings & Connections	X X	X			X
16. Metal Ladders & Connections	X	X			Х
17. Fall Arrest Systems		X			X
18. Wood Framing Materials	X				
19. Wood Floor & Roof Trusses incl. Reactions				x	
20. Wood Truss Connections to Supporting Structure				X	x
21. Specialty Wood Fasteners	X	1			
22. Manufactured Wood Shear Panels	X				
23. All Cladding Systems & Attachments as Identified in the Architectural Drawings	X		and an and the second	X	X

material section of the general notes for further information. c. Where "Engineering Drawings" and/or "Engineering Calculations" are indicated, the submittal must comply with the requirements of item "2, Deferred Submittals" above.

4. Submittals For Record:

They will be returned stamped as "Received For Record". Elevator Shop Drawings with Loads to Structure Mechanical Equipment Shop Drawings with Weight

E. CONCRETE

standards and documents	1. Reinforced concrete shall have the following minimum 28 day compressive strengths:
	a. Slab on grade, unless noted otherwise 4000 psi normal weight
General Notes. Always coordinate	b. Foundations and Grade Beams 5000 psi normal weight
,	c. Drilled piers and pile caps 4000 psi normal weight
(walls, openings, posts, columns)	d. Precast Concrete Walls and Columns 4000 psi normal weight
(intriet ober in Gei bestet seitunis)	e. Precast Concrete Beams 7000 psi normal weight
olumns.	f. Slabs on metal deck 3000 psi normal weight
2011115.	2. All concrete exposed to weather shall have 6% (+- 1%) air entrainment.
's drawings (architectural, civil,	3. Submit mix designs for all concrete mixes prior to placement. All submittals shall include the following:
	a. Batch quantities including admixture dosage rates.
ngs into their shop drawings and	b. Strength test results for trial mixes.
	c. Aggregate source(s) and gradation(s).
lemental to these drawings.	 d. Product data for cement, fly ash and other cementitious materials.
them to the attention of the	e. Product data for all admixtures.
s, inserts, openings, curbs, bases &	
	a. Cast-in-place concrete
assemblies, and floor, wall, and	i. Concrete cast against and permanently exposed to earth: 3"
tions of mechanical units,	ii. Concrete exposed to earth and weather (formed)
	1. #5 and smaller 1-1/2"
to the attention of the structural	2. #6 and larger 2"
	iii Concrete not exposed to weather and not in contact with ground:
	1. Slabs and walls 3/4"
I shall report any discrepancies to	2. Beams and columns 1-1/2"
	5. Provide construction or control joints in slab on grade as shown on plans. If joint pattern is not shown, provide joints at 10'-0" x 10'-0" and at
ne structural engineer for	locations to conform to bay spacing wherever possible (at column centerlines, half bays, third bays, etc.).
· · · · · · · · · · · · · · · · · · ·	6. Interface of all slab and beam construction joints shall be roughened with 1/4" amplitude. Surface of construction joints shall be clean and
ins lines or are equally spaced	free of laitance. Immediately before new concrete is placed, construction joints shall be wetted and standing water removed.
	7. Construction joints in walls shall be keyed and placed at locations approved by the Architect and Structural Engineer.
r specifically called out or not.	8. Provide control joints in all retaining walls at 15 ft to 20 ft intervals.
tion of shop drawings. These	9. Elevator pit walls shall not have control joints as they are part of the lateral system.
omply with the contract documents,	10. Provide PVC waterstops in all below grade construction joints and at other locations as shown.
• •	11. Provide compressible filler and sealant in all slab-on-grade and wall and column interfaces that are not doweled together.
rify field conditions, and coordinate	12. All column pockets shall be filled with concrete after column is erected.
	13. Sleeves and openings in slabs not shown on structural drawings or outside the parameters of typical sleeve details are not permitted, unless
	approved by the Structural Engineer.
ally shown on these drawings. The	

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

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

a. The Contractor is responsible for compliance with all applicable job-related safety standards proceeding from governing organizations

i. Stability considerations should include all applicable temporary construction and environmental loads per ASCE 37 which may

Temporary bracing shall remain in place until positive connection is made between the floor/roof diaphragm and the lateral force iii. The Contractor may at their discretion employ a Specialty Structural Engineer, licensed in the state where the project is located, for the design of any temporary bracing, lifting, rigging, and shoring. Any sealed drawings, calculations, reports, etc. prepared for

bracing elements (shear walls, braced frames, etc.) below it. For backfilling before this time, temporary bracing shall be designed and

a. The Contractor shall provide all submittals in PDF format unless otherwise requested or indicated in the Project Specifications. b. All submittals must be reviewed by the Contractor prior to McClure's review. The Contractor is responsible for reviewing each submittal for basic coordination with these drawings and to verify that all the required components of the submittal are incorporated. The submittal must bear the electronic review stamp of the Contractor before McClure will proceed with the review.

Submittals requiring engineering calculations for all or a portion of the work are considered incomplete without the sealed

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

e. McClure's submittal review scope of work includes a single submittal review and one review of the revised submittal if required (two

reviews total of the same submittal). Time required for more than two reviews of a submittal is considered an additional service and will be billed hourly. McClure reserves the right to withhold review of a submittal surpassing this allowance until proper billing to the

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

requires a licensed Structural Engineer (S.E.) as the Engineer of Record according to state laws, the same qualification level applies to

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

b. "Product Data" may indicate mill certifications, material data sheets, Evaluation Service Reports (ESRs), etc. See requirements of each

a. The following items impact the structural design and therefore must be submitted to the engineer; however, they do not require review.

Genera

and shall be placed no closer than 3 diameters or widths on center.

16. See "G. Foundations" section 5 for requirements at slab on grade.

lavers of 10mil polyethylene sheeting or equivalent.

F. REINFORCING FOR CONCRETE

15. Conduits and pipes shall not be permitted in concrete pilasters or columns.

beyond equipment a nominal 6" on all sides. Provide reinforcing per details.

a. All reinforcing steel to be ASTM A615, Grade 60, deformed bars, unless noted otherwise. Any reinforcing to be welded shall be ASTM A706 and welded with E80 electrodes.

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

19. At floor drains, locally slope floor towards drain. See architectural and plumbing drawings for drain locations.

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

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

14. Conduit and pipes embedded in slabs, walls, or grade beams shall be no larger in outside dimension than 1/3 the overall member thickness

18. Provide concrete housekeeping pads under all mechanical, plumbing, fire protection, and electrical equipment per plans. Pads shall extend

17. Bond break material for slip joints shall be 1/8" thick tempered wood particleboard, 1/8" thick high-density plastic elastomeric strips, two

20. Foundation walls shall be temporarily braced until positive attachment is made to floor framing per details. This is a means and methods

d. All reinforcing, including dowels, shall be securely tied and cast with the lower member. Placing reinforcing after concrete has been placed will not be permitted

e. Field bending of reinforcing partially embedded in concrete will not be allowed unless specifically noted on the drawings or approved by the Structural Engineer. f. All reinforcing bars shall be contact lap spliced or doweled as follows, unless noted otherwise:

. I. Antennotonig bara an									_
		Tensio	n Developm	ent and S	Splice Length	ns for fic =	5,000psi		
• • • • • • • • • • • • • • • • • • •		Deve	lopment	Class	"B" Splice	Stan	dard 90 de	g. Hook	
	Bar Size	Top Bar	Other Bar	Top Bar	Other Bar	Embed	Leg Length	Bend Dia.	
	#3	17	13	22	17	6	<u> </u>	2-1/4	
	#3 #4	22	17	29	22	6	8	3	
	#5	28	22	36	28	8	10	3-3/4	
	#6	33	26	. 43	33	9	12	4-1/2	
	#0	49	37	63	49	11	14	5-1/4	•
	#8	55	43	72	49 55	12	14	6	
	#0 #9	63	43	81	63	14	19	9-1/2	
	#9	70	40 54	91	70		1 A L	10-3/4	·
an a						15	22	•	
	#11	78	60 70	101	78	.17	24	12	
	#14	94	72		· · · · ·	- 29	31	18-1/4	
an a	#18	125				- 39	41	24	
an an an taon an an ann an taon an taon ann an taon an Taon an taon an			-		Splice Lengt				_
		Deve	lopment	Class	"B" Splice	Stand	dard 90 de	g. Hook	
	Bar	Тор	Other	Тор	Other	Embed	Leg	Bend	
a di kacamatan kacama Katamatan kacamatan ka	Size	Bar	Bar	Bar	Bar		Length	Dia.	
	#3	19	15	24	19	6	6	2-1/4	
	#4	25	19	32	25	7	8	3	
	#5	31	24	40	31	9	10	3-3/4	
	#6	37	29	48	37	10	12	4-1/2	
المراجع بالمراجع المراجع المراج المراجع المراجع	#7	54	42	. 70	54	12	14	5-1/4	
	. #8	62	48	80	62	. 14	16	. 6	
	#9	70	54	91	70	15	19	. 9-1/2	
	#10	79	61	102	79	17	22	10-3/4	
المراجع المراجع المراجع المراجع	#11	87	67	113	87	19	24	12	
	#14	105	81	·	1916-ma	. 32	31	18-1/4	
	#18	139	107		ter term	43	41	24	
· · · · · · · · · · · · · · · · · · ·	1. Straiç	ght develop	ment and Cl	ass "B" spl	ice lengths sh	iown in abo	ove tables a	re based or	1

uncoated bars assuming center-to-center bar spacing $\geq 3^*d_b$ without ties or stirrups or $\geq 2^*d_h$ with ties or stirrups, and bar clear cover $\geq 1.0^*d_b$ Normal weight concrete as well

as no transverse reinforcing are both assumed.

3. For special seismic considerations, refer to ACI 318 Code Chapter 21.

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

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

Provide 500 pounds of miscellaneous straight bar reinforcing (#4 & #5) to be used in field for special conditions. Labor for placing same to be included.

M. STEEL FLOOR AND ROOF DECK

 General a. Install steel deck according to procedures outlined in the latest edition of the "SDI Manual of Construction with Steel Deck" published by the Steel Deck Institute. One copy shall be maintained on site. b. All steel roof deck shall be welded to supporting beams and joists and erected in accordance with manufacturer's latest

- Deck shall be continuous over 3 spans, unless noted otherwise.
- Provide welds or screws at parallel edges equal to specified fastening as supports. Fasten to all parallel supports both at edges and in the field of the deck. Raise steel supports or provide shims at weld points if the deck valley does not engage the support. Provide welding washers as required by manufacturer's recommendations.

- All miscellaneous accessories -- pour stops, column closures, etc. -- will be installed in accordance with mfg recommendations and the Steel Deck Institute. Pour stops shall be A36 steel angles (1/4") to finish floor height unless otherwise noted. The use of any equipment weighing over 150 pounds for installation or finishing of concrete or roofing is prohibited without prior
- approval from the Engineer. Request MUST be made prior to submittal of shop drawings for deck and supporting structure to be considered.
- i. Concrete placed on steel deck shall have a constant thickness. Thickness shall be maintained by probing the deck at supports and at . mid-span between supports. It is not permissible to finish the deck to be flat unless a design is submitted demonstrating that the deck and supporting structure can support the additional concrete weight.

Roof Deck: a. Roof deck properties shall be as follows based on deck type indicated on plans:

- i. 1 1/2" wide rib 22 Ga. $t_{min} = .0295$ ", I=0.155 in⁴/ft, S_p=0.186 in³/ft, S_p=0.192 in³/ft, and F_v=33 ksi b. Roof deck shall be phosphatized / painted unless noted. Coordinate with roof system - galvanized deck is required for some insulating
- concrete roof systems Roof deck shall be welded to supports with 5/8" Ø puddle welds and fastened at sidelaps with #10 screws as follows:

 1.5B: 36/4 Weld pattern w/ 1 sidelap fastener per span 3 Floor Deck:

- a. Floor deck properties shall be as follows based on deck type indicated on plans:
- i. 1 ½" Normal Weight Concrete on 9/16" deck (2" Total) 9/16" non-composite 28 Ga.: $t_{min} = .0149$ ", $I_p = 0.012$ in^4/ft $I_n = 0.012$ in^4/ft, $S_p = 0.035$ in^3/ft, $S_n = 0.036$ in^3/ft, $F_v = 60$ ksi, Reinforcing = WWF 6x6-W1.4xW1.4

b. Floor deck shall be welded to supports with 5/8"Ø puddle welds with 30/4 pattern, with 0 sidelap fasteners. Metal floor deck shall be galvanized in accordance with the requirements of ASTM A653-94 G90.

2. Standard 90 deg, hook embedment lengths are based on bar side cover ≥ 2.5" and bar end cover $\geq 2^n$ without ties around hook. All tension splices shall be Class "B" splices unless noted otherwise on plans,

Provide corner bars to match longitudinal reinforcing in all footings. Provide (2) corner bars at tee intersections.

 Slabs and Slabs-on-Grade a. All slabs on grade to be reinforced with 6x6 - W2.9xW2.9 welded wire fabric, unless noted otherwise 3. Walls

1. Foundation design is based on Geotechnical Report prepared by Olsson, dated Aug. 10, 2023. See documents for additional information The geotechnical report shall be considered part of the construction documents.

2. A geotechnical representative shall be retained on site for all construction activity to verify that all proper requirements have been met to meet the design requirements outlined in the geotechnical report. Representative shall be Olsson Engineers or someone familiar with all documents of the geotechnical investigation provided for the project.

3. The Contractor shall provide dewatering of excavations from surface water and ground water. Do not place concrete if water is present at base of excavation. 4. Piers

a. Piers shall be drilled piers with adequate capacity and shall have a depth into soil strata as indicated on the "Drilled Pier Schedule" on sheet S100. Depth of pier into indicated soil strata shall be verified by the Geotechnical Engineer's representative or other qualified aeotechnical personnel b. Excavations for drilled piers shall be approved by the geotechnical engineer prior to placing reinforcing and concrete. The inspector

shall be present to continuously monitor the drilling operations. The geotechnical engineer shall submit boring logs and a letter of compliance to the owner. c. Concrete should be placed in pier holes immediately after holes are drilled, cleaned, and observed. Concrete for piers shall be as

specified in Specification Section 033000 Cast-In-Place Concrete. Concrete shall not be placed if there is more than 3" of free water at the bottom of the hole. Pumping the bottom of the pier holes to displace the water shall be done if required. 5. Slab on Grade

 a. Slabs shall be constructed as shown on the plans. b. Parking slab-on-grade shall be placed on subgrade prepared in accordance with the requirements of the geotechnical report and the details in these construction documents c. A 10mil minimum vapor retarder shall be installed under all slabs on grade in occupied or conditioned spaces per the drawings. See the geotechnical report for additional information regarding the installation of the vapor retarder.

-d. Provide joints at 30 x slab thickness (+/-) in both directions and located to conform to bay spacing wherever possible (at column centerlines, half bays, third bays, etc.). Submit control joint layout for approval by the Structural Engineer. Control joints shall not be placed parallel within 12'-0" of any walls below grade. e. Saw cut control joints shall be done late enough to prevent raveling of the cut edges and early enough to prevent racking of the slab ahead of the saw blade.

f. Plumbing and utilities passing through the slab on grade shall be constructed with flexible fittings to allow for slab movement. The expected slab movement for the parking slab shall be considered up to 2" minimum for fittings. g. Concrete slab to be cured according to ACI Standards. Concrete slab cure to be compatible with any sealer, grout, or adhesive that may be used in the floor later.

h. Locally slope floor towards any floor drains. See architectural and plumbing drawings for drain locations. Geotechnical Testing Agency Requirements

a. If the geotechnical representative on site takes exception to anything in the Geotechnical Report and requires additional field investigation to clarify those exceptions, the cost of such investigation shall be included in the additional fee for field quality control and testing and identified as such. All other exceptions shall be documented and approved by the geotechnical engineer b. The geotechnical representative must have read all documents pertaining to the geotechnical report for the project and have understood and accepted the criteria contained in the report.

c. The geotechnical representative must understand and be able to make decisions affecting the work for field observations and conditions described in the report during construction. The representative must be capable of advising the owner or contractor for procedures regarding, but not limited to, adjustments of pier depth, adjustments of bearing strata, adjustments of pier lengths, sub-

grade preparation, dewatering activities, and other construction considerations. d. The geotechnical representative must be able to recognize conditions where design bearing or skin friction parameters for the drilled piers cannot be achieved and provide additional recommendations for revisions and recommended design criteria for rework. See notes on sheets and details for additional information.

H. POST-INSTALLED ANCHORS TO CONCRETE AND MASONRY

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

a. Expansion anchors: Concrete

Hilli Kwik Bolt TZ (ICC-ES ESR1917).

Simpson Strong-Bolt 2 (ICC-ES ESR3037) DeWalt Power-Stud+ SD2 (ICC-ES ESR2502).

ii. Grout-filled Concrete Masonn

Hilli Kwik Bolt 3 (ICC-ES ESR1385) Simpson Strong-Bolt 2 (UES ER0240)

DeWalt Power-Stud+ SD1 (ICC-ES ESR2966).

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

Hilti HIT RE 500-SD (ICC-ES ESR2322) or Hilti HIT-HY 200 (ICC-ES ESR3187). Simpson AT-XP (UES ER263), SET-XP (ICC-ES ESR2508) or ET-HP (ICC-ES ESR3372) DeWalt Pure 110+ (ICC-ES ESR3298), PE1000+ (ICC-ES ESR2583), Pure 50+ (ICC-ES ESR3576), AC 200+ (ICC-ES ESR4027), or AC100+ Gold (ICC-ES ESR2582)

ii. Solid grouted concrete masonry: Hilli HIT-HY 70 anchor adhesive (ICC-ES ESR3342).

Simpson AT-XP (UES ER0281), SET-XP (UES ER0265) or ET-HP (UES ER0241) DeWalt AC100+ Gold (ICC-ES ESR3200)

iii. Hollow concrete or multi-wythe clay masonry:

Hilti HIT-HY 70 with screen tubes (ICC-ES ESR3342).

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

c. Screw anchors: Concrete

Installation:

Hilli Kwik HUS FZ (ICC-FS FSR3027) Simpson Titen HD (ICC-ES ESR2713)

DeWalt Screw-Bolt+ (ICC-ES ESR2526)

 Grout-filled concrete mason Hilli Kwik HUS EZ (ICC-ES ESR3056)

Simpson Titen HD (ICC-ES ESR1056) DeWalt Screw-Bolt+ (ICC-ES ESR1678)

2. Post-installed anchors shall only be used where specified in the drawings. The Contractor shall obtain approval from the engineer prior to using post-installed anchors for missing or misplaced cast-in-place anchors. 3. All personnel installing anchors shall be trained and certified by the anchoring system manufacturer or by ACI. Contractor shall submit current certifications for all personnel. ACI certification required for all personnel installing adhesive anchors in a horizontal or overhead conditions. If a failure occurs at any time during testing or construction, personnel shall be retrained and recertified.

a. Do not cut existing reinforcing.

b. The hole through the supported steel member shall be 1/16" larger in diameter (1/8" for screw anchors) than the anchor unless noted otherwise. Use plate washers with a standard size hole welded to steel members where oversized holes must be used. c. Holes shall be drilled per the manufacturer's written instructions as outlined in the ESR. - d. Where applicable, installation shall follow cleaning procedure indicated in the ESR. Holes shall be made with a hammer drill. Use of a

core drill is not allowed. 5. Special inspection shall be provided for all post installed anchors as required by the building code and/or ICC-ES report. Written special inspection reports shall be submitted to the registered design professional in responsible charge by the special inspector. The reports shall record and report the following as a minimum:

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

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

Anchors supporting dead or live loads in tension.

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

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

b. Prior to and during installation of anchors, inspection and report shall include: Installer shall have reviewed manufacturer's ESR report and written installation procedures and has been certified by the

manufacturer or ACI.

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

Whether hole was made with a hammer drill Whether manufacture's written procedures for anchor installation were followed

Embedment depth and concrete or block thickness.

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

 All test locations. Anchor size and/or type

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

Mode of failure. Photographs of test equipment and typical failures.

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

I. PRECAST CONCRETE

1. All precast concrete shall be designed for the loads indicated, and within the dimensional limits shown on the Architectural and Structural drawings, including handling and erection stresses. 2. All shop drawings for precast concrete members including walls, beams, columns and floor planks, along with accompanying design

calculations, shall be submitted for review, and shall bear the seal of a design professional registered in the state of the project. 3. Analysis and design of all precast concrete shall be in accordance with the following:

a. Building design code referenced in the "Design Criteria" section.

"Building Code Requirements for Structural Concrete", ACI 318. "Manual for Structural Design of Architectural Precast Concrete", PCI MNL-121.

d. All exposed precast extending below grade must meet the requirements of ACI 318 Chapter 19 and the requirements for concrete in the Exposure Class "C2"

4. Precast shall bear on a continuous high-density plastic, or hard board bearing strips, 1/8" thick, at CMU bearing locations, and as noted on the plans. 5. Hollowcore Plank

a. Minimum 28-day concrete compressive strength for precast shall not be less than 5,000psi and keyways shall not be less than 4,000psi Hollowcore keyways shall be grouted solid. b. Hollowcore to be produced with an intentionally roughened surface.

c. Hollowcore units shall be designed for the loads denoted on S004 in addition to self-weight of precast as well as any line or point loads specifically denoted on the plans/details.

d. Narrow pour strips identified by the shop drawing layouts shall be formed and poured solid by the General Contractor.

PRINTS ISSUED 11/01/23 - CITY SUBMITTAL

REVISIONS:

11/01/2023



NOTICE: McClure Engineering Co. is not responsible or liable for any issues, claims, damages, or losses (collectively,

"Losses") which arise from failure to follow these Plans, Specifications, and the engineering intent they convey, or for Losses which arise from failure to obtain

and/or follow the engineers' or surveyors' guidance with respect to any alleged errors, omissions, inconsistencies,

ambiguities, or conflicts contained within the Plans or Specifications.

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

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SHEET TITLE GENERAL NOTES

PROJECT NUMBER: 202300033



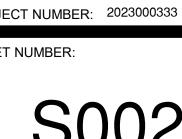
K. WOOD FRAMING AND CONNECTION J. STRUCTURAL STEEL 1. Install rough carpentry according to th 1. Materials: verify all dimensions prior to erection. a. Materials shall conform to the following, unless noted otherwise. Material: ASTM A992, Fy = 50ksi Rolled WF shapes a. Sawn lumber ASTM A572-50 Plates and angles Sawn lumber shall be grade Channels ASTM A36 All members shall meet streng HSS: Rectangular ASTM A500, Grade C Joists, rafters, and nailers with ASTM A500, Grade C HSS: Round UNO. vi. Bolts ASTM F3125 iv. Joists, rafters, and nailers wi All bolts shall be Grade A325 or F1852, UNO better, UNO. Bolts designed as "A490" shall be Grade A490 or F2280 v. All members used as column ASTM A563 DH or A194 Nuts VIL the time of erection. ASTM F436 viii. Washers vi. All exterior posts shall be We ASTM F1554 Grade 36, UNO Anchor Bolts vii. Bearing and shear wall studs. Threaded Rod ASTM A36 · X. b. Structural Composite Lumber ASTM A108, Type B Nelson headed shear stud connectors or equal. xi. Studs SCL shall meet material spec Matching weld metal, 70 ksi minimum strength. xii. Electrodes SCL shall include laminated b. Finishes lumber (PSL) Prepare all surfaces that will be exposed in accordance with SSPC SP3. iii. All SCL materials shall be gra All exterior steel components exposed to view or weather shall be galvanized in accordance with ASTM A123. c. Glued-laminated timber (GluLam) iii. All exterior welded connections shall be cold galvanized in accordance with ASTM A780. GluLam shall be graded as in 2. Fabricator: d. Structural Panels a. Steel fabricator shall be AISC Certified. All plywood or oriented strang b. Structural members shall be detailed, fabricated, and erected in accordance with the latest edition AISC Code of Standard Practice. and PS 2 or ANSI/APA PRP c. Structural steel fabrication and erection drawings must be submitted to the engineer for review and approval prior to fabrication. All structural panels (walls, flo d. Fabricator shall engage a professional engineer registered in the state of the project for the design and detailing of: e. Connectors and Fasteners Steel connections. Metal connectors and assoc Temporary bracing. 1. Untreated Lumber Steel deck (for continuity and load transfer). a. Connectors 3. Connections: Bolts and Anchor Ro a. The contractor has the option to use bolted or welded connections. Any connections not specifically detailed on the drawings shall be Nails and Staples designed by a professional structural engineer licensed in the project state and retained by the fabricator. In general, any Sodium Borate (SBX) P connections shown on the drawings are schematic and are intended to show only the relative relationship of the connected members. Connectors b. Structural design calculations for all beam and bracing connections shall be submitted to the engineer prior to fabrication and should Bolts include the following (as a minimum): Anchor Rods All plate dimensions and grades (minimum plate thickness shall be 3/8"). d. Nails and Staples All weld sizes, lengths, pitches and returns. All Other Pressure Trea iii. Number and type of bolts. a. Connectors c. Connection design forces: b. Bolts Beam shear connections shall be designed for the actual reactions indicated on the drawings. Connection forces shown on c. Anchor Rods drawings are envelope reactions based on ASD load combinations. d. Nails and Staples Connections indicated on the drawings as moment-resisting shall be designed for the moment shown. If moment is not indicated Fasteners utilizing dissimilar on the drawings, connection shall be designed to develop the full capacity of the member. Power driven fasteners shall iii. Columns have not been checked for local effects at connections. Fabricator shall verify if stiffener or web doubler plates are iv. Fastener installation whether required and provide as necessary. Column size may also be increased with approval of the Structural Engineer. recommendations. In generation iv. Connection loads indicated on the drawings include compensation for Code permitted stress increases and load reductions for support framing damaged by connection design. Aluminum fasteners and flash d. Bolted Connections: 3. General: Minimum bolt diameter shall be 3/4". All light framed wood construction Slip critical connections shall be used for bracing members, moment-resisting connections, cantilevers, and as indicated on the accordance with the table below. drawings. Standard oversized and long-slotted holes are permitted for friction-type connections. b. Sill plates shall be anchored to th iii. All non-slip-critical connections shall be typical bearing type. Oversized or slotted holes are not permitted unless indicated on the Plywood/OSBS wall, floor or roof d. Splicing of structural members is iv. The fabricator is responsible for verifying the tensile capacity of axially loaded members with the presence of bolt holes. Increase e. All framing in direct contact with v member size; add plates (etc) as required. lumber in accordance with the AV e. Welded Connections: All framing indicated to be fire-rel All fillet welds shall be sized according to AISC minimums, but never less than 3/16" (UNO). UCFA, Type A or ICC-ES ESR 26 All welds shall be performed in accordance with the latest edition of the AWS Structural Welding Code. All wood shall be stored on site a 4. Erection: material that is straight. All stored a. All structural steel to be fabricated and erected in accordance with latest AISC specifications. Wood connectors shall be installed It is the responsibility of the contractor to ensure that structure is maintained in a safe, stable configuration at all times. All wood denoted as requiring fire Any shoring required shall be submitted with engineering calculations for approval. Use 4x4, 4x6 and 6x6 columns as b. Splicing of steel members not specifically shown on the drawings is prohibited without prior approval from the engineer. All multi-ply beams, joists and hea c. All beams shall be installed with the mill camber up. Fasten sawn lumber member 5. Steel Lintels: Fasten structural composite a. Loose lintels for masonry at all openings shall be the following, one angle per 4" wythe of masonry: Standard cut washers shall be used under bolt heads and nuts bearing against wood, unless noted otherwise per shear wall anchorage L 3-1/2 x 3-1/2 x 5/16 for spans less than 5'-9" L 5 x 3-1/2 x 5/16 for spans between 5'-9" and 7'-11" m. Wall studs are designed based on being fully braced by sheathing. Design of temporary or permanent blocking or bridging for support iii. L 6 x 3-1/2 x 5/16 for spans between 8'-0" and 9'-7" of construction loads by unsheathed walls is the responsibility of the contractor. iv. L 7 x 4 x 3/8 for spans between 9'-8" and 11'-10" n. Wood joists shall bear on the full width of supporting members (stud walls, beams, nailers, etc.) unless noted otherwise. b. Lintel sizes are based on 36 psf brick weight with 8'-0" max height of brick above the lintel. Subject to compliance with the project requirements, wood connectors, joist hangers, post caps and bases, holdowns, and related c. Lintels shall bear 8" minimum each end. hardware shall be manufactured by Simpson Strong-Tie Company, Inc. or approved equal. d. Lintels carrying brick shall be galvanized. Contractor shall follow the manufacturer's latest recommendations for installation of connectors. e. All double angle lintels back-to-back shall be bolted at 32" o.c. maximum spacing, with 5/8" diameter A307 bolts, a minimum of two Other manufacturers may be acceptable. Submit substitution request demonstrating that the proposed hardware has the same or bolts per span. greater capacity for each connection. Allow two weeks for review. f. See architectural and mechanical drawings for opening sizes and locations. All beams and joists not bearing on supporting members shall be framed with Simpson joist hangers. Use joist hangers per schedule and details. The joist hangers shall be installed using nails or screws supplied by the hanger manufacturer as required for the hanger L. WOOD SHRINKAGE Sill plates of all bearing walls on concrete shall be anchored with anchors as shown on the drawings. Sill plate anchors shall be located a maximum of 1'-0" from corners, ends of walls and sill plate splices. Provide (2) anchors minimum in each sill plate segment Refer to 1. IBC 2304.3.3 requires that architectural, mechanical, electrical, and plumbing systems be designed to accommodate movement due to plans and details for shear wall anchorage requirements. Nailers shall be anchored to steel beams and columns with 1/2" diameter A307 bolts with required washers at a maximum spacing of shrinkage. McClure Engineering Co. takes no responsibility for the naturally occurring shrinking that will occur. 24" on center (alternate sides), unless noted otherwise Estimated values are based upon the following moisture content: s. Wall studs, jamb studs, and beam support studs shall have adequate vertical blocking installed to transfer all vertical loads to the a. At installation (MC) = 19% foundation. b. At equilibrium (EMC) = 8% 4. Wood Floor and Roof Trusses: 3. The following recommendations are intended to minimize the potential issues associated to wood shrinkage. Implementation and liability are a. Provide wood trusses capable of withstanding the design loads within the limits and under the conditions indicated. Truss design shall ultimately up to the contractor or design professional responsible for the impacted trade. be in accordance with the Building Code and TPI-1 Nation Design Standard for Metal Plate Connected Wood Truss Construction. a. Mechanical, Electrical, Plumbing b. Metal gusset plates shall be designed, manufactured, and approved according to IBCO requirements. i. Allow construction gaps in the wood framing to close by delaying installation of MEP as long as possible to allow for additional c. Wood trusses shall be of sawn lumber with 2x nominal thickness. d. In addition to the loads indicated in section "A. Design Criteria", wood trusses shall be designed for all applicable wind, seismic, and dead load to be installed. snow (including drift) loads required by Building Code and noted on plans. ii. Provide oversized or long slotted holes at pipe penetrations. Holes must be within conformance of typical penetration details. e. Truss design and shop drawing preparation shall be supervised by a registered professional engineer licensed in the state where the ii. Rigid connections shall be adjusted before completion of construction of closing of wall and ceiling assemblies. project is located. Submittals shall be signed and sealed and include comprehensive truss layout plans and design calculations that iv. All vertical sheet metal down spouts shall have intermediate slip joints. indicate species and grades of lumber, design stresses, size and type of connector plates used. v. Roof Drains shall utilize adjustable fittings. Fittings must be adjusted at the completion of construction and then as required to f. Fabricator shall determine truss diagonal locations. Truss configurations shown on drawings are diagrammatic only. Bearing points maintain proper drainage. shall coincide with intersections of diagonals and chords. All dimensions shall be determined by the truss manufacturer. The manufacturer and contractor shall coordinate all architectural and MEP components with the truss layout and profile. b. Architectural Considerations g. The manufacturer shall provide all open web trusses and accessories as shown on the structural and architectural drawings and as i. Stucco, EIFS and brittle finishes shall have horizontal expansion joints, slip joints with appropriate waterproofing. required for a complete project. This includes all blocking, bridging, bracing, and drag components required for construction. ii. Brick and stone finishes shall have ties that accommodate differential movement. h. All truss-to-truss connections and truss to supporting member connections shall be designed and detailed by the truss supplier and the ... iii. Provide adjustable thresholds or transitions at rigid transitions such as CMU or concrete stair and elevator shafts. size and type of connectors included in the sealed shop drawing submittal. Coordinate size, species, and grade of supporting chord and c. Construction tolerance web members with the truss hanger selected. i. All temporary and permanent bracing shall be in accordance with the TPI standards for bracing. The bracing shall be furnished and i. Limit shortening due to nesting by cutting all studs level square and tight against plates. ii. Structural wood panels shall have ½" relief gaps at each floor to limit bulging. installed by the Contractor. Do not use ceilings as uplift bracing at truss bottom chord. Girder trusses shown on drawings shall be designed to carry concentrated reactions from supported members. Girder trusses shall not iii. Floor sheathing shall have 1/8" gaps on all sides during installation to accommodate movement. be located directly above openings unless coordinated with the Structural Engineer. iv. Shear wall hold downs shall be check and retightened immediately prior to sheathing walls. k. Wood trusses shall be handled and erected in accordance with TPI HIB-91. Trusses shall be unloaded and stored in bundles in an v. Delay gyp topping around concrete and CMU stair or elevator shafts until competition of construction. , upright position out of contact with the ground until ready for installation. d. Material storage Any damage to the trusses shall be brought to the immediate attention of the Structural Engineer and truss supplier. Field repair and i. Stored materials shall be covered and elevation from the elements. modification of trusses shall not be made with prior written approval from the supplier, except for nominal trimming to correct length where such trimming will not impair the load carrying capacity of the truss ii. Do not allow water to pond on floor sheathing. Provide drain holes if required to allow water to quickly drain if water does Roof trusses shall be designed for the following: temporarily pond. TC DL = 10 psf TC LL = 20 psf TC SL = 20 psf C&C TC WL = +24/-48 psf MWFRS TC WL = ±17 psf e. Post occupancy BC DL = 10 psf BC LL = N/A C&C BC WL = ± 5 psf MWCRS BC WL = ±5 psf i. McClure recommends a review of roof drains every 3 months for the first 24 months of occupancy and then annually. Adjust drains End/Parapet_C&C WL = +89/-60 psf as required to maintain watertight integrity. Unbalanced Snow Load: ... ii. McClure recommends review of joints at exterior doors, windows and finish transitions. Waterproof as needed where original joints Balanced TC SL = 14psf Drift Surcharge TC SL = 36 psf Drift Width = 17'-3" fail per the architect's recommendations. 6. Floor trusses shall be designed for the following loads: TC DL = 17 psf + 15psf partition dead load TC LL = 40/100/125 psf iii. Remedial self-leveling work may be required around concrete or CMU stair and elevator towers to accommodate shrinkage. BC DL = 10 psf BC LL = ±5 psf (Coordinate LL with Architectural plans and general note section "A. Design Criteria" 7. The allowable deflection is: a. Roof Trusses L/240 Total Load: Roof Live or Snow Load: L/360 1.5" iii. Absolute Maximum: Floor Trusses L/240 Total Load: ii. Live Load: L/480 iii. Absolute Maximum:

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e American Institute of Timber Construction Manual. It is	the responsibility of the contractor to	
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stamped and visually graded with maximum 19% moistungth requirements in NDS "National Design Specification th nominal depth 8" or less shall be Southern Pine (SP)	for Wood Construction".	
th nominal depth greater than 8" shall be Southern Pine	(SP) or Douglas Fir-Larch (DFL), No. 1 or	
ns or beams (including headers) shall be coid of any sign	ificant defects (ie. Checking, warping, etc.) at $+$	
estern Red Cedar No. 2 or better. s, and wall plates, shall be Douglas Fir-Larch (DFL), No.	2 or better.	
cifications in ASTM D5456 veneer lumber (LVL), laminated strand lumber (LSL), ori	ented strand lumber (OSL) and parallel strand	
aded as indicated on the plans.) shall be manufactured and identified as required in ANI ndicated on the plans.	SI/AITC A-190.1 and ASTM D3737.	
d board (OSB) panels shall meet the strength requireme 210.	nts in Department of Commerce (DOC) PS 1	
oor and roof) shall meet the Structural 1 grading standar	d.	
ated fasteners used for the applications indicated shall r	neet the following minimum standards:	
ASTM A653 G90 odsASTM F1554 Gr36 ASTM F1667 ressure Treated Lumber		
ASTM A653 G90 ASTM A307 ASTM F1554 Gr 55 ASTM F1667 with A153 Hot Dipped Galvaniz ted Lumber (e.g. ACQ-C, ACQ-D, CA-B, CBA-A, ACZA) AISI SS Type 304 or 316 ASTM A193, GrB7 ASTM A193, GrB7 ASTM F1667 using AISI Type 304 or 316 Sta		· ·
materials are prohibited.		
comply with NES NER-272. r power driven or otherwise shall be in accordance with t al fastener heads shall be installed nominally flush with t overdriven fasteners shall be removed and replaced, hing shall not be in contact with pressure treated lumber	he outer ply of the connection. Sheathing and	
n shall be fastened as indicated on the plans. Connection	ns not detailed shall be fastened in	
e foundation as shown on the drawings. sheathing shall be fastened per the requirements showr not permitted under any circumstances.	on the drawings.	•
water, soil, concrete, masonry, or permanently exposed t WPA Standard U1 and M4 tardant treated or fire resistive on the drawings (Architect	lural or Structural) shall comply with AWPA U1	
645 and shall have UL FR-S surface burning characteris nd protected from the elements to prevent warping, cupp I wood shall be held off the ground with sacrificial dunna	ping, bowing, crooking and twisting. Use only	
ed to prevent wood from splitting or otherwise damaging e-resistive treatment shall be pressure treated according s shown on plans. Built-up sections of 2x studs shall not	to AWPA Standard requirements.	
aders shall be fastened together. rs per schedule below. lumber per manufacturer's literature.		
• · · · · · · · · · · · · · · · · · · ·		

	NUMBER - OR SPACING - OF FASTENERS REQUIRED PER CONNECTION NAIL LENGTHS ARE MINIMUM, NOMINAL LENGTHS, IN INCHES. NAIL SHANK DIAMETERS ARE MINIMUM NOMINAL DIAMETERS										
CONNECTION (2) (3) IN INCHES			,		,						
	3-1/2X0.162	3X0.148	3-1/4X0.131	3X0.131	2-1/2X0.131	3-1/4X0.120	3X0.120	2-3/8X0.113		2-1/4X0.105	2-1/4X0.09
EQUIVALENT COMMON NAIL	16d	10d			8d				6d		
				FLOOR FRA	MING						
OIST TO BAND JOISTS	3	5	5	5	N/A	6	6	N/A	N/A	N/A	N/A
EDGER STRIP	3	4	4	4	6	4	4	N/A	N/A	N/A	N/A
OIST TO SILL OR GIRDER	3	3	3	3	3	4	4	N/A	N/A	N/A	N/A
BLOCKING BETWEEN JOIST OR RAFTER TO	3	3	3	4	3	4	4	N/A	N/A	N/A	N/A
BRIDGING TO JOIST	N/A	N/A	N/A	N/A	2	3	3	3	4	3	4
RIM JOIST TO TOP PLATE	8" O.C.	6" O.C.	6" O.C.	6" O.C.	6" O.C.	6" O.C.	4" O.C.	6" O.C.	3 O.C.	3" O.C.	3" O.C.
	1		BUILT-	-UP GIRDER	S & BEAMS			1			
SPACING ALONG EDGES	24" O.C.	24" O.C.	24" O.C.	24" O.C.	16" O.C.	16" O.C.	16" O.C.	N/A	N/A	N/A	N/A
# AT ENDS & SPLICES	3	3	3	3	4	3	3	N/A	N/A	N/A	N/A
	1		CEILI	NG & ROOF	FRAMING						
CEILING JOISTS TO PLATE	3	4	5	5	5	5	5	6	N/A	N/A	N/A
CEILING JOISTS, LAPS OVER PARTITIONS	3	4	4	4	6	4	4	N/A	N/A	N/A	N/A
EILING JOISTS TO PARALLEL RAFTER	3	4	4	4	6	4	4	N/A	N/A	N/A	N/A
COLLAR TIE TO RAFTER	3	3	4	4	5	4	4	N/A	N/A	N/A	N/A
ACK FRAFTER TO HIP (TOE-NAILED)	3	3	4	4	5	4	4	N/A	N/A	N/A	N/A
ACK RAFTER TO HIP (FACE-NAILED)	2	3	3	3	3	4	4	N/A	N/A	N/A	N/A
ROOF RAFTER TO PLATE	3	3	3	3	3	4	4	5	5	5	5
ROOF RAFTER TO 2X RIDGE BEAM (DRIVEN THRU BEAM INTO END OF RIDGE)	2	3	3	3		4	4	N/A	N/A	N/A	N/A
ROOF RAFTER TO 2X RIDGE BEAM (TOE-NAIL RAFTER TO BEAM)	2	3	3	3	3	4	4	N/A	N/A	N/A	N/A
	1		1	WALL FRAM	1ING	11					
OP OR SOLE PLATE TO STUD (END-NAILED)	2	3	3	3	5	4	4	N/A	N/A	N/A	N/A
STUD TO TOP OR SOLE PLATE (TOE-NAILED)	2	3	3	3	5	4	4	5	5	5	5
CAP/TOP PLATE LAPS & INTERSECTIONS EACH SIDE OF LAP)	2	3	3	3	4	4	4	N/A	N/A	N/A	N/A
DIAGONAL BRACING	2	2	2	2	2	3	3	3	4	4	4
OLE PLATE TO JOIST OR BLOCKING @ BRACED PANELS (#/16" JOIST SPACE)	2	3	3	4		4	4	N/A	N/A	N/A	N/A
SOLE PLATE TO JOIST OR BLOCKING	16" O.C.	8" O.C.	8" O.C.	8" O.C.	6" O.C.	8" O.C.	8" O.C.	N/A	N/A	N/A	N/A
OUBLE TOP PLATE	16" O.C.	16" O.C.	12" O.C.	12" O.C.	8" O.C.	12" O.C.	12" O.C.	N/A	N/A	N/A	N/A
OUBLE STUDS	10° 0.0. 12" O.C.	10° 0.0. 12" O.C.	8" O.C.	8" O.C.	6" O.C.	8" O.C.	8" O.C.	N/A	N/A	N/A	N/A
CORNER STUDS	24" O.C.	12 0.0. 16" O.C.	16" O.C.	16" O.C.	8" O.C.	12" O.C.	12" O.C.	N/A	N/A	N/A	N/A

1. THIS FASTENING SCHEDULE APPLIES TO FRAMING MEMBERS HAVING AN ACTUAL THICKNESS OF 1 1/2" (NUMBER "2X" LUMBER) 2. FASTENINGS LISTED ABOVE MAY ALSO BE USED FOR OTHER CONNECTIONS THAT ARE NOT LISTED BUT THAT HAVE THE SAME CONFIGURATION & THE FASTENER QUANTITY/SPACING

& FASTENER SIZE (PENNYWIGHT & STYLE, E.G., 8d COMMON, "8-PENNY COMMON NAIL") 3. FASTENING SCHEDULE ONLY APPLIES TO BUILDINGS OF CONVENTIONAL WOOD FRAME CONSTRUCTION. CONNECTIONS OF SHEAR WALLS & FLOOR & SHOWN ON THE DRAWINGS.



SHEET TITLE GENERAL NOTES

PROJECT NUMBER: 2023000333

SHEET NUMBER:

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FOR PERMIT CONSTRUCTION

M^c**C**LURE["] 1901 Pennsylvania Drive Columbia, MO 65202 P 573-814-1568 NOTICE: McClure Engineering Co. is not responsible or liable for any issues, claims, damages, or losses (collectively, "Losses") which arise from failure to follow these Plans, Specifications, and the engineering intent they convey, or for Losses which arise from failure to obtain and/or follow the engineers' or surveyors' guidance with respect to any alleged errors, omissions, inconsistencies, ambiguities, or conflicts contained within the Plans or Specifications. MISSOURI CERTIFICATE OF AUTHORITY

NO. E-2006023253

EXPIRES: DECEMBER 31, 2024



PRINTS ISSUED 11/01/23 - CITY SUBMITTAI **REVISIONS:**

STATEMENT OF SPECIAL INSPECTIONS

Project Name: Discovery Park Lee's Summit Lot 3 Address: 1810 Northeast Douglas St, Lee's Summit, MO 64064

1. This Statement of Special Inspections is submitted as a condition for permit issuance in accordance with the Special Inspection and Structural Testing requirements of the Building Code. It includes a schedule of Special Inspection services applicable to this project as well as the name of the Special Inspector to be retained for conducting these inspections and tests. This Statement of Special Inspections encompasses the following disciplines:

o Architectural o Mechanical/Electrical/Plumbing

x Structural o Other:

2. The Special Inspector shall keep records of all inspections and shall furnish inspection reports to the Building Official and the Registered Design Professional in Responsible Charge. Discovered discrepancies shall be brought to the immediate attention of the Contractor for correction. If such discrepancies are not corrected, the discrepancies shall be brought to the attention of the Building Official and the Registered Design Professional in Responsible Charge. The Special Inspection program does not relieve the Contractor of his or her responsibilities.

3. Interim reports shall be submitted to the Building Official and the Registered Design Professional in Responsible Charge.4. A Final Report of Special Inspections documenting completion of all required Special Inspections, testing and correction

5. Job site safety and means and methods of construction are solely the responsibility of the Contractor. This Statement of Special Inspections includes the following building systems:

x Soils

of any discrepancies noted in the inspections shall be submitted prior to issuance of a Certificate of Use and Occupancy.

- x Fabricators
- x Cast-In-Place Foundations Elements
- o Helical Pile Foundations x Concrete Construction
- o Masonry Construction Level 2
- o Steel Construction Other than Structural Steel
- o Spray Fire-Resistant Materials
- o Exterior Insulation and Finish System (EIFS)
- o Smoke Control
- x Seismic Resistance
- o Masonry Construction Level 1 x Structural Steel Construction x Wood Construction
- o Mastic and Intumescent Fire-Resistant Coatings

o Driven Deep Foundation Elements

x Cast-In-Place Deep Foundation Elements

- o Fire-Resistant Penetrations and Joints
- x Wind Resistance

6. The following components are wind-resisting components or part of the main wind-force resisting system and are subject to special inspections in accordance with the Special Inspection Schedule - Wind Resistance: Wood Shear Walls with Structural Plywood Sheathing

7. The following components are designated seismic systems or part of the seismic-force resisting system that are subject to special inspections in accordance with the Special Inspection Schedule - Seismic Resistance: Wood Shear Walls with Structural Plywood Sheathing

8. Special Inspection Agency:

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

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

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

Special Inspection Schedule: Cast-In-Place Deep Foundation Elements							
Verification And	Applicable To	icable To Frequency					
Inspection Task	This Project?	Continuous	Periodic				
1. Observe drilling operations and maintain complete and accurate records for each element.	Х	Х	-				
2. Verify placement locations and plumbness, confirm pier diameters, bell diameters (if applicable), lengths, embedment into bedrock (if applicable), and adequate end bearing strata capacity. Record concrete or grout volumes.	Х	x	-				
3. For concrete elements, perform additional inspections in accordance with the concrete Special Inspections.	Х						
4. Determine capacities of test elements and conduct additional load tests as required.	Х	X	-				

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

Special Inspection Schedule: Structural Steel		1	
Verification And	Applicable To	Freque	
Inspection Task	This Project?	Continuous	Periodic
1. Material verification of high-strength bolts, nuts and washers:			
a. Identification markings to conform to ASTM standards specified in the approved construction documents.	Х	-	X
b. Manufacturer's certificate of compliance required.	Х	-	X
2. Inspection of high-strength bolting:			
a. Snug-tight joints.	Х	-	Х
b. Pretensioned and slip-critical joints using turn-of-nut with match marking, twist-off bolt, or direct tension indicator methods of installation.	-	-	X
c. Pretensioned and slip-critical joints using turn-of-nut without match marking or calibrated wrench methods of installation.	-	X	-
3. Material verification of structural steel:			
a. Identification markings to conform to ASTM standards specified in the approved Construction Documents and AISC 360.	Х	-	X
b. Manufacturer's certified test reports.	Х	-	Х
4. Material verification of weld filler materials:			1
a. Identification markings to conform to AWS specification in the approved Construction Documents.	Х	-	X
b. Manufacturer's certificate of compliance required.	Х	-	Х
5. Inspection of welding, structural steel:			1
a. Complete and partial penetration groove welds.	Х	Х	-
b. Multi-pass fillet welds.	Х	x	-
c. Single-pass fillet welds > 5/16".	Х	Х	-
d. Single-pass fillet welds < 5/16".	Х	-	Х
6. Inspection of steel frame joint details for compliance with approved Construction Documents:			1
a. Details such as bracing and stiffening.	Х	-	X
b. Member locations.	Х	-	Х
c. Application of joint details at each connection.	Х	-	Х
Special Inspection Schedule: Wood Con	struction		
Verification And	Applicable To	Freque	ncy
Inspection Task	This Project?	Continuous	Periodic
1. Inspection of high-load diaphragms:			
a. Verify wood structural panel sheathing is of the grade and thickness shown on the Construction Documents.	Х	-	X

	, ,		
1. Inspection of high-load diaphragms:			
a. Verify wood structural panel sheathing is of the grade and thickness shown on the Construction Documents.	Х	-	X
b. Verify nominal size of framing members at adjoining panel edges agrees with the Construction Documents.	Х	-	Х
c. Verify fastener diameter and length, number of fastener lines, the spacing of the fasteners, and the edge margins agree with the Construction Documents.	х	-	х
2. Inspection of metal-plate-connected wood trusses spanning 60 feet or greater:		1	
a. Verify temporary installation restraint/bracing are installed in accordance with approved truss submittal package.	-	-	X
b. Verify permanent individual truss member restraint/bracing are installed in accordance with approved truss submittal package.	-	-	Х

 Roof cladding and roof framing co
 Wall connections to roof and floor
 Roof and floor diaphragm systems boundary elements.

4. Vertical wind force resisting system frames, and shear walls.

5. Wind force resisting system conne
6. Fabrication and installation of systemic impact-resistant requirements.
7. Inspection of structural wood:

a. Inspect field gluing operations system.

b. Inspect nailing, bolting, anchor within the main wind force resisting s diaphragms, drag struts, braces, and
8. Inspection of cold-formed steel lig
a. Inspection of welding operation resisting system.

b. Inspection of screw attachment
other components within the main within th

a. Roof cladding

b. Wall cladding

V In

1. Inspection of pier foundations: a. Inspect placement of reinforce

b. Inspect placement of concrete

Inspection of concrete reinforcem
 a. Verify certified mill test reports
 requirements.

b. Where reinforcing complying tests shall be performed to determi 3. Inspection of structural steel.

a. Inspections shall be in accord requirements of AISC 341.

4. Inspection of cold-formed steel fr a. Inspect welding operations of

system. b. Inspect screw attachment, bol components within the seismic force braces, diaphragms, collectors (dra

5. Inspection of structural wood: a. Inspect field gluing operations

b. Inspect nailing, bolting, ancho within the seismic force resisting systems, drag struts, braces, sh

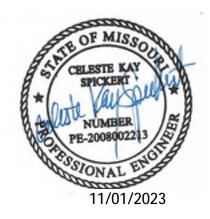
6. Inspection of storage racks:
a. Inspect anchorage of storage
7. Inspection of architectural comp
a. Inspect erection and fastening
b. Inspect erection and fastening

c. Inspect erection and fastening
d. Inspect anchorage of access
9. Inspection of designated seismic

a. Verify label, anchorage, or mo compliance.

10. Inspection of seismic isolation s a. Inspect the fabrication and ins dissipation devices that are part of t PRINTS ISSUED 11/01/23 - CITY SUBMITTAL

REVISIONS:





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TOWNEPL

SHEET TITLE

SHEET NUMBER:

SPECIAL INSPECTIONS

PROJECT NUMBER: 2023000333

Special Inspection Schedule: Wind Res	istance		
Verification And	Applicable To	Freque	ency
Inspection Task	This Project?	Continuous	Periodic
ing connections.	Х	-	-
d floor diaphragms and framing.	Х	-	Х
ystems including collectors, drag struts, and	Х	-	Х
systems including braced frames, moment	Х	-	Х
connections to the foundation.	Х	-	Х
of systems or components required to meet	-	-	Х
d:		1	
ations of elements of the main wind force resisting	Х	X	-
nchoring, and other fastening of components sting system including wood shear walls, wood es, and hold downs.	х	-	x
eel light frame construction:			
erations of elements of the main wind force	-	-	-
hment, bolting, anchoring, and other fastening of nain wind force resisting system including shear lectors (drag struts), and hold downs.	-	-	-
components:			
	Х	-	-
	Х	-	-

erification And	Applicable To	Freque	ency
nspection Task	This Project?	Continuous	Periodic
			1
cement.	Х	-	Х
te.	Х	-	Х
ement:			
ts comply with ACI 318 Chapter 21	Х	-	X
y with ASTM A615 is to be welded, chemical nine weldability.	Х	-	X
dance with the quality assurance plan	X	-	X
framing:			
of elements of the seismic force resisting	Х	-	X
olting, anchoring, and other fastening of ce resisting system including shear walls, rag struts), and hold downs.	Х	-	x
ns of elements of the seismic force resisting	X	x	
noring, and other fastening of components system including wood shear walls, wood shear panels, and hold downs.	x	-	x
e racks 8 feet or greater in height.	-	-	X
ponents:		1	1
ng of exterior cladding.	Х	-	Х
ng of interior and exterior nonbearing walls.	X	-	X
ng of interior and exterior veneer.	Х	-	X
s floors.	-	-	X
ic systems:		1	1
nounting conforms to the certificate of	-	-	X
systems:			
nstallation of isolator units and energy f the seismic isolation system.	-	-	Х

		WALL SCHEDULE		
Mark	Level 1	Level 2	Level 3	Level 4
WA	(2) 2x4**	(2) 2x4	(1) 2x4	(1) 2x4
WB	(2) 2x6	(1) 2x6	(1) 2x6	(1) 2x6
WC	(1) 2x6	(1) 2x6	(1) 2x6	(1) 2x6
WD	(2) 2x6*	(2) 2x4*	(1) 2x4	(1) 2x4

								OPENING SCH	IEDULE							
	Max Cran			Header							Kings	& Jacks				Sills*
Mark	Max. Span (ft-in)		Level 2	Level 3		Header (All Levels)	Header Plates*	Lev	vel 1	Lev	rel 2	Lev	vel 3	Lev	el 4	All Levels
Wark	(11-11)	Level 1	Level 2	Level 3	Level 4	Header (All Levels)	All Levels	Kings	Jacks	Kings	Jacks	Kings	Jacks	Kings	Jacks	(if applicable)
H1	3'-3"	(2) 2x8	(2) 2x8	(2) 2x8	(2) 2x8	(2) 2x8	(1) 2x6 T&B	(2) 2x6	(1) 2x6	(1) 2x6	(1) 2x6	(1) 2x6	(1) 2x6	(1) 2x6	(1) 2x6	(1) 2x6
H2	6'-3"	(3) 2x10	(3) 2x10	(3) 2x10	(3) 2x8		(1) 2x6 T&B	(4) 2x6	(1) 2x6	(2) 2x6	(1) 2x6	(2) 2x6	(1) 2x6	(2) 2x6	(1) 2x6	(1) 2x6
H3	6'-3"	(3) 2x8	(2) 2x8	(2) 2x8	(2) 2x8		(1) 2x6 T&B	(4) 2x6	(1) 2x6	(2) 2x6	(1) 2x6	(2) 2x6	(1) 2x6	(2) 2x6	(1) 2x6	(1) 2x6
H4	6'-4"	(3) 2x10	(3) 2x8	(3) 2x8	(2) 2x8		(1) 2x6 T&B	(2) 2x6	(1) 2x6	(1) 2x6	(1) 2x6	(1) 2x6	(1) 2x6	(1) 2x6	(1) 2x6	(1) 2x6
H5	3'-3"	(2) 2x8	(2) 2x8	(2) 2x8	(2) 2x8		(1) 2x4 T&B	(2) 2x6	(1) 2x6	(3) 2x4	(1) 2x4	(2) 2x4	(1) 2x4	(1) 2x4	(1) 2x4	(1) 2x4
H = An c	pening which	n requires a hea	der					Notes:								

Notes: 1. All walls are 16" o.c. U.N.O. on plans

2. Bottom sill plates at foundation to be fastened w/ 5/8"Ø x 5-1/2" Hilti Kwik TZ Bolts @ 48" o.c. U.N.O.

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

4. Sill and top plates at all other levels to e fastened w/ (2) 16d nails @ 16" o.c. U.N.O. 5. Shear walls shall be sheathed per shear wall schedule

6. Non-load bearing walls not shown, refer to architectural drawings.

7. All top plates are to be continuous. Splice per 4/S500

8. * Indicates studs or stud pack at 12" o.c.

9. ** Indicates studs or stud pack at 8" o.c.

	BEAM SCHEDULE							
Mark	Max. Span (ft-in)	Beam Size	Hanger					
B1	7'-3"	(3) 2x10	HHUS210-3					
B2	9'-0"	(3) 2x8	HGUS26-3					
B3	7'-3"	(3) 2x12	HHUS210-3					
B4	15'-3"	(2) 1 3/4"x12 1/2" LVL	HUCQ210-2-SDS*					
B5	5'-3"	(2) 2x10	DGHT3.62/9.25					

Notes:

1. All exterior beams are to be pressure treated.

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

3. * Indicates that weld to steel plate is required for beam support (See 10/S511)

			HEAVY OF	PENING SCHEDULE		
Opening Mark	Max Cran	Header		Kings & Jacks		
	Max. Span (ft-in)		Header Plates*	vel 1		
	(11-11)		All Levels	Kings	Jacks	
HH1	3'-4"	(3) 2x8	(1) 2x6 T&B	(2) 2x6	(2) 2x6	
HH2	3'-4"	(3) 2x10	(1) 2x6 T&B	(2) 2x6	(2) 2x6	
HH3	6'-4"	(3) LVL 1-3/4" x 9-1/4"	(1) 2x6 T&B	(3) 2x6	(2) 2x6	
HH4	8'-6"	(3) LVL 1-3/4" x 9-1/4"	(1) 2x6 T&B	(4) 2x6	(2) 2x6	
HH5	10'-6"	(3) LVL 1-3/4" x 11-7/8"	(2) 2x6 T&B	(6) 2X6	(2) 2X6	
HH6	8'-0"	(3) LVL 1-3/4" x 14"	(1) 2x6 T&B	(4) 2X6	(3) 2X6	
HH7	11'-0"	5-1/2" x 20" Glulam	(2) 2x6 T&B	(4) 2X6	(5) 2X6	
	ononing which	a roquiros a boadar without stack	ing haadara ahaya	Notes:		

HH = An opening which requires a header without stacking headers above

Notes 1. See S500 for typical opening framing.

2. All openings should stack according to the plans.

3. Coordinate all dimensions and elevations with architectural drawings.

4. Cripple studs should match the adjacent wall framing.

5. * Header top and bottom plates and sills should match the adjacent wall studs.

6. ** Indicates headers that do not require top and bottom plates.

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

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

1. See S500 for typical opening framing.

2. All openings should stack according to the plans.

3. Coordinate all dimensions and elevations with architectural drawings.

4. Cripple studs should match the adjacent wall framing.

5. * Header top and bottom plates and sills should match the adjacent wall studs. 6. ** Indicates headers that do not require top and bottom plates.

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

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

	(COLUMN SCHEDUL	E			
Mark	Level 1	Level 2	Level 3	Level 4	Туре	Membrane/Sh
C1	(3) 2x6	(3) 2x6	(3) 2x6	(3) 2x6	Slab on Grade	10mil Vapor F
C2	6X6				Interior Floors	3/4" Plyw
Notes:				·	Canopy	3/4" Plyw
1 All astanian asky	mna ara ta ha praza	ure treated LINIO			Deleen /	Der Diene/Cer

1. All exterior columns are to be pressure treated UNO

2. Exterior columns supporting canopy to be Western Cedar or Redwood Grade 1 or better

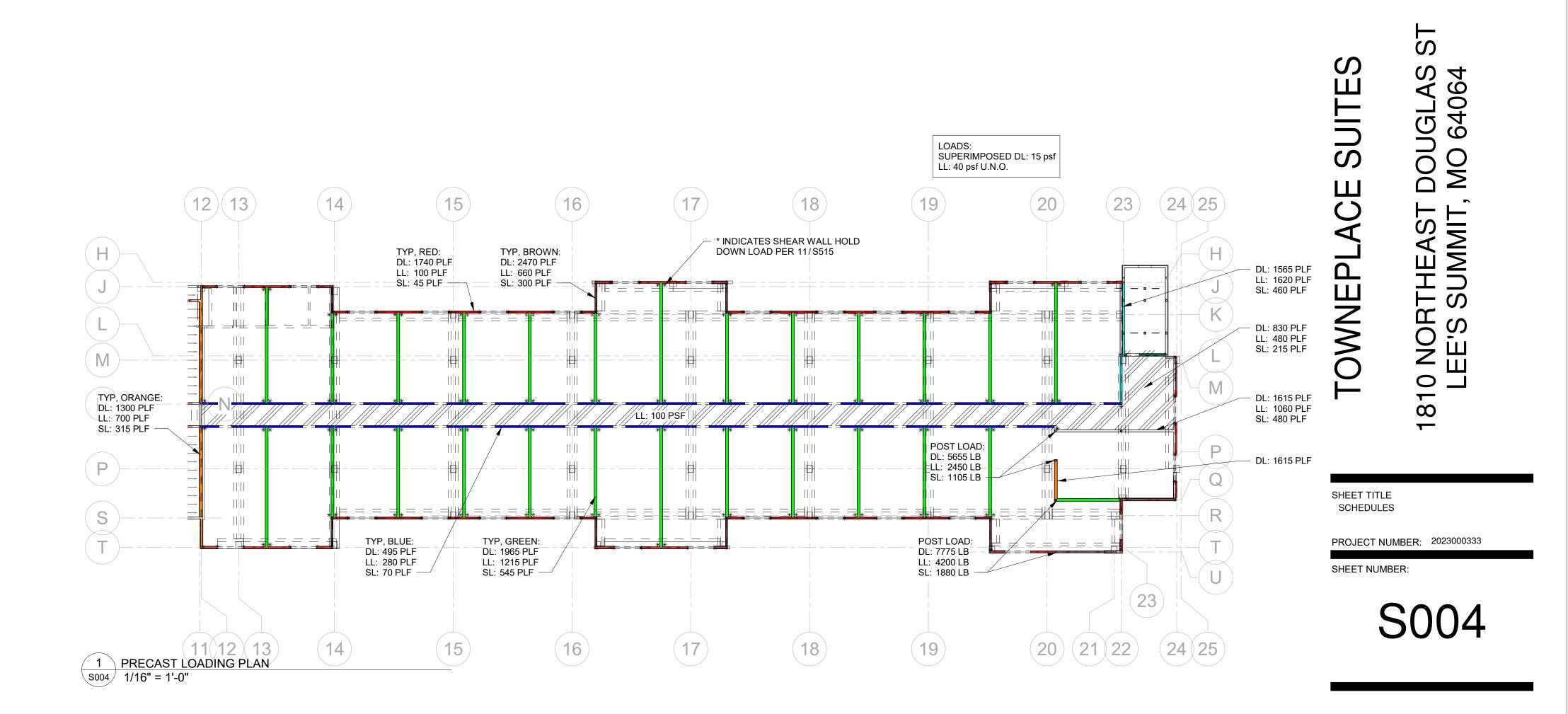
Туре	Membrane			
Slab on Grade	10mil Vap			
Interior Floors	3/4" F			
Canopy	3/4" P			
Balcony	Per Plans/			
Roof	15/32"			
lotes:				
N/ I · ·				

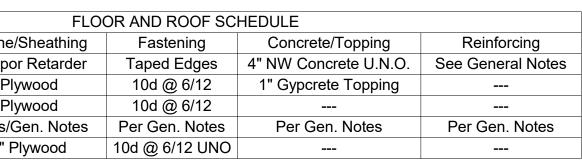
1. Vapor barrier to be placed over compacted fill per general notes.

2. Plywood sheathing to be fastened per detail 2/S500 3.* Concrete on balconies shall slope away from building per Arch.

4. Plywood to be Structural Grade 1 Material

6. Floor diaphragm assumed unblocked unless noted otherwise on plan.





5. See architectural drawings for full floor and roof assemblies including nonstructural elements.



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Mark	Level	Sheathing/ Fastener Layout	Post	LL SCHEDULE Hold-Down	Min. Sill/Top Plate	Base Connection		Level 4	(1) Sided, Wood Structural Panels - S1 - 15/32" Thick, 10d Nail, 6" Edge fastening Unblocked	(2) 2x6	MSTA 49 w/ (26) 0.148X2-1/2" nails	(1) 2x6	(2) 10d Nails @ 4" o.c.
	Level 4	(1) Sided, Wood Structural Panels - S1 - 15/32" Thick, 10d Nail, 6" Edge fastening Unblocked	(2) 2x6	MST37 w/ (22) 0.162x2-1/2" nails	(1) 2x6	(2) 10d Nails @ 12" o.c.	SW8	Level 3	(1) Sided, Wood Structural Panels - S1 - 15/32" Thick, 10d Nail, 6" Edge fastening	(2) 2x6	MST48 w/ (34) 0.162x2-1/2" nails	(1) 2x6	(2) 10d Nails @ 3" o.c.
-	l evel 3	(1) Sided, Wood Structural Panels - S1 - 15/32" Thick, 10d Nail, 6" Edge	(2) 2X6	MST37 w/ (22)	(1) 2x6	(2) 10d Nails @ 8" o.c.		Level 2	(1) Sided, Wood Structural Panels - S1 - 15/32" Thick, 10d Nail, 4" Edge fastening	(2) 2x6	MST48 w/ (34) 0.162x2-1/2" nails	(1) 2x6	(2) 10d Nails @ 2" o.c.
SW1		(1) Sided, Wood Structural Panels - S1 - 15/32" Thick, 10d Nail, 6" Edge	(2) 2X6	0.162x2-1/2" nails MST48 w/ (34)	(1) 2x6	(2) 10d Nails @ 6" o.c.		Level 1	(1) Sided, Wood Structural Panels - S1 - 15/32" Thick, 10d Nail, 4" Edge fastening	(2) 2x6	HTT5-3/4 w/ (26) 0.148"Øx1-1/2" & 3/4"Ø Anchor Rod	(1) 2x6	5/8"Ø Hilti Kwik Bolt TZ2 w/ 1/4" Embedment @ 48" o.c
-	Level 1	fastening (1) Sided, Wood Structural Panels - S1 - 15/32" Thick, 10d Nail, 4" Edge fastening	(4) 2x6	0.162x2-1/2" nails HD7B w/ (3) 3/4"Ø Bolts & 7/8"Ø Anchor Rod	(1) 2x6	5/8"Ø Hilti Kwik Bolt TZ2 w/ 3 1/4" Embedment @ 48" o.c.		Level 4	(1) Sided, Wood Structural Panels - S1 - 15/32" Thick, 10d Nail, 6" Edge fastening Unblocked	(2) 2x6	MSTA 49 w/ (26) 0.148X2-1/2" nails	(1) 2x6	(2) 10d Nails @ 16" o.c.
	Level 4	(1) Sided, Wood Structural Panels - S1 - 15/32" Thick, 8d Nail, 6" Edge fastening Unblocked	(2) 2x6	MST37 w/ (22) 0.162x2-1/2" nails	(1) 2x6	(2) 10d Nails @ 12" o.c.	SW10	Level 3	(1) Sided, Wood Structural Panels - S1 - 15/32" Thick, 10d Nail, 6" Edge fastening Unblocked	(2) 2x6	MSTA 49 w/ (26) 0.148X2-1/2" nails	(1) 2x6	(2) 10d Nails @ 12" o.c.
SW2	Level 3	(1) Sided, Wood Structural Panels - S1 - 15/32" Thick, 8d Nail, 6" Edge fastening	(2) 2X6	MST37 w/ (22) 0.162x2-1/2" nails	(1) 2x6	(2) 10d Nails @ 8" o.c.		Level 2	(1) Sided, Wood Structural Panels - S1 - 15/32" Thick, 10d Nail, 6" Edge fastening	(2) 2x6	MSTA 49 w/ (26) 0.148X2-1/2" nails	(1) 2x6	(2) 10d Nails @ 8" o.c.
5002	Level 2	(1) Sided, Wood Structural Panels - S1 - 15/32" Thick, 10d Nail, 6" Edge fastening	(2) 2X6	MST48 w/ (34) 0.162x2-1/2" nails	(1) 2x6	(2) 10d Nails @ 6" o.c.		Level 1	(1) Sided, Wood Structural Panels - S1 - 15/32" Thick, 10d Nail, 6" Edge fastening	(2) 2x6	HTT5-3/4 w/ (26) 0.148"Øx1-1/2" & 3/4"Ø Anchor Rod	(1) 2x6	5/8"Ø Hilti Kwik Bolt TZ2 w/ 1/4" Embedment @ 48" o.c
_	Level 1	(1) Sided, Wood Structural Panels - S1 - 15/32" Thick, 10d Nail, 4" Edge fastening	(4) 2x6	HD7B w/ (3) 3/4"Ø Bolts & 7/8"Ø Anchor Rod	(1) 2x6	5/8"Ø Hilti Kwik Bolt TZ2 w/ 3 1/4" Embedment @ 48" o.c.		Level 4	(1) Sided, Wood Structural Panels - S1 - 15/32" Thick, 10d Nail, 6" Edge fastening Unblocked	(2) 2x6	MSTA 49 w/ (26) 0.148X2-1/2" nails	(1) 2x6	(2) 10d Nails @ 12" o.c.
	Level 4	(1) Sided, Wood Structural Panels - S1 - 15/32" Thick, 10d Nail, 4" Edge fastening	(2) 2x6	MST72 w/ (62) 0.162x2-1/2" nails	(1) 2x6	(2) 10d Nails @ 4" o.c.	014/44	Level 3	(1) Sided, Wood Structural Panels - S1 - 15/32" Thick, 10d Nail, 6" Edge fastening	(2) 2x6	MST37 w/ (22) 0.162x2-1/2" nails	(1) 2x6	(2) 10d Nails @ 8" o.c.
SW3	Level 3	(1) Sided, Wood Structural Panels - S1 - 15/32" Thick, 10d Nail, 2" Edge fastening	(3) 2x6	(2) MST60 w/ (46) 0.162x2-1/2" nails	(1) 2x6	(2) 10d Nails @ 3" o.c.	SW11	Level 2	(1) Sided, Wood Structural Panels - S1 - 15/32" Thick, 10d Nail, 6" Edge fastening	(2) 2x6	MST48 w/ (34) 0.162x2-1/2" nails	(1) 2x6	(2) 10d Nails @ 6" o.c.
	Level 2	 (2) Sided, Wood Structural Panels - S1 - 15/32" Thick, 10d Nail, 4" Edge fastening (2) Sided, Wood Structural Panels - 	(3) 2x6	(2) MST72 w/ (62) 0.162x2-1/2" nails	(1) 2x6	(2) 10d Nails @ 2" o.c.		Level 1	(1) Sided, Wood Structural Panels - S1 - 15/32" Thick, 10d Nail, 4" Edge fastening	(3) 2x6	HD7B w/ (3) 3/4"Ø Bolts & 7/8"Ø Anchor Rod	(1) 2x6	5/8"Ø Hilti Kwik Bolt TZ2 w/ 1/4" Embedment @ 48" o.c
		Š1 - 15/32" Thick, 10d Nail, 3" Edge fastening (1) Sided, Wood Structural Panels -	(6) 2x6	(2) HD12 w/ (4) 1"Ø Bolts & 1"Ø Anchor Rod MST48 w/ (34)	(1) 2x6	5/8"Ø Hilti Kwik Bolt TZ2 w/ 3 1/4" Embedment @ 24" o.c.		Level 4	(1) Sided, Wood Structural Panels - S1 - 15/32" Thick, 10d Nail, 6" Edge fastening Unblocked	(2) 2x6	MSTA 49 w/ (26) 0.148X2-1/2" nails	(1) 2x6	(2) 10d Nails @ 16" o.c.
		S1 - 15/32" Thick, 10d Nail, 6" Edge fastening (1) Sided, Wood Structural Panels - S1 - 15/32" Thick, 10d Nail, 4" Edge	(3) 2x4	0.162x2-1/2" nails	(1) 2x4 (1) 2x4	(2) 10d Nails @ 8" o.c.		Level 3	(1) Sided, Wood Structural Panels - S1 - 15/32" Thick, 10d Nail, 6" Edge	(2) 2x6	MSTA 49 w/ (26) 0.148X2-1/2" nails	(1) 2x6	(2) 10d Nails @ 12" o.c.
SW4		(1) Sided, Wood Structural Panels - S1 - 15/32" Thick, 10d Nail, 3" Edge	(3) 2x4 (4) 2x4	0.162x2-1/2" nails MST60 w/ (46)	(1) 2x4 (1) 2x4	(2) 10d Nails @ 6" o.c. (2) 10d Nails @ 4" o.c.	SW12	Level 2	fastening Unblocked (1) Sided, Wood Structural Panels - S1 - 15/32" Thick, 10d Nail, 6" Edge	(2) 2x6	MSTA 49 w/ (26)	(1) 2x6	(2) 10d Nails @ 8" o.c.
		fastening (1) Sided, Wood Structural Panels -	3) 3 1/2x3 1/2	0.162x2-1/2" nails HD12 w/ (4) 1"Ø Bolts &	(.)	5/8"Ø Hilti Kwik Bolt TZ2 w/ 3		Level 1	fastening (1) Sided, Wood Structural Panels - S1 - 15/32" Thick, 10d Nail, 6" Edge	(2) 2x6	0.148X2-1/2" nails HTT5-3/4 w/ (26) 0.148"Øx1-1/2" & 3/4"Ø	(1) 2x6	5/8"Ø Hilti Kwik Bolt TZ2 w/ 1/4" Embedment @ 48" o.c
	Level 1	Š1 - 15/32" Thick, 10d Nail, 2" Edge fastening	/ersa-LAM 1.8E2650		(1) 2x4	1/4" Embedment @ 36" o.c.		Level 4	fastening (1) Sided, Wood Structural Panels - S1 - 15/32" Thick, 10d Nail, 6" Edge	(2) 2x6	Anchor Rod MST48 w/ (34) 0.162x2-1/2" nails	(1) 2x6	(2) 10d Nails @ 8" o.c.
-	Level 4	(1) Sided, Wood Structural Panels - S1 - 15/32" Thick, 10d Nail, 4" Edge fastening	(2) 2x6	(2) MST48 w/ (34) 0.162x2-1/2" nails	(1) 2x6	(2) 10d Nails @ 4" o.c.	SW13	Level 3	fastening (1) Sided, Wood Structural Panels - S1 - 15/32" Thick, 10d Nail, 4" Edge fastening	(2) 2x6	MST60 w/ (46) 0.162x2-1/2" nails	(1) 2x6	(2) 10d Nails @ 6" o.c.
SW5	Level 3	 (1) Sided, Wood Structural Panels - S1 - 15/32" Thick, 10d Nail, 2" Edge fastening (2) Sided, Wood Structural Panels - 	(2) 2x6	(2) MST60 w/ (46) 0.162x2-1/2" nails	(1) 2x6	(2) 10d Nails @ 3" o.c.		Level 2	(1) Sided, Wood Structural Panels - S1 - 15/32" Thick, 10d Nail, 3" Edge fastening	(2) 2x6	MST72 w/ (62) 0.162x2-1/2" nails	(1) 2x6	(2) 10d Nails @ 4" o.c.
_	Level 2	(2) Sided, Wood Structural Parlets - S1 - 15/32" Thick, 10d Nail, 4" Edge fastening (2) Sided, Wood Structural Panels -	(2) 2x6	(2) MST60 w/ (46) 0.162x2-1/2" nails	(1) 2x6	(2) 10d Nails @ 2" o.c.		Level 1	(1) Sided, Wood Structural Panels - S1 - 15/32" Thick, 10d Nail, 2" Edge fastening	(3) 2x6	HD12 w/ (4) 1"Ø Bolts & 1-1/8"Ø Anchor Rod	(1) 2x6	5/8"Ø Hilti Kwik Bolt TZ2 w/ 1/4" Embedment @ 36" o.c
	Level 1	S1 - 15/32" Thick, 10d Nail, 3" Edge fastening	(5) 2x6	(2) HD12 w/ (4) 1"Ø Bolts & 1-1/8"Ø Anchor Rod	(1) 2x6	5/8"Ø Hilti Kwik Bolt TZ2 w/ 3 1/4" Embedment @ 16" o.c.		Level 4	(1) Sided, Wood Structural Panels - S1 - 15/32" Thick, 10d Nail, 6" Edge fastening	(2) 2x6	MST48 w/ (34) 0.162x2-1/2" nails	(1) 2x6	(2) 10d Nails @ 8" o.c.
_	Level 4	(1) Sided, Wood Structural Panels - S1 - 15/32" Thick, 10d Nail, 6" Edge fastening Unblocked	(2) 2x6	MSTA 49 w/ (26) 0.148X2-1/2" nails	(1) 2x6	(2) 10d Nails @ 16" o.c.	SW14	Level 3	(1) Sided, Wood Structural Panels - S1 - 15/32" Thick, 10d Nail, 4" Edge fastening	(2) 2x6	MST60 w/ (46) 0.162x2-1/2" nails	(1) 2x6	(2) 10d Nails @ 6" o.c.
SW6	Level 3	(1) Sided, Wood Structural Panels - S1 - 15/32" Thick, 10d Nail, 6" Edge fastening Unblocked	(2) 2x6	MST37 w/ (22) 0.162x2-1/2" nails	(1) 2x6	(2) 10d Nails @ 12" o.c.		Level 2	(1) Sided, Wood Structural Panels - S1 - 15/32" Thick, 10d Nail, 4" Edge fastening	(2) 2x6	MST60 w/ (46) 0.162x2-1/2" nails	(1) 2x6	(2) 10d Nails @ 4" o.c.
_	Level 2	(1) Sided, Wood Structural Panels - S1 - 15/32" Thick, 10d Nail, 6" Edge fastening	(2) 2x6	MST48 w/ (34) 0.162x2-1/2" nails	(1) 2x6	(2) 10d Nails @ 8" o.c.		Level 1	(1) Sided, Wood Structural Panels - S1 - 15/32" Thick, 10d Nail, 3" Edge fastening	(3) 2x6	HD9B w/ (3) 7/8"Ø Bolts & 7/8"Ø Anchor Rod	(1) 2x6	5/8"Ø Hilti Kwik Bolt TZ2 w/ 1/4" Embedment @ 48" o.c
	Level 1	(1) Sided, Wood Structural Panels - S1 - 15/32" Thick, 10d Nail, 4" Edge fastening	(2) 2x6	HD7B w/ (3) 3/4"Ø Bolts & 7/8"Ø Anchor Rod	(1) 2x6	5/8"Ø Hilti Kwik Bolt TZ2 w/ 3 1/4" Embedment @ 48" o.c.		Level 4	(1) Sided, Wood Structural Panels - S1 - 15/32" Thick, 10d Nail, 6" Edge fastening Unblocked	(2) 2x6	MST37 w/ (22) 0.162x2-1/2" nails	(1) 2x6	(2) 10d Nails @ 12" o.c.
	Level 4	(1) Sided, Wood Structural Panels - S1 - 15/32" Thick, 10d Nail, 6" Edge fastening	(2) 2x6	MST48 w/ (34) 0.162x2-1/2" nails	(1) 2x6	(2) 10d Nails @ 8" o.c.	SW15	Level 3	(1) Sided, Wood Structural Panels - S1 - 15/32" Thick, 10d Nail, 6" Edge fastening	(2) 2x6	MST48 w/ (34) 0.162x2-1/2" nails	(1) 2x6	(2) 10d Nails @ 8" o.c.
SW7	Level 3	(1) Sided, Wood Structural Panels - S1 - 15/32" Thick, 10d Nail, 4" Edge fastening	(2) 2x6	MST60 w/ (46) 0.162x2-1/2" nails	(1) 2x6	(2) 10d Nails @ 6" o.c.		Level 2	(1) Sided, Wood Structural Panels - S1 - 15/32" Thick, 10d Nail, 4" Edge fastening	(2) 2x6	MST48 w/ (34) 0.162x2-1/2" nails	(1) 2x6	(2) 10d Nails @ 6" o.c.
	Level 2	(1) Sided, Wood Structural Panels - S1 - 15/32" Thick, 10d Nail, 3" Edge fastening	(2) 2x6	MST60 w/ (46) 0.162x2-1/2" nails	(1) 2x6	(2) 10d Nails @ 4" o.c.		Level 1	(1) Sided, Wood Structural Panels - S1 - 15/32" Thick, 10d Nail, 4" Edge fastening	(2) 2x6	HD7B w/ (3) 3/4"Ø Bolts & 7/8"Ø Anchor Rod	(1) 2x6	5/8"Ø Hilti Kwik Bolt TZ2 w/ 1/4" Embedment @ 48" o.c
	Level 1	(1) Sided, Wood Structural Panels - S1 - 15/32" Thick, 10d Nail, 2" Edge fastening	(3) 2x6	HD12 w/ (4) 1"Ø Bolts & 1"Ø Anchor Rod	(1) 2x6	5/8"Ø Hilti Kwik Bolt TZ2 w/ 3 1/4" Embedment @ 36" o.c.		Level 4	(1) Sided, Wood Structural Panels - S1 - 15/32" Thick, 10d Nail, 6" Edge fastening Unblocked	(2) 2x6	MSTA 49 w/ (26) 0.148X2-1/2" nails	(1) 2x4	(2) 10d Nails @ 16" o.c.
							SW16	Level 3	(1) Sided, Wood Structural Panels - S1 - 15/32" Thick, 10d Nail, 6" Edge fastening Unblocked	(2) 2x6	MSTA 49 w/ (26) 0.148X2-1/2" nails	(1) 2x4	(2) 10d Nails @ 16" o.c.
								Level 2	(1) Sided, Wood Structural Panels - S1 - 15/32" Thick, 10d Nail, 6" Edge fastening Unblocked	(2) 2x6	MST37 w/ (22) 0.162x2-1/2" nails	(1) 2x4	(2) 10d nails @ 12" o.c.
								Level 1	(1) Sided, Wood Structural Panels - S1 - 15/32" Thick, 10d Nail, 6" Edge fastening	(2) 2x6	HTT5 w/ (26) SD #10x1-1/2" & 5/8"Ø Anchor Rod	(1) 2x6	5/8"Ø Hilti Kwik Bolt TZ2 w/ 1/4" Embedment @ 48" o.c

SW17	(1) Sided, Gypsum Wallboard - 1/ Level 4 Thick, 5d Nail, 7" Edge Fastening 16" O.C. Unblocked		(2) 2x4	(2) 2x4 MSTA 49 w/ (26) 0.148X2-1/2" nails		(1) 10d Nail @ 16" o.c.
	Level 3	(1) Sided, Gypsum Wallboard - 1/2" Thick, 5d Nail, 7" Edge Fastening, 16" O.C. Unblocked	(2) 2x4	MSTA 49 w/ (26) 0.148X2-1/2" nails	(1) 2x4	(1) 10d Nail @ 16" o.c.
	Level 2	(1) Sided, Gypsum Wallboard - 1/2" Thick, 5d Nail, 4" Edge Fastening, 16" O.C. Blocked	(2) 2x4	DTT2Z w/ (8) 1/4"Øx1-1/2" SDS screws & 1/2"Ø Anchor Rod	(1) 2x4	5/8"Ø Hilti Kwik Bolt TZ2 w/ 3 1/4" Embedment @ 48" o.c.
SW18	Level 4	4 (1) Sided, Gypsum Wallboard - 1/2" 4 Thick, 5d Nail, 7" Edge Fastening, 16" O.C. Unblocked (2)		MSTA 49 w/ (26) 0.148X2-1/2" nails	(1) 2x6	(2) 10d Nail @ 16" o.c.
	Level 3	(1) Sided, Gypsum Wallboard - 1/2" Thick, 5d Nail, 7" Edge Fastening, 16" O.C. Unblocked	(2) 2x6	MSTA 49 w/ (26) 0.148X2-1/2" nails	(1) 2x6	(2) 10d Nail @ 12" o.c.
	Level 2	(1) Sided, Gypsum Wallboard - 1/2" Thick, 5d Nail, 7" Edge Fastening, 16" O.C. Blocked	(2) 2x6	DTT1Z w/ (6) SD #9x1-1/2" & 3/8"Ø Anchor Rod	(1) 2x6	5/8"Ø Hilti Kwik Bolt TZ2 w/ 3 1/4" Embedment @ 48" o.c.
SW19	Level 4	(1) Sided, Wood Structural Panels - S1 - 15/32" Thick, 10d Nail, 6" Edge fastening Unblocked	(2) 2x6	MSTA 49 w/ (26) 0.148X2-1/2" nails	(1) 2x6	(2) 10d Nail @ 12" o.c.
	Level 3	(1) Sided, Wood Structural Panels - S1 - 15/32" Thick, 10d Nail, 6" Edge fastening Unblocked	(2) 2x6	MSTA 49 w/ (26) 0.148X2-1/2" nails	(1) 2x6	(2) 10d Nail @ 8" o.c.
	Level 2	(1) Sided, Wood Structural Panels - S1 - 15/32" Thick, 10d Nail, 6" Edge fastening Unblocked	(2) 2x6	DTT1Z w/ (6) 0.148"Øx1-1/2" & 3/8"Ø Anchor Rod	(1) 2x6	5/8"Ø Hilti Kwik Bolt TZ2 w/ 3 1/4" Embedment @ 48" o.c.

1. See S530 for typical shear wall traming

2. All hold down embedded anchors in concrete shall use Hilti HIT-HY 500 V3 Adhesive or Equivalent

3. All threaded rods shall be F1554 GR105 4. Floor to floor strap ties at top of wall shall match that of the floor above.

5. All hold downs and strap ties are Simpson Strong-Tie brand, U.N.O.

6. Bottom sill plate connections shall have a 3"x3"x1/4" steel plate washer at each anchor bolt on shear walls only.

8. Provide floor to floor strapping on the same side as the OSB sheathing. 9. See 9/S501 for shear wall to foundation hold-down detail.

10. See 11/S515 for shear wall to precast hold-down detail.

7. All drag trusses shall be connected to shear walls per detail 4/S530.



MISSOURI CERTIFICATE OF AUTHORITY

NO. E-2006023253

EXPIRES: DECEMBER 31, 2024

PRINTS ISSUED

ST , MO 64064 1810 NORTHEAST LEE'S SUMMIT,

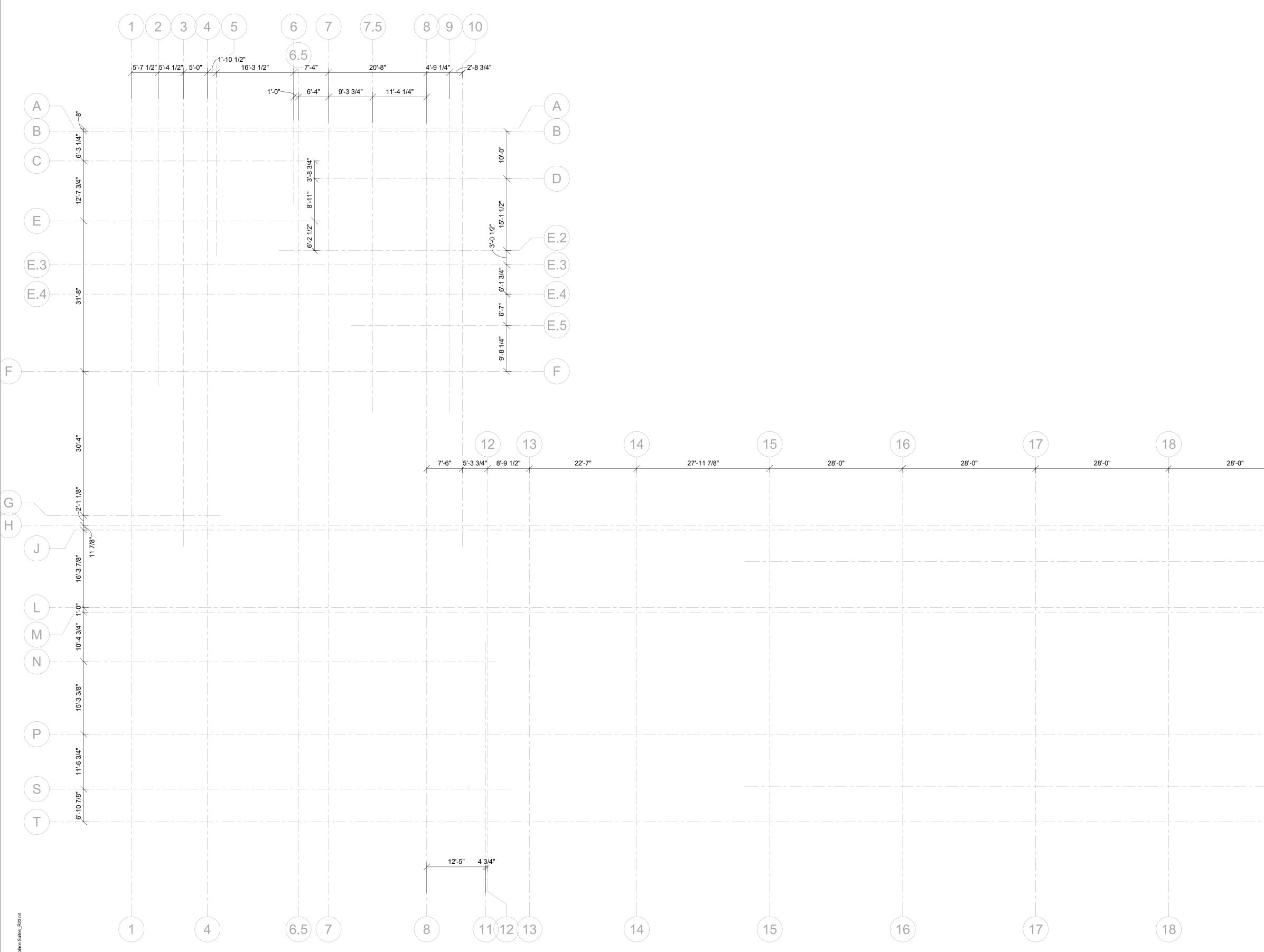
SHEET TITLE SCHEDULES

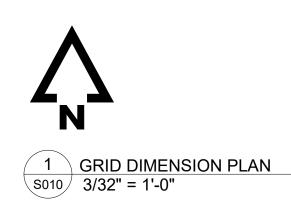
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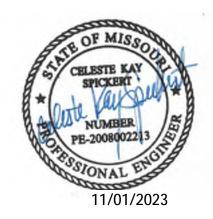
S005

ACE SUITES TOWNEPL





PRINTS ISSUED 11/01/23 - CITY SUBMITTAL **REVISIONS:**





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

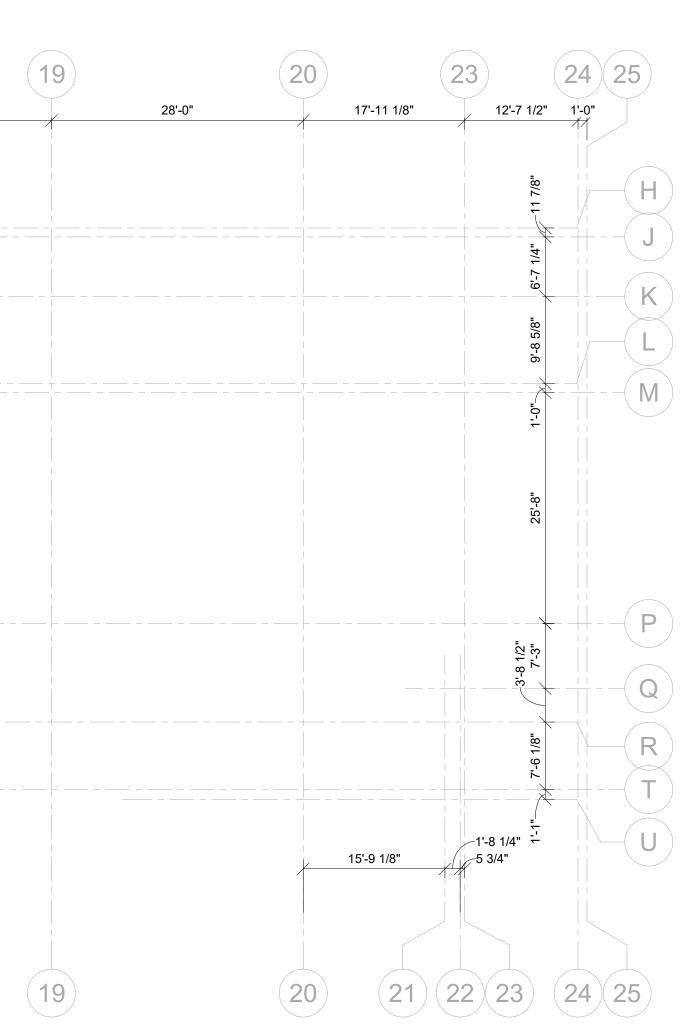
FOR PERMIT NOT FOR CONSTRUCTION

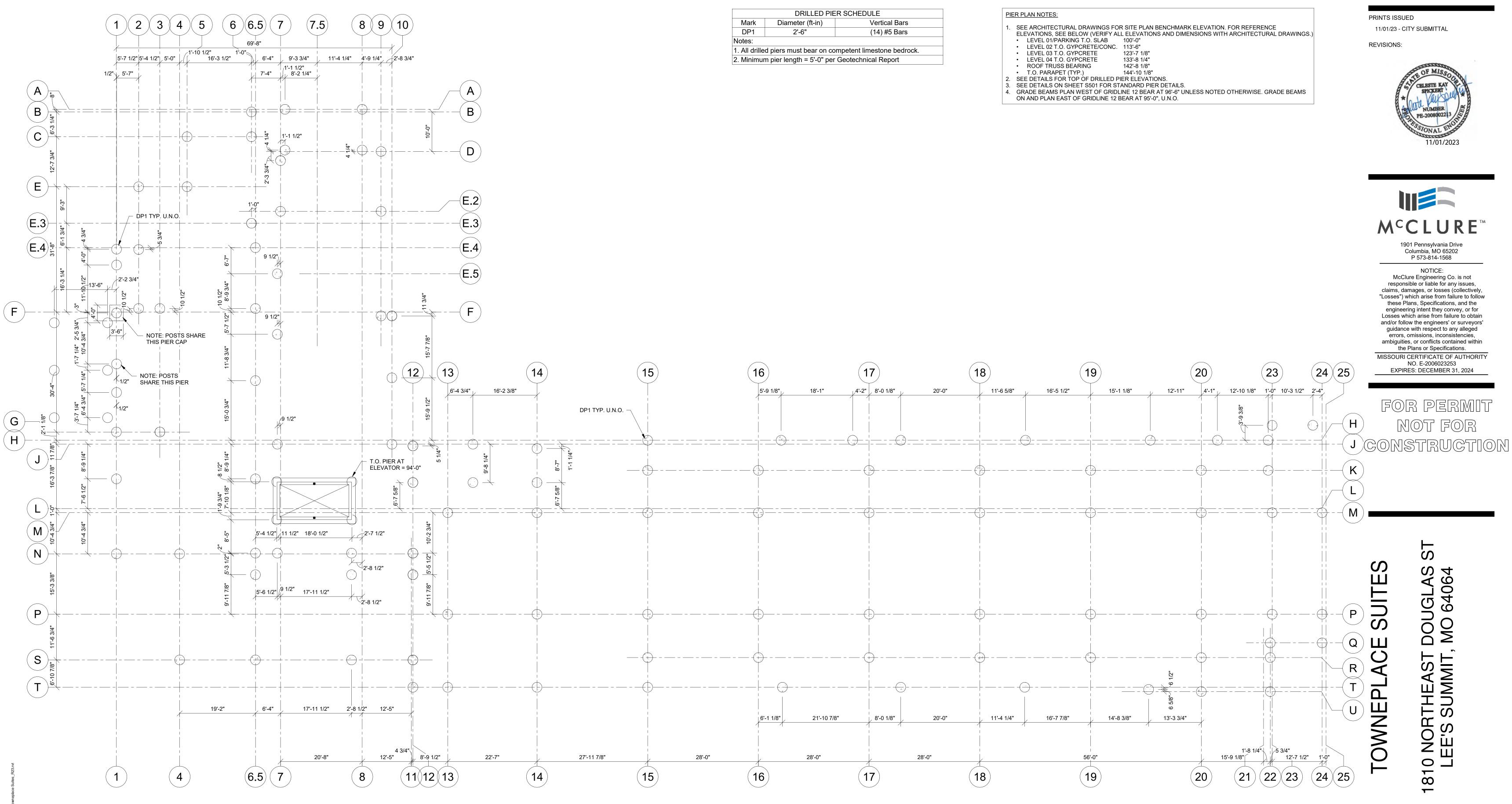
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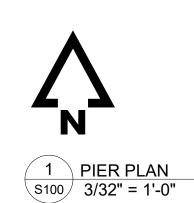
SHEET TITLE GRID DIMENSION PLAN

PROJECT NUMBER: 2023000333









DRILLED PIER SCHEDULE									
Mark	Vertical Bars								
DP1	2'-6"	(14) #5 Bars							
otes:									
All drilled piers must bear on competent limestone bedroc									

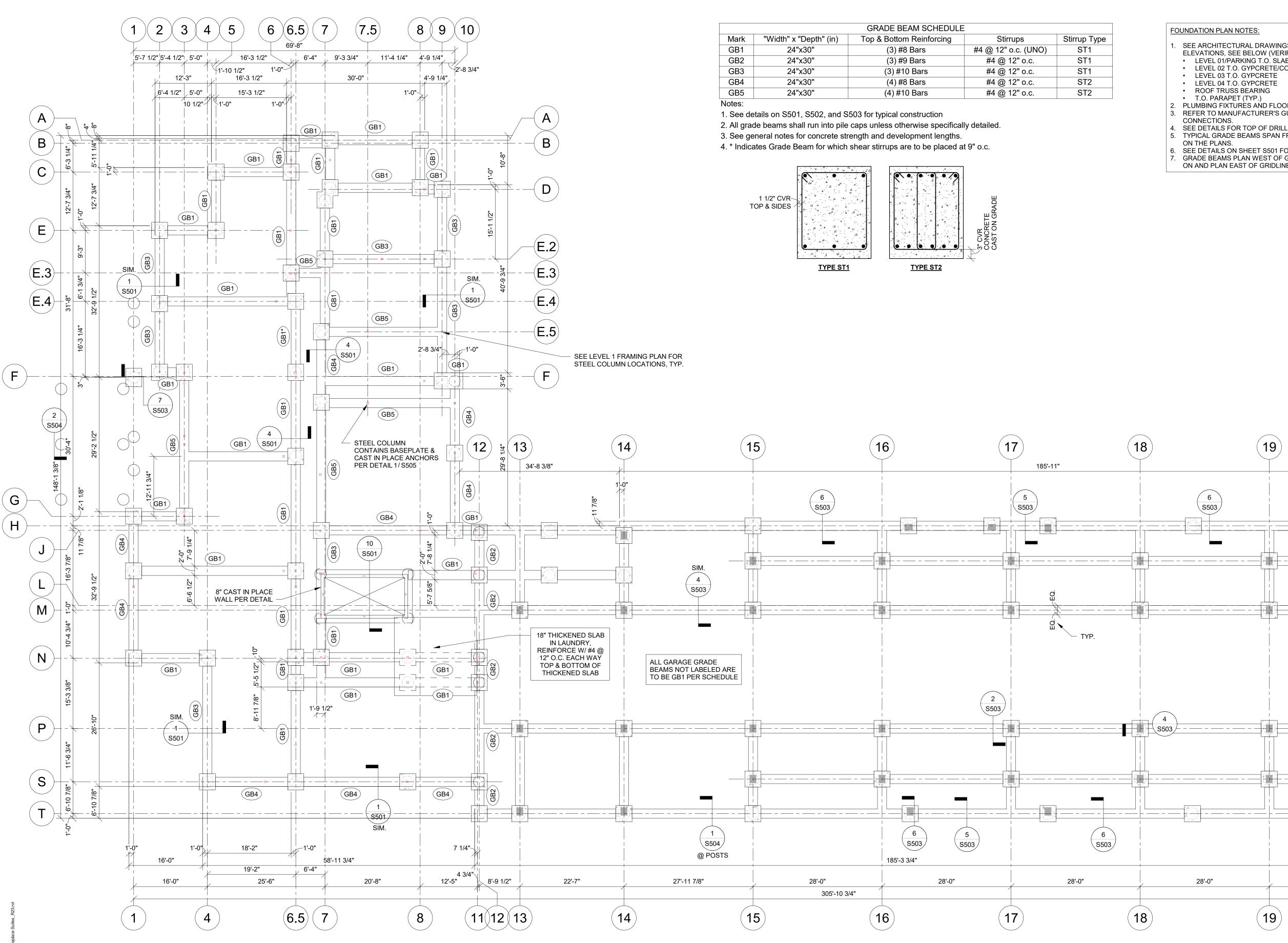
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1.	ELI • •	LEV LEV	IONS EL 0 ⁷ EL 02 EL 03
3.	• SE SE GR	LEV ROC T.O. E DE E DE ADE AND	of TF Par Tails Tails Beai

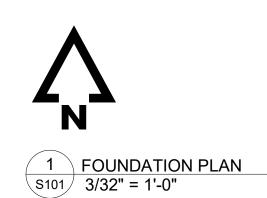
SHEET TITLE PIER PLAN

PROJECT NUMBER: 2023000333

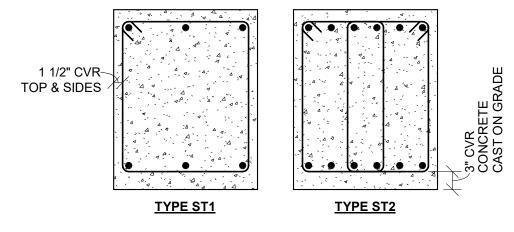
SHEET NUMBER:

S100





GRADE BEAM SCHEDULE						
Mark	"Width" x "Depth" (in)	Top & Bottom Reinforcing	Stirrups	Stirrup Type		
GB1	24"x30"	(3) #8 Bars	#4 @ 12" o.c. (UNO)	ST1		
GB2	24"x30"	(3) #9 Bars	#4 @ 12" o.c.	ST1		
GB3	24"x30"	(3) #10 Bars	#4 @ 12" o.c.	ST1		
GB4	24"x30"	(4) #8 Bars	#4 @ 12" o.c.	ST2		
GB5	24"x30"	(4) #10 Bars	#4 @ 12" o.c.	ST2		
Notes:	1			1		



19)

_____ _ _ _ _ _ _ _ _ _

AN NOTES:	PRINTS ISSUED
ECTURAL DRAWINGS FOR SITE PLAN BENCHMARK ELEVATION. FOR REFERENCE , SEE BELOW (VERIFY ALL ELEVATIONS AND DIMENSIONS WITH ARCHITECTURAL DRAWINGS.)	11/01/23 - CITY SUBMITTAL
PARKING T.O. SLAB 100'-0" T.O. GYPCRETE/CONC. 113'-6"	REVISIONS:
T.O. GYPCRETE 123'-7 1/8" T.O. GYPCRETE 133'-8 1/4"	
JSS BEARING 142'-8 1/8" PET (TYP.) 144'-10 1/8"	S OF MISSO
TURÈS AŃD FLOOR DRAINS ARE TO BE COORDINATED PER ARCH. & MEP DRAWINGS. NUFACTURER'S GUIDELINES FOR INSTALLATION OF STRAP TIES, HOLD DOWNS, & OTHER	CELESTE KAY
S. FOR TOP OF DRILLED PIER ELEVATIONS.	SPICKERT WAY
DE BEAMS SPAN FROM CENTER OF PIER TO CENTER OF PIER UNLESS NOTED SPECIFICALLY S.	A AN UN NUMBER
DN SHEET S501 FOR STANDARD GRADE BEAM AND PIER DETAILS. S PLAN WEST OF GRIDLINE 12 BEAR AT 96'-6" UNLESS NOTED OTHERWISE. GRADE BEAMS	PE-2008002213
EAST OF GRIDLINE 12 BEAR AT 95'-0", U.N.O.	SSIONAL EN
	11/01/2023
	M ^c CLURE [™]
	1901 Pennsylvania Drive
	Columbia, MO 65202 P 573-814-1568
	NOTICE:
	McClure Engineering Co. is not

(23)

12'-3 1/2" 1-0" 11'-3 1/2" 1'-4"

(20)

4

_____ _ _ _ _

5

S503

2

S503

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30'-0"

1'-8 1/4"

(21)

15'-9 1/8"

3'-6"

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OWNEI

2'-4"

SHEET TITLE FOUNDATION PLAN

PROJECT NUMBER: 2023000333

SHEET NUMBER:

S101

responsible or liable for any issues,

claims, damages, or losses (collectively,

"Losses") which arise from failure to follow

these Plans, Specifications, and the

engineering intent they convey, or for Losses which arise from failure to obtain

and/or follow the engineers' or surveyors' guidance with respect to any alleged

errors, omissions, inconsistencies,

ambiguities, or conflicts contained within

the Plans or Specifications.

MISSOURI CERTIFICATE OF AUTHORITY

NO. E-2006023253

EXPIRES: DECEMBER 31, 2024

FOR PERMIT

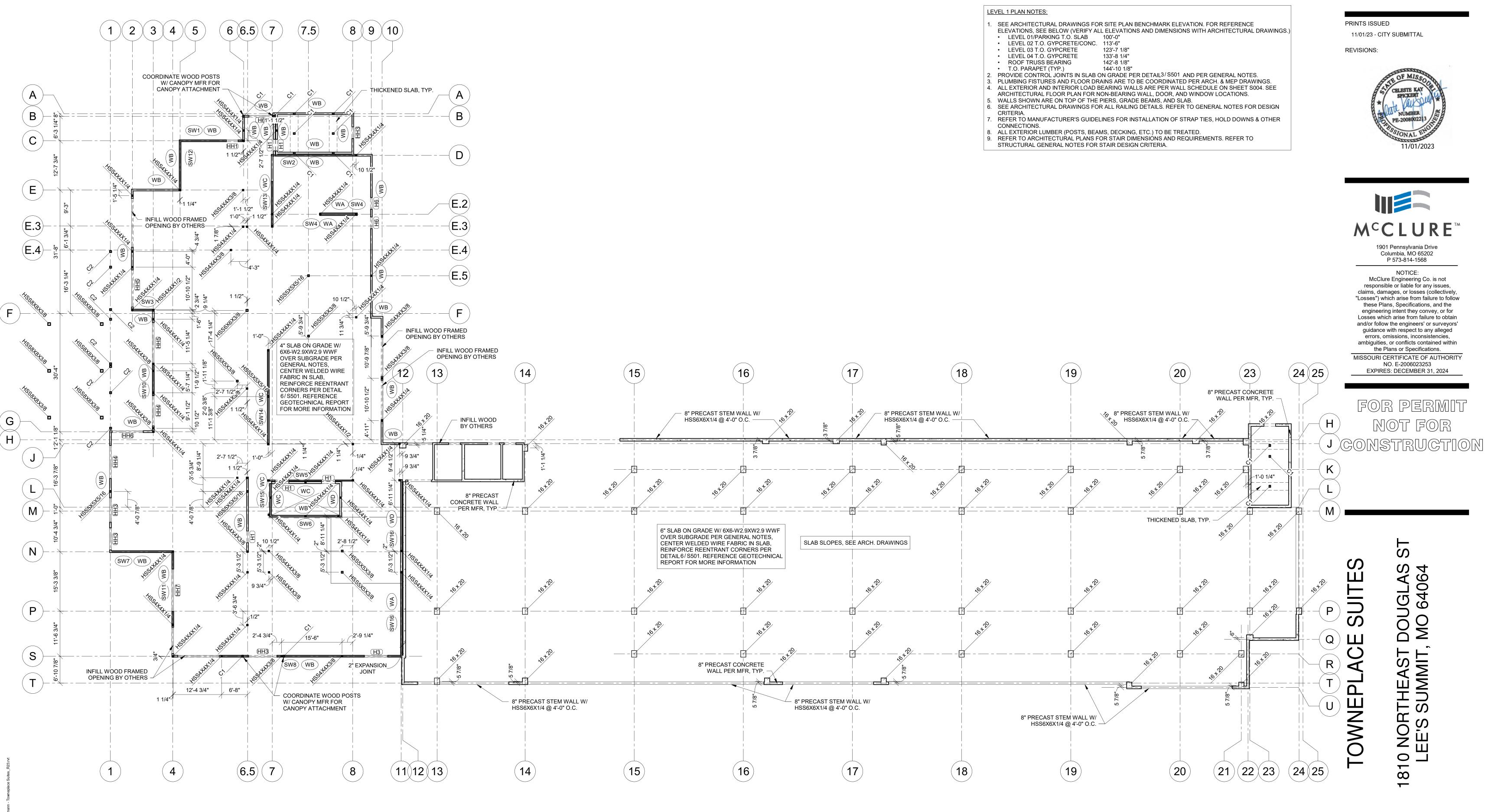
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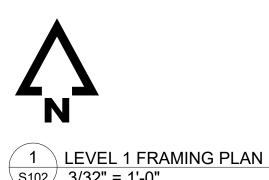
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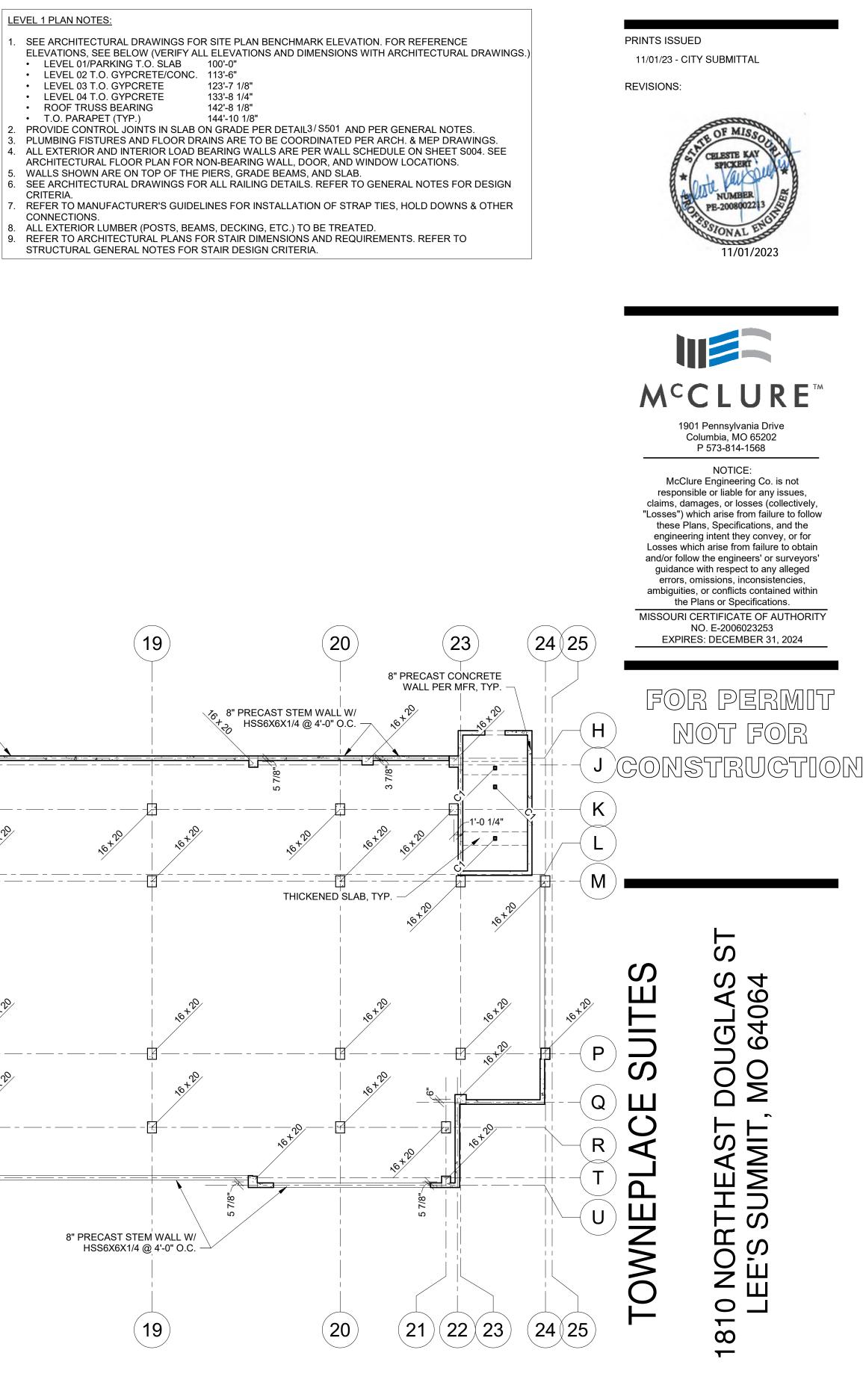
, MO 64064

1810 NORTHEAST LEE'S SUMMIT,





1 LEVEL 1 FRAMING PLAN \$102 3/32" = 1'-0"

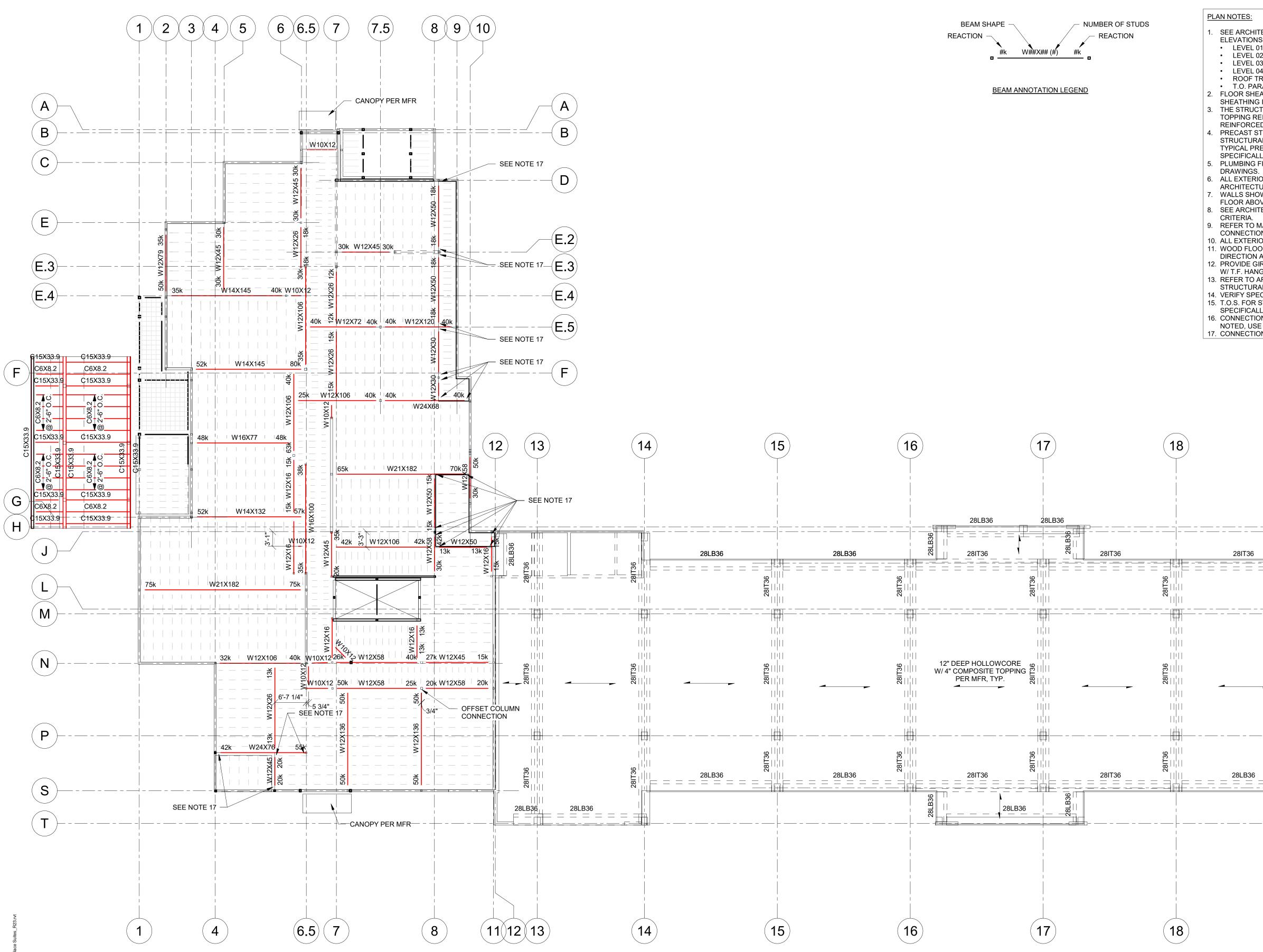


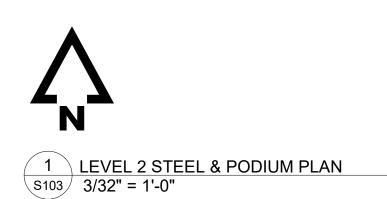
SHEET TITLE

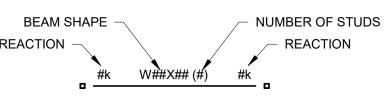
LEVEL 1 FRAMING PLAN

PROJECT NUMBER: 2023000333

SHEET NUMBER:







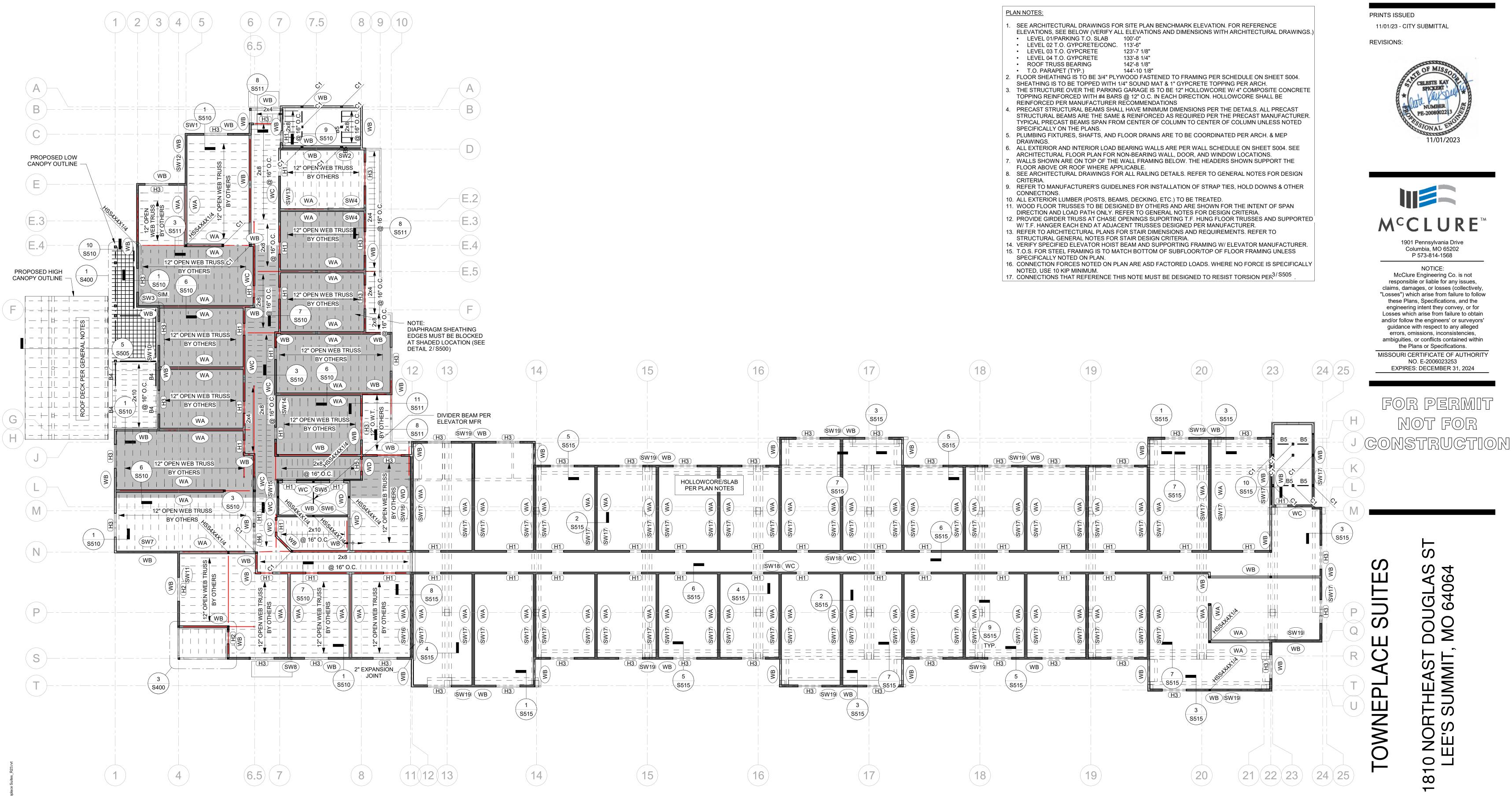
PLAN NOTES:		PRINTS ISSUED
 SEE ARCHITECTURAL DRAWINGS FOR SITE PLAN BENCH ELEVATIONS, SEE BELOW (VERIFY ALL ELEVATIONS AND LEVEL 01/PARKING T.O. SLAB 100'-0" LEVEL 02 T.O. GYPCRETE/CONC. 113'-6" LEVEL 03 T.O. GYPCRETE 123'-7 1/8" LEVEL 04 T.O. GYPCRETE 133'-8 1/4" 		11/01/23 - CITY SUBMITTAL REVISIONS:
 ROOF TRUSS BEARING 142'-8 1/8" T.O. PARAPET (TYP.) 144'-10 1/8" FLOOR SHEATHING IS TO BE 3/4" PLYWOOD FASTENED TO SHEATHING IS TO BE TOPPED WITH 1/4" SOUND MAT & 1" THE STRUCTURE OVER THE PARKING GARAGE IS TO BE 	GYPCRETE TOPPING PER ARCH.	SATE OF MISSOUR
 TOPPING REINFORCED WITH #4 BARS @ 12" O.C. IN EACH REINFORCED PER MANUFACTURER RECOMMENDATIONS PRECAST STRUCTURAL BEAMS SHALL HAVE MINIMUM DI STRUCTURAL BEAMS ARE THE SAME & REINFORCED AS 	H DIRECTION. HOLLOWCORE SHALL BE S MENSIONS PER THE DETAILS. ALL PRECAST REQUIRED PER THE PRECAST MANUFACTURER.	* NUMBER PE-2008002213
 TYPICAL PRECAST BEAMS SPAN FROM CENTER OF COLU SPECIFICALLY ON THE PLANS. 5. PLUMBING FIXTURES, SHAFTS, AND FLOOR DRAINS ARE DRAWINGS. 6. ALL EXTERIOR AND INTERIOR LOAD BEARING WALLS ARE 	TO BE COORDINATED PER ARCH. & MEP	11/01/2023
 ARCHITECTURAL FLOOR PLAN FOR NON-BEARING WALL, 7. WALLS SHOWN ARE ON TOP OF THE WALL FRAMING BEL FLOOR ABOVE OR ROOF WHERE APPLICABLE. 8. SEE ARCHITECTURAL DRAWINGS FOR ALL RAILING DETA 	DOOR, AND WINDOW LOCATIONS. OW. THE HEADERS SHOWN SUPPORT THE	
 CRITERIA. 9. REFER TO MANUFACTURER'S GUIDELINES FOR INSTALLA CONNECTIONS. 10. ALL EXTERIOR LUMBER (POSTS, BEAMS, DECKING, ETC.) 11. WOOD FLOOR TRUSSES TO BE DESIGNED BY OTHERS AND 	TO BE TREATED.	
DIRECTION AND LOAD PATH ONLY. REFER TO GENERAL N 12. PROVIDE GIRDER TRUSS AT CHASE OPENINGS SUPORTIN W/ T.F. HANGER EACH END AT ADJACENT TRUSSES DESI 13. REFER TO ARCHITECTURAL PLANS FOR STAIR DIMENSIO	NOTES FOR DESIGN CRITERIA. NG T.F. HUNG FLOOR TRUSSES AND SUPPORTED GNED PER MANUFACTURER. NS AND REQUIREMENTS. REFER TO	M ^c CLURE [™]
 STRUCTURAL GENERAL NOTES FOR STAIR DESIGN CRITE 14. VERIFY SPECIFIED ELEVATOR HOIST BEAM AND SUPPOR 15. T.O.S. FOR STEEL FRAMING IS TO MATCH BOTTOM OF SU SPECIFICALLY NOTED ON PLAN. 16. CONNECTION FORCES NOTED ON PLAN ARE ASD FACTOR 	TING FRAMING W/ ELEVATOR MANUFACTURER. IBFLOOR/TOP OF FLOOR FRAMING UNLESS	1901 Pennsylvania Drive Columbia, MO 65202 P 573-814-1568
NOTED, USE 10 KIP MINIMUM. 17. CONNECTIONS THAT REFERENCE THIS NOTE MUST BE D		NOTICE: McClure Engineering Co. is not responsible or liable for any issues, claims, damages, or losses (collectively, "Losses") which arise from failure to follow
		these Plans, Specifications, and the engineering intent they convey, or for Losses which arise from failure to obtain and/or follow the engineers' or surveyors'
		guidance with respect to any alleged errors, omissions, inconsistencies, ambiguities, or conflicts contained within the Plans or Specifications.
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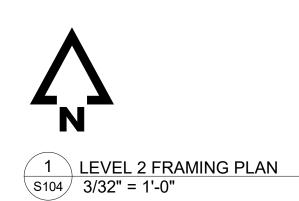
SHEET TITLE

LEVEL 2 STEEL & PODIUM PLAN

PROJECT NUMBER: 2023000333

SHEET NUMBER:





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S, SEE BELOW (VERIFY AL	_ ELEVATIONS AND DIMENSIONS WITH ARCHITECTURAL DRAWINGS.)	
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2 T.O. GYPCRETE/CONC.	113'-6"	

	110 0
3 T.O. GYPCRETE	123'-7 1/8"
4 T.O. GYPCRETE	133'-8 1/4"
RUSS BEARING	142'-8 1/8"
APET (TYP.)	144'-10 1/8"
ATHING IS TO BE 3/4" PLY	WOOD FAST

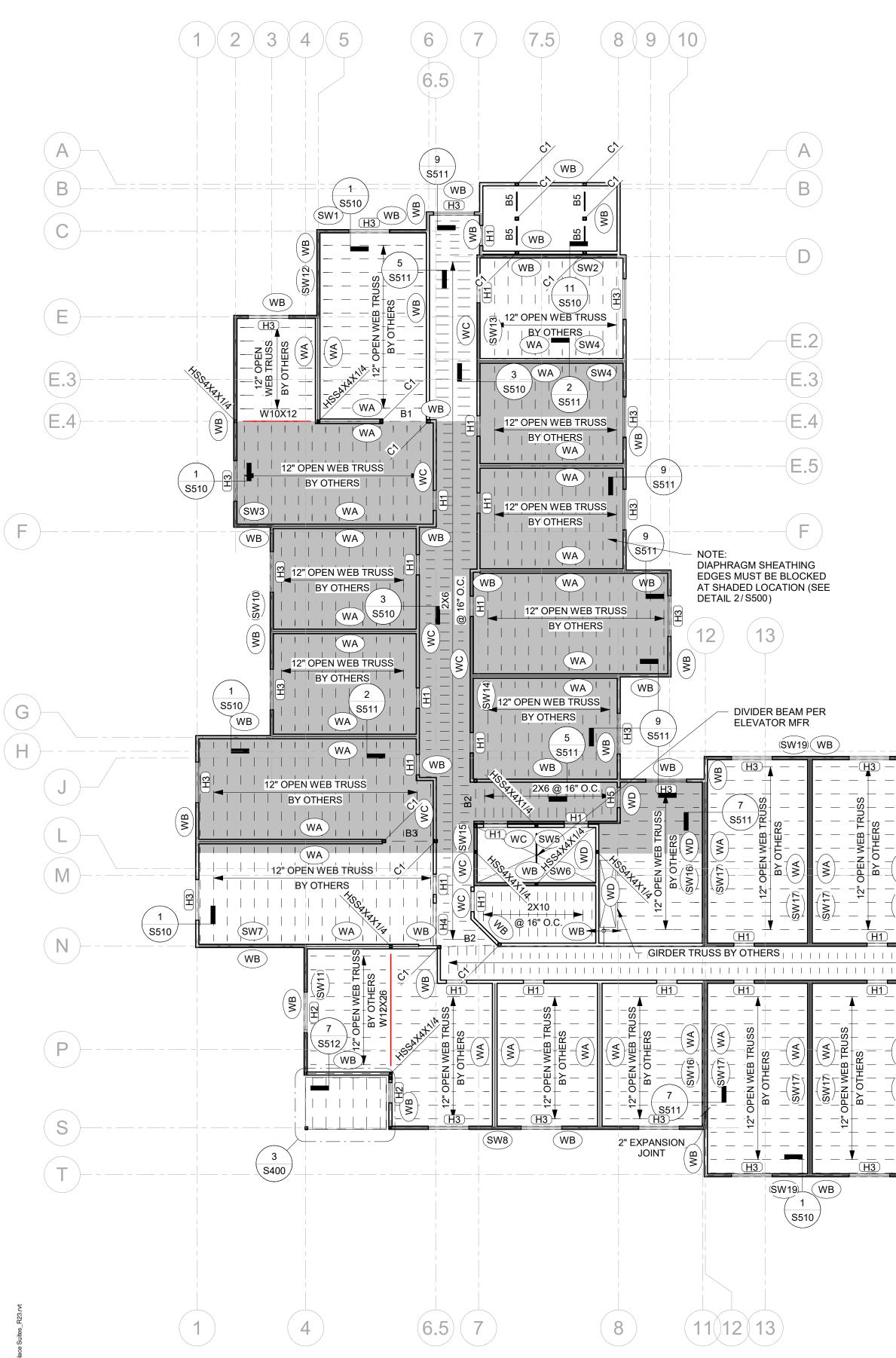


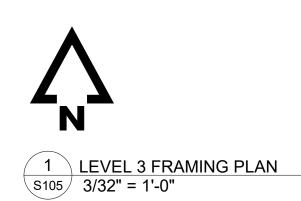


SHEET TITLE LEVEL 2 FRAMING PLAN

PROJECT NUMBER: 2023000333

SHEET NUMBER:





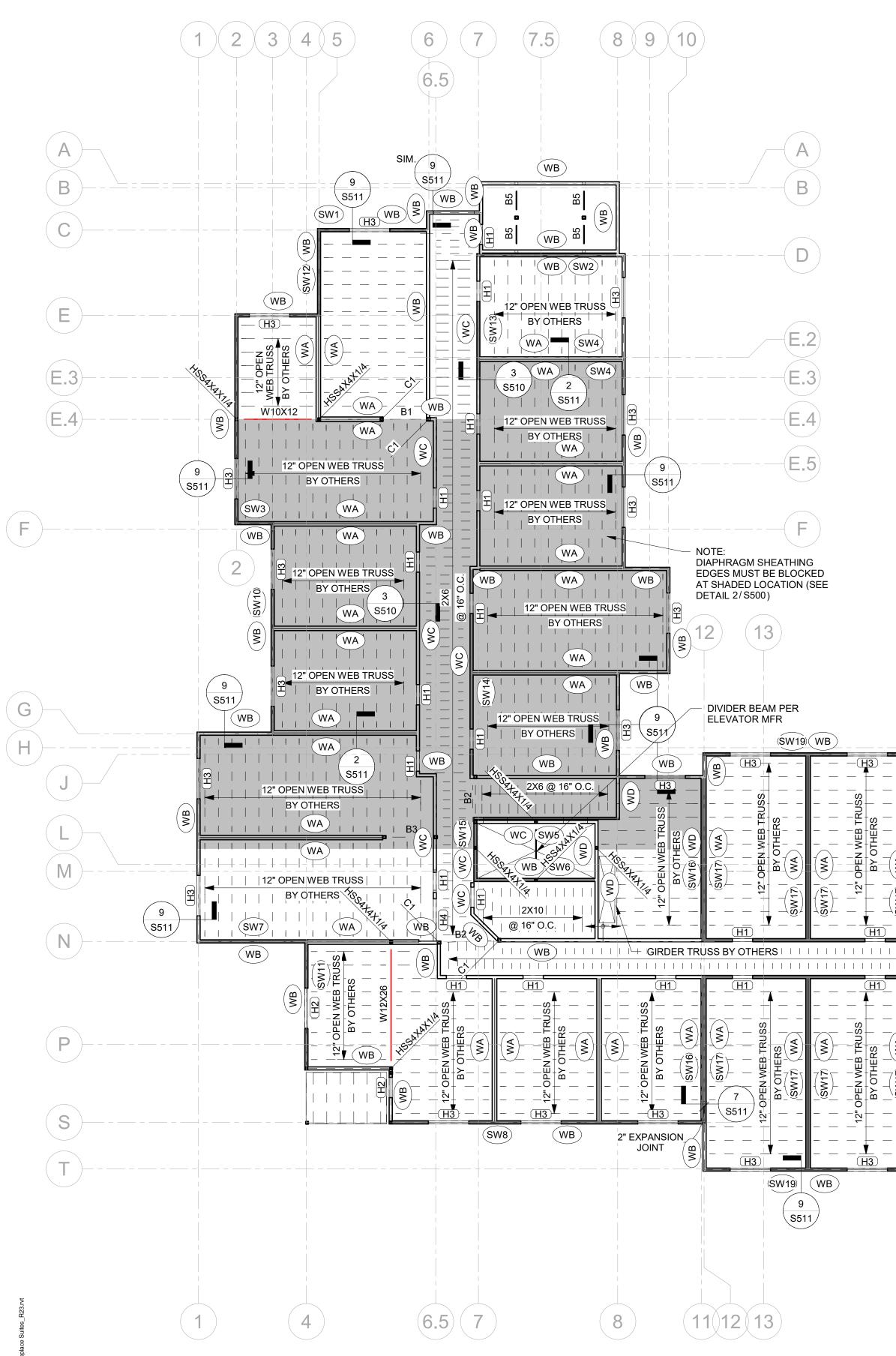
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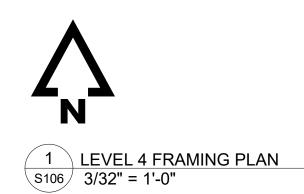
				ELEVATION LEVE LEVE ELEVE	HITECTURAL DRAWINGS FOR SITE PLAN BEND DNS, SEE BELOW (VERIFY ALL ELEVATIONS AN L 01/PARKING T.O. SLAB 100'-0" L 02 T.O. GYPCRETE/CONC. 113'-6" L 03 T.O. GYPCRETE 123'-7 1/8" L 04 T.O. GYPCRETE 133'-8 1/4" FTRUSS BEARING 142'-8 1/8" PARAPET (TYP.) 144'-10 1/8" HEATHING IS TO BE 3/4" PLYWOOD FASTENEE NG IS TO BE TOPPED WITH 1/4" SOUND MAT & G FIXTURES, SHAFTS, AND FLOOR DRAINS AF SS. ERIOR AND INTERIOR LOAD BEARING WALLS A CTURAL FLOOR PLAN FOR NON-BEARING WA HOWN ARE ON TOP OF THE WALL FRAMING B BOVE OR ROOF WHERE APPLICABLE. HITECTURAL DRAWINGS FOR ALL RAILING DE SC. O MANUFACTURER'S GUIDELINES FOR INSTAI TIONS. ERIOR LUMBER (POSTS, BEAMS, DECKING, ET OOR TRUSSES TO BE DESIGNED BY OTHERS ON AND LOAD PATH ONLY. REFER TO GENERA FLOOR TRUSS HEADER AT CHASE OPENINGS TED W/ T.F. HANGER EACH END AT ADJACENT O ARCHITECTURAL PLANS FOR STAIR DIMENS JRAL GENERAL NOTES FOR STAIR DESIGN CF	ND DIMENSIONS WITH ARCHITECTURAL DRAWN D TO FRAMING PER SCHEDULE ON SHEET S004 A 1" GYPCRETE TOPPING PER ARCH. RE TO BE COORDINATED PER ARCH. & MEP ARE PER WALL SCHEDULE ON SHEET S004. SEE ALL, DOOR, AND WINDOW LOCATIONS. BELOW. THE HEADERS SHOWN SUPPORT THE ETAILS. REFER TO GENERAL NOTES FOR DESIG LLATION OF STRAP TIES, HOLD DOWNS & OTHE C.) TO BE TREATED. S AND ARE SHOWN FOR THE INTENT OF SPAN AL NOTES FOR DESIGN CRITERIA. S SUPORTING T.F. HUNG FLOOR TRUSSES AND T TRUSSES DESIGNED PER MANUFACTURER. SIONS AND REQUIREMENTS. REFER TO	II/ REVI 4. E SN ER D RER.	<text></text>
						20 20 1 T.O.S.=118'-5 1/2" 3510 SW19 WB H3 H3 H3 H3 H3 H3 H3 S510 SW19 WB H3 H3 H3 S510 SW19 WB H3 S510 SW19 WB H3 S510 SW19 WB H3 S510 SW19 WB S510 SW19 WB S510 SU2 SU2 SU3 SU3 SU3 SU3 SU3 SU3 SU3 SU3	" 24 25 — H	1901 Pennsylvania Drive Columbia, MO 65202 P 573-814-1568 NOTICE McClure Engineering Co. is not responsible or liable for any issues, claims, damages, or losses (collectively, osses") which arise from failure to follow these Plans, Specifications, and the engineering intent they convey, or for losses which arise from failure to obtain and/or follow the engineers' or surveyors' guidance with respect to any alleged errors, omissions, inconsistencies, ambiguities, or conflicts contained within the Plans or Specifications. ISSOURI CERTIFICATE OF AUTHORITY NO. E-2006023253 EXPIRES: DECEMBER 31, 2024 FOR PERMIT NOT FOR DOT FOR
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SHEET TITLE LEVEL 3 FRAMING PLAN

PROJECT NUMBER: 2023000333

SHEET NUMBER:





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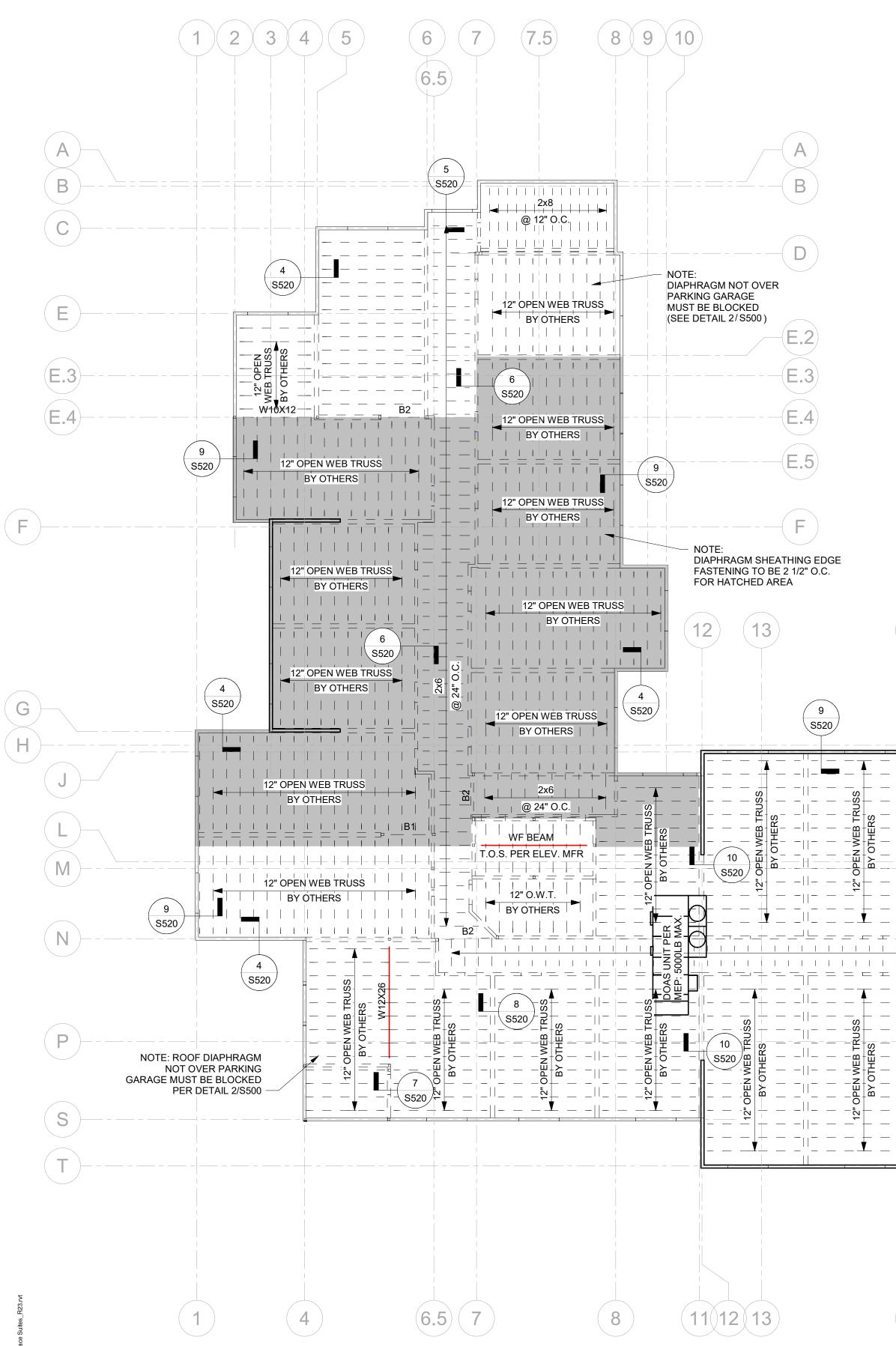
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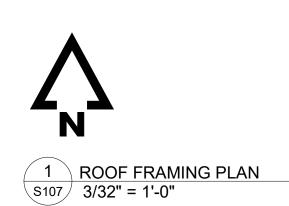
SHEET TITLE

LEVEL 4 FRAMING PLAN

PROJECT NUMBER: 2023000333

SHEET NUMBER:





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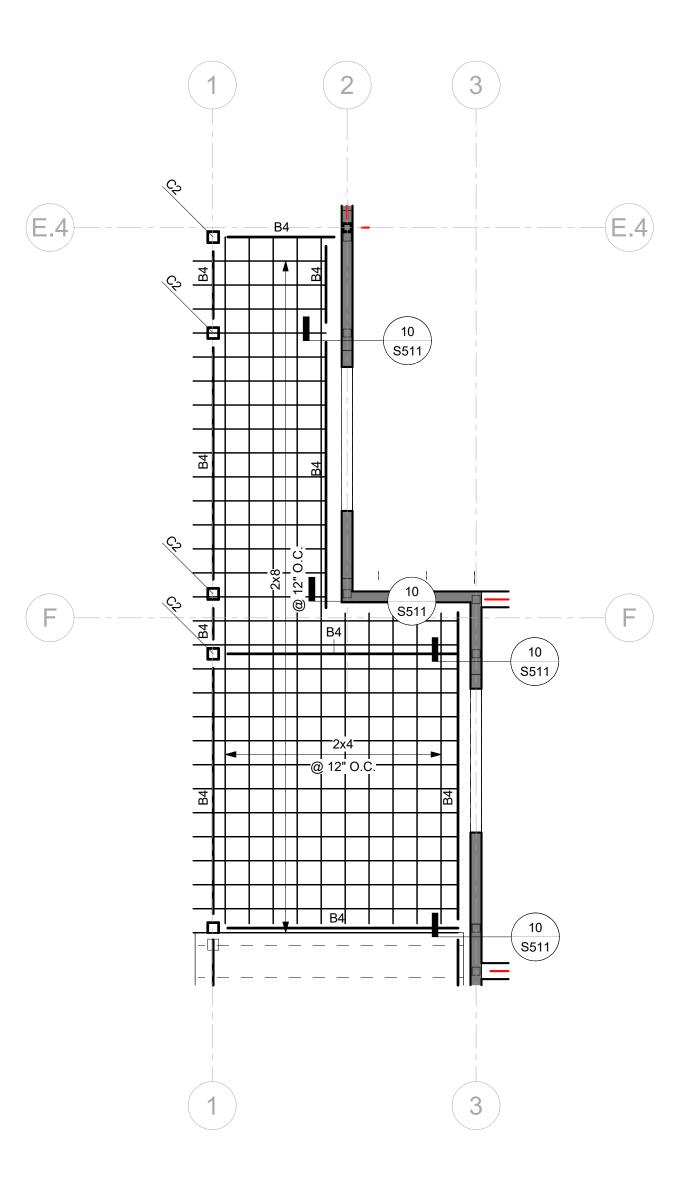
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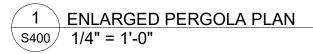
SHEET TITLE

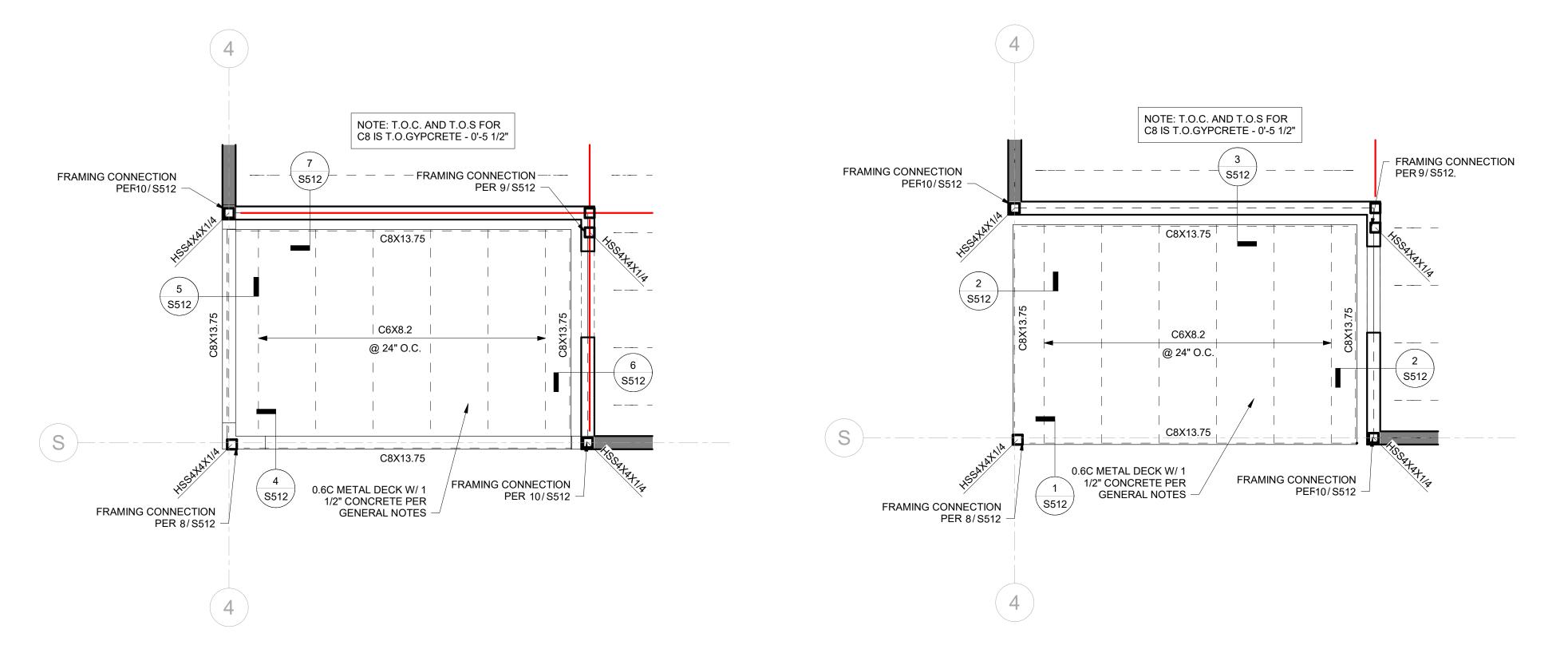
ROOF FRAMING PLAN

PROJECT NUMBER: 2023000333

SHEET NUMBER:







2 LEVEL 2 BALCONY FRAMING PLAN S400 3/8" = 1'-0"

3 LEVELS 3 & 4 BALCONYFRAMING PLAN \$400 3/8" = 1'-0"

PRINTS ISSUED 11/01/23 - CITY SUBMITTAL **REVISIONS:**





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

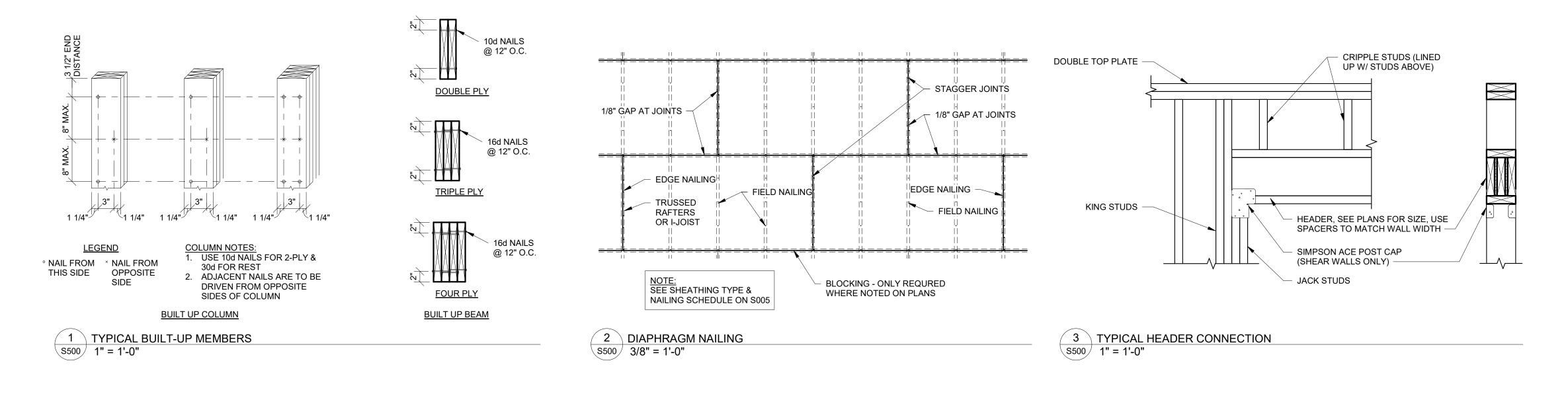
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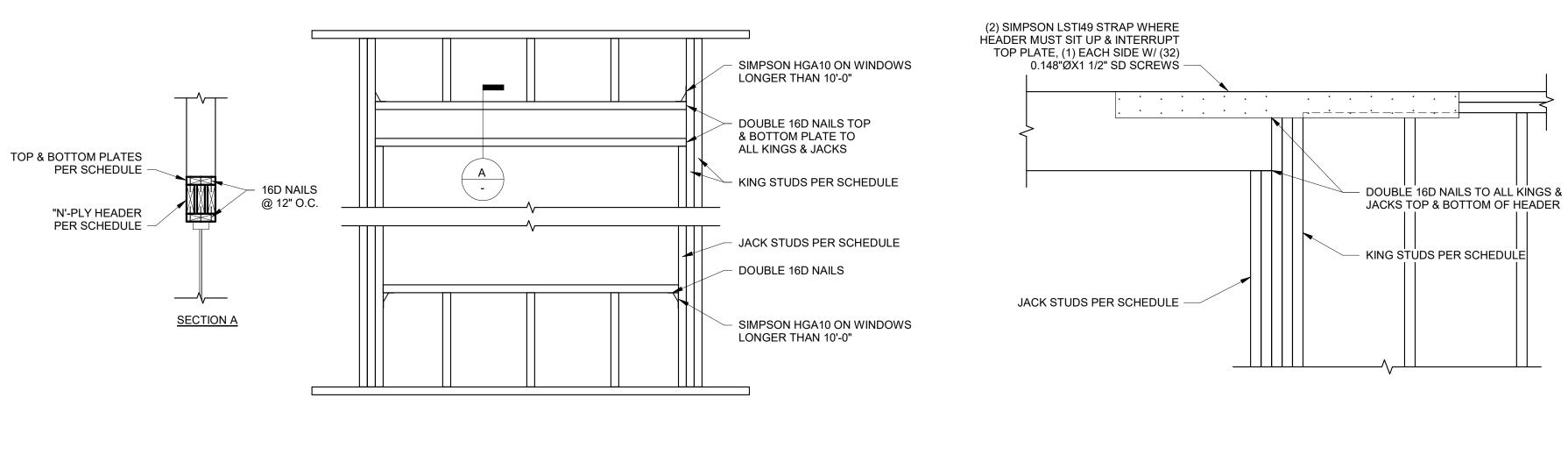


SHEET TITLE ENLARGED VIEWS

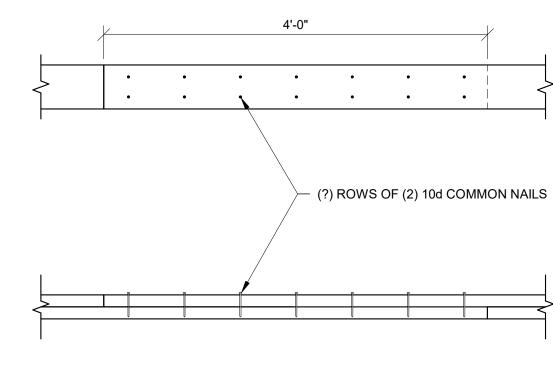
PROJECT NUMBER: 2023000333



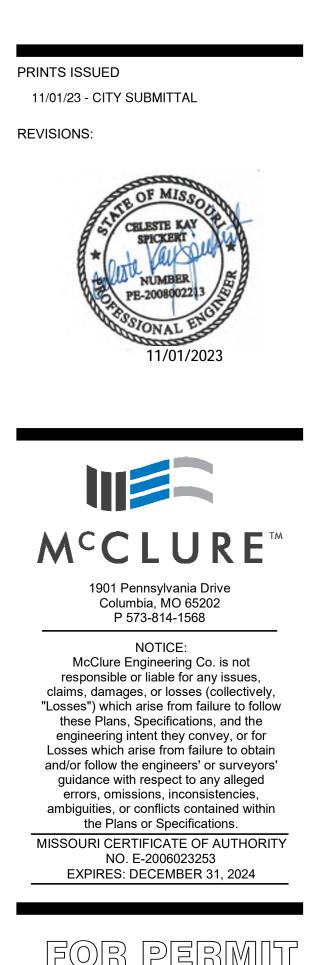




5 FRAMING AT OPENING \$500 3/4" = 1'-0" 6 FRAMING AT OPENING - RAISED HEADER \$500 1" = 1'-0"



4 TOP PLATE SPLICE \$500 1" = 1'-0"



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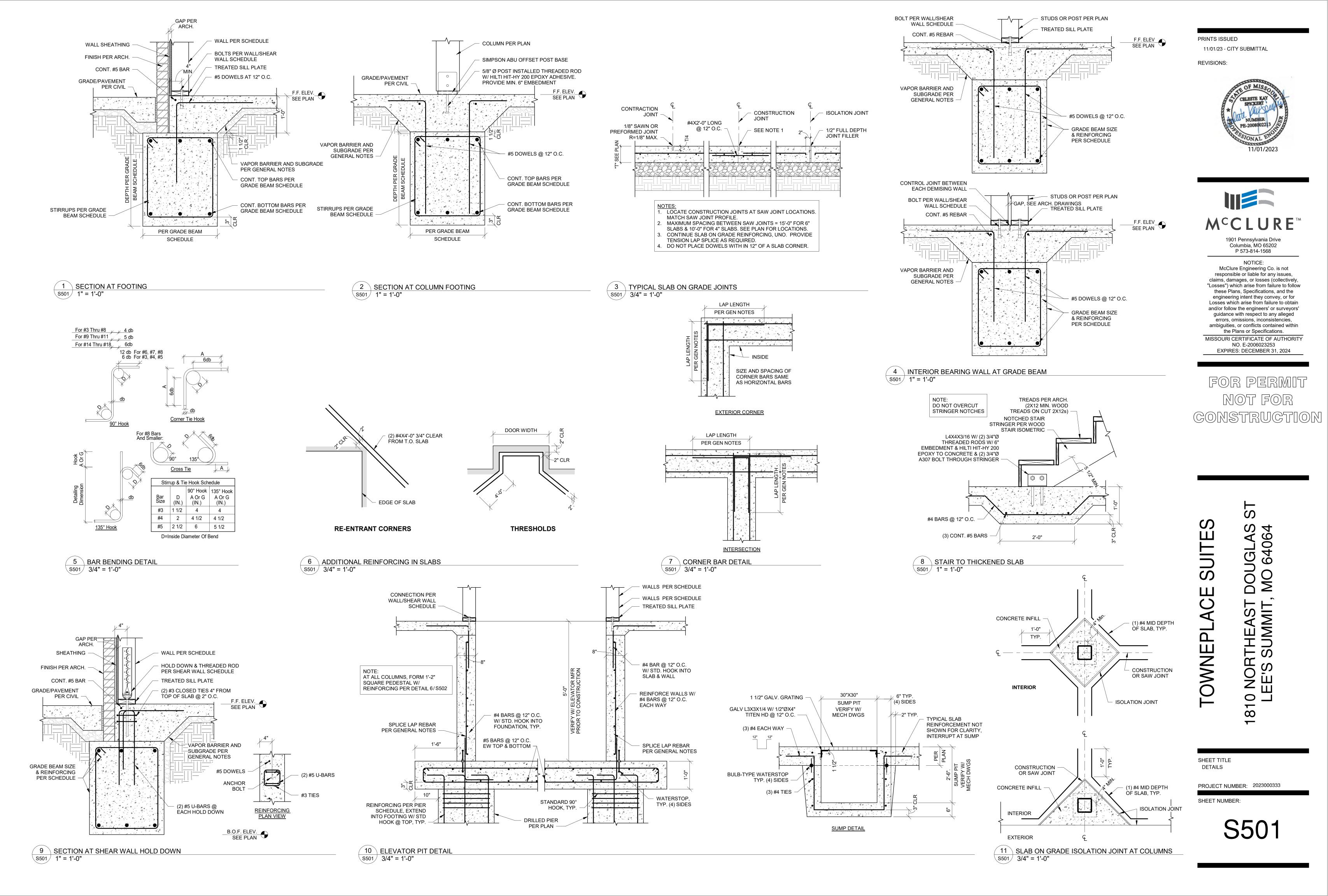


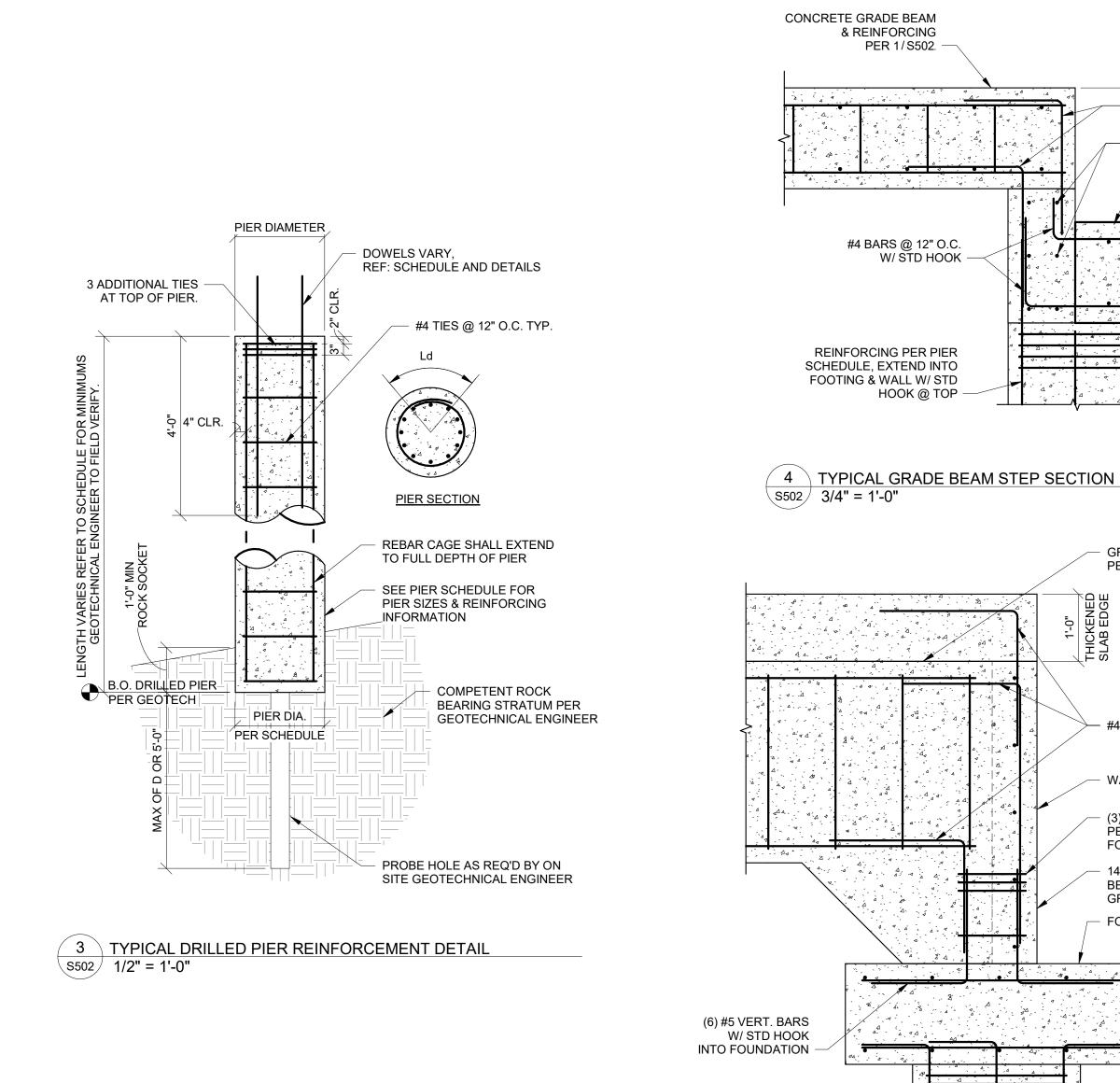
SHEET TITLE

TYPICAL DETAILS

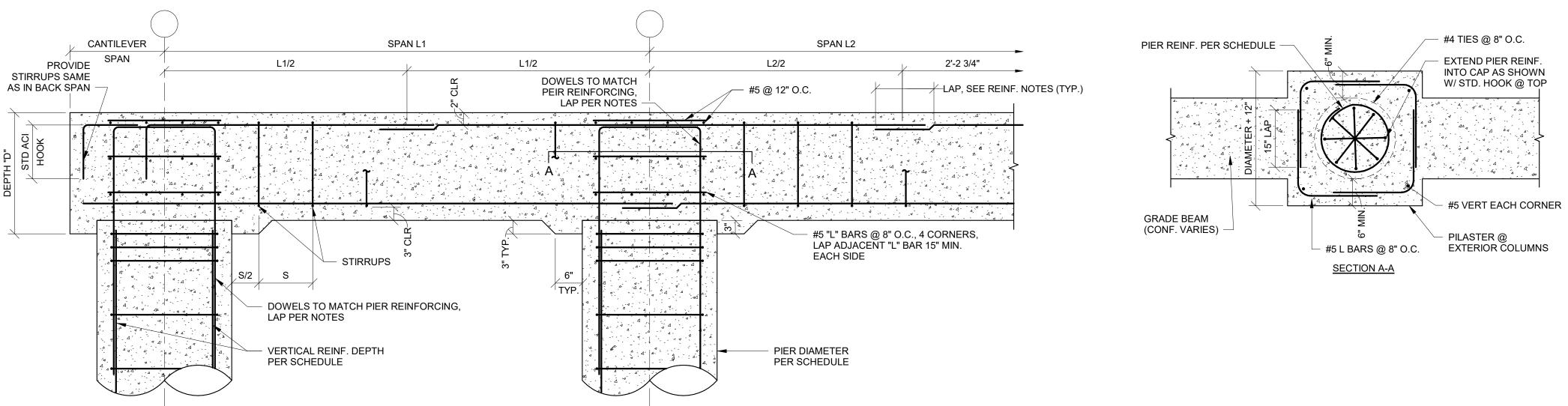
PROJECT NUMBER: 2023000333

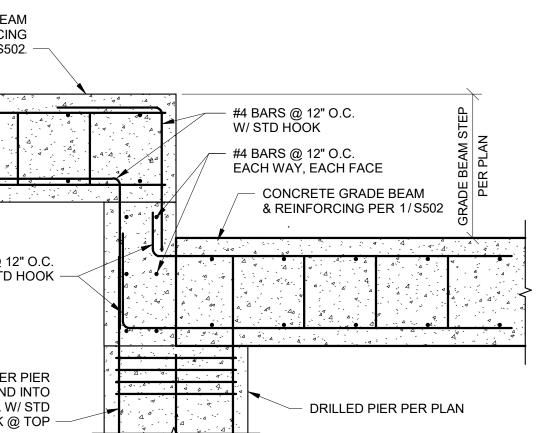
SHEET NUMBER:

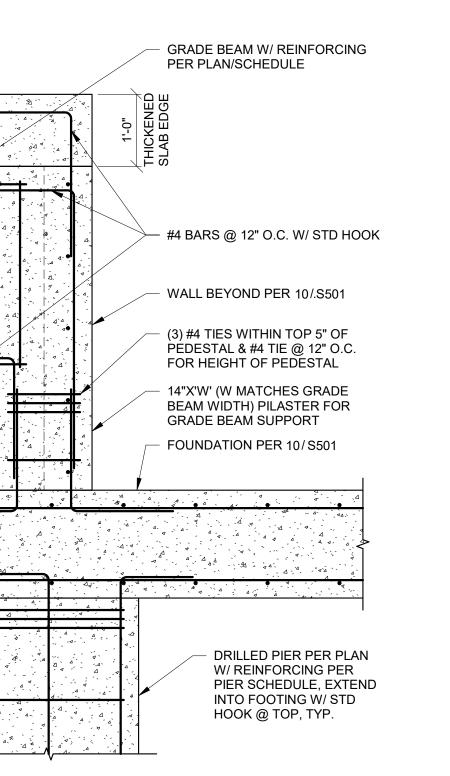


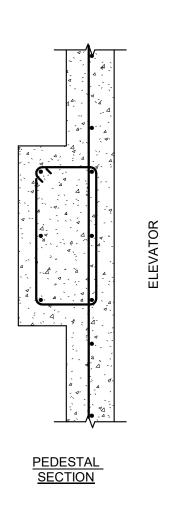






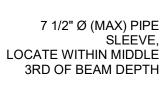


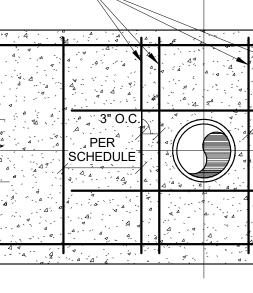




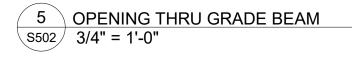
(2) ADDITIONAL SETS OF STIRRUPS ÉACH SIDE OF SLEEVE

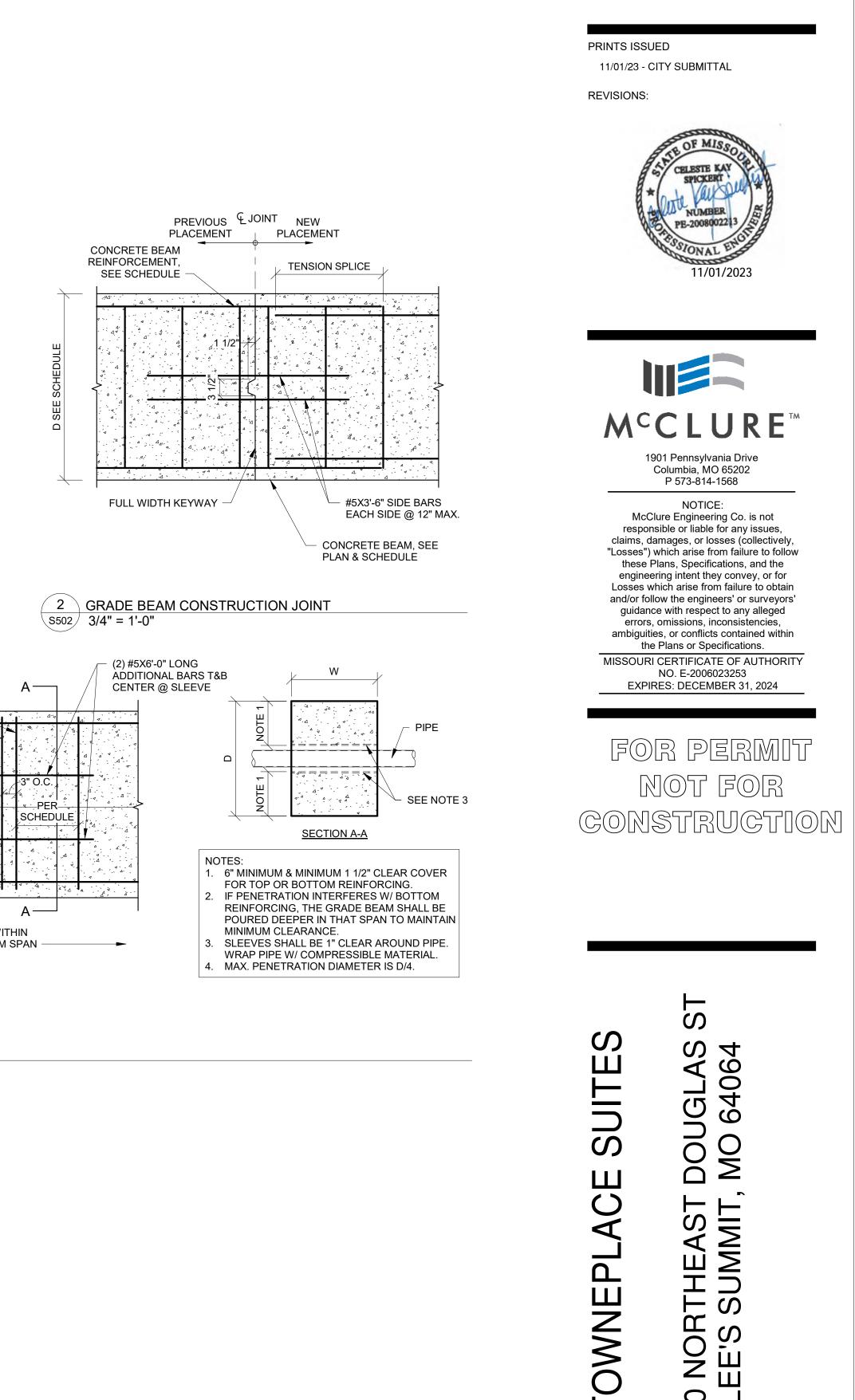
-





- LOCATE SLEEVE WITHIN MIDDLE 3RD OF BEAM SPAN





SHEET TITLE

DETAILS

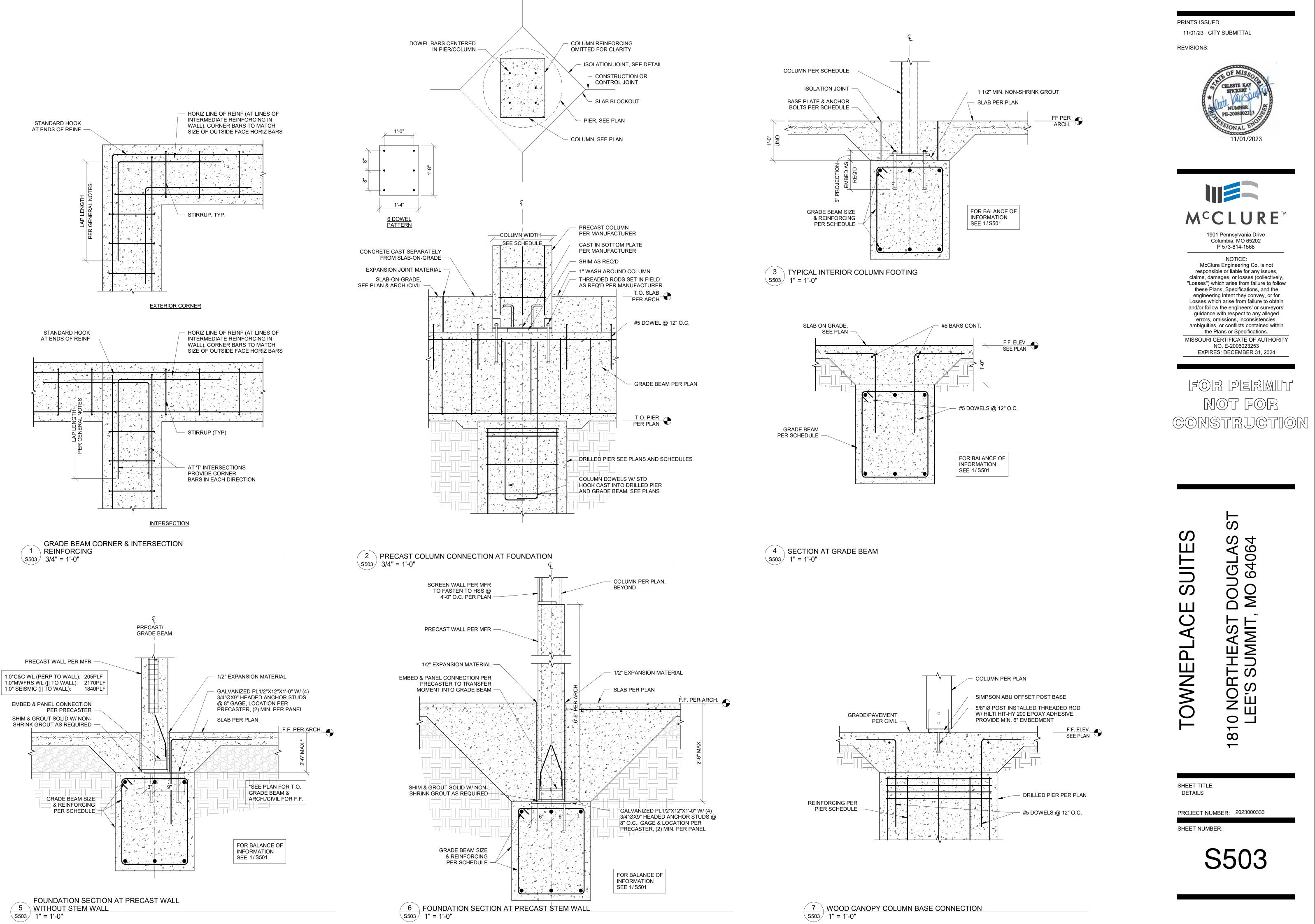
TOWNEPI

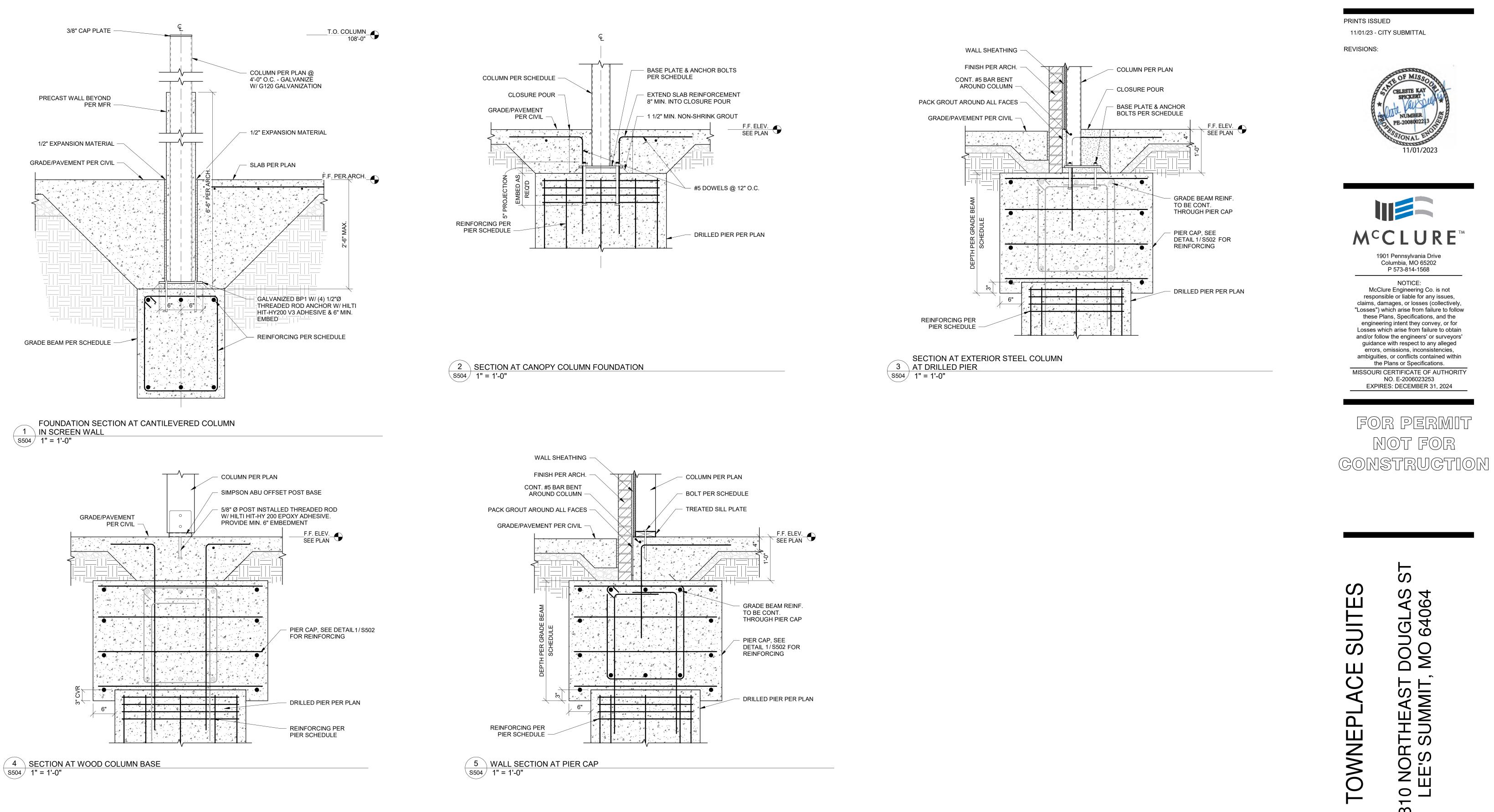
PROJECT NUMBER: 2023000333

SHEET NUMBER:

S502

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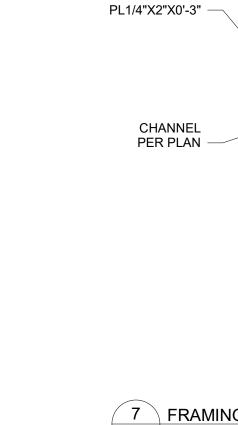


Ô **—**

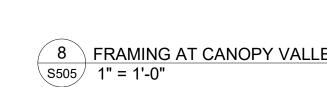
SHEET TITLE DETAILS

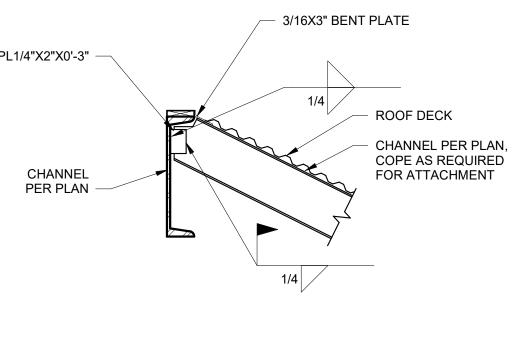
PROJECT NUMBER: 2023000333

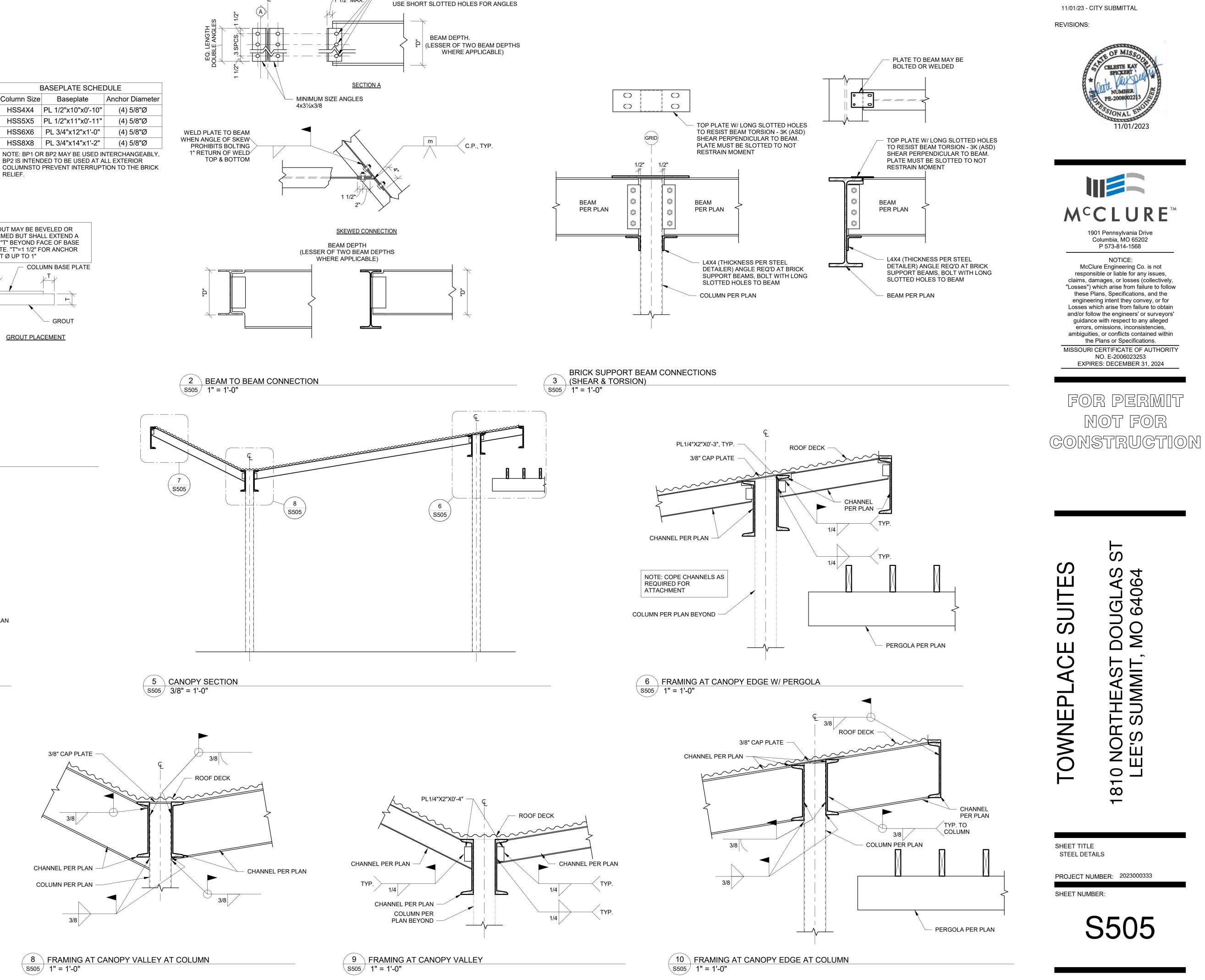
SHEET NUMBER:









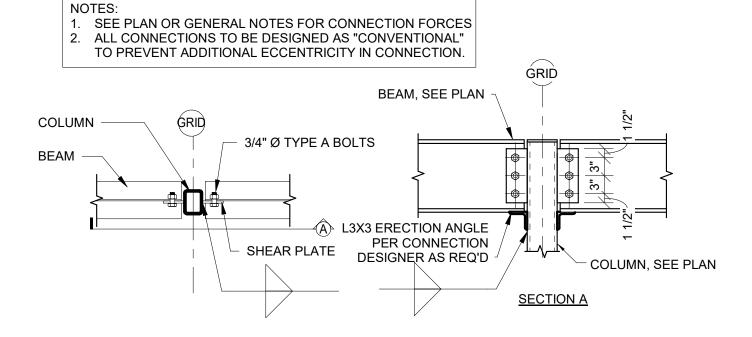


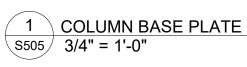
PRINTS ISSUED

- 2 BOLTS MINIMUM USE ANGLES 6x4x5/16 x 0'-4" FOR "D" LESS THAN OR EQUAL TO 7"

/1 1/2" MAX.

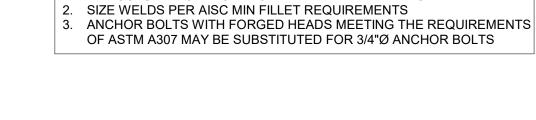




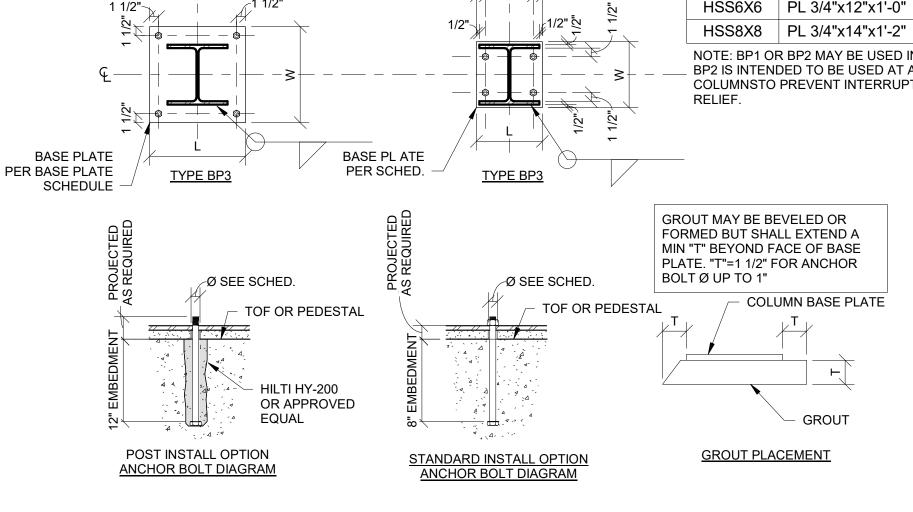


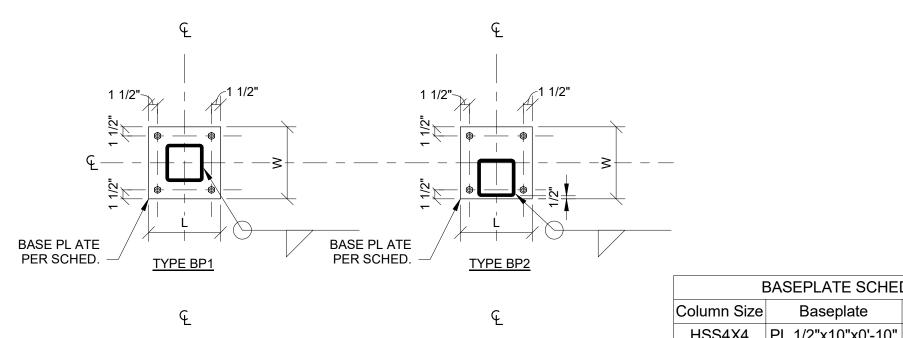
NOTES:



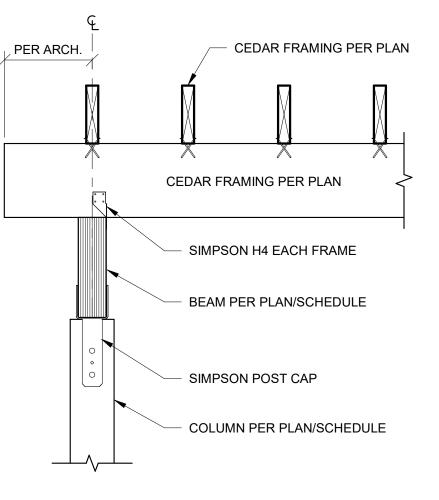


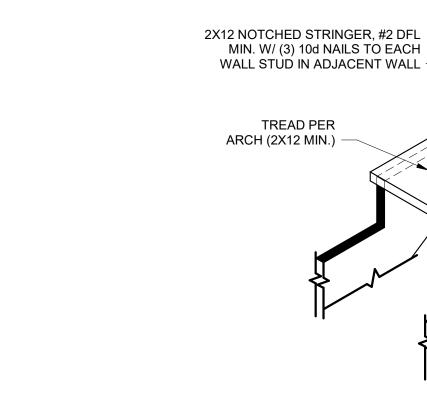
1. SEE COLUMN SCHEDULE FOR BASE PLATE WxLxTHICKNESS



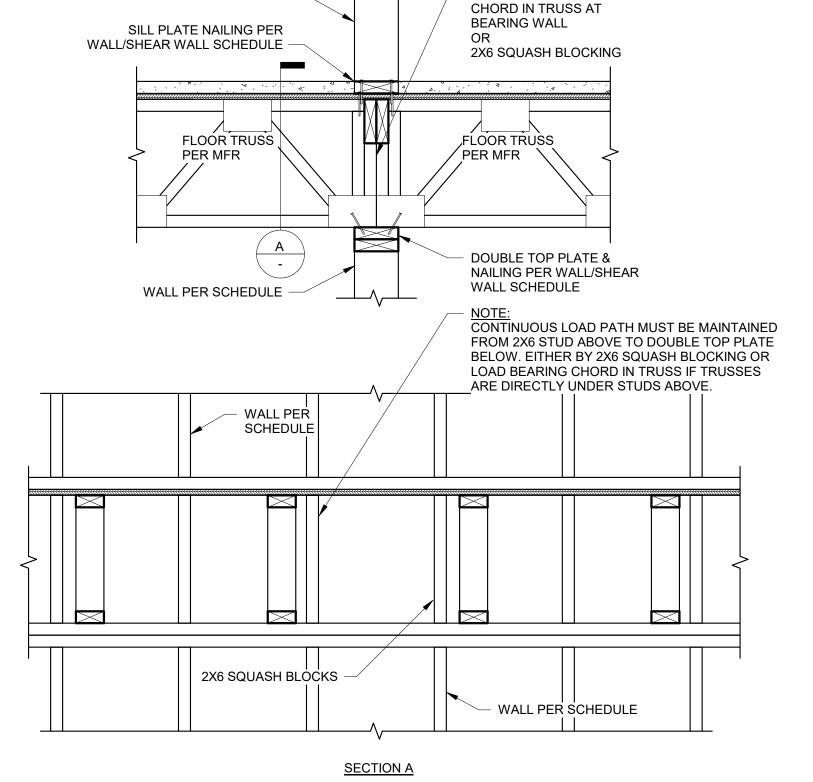


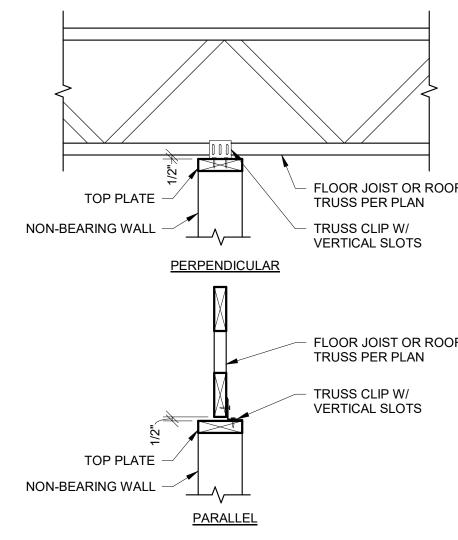
1 1/2"~





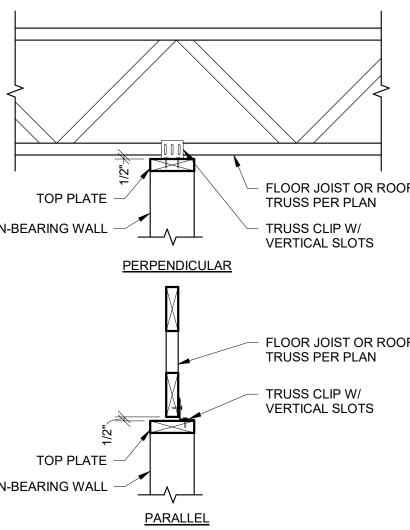


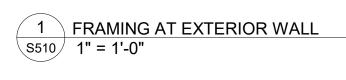




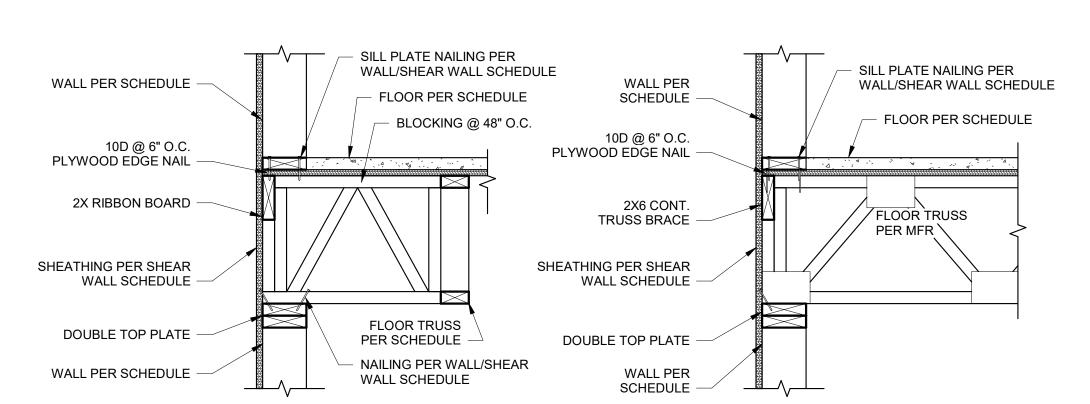
S510 1" = 1'-0"

COLUMN PER PLAN

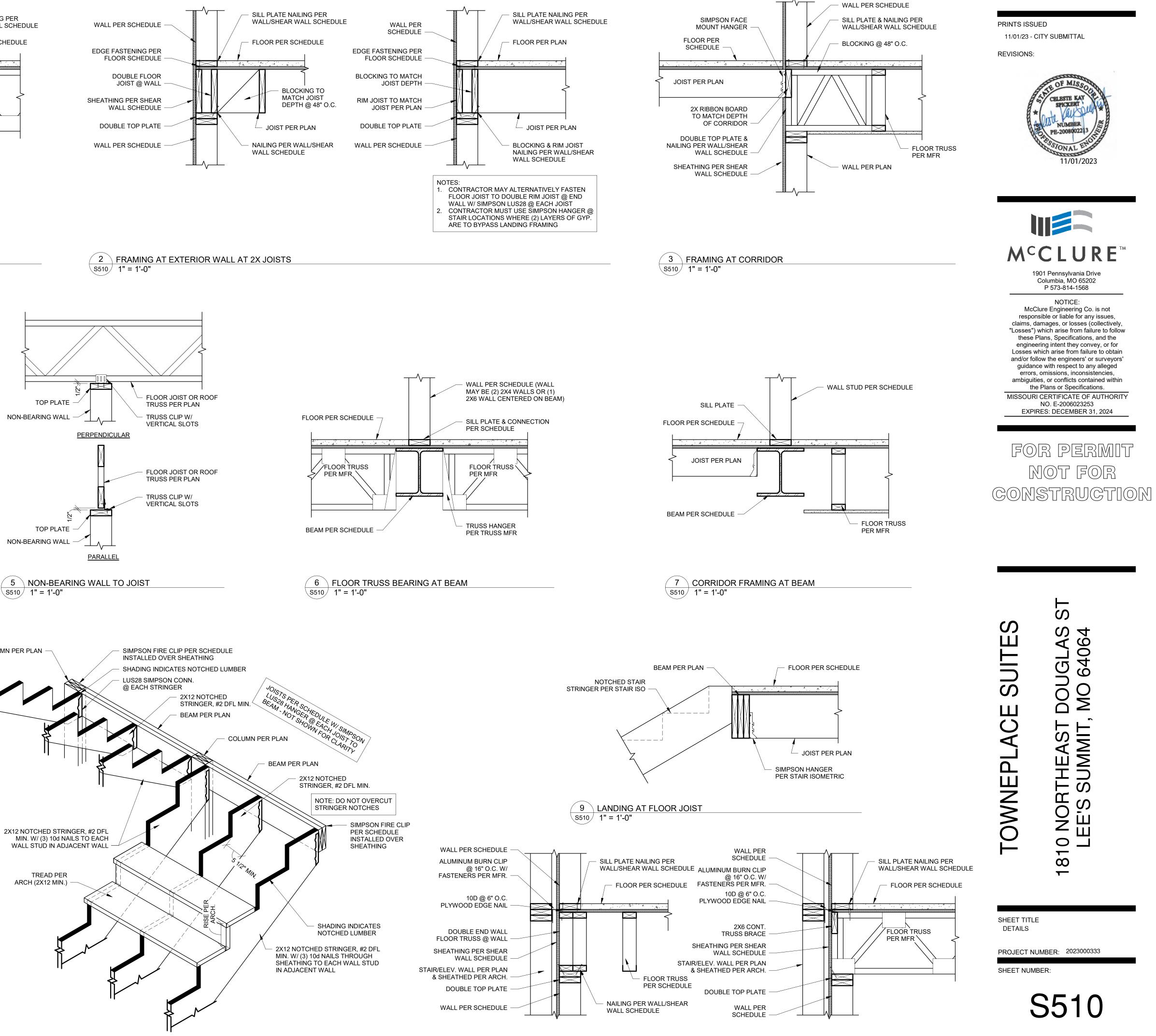


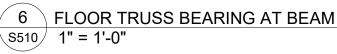


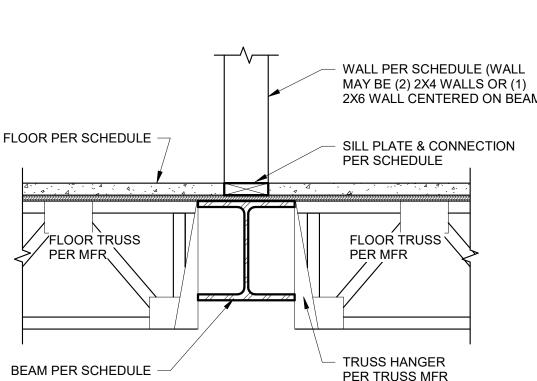
WALL PER SCHEDULE -

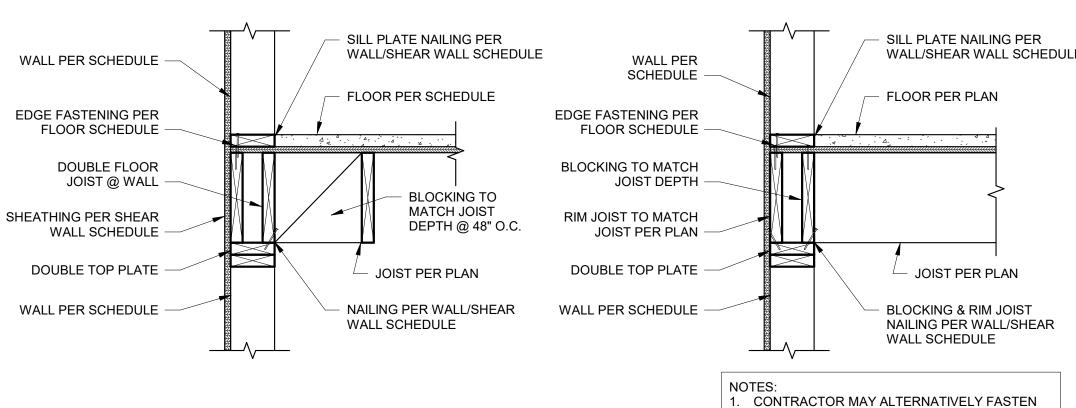


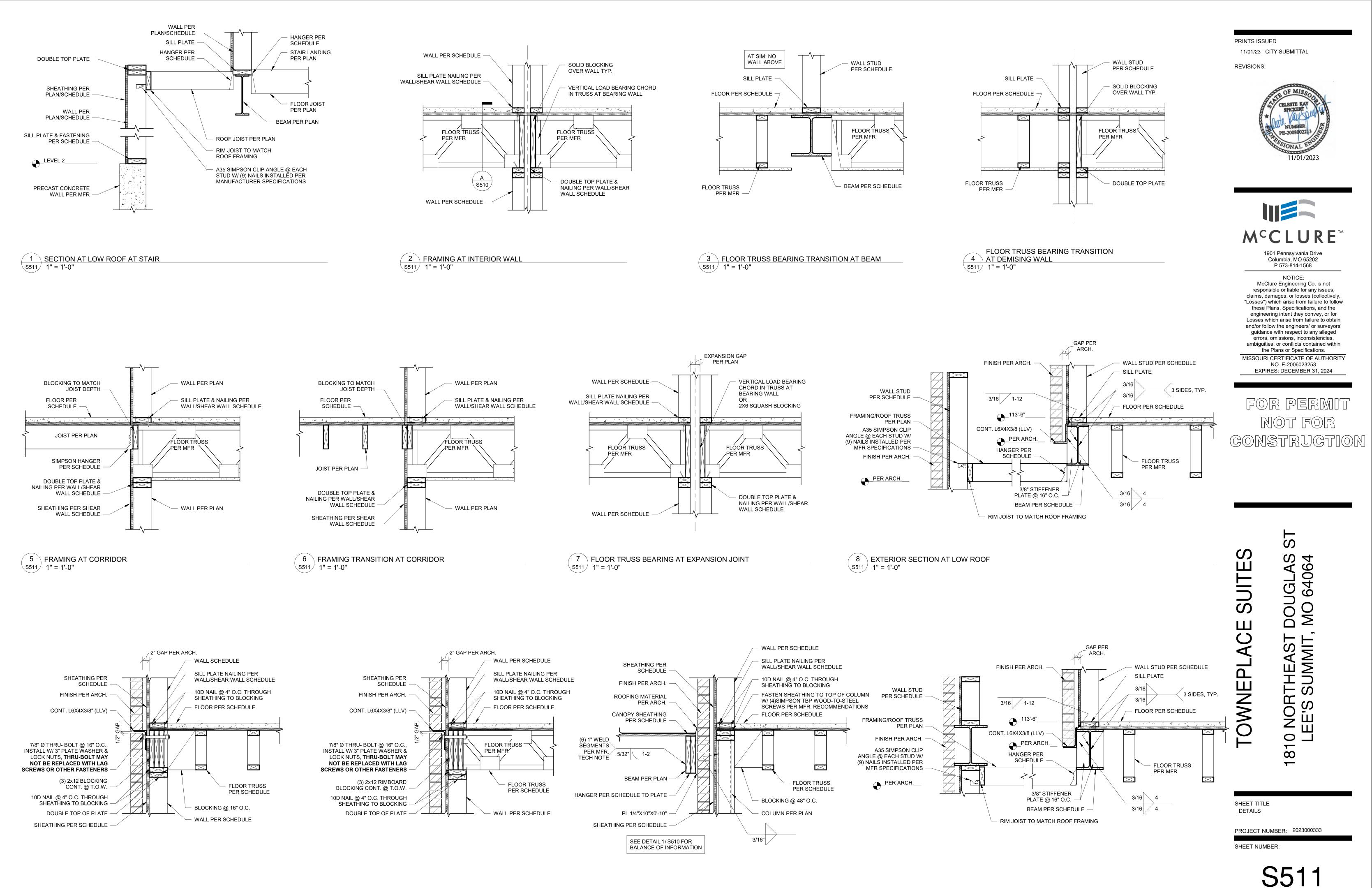
VERTICAL LOAD BEARING



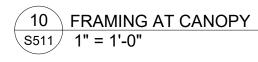




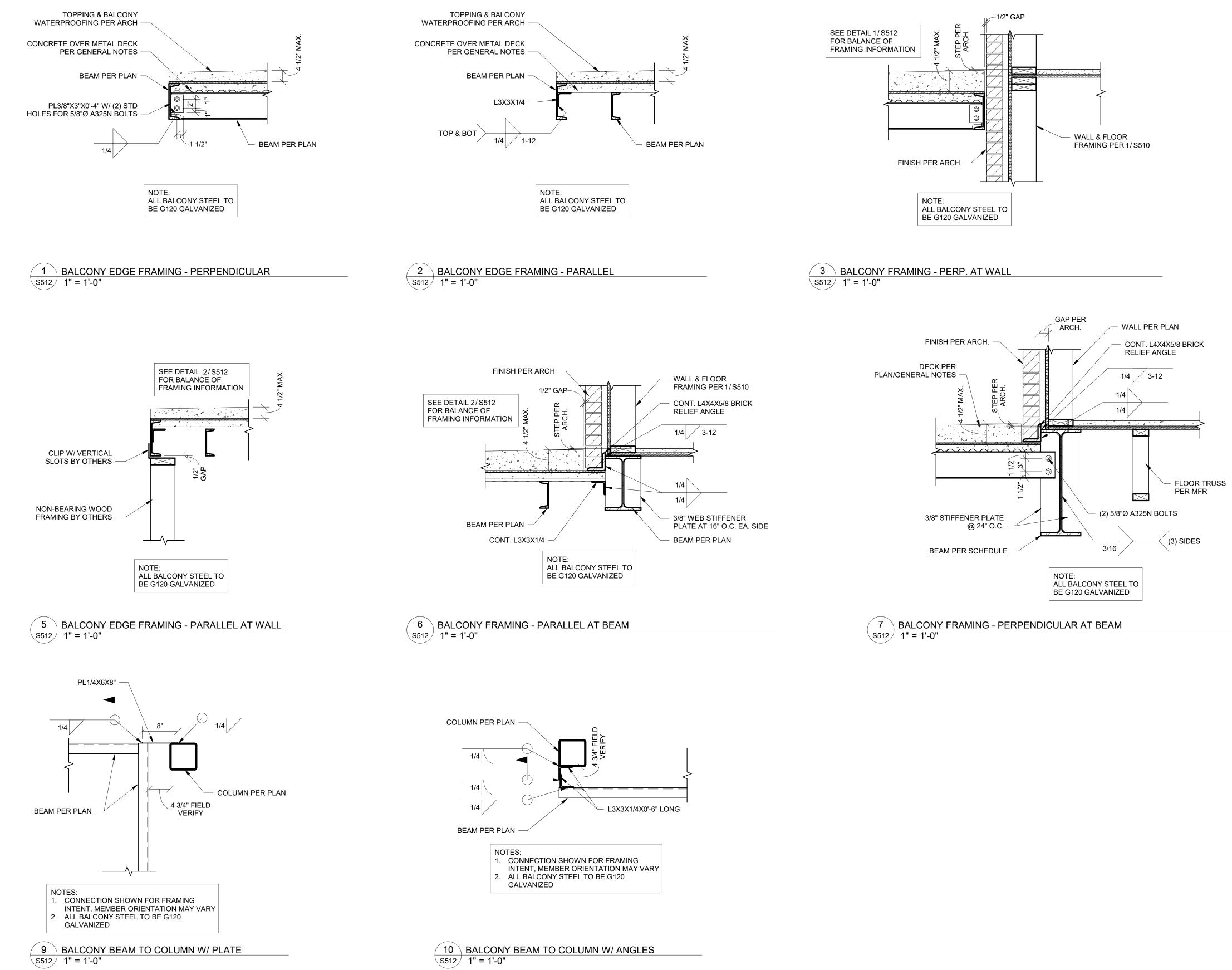


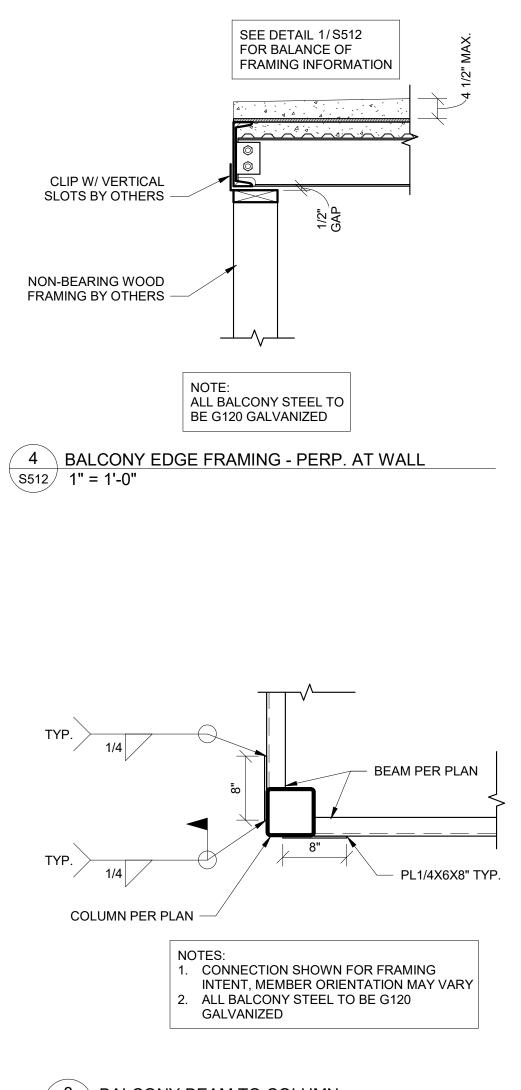


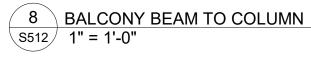
9 FRAMING AT EXTERIOR WITH BRICK RELIEF S511 1" = 1'-0"













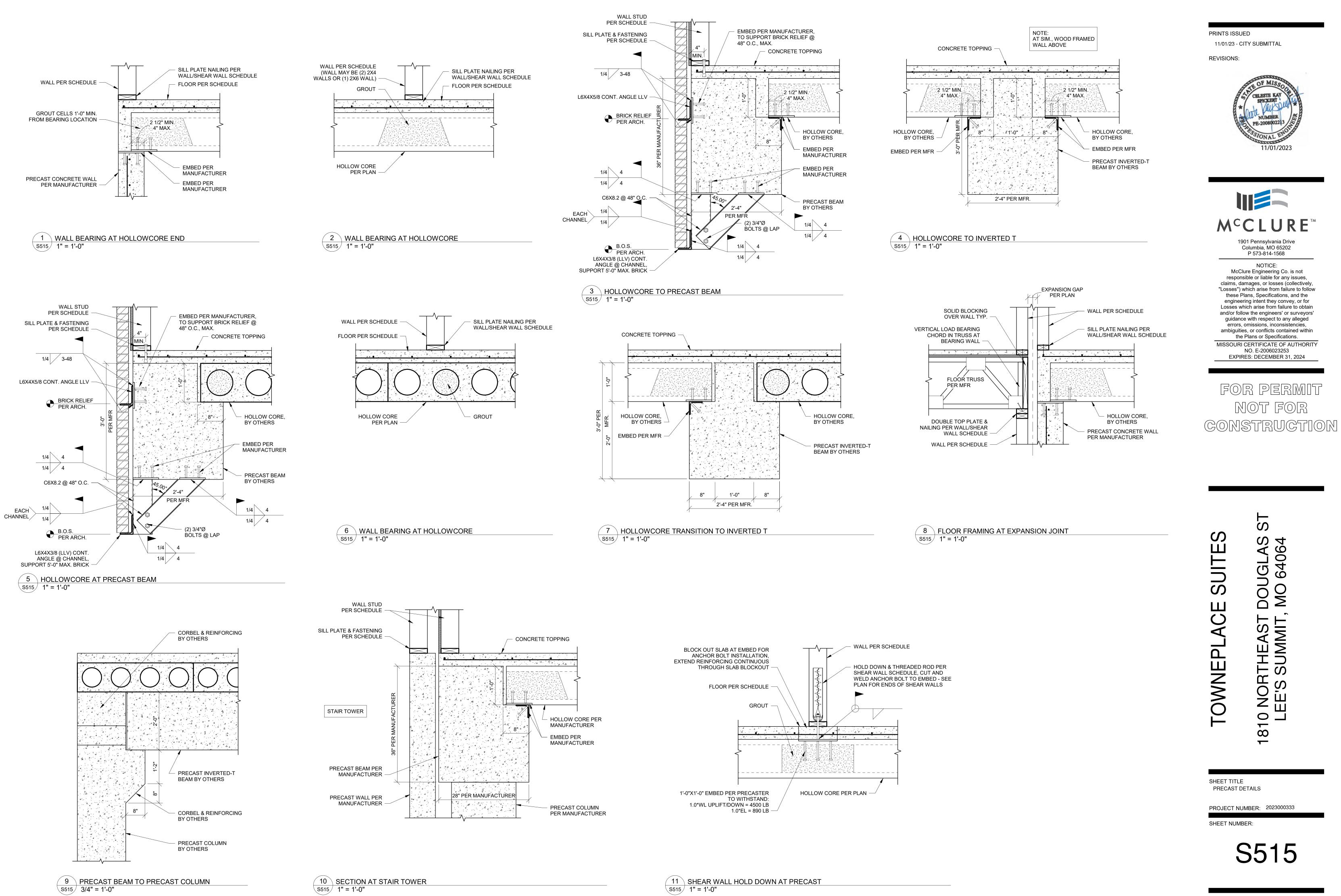


SHEET TITLE

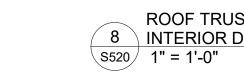
DETAILS

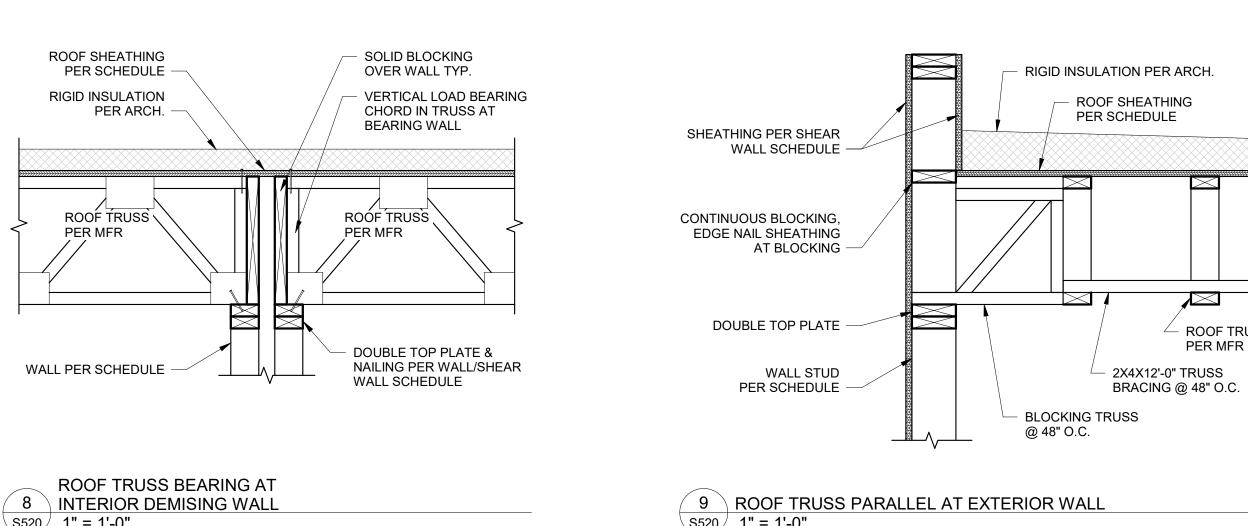
PROJECT NUMBER: 2023000333

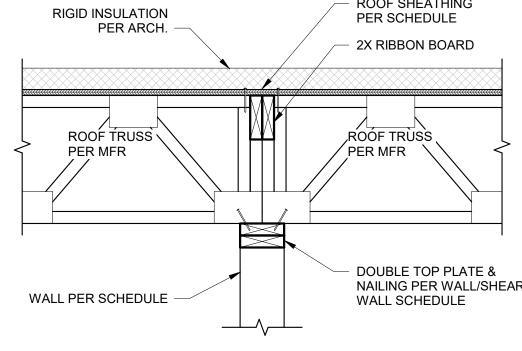
SHEET NUMBER:



S515 1" = 1'-0"

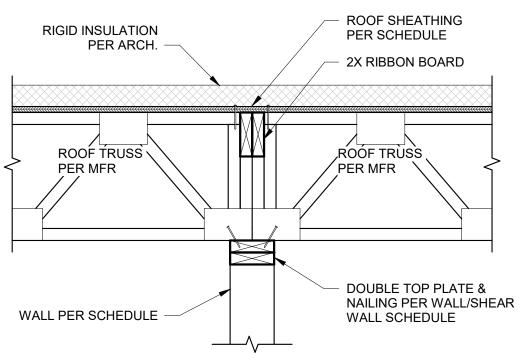


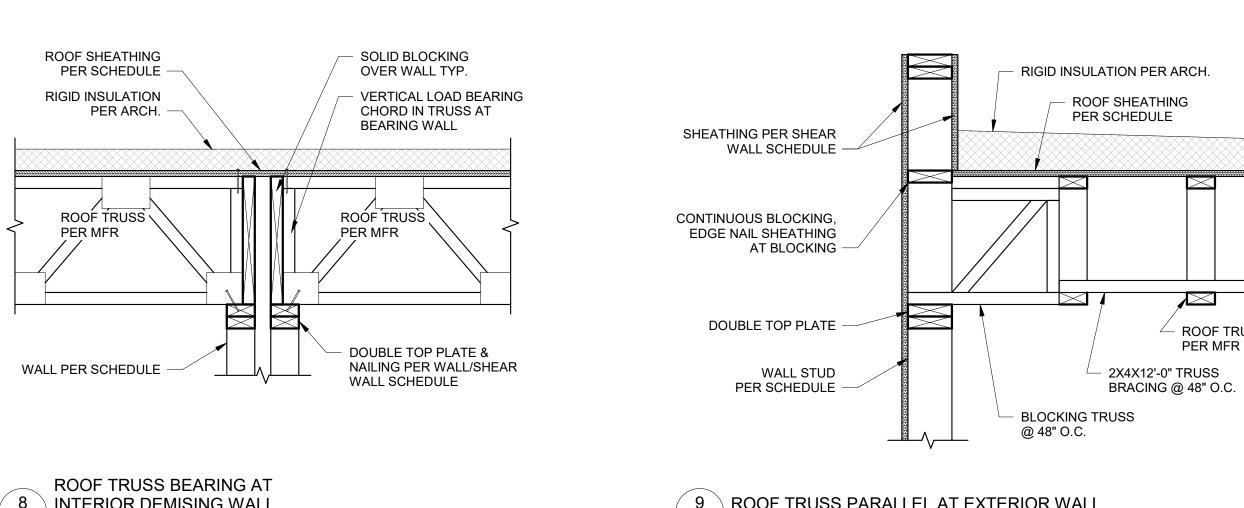


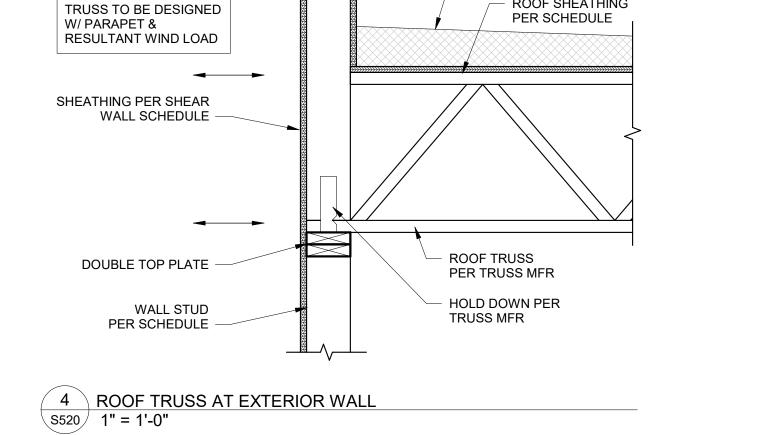


7 ROOF FRAMING AT INTERIOR WALL

S520 1" = 1'-0"







SHEATHING PER SHEAR

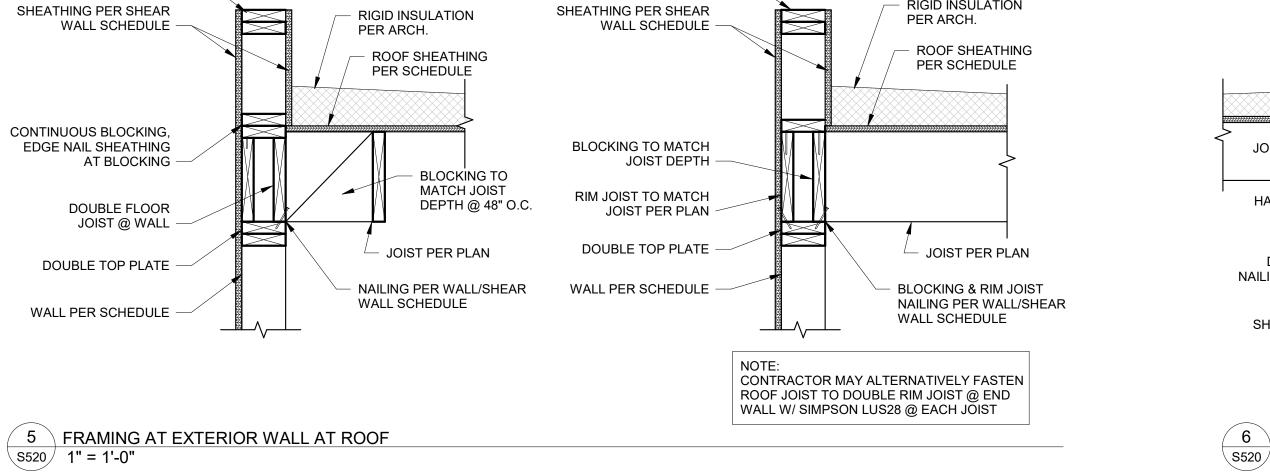
RIGID INSULATION

ROOF SHEATHING

WALL SCHEDULE

PER ARCH.

DOUBLE TOP PLATE

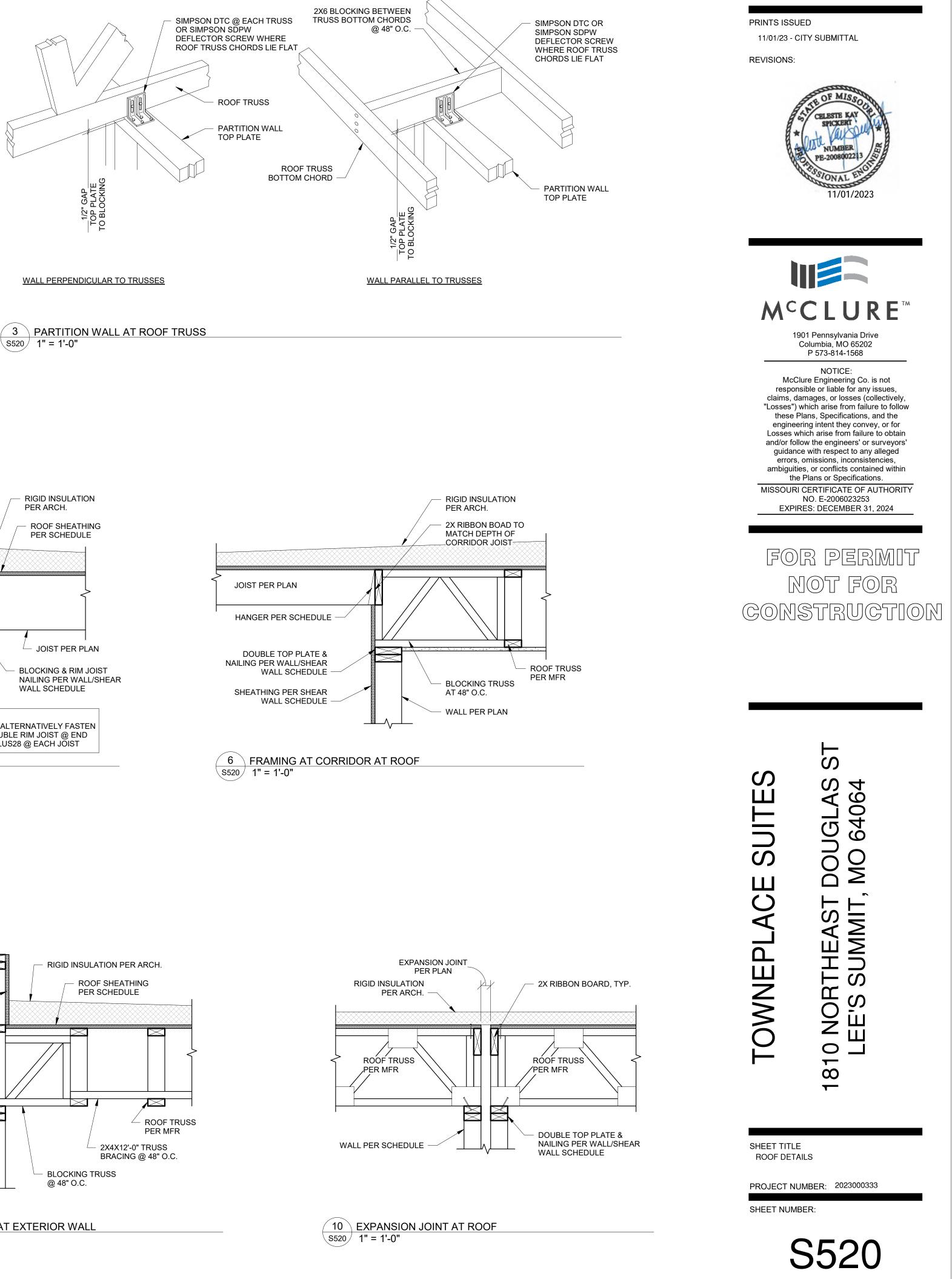


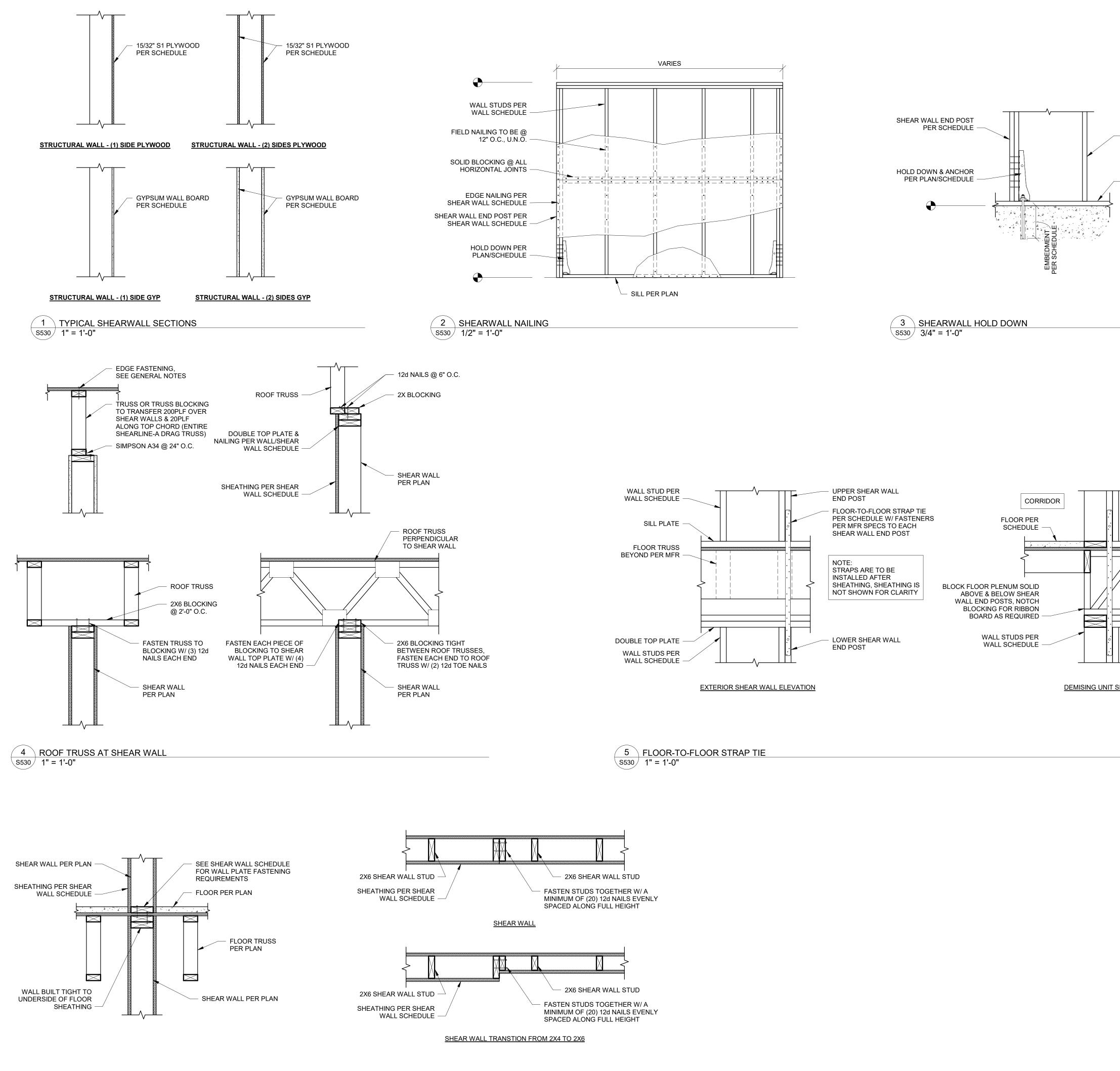
DOUBLE TOP PLATE

DOUBLE TOP PLATE -

S520 1" = 1'-0"

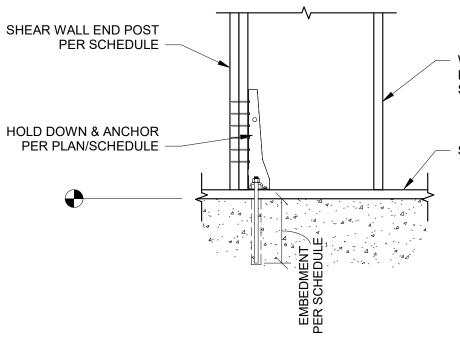
S520 1" = 1'-0"

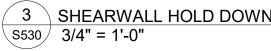




6 SHEAR WALL PARALLEL TO FLOOR TRUSSES 5530 1" = 1'-0"

7 SHEAR WALL STUD DEPTH TRANSITION 5530 1" = 1'-0"

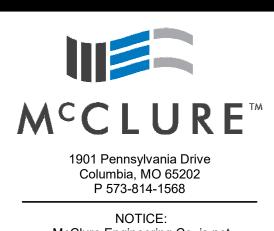




DEMISING UNIT SHEAR WALL ELEVATION

PRINTS ISSUED 11/01/23 - CITY SUBMITTAL **REVISIONS**:





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

FOR PERMIT NOT FOR CONSTRUCTION



0 ∞ -

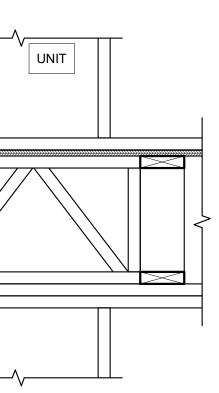
SHEET TITLE

SHEAR WALL DETAILS

PROJECT NUMBER: 2023000333

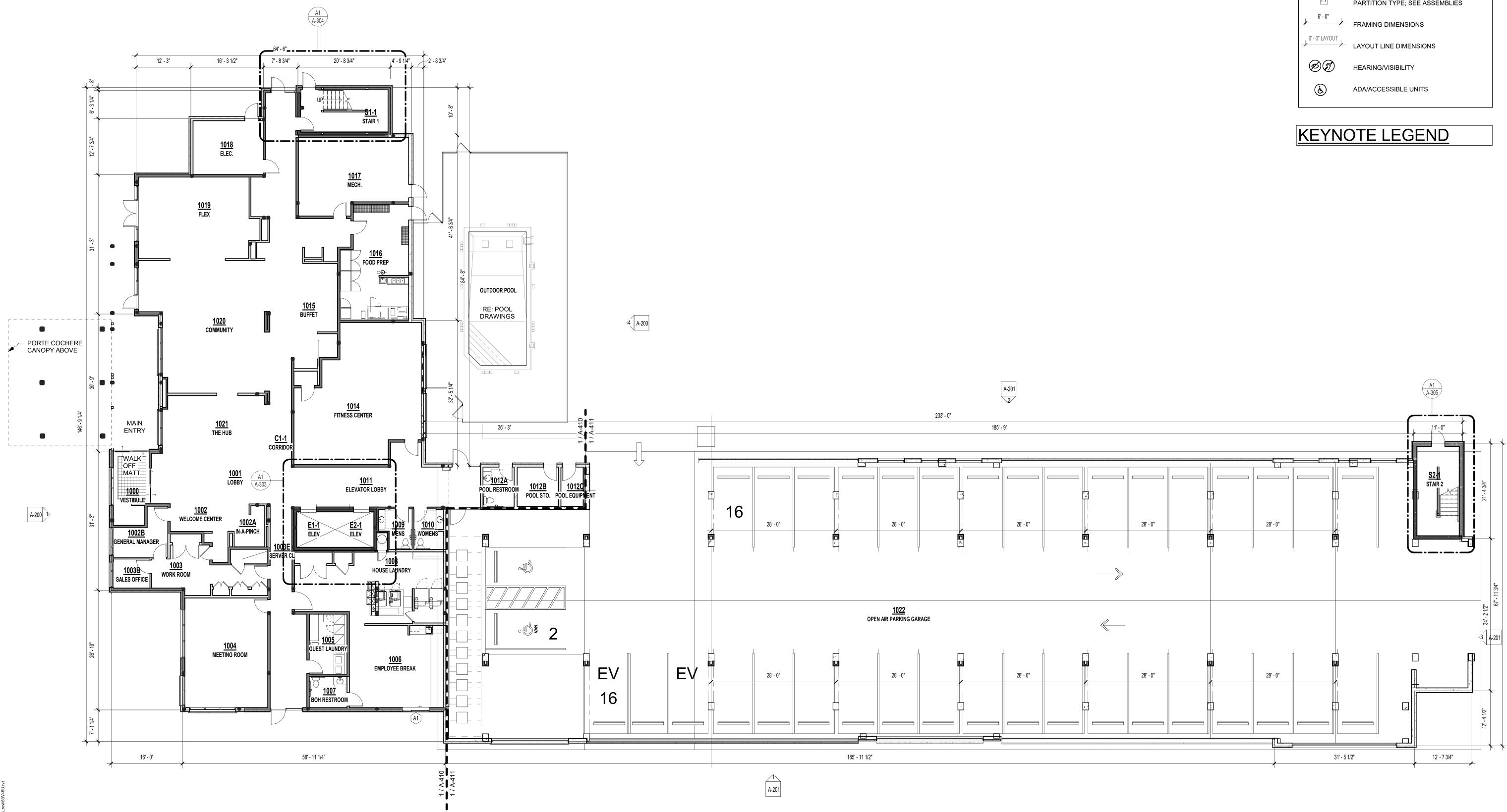
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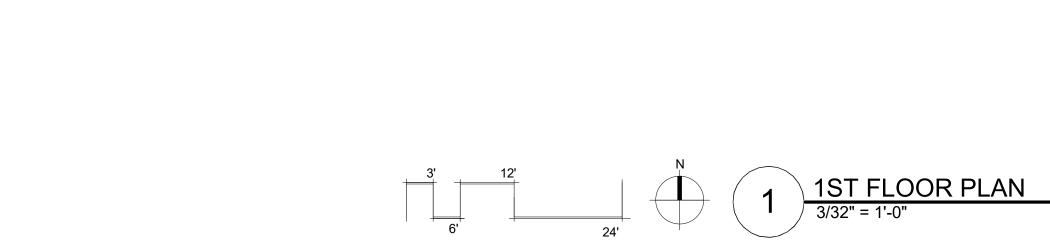




WALL STUDS PER WALL SCHEDULE

SILL PER PLAN







SHEET TITLE FIRST FLOOR PLAN

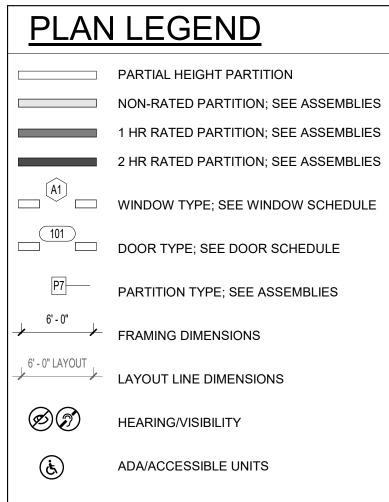
SHEET NUMBER:

PROJECT NUMBER: 23098

A-101





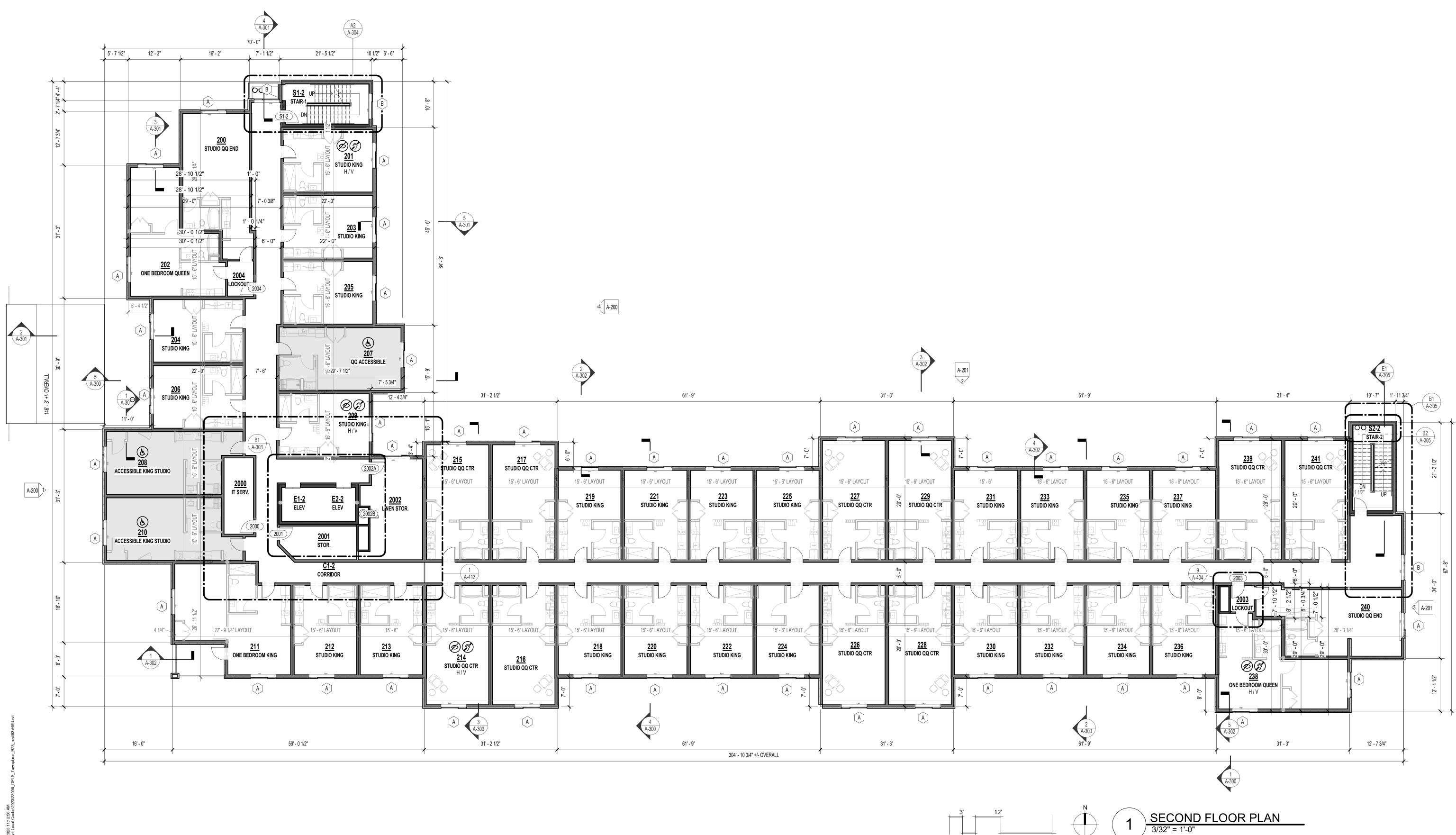


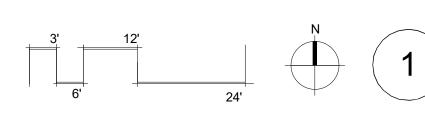
REFERENCE G-003 FOR GENERAL NOTES

PRINTS ISSUED

REVISIONS:

11/01/2023 - CITY SUBMITTAL







ACE

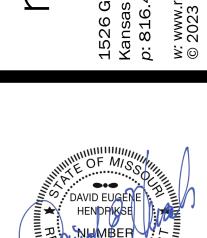
SHEET TITLE

SHEET NUMBER:

SECOND FLOOR PLAN

PROJECT NUMBER: 23098

A-102

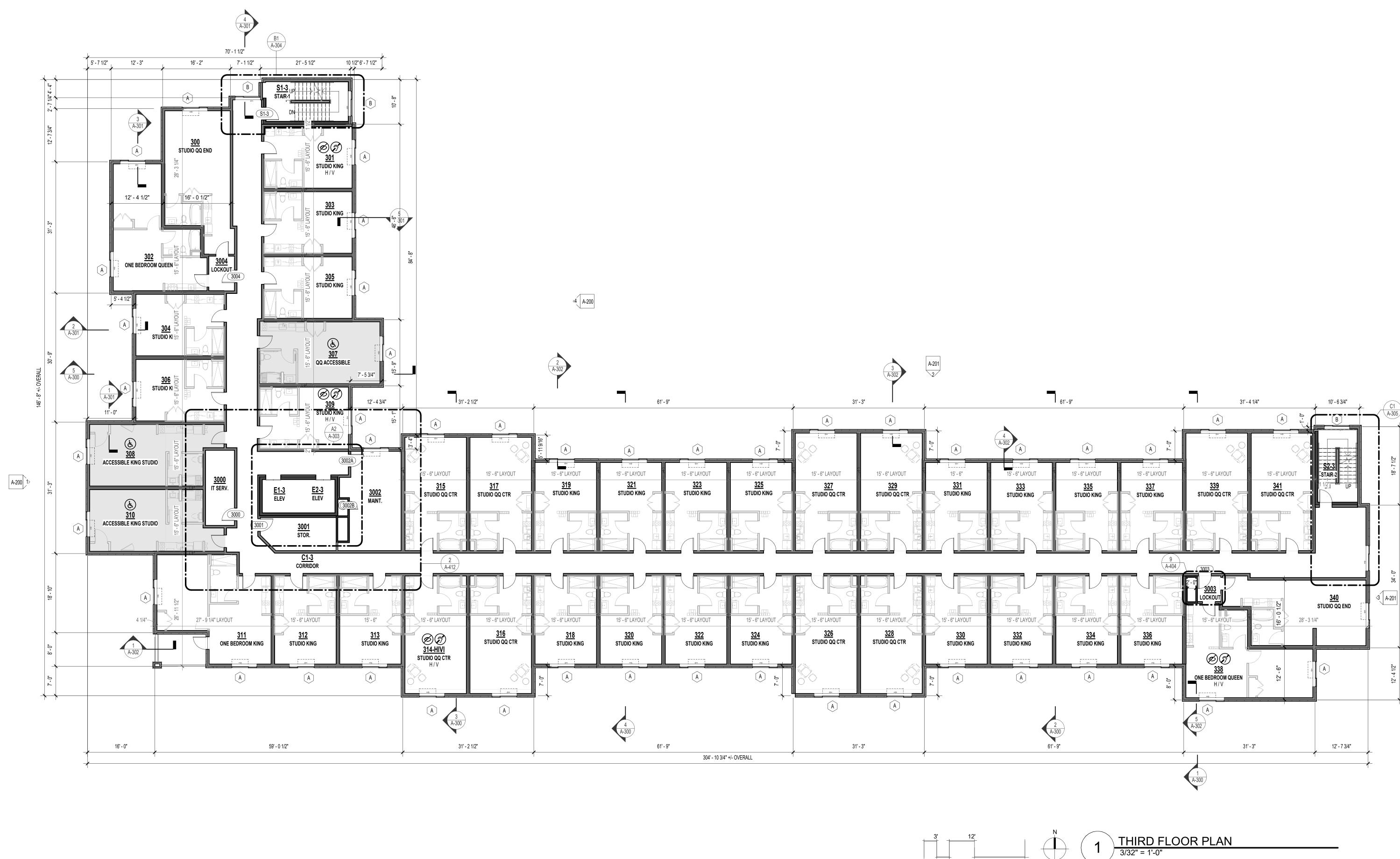






REFERENCE G-003 FOR GENERAL NOTES REFERENCE A-101 FOR PLAN LEGEND

REVISIONS:



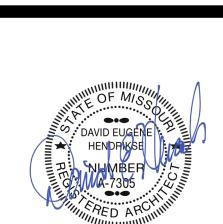


SHEET TITLE THIRD FLOOR PLAN

SHEET NUMBER:

PROJECT NUMBER: 23098

A-103



(C1)

A-305

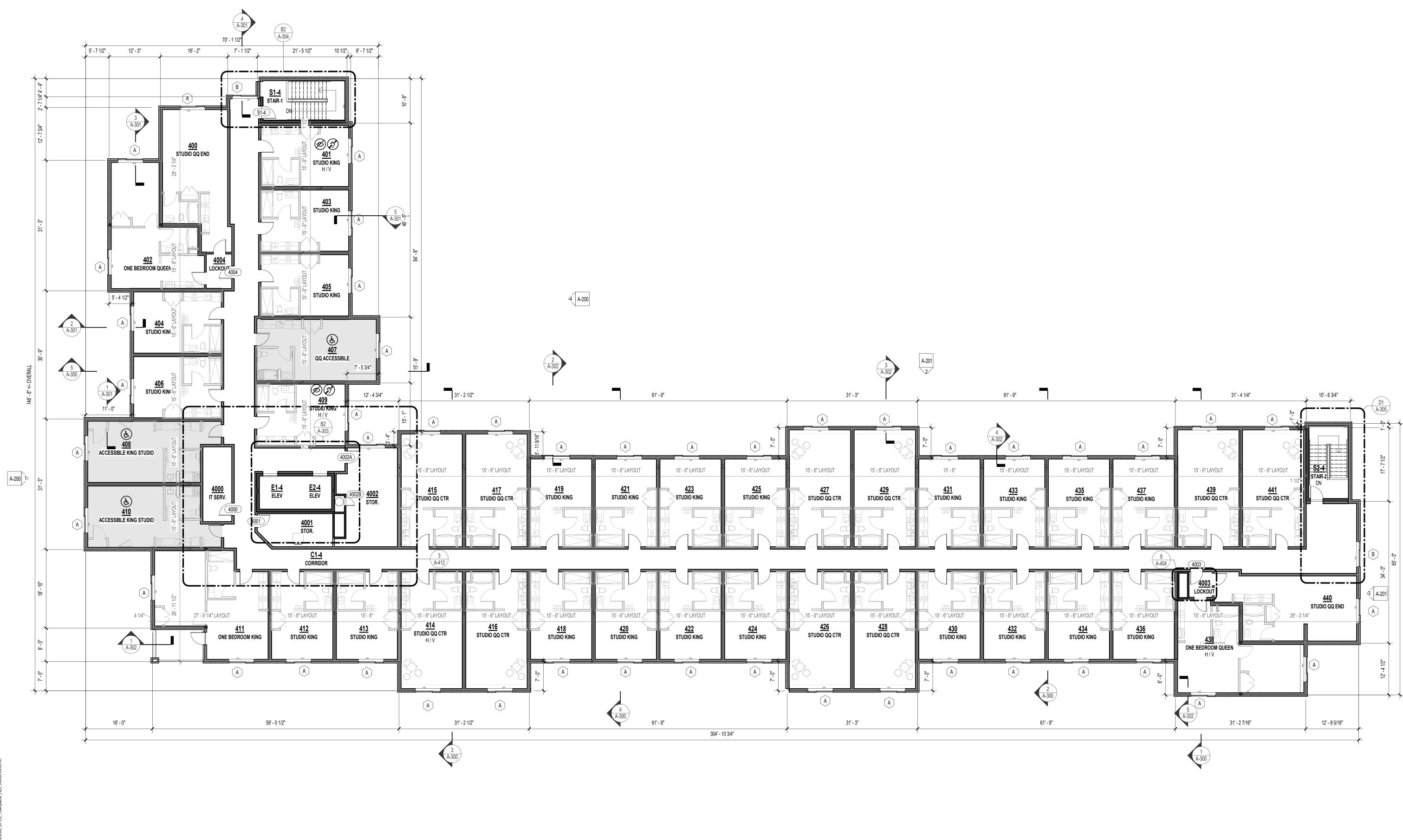


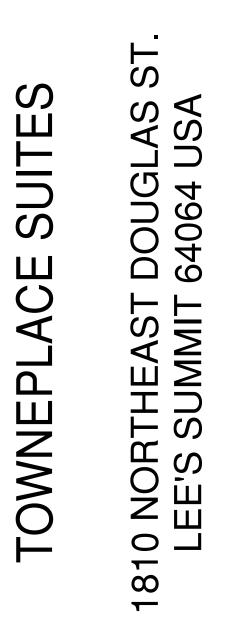
KEYNOTE LEGEND

VERIFY SHEET #'S

REFERENCE G-003 FOR GENERAL NOTES REFERENCE A-101 FOR PLAN LEGEND

REVISIONS:

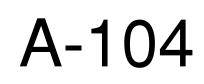




SHEET TITLE FOURTH FLOOR PLAN

PROJECT NUMBER: 23098

SHEET NUMBER:





OSemar & ASSO

llevard 64108

MO

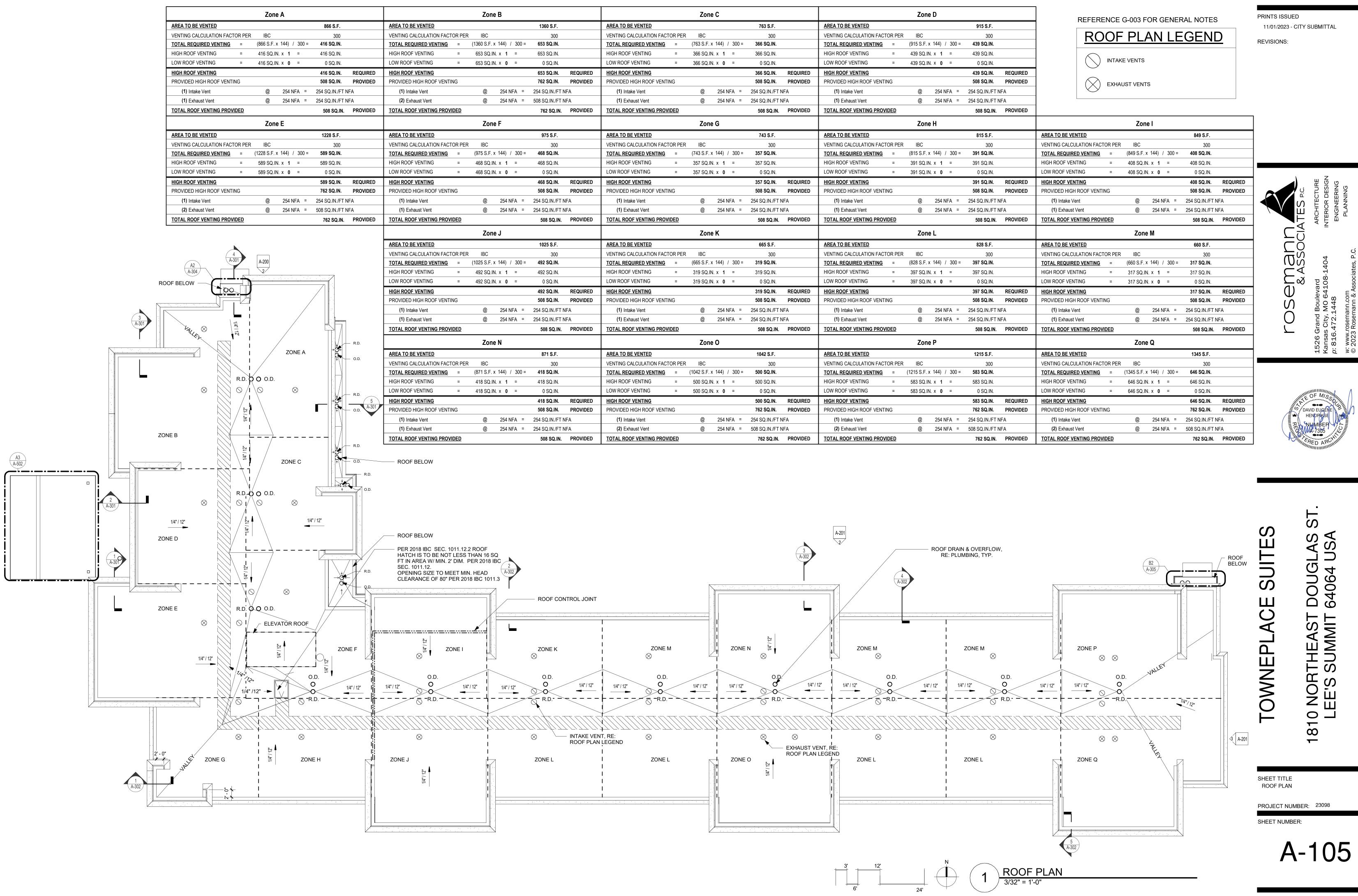
City 472.

KEYNOTE LEGEND

VERIFY SHEET #'S

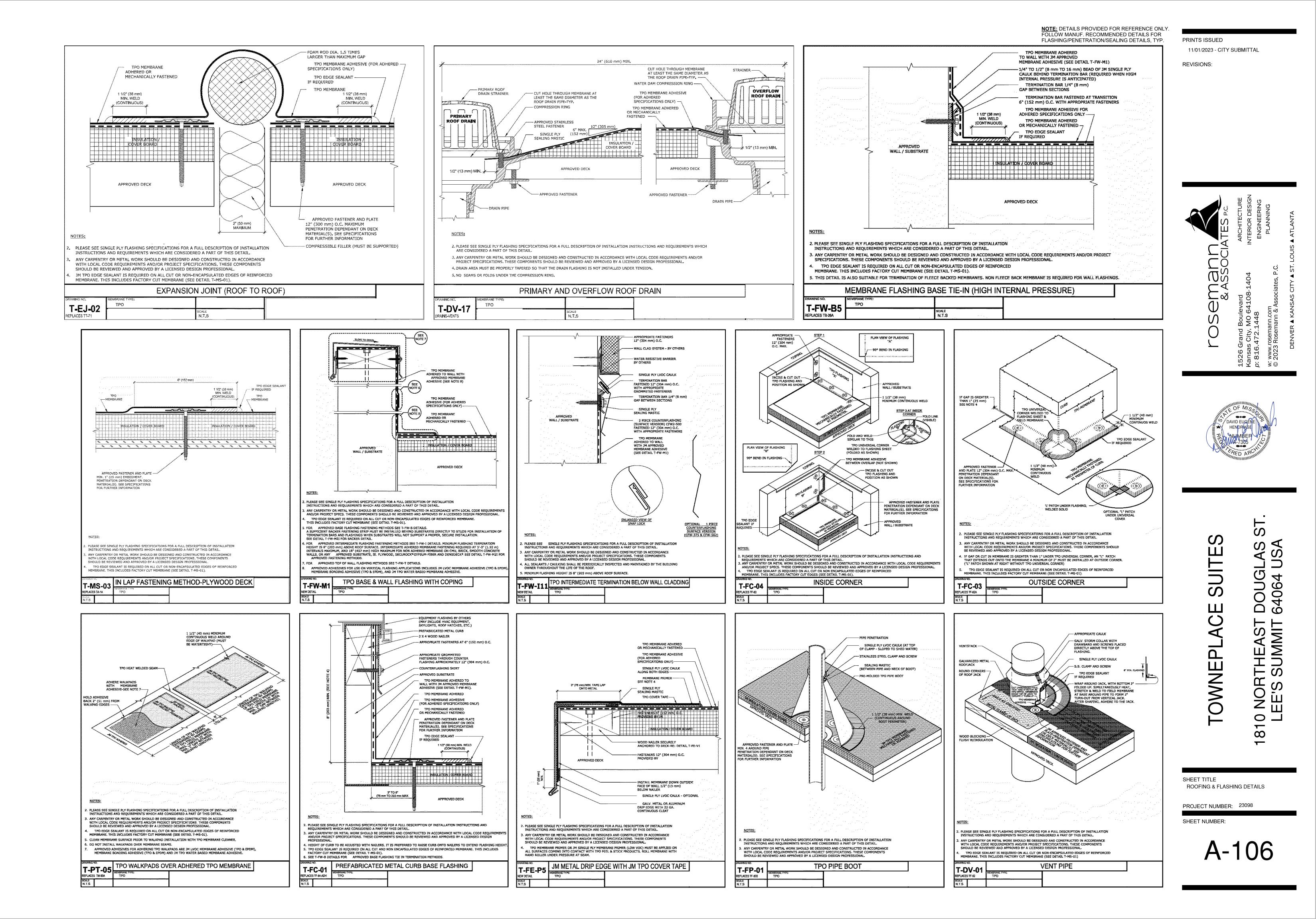
REFERENCE G-003 FOR GENERAL NOTES REFERENCE A-101 FOR PLAN LEGEND

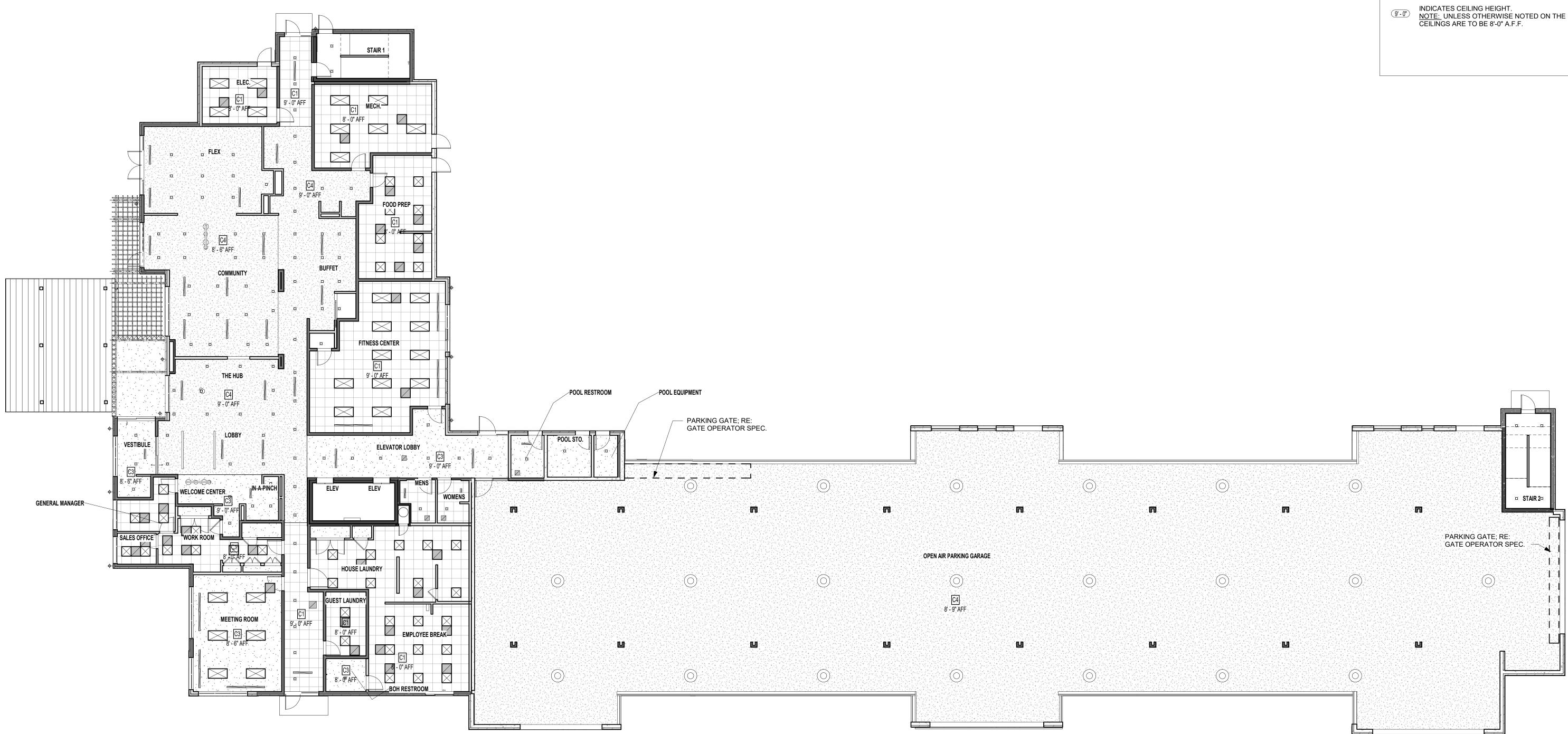
REVISIONS:



Zone B			7	
Eone B	Zone C	Zone D	REFERENCE G-003 FOR GENERAL NOTES	PRINTS ISSUED
1360 S.F.	AREA TO BE VENTED 763 S.F.	AREA TO BE VENTED 915 S.F.		11/01/2023 - CITY SUBMITTAL
PER IBC 300	VENTING CALCULATION FACTOR PER IBC 300	VENTING CALCULATION FACTOR PER IBC 300	ROOF PLAN LEGEND	
(1360 S.F. x 144) / 300 = 653 SQ.IN.	<u>TOTAL REQUIRED VENTING</u> = (763 S.F. x 144) / 300 = 366 SQ.IN.	TOTAL REQUIRED VENTING = (915 S.F. x 144) / 300 = 439 SQ.IN .		REVISIONS:
$653 \text{ SQ.IN. } \times 1 = 653 \text{ SQ.IN.}$	$HIGH ROOF VENTING = 366 SQ.IN. \times 1 = 366 SQ.IN.$	$HIGH ROOF VENTING = 439 SQ.IN. \times 1 = 439 SQ.IN.$		
$653 \text{ SQ.IN.} \times 0 = 0 \text{ SQ.IN.}$	$LOW ROOF VENTING = 366 SQ.IN. \times 0 = 0 SQ.IN.$	$LOW ROOF VENTING = 439 SQ.IN. \times 0 = 0 SQ.IN.$		
653 SQ.IN. REQ		HIGH ROOF VENTING439 SQ.IN.REQUIRED		
762 SQ.IN. PRO	PROVIDED HIGH ROOF VENTING 508 SQ.IN. PROVIDED	PROVIDED HIGH ROOF VENTING 508 SQ.IN. PROVIDED		
@ 254 NFA = 254 SQ.IN./FT NFA	(1) Intake Vent @ 254 NFA = 254 SQ.IN./FT NFA	(1) Intake Vent @ 254 NFA = 254 SQ.IN./FT NFA		
@ 254 NFA = 508 SQ.IN./FT NFA	(1) Exhaust Vent @ 254 NFA = 254 SQ.IN./FT NFA	(1) Exhaust Vent @ 254 NFA = 254 SQ.IN./FT NFA		
<u>2</u> 762 SQ.IN. PRO	TOTAL ROOF VENTING PROVIDED 508 SQ.IN. PROVIDED	TOTAL ROOF VENTING PROVIDED 508 SQ.IN. PROVIDED		
Zone F	Zone G	Zone H	Zone I	
975 S.F.	AREA TO BE VENTED 743 S.F.	AREA TO BE VENTED 815 S.F.	AREA TO BE VENTED 849 S.F.	
PER IBC 300	VENTING CALCULATION FACTOR PER IBC 300	VENTING CALCULATION FACTOR PER IBC 300	VENTING CALCULATION FACTOR PER IBC 300	
(975 S.F. x 144) / 300 = 468 SQ.IN.	TOTAL REQUIRED VENTING = (743 S.F. x 144) / 300 = 357 SQ.IN.	TOTAL REQUIRED VENTING = (815 S.F. x 144) / 300 = 391 SQ.IN.	TOTAL REQUIRED VENTING = (849 S.F. x 144) / 300 = 408 SQ.IN.	
468 SQ.IN. x 1 = 468 SQ.IN.	HIGH ROOF VENTING = 357 SQ.IN. x 1 = 357 SQ.IN.	HIGH ROOF VENTING = 391 SQ.IN. x 1 = 391 SQ.IN.	HIGH ROOF VENTING = 408 SQ.IN. x 1 = 408 SQ.IN.	
468 SQ.IN. x 0 = 0 SQ.IN.	LOW ROOF VENTING = $357 \text{ SQ.IN. x } 0 = 0 \text{ SQ.IN.}$	LOW ROOF VENTING = $391 \text{ SQ.IN. x } 0 = 0 \text{ SQ.IN.}$	LOW ROOF VENTING = $408 \text{ SQ.IN. } \times 0 = 0 \text{ SQ.IN.}$	
468 SQ.IN. REQ	HIGH ROOF VENTING357 SQ.IN.REQUIRED	HIGH ROOF VENTING 391 SQ.IN. REQUIRED	HIGH ROOF VENTING 408 SQ.IN. REQUIRED	ES P.C. HITECTURE IOR DESIGN SINEERING ANNING
508 SQ.IN. PRO	PROVIDED HIGH ROOF VENTING508 SQ.IN.PROVIDED	PROVIDED HIGH ROOF VENTING 508 SQ.IN. PROVIDED	PROVIDED HIGH ROOF VENTING 508 SQ.IN. PROVIDED	
@ 254 NFA = 254 SQ.IN./FT NFA	(1) Intake Vent @ 254 NFA = 254 SQ.IN./FT NFA	(1) Intake Vent @ 254 NFA = 254 SQ.IN./FT NFA	(1) Intake Vent @ 254 NFA = 254 SQ.IN./FT NFA	ARCHITECT ARCHITECT TERIOR DE ENGINEER PLANNIN
@ 254 NFA = 254 SQ.IN./FT NFA	(1) Exhaust Vent @ 254 NFA = 254 SQ.IN./FT NFA	(1) Exhaust Vent @ 254 NFA = 254 SQ.IN./FT NFA	(1) Exhaust Vent @ 254 NFA = 254 SQ.IN./FT NFA	
2 508 SQ.IN. PRO	TOTAL ROOF VENTING PROVIDED 508 SQ.IN. PROVIDED	TOTAL ROOF VENTING PROVIDED508 SQ.IN.PROVIDED	TOTAL ROOF VENTING PROVIDED508 SQ.IN.PROVIDED	
Zone J	Zone K	Zone L	Zone M	$\Box \Delta$
1025 S.F.	AREA TO BE VENTED 665 S.F.	AREA TO BE VENTED 828 S.F.	AREA TO BE VENTED 660 S.F.	ΓÕ
PER IBC 300	AREA TO BE VENTED 665 S.F. VENTING CALCULATION FACTOR PER IBC 300	AREA TO BE VENTED 828 S.F. VENTING CALCULATION FACTOR PER IBC 300	AREA TO BE VENTED 660 S.F. VENTING CALCULATION FACTOR PER IBC 300	
				404 SSO
PER IBC 300	VENTING CALCULATION FACTOR PER IBC 300	VENTING CALCULATION FACTOR PER IBC 300	VENTING CALCULATION FACTOR PER IBC 300	ASSO 1404
PER IBC 300 (1025 S.F. x 144) / 300 = 492 SQ.IN.	VENTING CALCULATION FACTOR PER IBC 300 TOTAL REQUIRED VENTING = (665 S.F. x 144) / 300 = 319 SQ.IN.	VENTING CALCULATION FACTOR PER IBC 300 TOTAL REQUIRED VENTING = (828 S.F. x 144) / 300 = 397 SQ.IN.	VENTING CALCULATION FACTOR PER IBC 300 TOTAL REQUIRED VENTING = (660 S.F. x 144) / 300 = 317 SQ.IN.	& ASSO ard 108-1404
PER IBC 300 (1025 S.F. x 144) / 300 = 492 SQ.IN. 492 SQ.IN. x 1 = 492 SQ.IN. 492 SQ.IN. x 0 = 0 SQ.IN. 492 SQ.IN. x 0 = 0 SQ.IN. 492 SQ.IN. x 0 = 0 SQ.IN.	VENTING CALCULATION FACTOR PER IBC 300 TOTAL REQUIRED VENTING = (665 S.F. x 144) / 300 = 319 SQ.IN. HIGH ROOF VENTING = 319 SQ.IN. x 1 = 319 SQ.IN. LOW ROOF VENTING = 319 SQ.IN. x 0 = 0 SQ.IN. HIGH ROOF VENTING = 319 SQ.IN. x 1 = 319 SQ.IN. HIGH ROOF VENTING = 319 SQ.IN. x 0 = 0 SQ.IN.	VENTING CALCULATION FACTOR PER IBC 300 TOTAL REQUIRED VENTING = (828 S.F. x 144) / 300 = 397 SQ.IN. HIGH ROOF VENTING = 397 SQ.IN. x 1 = 397 SQ.IN. LOW ROOF VENTING = 397 SQ.IN. x 0 = 0 SQ.IN. HIGH ROOF VENTING = 397 SQ.IN. x 0 = 0 SQ.IN. HIGH ROOF VENTING = 397 SQ.IN. x 0 = 397 SQ.IN.	VENTING CALCULATION FACTOR PER IBC 300 TOTAL REQUIRED VENTING = (660 S.F. x 144) / 300 = 317 SQ.IN. HIGH ROOF VENTING = 317 SQ.IN. x 1 = 317 SQ.IN. LOW ROOF VENTING = 317 SQ.IN. x 0 = 0 SQ.IN. HIGH ROOF VENTING = 317 SQ.IN. x 0 = 0 SQ.IN.	& ASSO ard 108-1404
PER IBC 300 (1025 S.F. x 144) / 300 = 492 SQ.IN. 492 SQ.IN. x 1 = 492 SQ.IN. 492 SQ.IN. x 0 = 0 SQ.IN.	VENTING CALCULATION FACTOR PER IBC 300 TOTAL REQUIRED VENTING = (665 S.F. x 144) / 300 = 319 SQ.IN. HIGH ROOF VENTING = 319 SQ.IN. x 1 = 319 SQ.IN. LOW ROOF VENTING = 319 SQ.IN. x 0 = 0 SQ.IN. HIGH ROOF VENTING = 319 SQ.IN. x 1 = 319 SQ.IN. HIGH ROOF VENTING = 319 SQ.IN. x 0 = 0 SQ.IN.	VENTING CALCULATION FACTOR PER IBC 300 TOTAL REQUIRED VENTING = (828 S.F. x 144) / 300 = 397 SQ.IN. HIGH ROOF VENTING = 397 SQ.IN. x 1 = 397 SQ.IN. LOW ROOF VENTING = 397 SQ.IN. x 0 = 0 SQ.IN.	VENTING CALCULATION FACTOR PER IBC 300 TOTAL REQUIRED VENTING = (660 S.F. x 144) / 300 = 317 SQ.IN. HIGH ROOF VENTING = 317 SQ.IN. x 1 = 317 SQ.IN. LOW ROOF VENTING = 317 SQ.IN. x 0 = 0 SQ.IN.	& ASSO ard 108-1404
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8'

32'



 (\square)

REFERENCE G-003 FOR GENERAL NOTES REFERENCE A-120 FOR RCP LEGEND

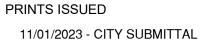
RCP LEGEND

C1 - 2' X 2' ACT SYSTEM

C3 - GWB ON UNDERSIDE OF TRUSS ASSEMBLY FOR FIRE RATING

C4 - EXTERIOR GWD ON METAL STUD

INDICATES CEILING HEIGHT. <u>NOTE:</u> UNLESS OTHERWISE NOTED ON THE PLANS ALL CEILINGS ARE TO BE 8'-0" A.F.F.



REVISIONS:



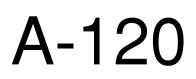


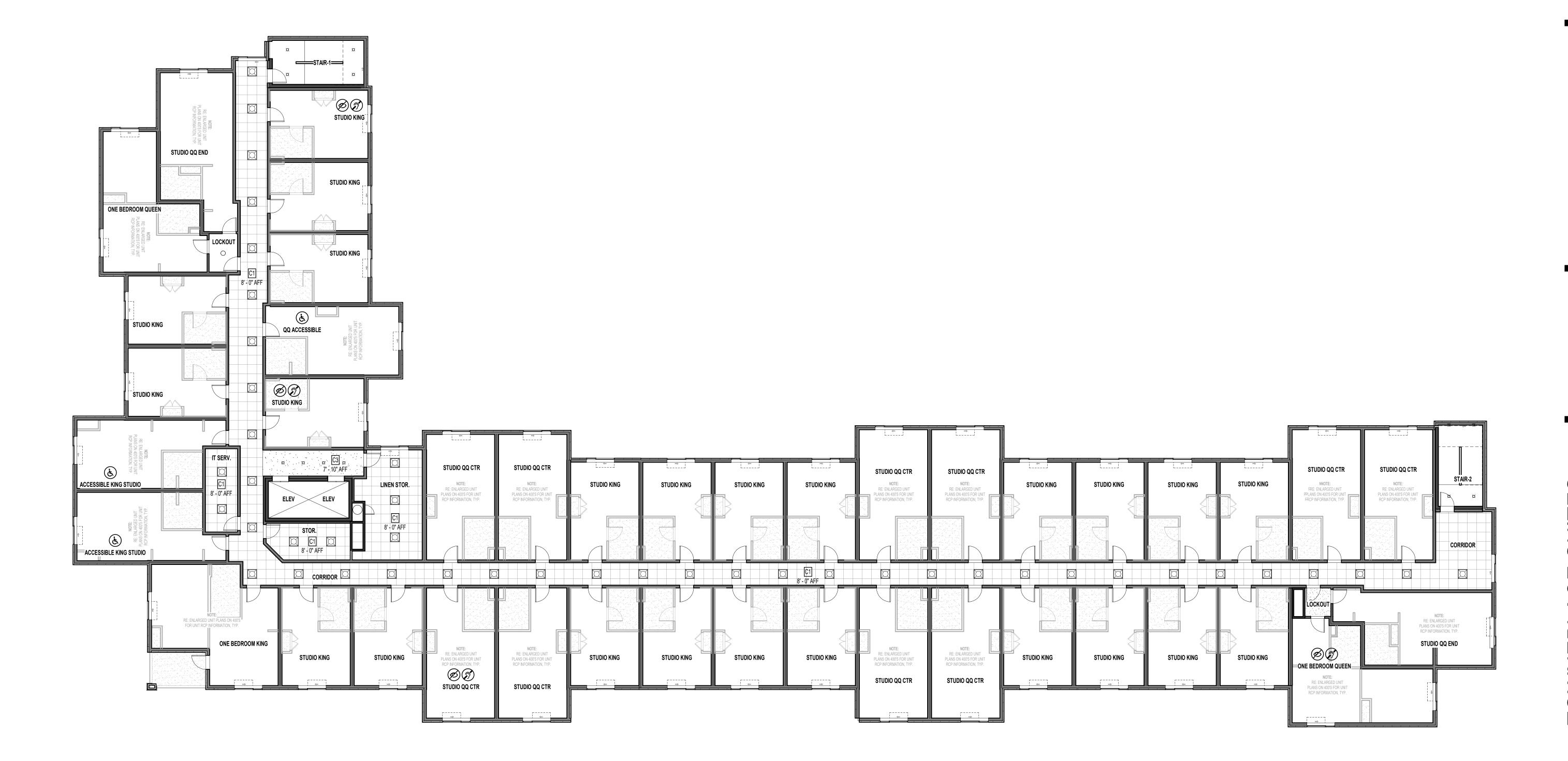
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SUITES 1810 NORTHEAST DOUGLAS LEE'S SUMMIT 64064 USA ACE TOWNEPL

SHEET TITLE FIRST FLOOR REFLECTED CEILING PLAN

PROJECT NUMBER: 23098





4' <u>16'</u> 8'

-

32'



REFERENCE G-003 FOR GENERAL NOTES REFERENCE A-120 FOR RCP LEGEND

PRINTS ISSUED 11/01/2023 - CITY SUBMITTAL **REVISIONS**:

DSemar & ASSO llevard 64108 MO City, 172. 4 X Ø David Eug ST. ACE SUITES DOUGLAS 64064 USA 1810 NORTHEAST LEE'S SUMMIT TOWNEPL

SHEET TITLE SECOND FLOOR REFLECTED CEILING PLAN

PROJECT NUMBER: 23098





4' <u>16'</u> 8'



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PRINTS ISSUED 11/01/2023 - CITY SUBMITTAL

VERIFY SHEET #'S

REFERENCE G-003 FOR GENERAL NOTES REFERENCE A-120 FOR RCP LEGEND

KEYNOTE LEGEND

REVISIONS:

1810 NORTHEAST DOUGLAS LEE'S SUMMIT 64064 USA

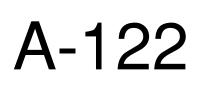
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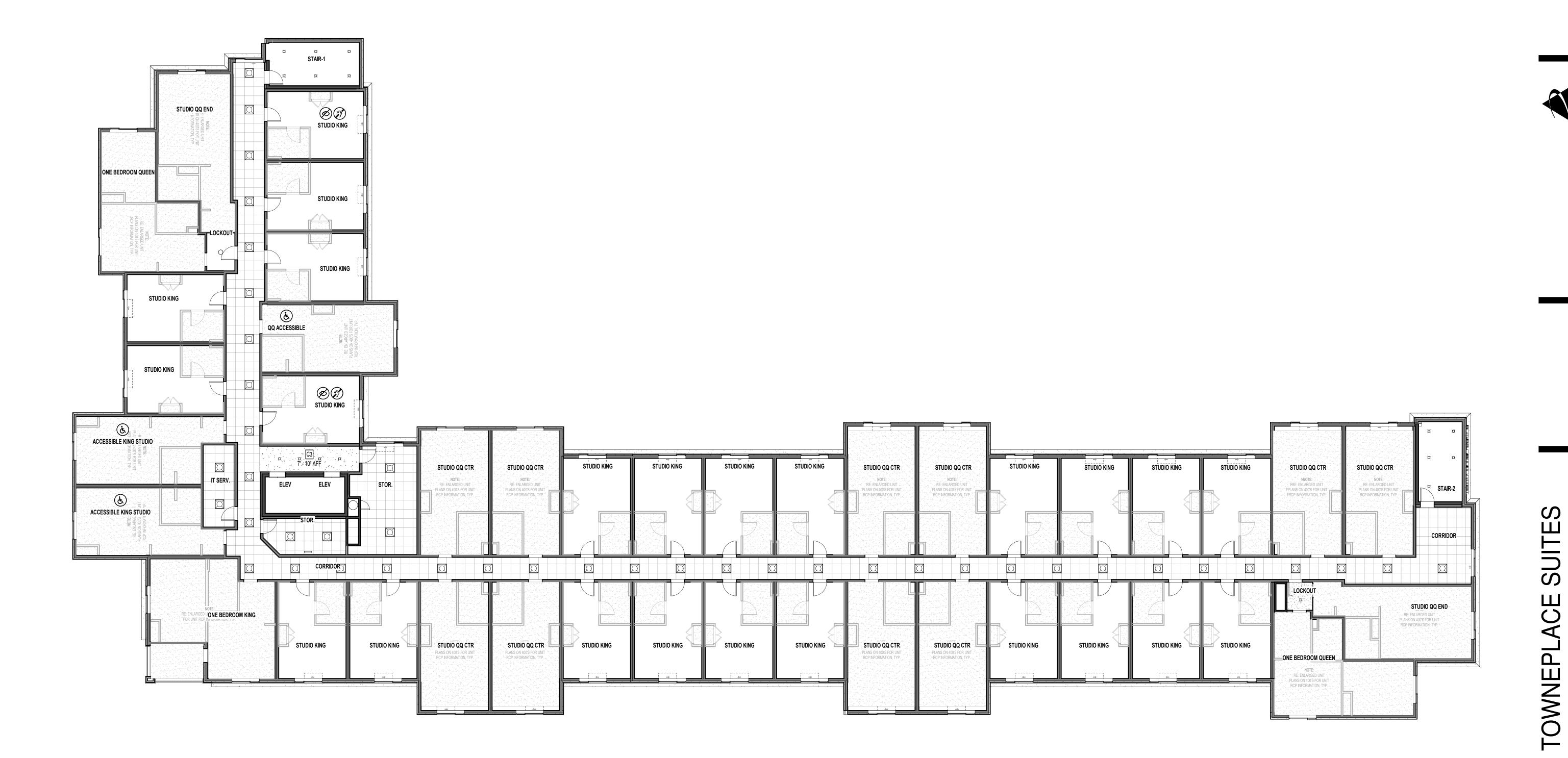
ACE SUITES

TOWNEPL

SHEET TITLE THIRD FLOOR REFLECTED CEILING PLAN

PROJECT NUMBER: 23098





4'

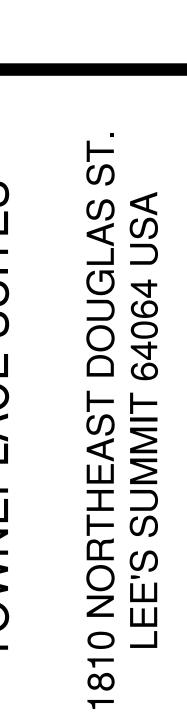
8'

16'

32'



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SHEET TITLE FOURTH FLOOR REFLECTED CEILING PLAN

PROJECT NUMBER: 23098

A-123

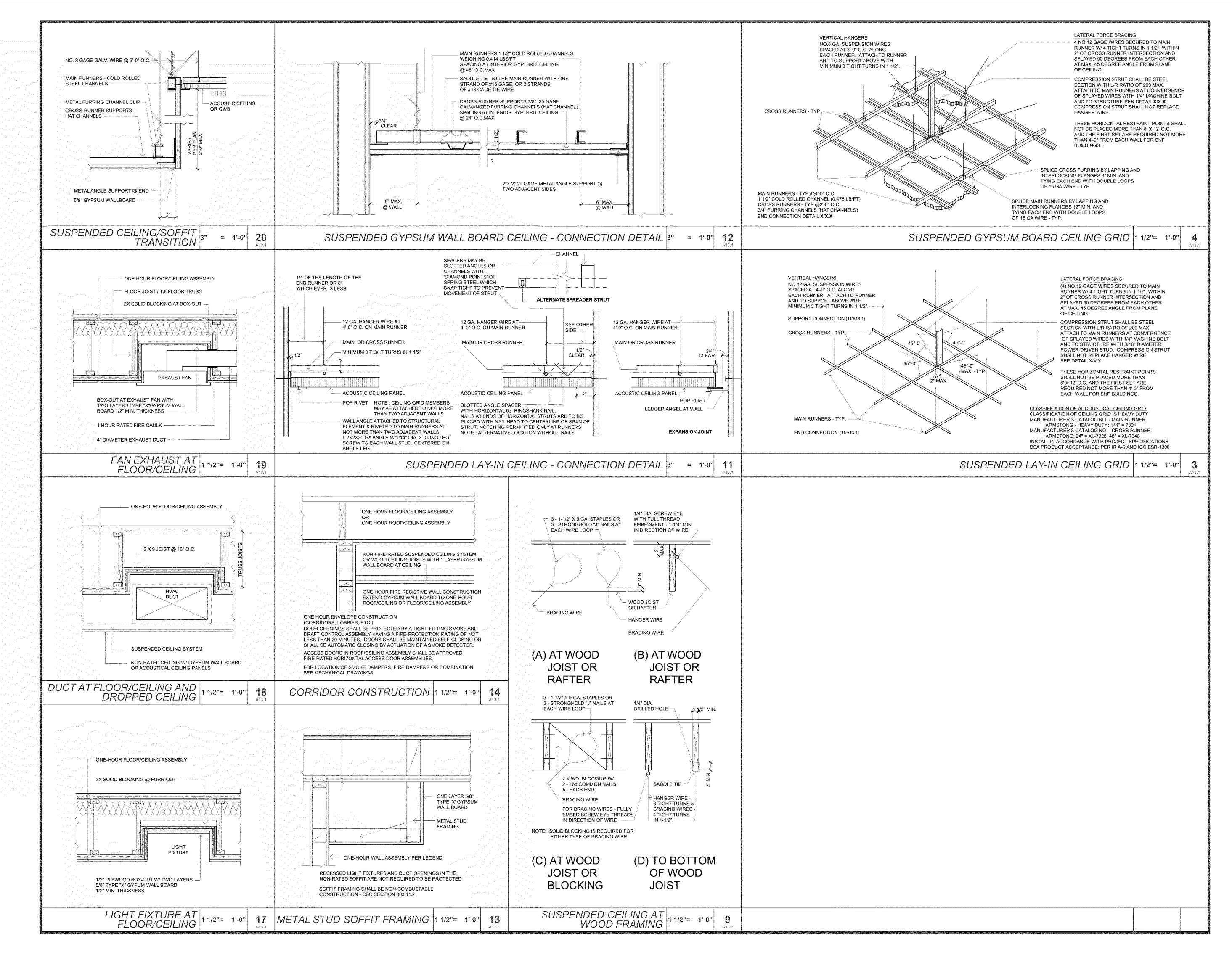
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REFERENCE G-003 FOR GENERAL NOTES REFERENCE A-120 FOR RCP LEGEND

REVISIONS:



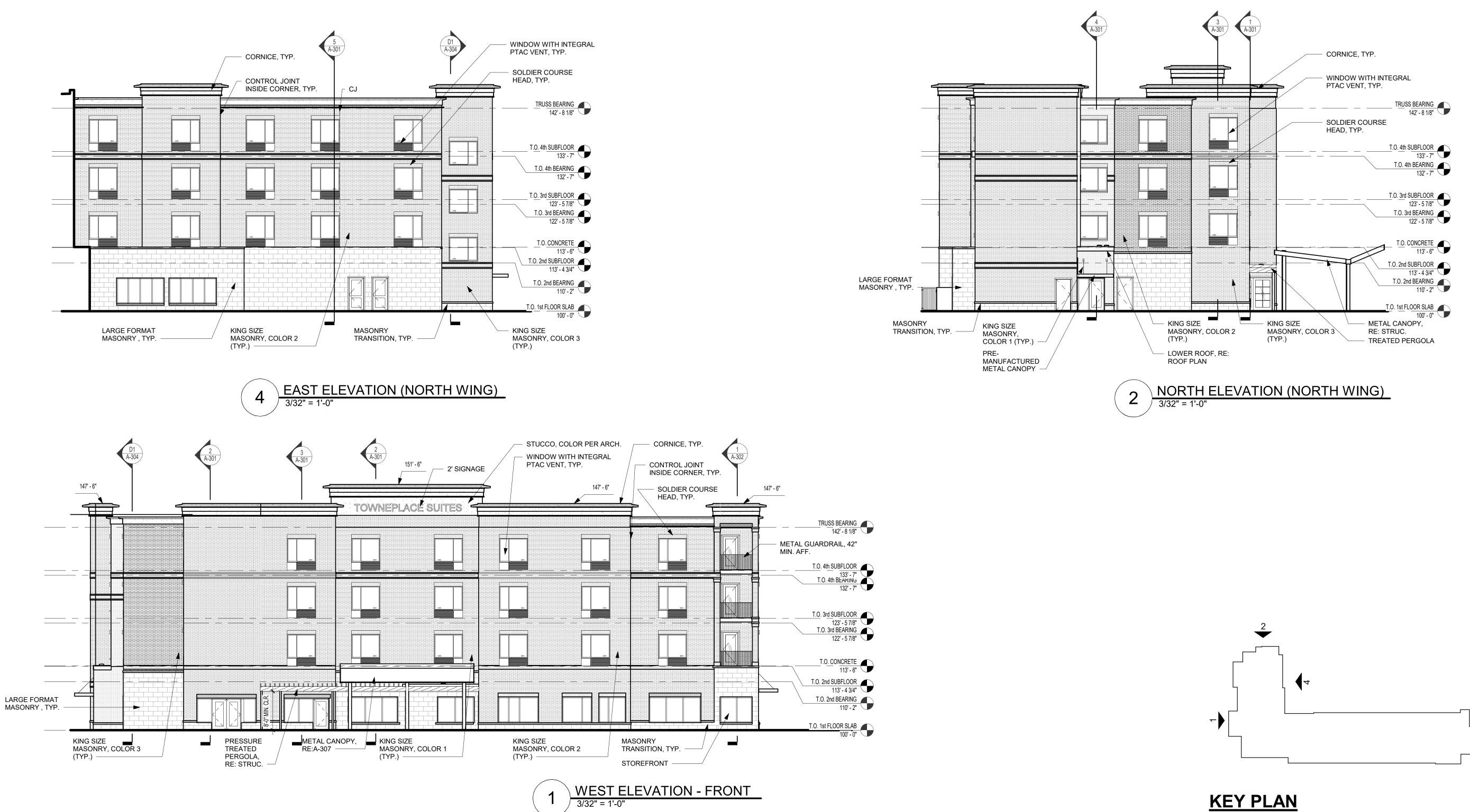
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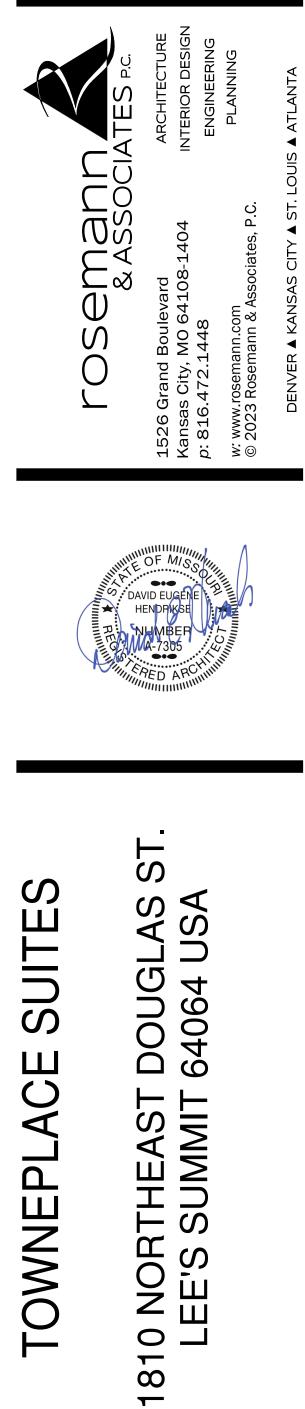


11/01/2023 - CITY SUBMITTAL REVISIONS:

PRINTS ISSUED



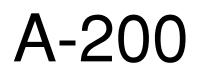
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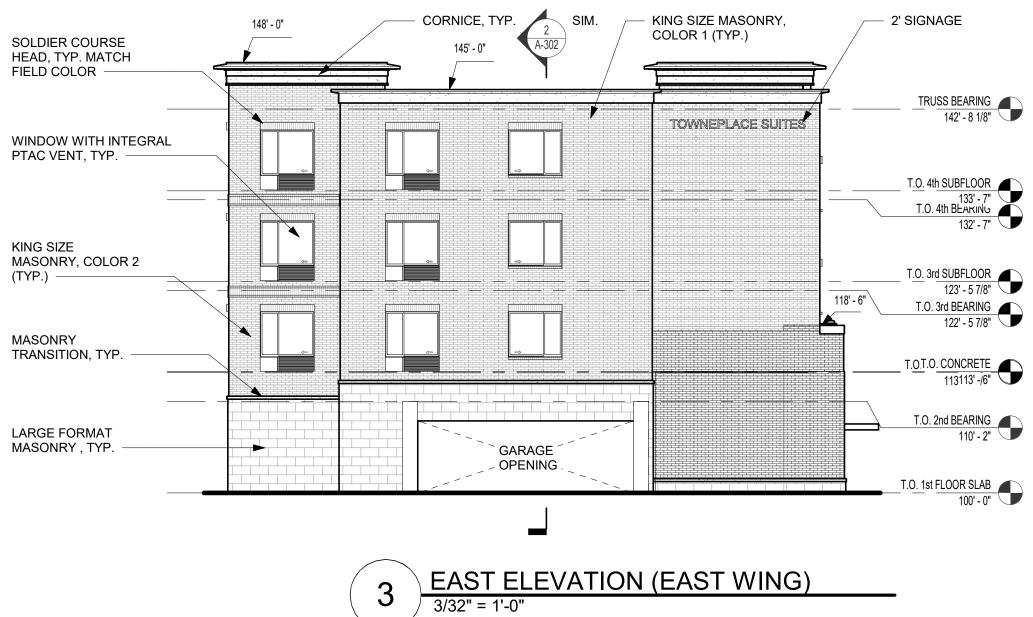


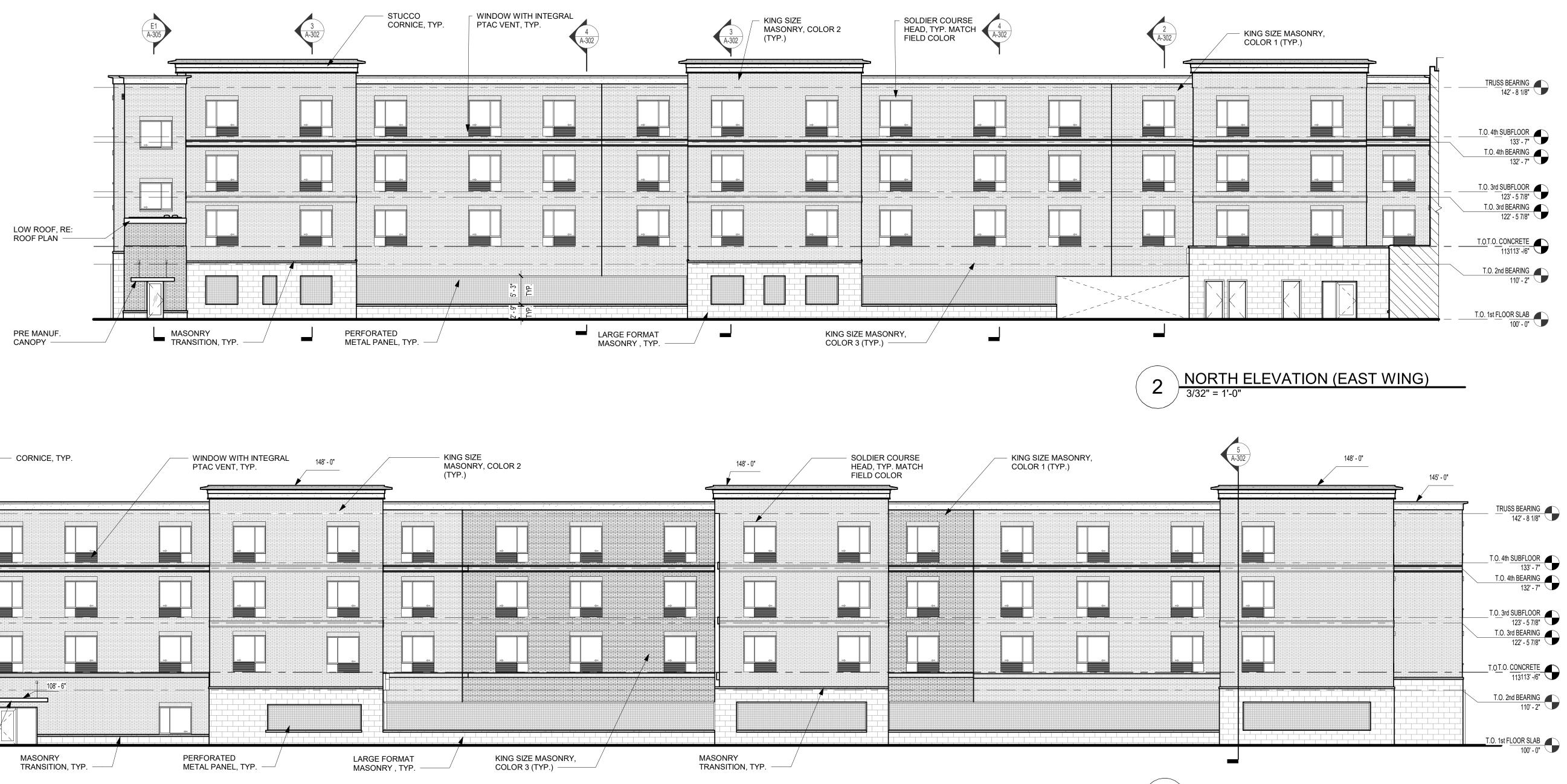
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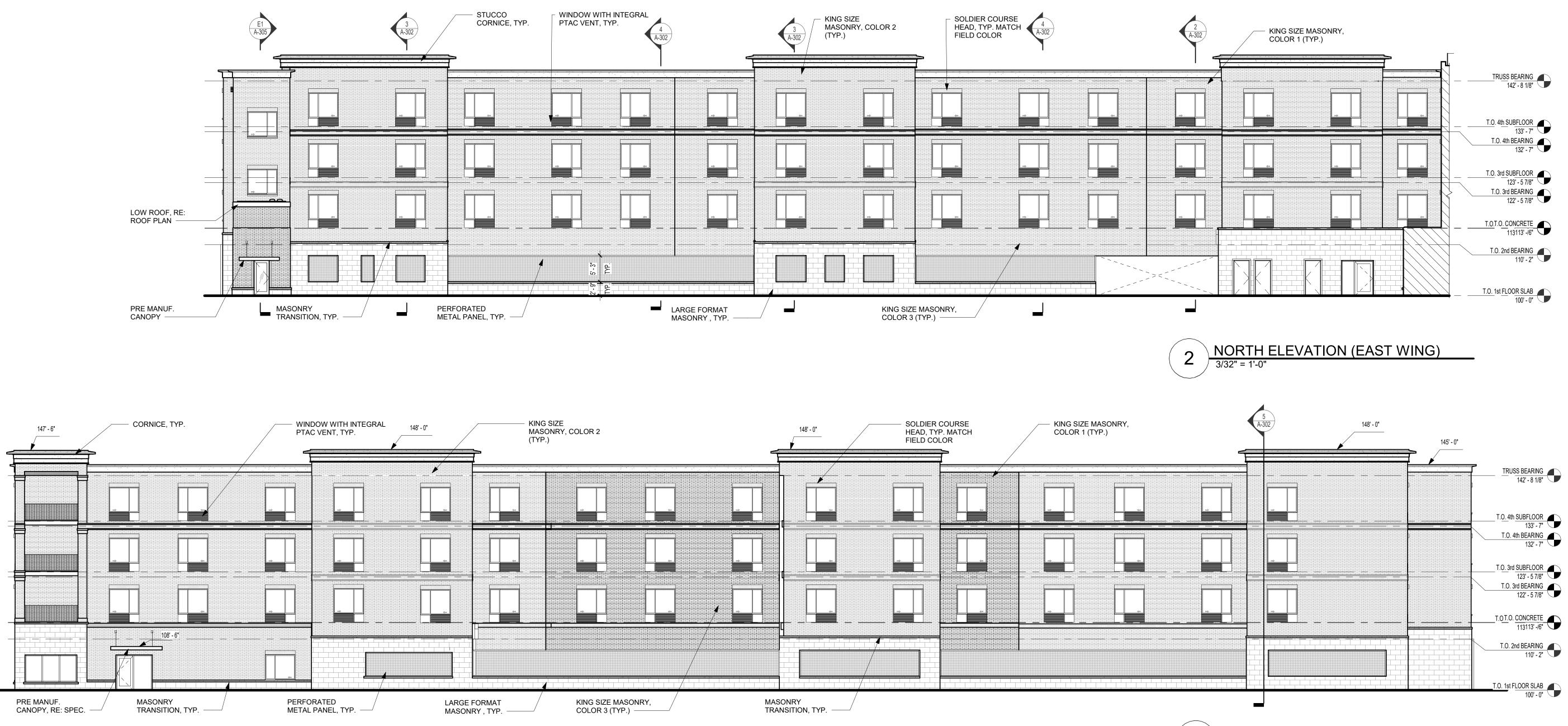
EXTERIOR ELEVATIONS

PROJECT NUMBER: 23098



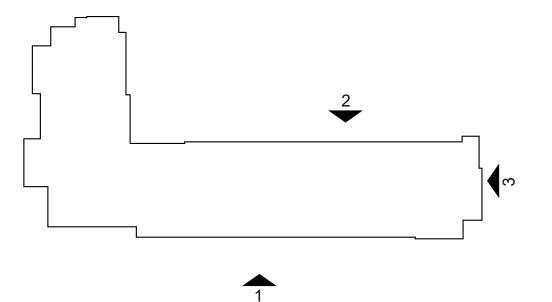












KEYNOTE LEGEND

REFERENCE G-003 FOR GENERAL NOTES REFERENCE A-200 FOR MATERIALS LEGEND

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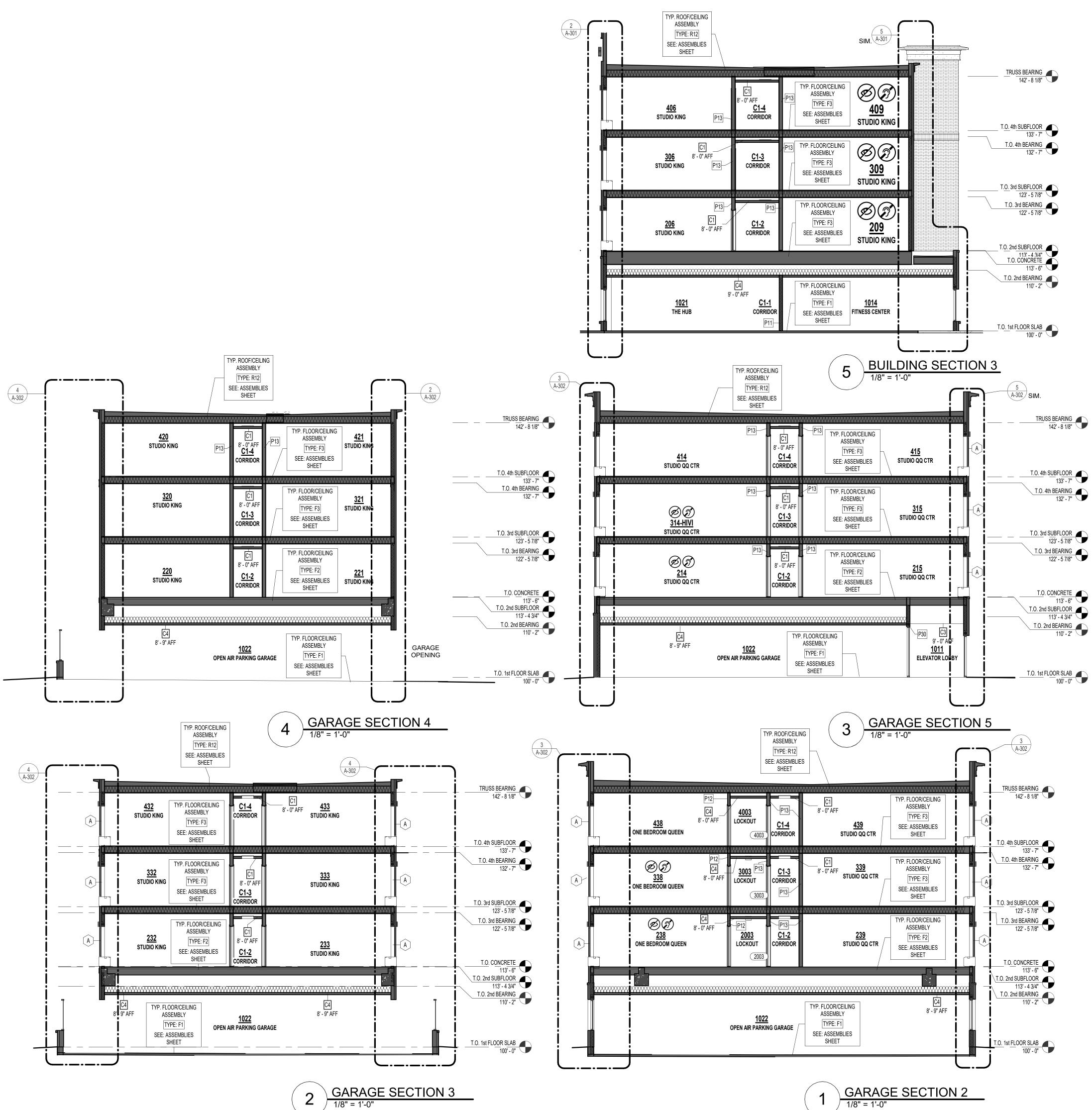
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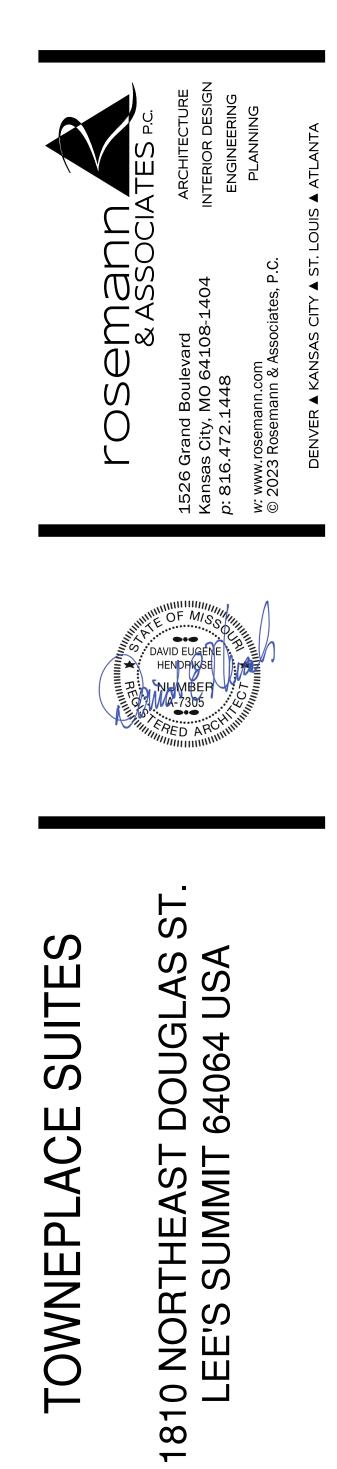
EXTERIOR ELEVATIONS

PROJECT NUMBER: 23098

REVISIONS:



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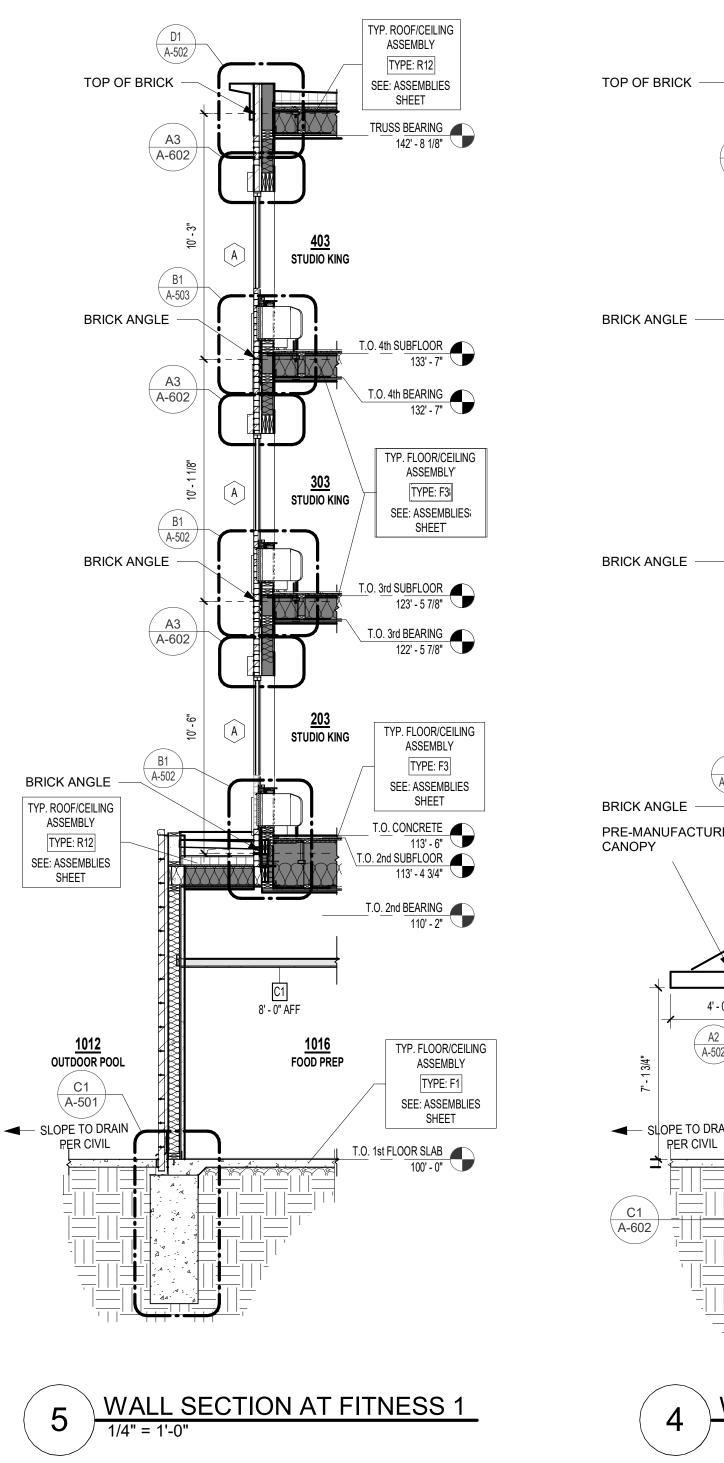


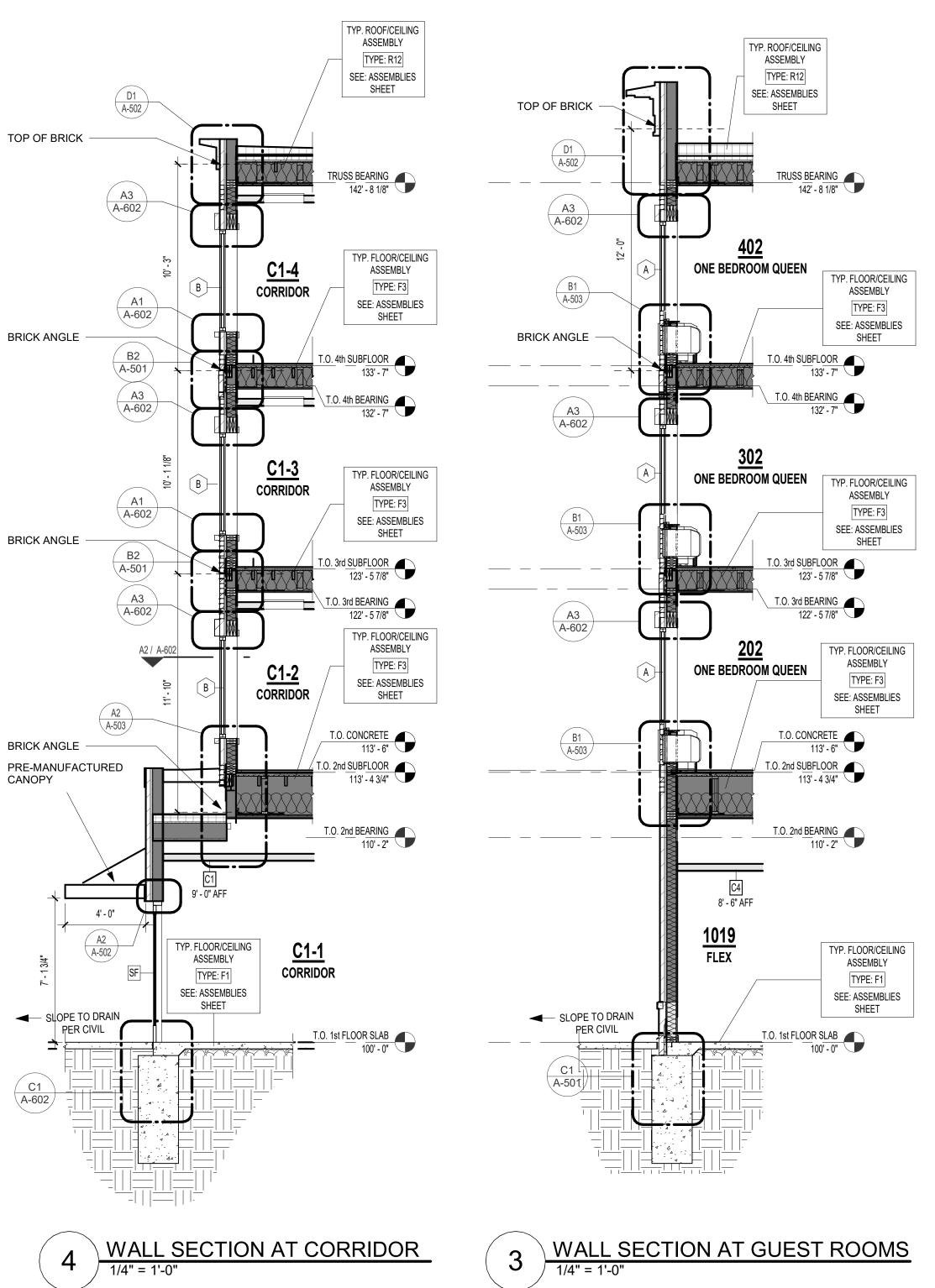
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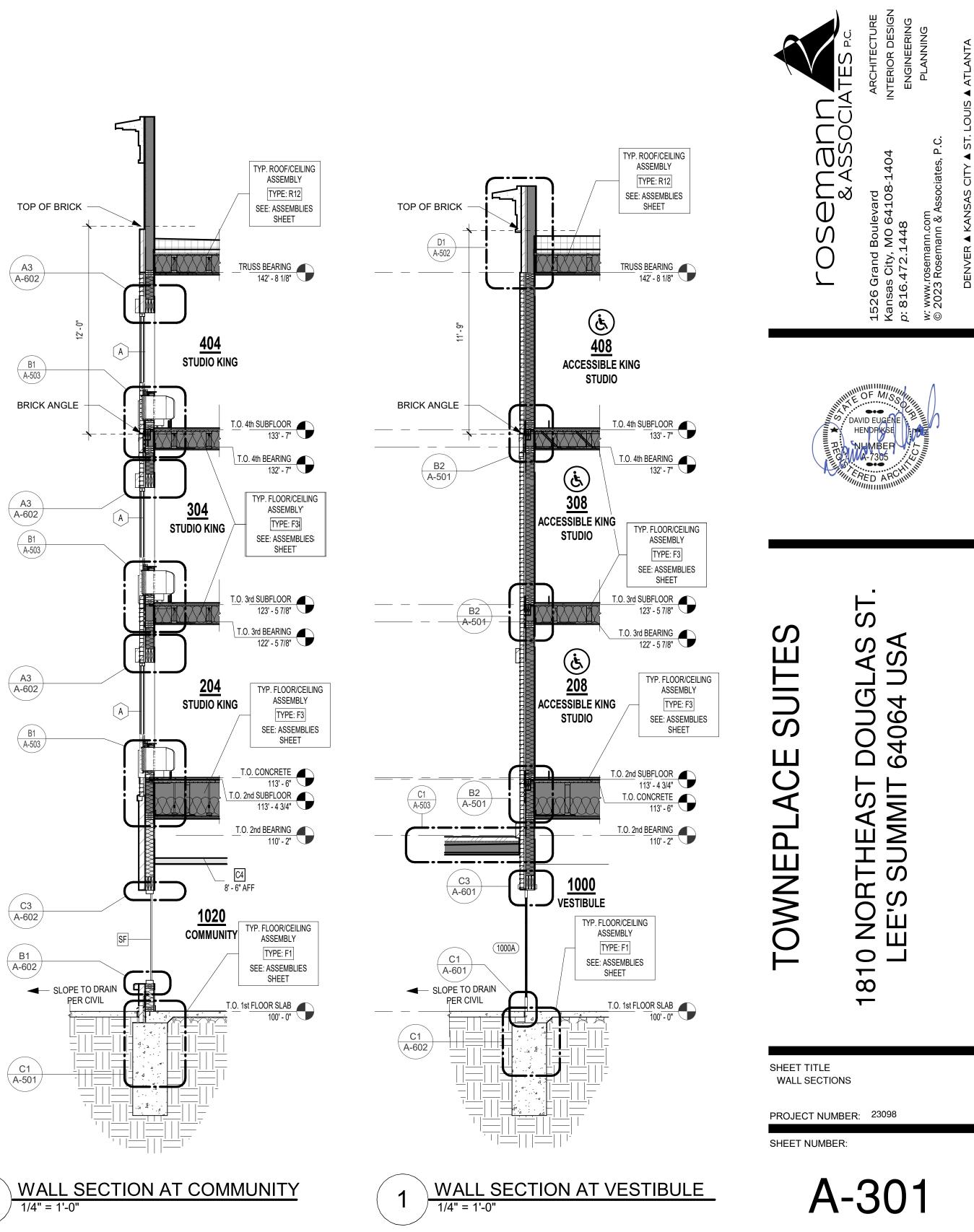
BUILDING SECTIONS

PROJECT NUMBER: 23098







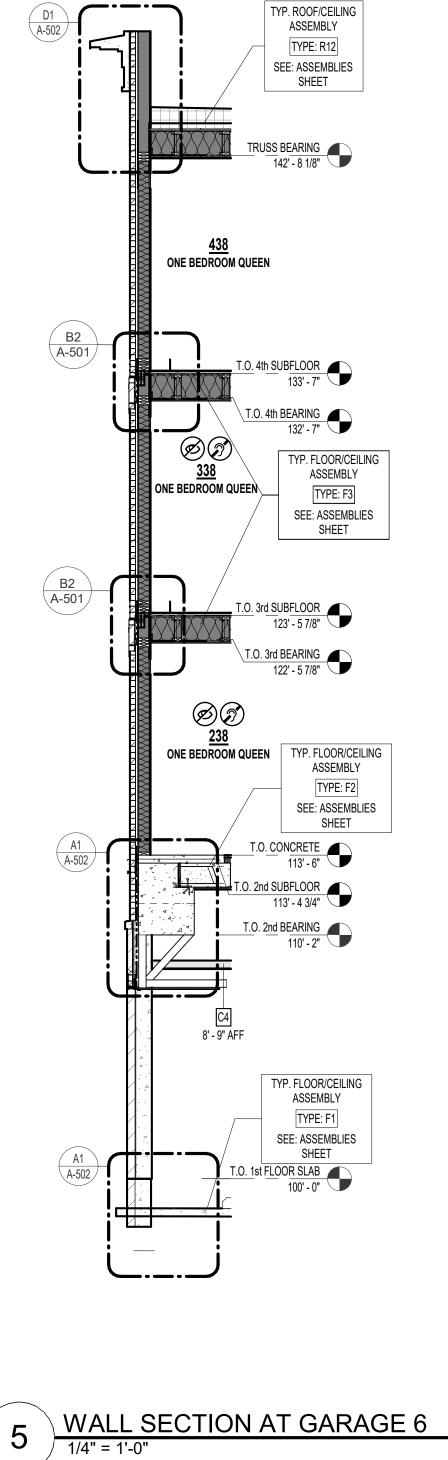


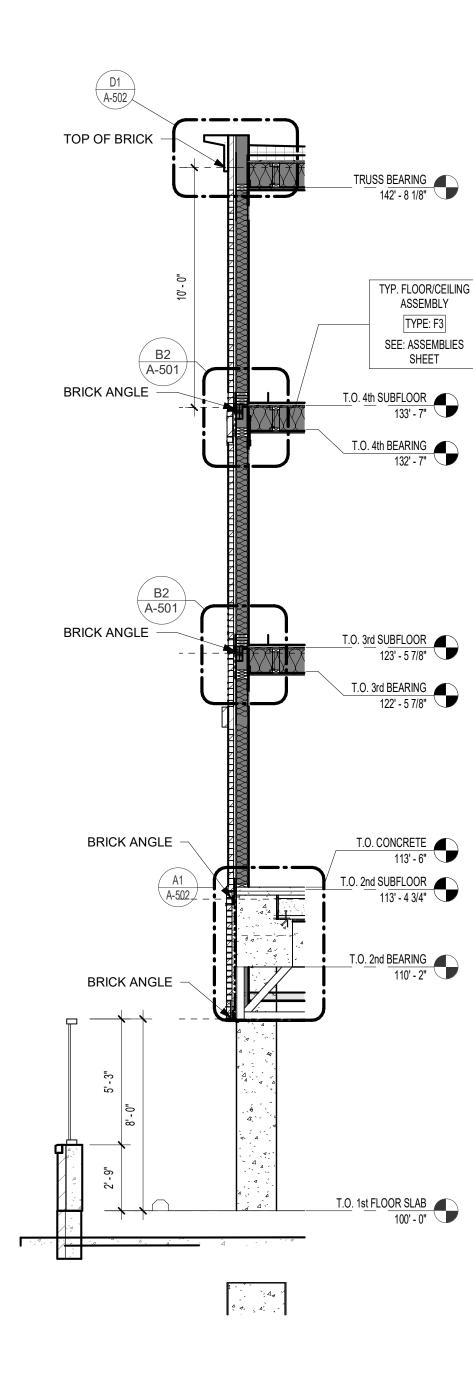
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REFERENCE G-003 FOR GENERAL NOTES

REVISIONS:





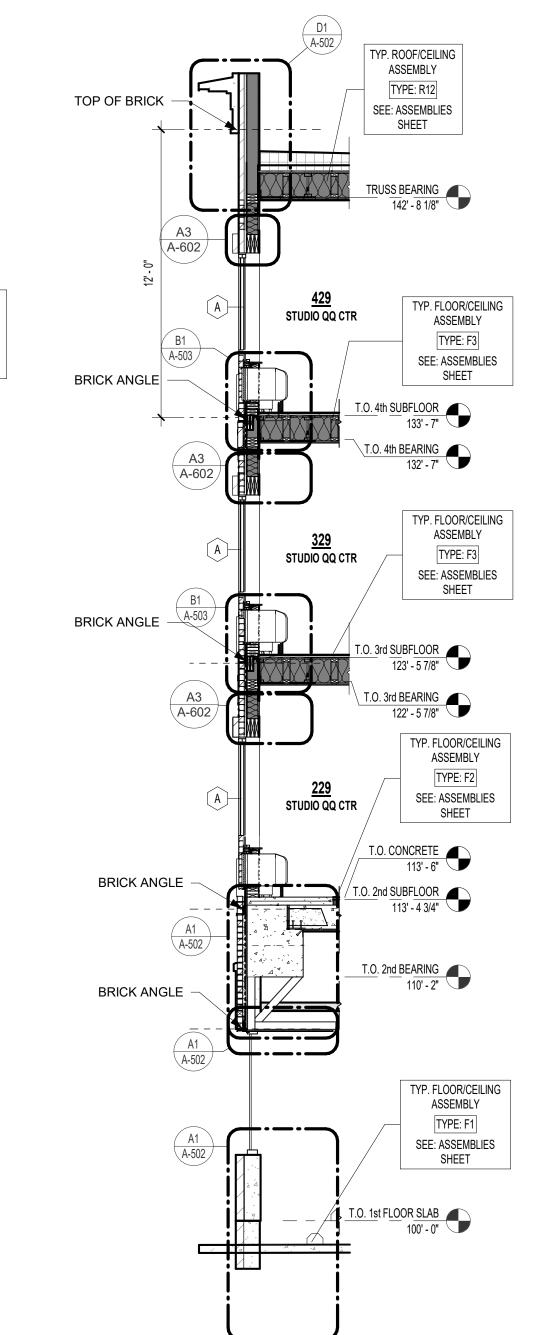
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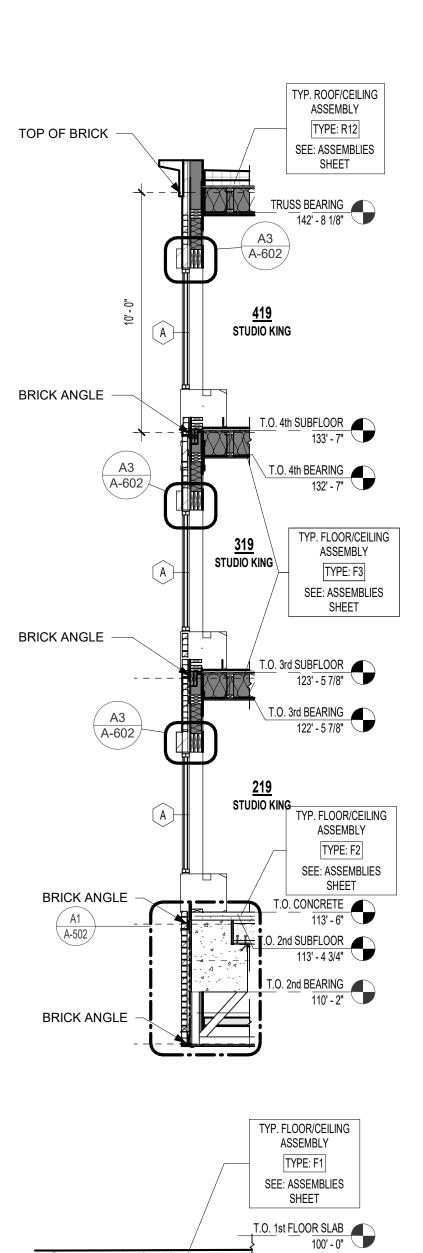
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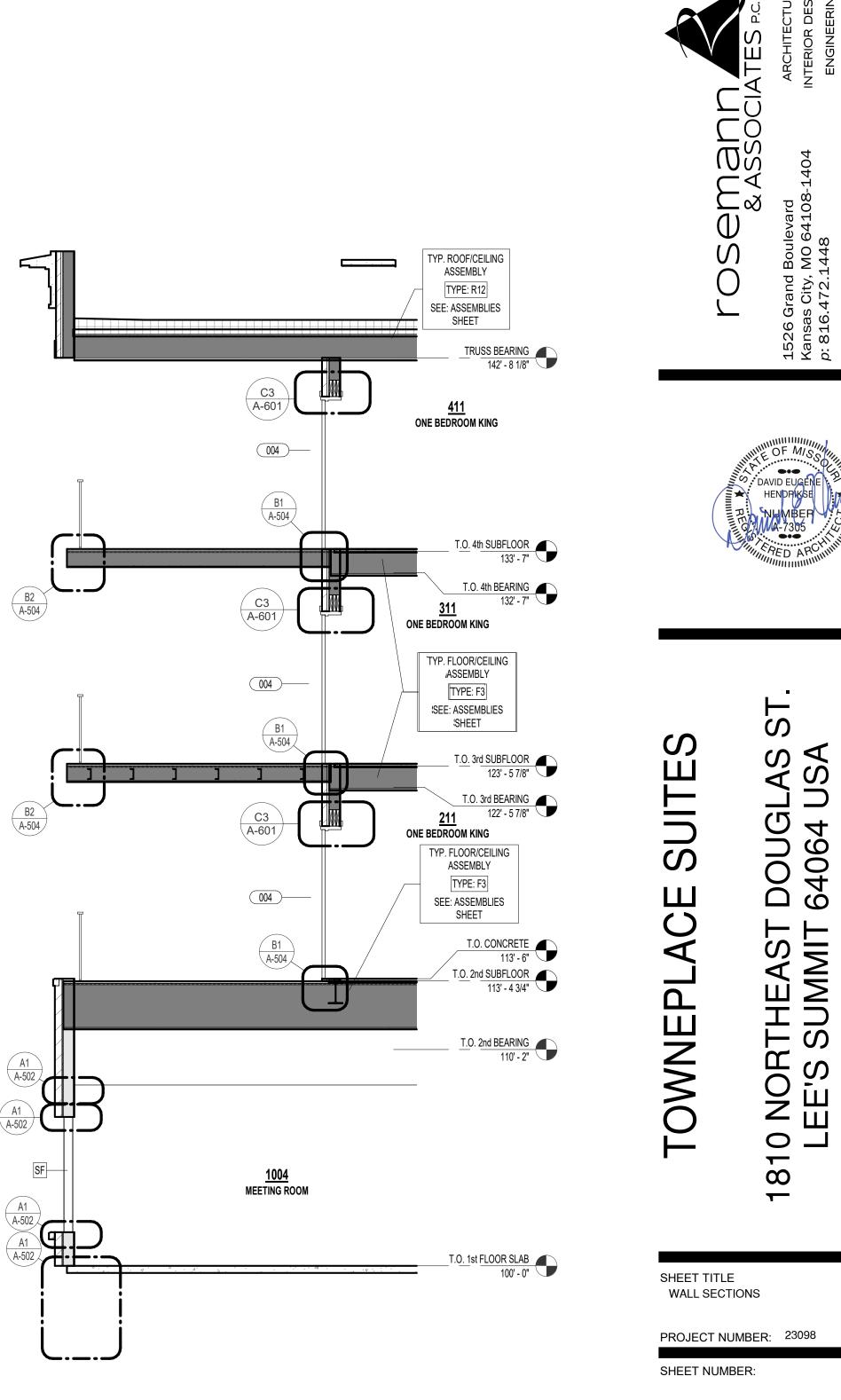
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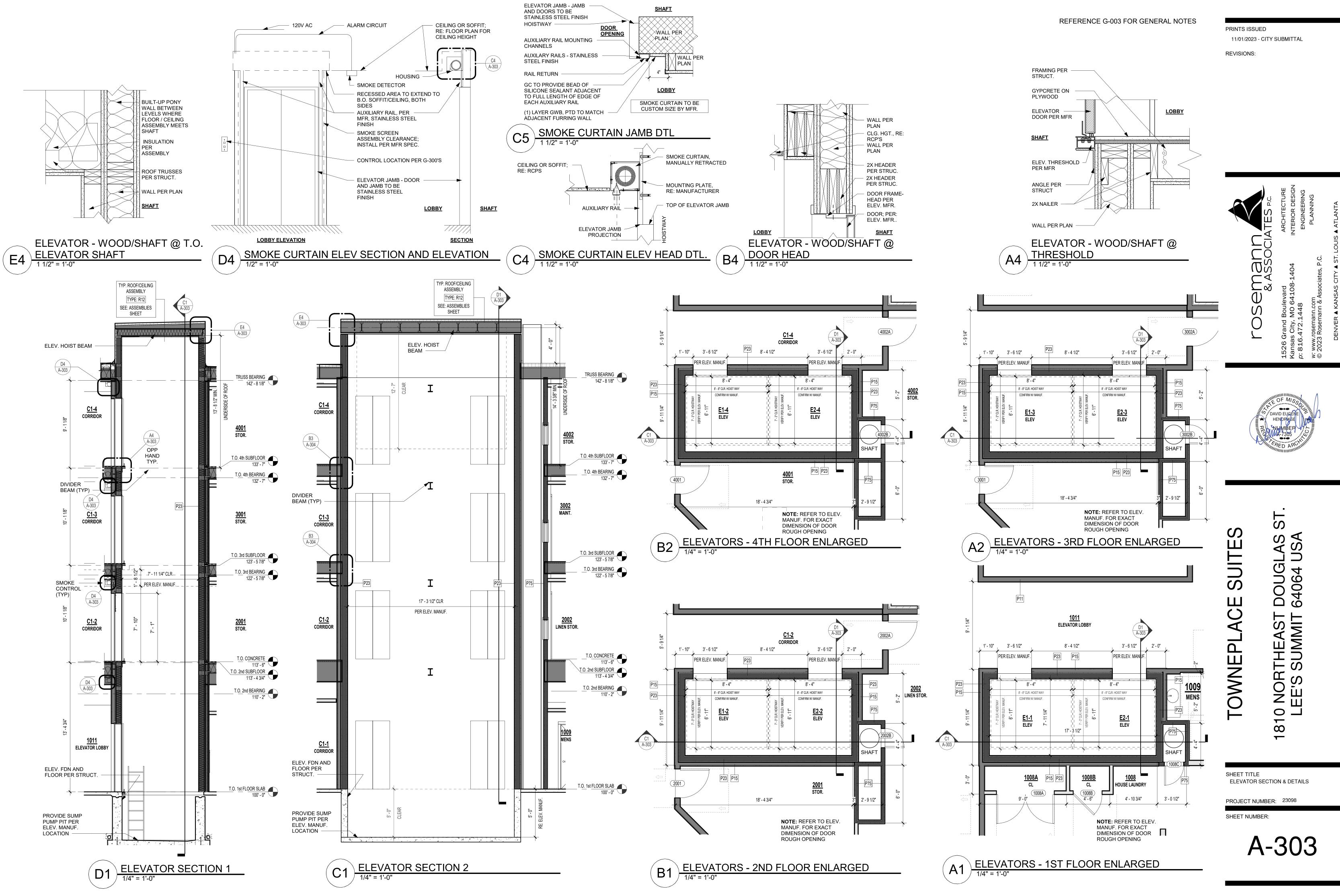


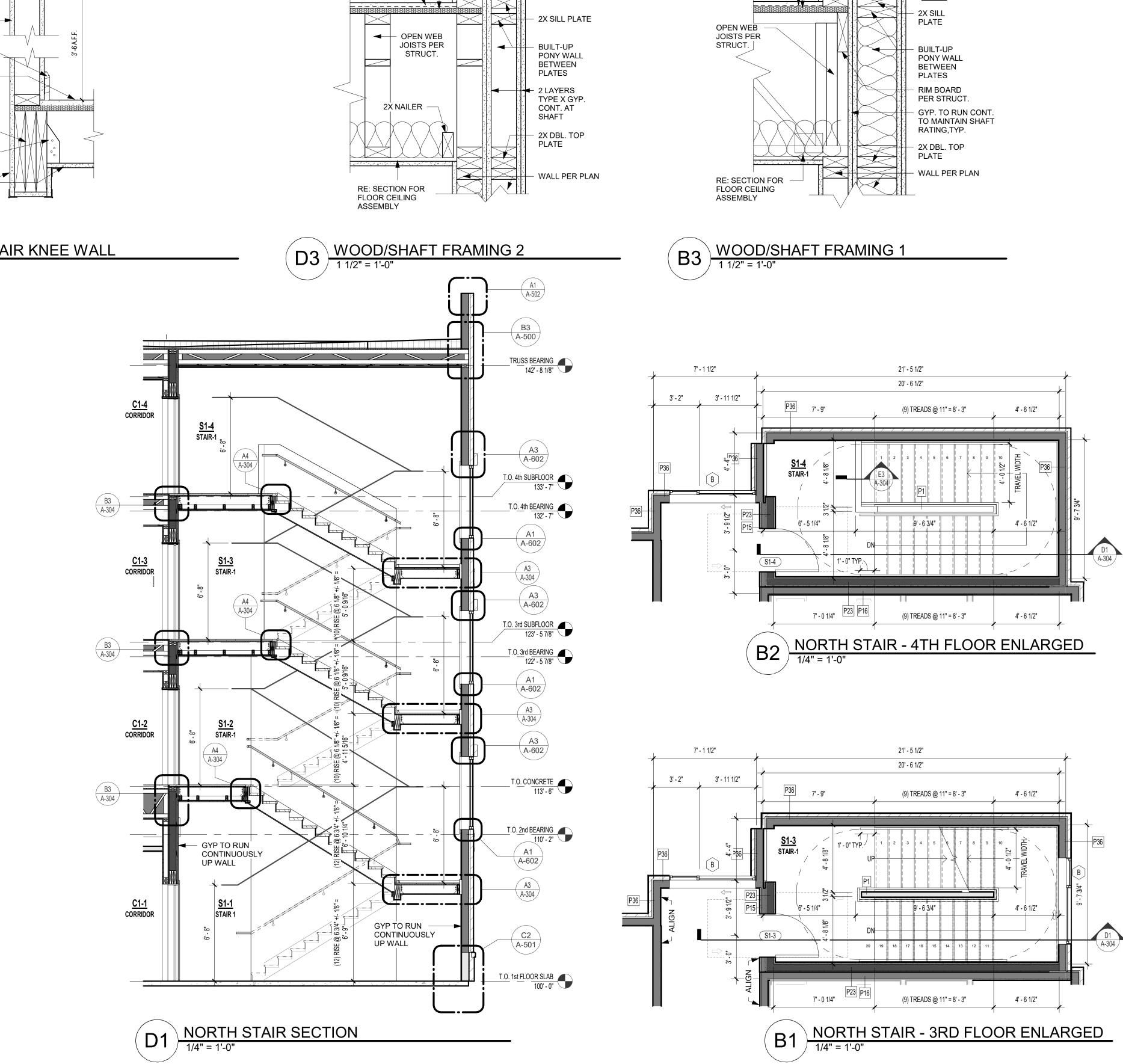
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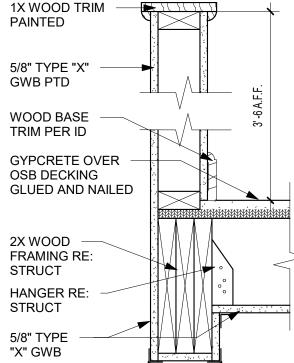


REFERENCE G-003 FOR GENERAL NOTES









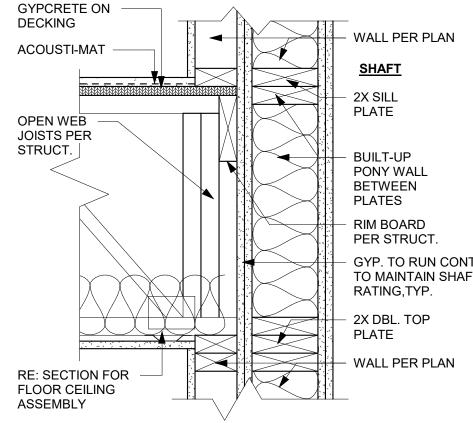




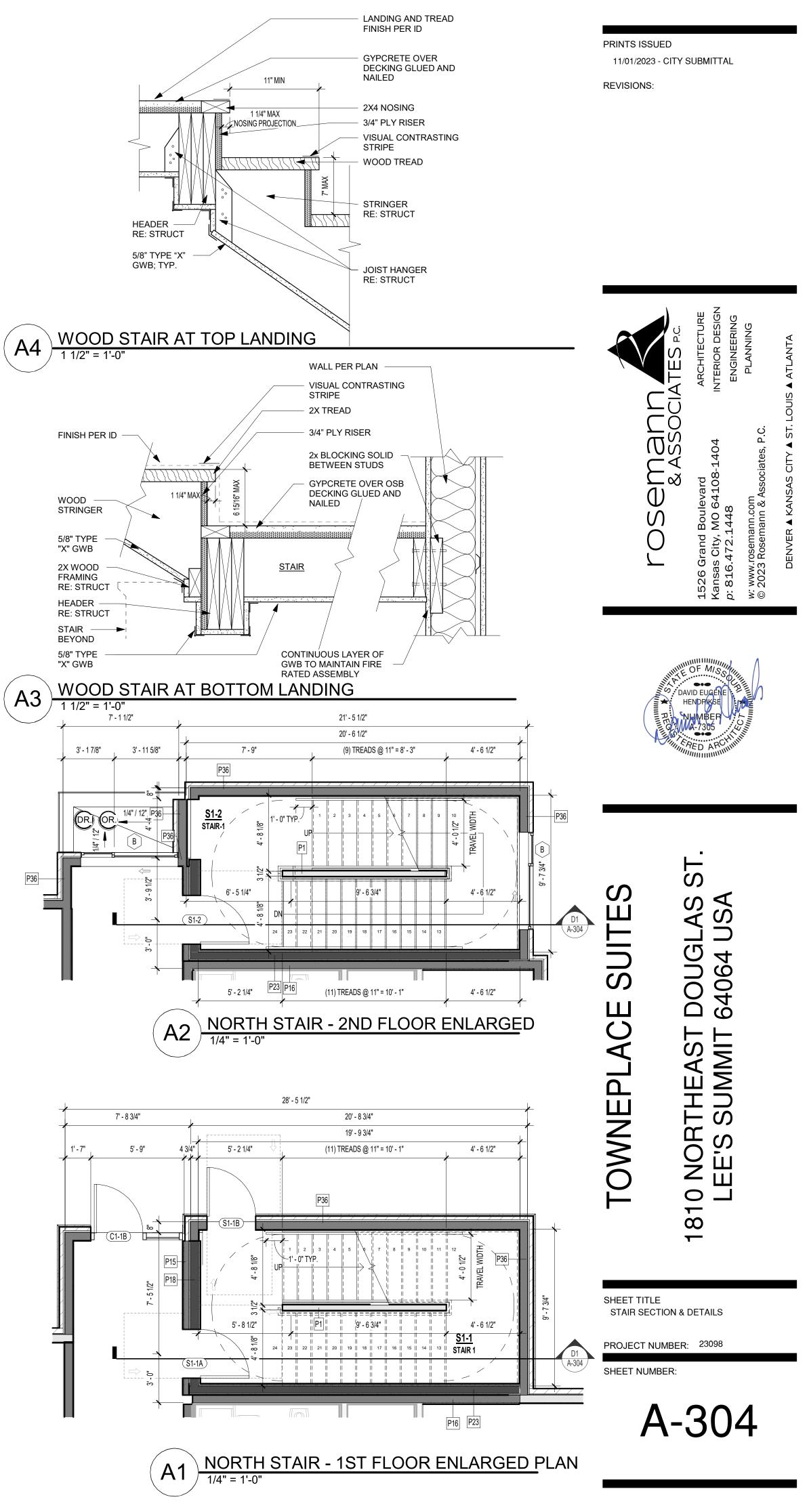
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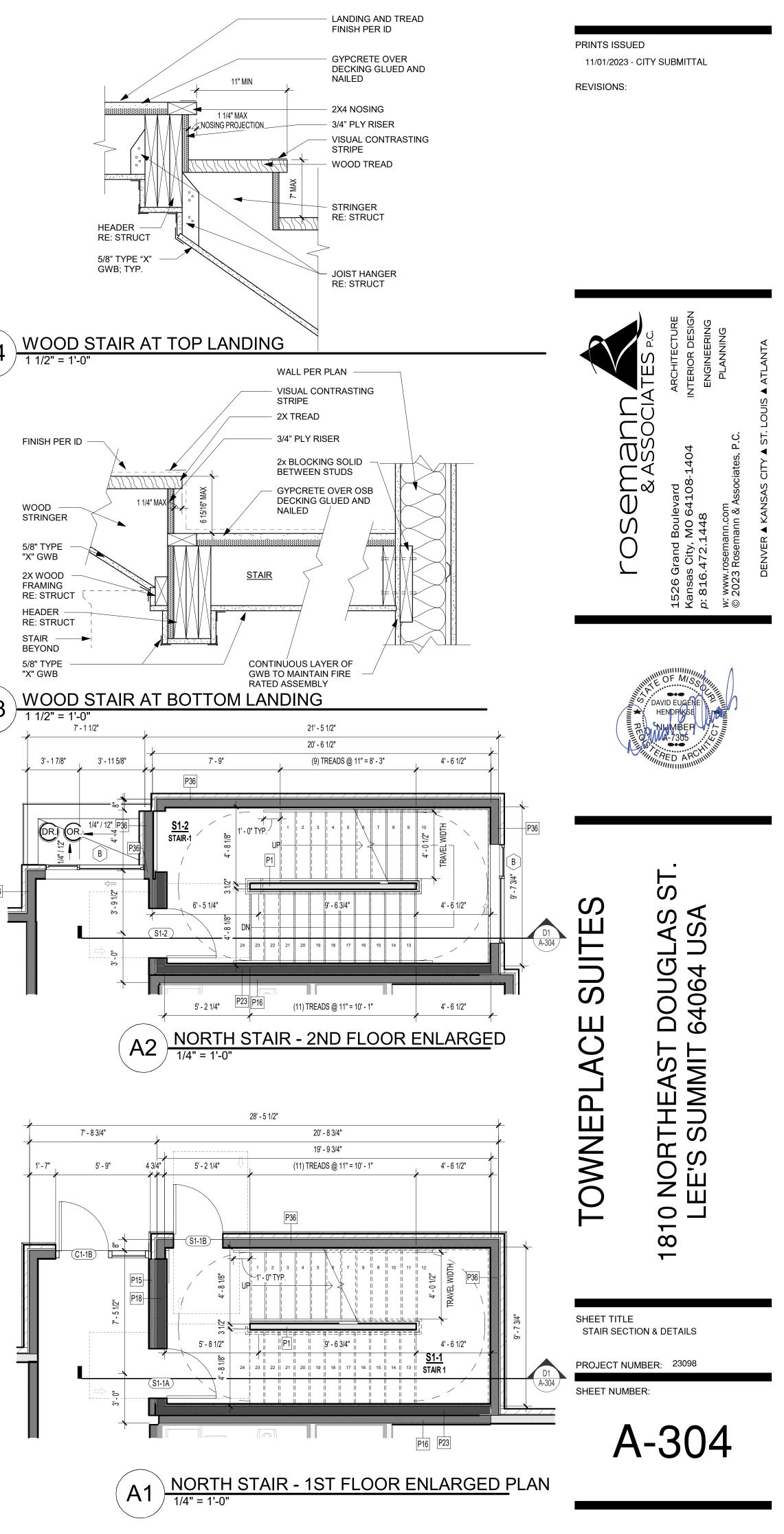
WALL PER PLAN

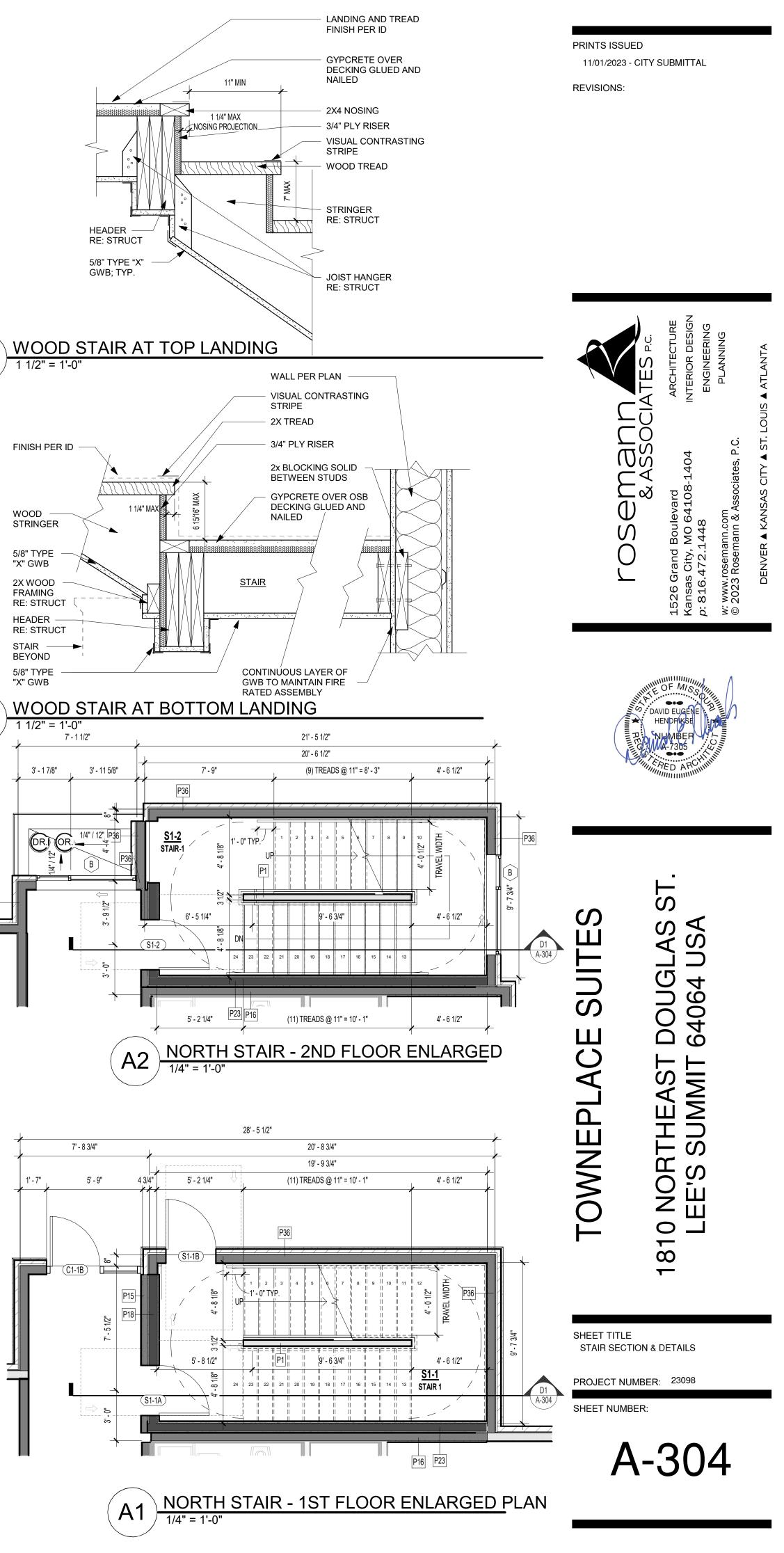


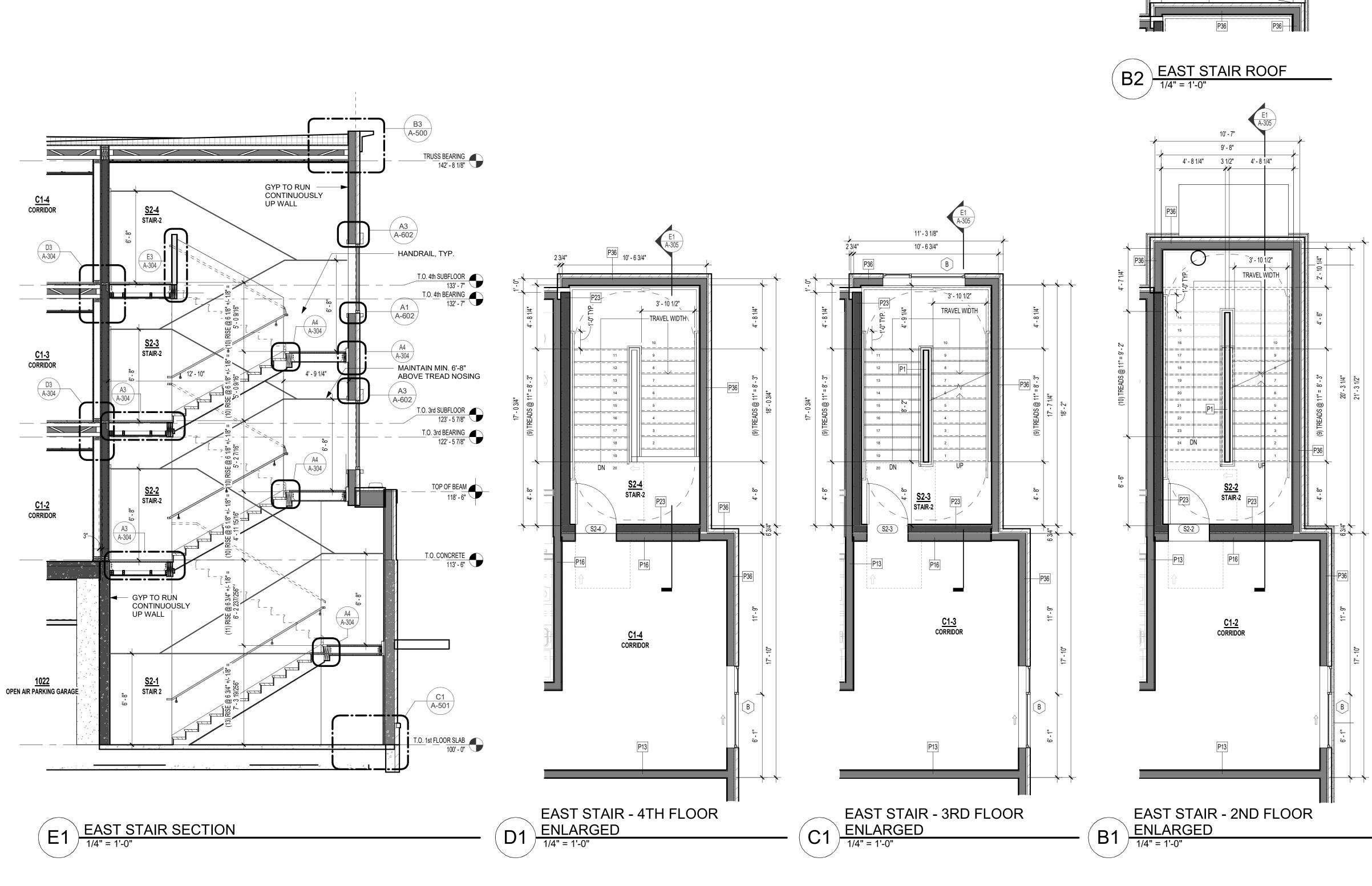




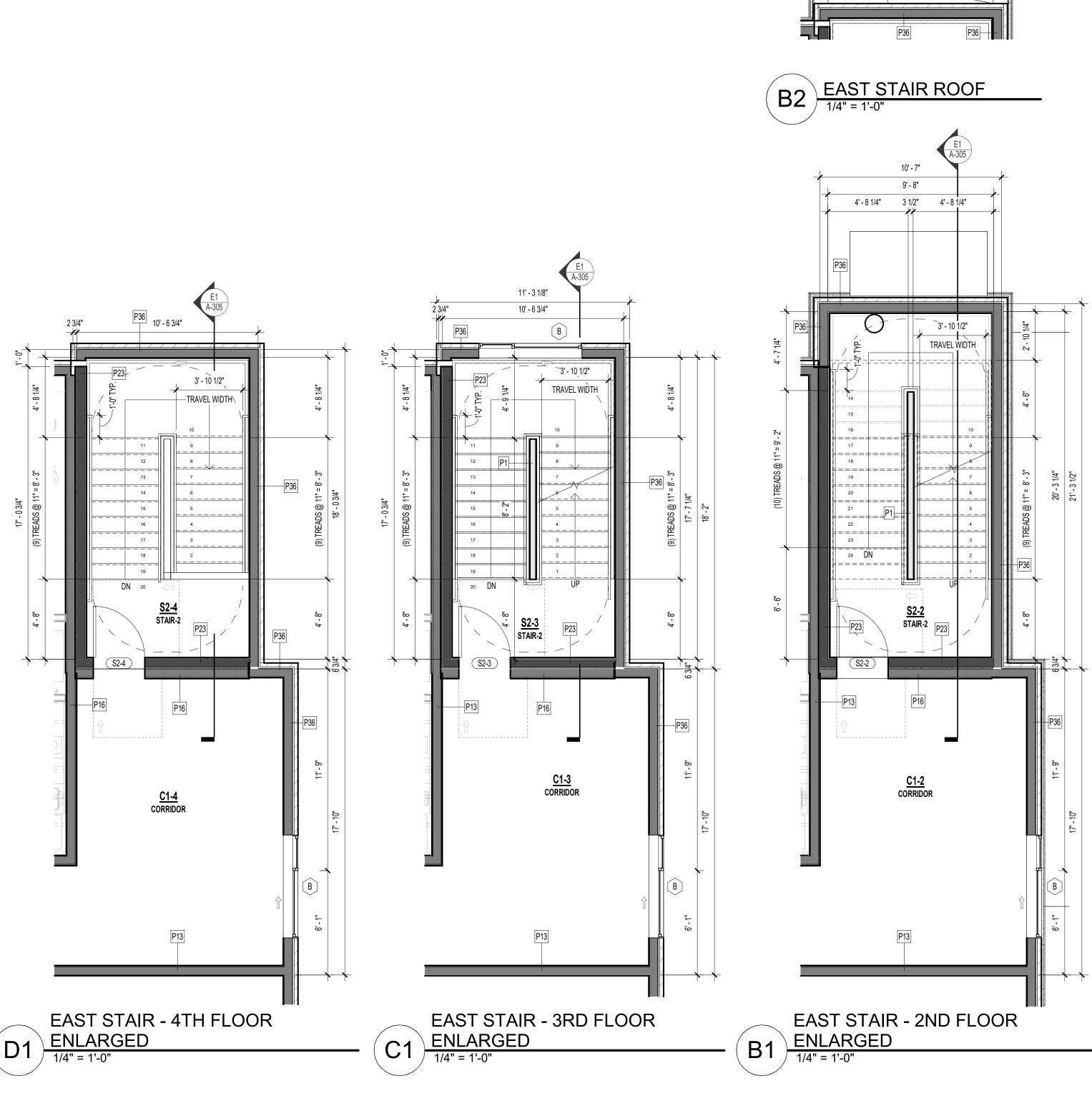


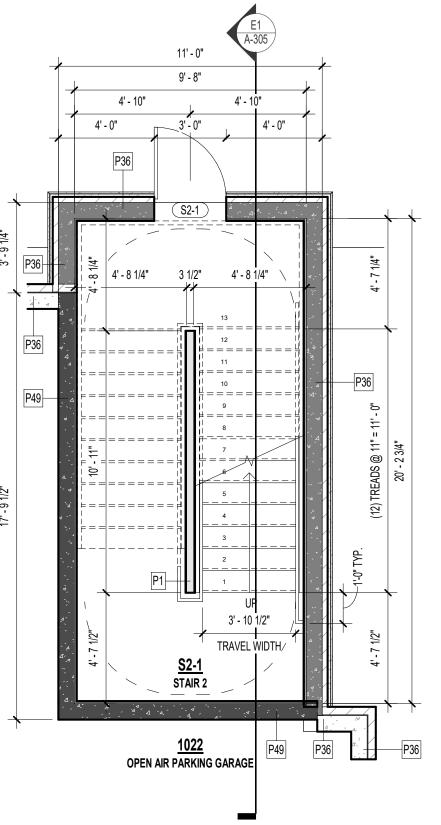












EAST STAIR - 1ST FLOOR ENLARGED 1/4" = 1'-0"

A1



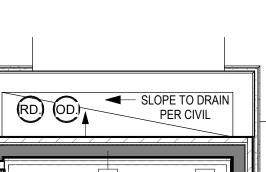
SHEET TITLE

SHEET NUMBER:

STAIR SECTION & DETAILS

PROJECT NUMBER: 23098

A-305





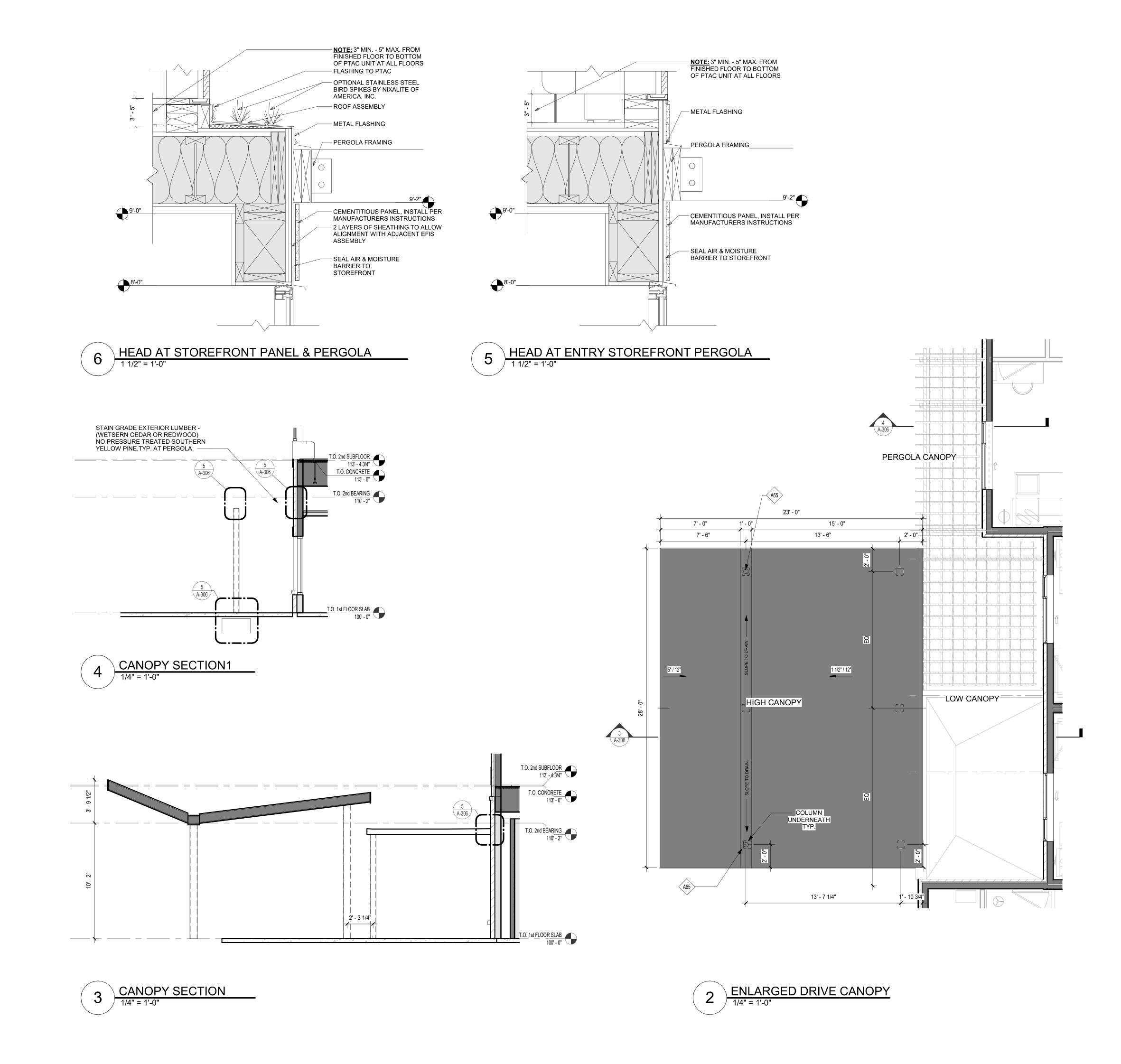




11/01/2023 - CITY SUBMITTAL **REVISIONS:**

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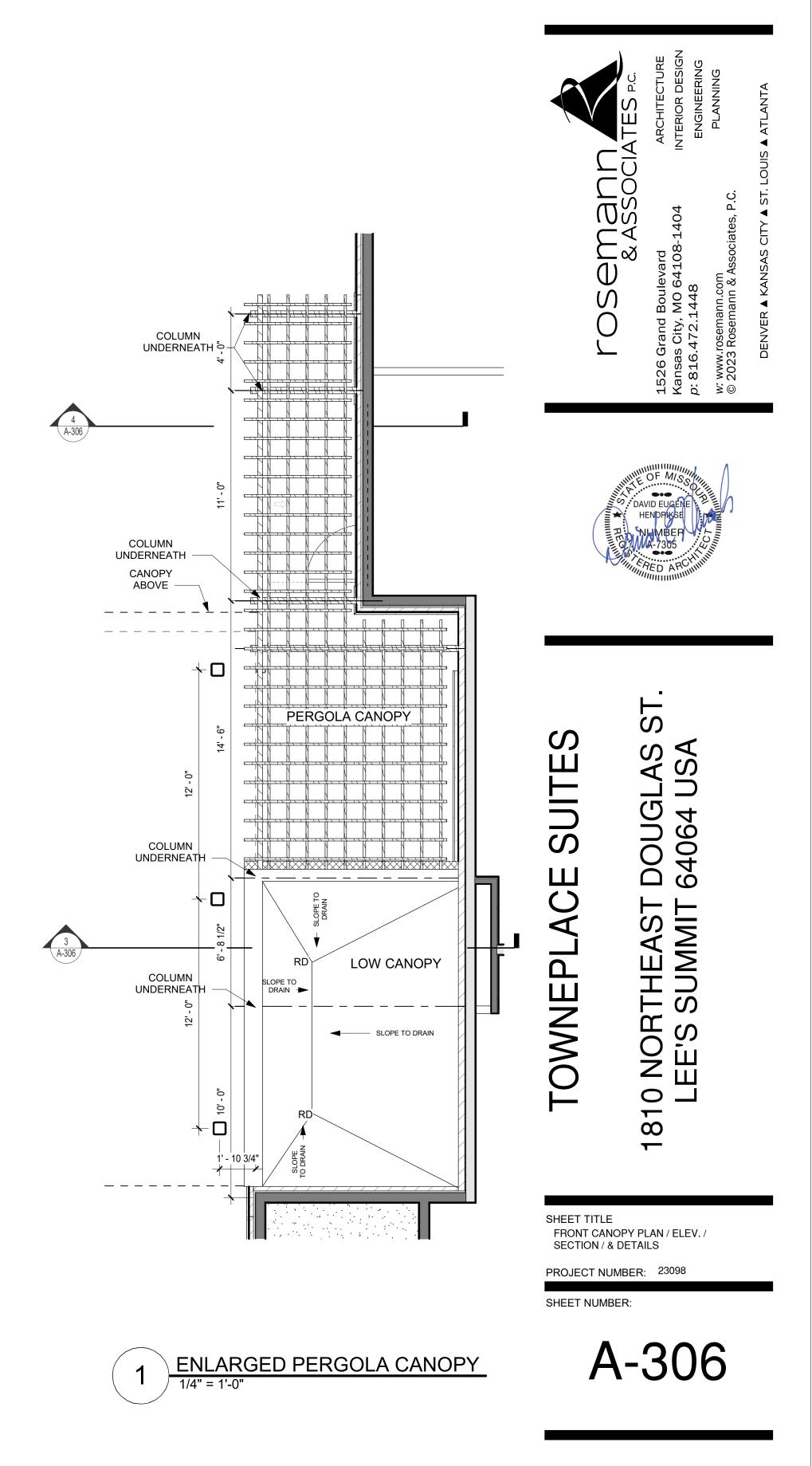
REFERENCE G-003 FOR GENERAL NOTES



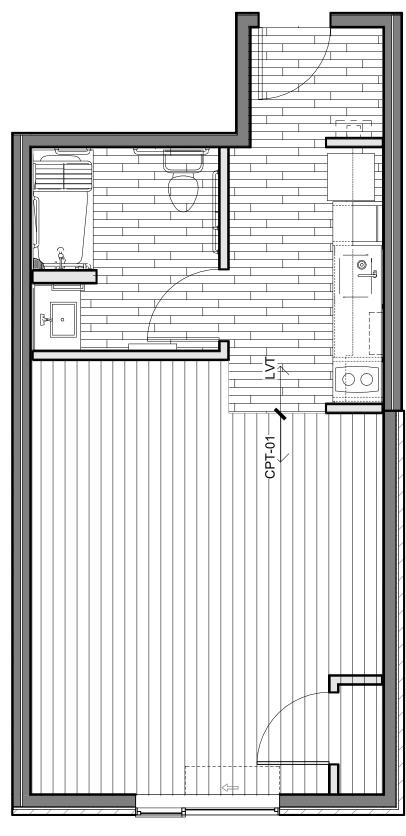
REFERENCE G-003 FOR GENERAL NOTES

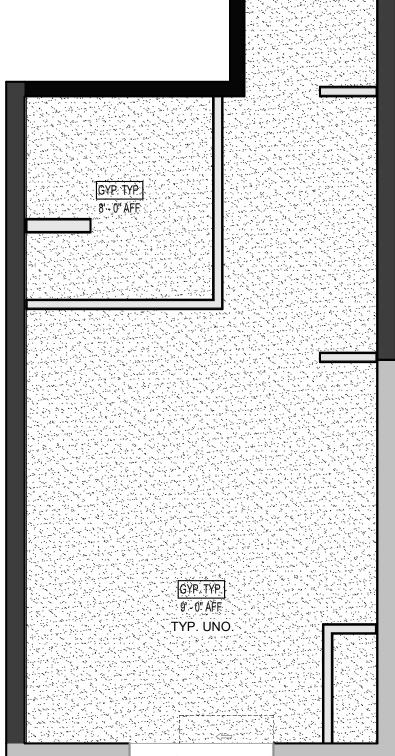


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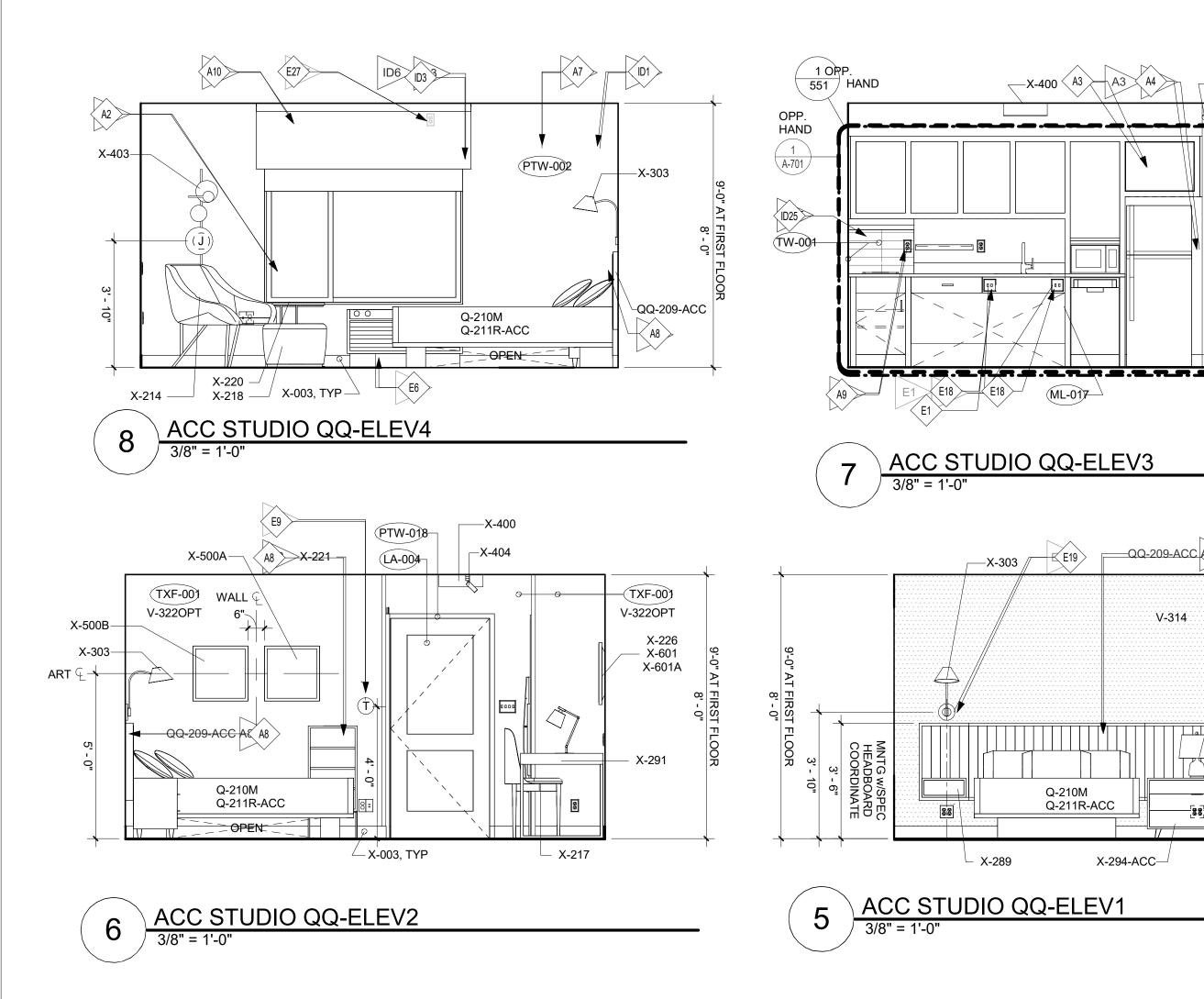


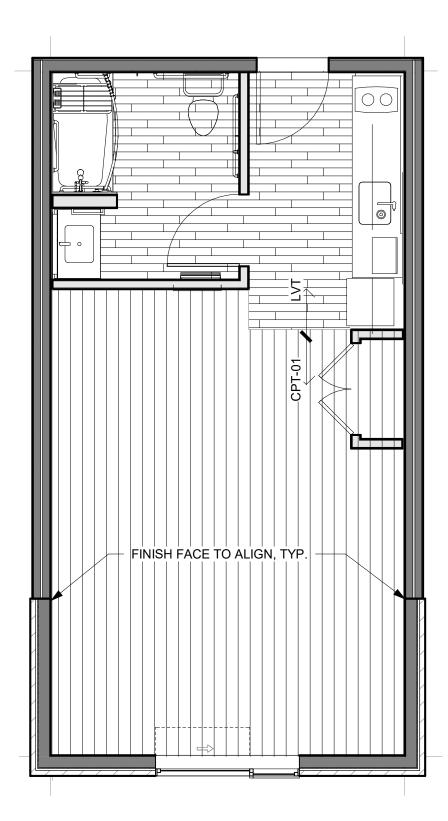






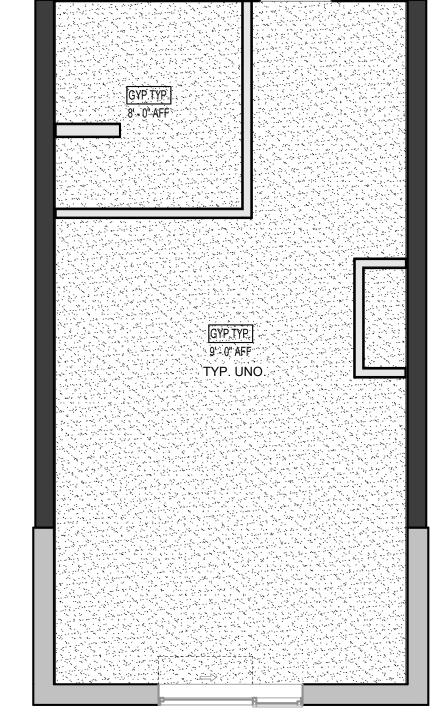




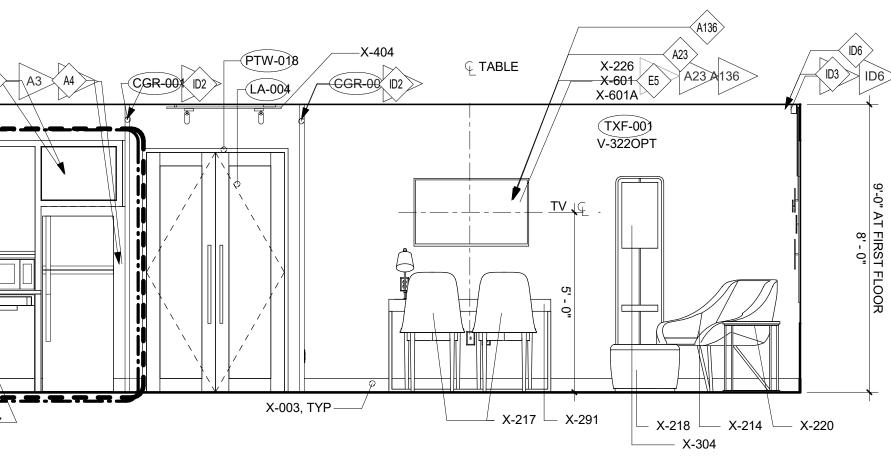


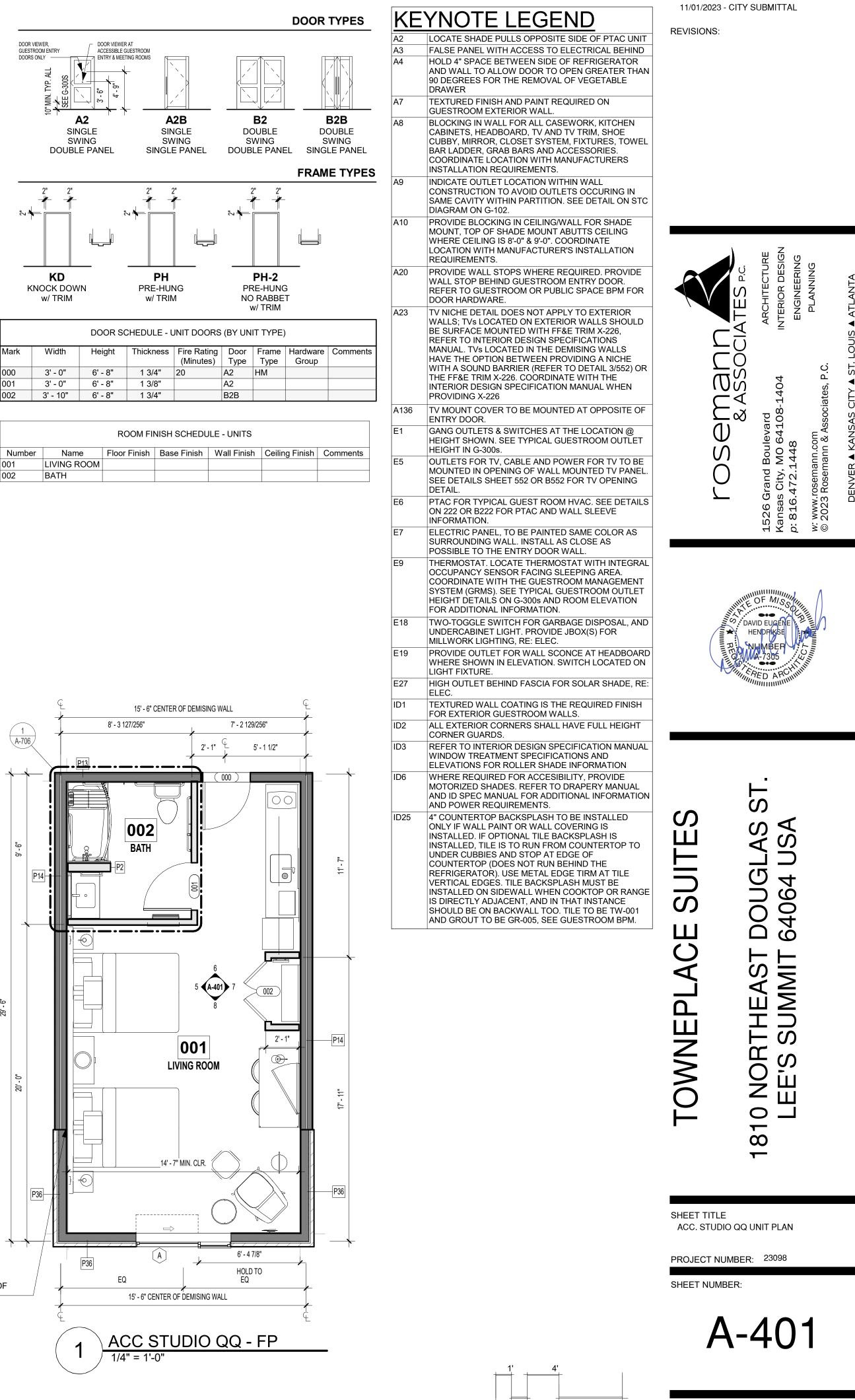
ACC STUDIO QQ - FINISH

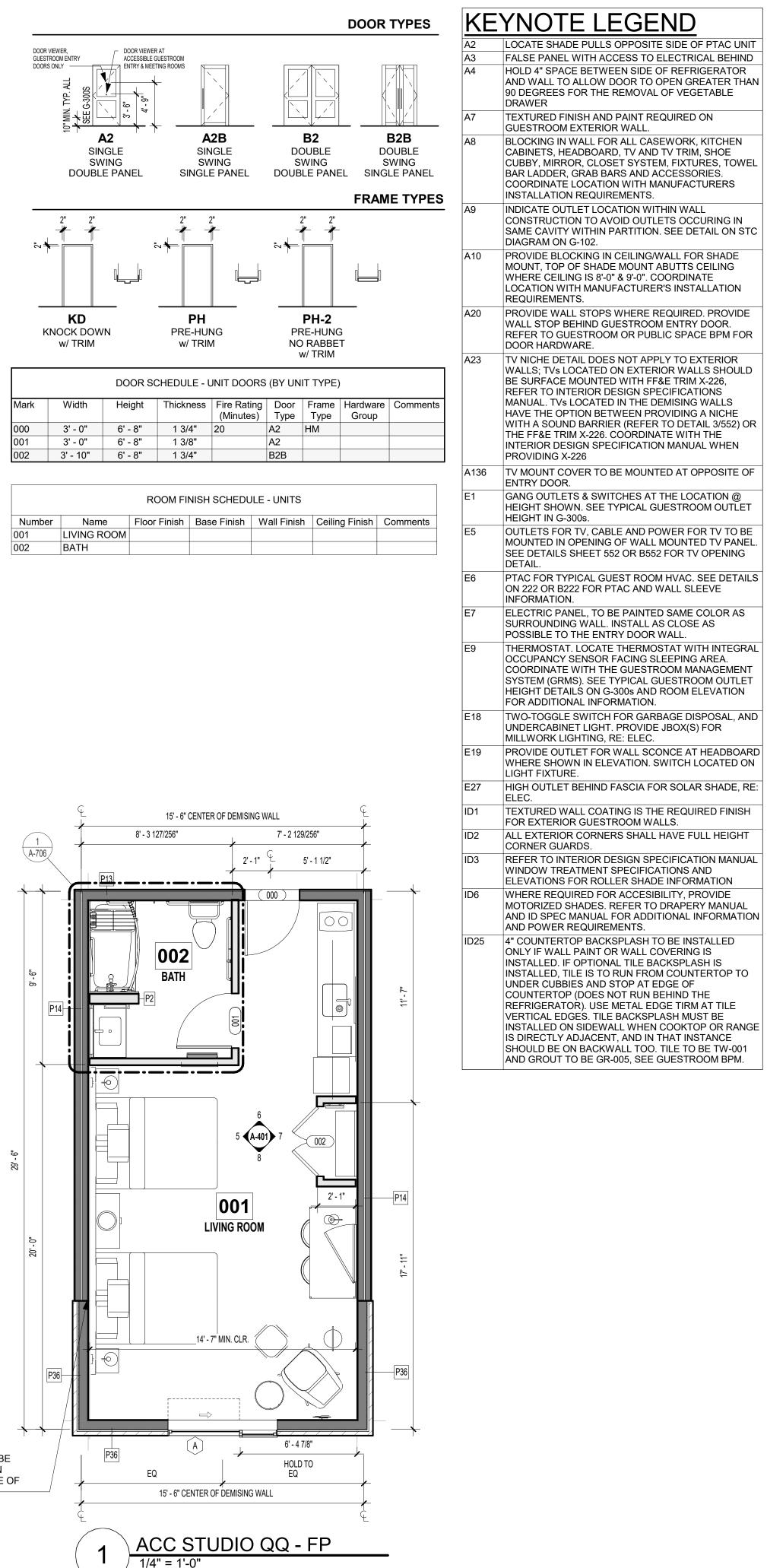
1/4" = 1'-0"

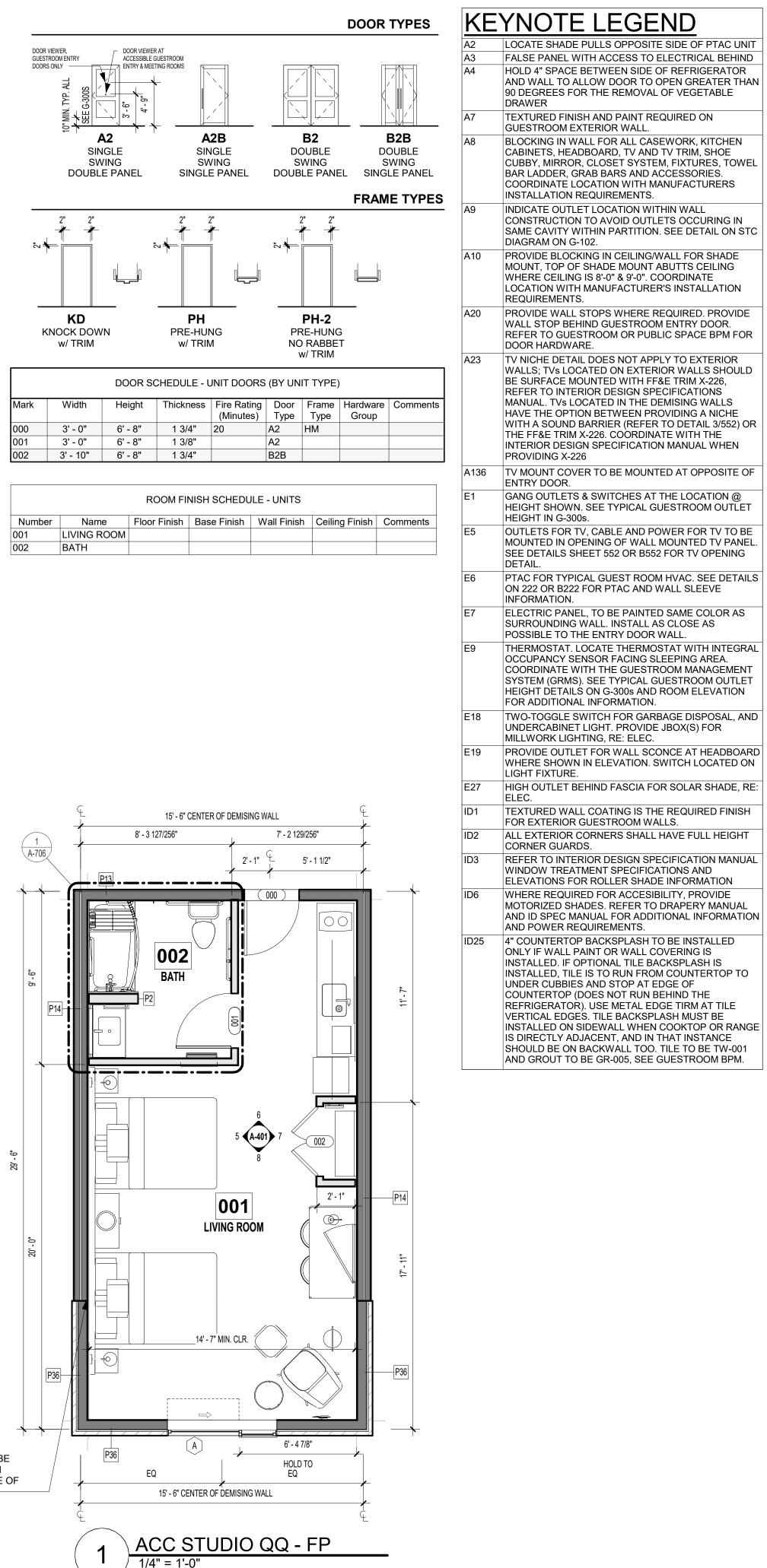


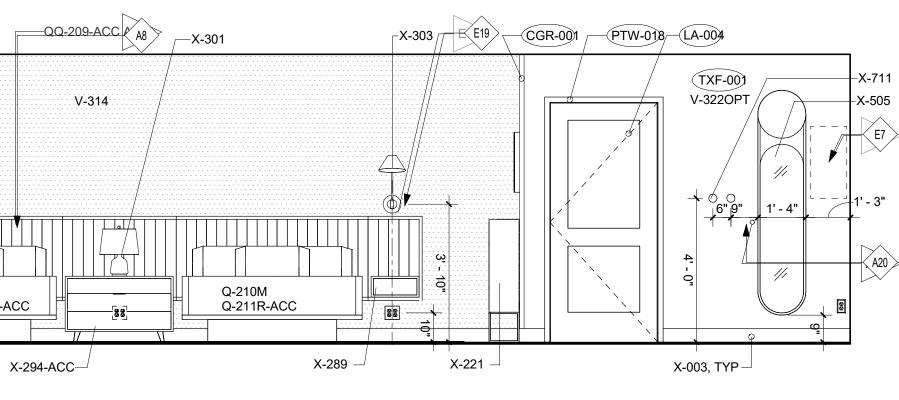




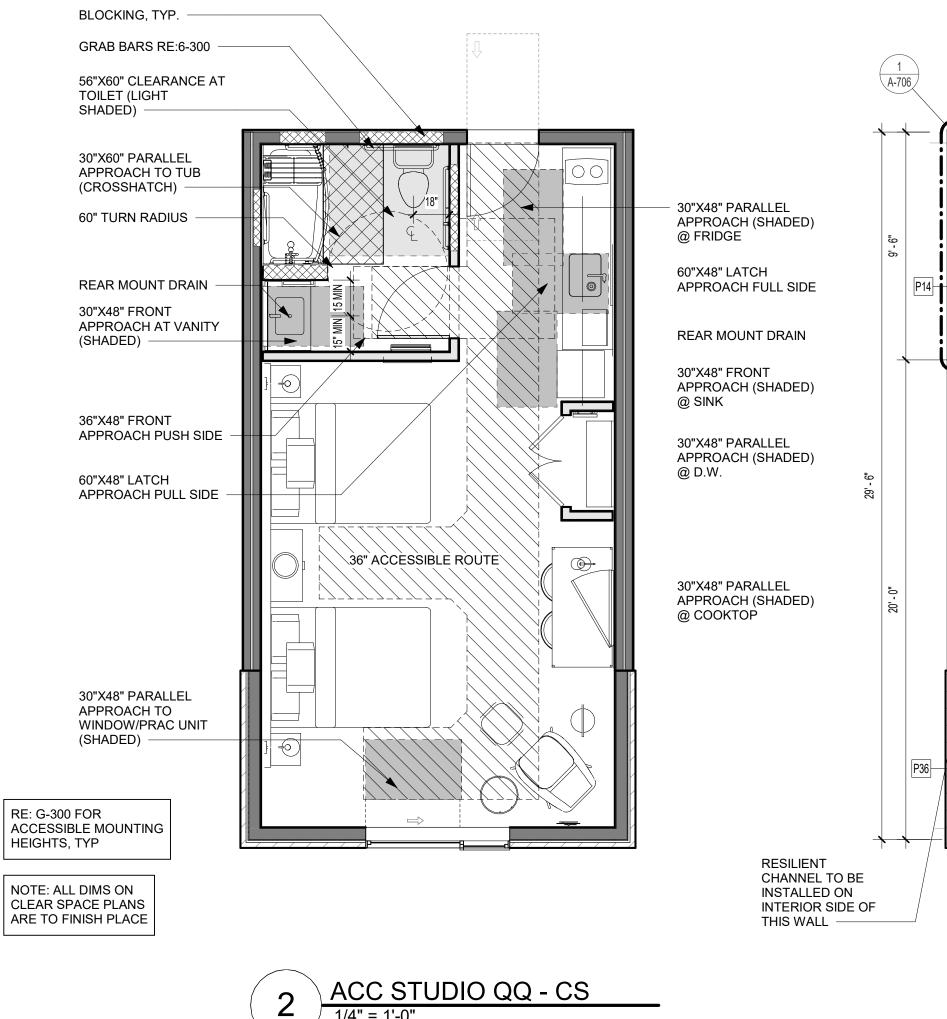




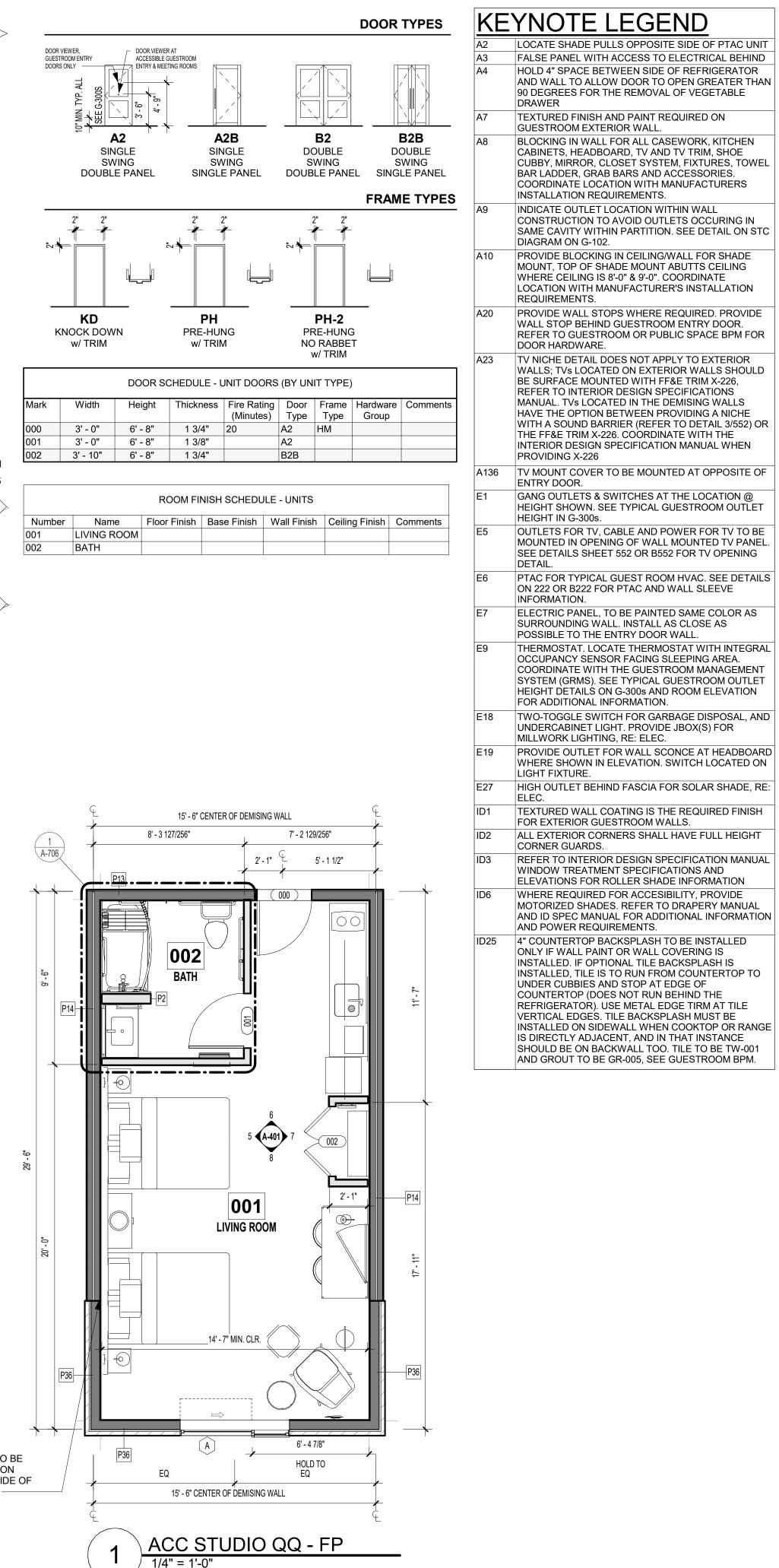








1/4" = 1'-0"



REFERENCE A-101 FOR PLAN LEGEND REFERENCE G-003 FOR GENERAL NOTES

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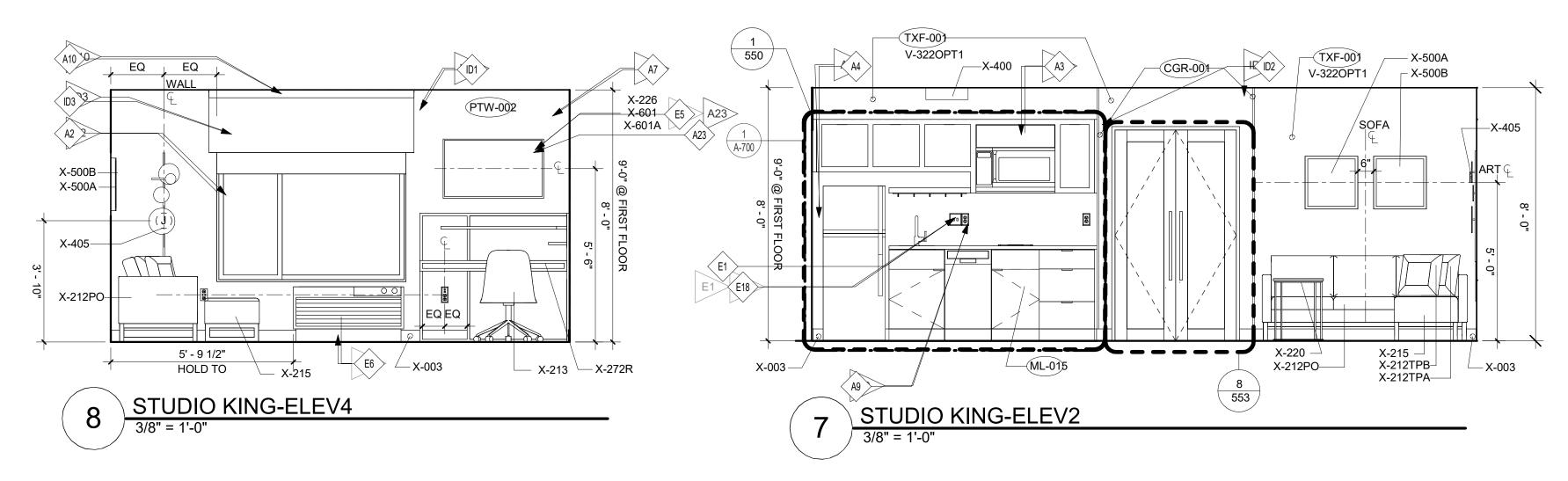
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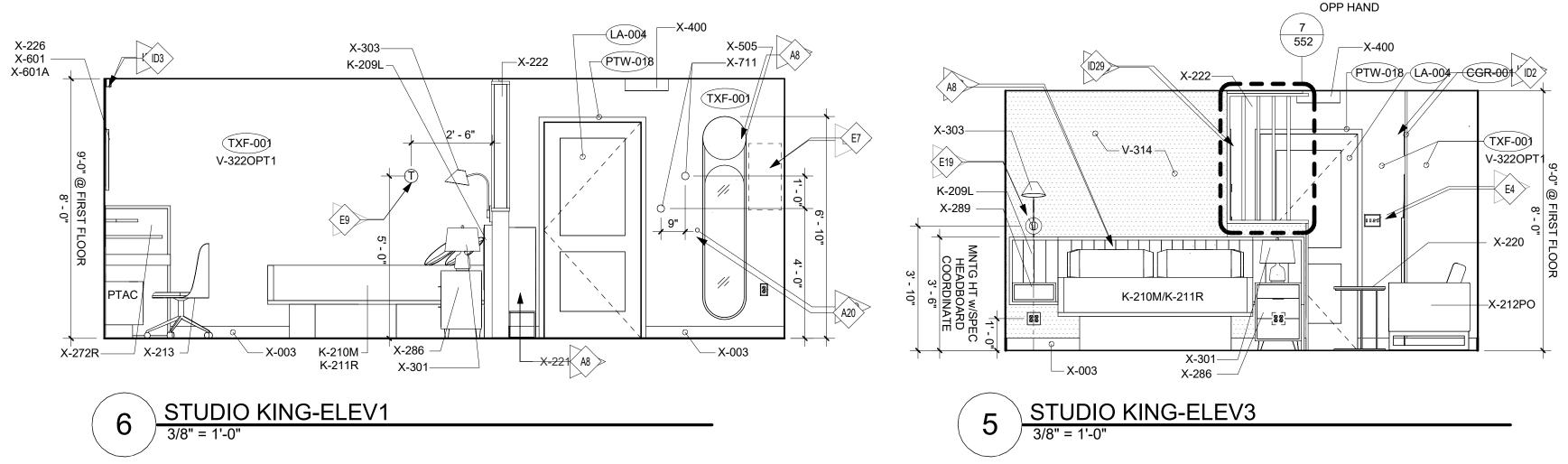
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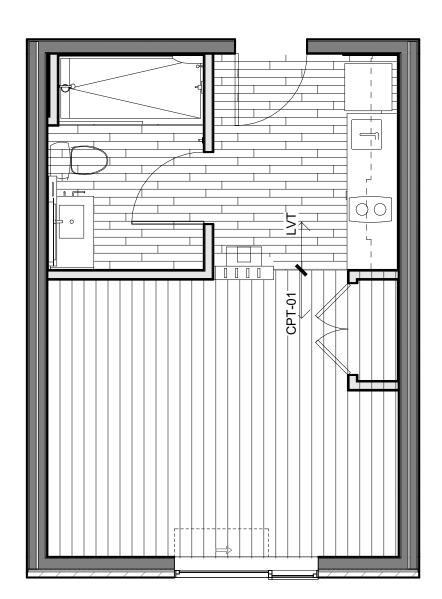
ACC. STUDIO QQ UNIT PLAN

PROJECT NUMBER: 23098

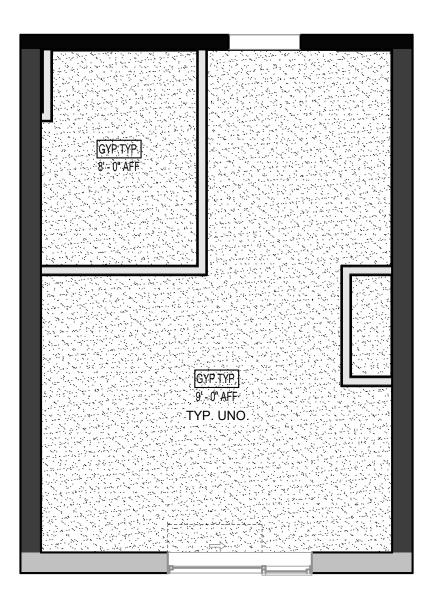




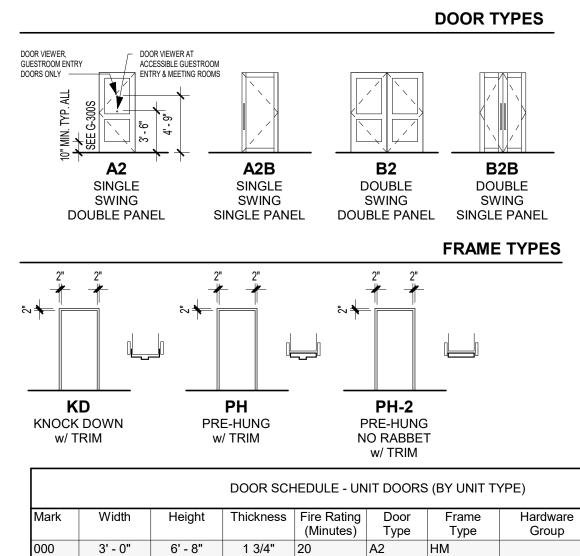


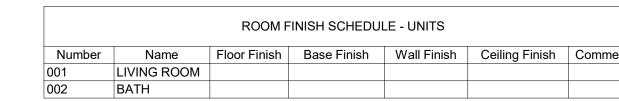












1 3/8"

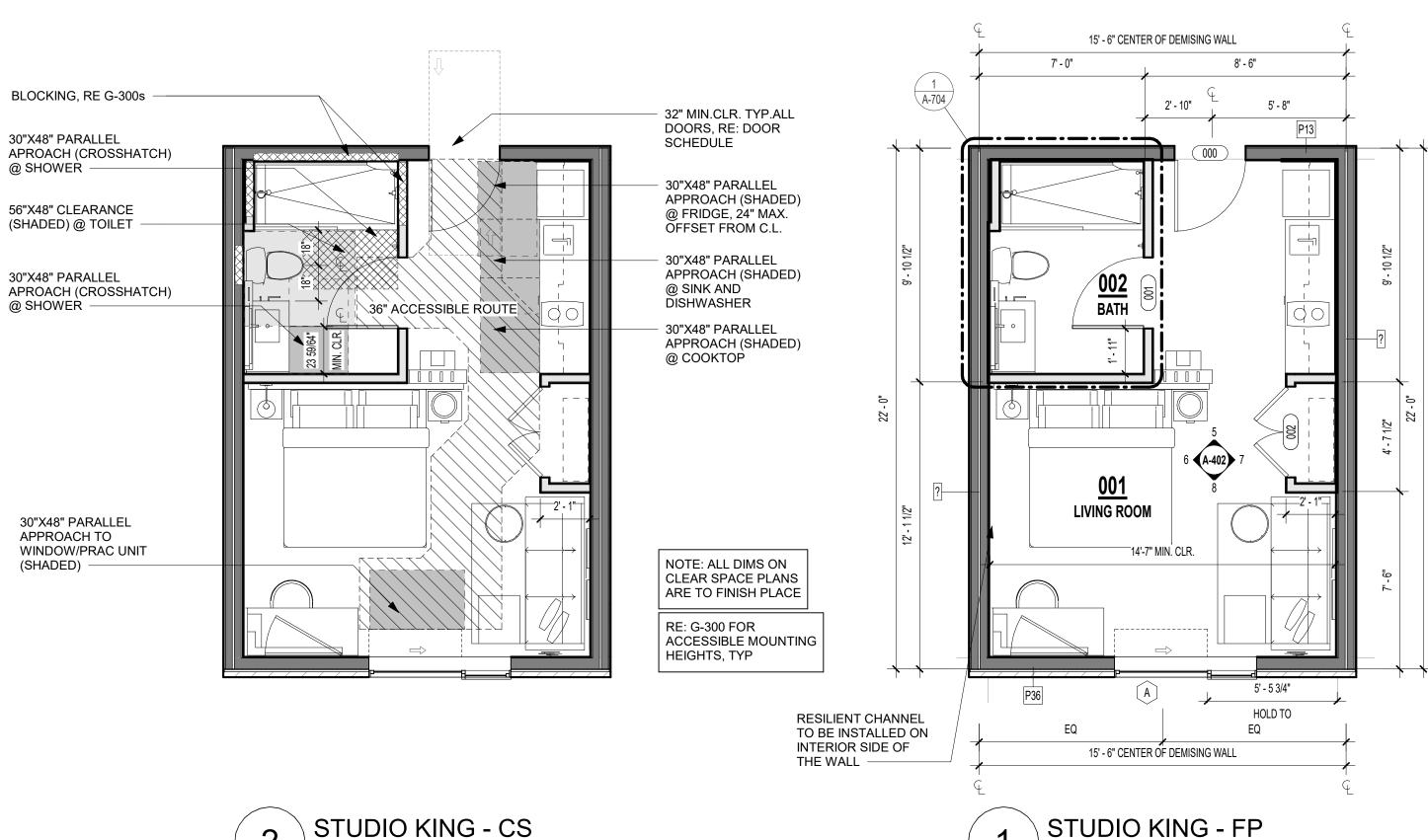
A2

B2B

1/4" = 1'-0"

6' - 8"

3' - 10" 6' - 8" 1 3/4"



001

002

3' - 0"



REFERENCE A-101 FOR PLAN LEGEND

	I	CELENCE A-1011 OKT LAN LEGEND	
	F	REFERENCE G-003 FOR GENERAL NOTES	PRINTS ISSUED
	KE	YNOTE LEGEND	11/01/2023 - CITY SUBMITTAL REVISIONS:
	A2	LOCATE SHADE PULLS OPPOSITE SIDE OF PTAC UNIT	
	A3	FALSE PANEL WITH ACCESS TO ELECTRICAL BEHIND	
	A4	HOLD 4" SPACE BETWEEN SIDE OF REFRIGERATOR AND WALL TO ALLOW DOOR TO OPEN GREATER THAN 90 DEGREES FOR THE REMOVAL OF VEGETABLE	
	A7	DRAWER TEXTURED FINISH AND PAINT REQUIRED ON GUESTROOM EXTERIOR WALL.	
	A8	BLOCKING IN WALL FOR ALL CASEWORK, KITCHEN CABINETS, HEADBOARD, TV AND TV TRIM, SHOE CUBBY, MIRROR, CLOSET SYSTEM, FIXTURES, TOWEL BAR LADDER, GRAB BARS AND ACCESSORIES. COORDINATE LOCATION WITH MANUFACTURERS INSTALLATION REQUIREMENTS.	
	A9	INDICATE OUTLET LOCATION WITHIN WALL CONSTRUCTION TO AVOID OUTLETS OCCURING IN SAME CAVITY WITHIN PARTITION. SEE DETAIL ON STC DIAGRAM ON G-102.	
	A10	PROVIDE BLOCKING IN CEILING/WALL FOR SHADE MOUNT, TOP OF SHADE MOUNT ABUTTS CEILING WHERE CEILING IS 8'-0" & 9'-0". COORDINATE LOCATION WITH MANUFACTURER'S INSTALLATION REQUIREMENTS.	
	A20	PROVIDE WALL STOPS WHERE REQUIRED. PROVIDE WALL STOP BEHIND GUESTROOM ENTRY DOOR. REFER TO GUESTROOM OR PUBLIC SPACE BPM FOR DOOR HARDWARE.	ARCHITECTURE INTERIOR DESIGN ENGINEERING PLANNING
	A23	TV NICHE DETAIL DOES NOT APPLY TO EXTERIOR WALLS; TVs LOCATED ON EXTERIOR WALLS SHOULD BE SURFACE MOUNTED WITH FF&E TRIM X-226,	
Comments		REFER TO INTERIOR DESIGN SPECIFICATIONS MANUAL. TVs LOCATED IN THE DEMISING WALLS HAVE THE OPTION BETWEEN PROVIDING A NICHE WITH A SOUND BARRIER (REFER TO DETAIL 3/552) OR THE FF&E TRIM X-226. COORDINATE WITH THE	s, P.C.
		INTERIOR DESIGN SPECIFICATION MANUAL WHEN PROVIDING X-226	3-1404 States, P
	E1	GANG OUTLETS & SWITCHES AT THE LOCATION @ HEIGHT SHOWN. SEE TYPICAL GUESTROOM OUTLET HEIGHT IN G-300s.	n 4108-: Associ
nents	E4	MASTER DEVICE OR LIGHT SWITCH WITH SIGNAGE TO CONTROL ALL HARDWIRED LIGHTS IN GUESTROOM, WITH EXCEPTION OF BATHROOM. PROVIDE SEPARATE SWITCHES FOR UPPER CABINET, UNDER SHELF, UNDER CABINET AND DECORATIVE WALL SCONCES. INTERFACE THE MASTER DEVICE WITH THE GUESTROOM MANAGEMENT SYSTEM (GRMS). SEE ELEC. & SPEC.	TOSEMA & AS & AS & AS & AS & AS & AS & AS & AS
	E5	OUTLETS FOR TV, CABLE AND POWER FOR TV TO BE MOUNTED IN OPENING OF WALL MOUNTED TV PANEL. SEE DETAILS SHEET 552 OR B552 FOR TV OPENING DETAIL.	© ½ ~ 8 0 × 10 0 × 10
	E6	PTAC FOR TYPICAL GUEST ROOM HVAC. SEE DETAILS ON 222 OR B222 FOR PTAC AND WALL SLEEVE INFORMATION.	
	E7	ELECTRIC PANEL, TO BE PAINTED SAME COLOR AS SURROUNDING WALL. INSTALL AS CLOSE AS POSSIBLE TO THE ENTRY DOOR WALL.	OF MISSO
	E9	THERMOSTAT. LOCATE THERMOSTAT WITH INTEGRAL OCCUPANCY SENSOR FACING SLEEPING AREA. COORDINATE WITH THE GUESTROOM MANAGEMENT SYSTEM (GRMS). SEE TYPICAL GUESTROOM OUTLET HEIGHT DETAILS ON G-300s AND ROOM ELEVATION FOR ADDITIONAL INFORMATION.	RED ARCHININ
	E18	TWO-TOGGLE SWITCH FOR GARBAGE DISPOSAL, AND UNDERCABINET LIGHT. PROVIDE JBOX(S) FOR MILLWORK LIGHTING, RE: ELEC.	
	E19	PROVIDE OUTLET FOR WALL SCONCE AT HEADBOARD WHERE SHOWN IN ELEVATION. SWITCH LOCATED ON LIGHT FIXTURE.	
	ID1 ID2	TEXTURED WALL COATING IS THE REQUIRED FINISH FOR EXTERIOR GUESTROOM WALLS. ALL EXTERIOR CORNERS SHALL HAVE FULL HEIGHT	
G.		CORNER GUARDS.	•
	ID3	REFER TO INTERIOR DESIGN SPECIFICATION MANUAL WINDOW TREATMENT SPECIFICATIONS AND ELEVATIONS FOR ROLLER SHADE INFORMATION	L S L
1	1020		()

WALLCOVERING TO WRAP AROUND ALL WALL CORNERS TRANSITIONING TO SLAT WALL.

ID29

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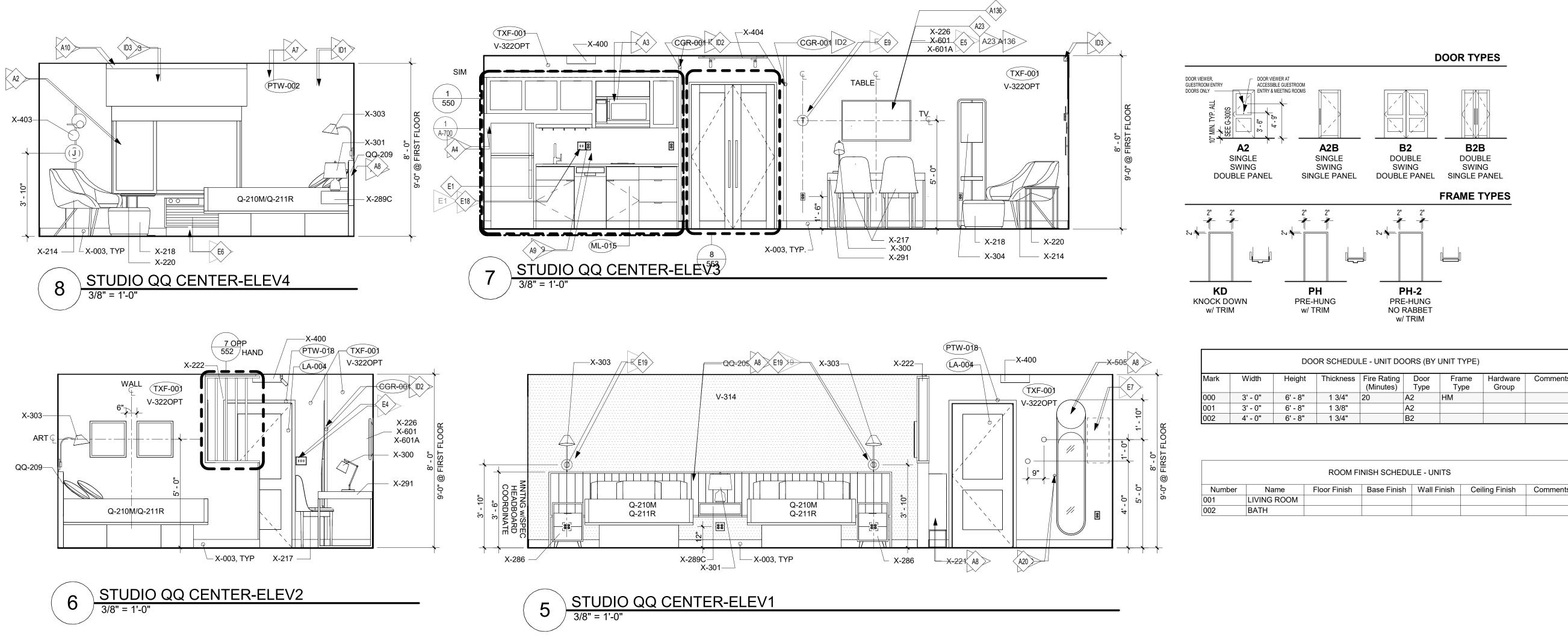
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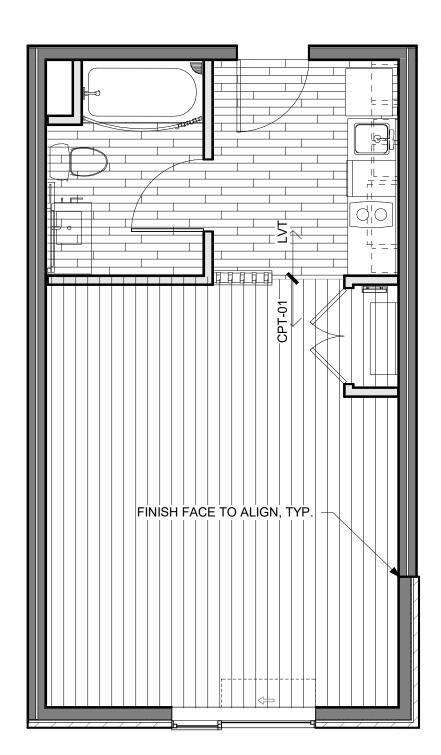
SHEET TITLE

STUDIO KING UNIT PLAN

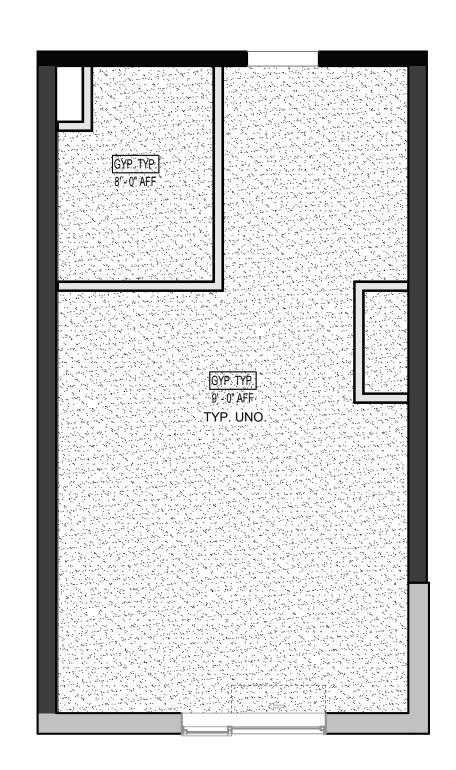
PROJECT NUMBER: 23098







STUDIO QQ CENTER - FINISH

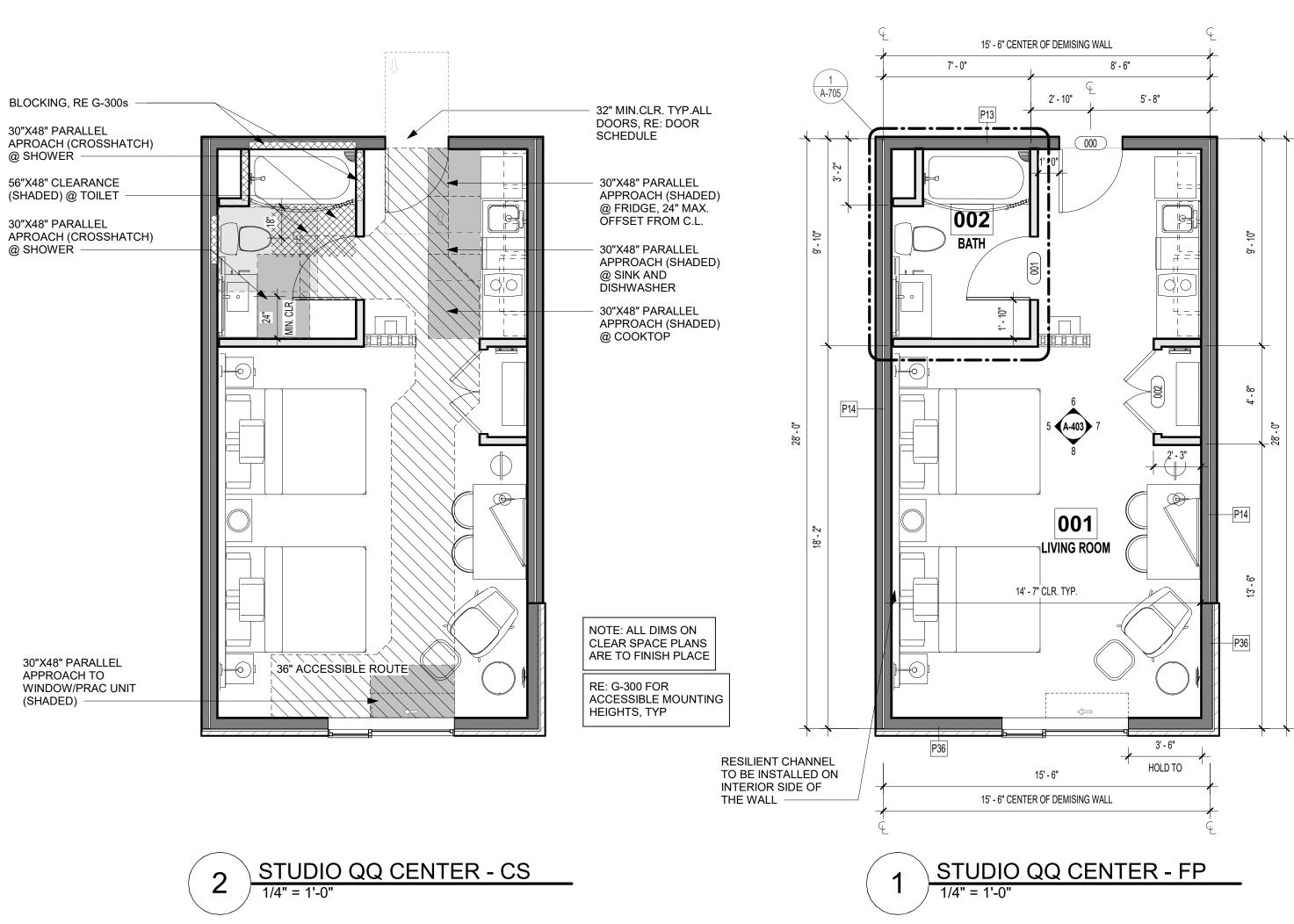


STUDIO QQ CENTER - RCP 3

4

/ 1/4" = 1'-0"

Number	Name	Floor Finish	Base Finish	Wall Finish	Ceiling Finish	Comments
001	LIVING ROOM					
002	BATH					



REFERENCE G-003 FOR GENERAL NOTES **REFERENCE A-101 FOR PLAN LEGEND**

۲F	YNOTE LEGEND
2	LOCATE SHADE PULLS OPPOSITE SIDE OF PTAC UNIT
3	FALSE PANEL WITH ACCESS TO ELECTRICAL BEHIND
4	HOLD 4" SPACE BETWEEN SIDE OF REFRIGERATOR AND WALL TO ALLOW DOOR TO OPEN GREATER THAN
	90 DEGREES FOR THE REMOVAL OF VEGETABLE
7	
(TEXTURED FINISH AND PAINT REQUIRED ON GUESTROOM EXTERIOR WALL.
3	BLOCKING IN WALL FOR ALL CASEWORK, KITCHEN
	CABINETS, HEADBOARD, TV AND TV TRIM, SHOE CUBBY, MIRROR, CLOSET SYSTEM, FIXTURES, TOWEL
	BAR LADDER, GRAB BARS AND ACCESSORIES.
	COORDINATE LOCATION WITH MANUFACTURERS INSTALLATION REQUIREMENTS.
.9	INDICATE OUTLET LOCATION WITHIN WALL
	CONSTRUCTION TO AVOID OUTLETS OCCURING IN
	SAME CAVITY WITHIN PARTITION. SEE DETAIL ON STC DIAGRAM ON G-102.
10	PROVIDE BLOCKING IN CEILING/WALL FOR SHADE
	MOUNT, TOP OF SHADE MOUNT ABUTTS CEILING
	WHERE CEILING IS 8'-0" & 9'-0". COORDINATE
	REQUIREMENTS.
20	PROVIDE WALL STOPS WHERE REQUIRED. PROVIDE
	WALL STOP BEHIND GUESTROOM ENTRY DOOR. REFER TO GUESTROOM OR PUBLIC SPACE BPM FOR
	DOOR HARDWARE.
23	TV NICHE DETAIL DOES NOT APPLY TO EXTERIOR
	WALLS; TVs LOCATED ON EXTERIOR WALLS SHOULD BE SURFACE MOUNTED WITH FF&E TRIM X-226.
	REFER TO INTERIOR DESIGN SPECIFICATIONS
	MANUAL. TVs LOCATED IN THE DEMISING WALLS HAVE THE OPTION BETWEEN PROVIDING A NICHE
	WITH A SOUND BARRIER (REFER TO DETAIL 3/552) OR
	THE FF&E TRIM X-226. COORDINATE WITH THE
	INTERIOR DESIGN SPECIFICATION MANUAL WHEN PROVIDING X-226
136	TV MOUNT COVER TO BE MOUNTED AT OPPOSITE OF
1	ENTRY DOOR.
1	GANG OUTLETS & SWITCHES AT THE LOCATION @ HEIGHT SHOWN. SEE TYPICAL GUESTROOM OUTLET HEIGHT IN G-300s.
4	MASTER DEVICE OR LIGHT SWITCH WITH SIGNAGE TO
	CONTROL ALL HARDWIRED LIGHTS IN GUESTROOM,
	WITH EXCEPTION OF BATHROOM. PROVIDE SEPARATE SWITCHES FOR UPPER CABINET, UNDER
	SHELF, UNDER CABINET AND DECORATIVE WALL
	SCONCES. INTERFACE THE MASTER DEVICE WITH THE GUESTROOM MANAGEMENT SYSTEM (GRMS).
	SEE ELEC. & SPEC.
5	OUTLETS FOR TV, CABLE AND POWER FOR TV TO BE
	MOUNTED IN OPENING OF WALL MOUNTED TV PANEL. SEE DETAILS SHEET 552 OR B552 FOR TV OPENING
	DETAILS SHEET 552 OR B552 FOR TV OPENING DETAIL.
6	PTAC FOR TYPICAL GUEST ROOM HVAC. SEE DETAILS
	ON 222 OR B222 FOR PTAC AND WALL SLEEVE INFORMATION.
7	ELECTRIC PANEL, TO BE PAINTED SAME COLOR AS
	SURROUNDING WALL. INSTALL AS CLOSE AS
9	POSSIBLE TO THE ENTRY DOOR WALL. THERMOSTAT. LOCATE THERMOSTAT WITH INTEGRAL
	OCCUPANCY SENSOR FACING SLEEPING AREA.
	COORDINATE WITH THE GUESTROOM MANAGEMENT SYSTEM (GRMS). SEE TYPICAL GUESTROOM OUTLET
	HEIGHT DETAILS ON G-300s AND ROOM ELEVATION
	FOR ADDITIONAL INFORMATION.
18	TWO-TOGGLE SWITCH FOR GARBAGE DISPOSAL, AND UNDERCABINET LIGHT. PROVIDE JBOX(S) FOR
	MILLWORK LIGHTING, RE: ELEC.
19	PROVIDE OUTLET FOR WALL SCONCE AT HEADBOARD
	WHERE SHOWN IN ELEVATION. SWITCH LOCATED ON LIGHT FIXTURE.
D1	TEXTURED WALL COATING IS THE REQUIRED FINISH
	FOR EXTERIOR GUESTROOM WALLS.
02	ALL EXTERIOR CORNERS SHALL HAVE FULL HEIGHT CORNER GUARDS.
03	REFER TO INTERIOR DESIGN SPECIFICATION MANUAL
	WINDOW TREATMENT SPECIFICATIONS AND

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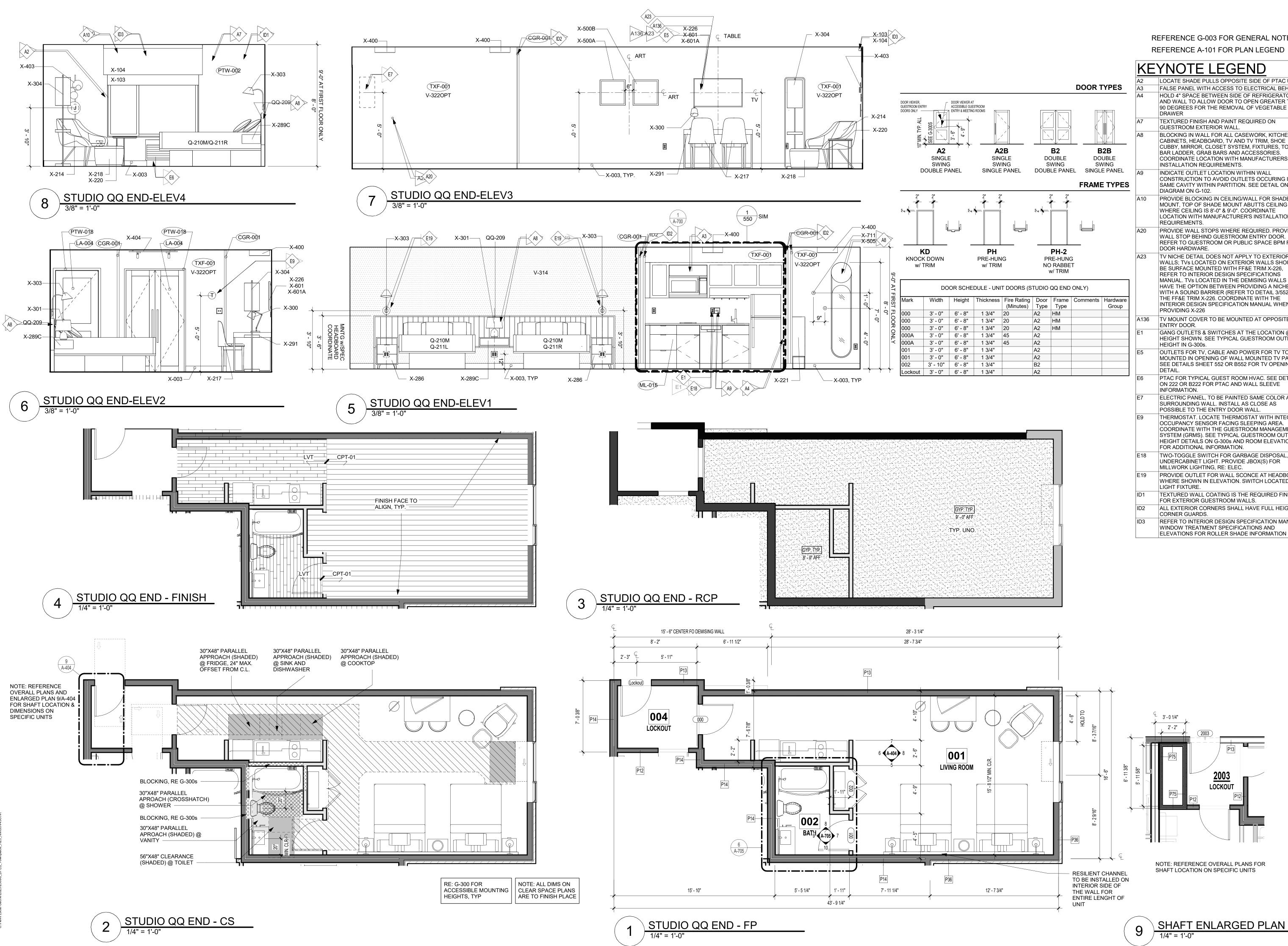
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SHEET TITLE

STUDIO QQ CENTER UNIT PLAN

PROJECT NUMBER: 23098

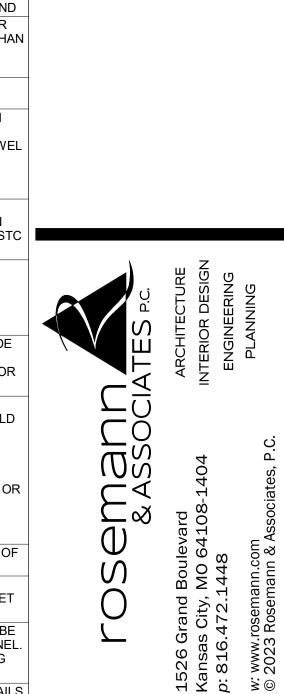




REFERENCE G-003 FOR GENERAL NOTES REFERENCE A-101 FOR PLAN LEGEND

s	Fire Rating (Minutes)	Door Type	Frame Type	Comments	Hardware Group	
	20	A2	НМ			
	20	A2	НМ			1
	20	A2	НМ			
	45	A2				ľ
	45	A2				
		A2				F
		A2				
		B2				
		A2				
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A2	LOCATE SHADE PULLS OPPOSITE SIDE OF PTAC UNIT
A3 A4	FALSE PANEL WITH ACCESS TO ELECTRICAL BEHIND HOLD 4" SPACE BETWEEN SIDE OF REFRIGERATOR AND WALL TO ALLOW DOOR TO OPEN GREATER THAN 90 DEGREES FOR THE REMOVAL OF VEGETABLE
A7	DRAWER TEXTURED FINISH AND PAINT REQUIRED ON GUESTROOM EXTERIOR WALL.
A8	BLOCKING IN WALL FOR ALL CASEWORK, KITCHEN CABINETS, HEADBOARD, TV AND TV TRIM, SHOE CUBBY, MIRROR, CLOSET SYSTEM, FIXTURES, TOWEL BAR LADDER, GRAB BARS AND ACCESSORIES. COORDINATE LOCATION WITH MANUFACTURERS INSTALLATION REQUIREMENTS.
A9	INDICATE OUTLET LOCATION WITHIN WALL CONSTRUCTION TO AVOID OUTLETS OCCURING IN SAME CAVITY WITHIN PARTITION. SEE DETAIL ON STC DIAGRAM ON G-102.
A10	PROVIDE BLOCKING IN CEILING/WALL FOR SHADE MOUNT, TOP OF SHADE MOUNT ABUTTS CEILING WHERE CEILING IS 8'-0" & 9'-0". COORDINATE LOCATION WITH MANUFACTURER'S INSTALLATION REQUIREMENTS.
A20	PROVIDE WALL STOPS WHERE REQUIRED. PROVIDE WALL STOP BEHIND GUESTROOM ENTRY DOOR. REFER TO GUESTROOM OR PUBLIC SPACE BPM FOR DOOR HARDWARE.
A23	TV NICHE DETAIL DOES NOT APPLY TO EXTERIOR WALLS; TVs LOCATED ON EXTERIOR WALLS SHOULD BE SURFACE MOUNTED WITH FF&E TRIM X-226, REFER TO INTERIOR DESIGN SPECIFICATIONS MANUAL. TVs LOCATED IN THE DEMISING WALLS HAVE THE OPTION BETWEEN PROVIDING A NICHE WITH A SOUND BARRIER (REFER TO DETAIL 3/552) OR THE FF&E TRIM X-226. COORDINATE WITH THE INTERIOR DESIGN SPECIFICATION MANUAL WHEN PROVIDING X-226
A136	TV MOUNT COVER TO BE MOUNTED AT OPPOSITE OF ENTRY DOOR.
E1	GANG OUTLETS & SWITCHES AT THE LOCATION @ HEIGHT SHOWN. SEE TYPICAL GUESTROOM OUTLET HEIGHT IN G-300s.
E5	OUTLETS FOR TV, CABLE AND POWER FOR TV TO BE MOUNTED IN OPENING OF WALL MOUNTED TV PANEL. SEE DETAILS SHEET 552 OR B552 FOR TV OPENING DETAIL.
E6	PTAC FOR TYPICAL GUEST ROOM HVAC. SEE DETAILS ON 222 OR B222 FOR PTAC AND WALL SLEEVE INFORMATION.
E7	ELECTRIC PANEL, TO BE PAINTED SAME COLOR AS SURROUNDING WALL. INSTALL AS CLOSE AS POSSIBLE TO THE ENTRY DOOR WALL.
E9	THERMOSTAT. LOCATE THERMOSTAT WITH INTEGRAL OCCUPANCY SENSOR FACING SLEEPING AREA. COORDINATE WITH THE GUESTROOM MANAGEMENT SYSTEM (GRMS). SEE TYPICAL GUESTROOM OUTLET HEIGHT DETAILS ON G-300s AND ROOM ELEVATION FOR ADDITIONAL INFORMATION.
E18	TWO-TOGGLE SWITCH FOR GARBAGE DISPOSAL, AND UNDERCABINET LIGHT. PROVIDE JBOX(S) FOR MILLWORK LIGHTING, RE: ELEC.
E19	PROVIDE OUTLET FOR WALL SCONCE AT HEADBOARD WHERE SHOWN IN ELEVATION. SWITCH LOCATED ON LIGHT FIXTURE.
ID1	TEXTURED WALL COATING IS THE REQUIRED FINISH FOR EXTERIOR GUESTROOM WALLS.
ID2	ALL EXTERIOR CORNERS SHALL HAVE FULL HEIGHT CORNER GUARDS.
ID3	REFER TO INTERIOR DESIGN SPECIFICATION MANUAL WINDOW TREATMENT SPECIFICATIONS AND



PRINTS ISSUED

REVISIONS:

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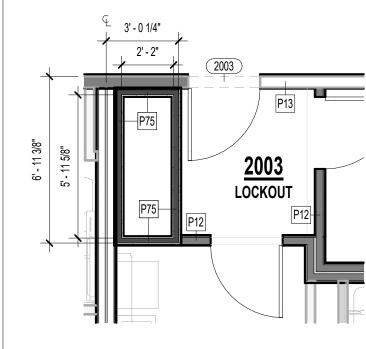


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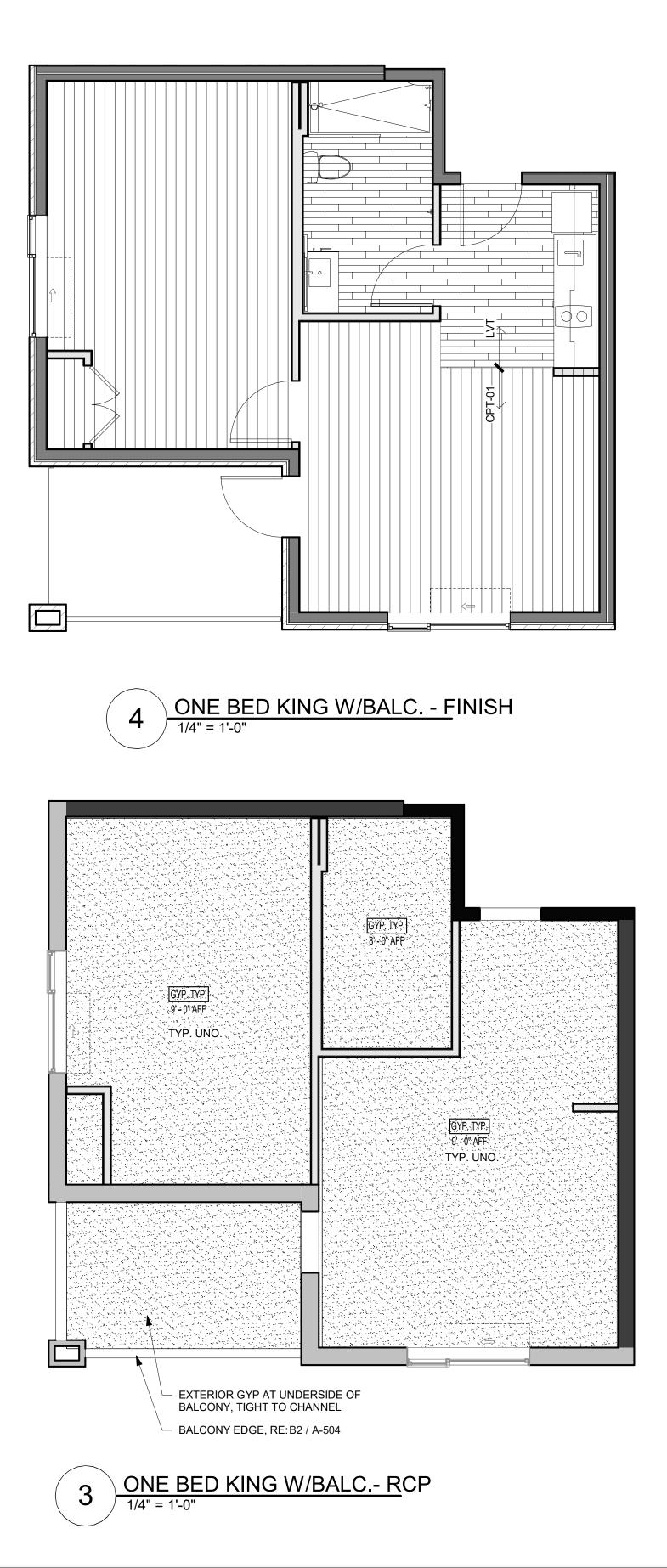
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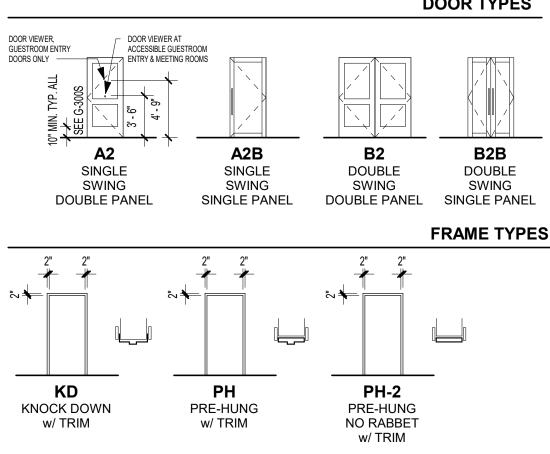
STUDIO QQ END UNIT PLAN

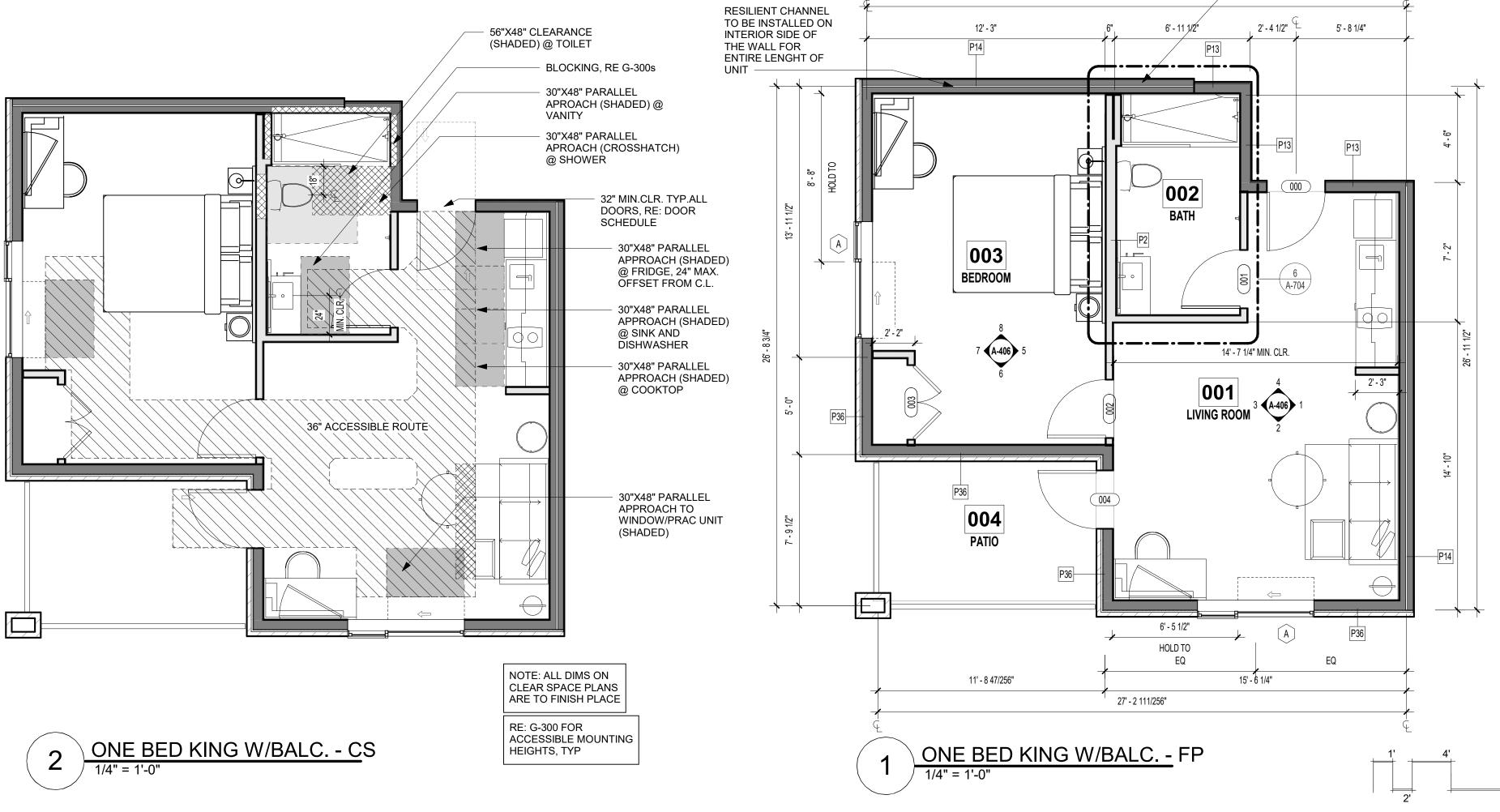
PROJECT NUMBER: 23098





			R	OOM FINISH	SCHEDUL	E - UNITS		
Nur	nber	Name	Floor Fini	sh Base	Finish	Wall Finish	Ceiling Finis	h Comments
001	L	IVING ROOM						
002	E	ATH						
003	E	EDROOM						
004	F	OITA						
			DOOR SC	HEDULE - UI	NIT DOOR	S (BY UNIT T	YPE)	
Manula				1		`````	,	Commente
Mark	Width	Height	DOOR SC Thickness	HEDULE - U		S (BY UNIT T Frame Type	YPE) Hardware Group	Comments
	Width 3' - 0"	Height 6' - 8"		Fire Rating	Door	Frame	Hardware	Comments
000			Thickness	Fire Rating (Minutes)	Door Type	Frame Type	Hardware	Comments
000 001	3' - 0"	6' - 8"	Thickness 1 3/4"	Fire Rating (Minutes)	Door Type A2	Frame Type	Hardware	Comments
Mark 000 001 002 003	3' - 0" 3' - 0"	6' - 8" 6' - 8"	Thickness 1 3/4" 1 3/8"	Fire Rating (Minutes)	Door Type A2 B	Frame Type	Hardware	Comments





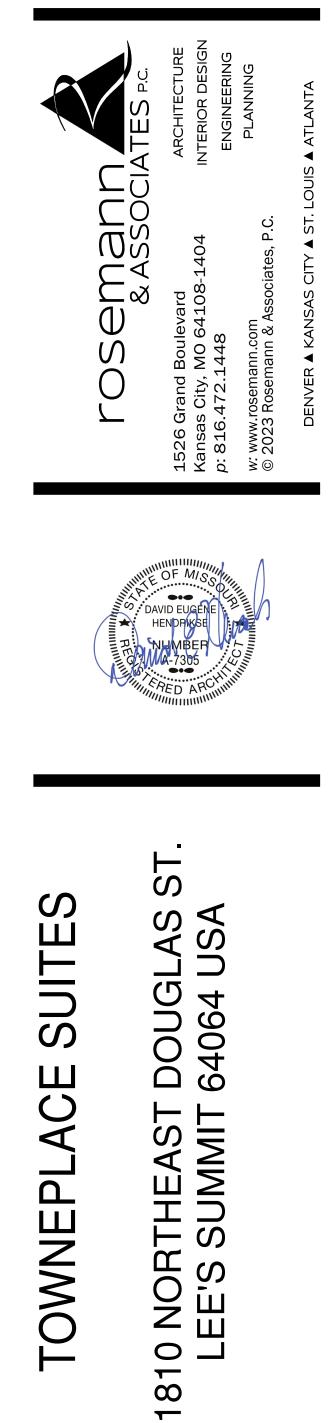
REFERENCE A-101 FOR PLAN LEGEND REFERENCE G-003 FOR GENERAL NOTES

WHAT BATHROOM DETAIL TO USE HERE?

27' - 9 1/4" CENTERLINE OF DEMISING WALL

PRINTS ISSUED 11/01/2023 - CITY SUBMITTAL **REVISIONS:**

DOOR TYPES

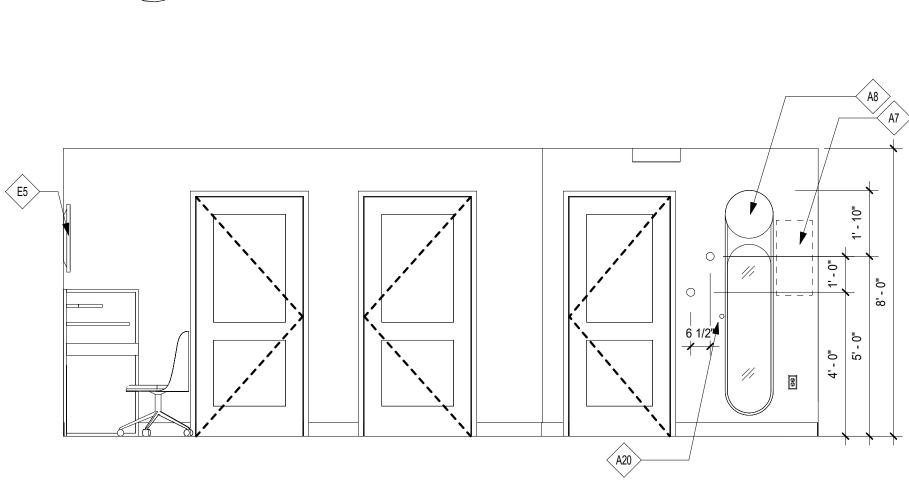


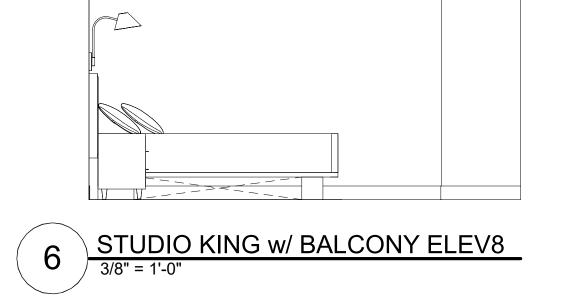
SHEET TITLE

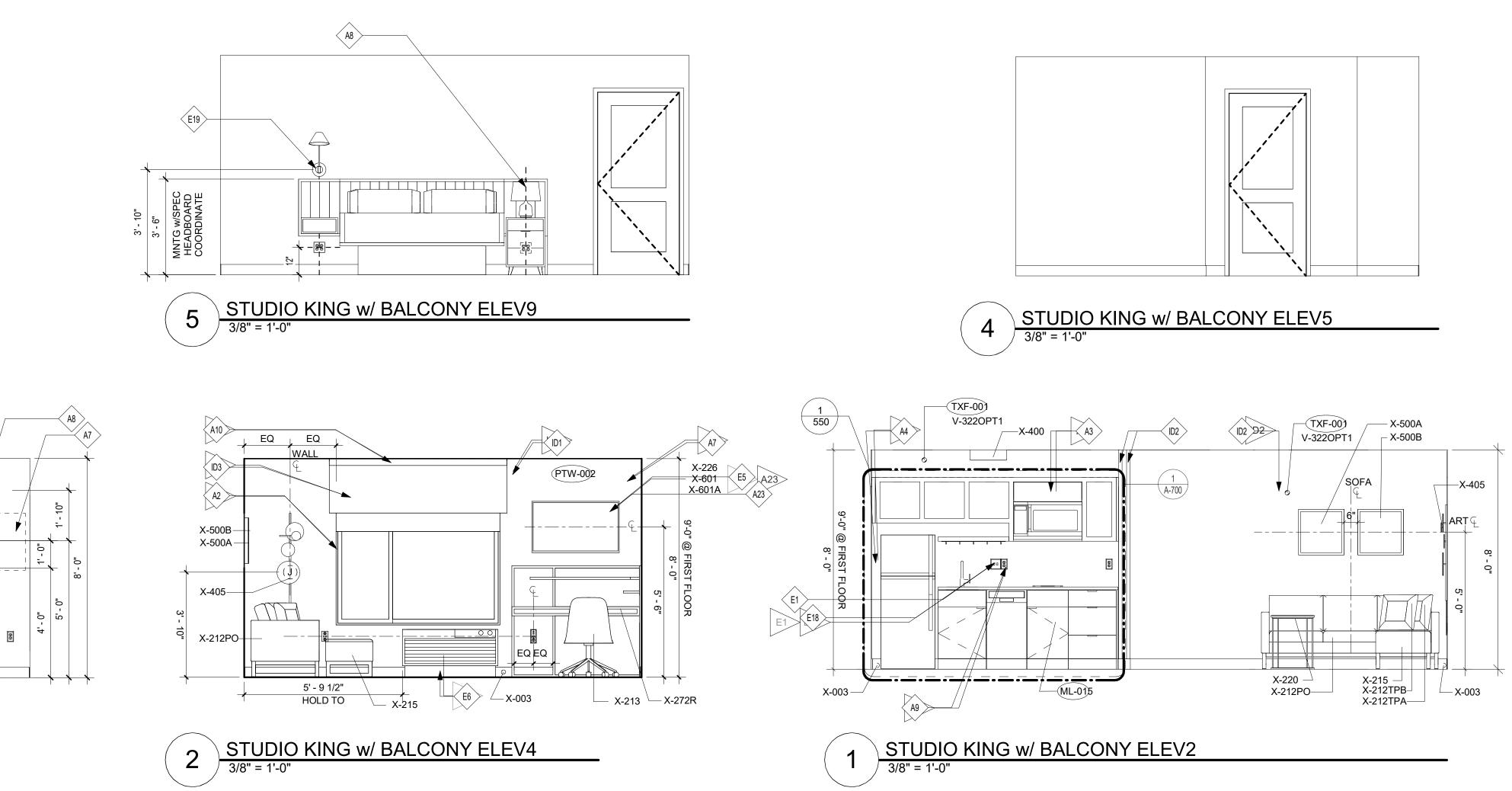
ONE BED KING UNIT PLAN W/ BALCONY

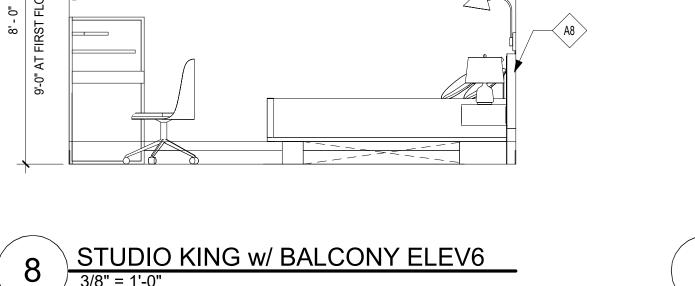
PROJECT NUMBER: 23098

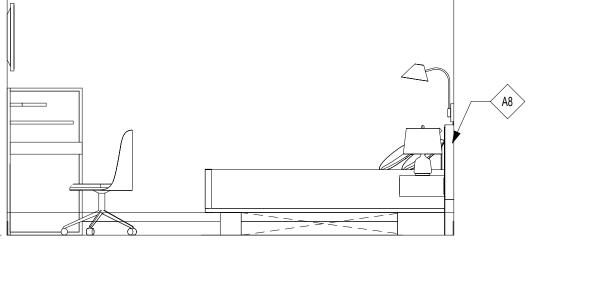


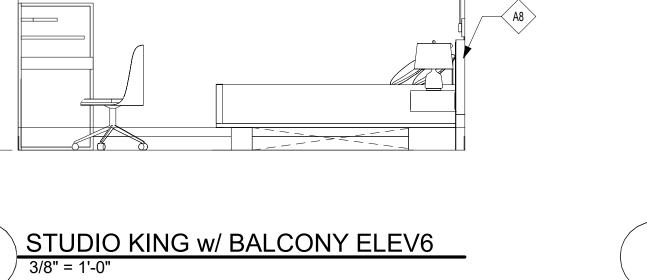




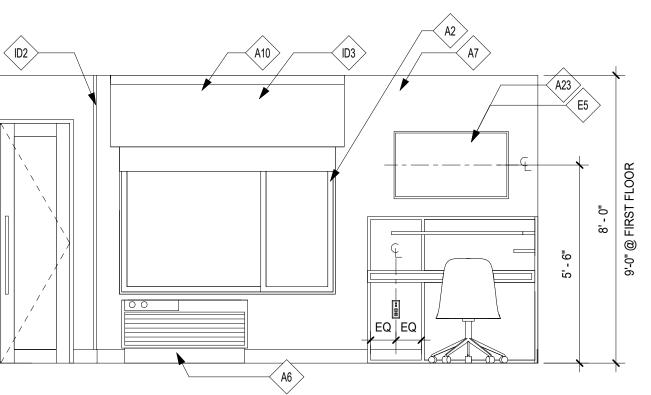












STUDIO KING w/ BALCONY ELEV7

KE	YNOTE LEGEND
A2	LOCATE SHADE PULLS OPPOSITE SIDE OF PTAC UNIT
A3	FALSE PANEL WITH ACCESS TO ELECTRICAL BEHIND
A4	HOLD 4" SPACE BETWEEN SIDE OF REFRIGERATOR AND WALL TO ALLOW DOOR TO OPEN GREATER THAN 90 DEGREES FOR THE REMOVAL OF VEGETABLE DRAWER
A6	OVERALL KITCHEN CABINET LENGTH TO BE ORDERED TO FIT WALL INCLUDING FILLERS ON BOTH ENDS. ALLOW FOR APPROXIMATELY 1" TO 1-1/2" OF SPACE ON BOTH ENDS FOR RECESSED FILLERS. REFER TO DETAILS 7 & 8/550.
A7	TEXTURED FINISH AND PAINT REQUIRED ON GUESTROOM EXTERIOR WALL.
A8	BLOCKING IN WALL FOR ALL CASEWORK, KITCHEN CABINETS, HEADBOARD, TV AND TV TRIM, SHOE CUBBY, MIRROR, CLOSET SYSTEM, FIXTURES, TOWEL BAR LADDER, GRAB BARS AND ACCESSORIES. COORDINATE LOCATION WITH MANUFACTURERS INSTALLATION REQUIREMENTS.
A9	INDICATE OUTLET LOCATION WITHIN WALL CONSTRUCTION TO AVOID OUTLETS OCCURING IN SAME CAVITY WITHIN PARTITION. SEE DETAIL ON STC DIAGRAM ON G-102.
A10	PROVIDE BLOCKING IN CEILING/WALL FOR SHADE MOUNT, TOP OF SHADE MOUNT ABUTTS CEILING WHERE CEILING IS 8'-0" & 9'-0". COORDINATE LOCATION WITH MANUFACTURER'S INSTALLATION REQUIREMENTS.
A20	PROVIDE WALL STOPS WHERE REQUIRED. PROVIDE WALL STOP BEHIND GUESTROOM ENTRY DOOR. REFER TO GUESTROOM OR PUBLIC SPACE BPM FOR DOOR HARDWARE.
A23	TV NICHE DETAIL DOES NOT APPLY TO EXTERIOR WALLS; TVs LOCATED ON EXTERIOR WALLS SHOULD BE SURFACE MOUNTED WITH FF&E TRIM X-226, REFER TO INTERIOR DESIGN SPECIFICATIONS MANUAL. TVs LOCATED IN THE DEMISING WALLS HAVE THE OPTION BETWEEN PROVIDING A NICHE WITH A SOUND BARRIER (REFER TO DETAIL 3/552) OR THE FF&E TRIM X-226. COORDINATE WITH THE INTERIOR DESIGN SPECIFICATION MANUAL WHEN PROVIDING X-226
E1	GANG OUTLETS & SWITCHES AT THE LOCATION @ HEIGHT SHOWN. SEE TYPICAL GUESTROOM OUTLET HEIGHT IN G-300s.
E5	OUTLETS FOR TV, CABLE AND POWER FOR TV TO BE MOUNTED IN OPENING OF WALL MOUNTED TV PANEL. SEE DETAILS SHEET 552 OR B552 FOR TV OPENING DETAIL.
E6	PTAC FOR TYPICAL GUEST ROOM HVAC. SEE DETAILS ON 222 OR B222 FOR PTAC AND WALL SLEEVE INFORMATION.
E18	TWO-TOGGLE SWITCH FOR GARBAGE DISPOSAL, AND UNDERCABINET LIGHT. PROVIDE JBOX(S) FOR MILLWORK LIGHTING, RE: ELEC.
E19	PROVIDE OUTLET FOR WALL SCONCE AT HEADBOARD WHERE SHOWN IN ELEVATION. SWITCH LOCATED ON LIGHT FIXTURE.
ID1	TEXTURED WALL COATING IS THE REQUIRED FINISH FOR EXTERIOR GUESTROOM WALLS.
ID2	ALL EXTERIOR CORNERS SHALL HAVE FULL HEIGHT CORNER GUARDS.
ID3	REFER TO INTERIOR DESIGN SPECIFICATION MANUAL WINDOW TREATMENT SPECIFICATIONS AND ELEVATIONS FOR ROLLER SHADE INFORMATION

PRINTS ISSUED 11/01/2023 - CITY SUBMITTAL **REVISIONS**:





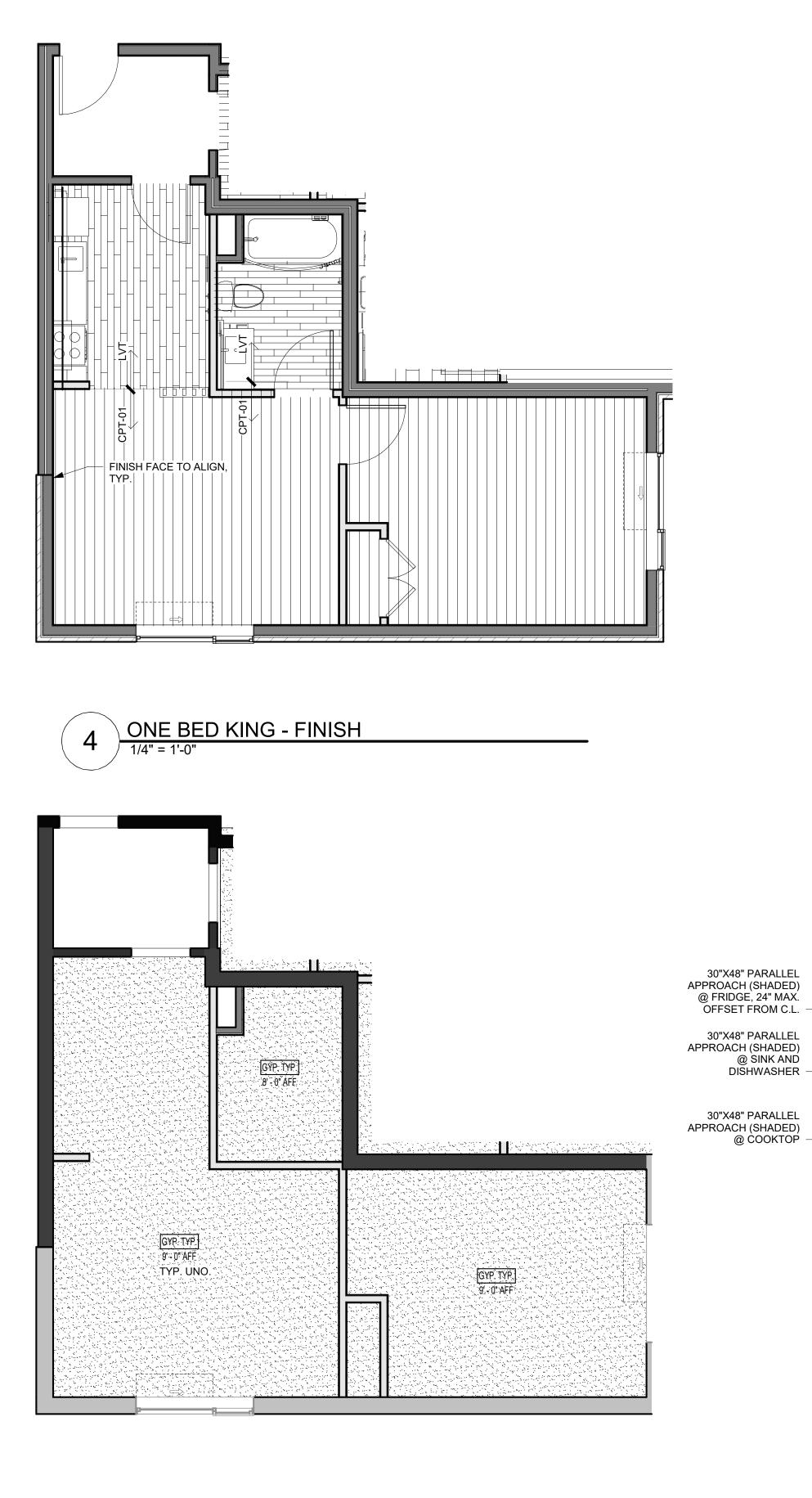
TOWNEPLACE SUITES

ST. DOUGLAS 64064 USA 1810 NORTHEAST LEE'S SUMMIT

SHEET TITLE ONE BED KING UNIT PLAN W/ BALCONY-INT ELEV

PROJECT NUMBER: 23098

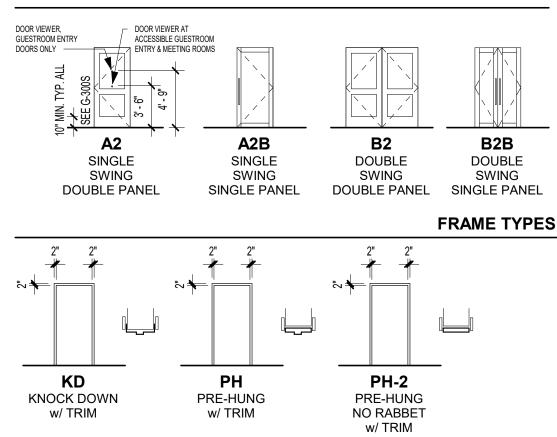


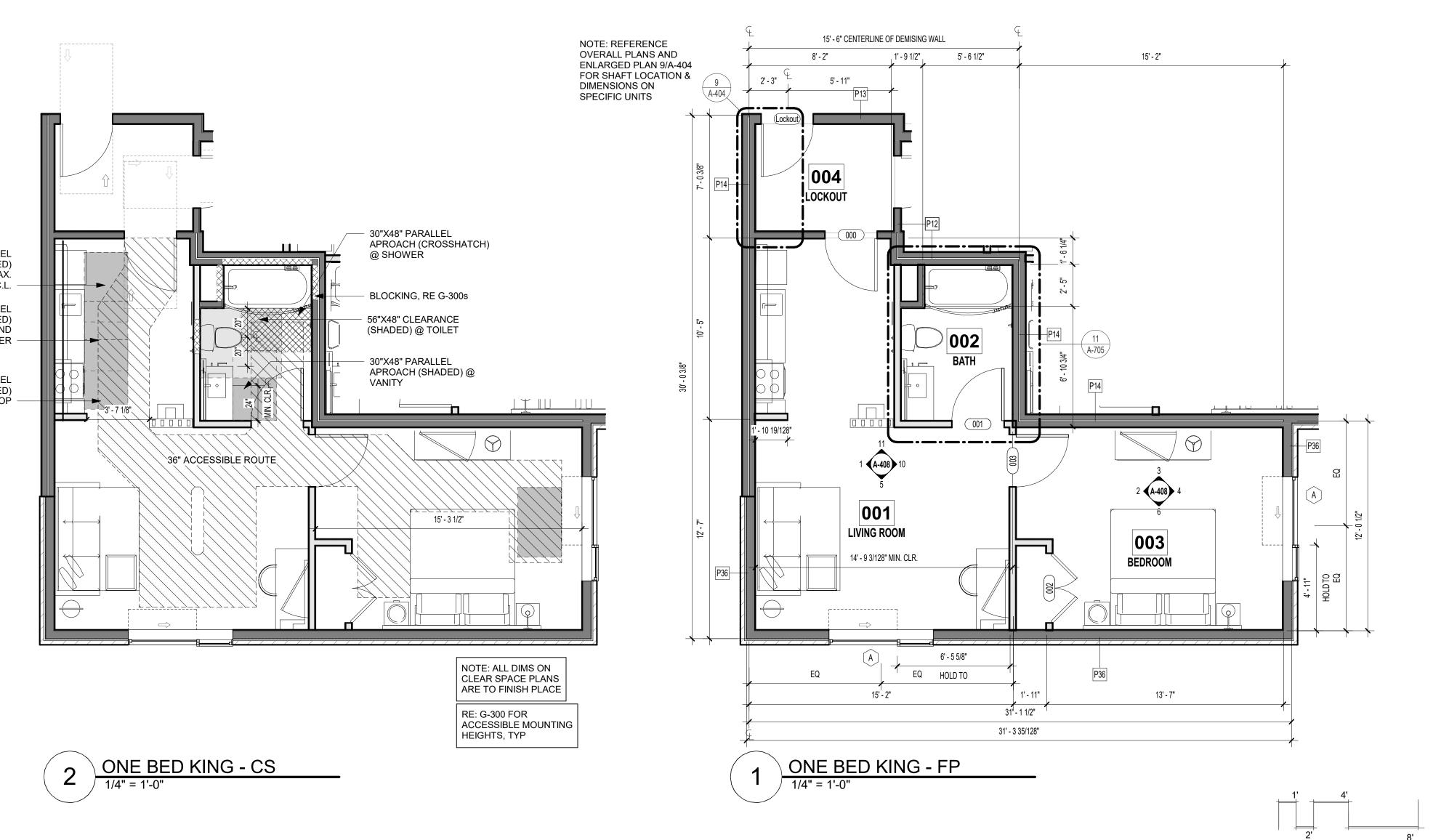




Number	Name	Floor Finish	Base Finish	Wall Finish	Ceiling Finish	Comments
001	LIVING ROOM					
001	LIVING ROOM					
001	LIVING ROOM					
002	BATH					
002	BATH					
003	BEDROOM					
004	LOCKOUT					

Mark	Width	Height	Thickness	Fire Rating (Minutes)	Door Type	Frame Type	Hardware Group	Comments
000	3' - 0"	6' - 8"	1 3/4"	20	A2	HM		
000	3' - 0"	6' - 8"	1 3/4"	20	A2	HM		
001	3' - 0"	6' - 8"	1 3/4"		A2			
001	3' - 0"	6' - 8"	1 3/4"		A2			
002	4' - 0"	6' - 8"	1 3/4"		B2			
003	3' - 0"	6' - 8"	1 3/4"		A2			
Lockout	3' - 0"	6' - 8"	1 3/4"		A2			

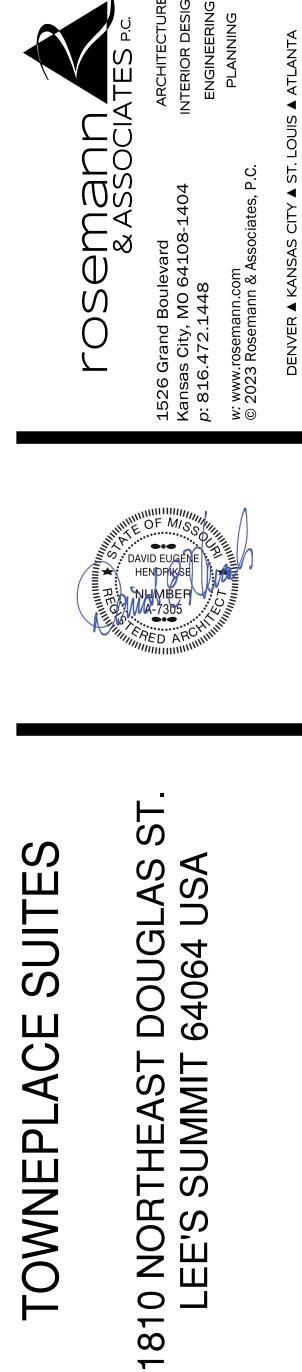




REFERENCE G-003 FOR GENERAL NOTES

DOOR TYPES

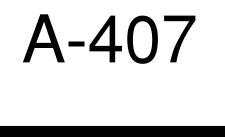
PRINTS ISSUED 11/01/2023 - CITY SUBMITTAL **REVISIONS:**

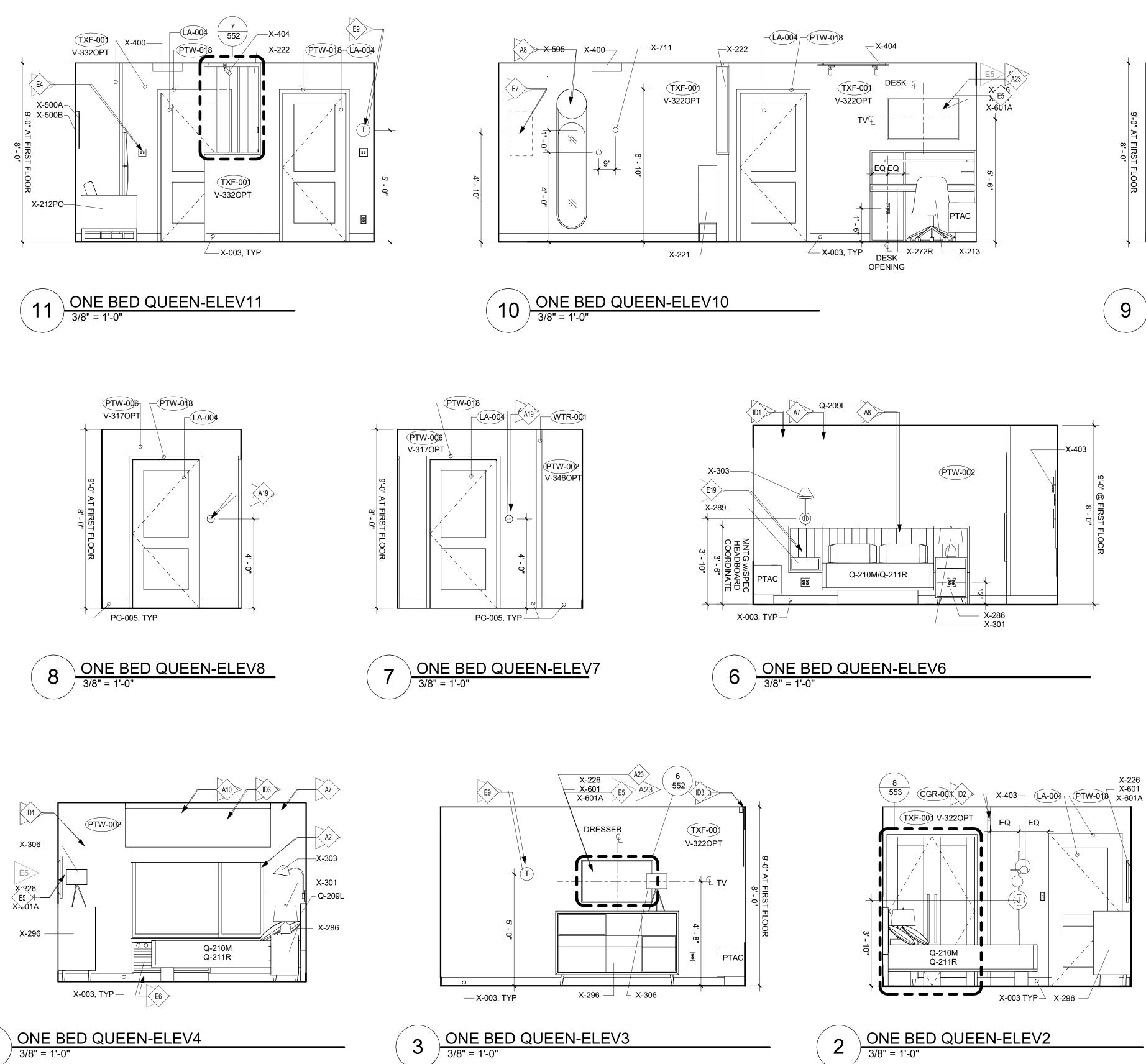


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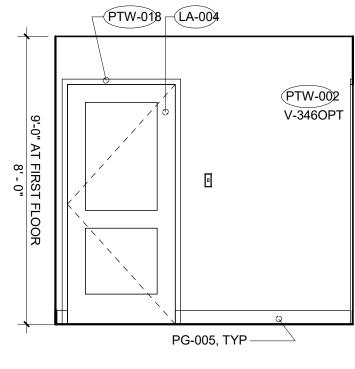
ONE BED KING UNIT PLAN

PROJECT NUMBER: 23098

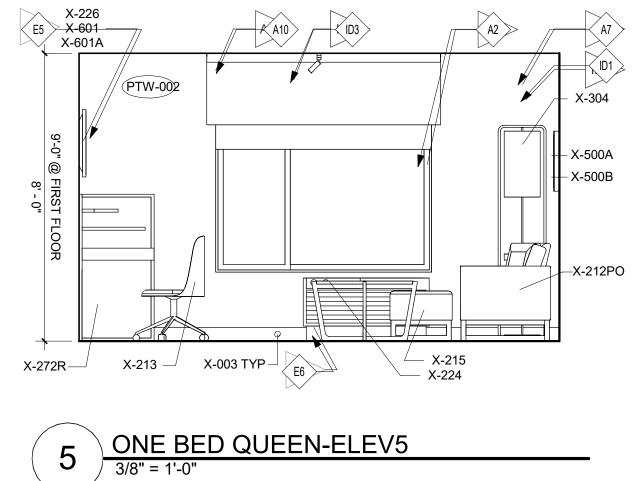


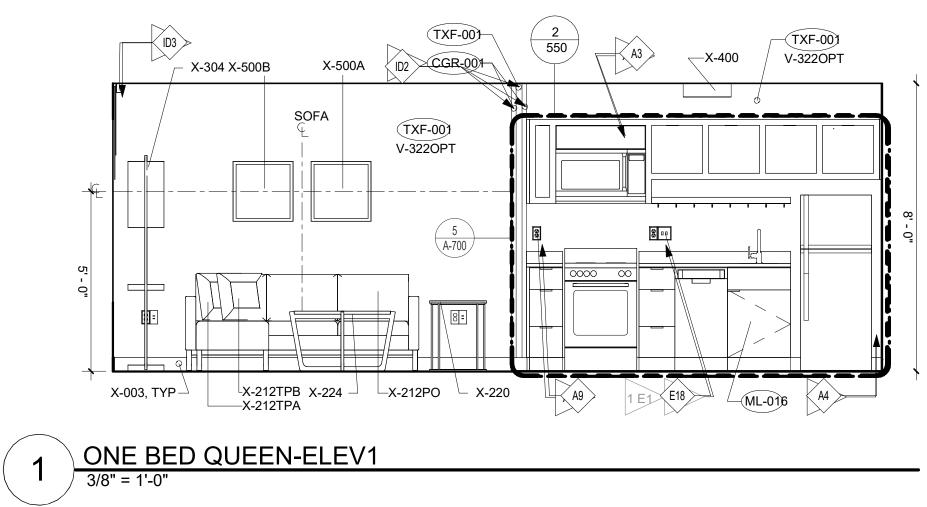


4









NE	EYNOTE LEGEND
A2	LOCATE SHADE PULLS OPPOSITE SIDE OF PTAC UNIT
A3	FALSE PANEL WITH ACCESS TO ELECTRICAL BEHIND
A4	HOLD 4" SPACE BETWEEN SIDE OF REFRIGERATOR AND WALL TO ALLOW DOOR TO OPEN GREATER THAN 90 DEGREES FOR THE REMOVAL OF VEGETABLE DRAWER
A7	TEXTURED FINISH AND PAINT REQUIRED ON GUESTROOM EXTERIOR WALL.
48	BLOCKING IN WALL FOR ALL CASEWORK, KITCHEN CABINETS, HEADBOARD, TV AND TV TRIM, SHOE CUBBY, MIRROR, CLOSET SYSTEM, FIXTURES, TOWEL BAR LADDER, GRAB BARS AND ACCESSORIES. COORDINATE LOCATION WITH MANUFACTURERS INSTALLATION REQUIREMENTS.
A9	INDICATE OUTLET LOCATION WITHIN WALL CONSTRUCTION TO AVOID OUTLETS OCCURING IN SAME CAVITY WITHIN PARTITION. SEE DETAIL ON STC DIAGRAM ON G-102.
A10	PROVIDE BLOCKING IN CEILING/WALL FOR SHADE MOUNT, TOP OF SHADE MOUNT ABUTTS CEILING WHERE CEILING IS 8'-0" & 9'-0". COORDINATE LOCATION WITH MANUFACTURER'S INSTALLATION REQUIREMENTS.
A19	GUESTROOM SURFACE MOUNTED SIGNAGE. REFER TO INTERIOR SIGNAGE SPECIFICATIONS FOR INFORMATION.
A23	TV NICHE DETAIL DOES NOT APPLY TO EXTERIOR WALLS; TVS LOCATED ON EXTERIOR WALLS SHOULD BE SURFACE MOUNTED WITH FF&E TRIM X-226, REFER TO INTERIOR DESIGN SPECIFICATIONS MANUAL. TVS LOCATED IN THE DEMISING WALLS HAVE THE OPTION BETWEEN PROVIDING A NICHE WITH A SOUND BARRIER (REFER TO DETAIL 3/552) OR THE FF&E TRIM X-226. COORDINATE WITH THE INTERIOR DESIGN SPECIFICATION MANUAL WHEN PROVIDING X-226
E4	MASTER DEVICE OR LIGHT SWITCH WITH SIGNAGE TO CONTROL ALL HARDWIRED LIGHTS IN GUESTROOM, WITH EXCEPTION OF BATHROOM. PROVIDE SEPARATE SWITCHES FOR UPPER CABINET, UNDER SHELF, UNDER CABINET AND DECORATIVE WALL SCONCES. INTERFACE THE MASTER DEVICE WITH THE GUESTROOM MANAGEMENT SYSTEM (GRMS). SEE ELEC. & SPEC.
E5	OUTLETS FOR TV, CABLE AND POWER FOR TV TO BE MOUNTED IN OPENING OF WALL MOUNTED TV PANEL. SEE DETAILS SHEET 552 OR B552 FOR TV OPENING DETAIL.
E6	PTAC FOR TYPICAL GUEST ROOM HVAC. SEE DETAILS ON 222 OR B222 FOR PTAC AND WALL SLEEVE INFORMATION.
E7	ELECTRIC PANEL, TO BE PAINTED SAME COLOR AS SURROUNDING WALL. INSTALL AS CLOSE AS POSSIBLE TO THE ENTRY DOOR WALL.
E9	THERMOSTAT. LOCATE THERMOSTAT WITH INTEGRAL OCCUPANCY SENSOR FACING SLEEPING AREA. COORDINATE WITH THE GUESTROOM MANAGEMENT SYSTEM (GRMS). SEE TYPICAL GUESTROOM OUTLET HEIGHT DETAILS ON G-300s AND ROOM ELEVATION FOR ADDITIONAL INFORMATION.
E18	TWO-TOGGLE SWITCH FOR GARBAGE DISPOSAL, AND UNDERCABINET LIGHT. PROVIDE JBOX(S) FOR MILLWORK LIGHTING, RE: ELEC.
E19	PROVIDE OUTLET FOR WALL SCONCE AT HEADBOARD WHERE SHOWN IN ELEVATION. SWITCH LOCATED ON LIGHT FIXTURE.
ID1	TEXTURED WALL COATING IS THE REQUIRED FINISH FOR EXTERIOR GUESTROOM WALLS.
ID2	ALL EXTERIOR CORNERS SHALL HAVE FULL HEIGHT CORNER GUARDS.
ID3	REFER TO INTERIOR DESIGN SPECIFICATION MANUAL WINDOW TREATMENT SPECIFICATIONS AND ELEVATIONS FOR ROLLER SHADE INFORMATION

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ACE SUITES TOWNEPL

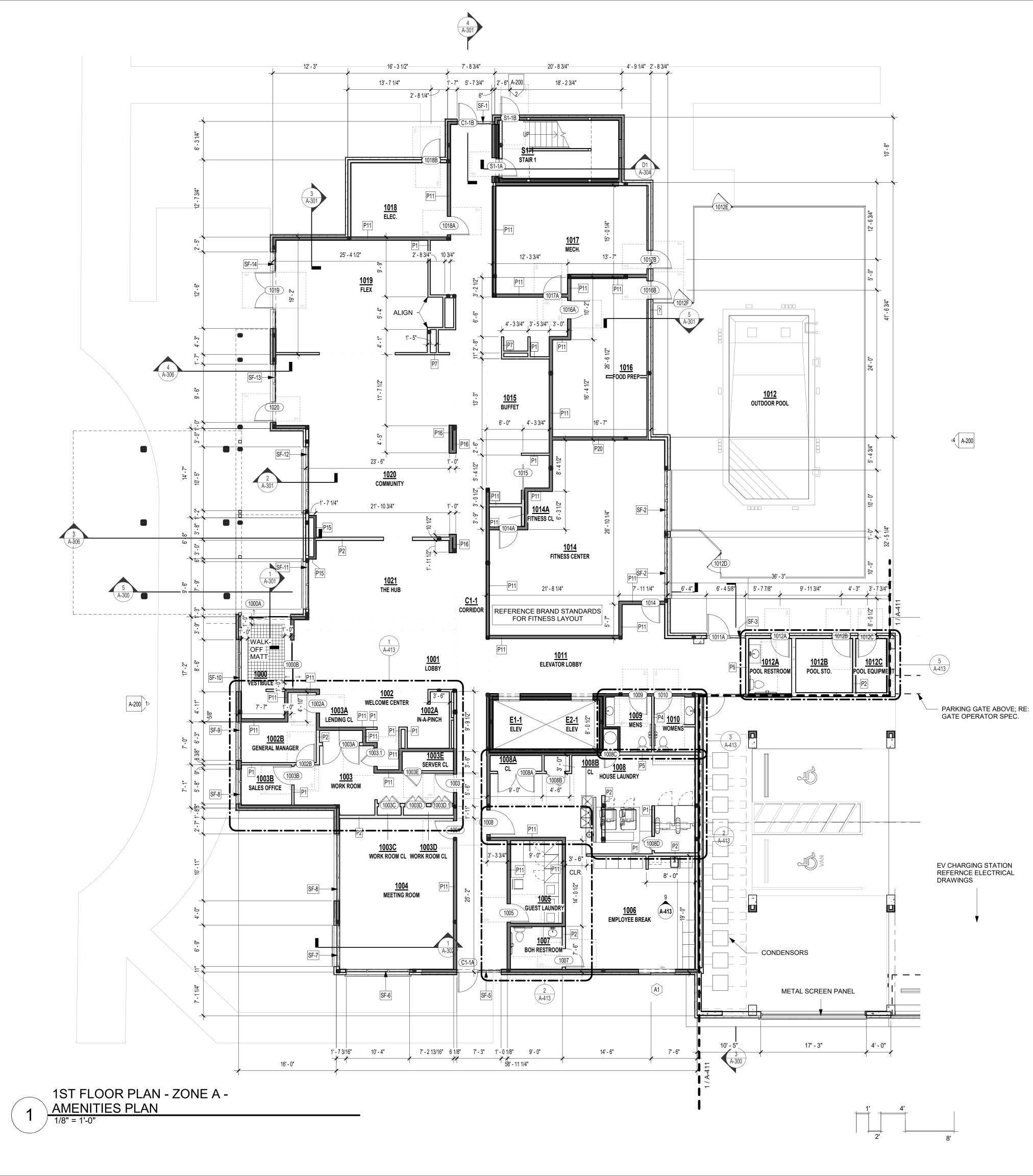
ST. DOUGLAS 64064 USA 1810 NORTHEAST LEE'S SUMMIT

SHEET TITLE

ONE BED QUEEN UNIT INT ELEVS

PROJECT NUMBER: 23098















ACE SUITES TOWNEPL

SHEET TITLE

SHEET NUMBER:

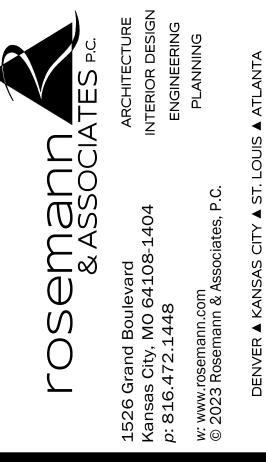
ENLARGED 1ST FLOOR PLAN -COMMON AREAS

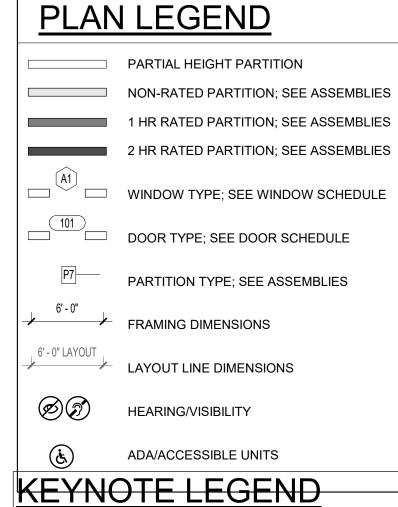
A-410

PROJECT NUMBER: 23098

ST DOUGLAS 64064 USA 1810 NORTHEAST LEE'S SUMMIT



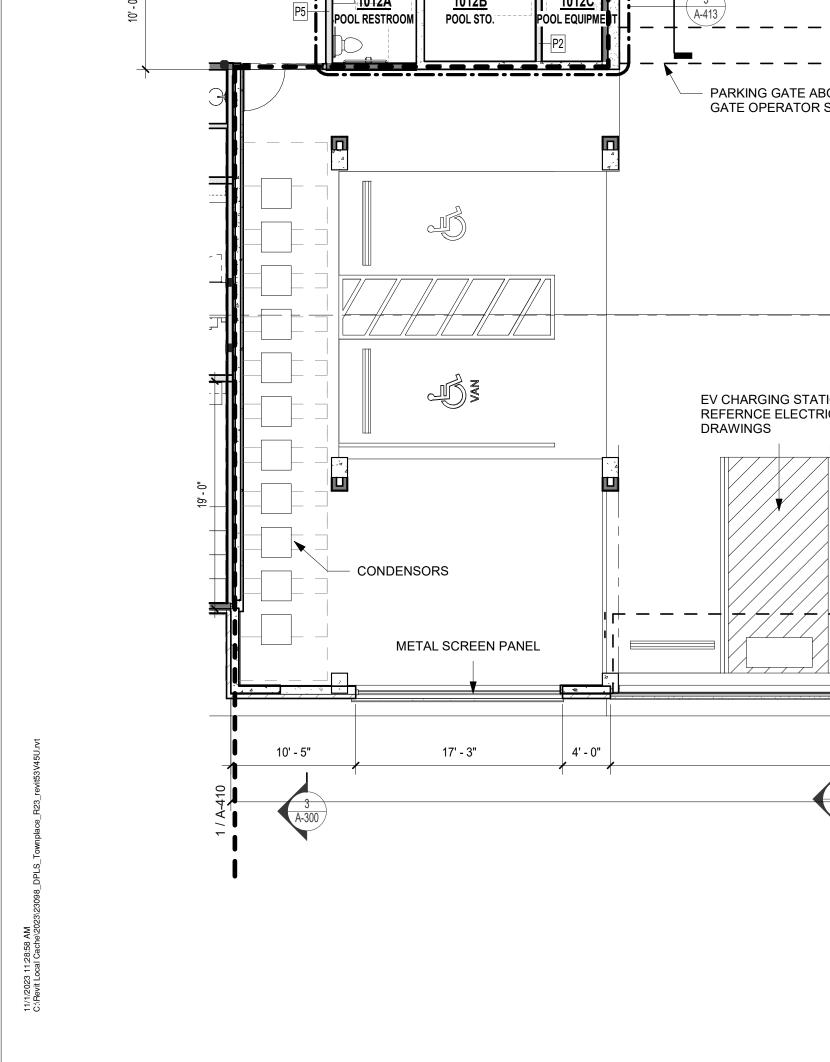




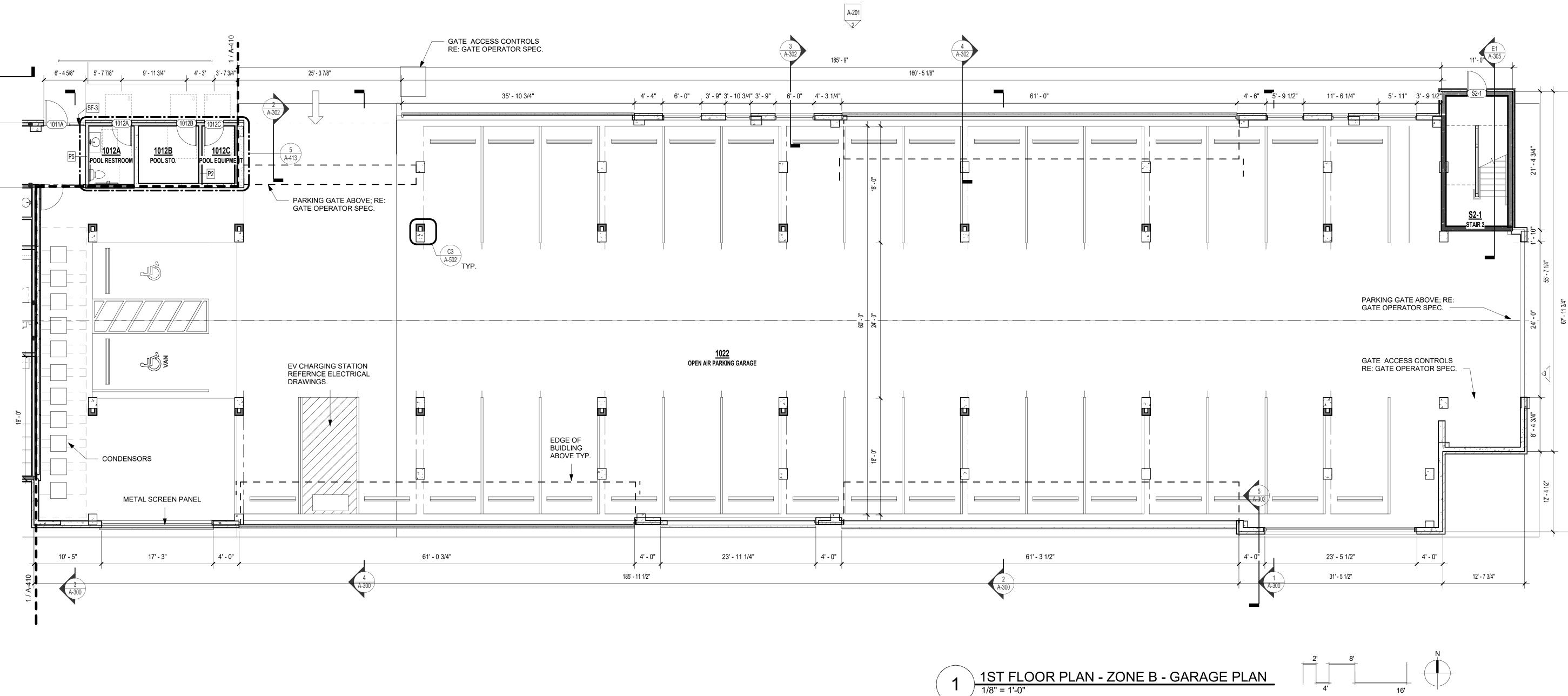
REFERENCE G-003 FOR GENERAL NOTES

PRINTS ISSUED 11/01/2023 - CITY SUBMITTAL

REVISIONS:



4-300





SHEET TITLE

SHEET NUMBER:

ENLARGED 1ST FLOOR PLAN -GARAGE PLAN

A-411

PROJECT NUMBER: 23098

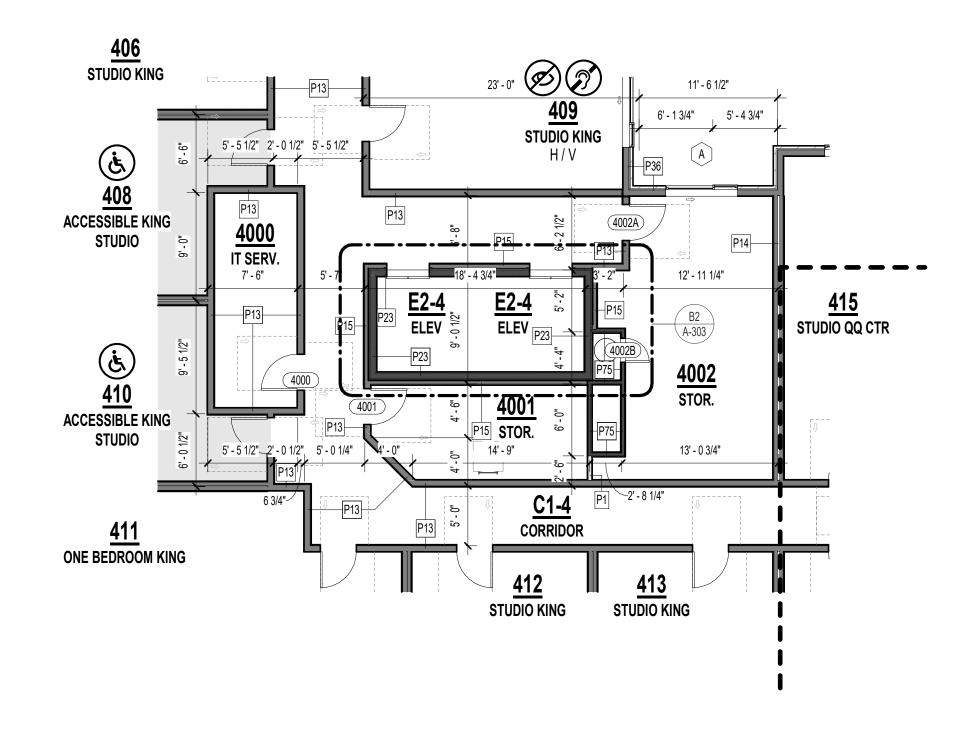


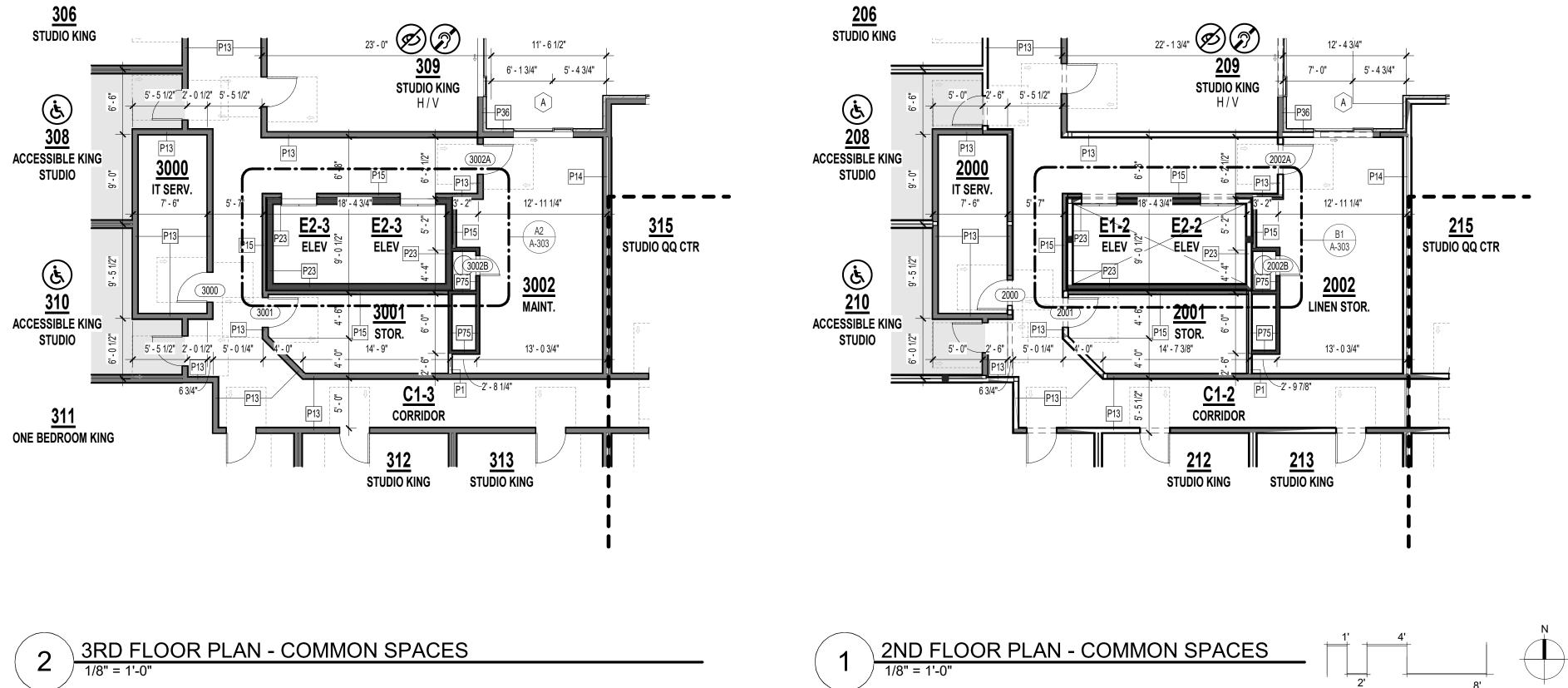


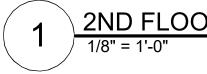
REFERENCE G-003 FOR GENERAL NOTES REFERENCE A-410 FOR PLAN LEGEND

REVISIONS:

PRINTS ISSUED 11/01/2023 - CITY SUBMITTAL







ACE SUITES TOWNEPL

SHEET TITLE ENLARGED 3RD FLOOR PLAN -COMMON AREAS

PROJECT NUMBER: 23098

SHEET NUMBER:



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DOUGLAS 64064 USA

1810 NORTHEAST LEE'S SUMMIT

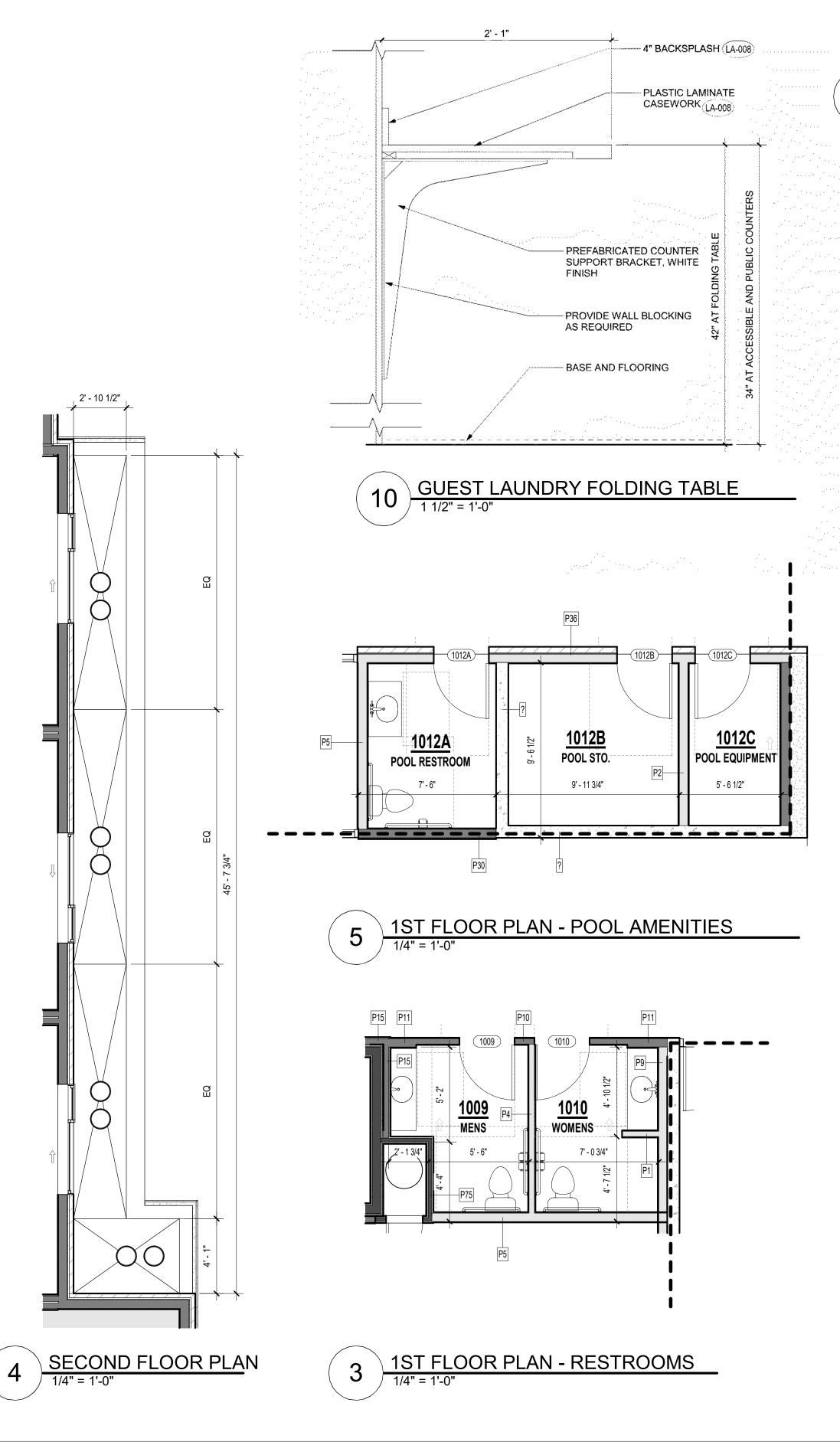
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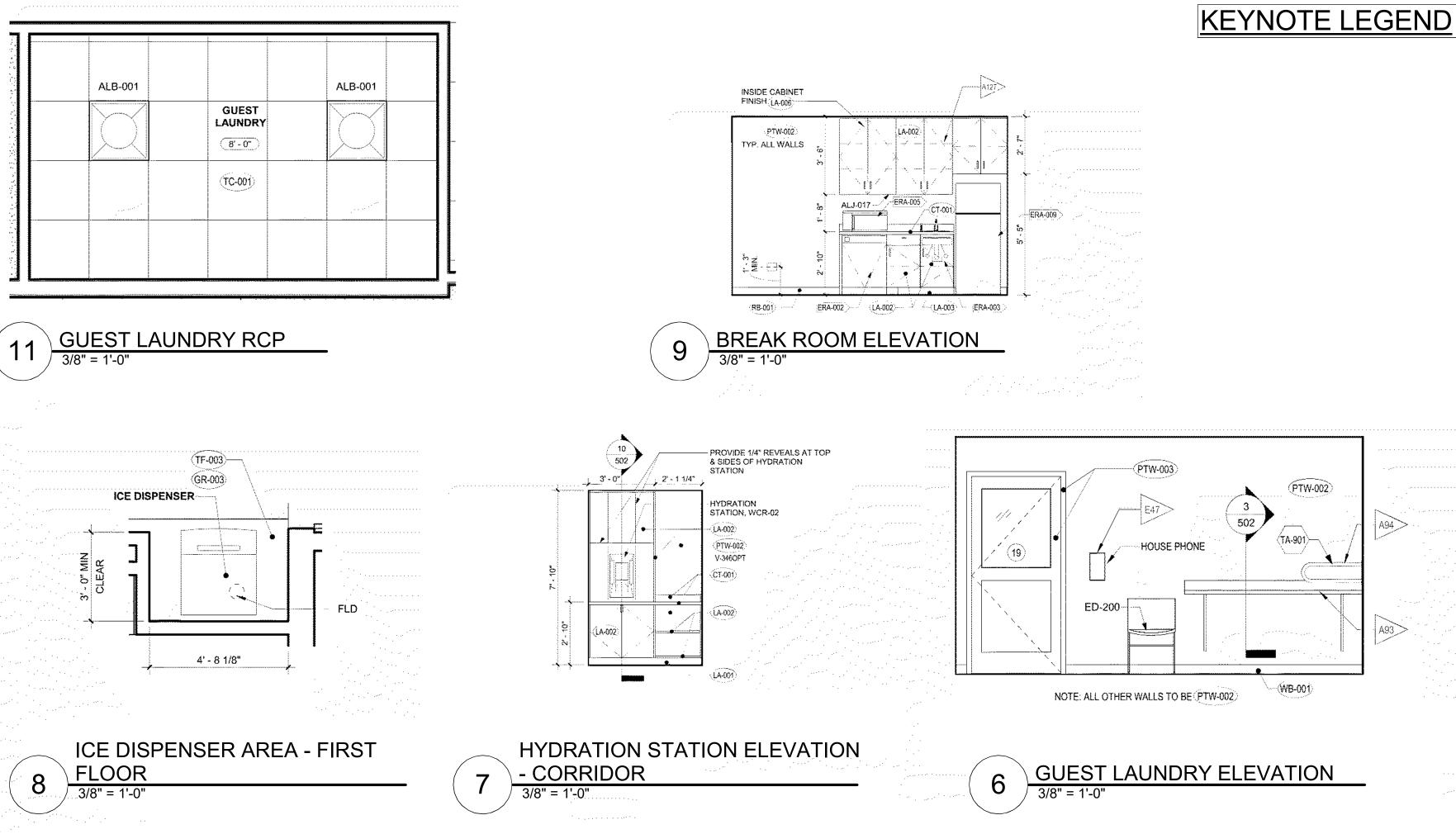
KEYNOTE LEGEND

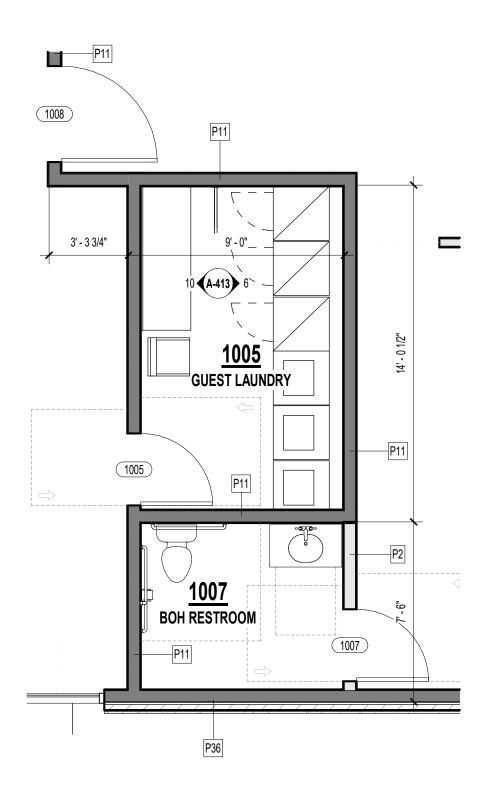
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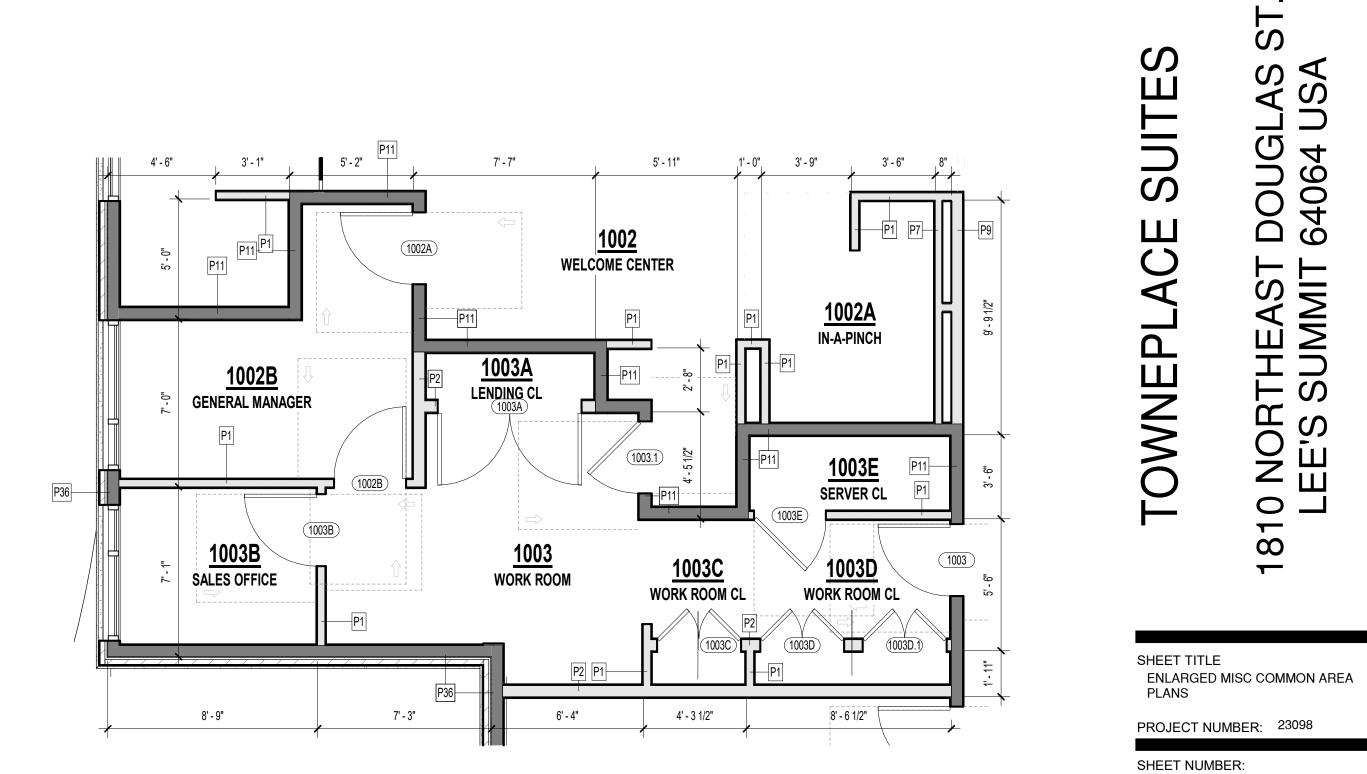
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PRINTS ISSUED 11/01/2023 - CITY SUBMITTAL



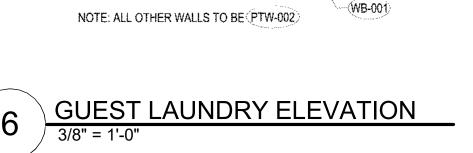












REFERENCE G-003 FOR GENERAL NOTES REFERENCE A-410 FOR PLAN LEGEND

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1810 NORTHEAST DOUGLAS LEE'S SUMMIT 64064 USA

PROJECT NUMBER: 23098

A-413

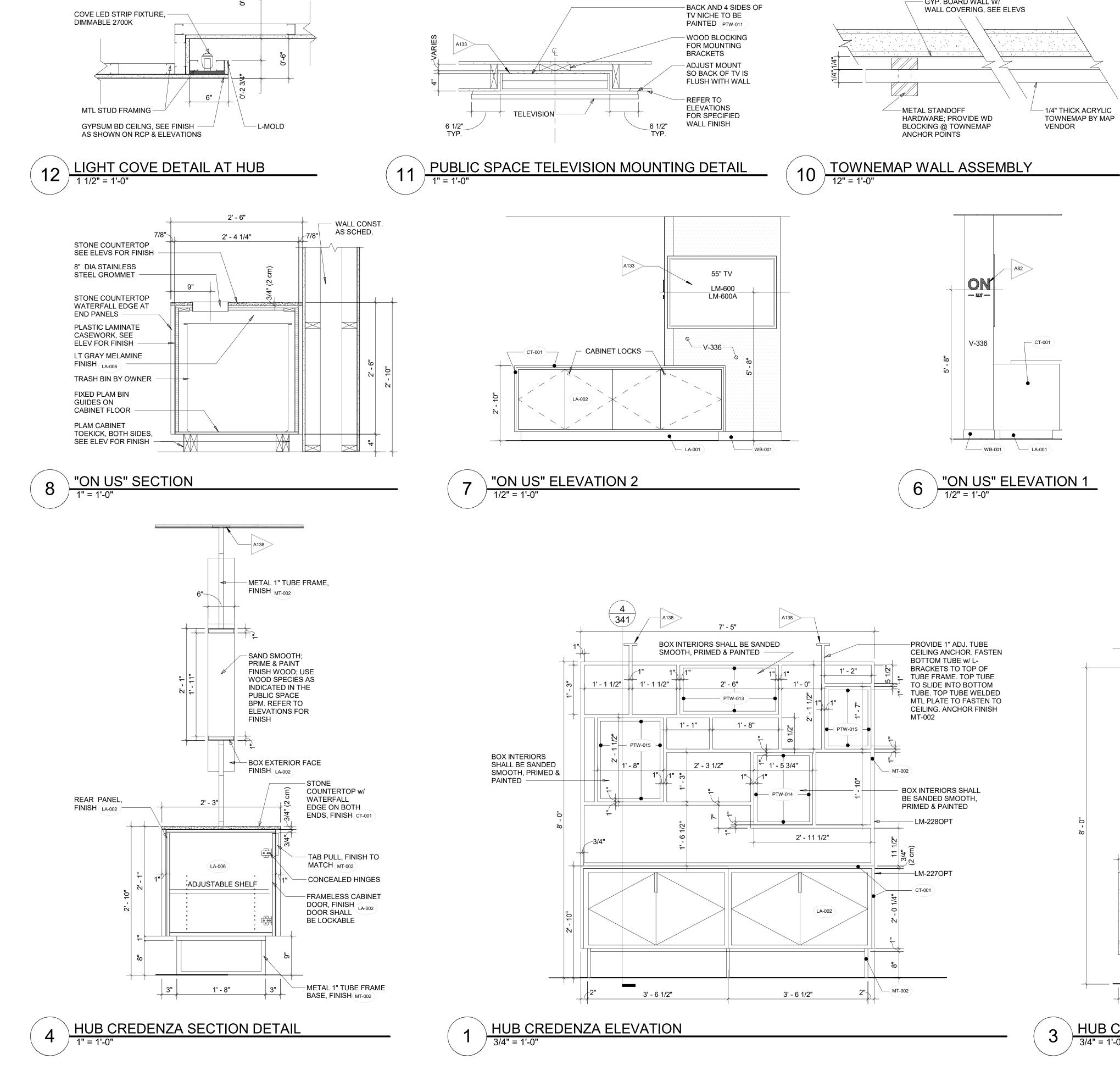
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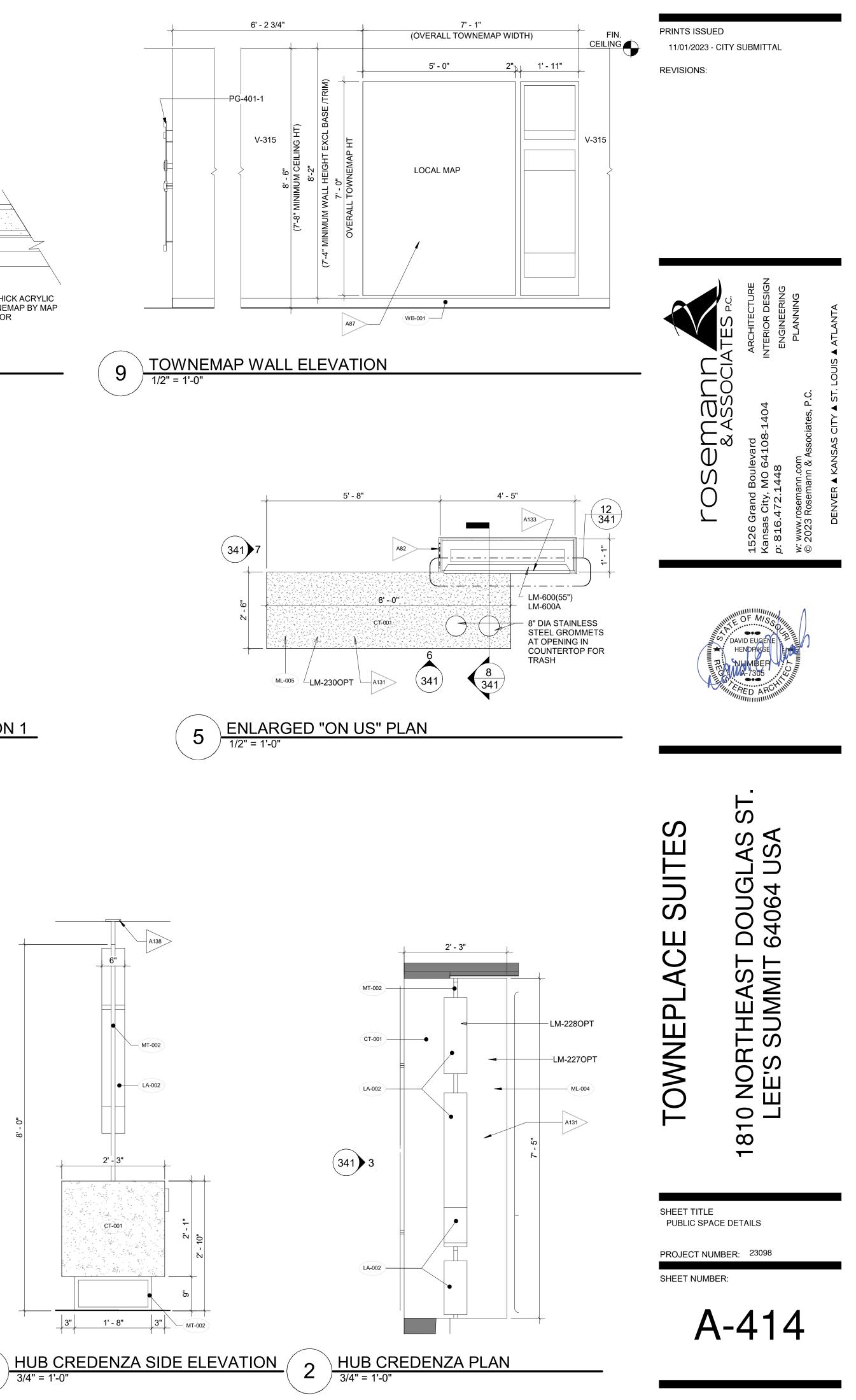
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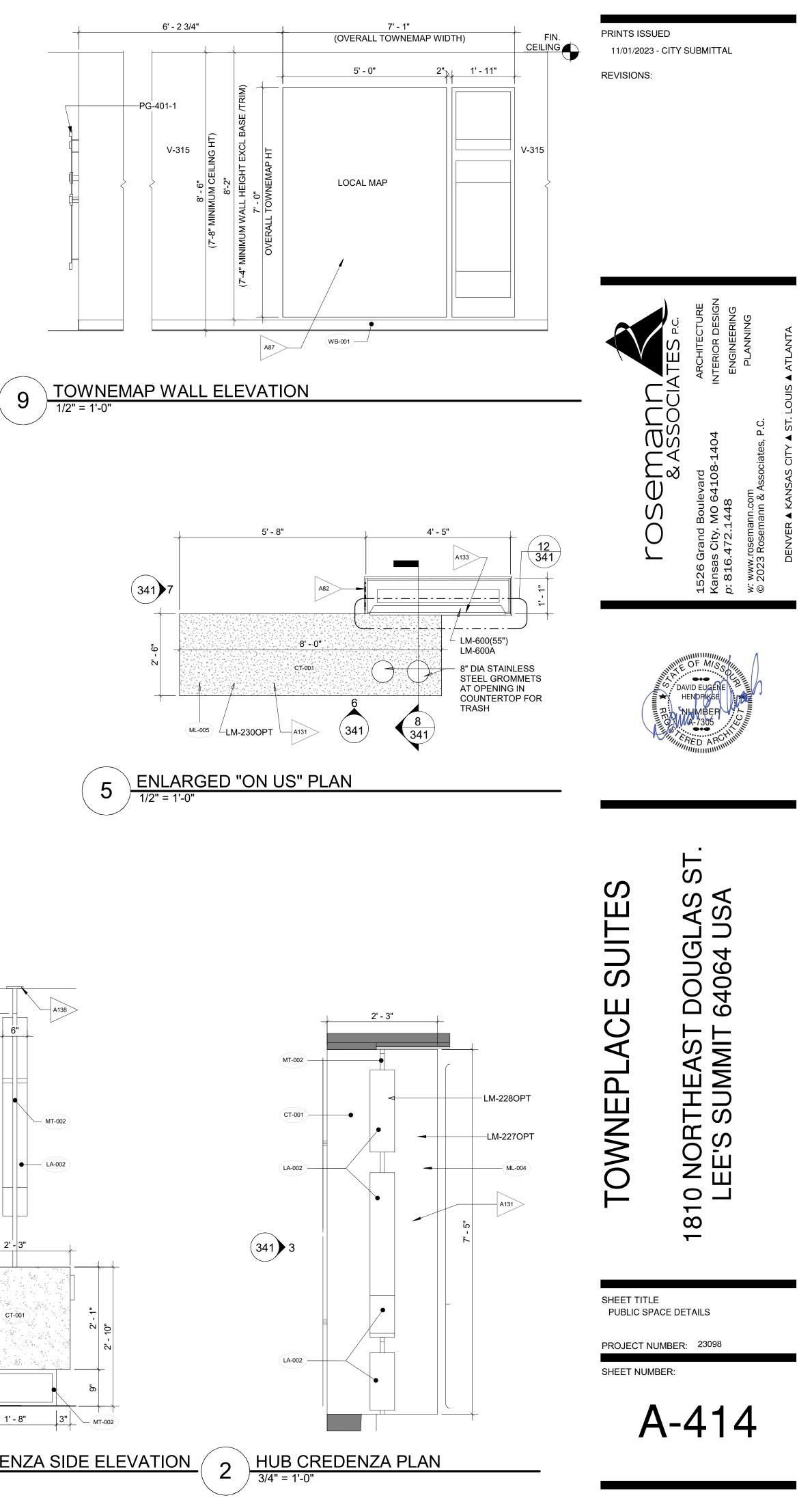
11/01/2023 - CITY SUBMITTAL

REVISIONS:

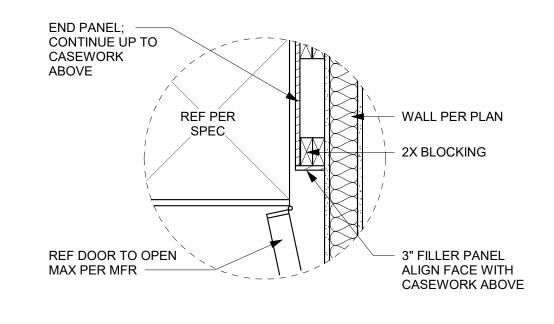
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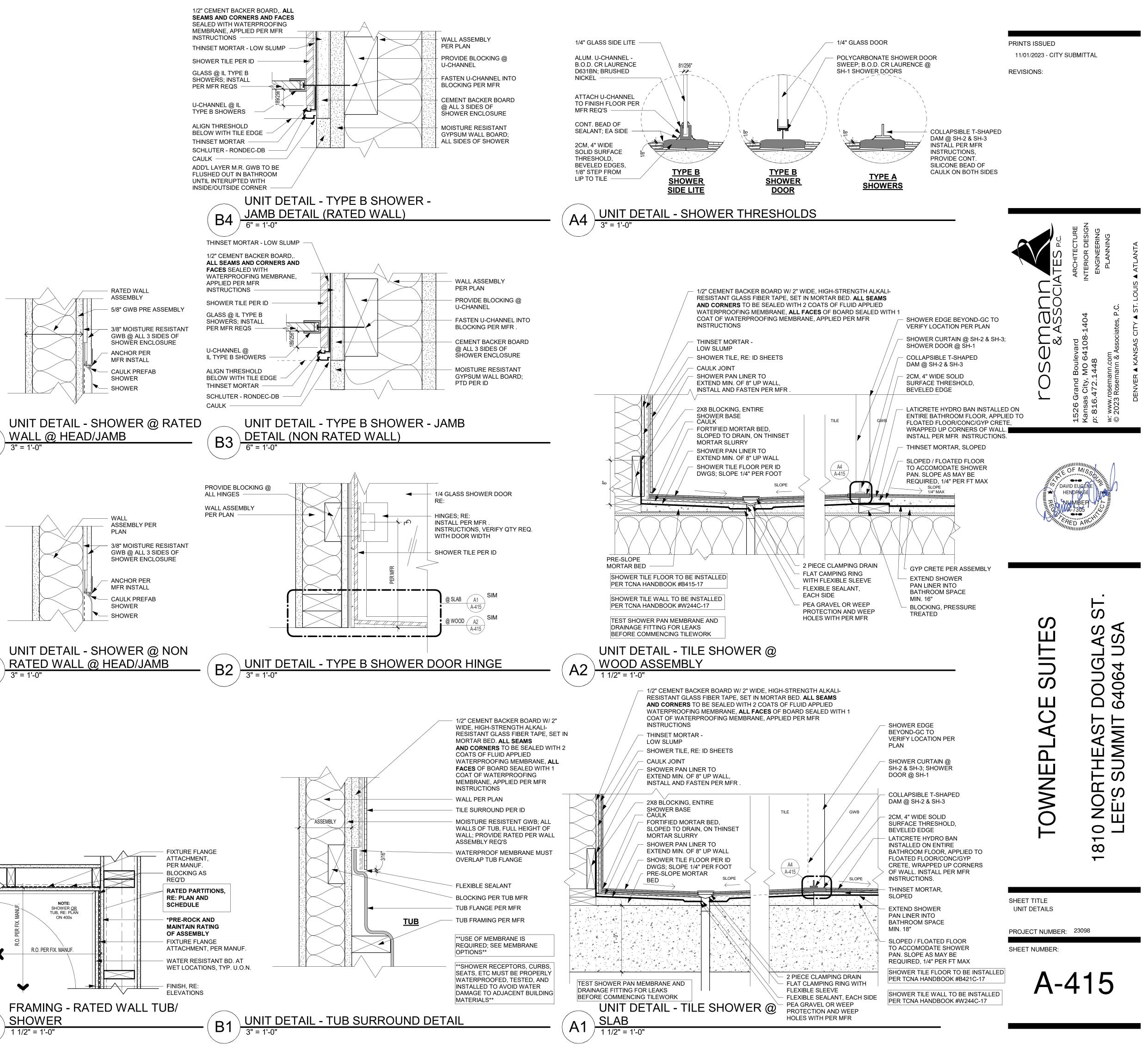


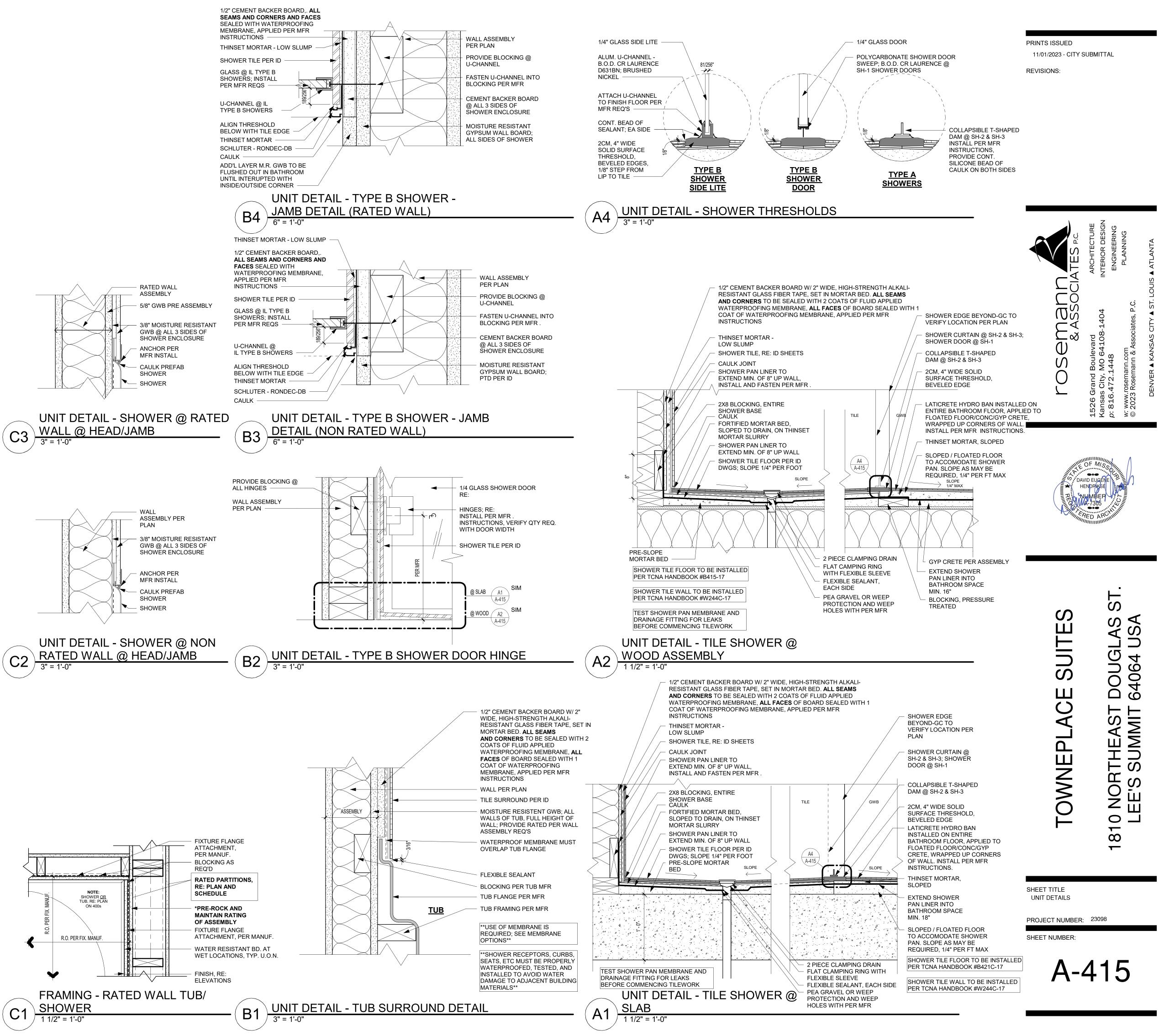


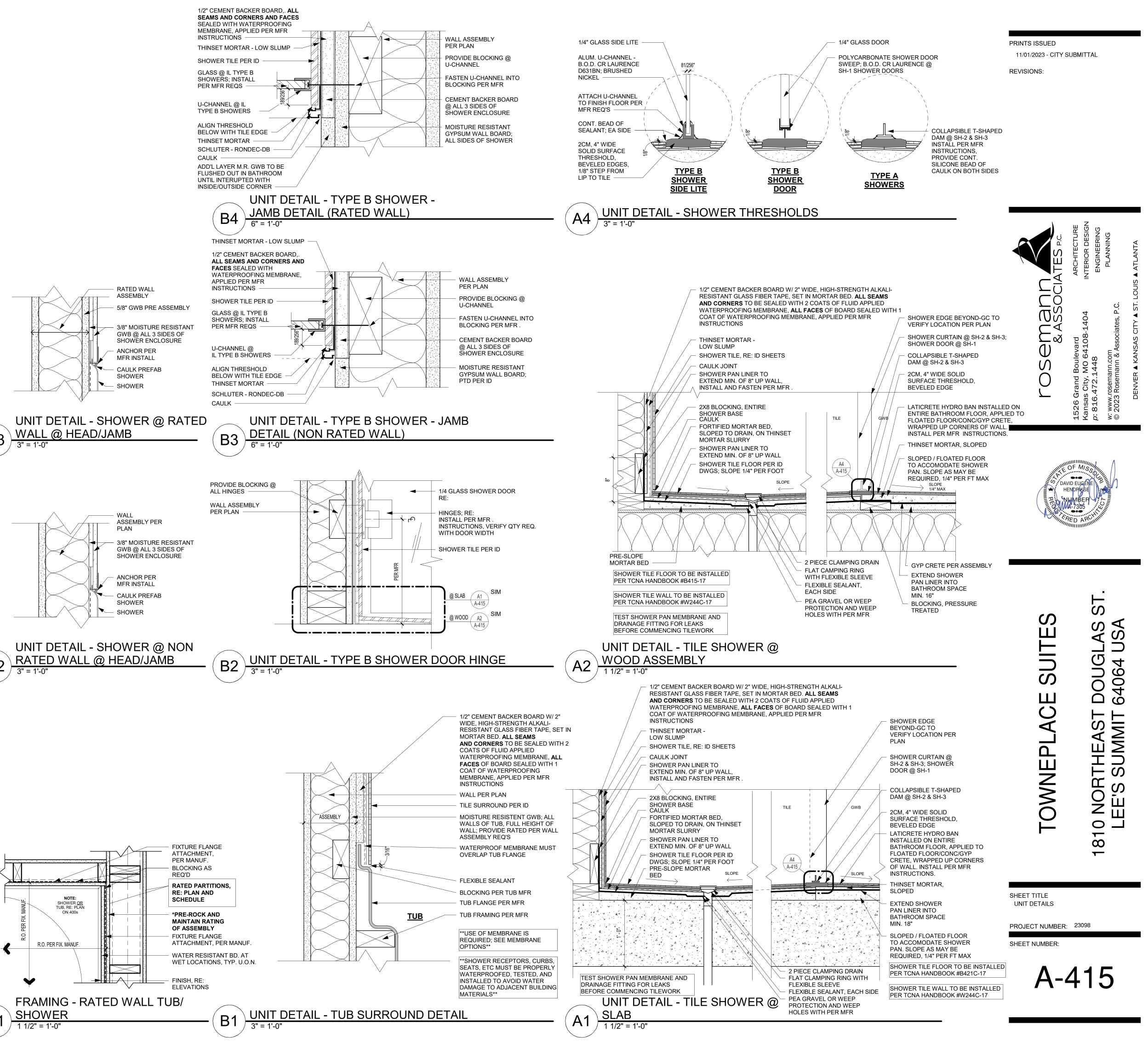
— GYP. BOARD WALL W/ WALL COVERING, SEE ELEVS

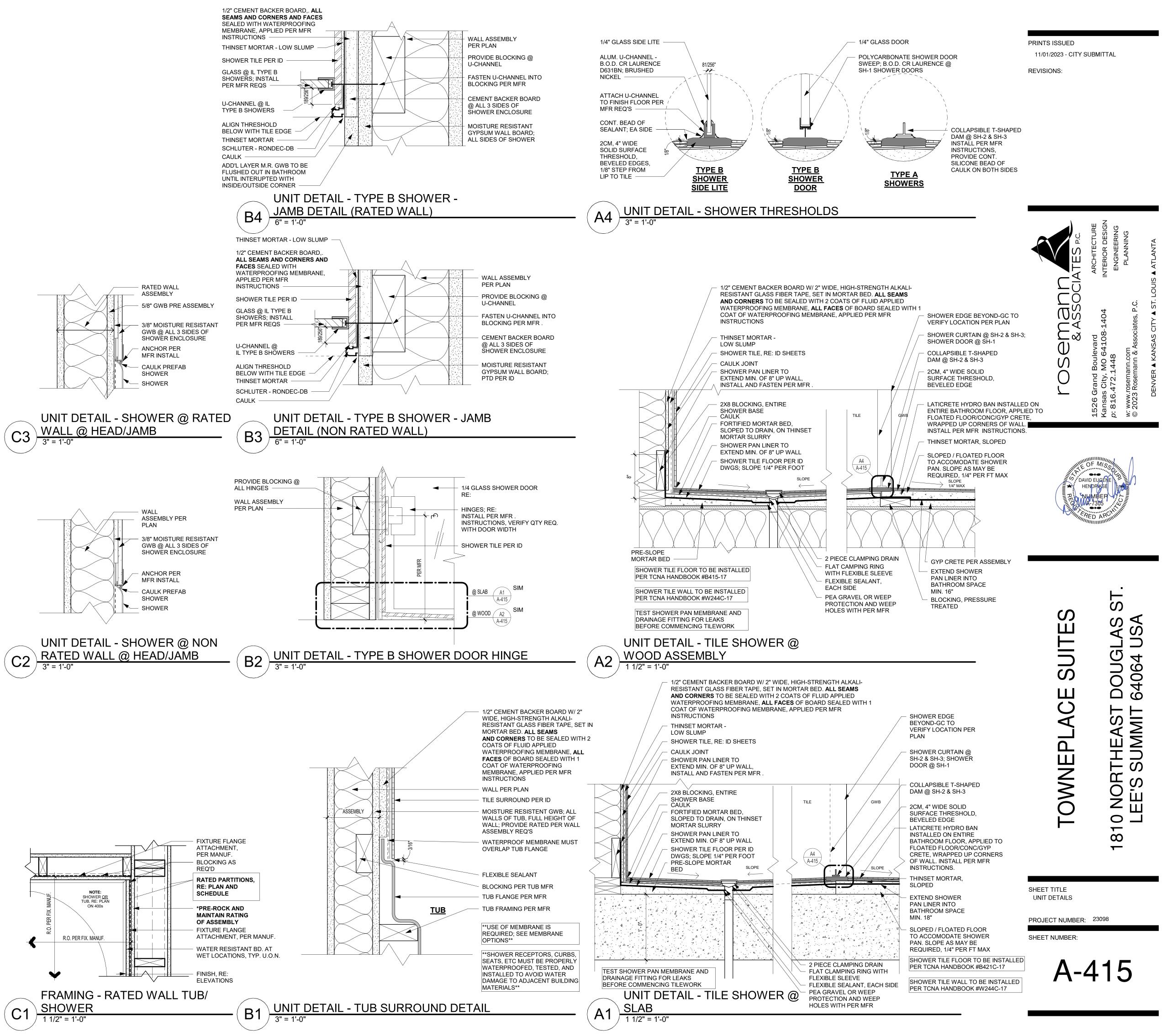


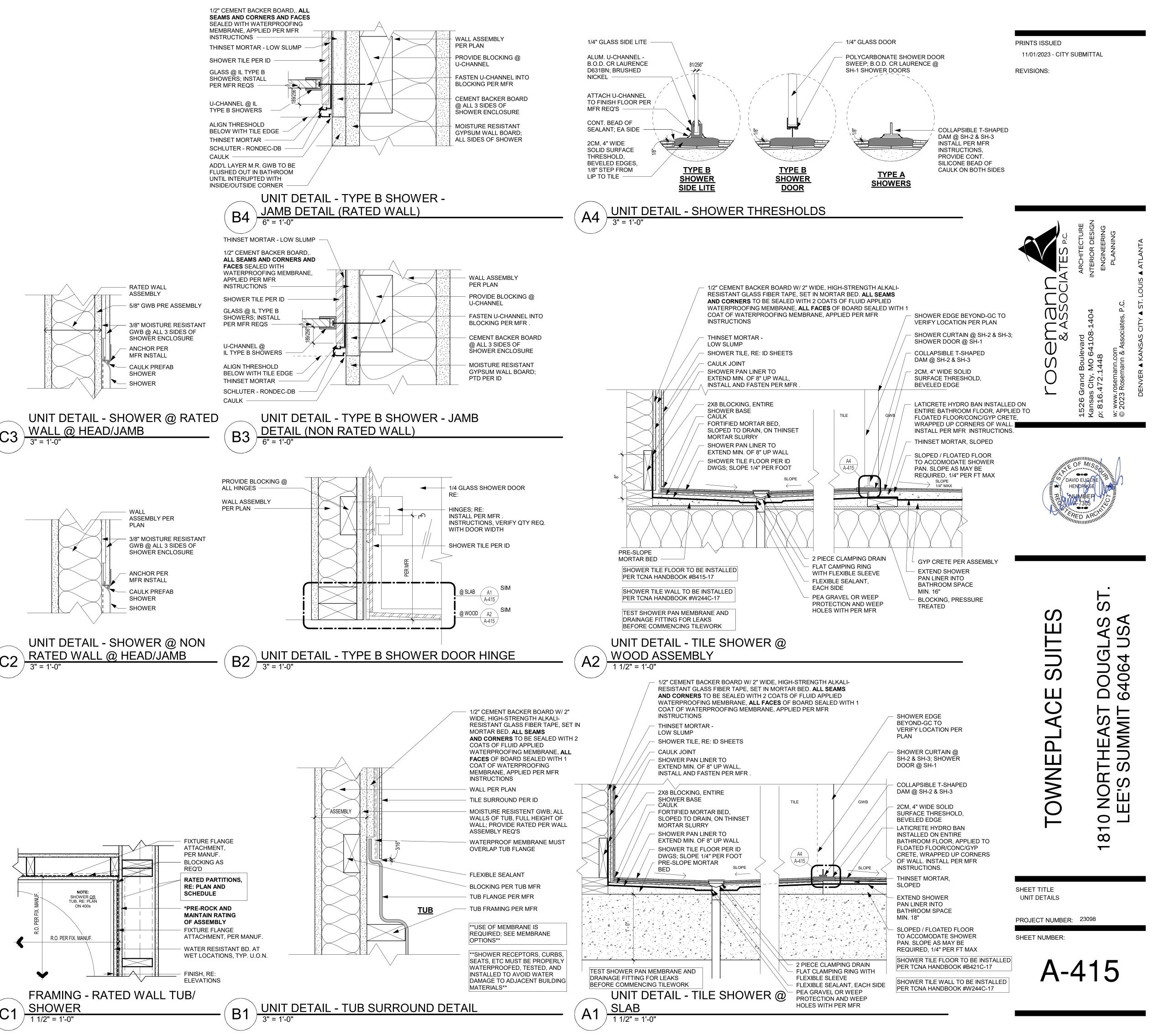


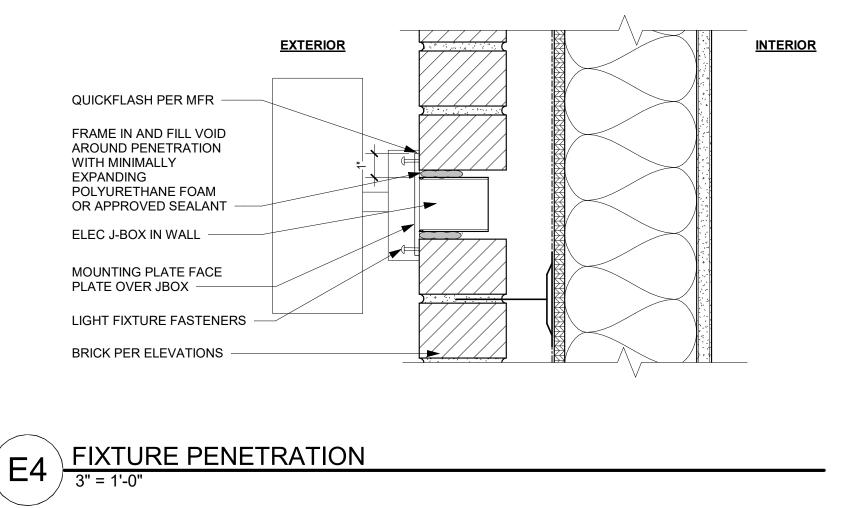


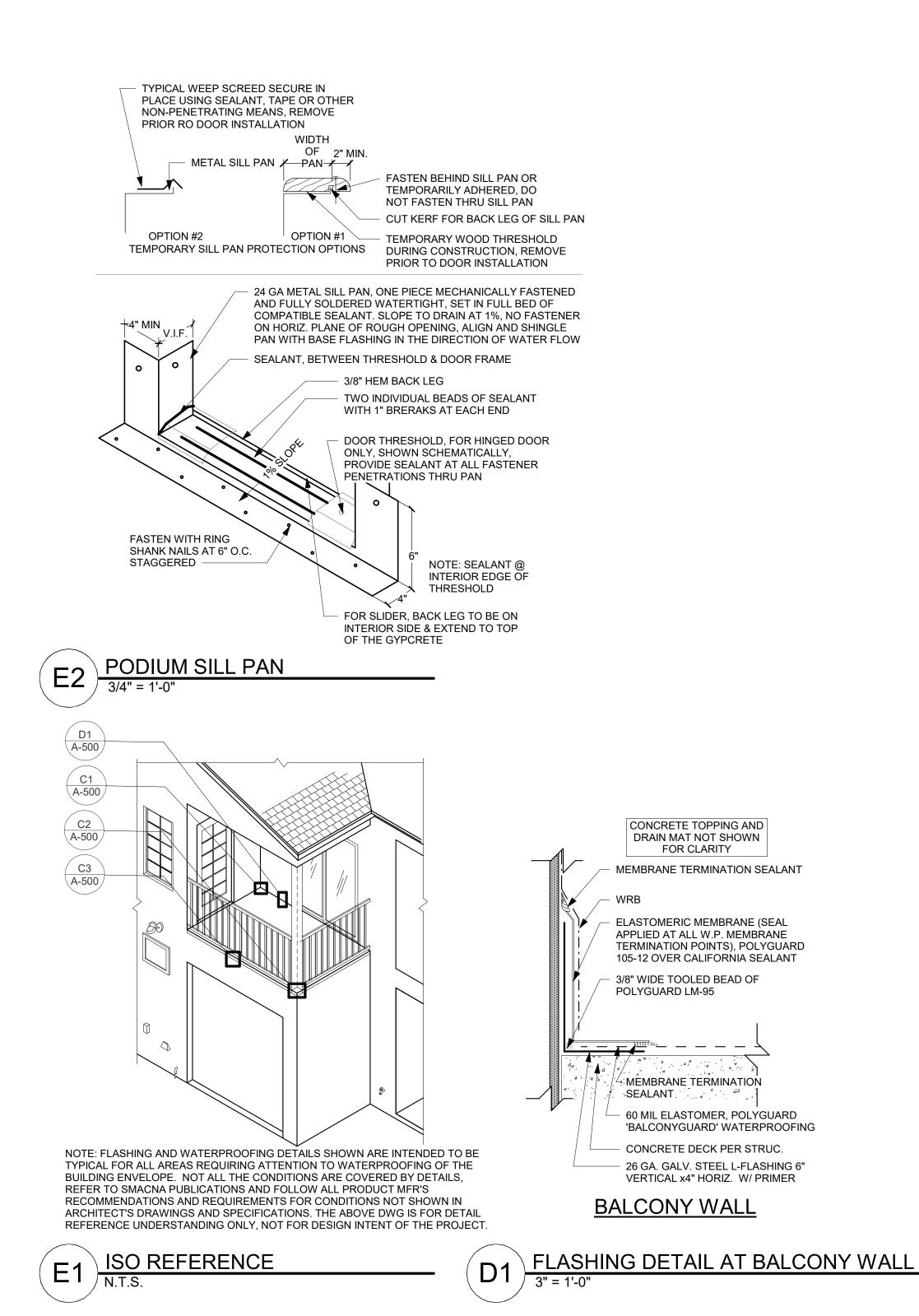


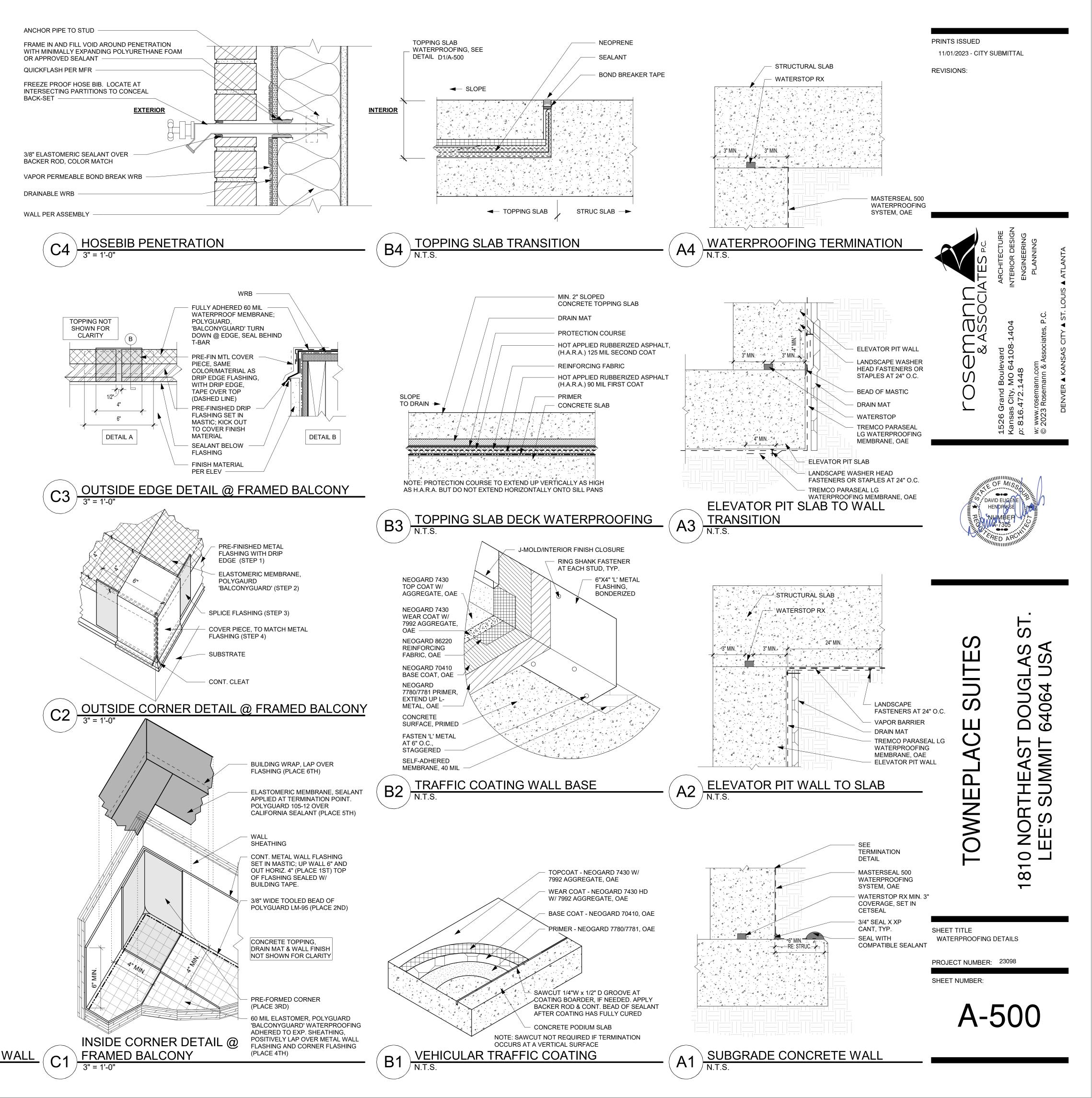


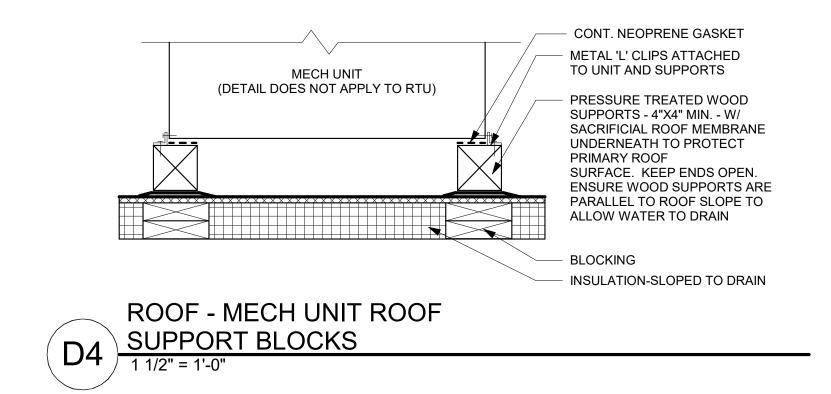












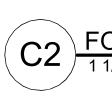
ANCHOR PER MFR MASONRY PER ELEVATION

WRB PER SPEC.

FLEXIBLE FLASHING TAPE LAP FROM SHEATHING ONTO MTL FLASHING

MORTAR NET WEEP HOLES, 24" O.C. PRE-FIN. MTL. FLASHING,

SOLID GROUT FILL, TYPE 'S'

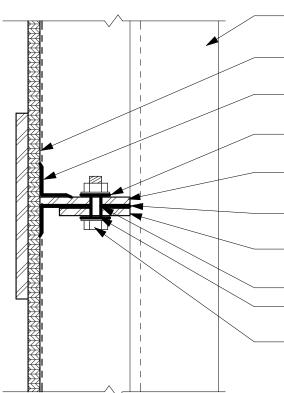


MASONRY PER ELEVATION SHEATHING PER ASSEMBLY WRB PER SPEC. FLEXIBLE FLASHING TAPE LAP FROM SHEATHING ONTO MTL FLASHING WEEP HOLES, 24" O.C. PRE-FIN. MTL. FLASHING,

1/2" ISOLATION JOINT

SOLID GROUT FILL, TYPE 'S'.

C1



WRB ON SHEATHING PER ASSEMBLY KNIFE PLATE PENETRATION SEALED WITH LIQUID FLASHING

BRICK SUPPORT

ANGLE, RE: STRUC.

ARMATHERM WASHER, OAE, **BETWEEN WASHER & KNIFE PLATE** BRICK SUPPORT KNIFE PLATE, RE: STRUC.

ARMATHERM FRR THERMAL BREAK, OAE BRICK SUPPORT KNIFE PLATE, RE: STRUC.

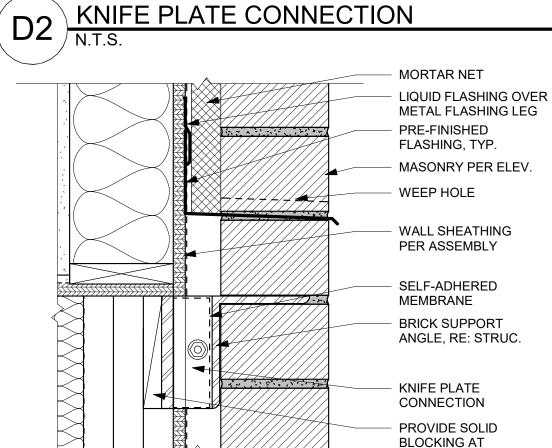
ARMATHERM BRUSHING, OAE ARMATHERM WASHER, OAE, **BETWEEN WASHER & KNIFE PLATE** SUPPORT FASTENER, RE: STRUC.

CONNECTION, TYP.



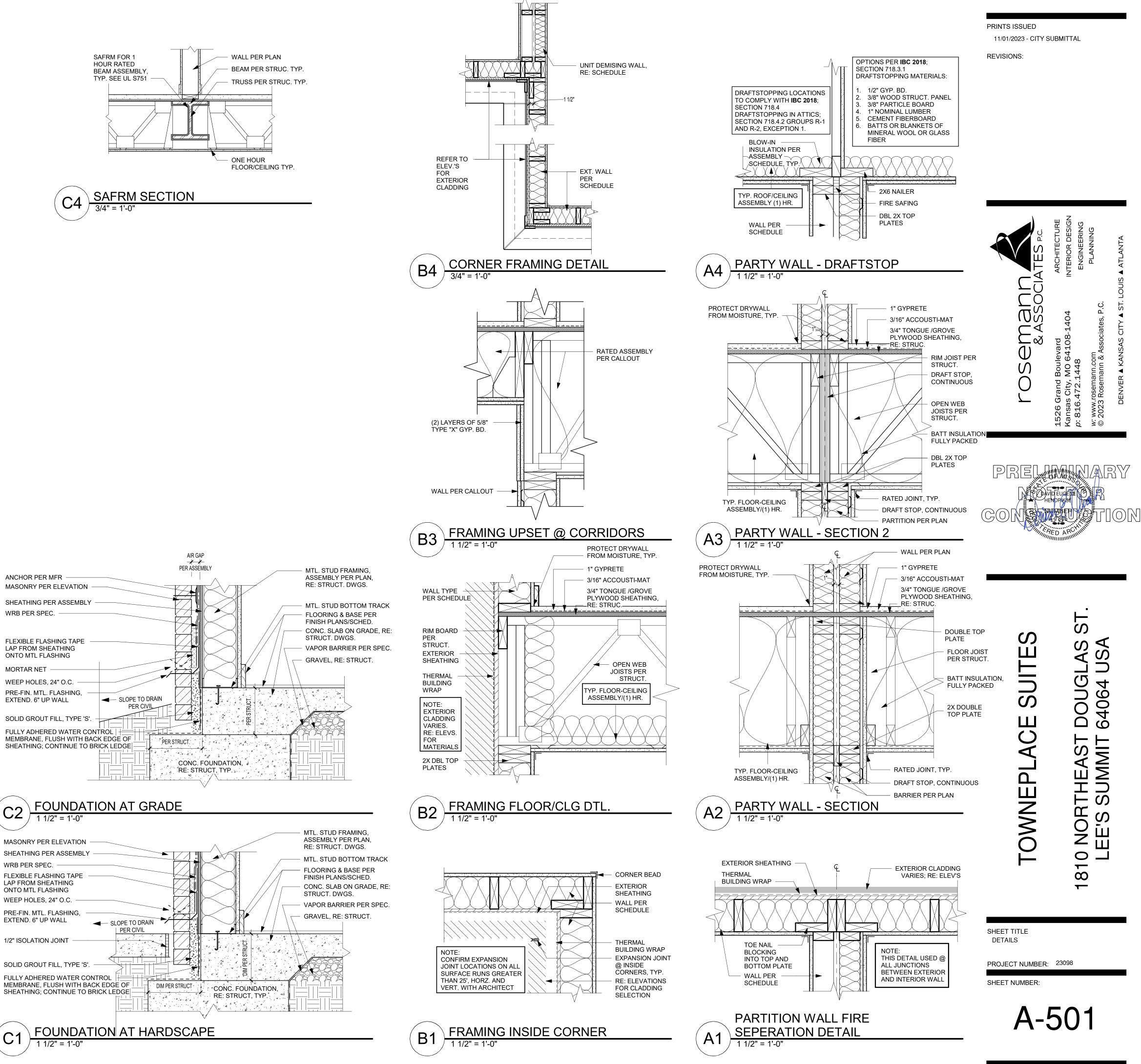
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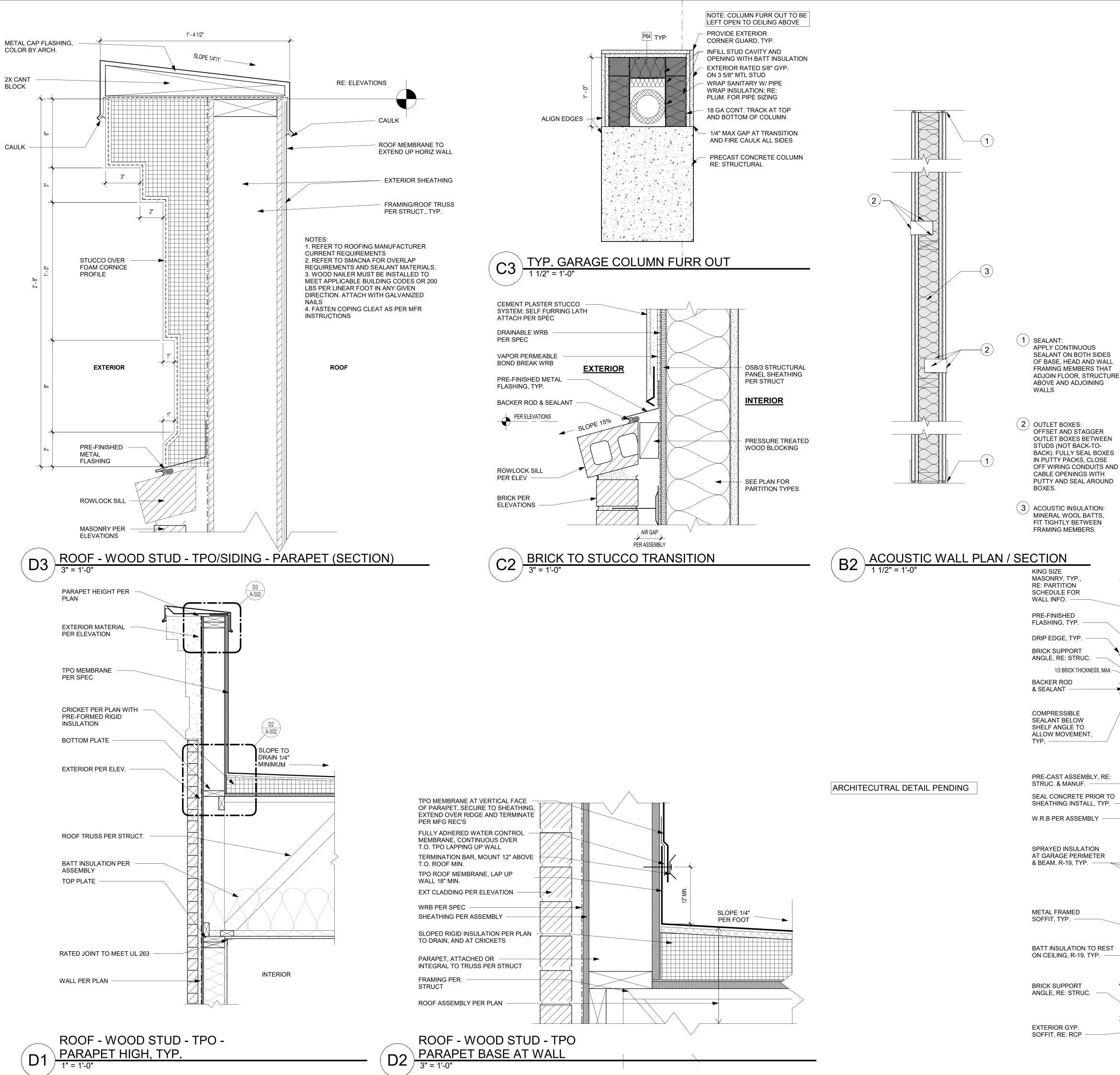
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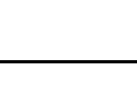


BRICK SUPPORT ANGLE









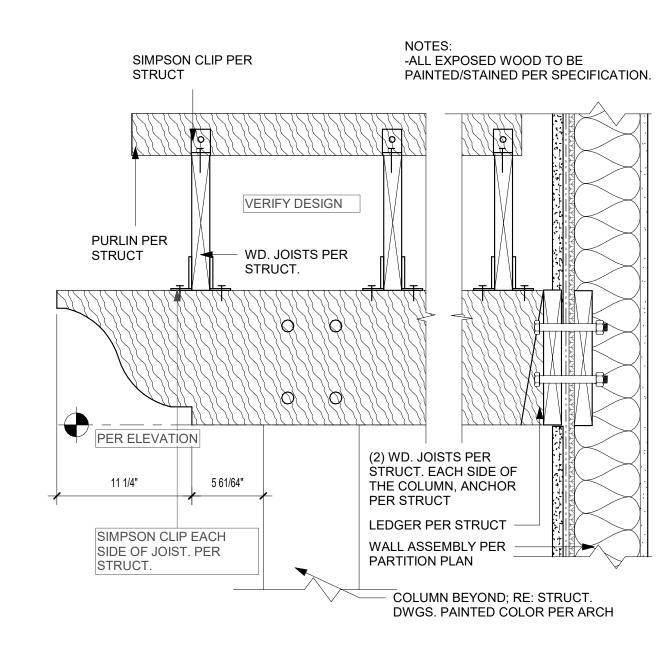
PRINTS ISSUED 11/01/2023 - CITY SUBMITTAL

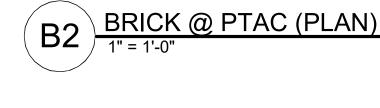
REVISIONS:

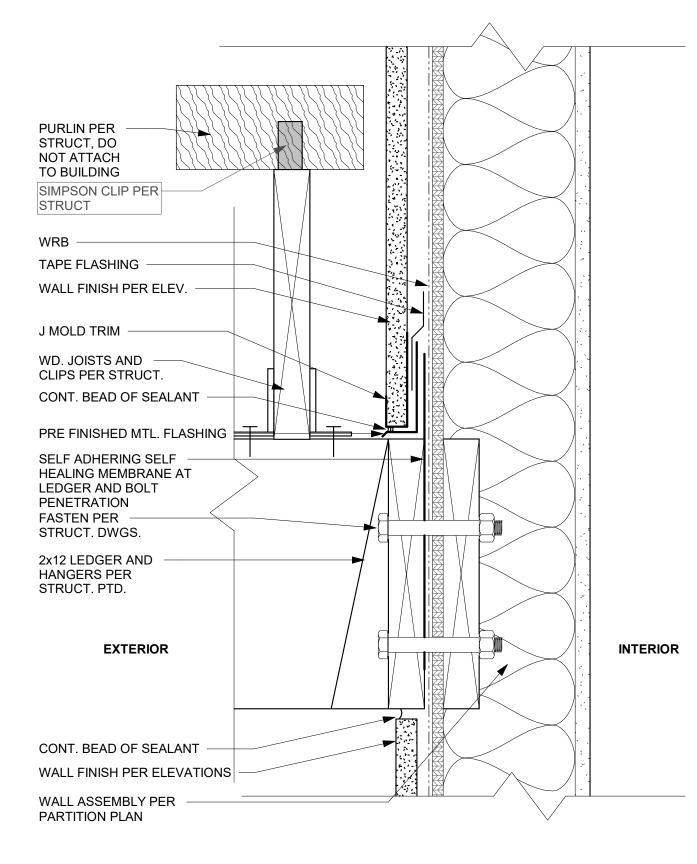
BRICK WALL SYSTEM, RE PARTITION ASSEMBLIES SEAL PENETRATIONS, TYP. IN-WALL BLOCKING $\dot{\Lambda}$ THRU BOLT NUT AND WASHER COMPRESSION SLEEVE PER MANUF. EYEBOLT \mathcal{N} $\left| \left< \alpha \right> \right>$ -0emar & ASSC CANOPY PLAN DETAIL A3 1 1/2" = 1'-0" \bigcirc IN-WALL BLOCKING MO THROUGH BOLT W/ COMPRESSION \bigcirc ≝ĕ∕≠ City, 472. SLEEVE PER MANUF. SEAL AT ALL PENETRATIONS, TYP. ≶ລ 00 BRICK WALL SYSTEM, RE: ≥© ਜੋ ਨੂੰ ਕੁੱ PARTITION ASSEMBLIES THROUGH BOLT W/ COMPRESSION SLEEVE PER MANUF. PREMANUFACTURED õ 🗜 METAL CANOPY, RE: SPEC. & EXTERIOR ELEVATIONS ••• **BLOCKING/DOOR HEADER** 🛃 DAVID EUGEN PRE-FINISHED FLASHING HENDRIK W/ DRIP EDGE, TYP. EXTERIOR STOREFRONT/DOOR WALL PROFILE AT STAIR DETAIL A2) VVALL Ś S LAS USA SUITE 4 1/3 BRICK THICKNESS, MAX.-DOUGI 64064 I Ш \bigcirc RTHEAST SUMMIT **OWNE** NOR: EE'S 810 **—** SHEET TITLE DETAILS PROJECT NUMBER: 23098 SHEET NUMBER: A-502 PARKING GARAGE BRICK LEDGE DETAIL A1 1 1/2" = 1'-0"











PERGULA CONNECTION

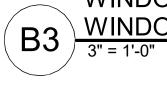
PERGULA SECTION

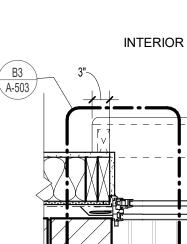
1 1/2" = 1'-0"

C1

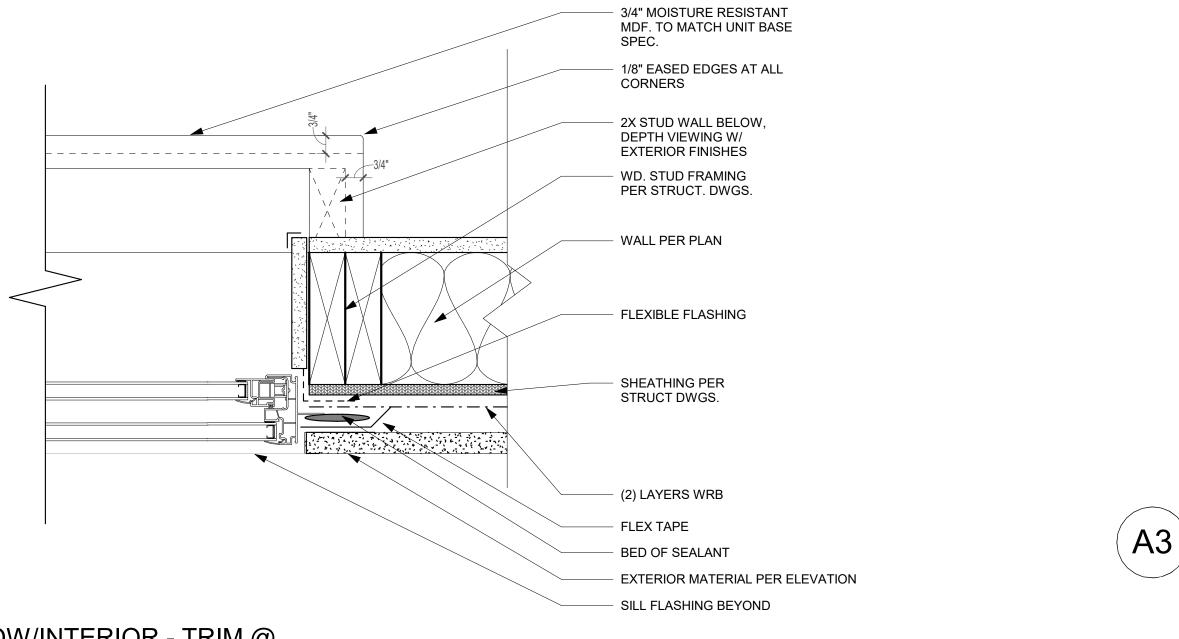
C2

3" = 1'-0





EXTERIOR



WINDOW/INTERIOR - TRIM @ WINDOW JAMB

_ _ _ _ _ _ _ _ _

IF NO LINEAL, MUST REPLACE WITH TRIM OR PREFIN. MTL FLASHING MUST LAP UNDER FLANGE OF WINDOW

WINDOW SIZE VARIES, RE:

3/4" MOISTURE RESISTANT MDF. TO MATCH UNIT BASE

2X STUD WALL BELOW, DEPTH

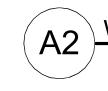
WD. STUD FRAMING PER STRUCT.

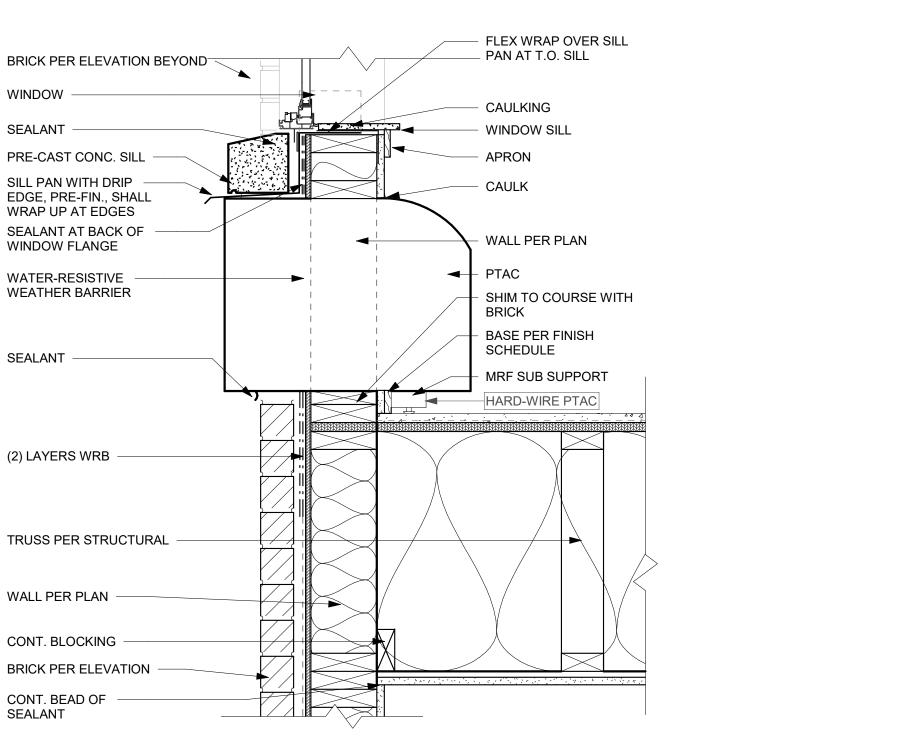
WALL PER PLAN

- SHEATHING PER STRUCT DWGS.

XX WRB

EXTERIOR FINISH PER ELEVATION





PER MFGR.

PTAC ALIGNMENT WITH WINDOW

VARIES

_ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _

_ _ _ _ _ _ _ _ _ _ _ _

BRICK @ PTAC (SECTION)



BRICK PER ELEVATION, PROVIDE

PRE-FIN 90° MTL FLASHING CONT W/ DRIP EDGE, COLOR TBD

PRE-FIN. ROOF STEP FLASHING

COMPLETELY COVERING NEXT

COURSE OF SHINGLES, TYP.

ROOF SHINGLES PER SPEC

FULLY ADHERED WATER

EXTEND 12" ALONG ROOF

CONTROL MEMBRANE,

ROOF UNDERLAYMENT

SHEATHING PER

ASSEMBLY

WEEPS @ 32" OC MAX

MESH DRAINAGE

COLOR TBD

ELEVATION SPEC

1/2" RADIUS ON WINDOW SILL BOTH SIDES VIEWING W/ EXTERIOR FINISH

DWGS.

FLEXIBLE FLASHING

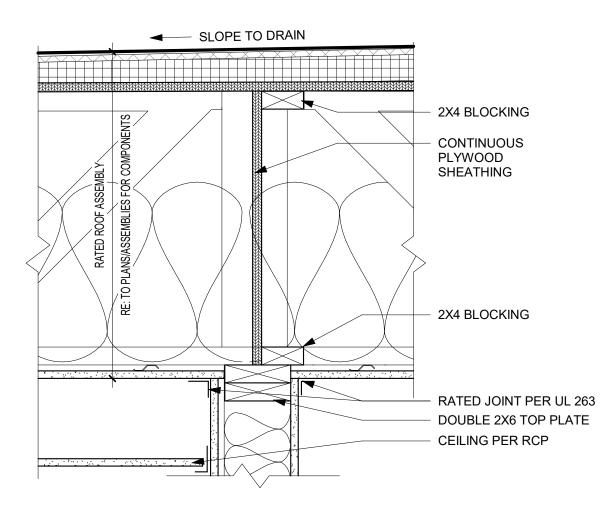
- FLEX TAPE

BED OF SEALANT

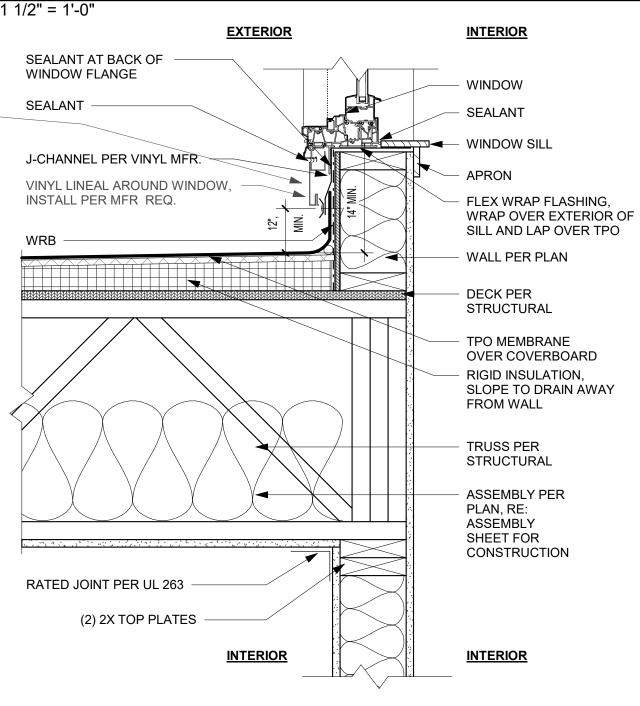
ROWLOCK SILL BELOW

VINYL WDW. W/ BRICK MOLD, BOTH SIDES

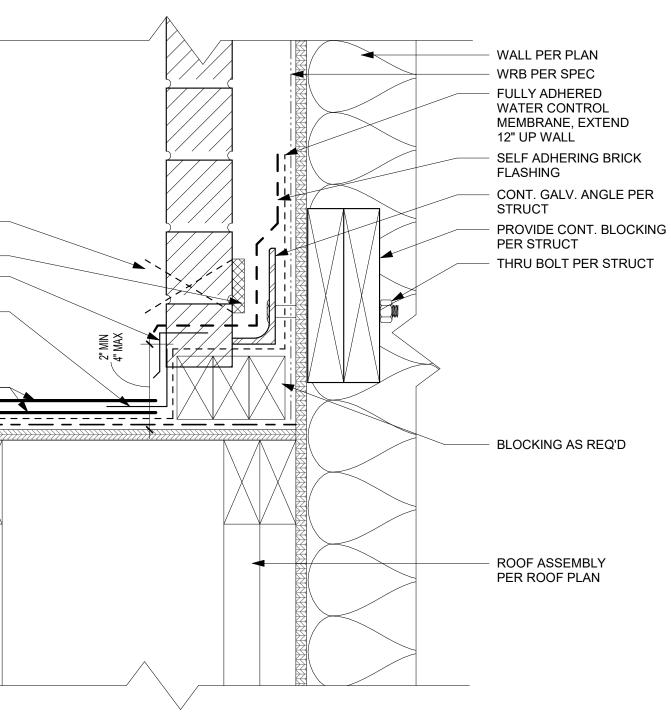
- PTAC GRILL PAINTED CUSTOM COLOR TO MATCH FRAME



ROOF DRAFT STOPPING (SECTION)

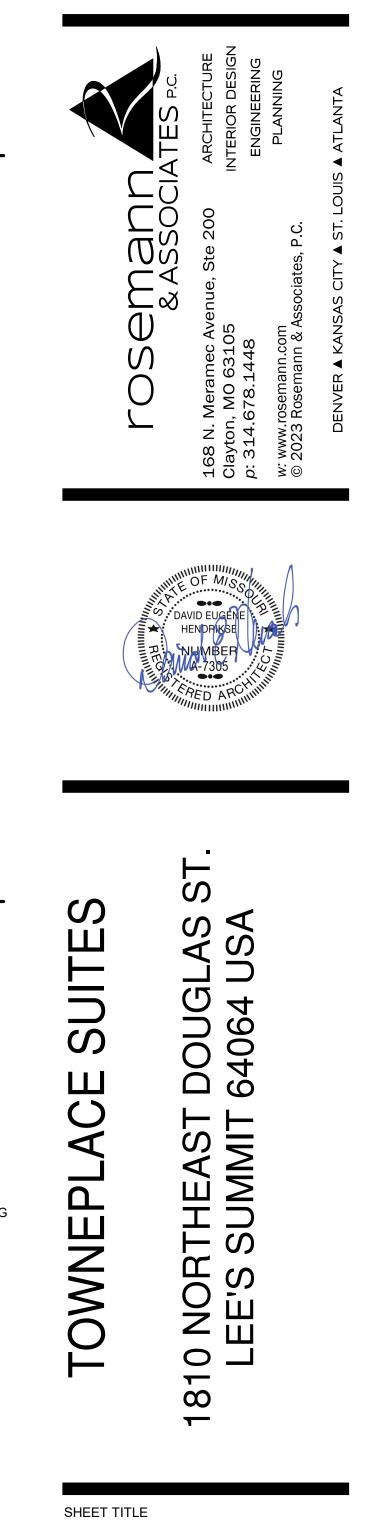


WINDOW SILL @ DECK 1 1/2" = 1'-0"



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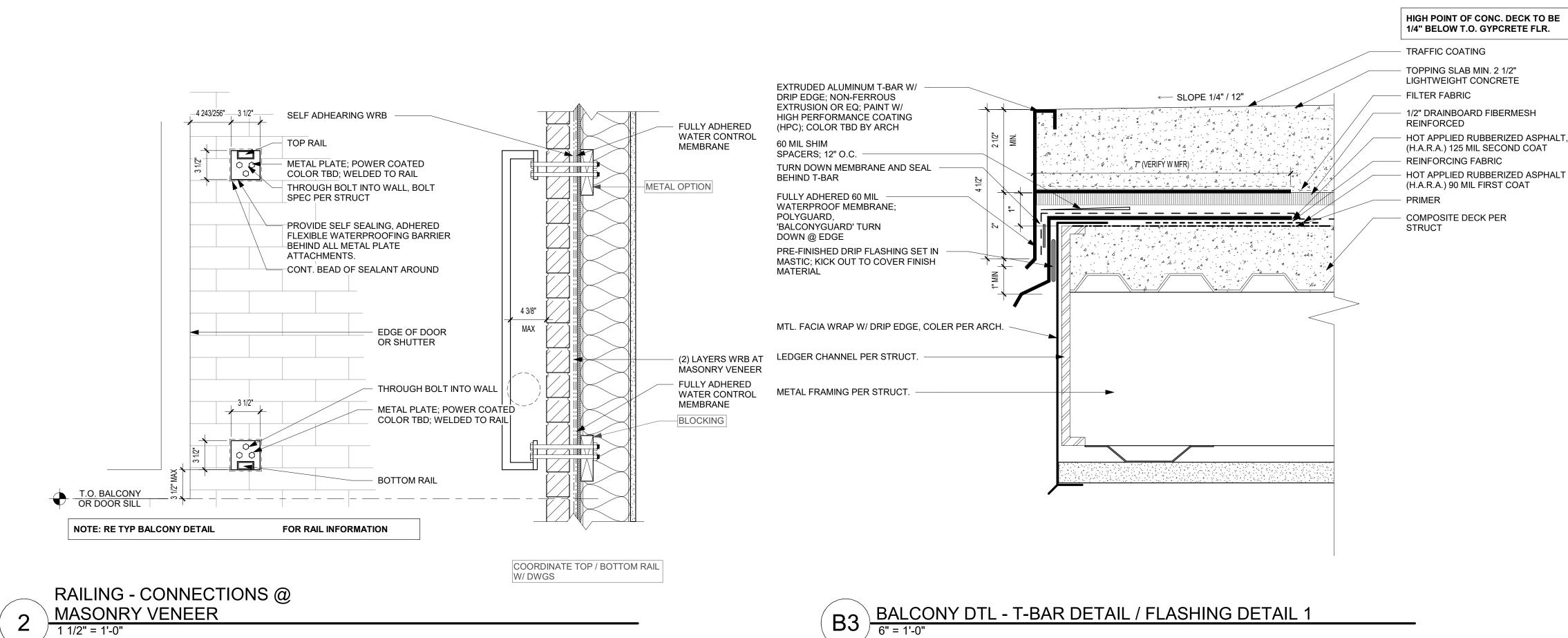
ROOF ASSEMBLY PER ROOF PLAN

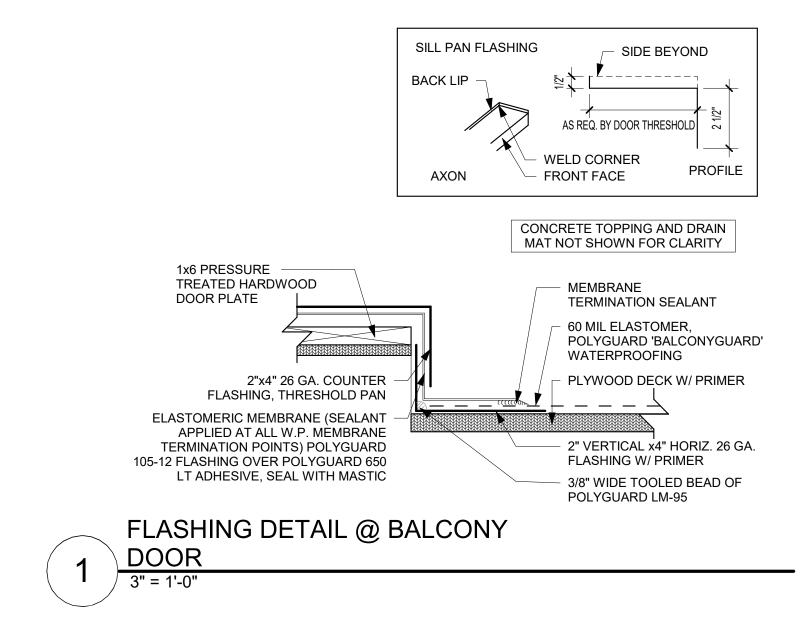
PROJECT NUMBER: 23098

SHEET NUMBER:

DETAILS









SHEET TITLE

BALCONY AND RAILING DETAILS

PROJECT NUMBER: 23098

SHEET NUMBER:

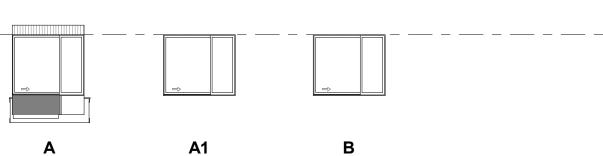


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ADDITIONAL ARCHITECTURAL BALCONY DETAILS PENDING





FIXED	W/ 3	SLID)ER	

SINGLE HUNG DOUBLE

	WINDOW SCHEDULE								
TYPE	DESCRIPTION	LOCATION	HEIGHT	WIDTH	FRAME MATERIAL	COMMENTS			
	FIXED W/ HORIZONTAL SLIDER	TYP. GUESTROOM	5' - 1"	6' - 0"	ALUMINUM	SET SLIDER TO NOT OPEN MORE THAN 4"			
	FIXED W/ HORIZONTAL SLIDER	EMPLOYEE BREAKROOM	5' - 1"	6' - 0"		SET SLIDER TO NOT OPEN MORE THAN 4"			
В	FIXED	CORRIDOR	5' - 1"	6' - 0"	ALUMINUM				
В	FIXED	STAIRS	5' - 1"	6' - 0"	ALUMINUM				

FIXED

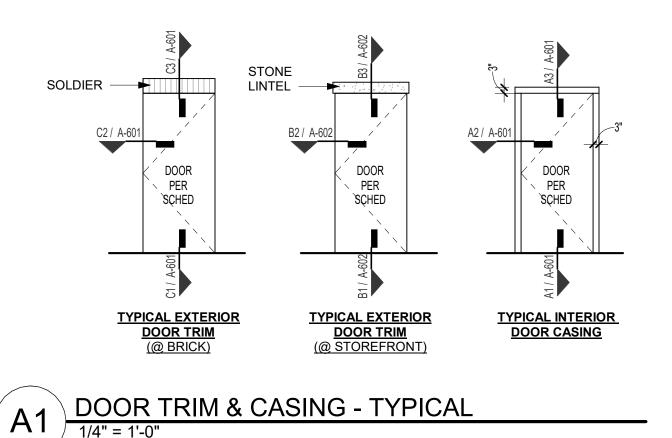
WINDOW COMMENTS:1.GLAZING DEEMED TO BE IN A HAZARDOUS LOCATION

EACH PANE OF SAFETY GLAZING INSTALLED IN 2 HAZARDOUS LOCATIONS SHALL BE IDENTIFIED BY MFR'S DESIGNATION.

ALIGN HEADS 8'-0" UNO

- 3. CONFIRM OPERATION OF SASH LOCKS AT "TYPE A" UNITS WILL BE WITHIN 48" REQUIRED REACH RANGE
- PER XX/XX 4. ALL WINDOWS IN PUBLIC SPACES SHALL RECEIVE TRIM PER XX/XX
- 5. SEE XX / XX FOR EXTERIOR WINDOW & DOOR TRIM 6. REFER TO CODE SHEET FOR ALL FIRE RATINGS
- WINDOW LIMITERS PER
- 9. OPERABLE PARTS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5.0 POUNDS (22.2 N) MAXIMUM
- 10. PROVIDE WINDOW OPENING CONTROL DEVICES (WOCDs) THAT COMPLY WITH ASTM F2090
- 11. WINDOW HEADERS TO ALIGN WITH ADJACENT DOOR HEADERS; UNO

							COORDINATION ONLY - SEE UNIT PLANS		
				DOOK SCI		NI DOURS -	COORDINATION ONLY - SEE UNIT PLANS		
Mark	Width	Height	Thickness	Fire Rating	Door Type	Frame	Comments		
				(Minutes)		Туре		Unit vs Public	*Typ
-	3' - 0"	6' - 8"	1 3/4"		A2			U	(none
000	3' - 0"	6' - 8"	1 3/4"	20	A2	HM		U	(none
000A	3' - 0"	6' - 8"	1 3/4"	45	A2			U	(none
004	3' - 0"	7' - 0"	1 3/4"		A3	НМ		U	(none
Lockou	3' - 0"	6' - 8"	1 3/4"		A2			U	(none
t									



PUBLIC ROOM FINISH COMMENTS: 1. PAINT BULKHEADS

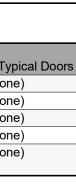
GENERAL NOTES: 1. BASE FINISH

A. RB-1 = VINYL TOED/TOELESS - STANDARD COLOR

DOOR SCHEDULE ABBREVIATIONS:

		1					
ALUM	ALUMINUM	FGL / FBG	FIBERGLASS	N/A	NOT APPLICABLE	STL	NOT APPLICABLE
ANO	ANODIZED	HC WOOD / HCWD	HOLLOW CORE WOOD	PER MFR	PER MANUFACTURER	WD CLAD	WOOD CLAD
BLK	BLACK	НМ	HOLLOW METAL	PRE-FIN	PRE-FINISHED		
BRZ	BRONZE	INSUL MTL	INSULATED METAL	PT / PTD	PAINTED		
CLR	CLEAR	MTL	METAL	SC WOOD / SCWD	SOLID CORE WOOD		

- SHALL BE TEMPERED / SAFETY GLAZING.
- 7. WINDOWS ON AND ABOVE SECOND FLOOR MUST HAVE
- 8. WINDOW LOCATIONS PER PLANS



4.	DOOR HARDWARE SHALL NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING, OR TWISTING OF THE WRIS1xx(/ xx'erate.
5.	ALL DOOR HARDWARE TO BE LEVER TYPE HARDWARE, UNO.
6.	DOOR HARDWARE TO BE CENTERED ON RAIL OF PANEL DOORS.

DOOR COMMENTS:

7. DOOR FRAMES TO BE FINISHED PER SCHEDULE.

1. BOTTOM RAIL TO BE MINIMUM 10" TO ALLOW FOR A 10"

SCHEDULE; FINAL HARDWARE SCHEDULE AND FINAL

CONTRACTOR. VERIFY FINAL HARDWARE INSTALLATION

KICK PLATE; TYPICALL ALL DOORS.

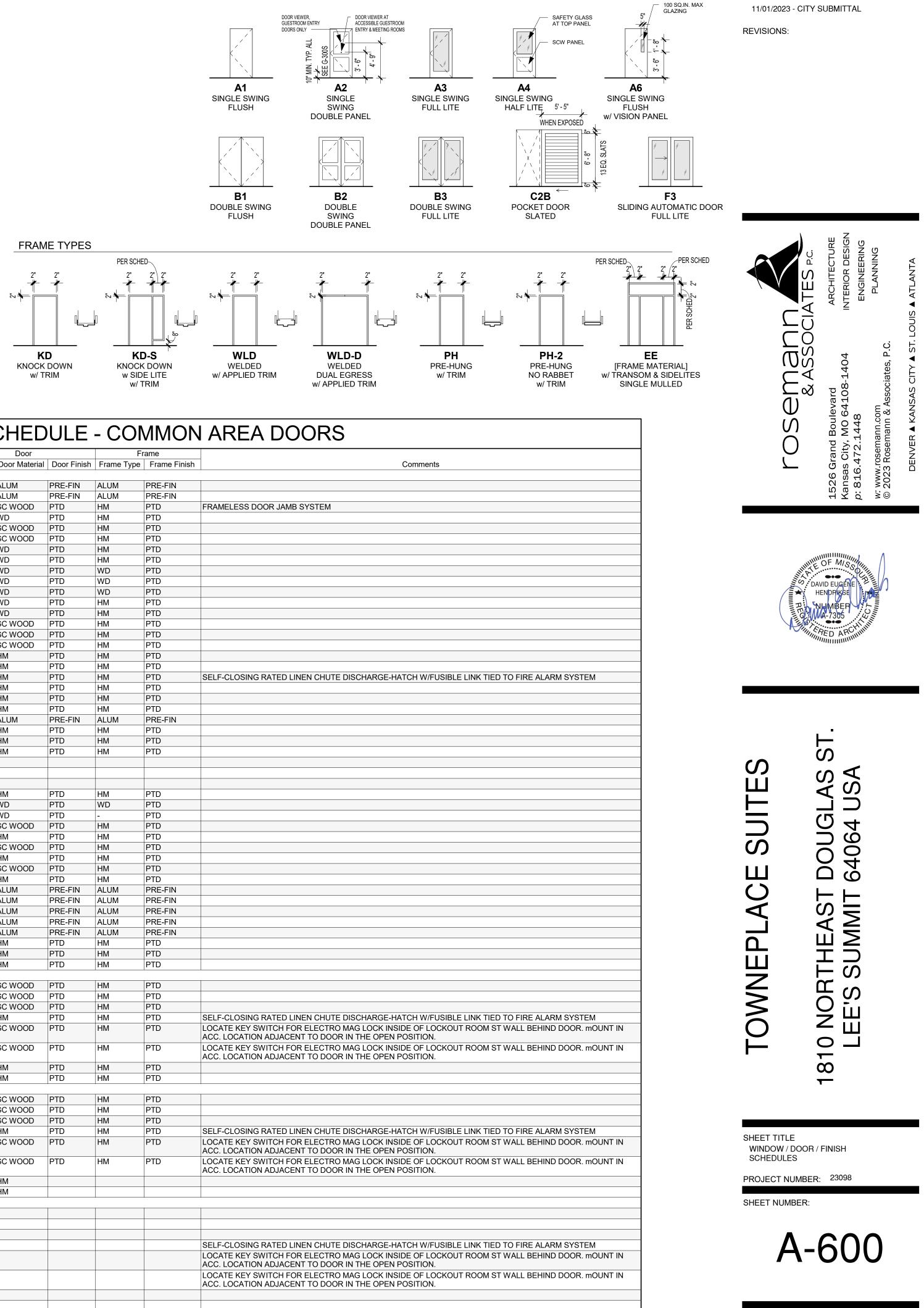
3. SEE SPECIFICATIONS FOR DOOR HARDWARE

GROUPS TO BE DETERMINED BY DOOR SUB-

2. ALL DOORS TO BE 1-3/4" THICK, UNO.

WITH CLIENT AND ARCHITECT.

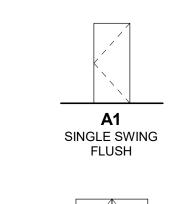
- 8. EXTERIOR PAINT COLOR TO MATCH ADJACENT EXTERIOR MATERIALS.
- 9. TOPS AND BOTTOMS OF ALL HOLLOW METAL DOORS EXPOSED TO WEATHER TO BE PATINED.
- 10. ALLOW FOR PLASTIC LAMINATE FACES AT DOOR FRAMES. ADJUST HINGES AS NEEDED.
- 11. VERIFY KEYING SCHEDULE WITH OWNER. ALL KEYS TO BE GIVEN TO OWNER AT SUBSTANTIAL COMPLETION. 12. NO HINGE-MOUNTED DOOR STOPS.
- 13. ALL COMMON AREA RATED DOORS TO HAVE SMOKE SEALS (GASKETS), CLOSURES, AND LATCH HARDWARE.
- 14. PROVIDE SPACER AT UNIT ENTRY DOOR GUARDS TO CLEAR DOOR TRIM.
- 15. UNIT ENTRY DOORS TO HAVE SPRING HINGES & LATCH HARDWARE, TYP UNO.
- 16. ALL DOORS INTENDED FOR PASSAGE TO HAVE 32" MIN. CLEAR WIDTH PER ICC ANSI A117.1

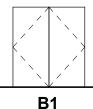


DOOR SCHEDULE - COMMON AREA DOORS

Mark	Location LOOR SLAB	Width	Height	Thickness	Fire Rating (Minutes)	Panic Hardware	Door Type	Door Door Material	Door Finish		rame Frame Finish	-
1000A	VESTIBULE	8' - 0"	7' - 0"	1 3/4"		No	F3	ALUM	PRE-FIN	ALUM	PRE-FIN	
1000B	LOBBY	8' - 0"	7' - 0"	1 3/4"		No	F3	ALUM	PRE-FIN	ALUM	PRE-FIN	
1002A	GENERAL MANAGER	3' - 0"	6' - 8"	1 3/4"	20	No	A2	SC WOOD	PTD	HM	PTD	FRAMELESS DOOR JAMB
1002B	GENERAL MANAGER	3' - 0"	6' - 8"	1 3/4"		No	A2	WD	PTD	HM	PTD	
1003	WORK ROOM	3' - 0"	6' - 8"	1 3/4"	20	No	A2	SC WOOD	PTD	HM	PTD	
1003.1	WORK ROOM	3' - 0"	6' - 8"	1 3/4"	20	No	A2	SC WOOD	PTD	HM	PTD	
1003A	WORK ROOM	6' - 0"	6' - 8"	1 3/4"		No	B2	WD	PTD	HM	PTD	
1003B	SALES OFFICE	3' - 0"	6' - 8"	1 3/4"		No	A2	WD	PTD	HM	PTD	
1003C	WORK ROOM	3' - 6"	6' - 8"	1 3/4"		No	B2	WD	PTD	WD	PTD	
1003D	WORK ROOM	3' - 6"	6' - 8"	1 3/4"		No	B2	WD	PTD	WD	PTD	
1003D.1	WORK ROOM	3' - 6" 3' - 0"	6' - 8" 6' - 8"	1 3/4" 1 3/4"		No	B2 A2	WD WD	PTD	WD HM	PTD PTD	
1003E 1004	WORK ROOM	3' - 0"	6' - 8"	1 3/4"	20	No No	AZ A2	WD	PTD PTD	HM	PTD	
1004	GUEST LAUNDRY	3 - 0	6' - 8"	1 3/4	20	No	AZ A4	SC WOOD	PTD	HM	PTD	
1003	EMPLOYEE BREAK	3' - 0"	6' - 8"	1 3/4"	20	No	A4 A2	SC WOOD	PTD	HM	PTD	
1007	HOUSE LAUNDRY	4' - 0"	6' - 8"	1 3/4"	20	No	A2	SC WOOD	PTD	HM	PTD	
1008A	HOUSE LAUNDRY	6' - 0"	6' - 8"	1 3/4"	20	No	B1	HM	PTD	HM	PTD	
1008B	HOUSE LAUNDRY	3' - 0"	6' - 8"	1 3/4"		No	A1	HM	PTD	HM	PTD	
1008C	HOUSE LAUNDRY	2' - 0"	2' - 0"	1 3/4"	90	No	A1	HM	PTD	HM	PTD	SELF-CLOSING RATED LIN
1008D	HOUSE LAUNDRY	2' - 4"	6' - 8"	1 3/4"		No	A1	НМ	PTD	HM	PTD	
1009	MENS	3' - 0"	6' - 8"	1 3/4"	20	No	A2	НМ	PTD	HM	PTD	
1010	WOMENS	3' - 0"	6' - 8"	1 3/4"	20	No	A2	НМ	PTD	HM	PTD	
1011A		3' - 6"	6' - 9 1/2"	1 3/4"		No	A3	ALUM	PRE-FIN	ALUM	PRE-FIN	
1012A	POOL RESTROOM	3' - 0"	7' - 0"	1 3/4"		No	A1	НМ	PTD	HM	PTD	
1012B	POOL STO.	3' - 0"	7' - 0"	1 3/4"		No	A1	HM	PTD	HM	PTD	
1012C	POOL EQUIPMENT	3' - 0"	7' - 0"	1 3/4"		No	A1	НМ	PTD	HM	PTD	
1012D		3' - 0"	5' - 0"				138					
1012E		3' - 0"	5' - 0"				138					
1012F		3' - 0"	5' - 0"				138					
1014	ELEVATOR LOBBY	3' - 0"	7' - 0"	1 3/4"	20	No	A3	HM	PTD	HM	PTD	
1014A	FITNESS CENTER	3' - 0"	6' - 8"	1 3/4"		No	A1	WD	PTD	WD	PTD	
1015 1016A	BUFFET FOOD PREP	5' - 8" 3' - 0"	7' - 9" 6' - 8"	1 3/4" 1 3/4"	20	No No	C2B A2	WD SC WOOD	PTD PTD	- HM	PTD PTD	
1016A 1016B	FOODPREP	3 - 0"	0 - 8 7' - 0"	1 3/4	20	No	AZ A1	HM	PTD	HM	PTD	
1017A	MECH.	3'-0"	6' - 8"	1 3/4"	20	No	A1 A2	SC WOOD	PTD	HM	PTD	
1017A		3' - 0"	7' - 0"	1 3/4"	20	No	A2	HM	PTD	HM	PTD	
1017B	CORRIDOR	3' - 0"	6' - 8"	1 3/4"	20	Yes	A2	SC WOOD	PTD	HM	PTD	-
1018B		3' - 0"	7' - 0"	1 3/4"	20	Yes	A1	HM	PTD	HM	PTD	
1019	FLEX	5' - 10 1/2"	6' - 6 1/4"	1 3/4"		No	B3	ALUM	PRE-FIN	ALUM	PRE-FIN	-
1020	COMMUNITY	3' - 0"	6' - 6 1/4"	1 3/4"		Yes	A3	ALUM	PRE-FIN	ALUM	PRE-FIN	
C1-1A	CORRIDOR	3' - 2 1/4"	6' - 9 1/2"	1 3/4"		Yes	A3	ALUM	PRE-FIN	ALUM	PRE-FIN	
C1-1B		3' - 0"	6' - 9 1/2"	1 3/4"		Yes	A3	ALUM	PRE-FIN	ALUM	PRE-FIN	
DDDD	ELEVATOR LOBBY	3' - 6"	8' - 3 1/2"	1 3/4"		No	A3	ALUM	PRE-FIN	ALUM	PRE-FIN	
S1-1A	STAIR 1	3' - 0"	6' - 8"	1 3/4"	90	No	A6	HM	PTD	HM	PTD	
S1-1B		3' - 0"	6' - 8"	1 3/4"		Yes	A2	НМ	PTD	HM	PTD	
S2-1		3' - 0"	7' - 0"	1 3/4"		Yes	A3	HM	PTD	HM	PTD	
	SYPCRETE											
2000	IT SERV.	3' - 0"	6' - 8"	1 3/4"	20	No	A2	SC WOOD	PTD	HM	PTD	
2001	STOR.	3' - 0"	6' - 8"	1 3/4"	20	No	A2	SC WOOD	PTD	HM	PTD	
2002A	LINEN STOR.	3' - 0"	6' - 8"	1 3/4"	20	No	A2	SC WOOD	PTD	HM	PTD	
2002B	LINEN STOR.	2' - 0"	2' - 0"	1 3/4"	90	No	A1	HM	PTD	HM	PTD	SELF-CLOSING RATED LIN
2003	LOCKOUT	3' - 0"	6' - 8"	1 3/4"	20	No	A2	SC WOOD	PTD	HM	PTD	LOCATE KEY SWITCH FOR ACC. LOCATION ADJACEN
2004	LOCKOUT	3' - 0"	6' - 8"	1 3/4"	20	No	A2	SC WOOD	PTD	НМ	PTD	LOCATE KEY SWITCH FOR ACC. LOCATION ADJACEN
S1-2	STAIR-1	3' - 0"	6' - 8"	1 3/4"	90	Yes	A6	НМ	PTD	НМ	PTD	
S2-2	STAIR-2	3' - 0"	6' - 8"	1 3/4"	90	Yes	A6	HM	PTD	HM	PTD	
T.O. 3rd G									1		1	
3000	IT SERV.	3' - 0"	6' - 8"	1 3/4"	20	No	A2	SC WOOD	PTD	HM	PTD	
3001	STOR.	3' - 0"	6' - 8"	1 3/4"	20	No	A2	SC WOOD	PTD	HM	PTD	
3002A	MAINT.	3' - 0"	6' - 8"	1 3/4"	20	No	A2	SC WOOD	PTD	HM	PTD	
3002B	MAINT.	2' - 0"	2' - 0"	1 3/4"	90	No	A1	HM	PTD	HM	PTD	SELF-CLOSING RATED LIN
3003	LOCKOUT	3' - 0"	6' - 8"	1 3/4"	20	No	A2	SC WOOD	PTD	НМ	PTD	LOCATE KEY SWITCH FOR ACC. LOCATION ADJACEN
3004	LOCKOUT	3' - 0"	6' - 8"	1 3/4"	20	No	A2	SC WOOD	PTD	НМ	PTD	LOCATE KEY SWITCH FOR ACC. LOCATION ADJACEN
S1-3	STAIR-1	3' - 0"	6' - 8"	1 3/4"	90	Yes	A6	НМ				
S2-3	STAIR-2	3' - 0"	6' - 8"	1 3/4"	90	Yes	A6	HM				
T.O. 4th G												-
4000	IT SERV.	3' - 0"	6' - 8"	1 3/4"	20	No	A2					
4001	STOR.	3' - 0"	6' - 8"	1 3/4"	20	No	A2					
4002A	STOR.	3' - 0"	6' - 8"	1 3/4"	20	No	A2					
4002B	STOR.	2' - 0"	2' - 0"	1 3/4"	90	No	A1					SELF-CLOSING RATED LIN
4003	LOCKOUT	3' - 0"	6' - 8"	1 3/4"	20	No	A2					LOCATE KEY SWITCH FOR ACC. LOCATION ADJACEN
							• -					
4004	LOCKOUT	3' - 0"	6' - 8"	1 3/4"	20	No	A2					LOCATE KEY SWITCH FOR ACC. LOCATION ADJACEN
	LOCKOUT STAIR-1 STAIR-2	3' - 0" 3' - 0" 3' - 0"	6' - 8" 6' - 8" 6' - 8"	1 3/4" 1 3/4" 1 3/4"	20 90 90	No No No	A2 A6 A6					

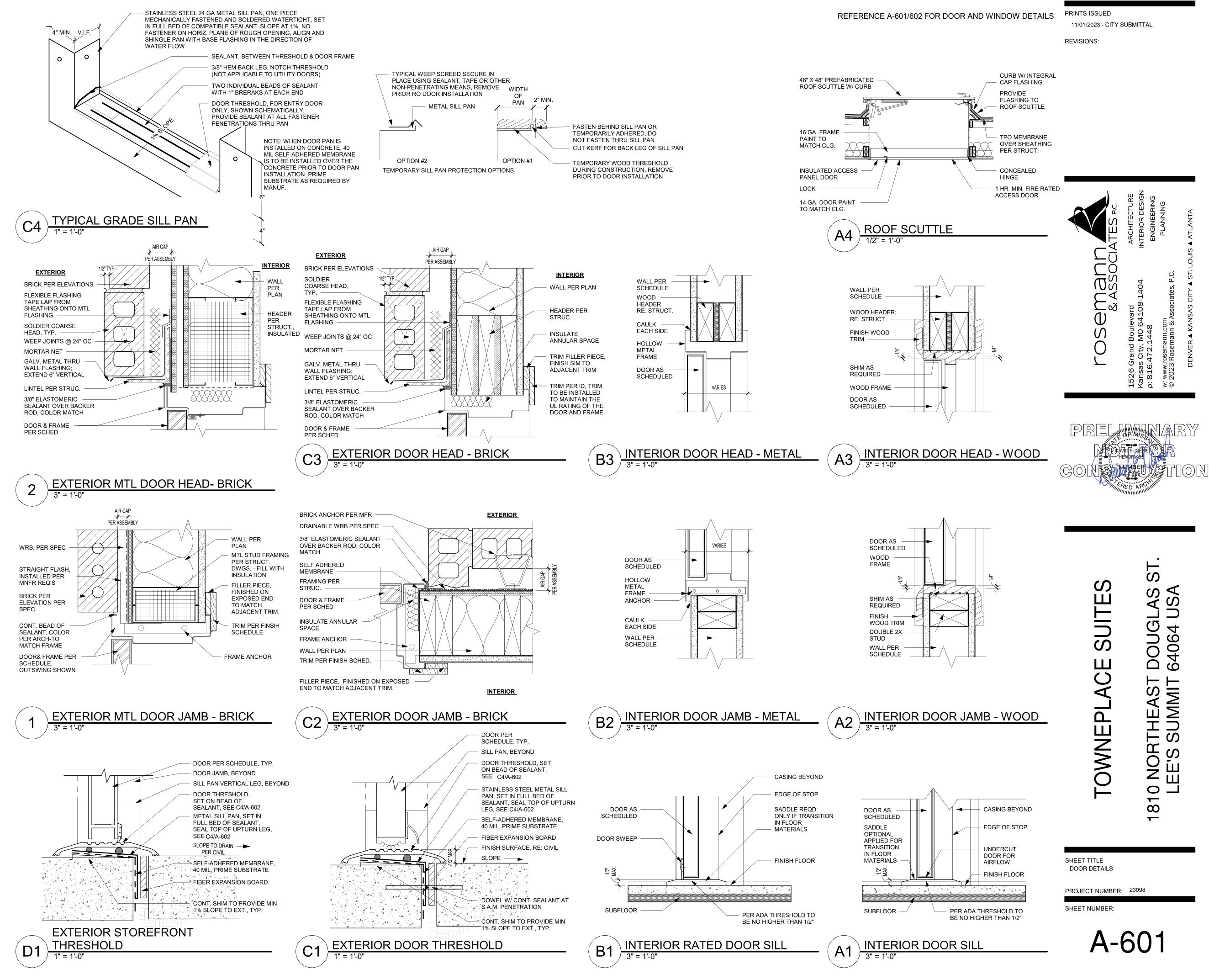
DOOR TYPES

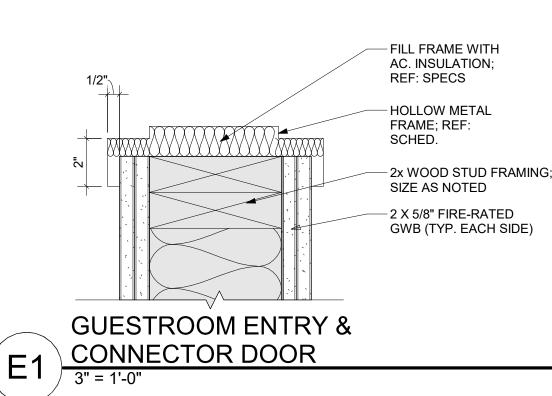




REFERENCE A-601/602 FOR DOOR AND WINDOW DETAILS

PRINTS ISSUED

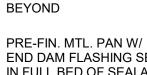












C2

BRICK PER

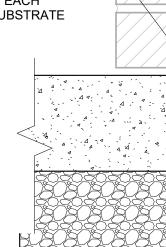
ELEVATION

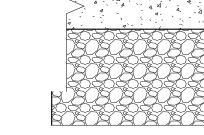
C

END DAM FLASHING SET IN FULL BED OF SEALANT

BACKER ROD AND CONT. BEAD OF SEALANT

SELF ADHERED MEMBRANE, 25 MIL, EXTEND TO BACK OF ROUGH OPENING ACROSS SILL AND 8" UP EACH SIDE, PRIME SUBSTRATE







3" = 1'-0"





3" = 1'-0"

FLEXIBLE FLASHING

PRE-FIN. MTL. "L"

BRICK RETURN

FLASHING, FINISH TO

MATCH STOREFRONT

SHIM AS NECESSARY

BEAD OF SEALANT

PRE-FIN. MTL. SILL

FLASHING BEYOND

ALUM STOREFRONT

SEALANT

PER SPEC.

3" = 1'-0"

BACKER ROD AND CONT.

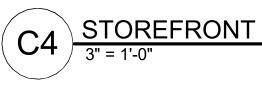
BEAD OF SEALANT BRICK RETURN BEYOND

BACKER ROD AND CONT.

STEEL ANGLE PER STRUCT. DWGS. CONT. BEAD OF SEALANT PRE-FIN. MTL. FLASHING, FINISH TO MATCH STOREFRONT

HEAD, TYP. PRE-FIN. MTL. FLASHNG, PROVIDE WEEPS @ 24" O.C.

BRICK PER ELEVATION WRB W/ POSITIVE OVERLAP SOLDIER COARSE





SHIM AS NECESSARY GRADE, RE: CIVIL CONC. SLAB, RE: STRUCT. DWGS.

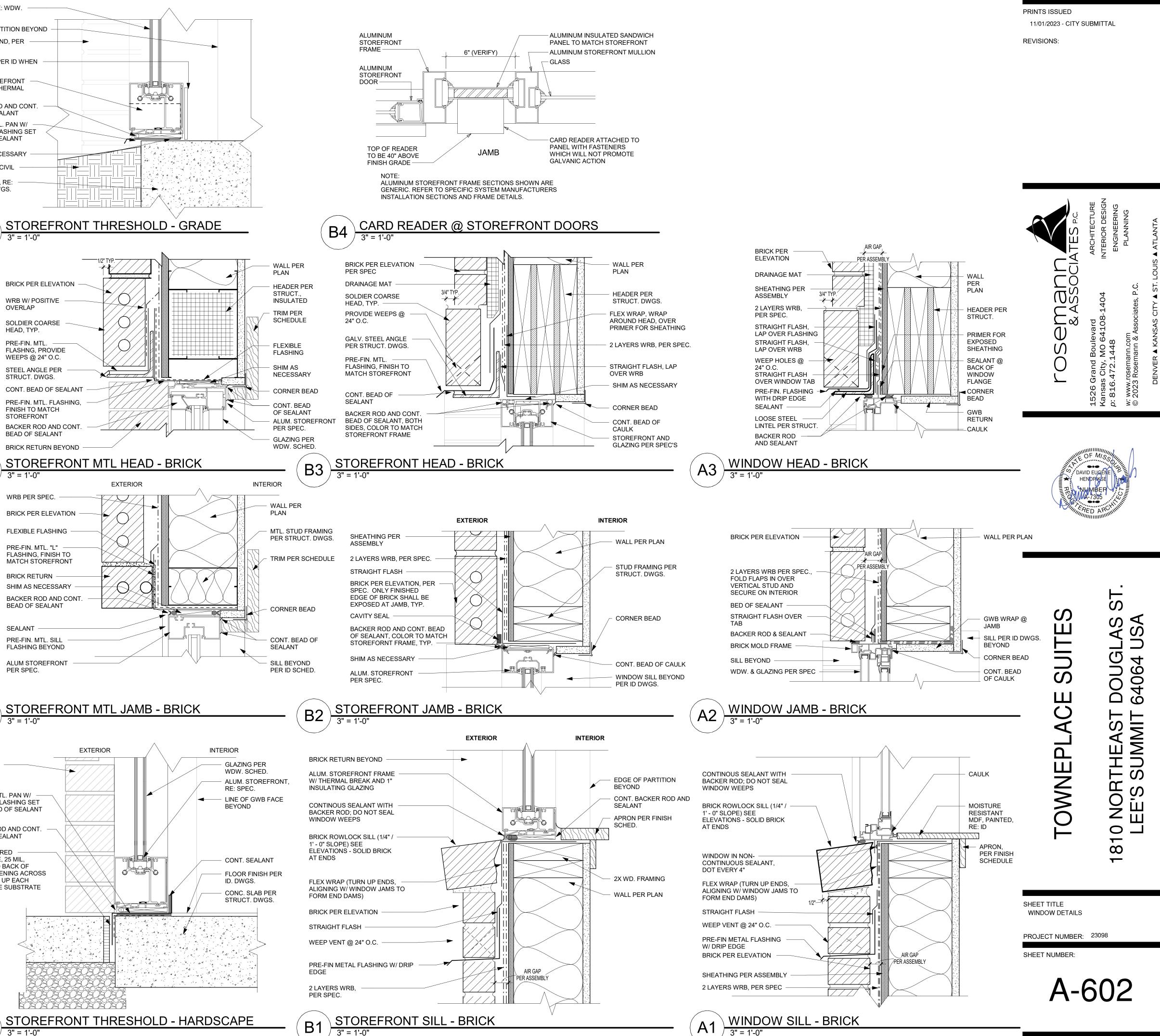
FRAME W/ THERMAL BREAK BACKER ROD AND CONT. BEAD OF SEALANT PRE-FIN. MTL. PAN W/ END DAM FLASHING SET IN BED OF SEALANT

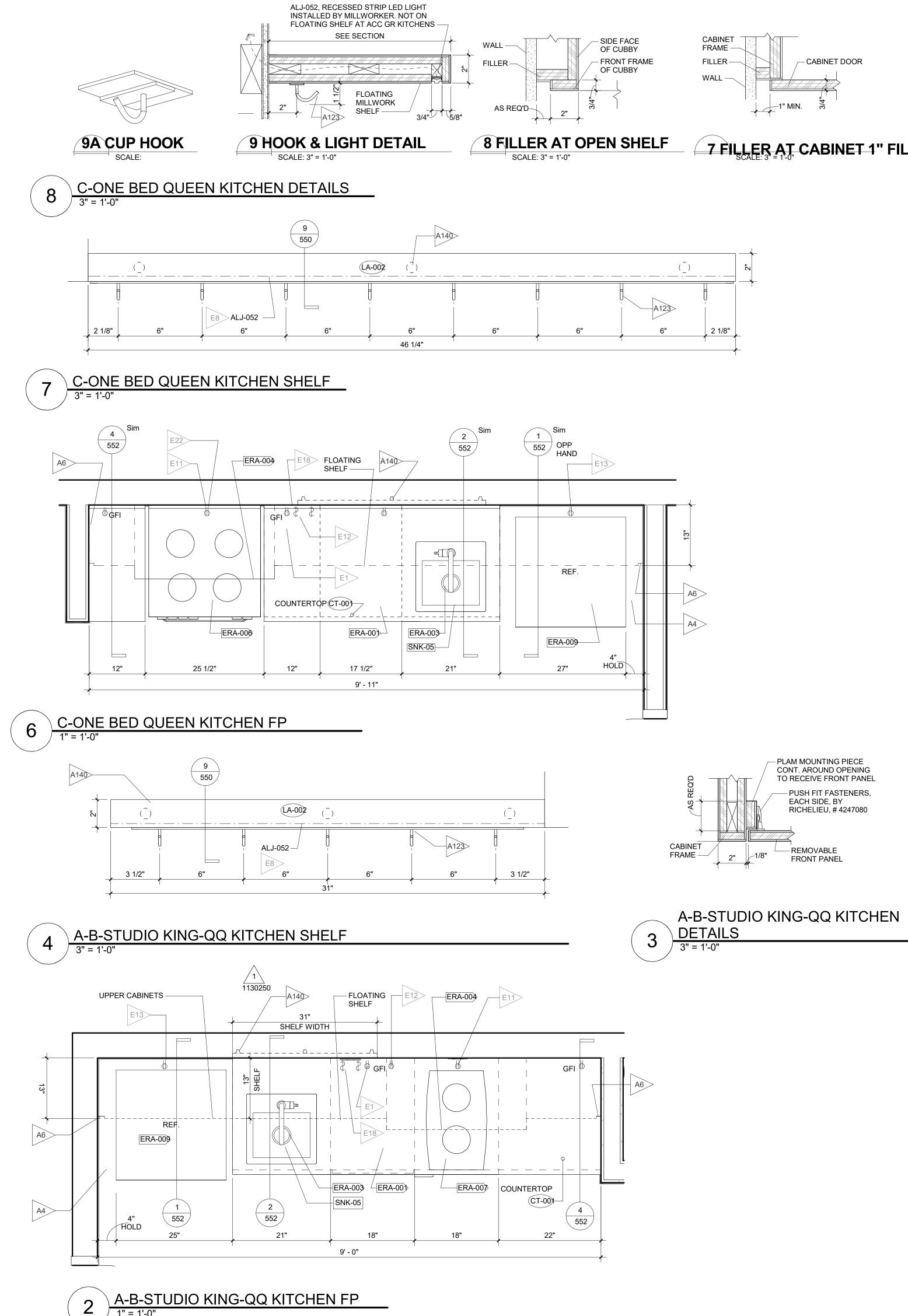
APPLICABLE ALUM. STOREFRONT

BASE TRIM PER ID WHEN

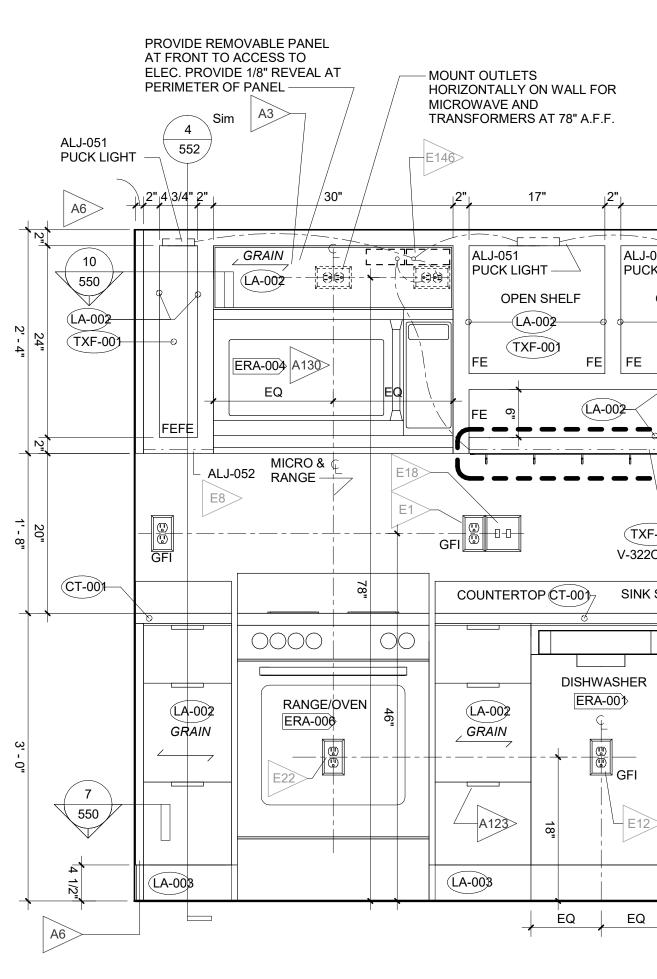
LINE OF PARTITION BEYOND BRICK BEYOND, PER ELEVATIONS

GLAZING, RE: WDW. SCHEDULE





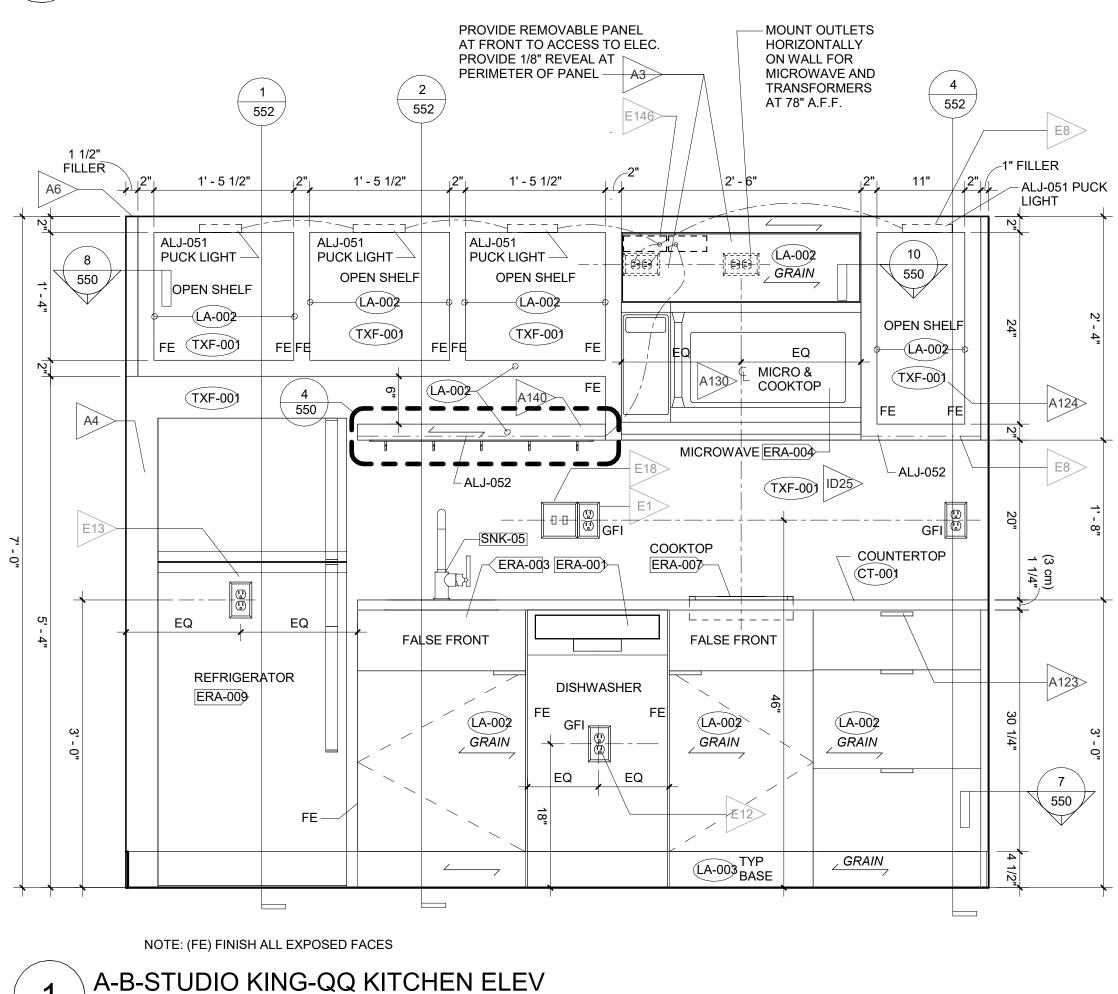
7 FILLER AT CABINET 1" FILLER





5

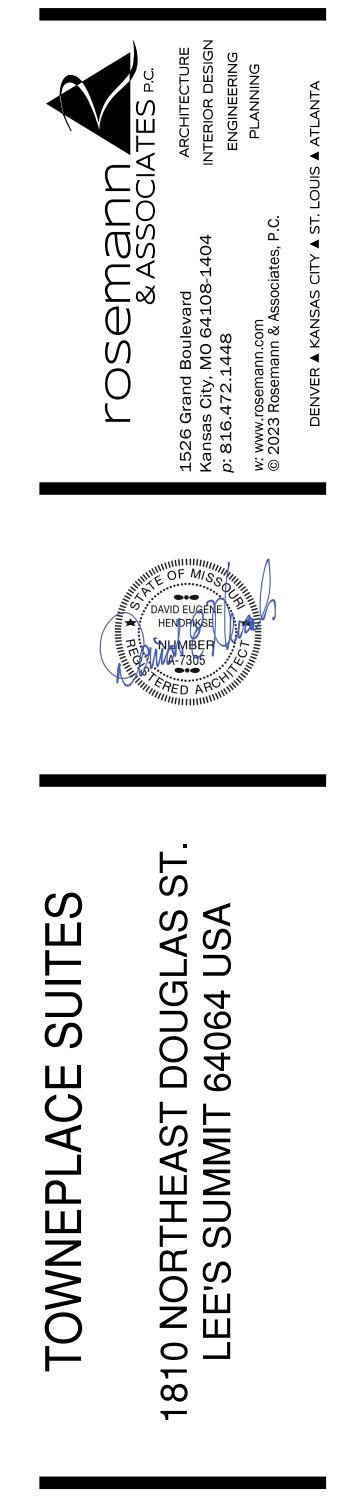
/ 1" = 1'-0"



PRINTS ISSUED 11/01/2023 - CITY SUBMITTAL

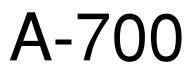
REVISIONS:

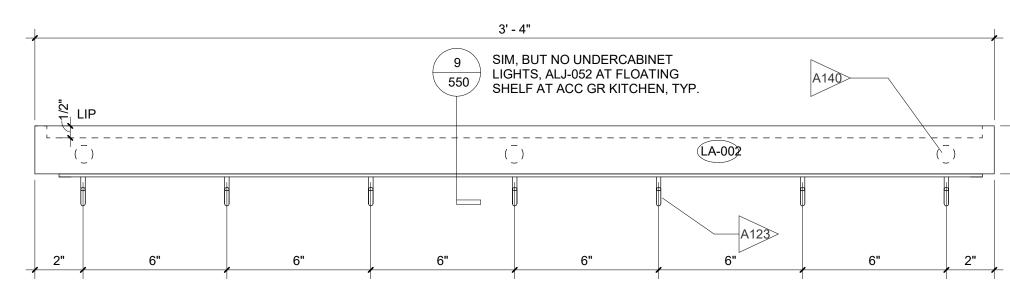
Sim 2 552 552 / HAND -A124 \leftarrow E8> 1 3/8" FILLER 17 17" ALJ-051 ALJ-051 ALJ-051 8 PUCK LIGHT ---PUCK LIGHT -PUCK LIGHT -550 OPEN SHELF OPEN SHELF OPEN SHELF TYP EA SIDE 🛓 -(LA-002-(LA-00)2--(LA-00**2**--TXF-001 (TXF-00) (TXF-00) FE FE FE FE FE| A140> (TXF-00) └─ ALJ-052 REFRIGERATOR (TXF-00) ID25> ERA-009 V-3220PT ERA-003 SINK SNK-05 FALSE FRONT EQ EQ - E13 GFI (LA-002 GRAIN - E12> LA-003



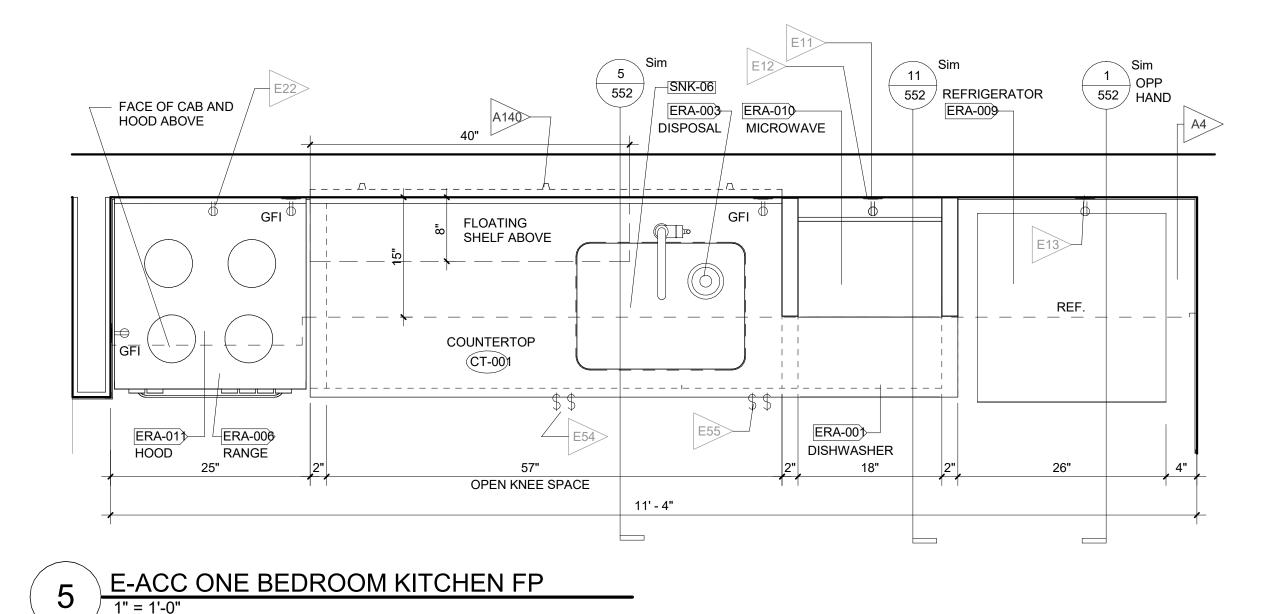
- SHEET TITLE **GESTROOM DETAILS**

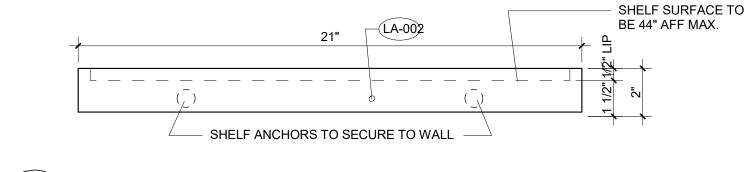
PROJECT NUMBER: 23098



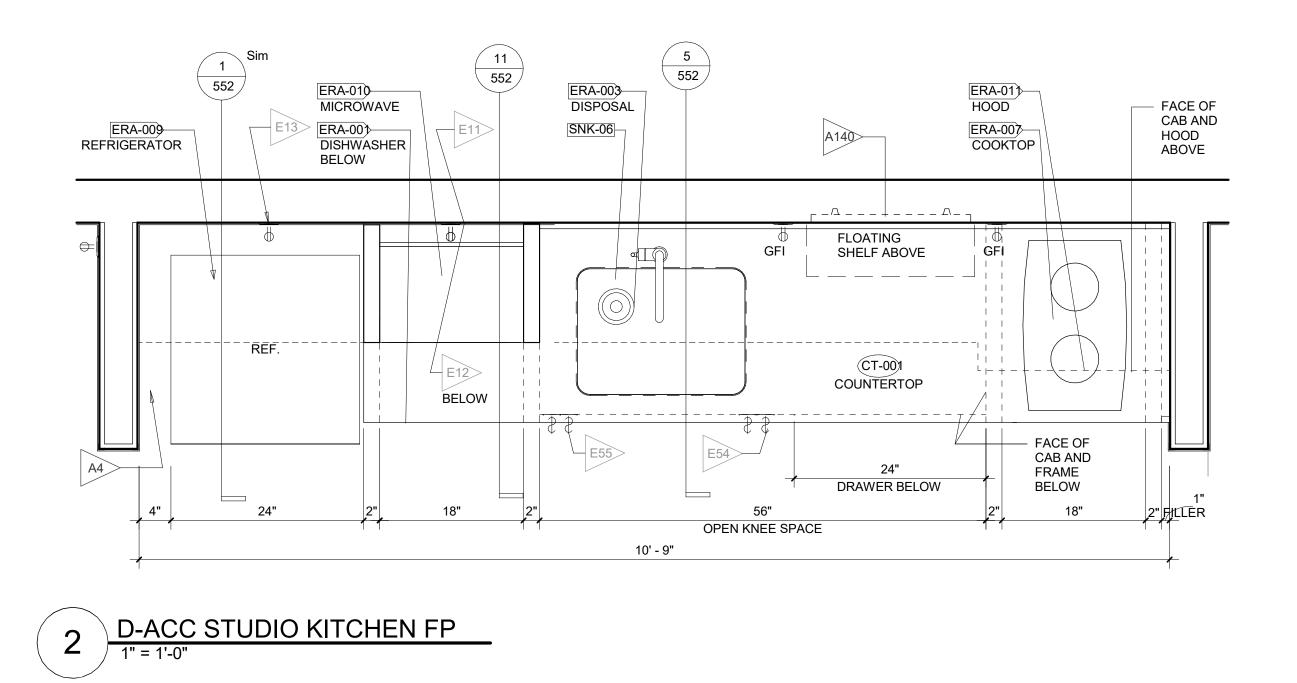


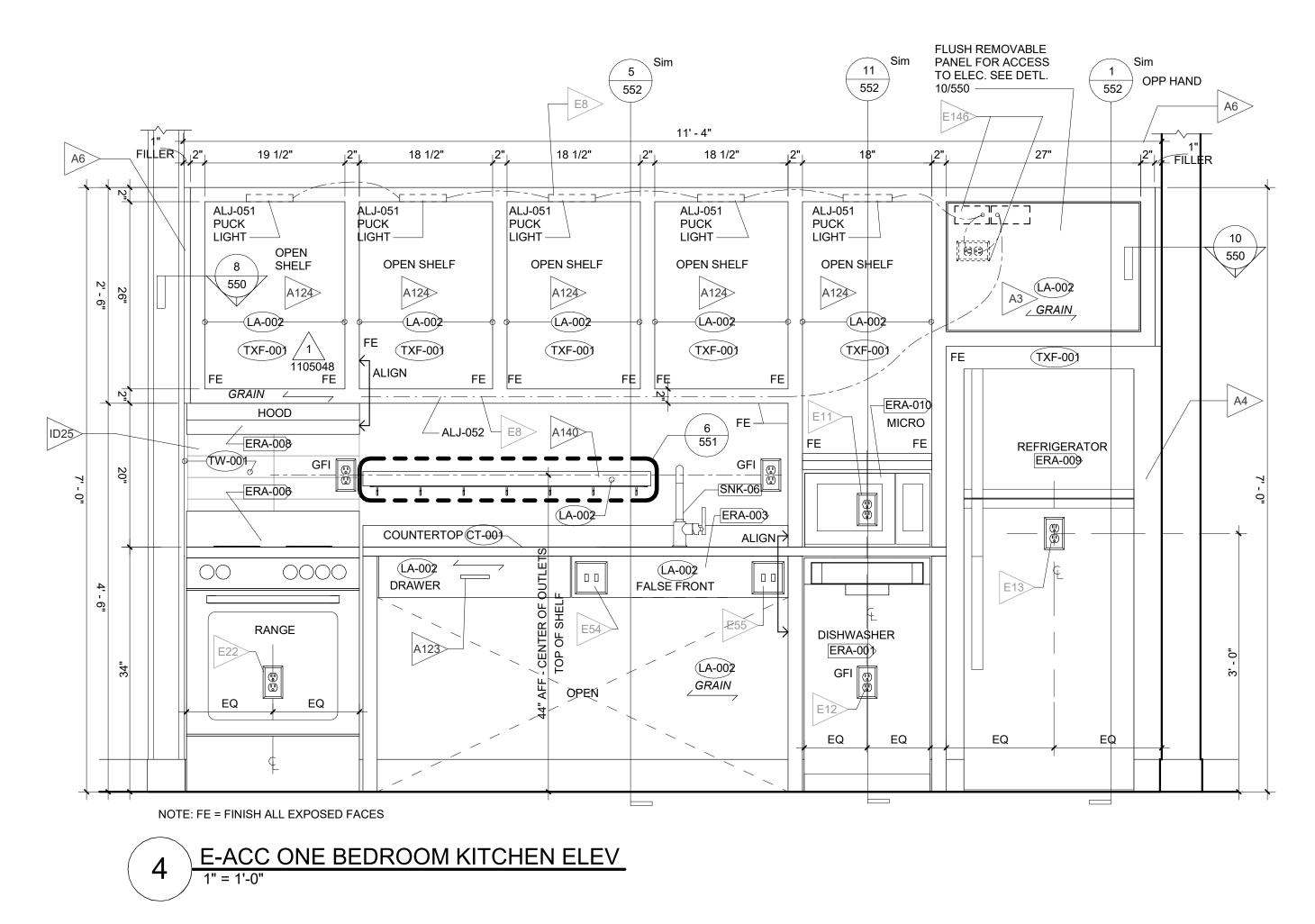


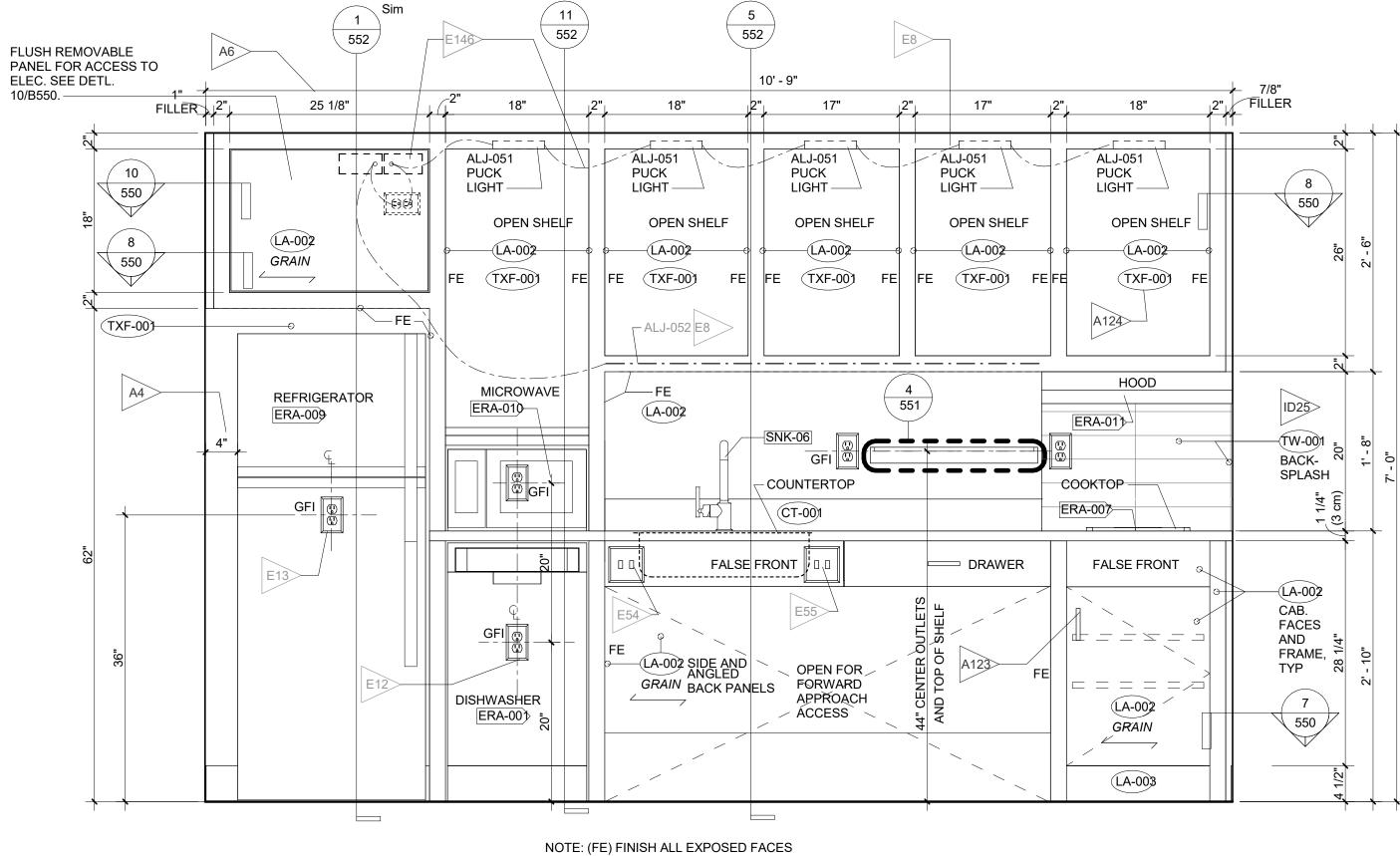










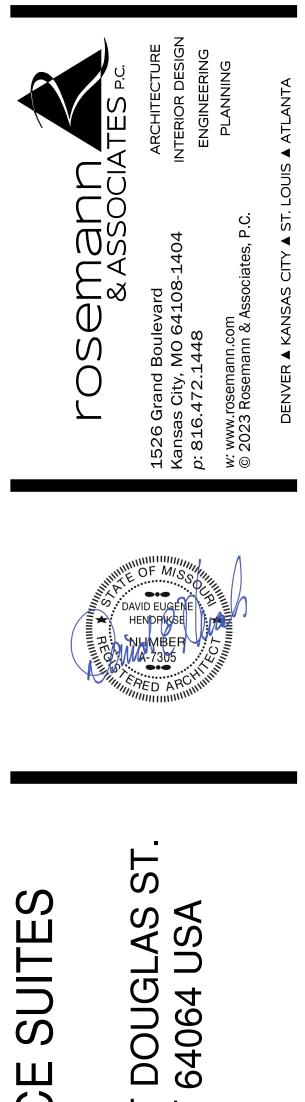


D-ACC STUDIO KITCHEN ELEV

REFERENCE G-003 FOR GENERAL NOTES

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SHEET TITLE

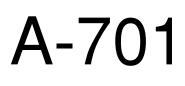
ACE

TOWNEPL

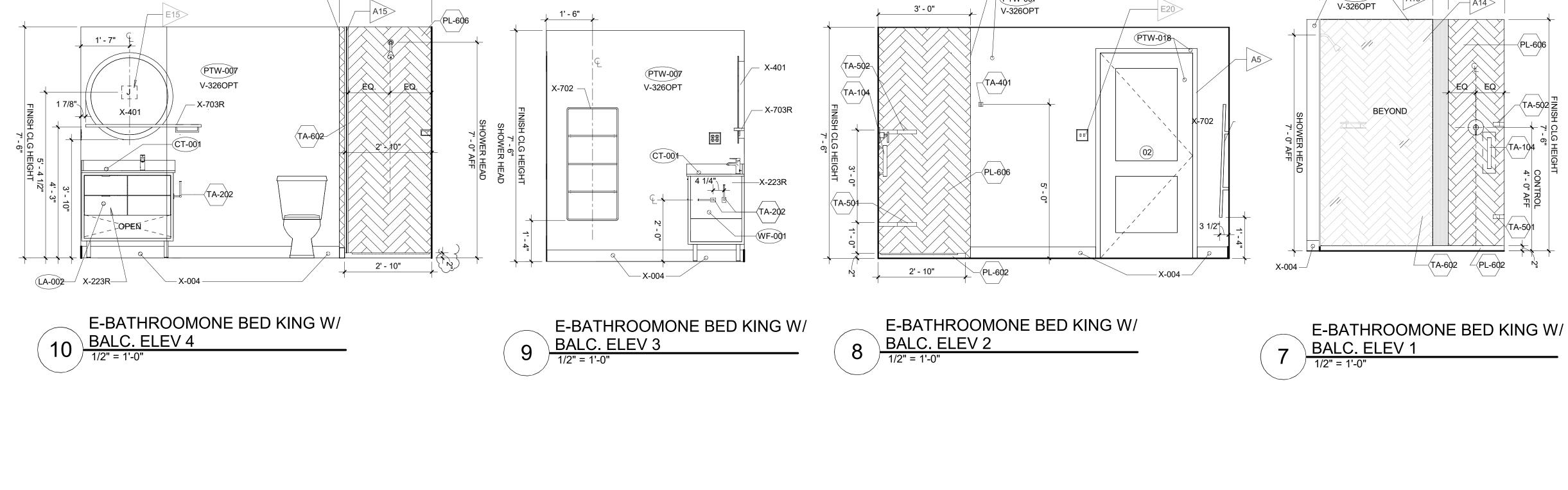
GESTROOM DETAILS - ACC.

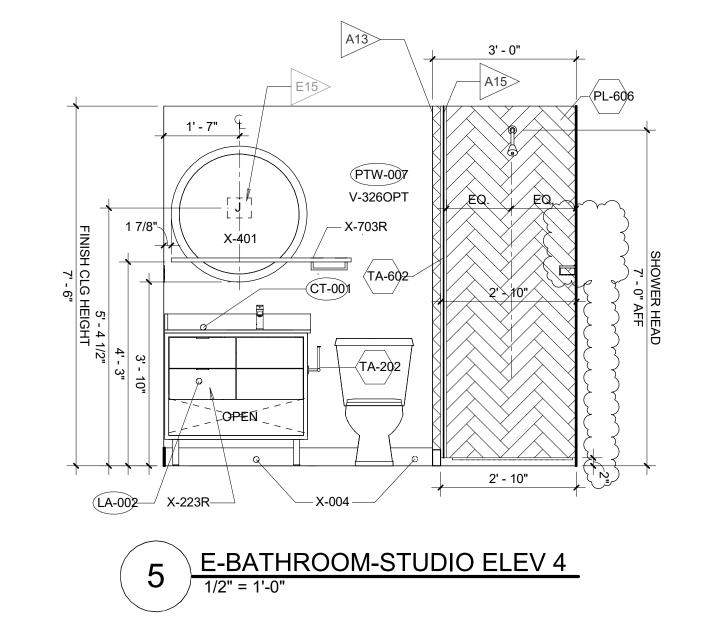
PROJECT NUMBER: 23098

SHEET NUMBER:



1810 NORTHEAST LEE'S SUMMIT



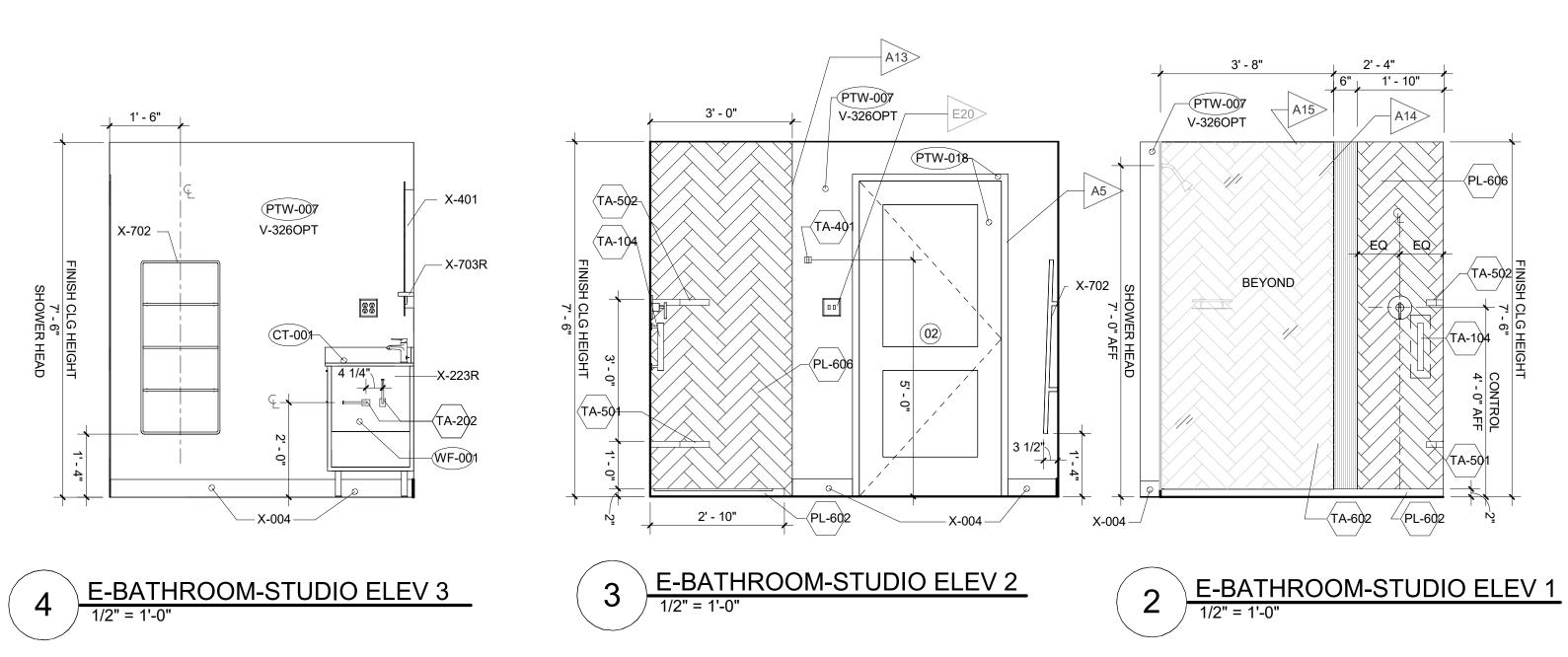


A13

— E15>

3' - 0"

1' - 6"



- A13

PTW-007

V-3260PT

3' - 0"

3' - 8"

- A15>

PTW-007 V-3260PT

2' - 4"

1' - 10"

-A14>

PL-60%

0 4

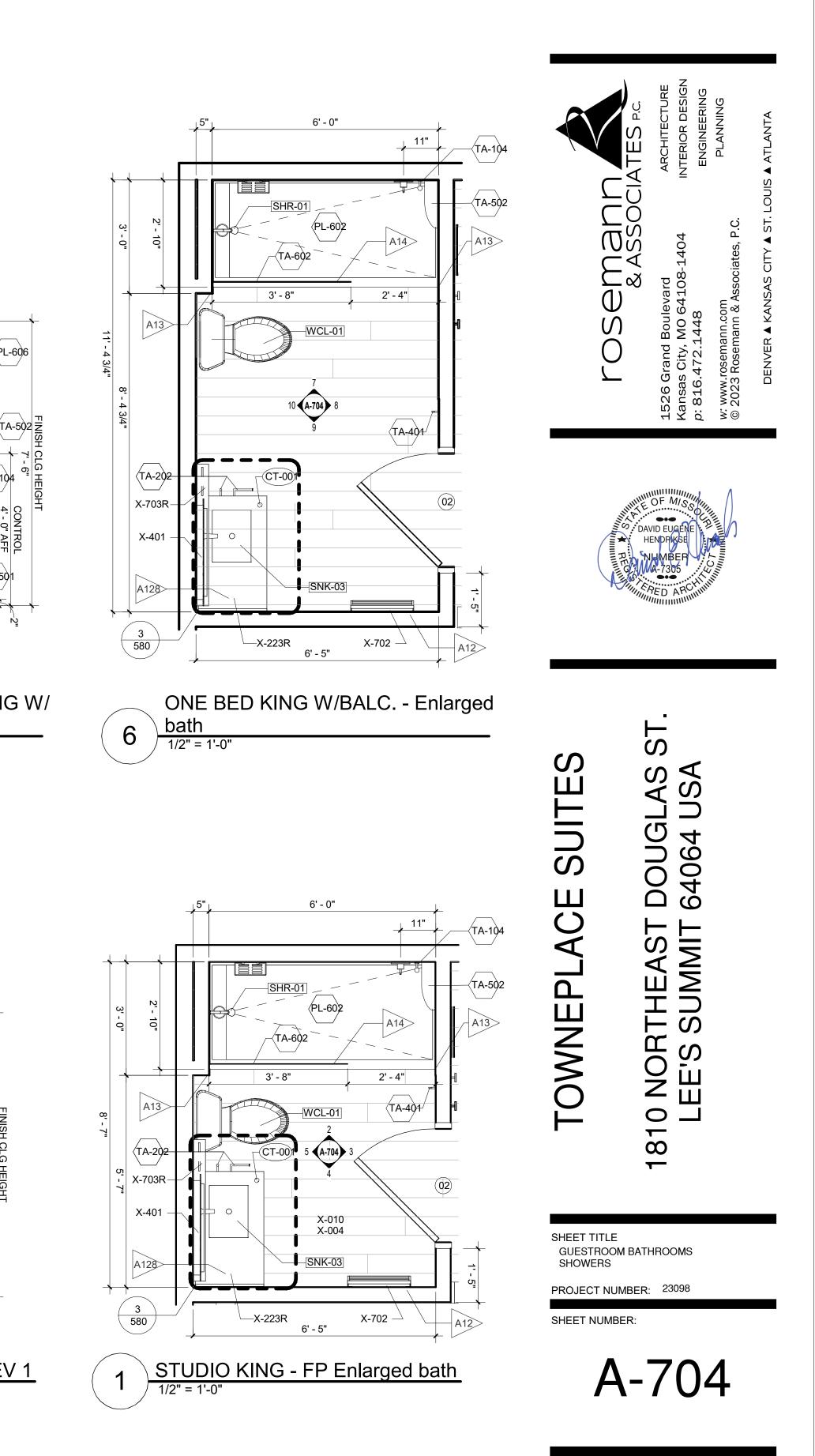
AFF

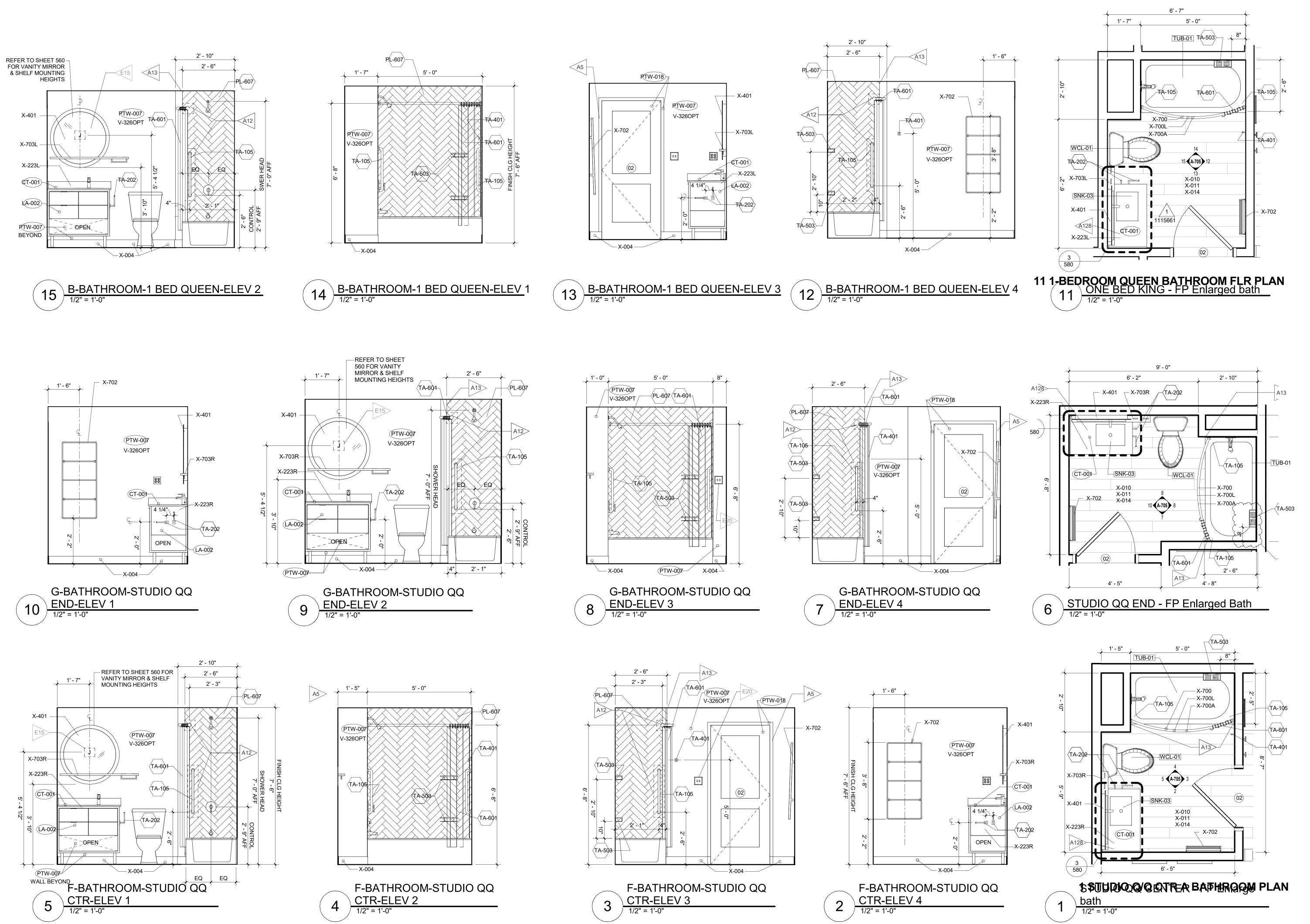
CLG F 7' - 6"



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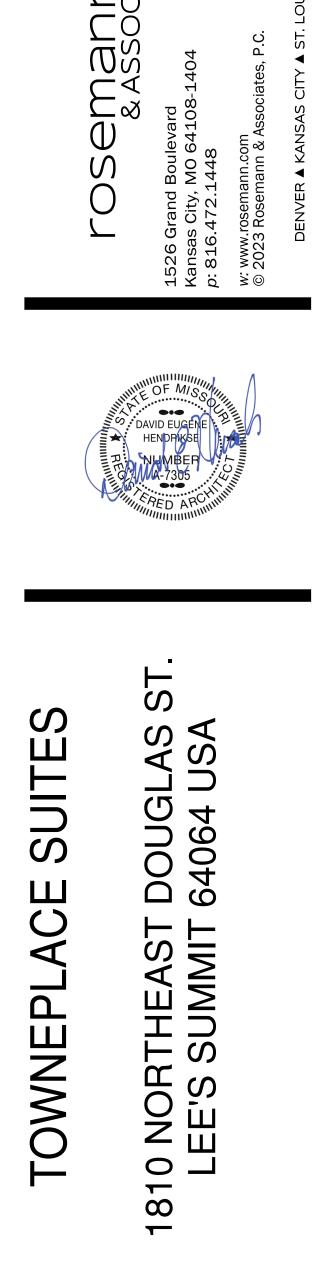


REFERENCE G-003 FOR GENERAL NOTES

PRINTS ISSUED

REVISIONS:

11/01/2023 - CITY SUBMITTAL

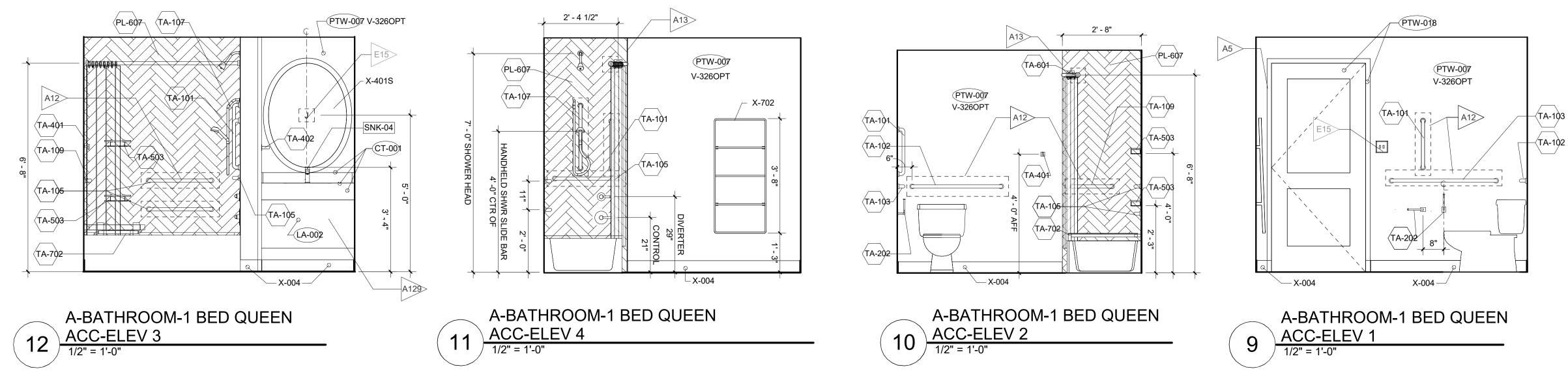


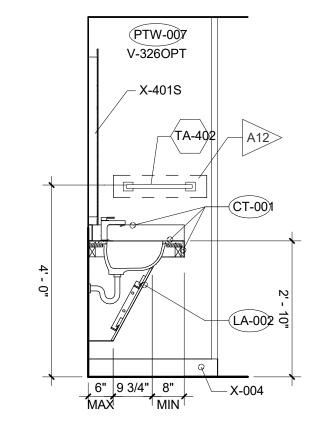
SHEET TITLE

GUESTROOM BATHROOMS TUBS

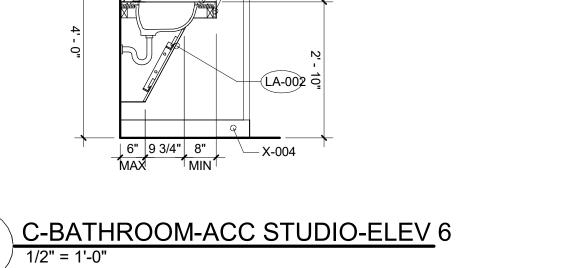
PROJECT NUMBER: 23098

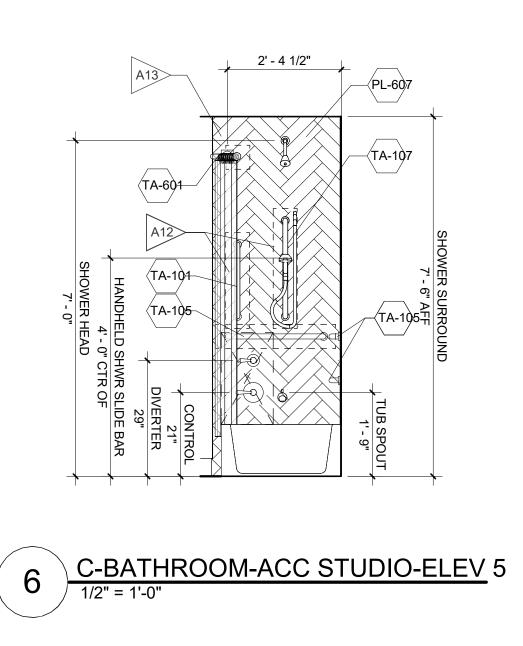


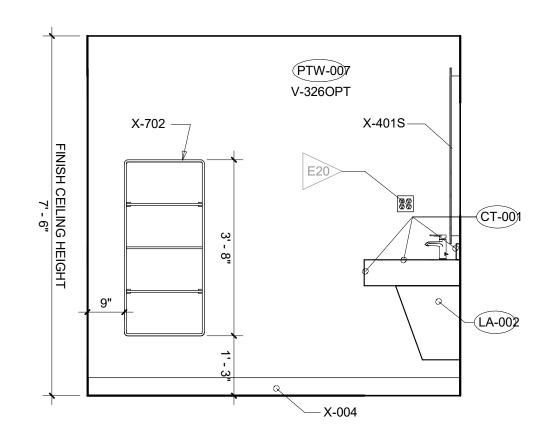


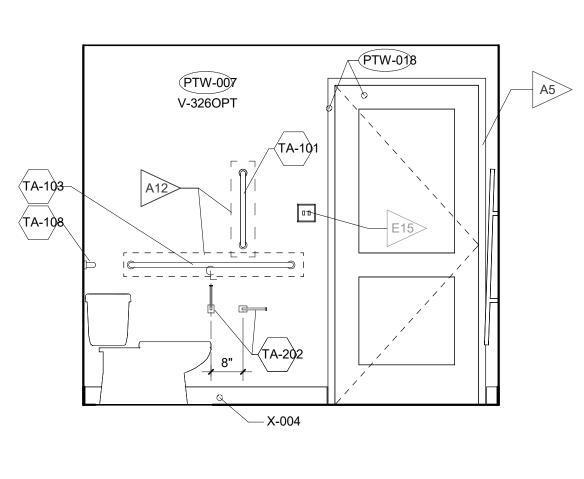


7



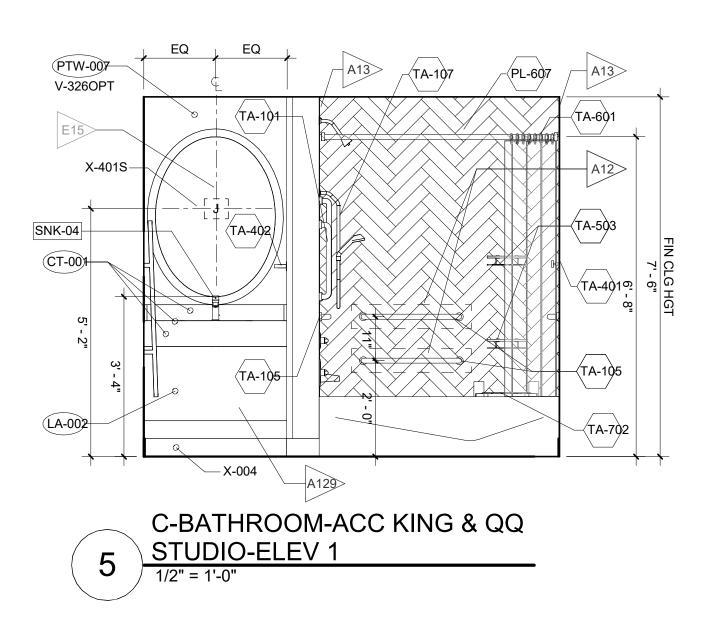




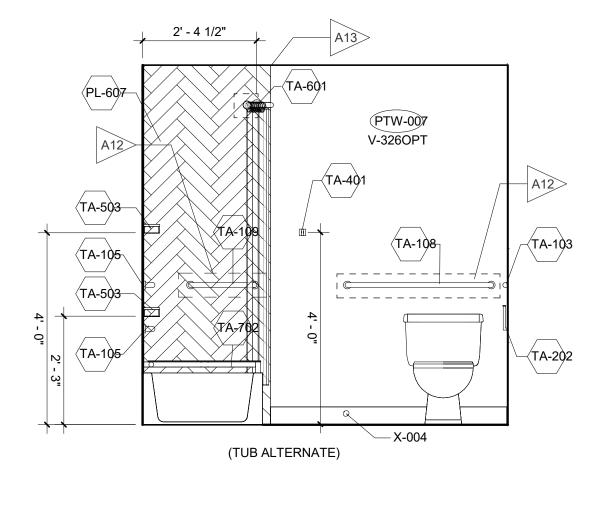








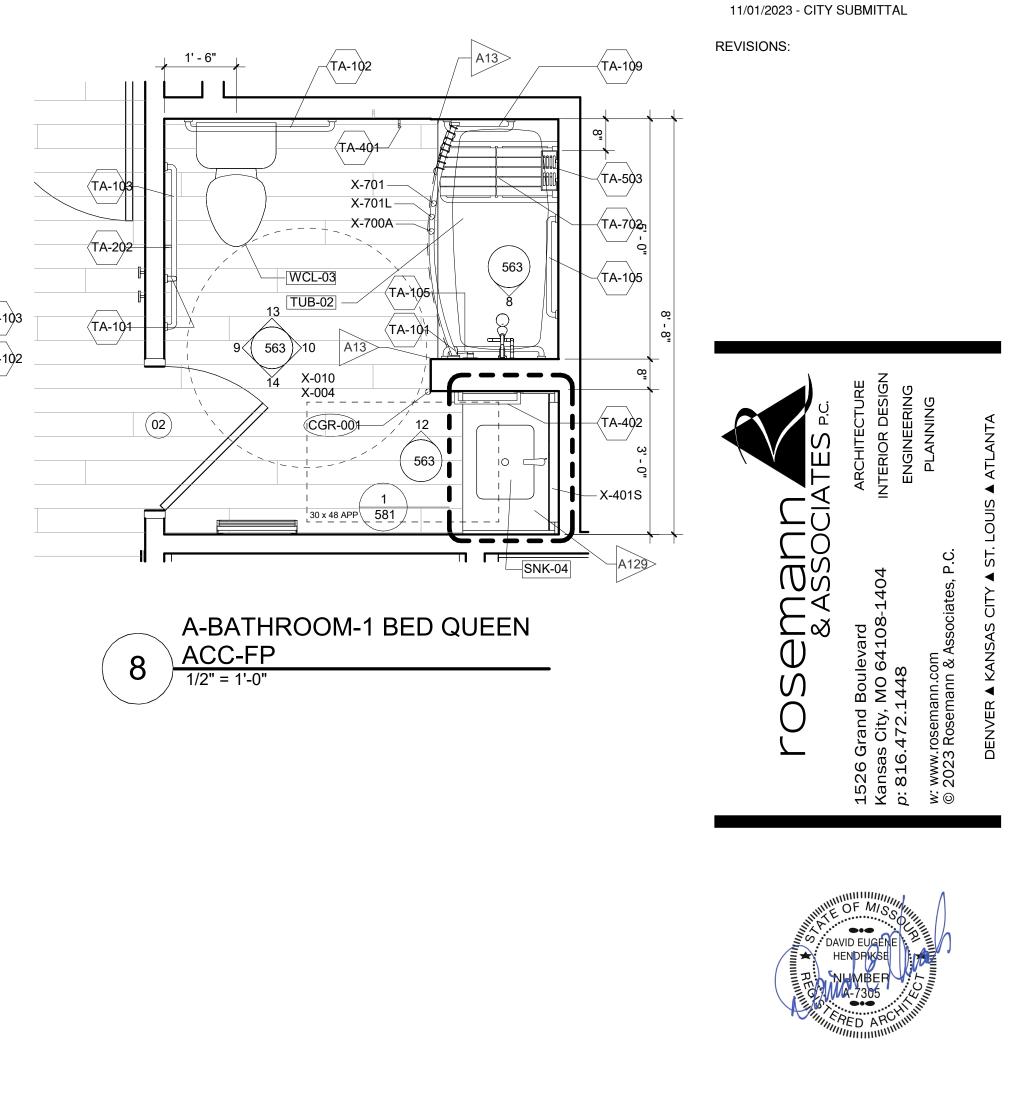
C-BATHROOM-ACC KING & QQ STUDIO-ELEV 3

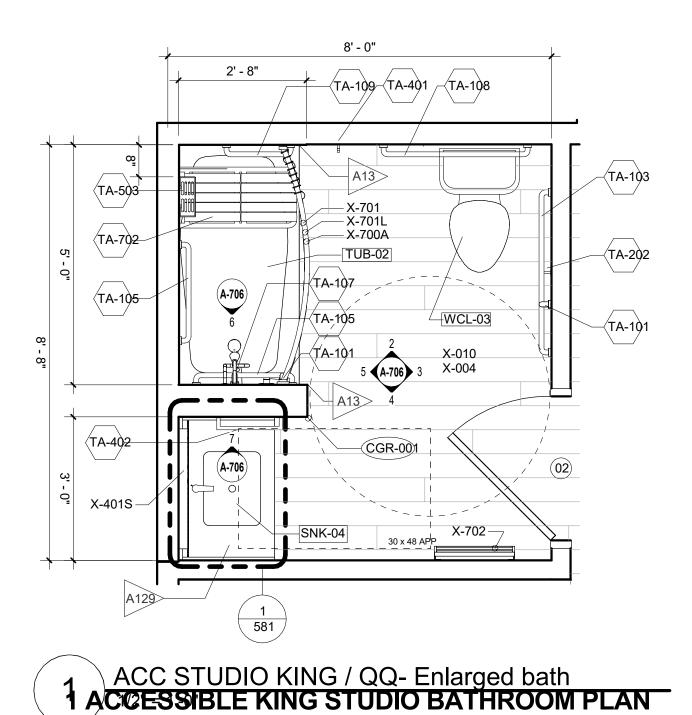




REFERENCE G-003 FOR GENERAL NOTES

PRINTS ISSUED





ACE SUITES TOWNEPL

ST

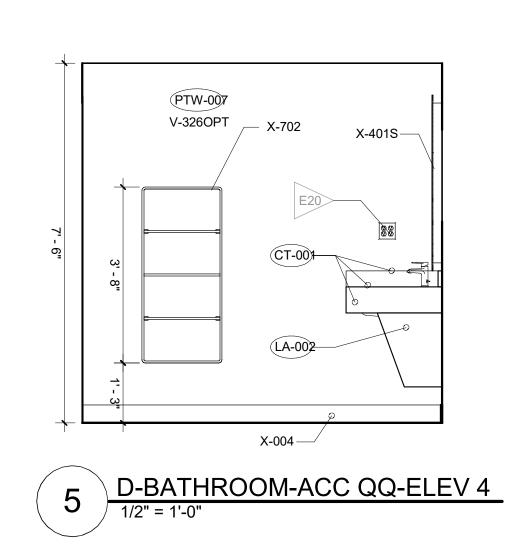
DOUGLAS 64064 USA

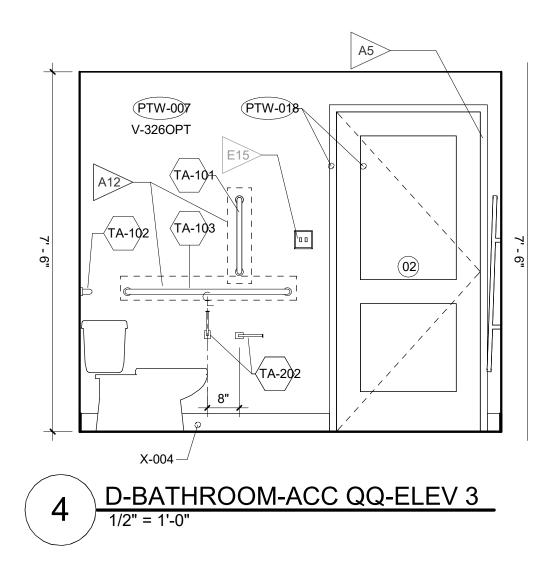
1810 NORTHEAST LEE'S SUMMIT

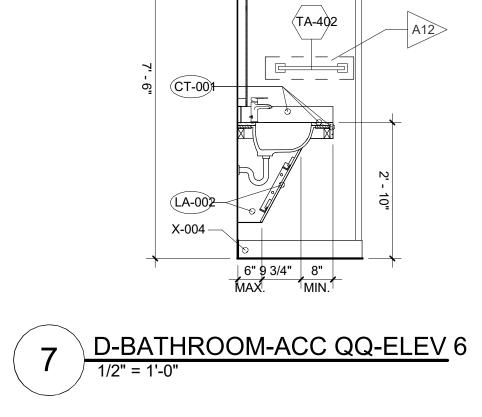
SHEET TITLE ACC. GUESTROOM BATHROOMS TUBS

PROJECT NUMBER: 23098





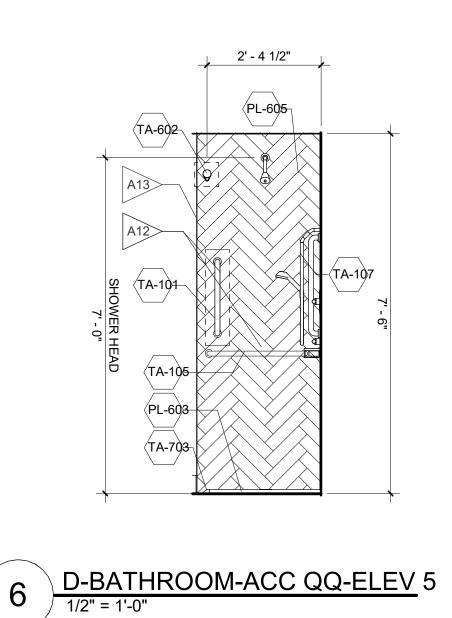


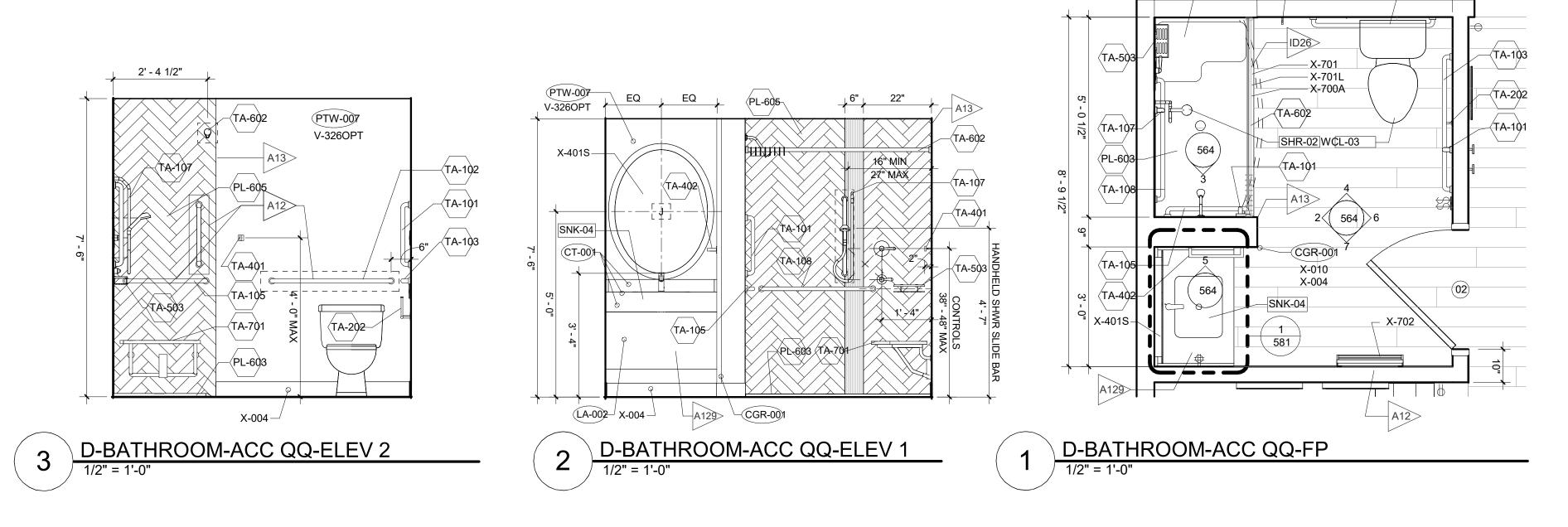


X-401S-

(PTW-007

V-3260PT





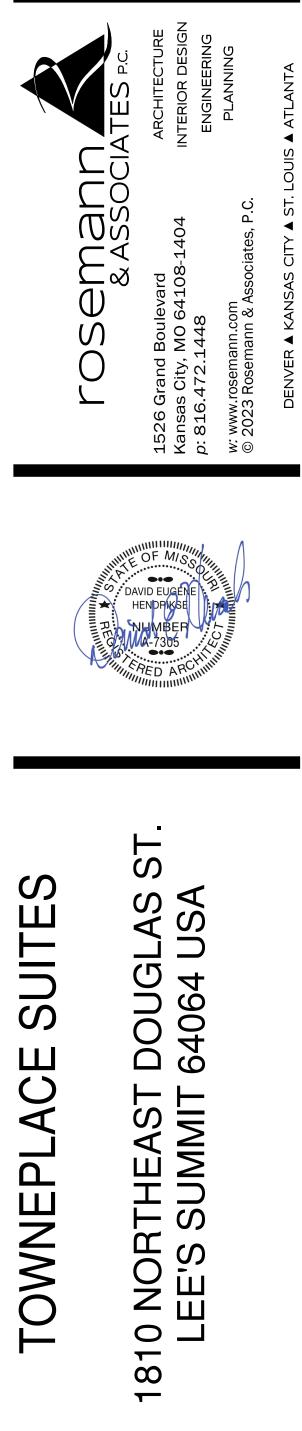
7' - 6"

(TA-40)1

√TA-10

- A13

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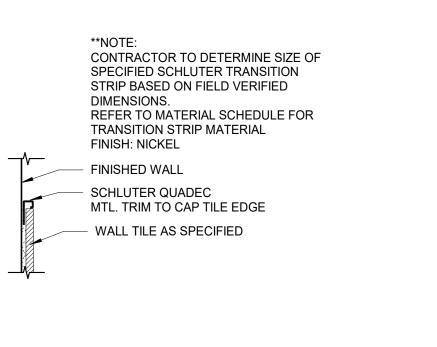


SHEET TITLE ACC. GUESTROOM BATHROOMS ROLL-IN

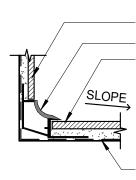
PROJECT NUMBER: 23098







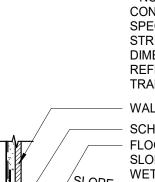




TRANSITION STRIP MATERIAL WALL TILE AS SPECIFIED SCHLUTER DILEX-HK FLOOR TILE AS SPECIFIED. SLOPE FLOOR TO DRAIN @ WET AREAS (WHERE INDICATED)

WATERPROOFING MEMBRANE

(@ WET AREAS)



D3 FLOOR FINISH TRANSITION LOCATION SCALE: 3" = 1'-0"

**NOTE: CONTRACTOR TO DETERMINE SIZE OF SPECIFIED SCHLUTER TRANSITION STRIP BASED ON FIELD VERIFIED DIMENSIONS. REFER TO MATERIAL SCHEDULE FOR

VERTICAL CHANGES IN LEVEL MAY BE

CHANGES IN LEVEL BETWEEN 1/4" HIGH

MIN. & 1/2" HIGH MAX. SHALL BE

SCHEDULED FLOOR FINISH

SCHEDULED FLOOR FINISH

BEVELED W/ A SLOPE NOT STEEPER

SCHEDULED FLOOR FINISH

SCHEDULED FLOOR FINISH

1/4" HIGH MAX.

THAN 1:2

D4 FLOOR FINISH TRANSITION-CHANGE IN LEVEL SCALE: 3" = 1'-0"

**NOTE:

OF DOOR

SCHEDULED FLOOR FINISH SCHEDULED FLOOR FINISH

<u>م</u>

REFER TO MATERIAL

TRANSITION FINISHES

- DOOR PER SCHEDULE

- CENTER THE FLOOR

CHANGE TRANSITION

(SIM. @ CASED OPENING)

SCHEDULE/ DETAILS FOR

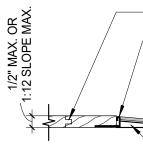
TRANSITION



SCALE: 3" = 1'-0"



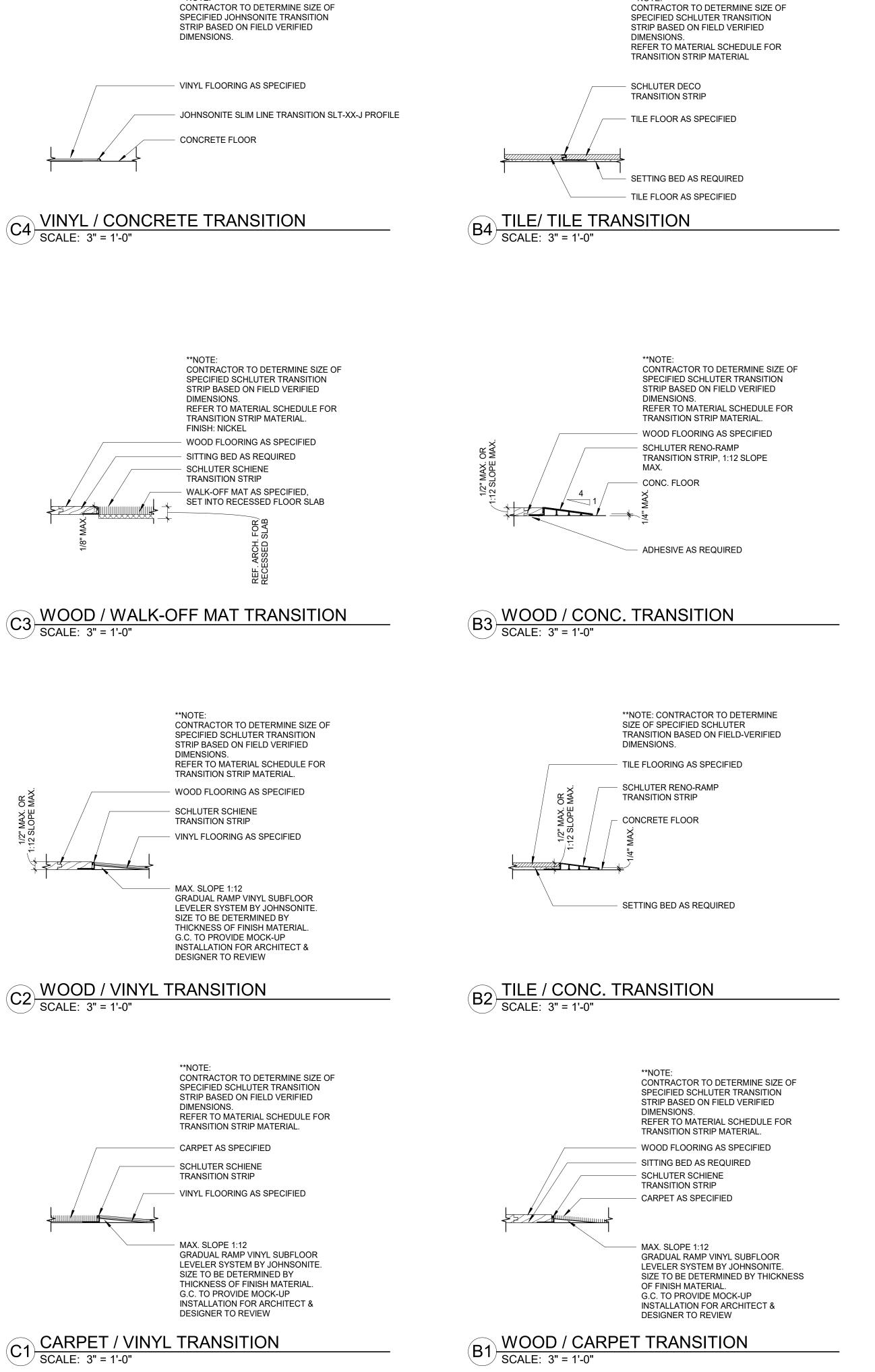
**NOTE:



C2 SCALE: 3" = 1'-0"







**NOTE:

CONTRACTOR TO DETERMINE SIZE OF SPECIFIED SCHLUTER TRANSITION STRIP BASED ON FIELD VERIFIED DIMENSIONS. REFER TO MATERIAL SCHEDULE FOR TRANSITION STRIP MATERIAL TILE FLOORING AS SPECIFIED SETTING BED AS REQUIRED SCHLUTER SCHIENE TRANSITION STRIP WOOD FLOORING AS

SPECIFIED ADHESIVE AS REQUIRED

**NOTE:

TILE / WOOD TRANSITION SCALE: 3" = 1'-0"

> **NOTE: CONTRACTOR TO DETERMINE SIZE OF SPECIFIED SCHLUTER TRANSITION STRIP BASED ON FIELD VERIFIED DIMENSIONS. REFER TO MATERIAL SCHEDULE FOR TRANSITION STRIP MATERIAL

TILE FLOORING AS SPECIFIED SETTING BED AS REQUIRED SCHLUTER SCHIENE TRANSITION STRIP

CARPET AS SPECIFIED

A3 TILE / CARPET TRANSITION SCALE: 3" = 1'-0"

**NOTE: CONTRACTOR TO DETERMINE SIZE OF SPECIFIED SCHLUTER TRANSITION STRIP BASED ON FIELD VERIFIED DIMENSIONS. REFER TO MATERIAL SCHEDULE FOR TRANSITION STRIP MATERIAL

TILE FLOORING AS SPECIFIED SETTING BED AS REQUIRED SCHLUTER SCHIENE TRANSITION STRIP

VINYL FLOORING AS SPECIFIED

MAX. SLOPE 1:12 GRADUAL RAMP VINYL SUBFLOOR LEVELER SYSTEM BY JOHNSONITE. SIZE TO BE DETERMINED BY THICKNESS OF FINISH MATERIAL G.C. TO PROVIDE MOCK-UP **INSTALLATION FOR ARCHITECT &** DESIGNER TO REVIEW

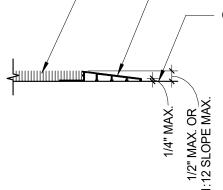
A2 TILE / VINYL TRANSITION SCALE: 3" = 1'-0"

**NOTE: CONTRACTOR TO DETERMINE SIZE OF SPECIFIED SCHLUTER TRANSITION STRIP BASED ON FIELD-VERIFIED DIMENSIONS.

CARPET AS SPECIFIED

SCHLUTER RENO-RAMP TRANSITION STRIP

CONCRETE FLOOR



CARPET / CONC. TRANSITION SCALE: 3" = 1'-0"

Semar & ASSC lievard 64108 MO \frown City, 172.



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S S \square DOUGI 64064 1 **THEAST** SUMMIT NOR EE'S 0 Ω

SHEET TITLE

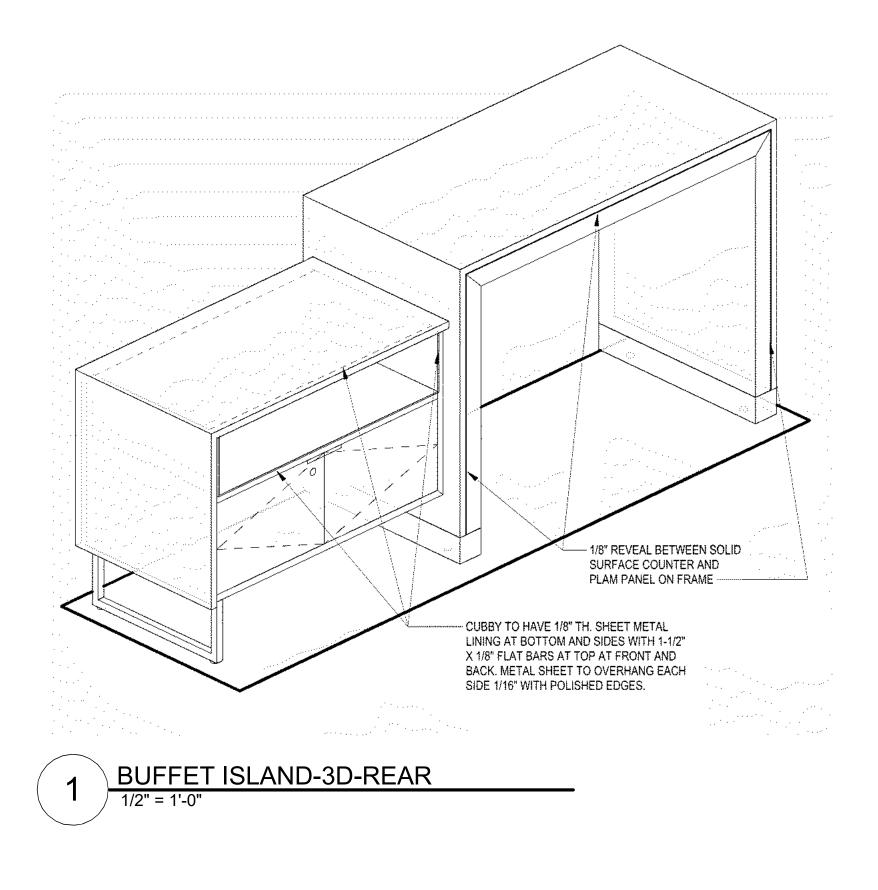
FINISH TRANSITION DETAILS

PROJECT NUMBER: 23098

SHEET NUMBER:

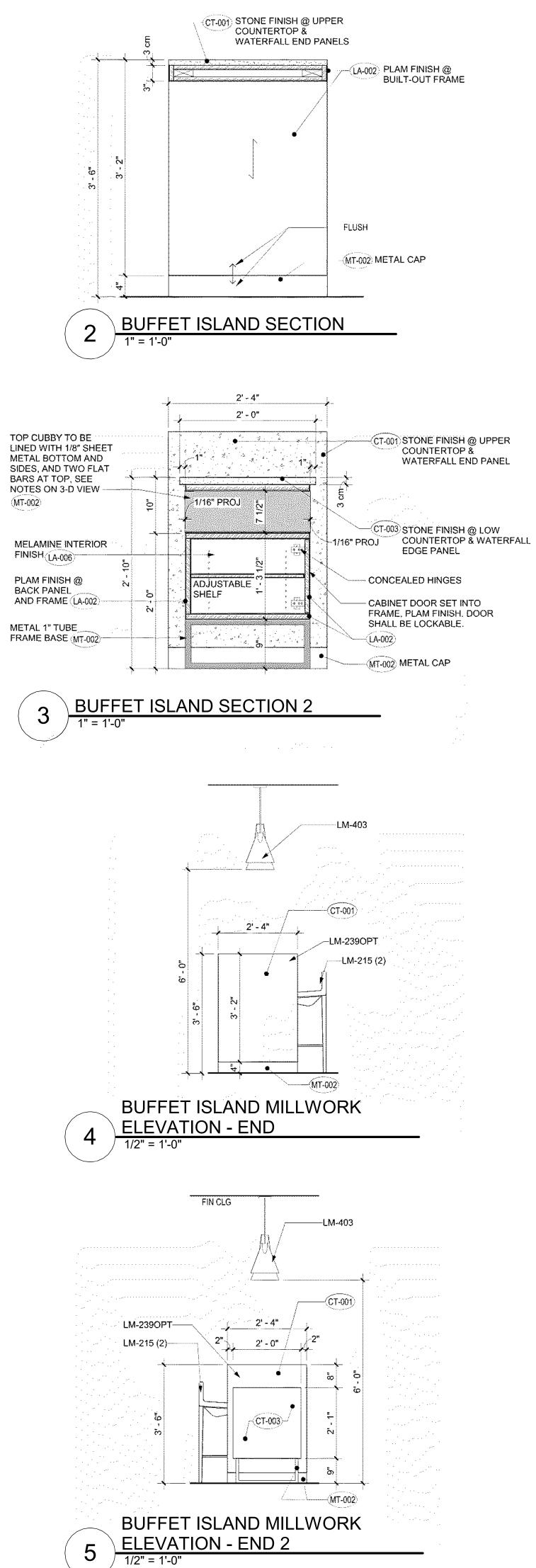


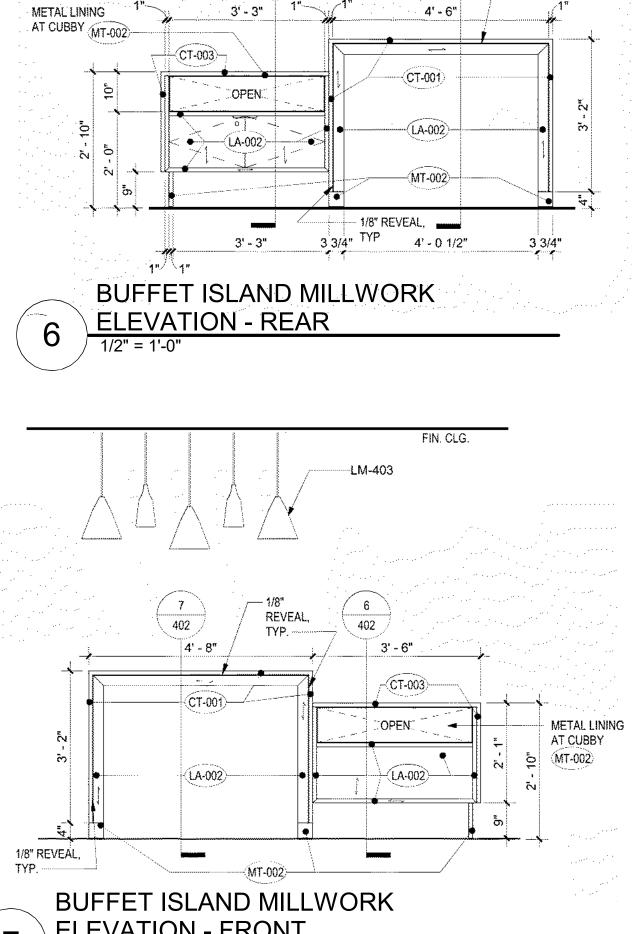
PRINTS ISSUED 11/01/2023 - CITY SUBMITTAL **REVISIONS:**



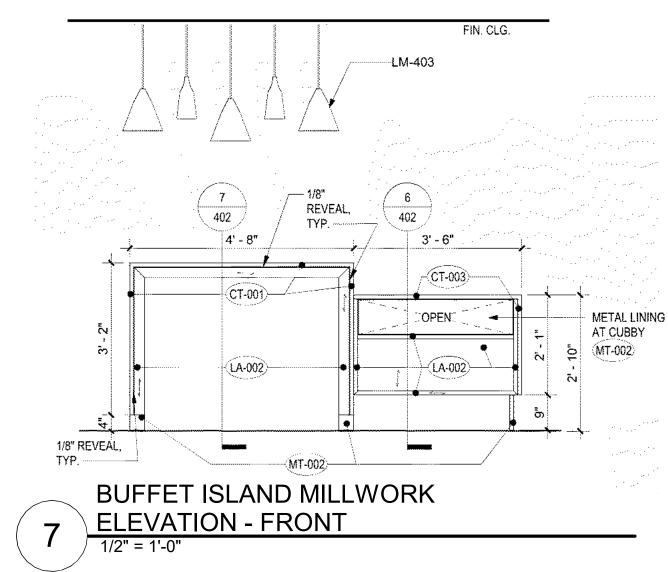


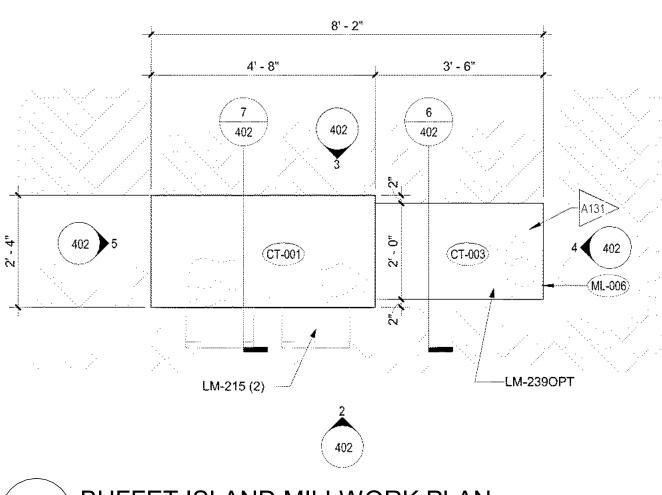
CHECK VIEW AT PAGE 402 IN PROTO





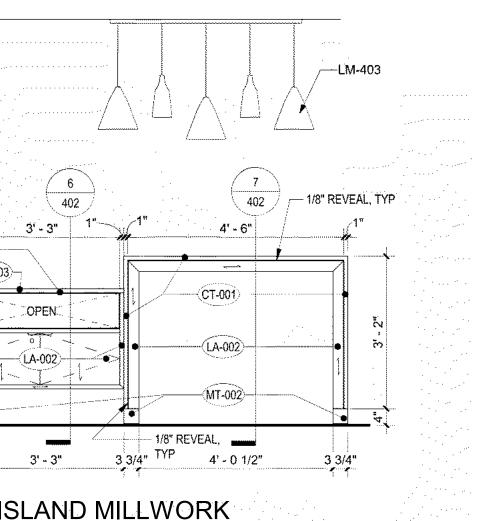
FIN. CLG.

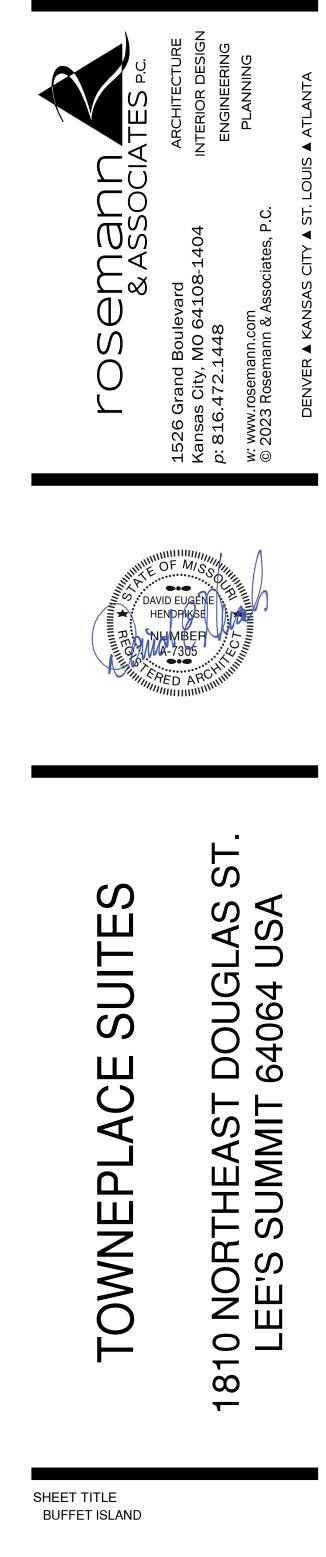




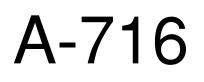


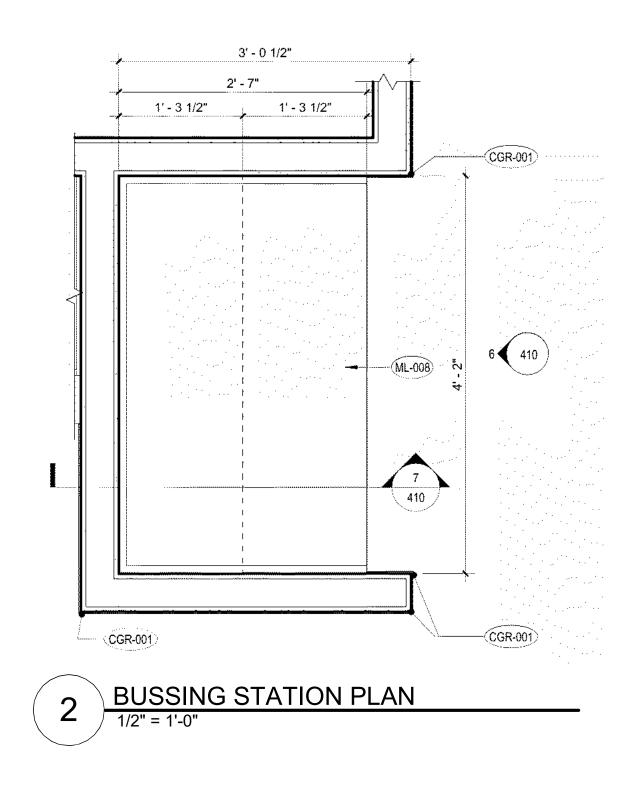
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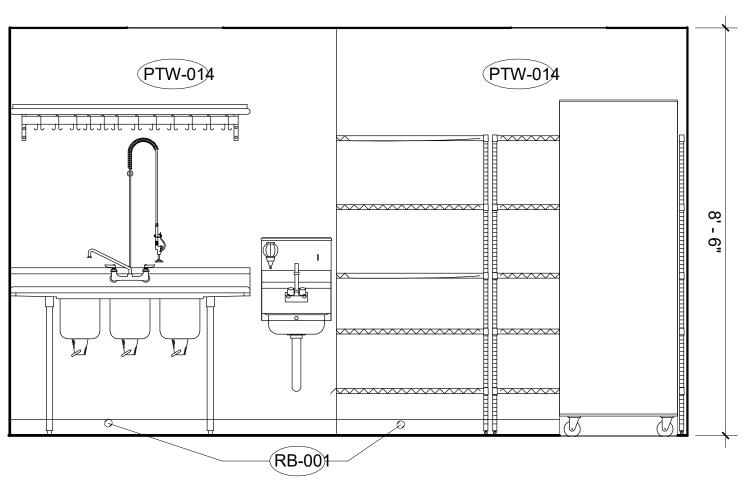




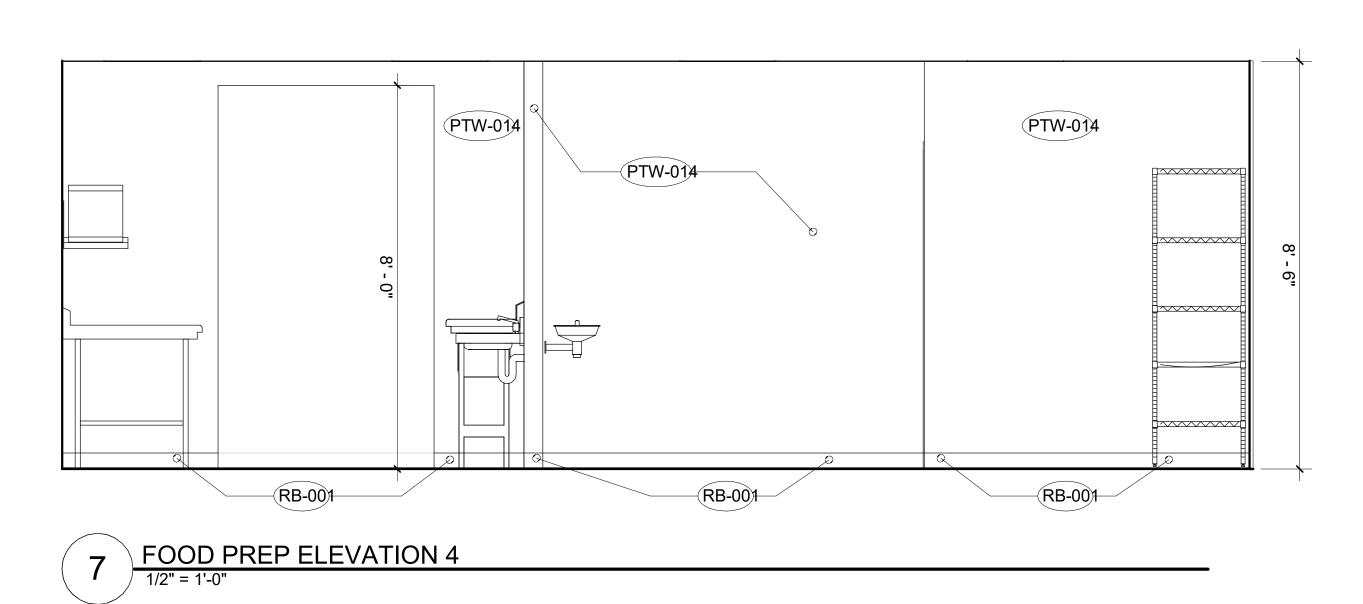
PROJECT NUMBER: 23098



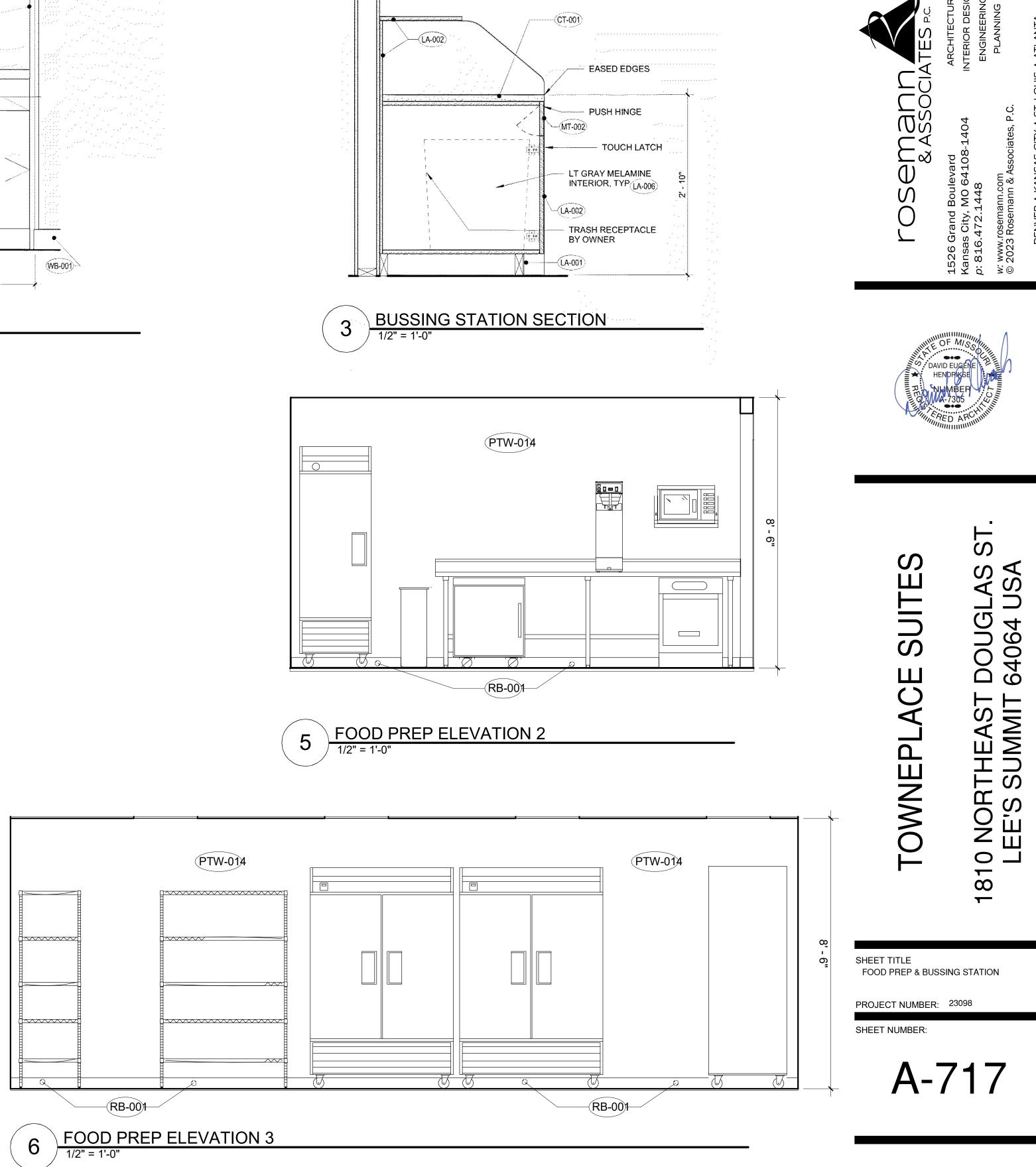


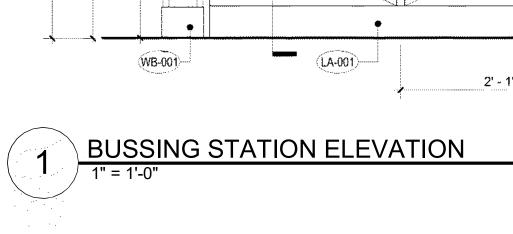


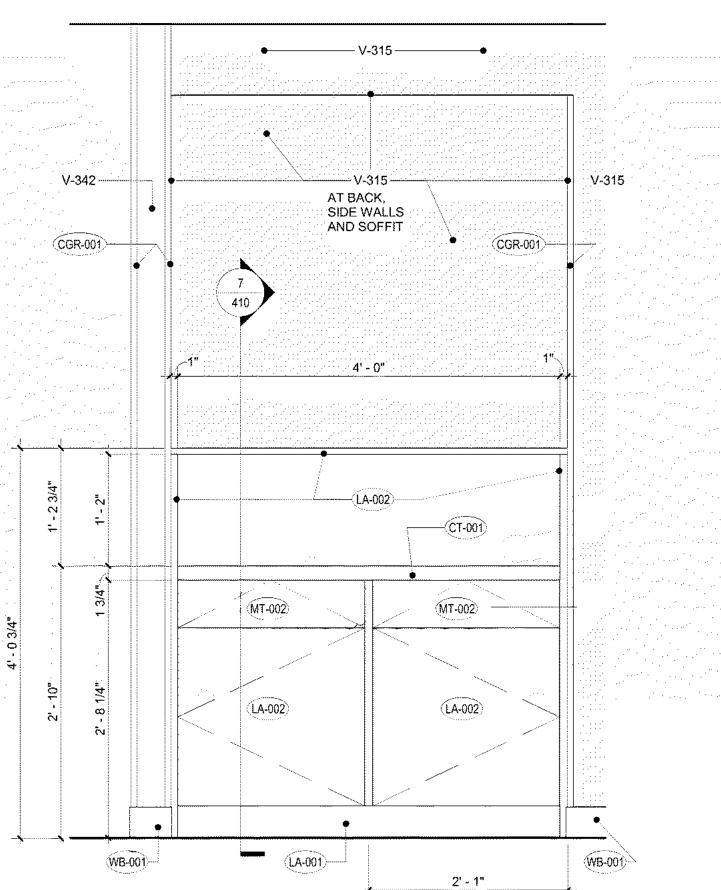
FOOD PREP ELEVATION

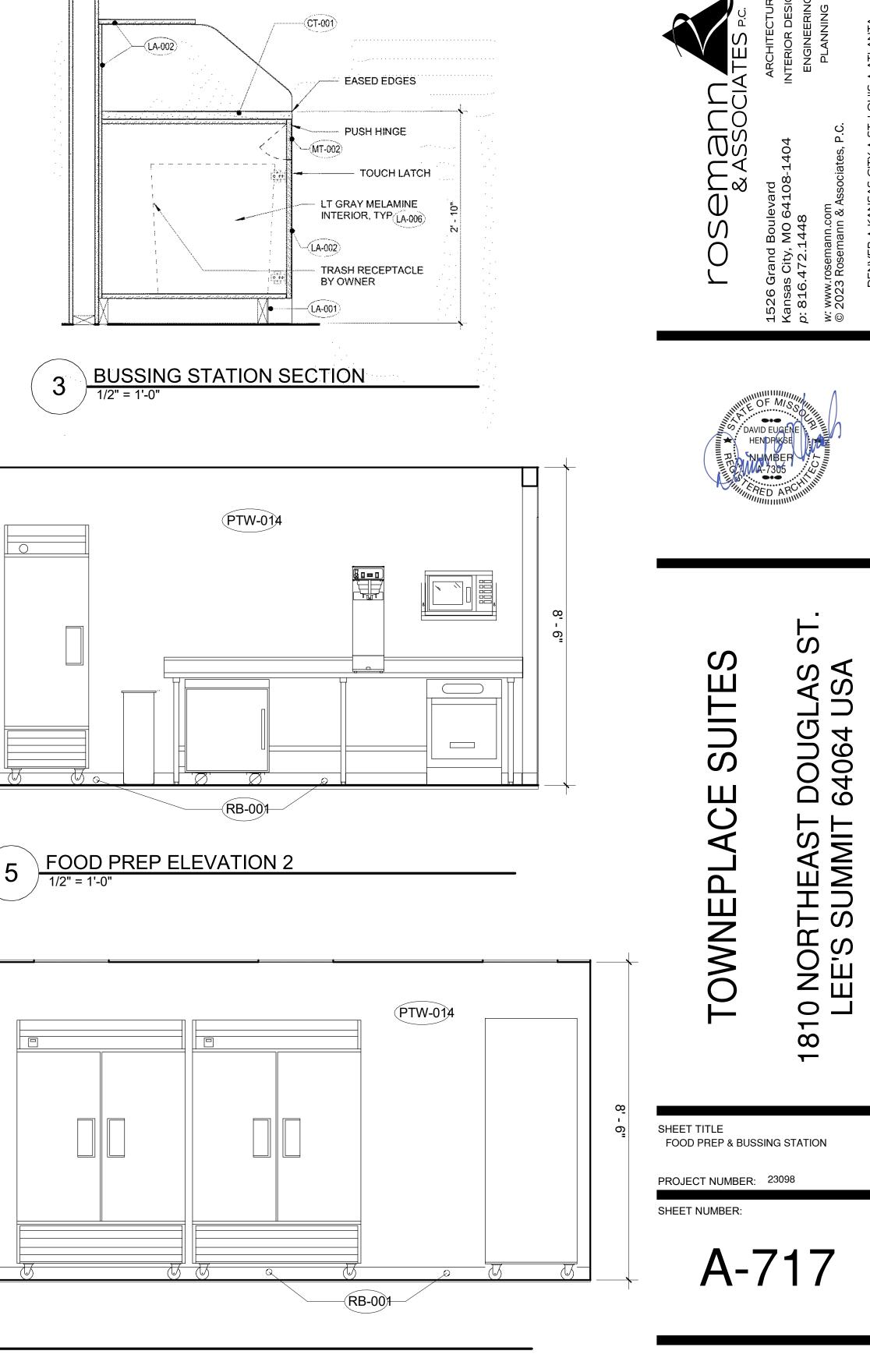


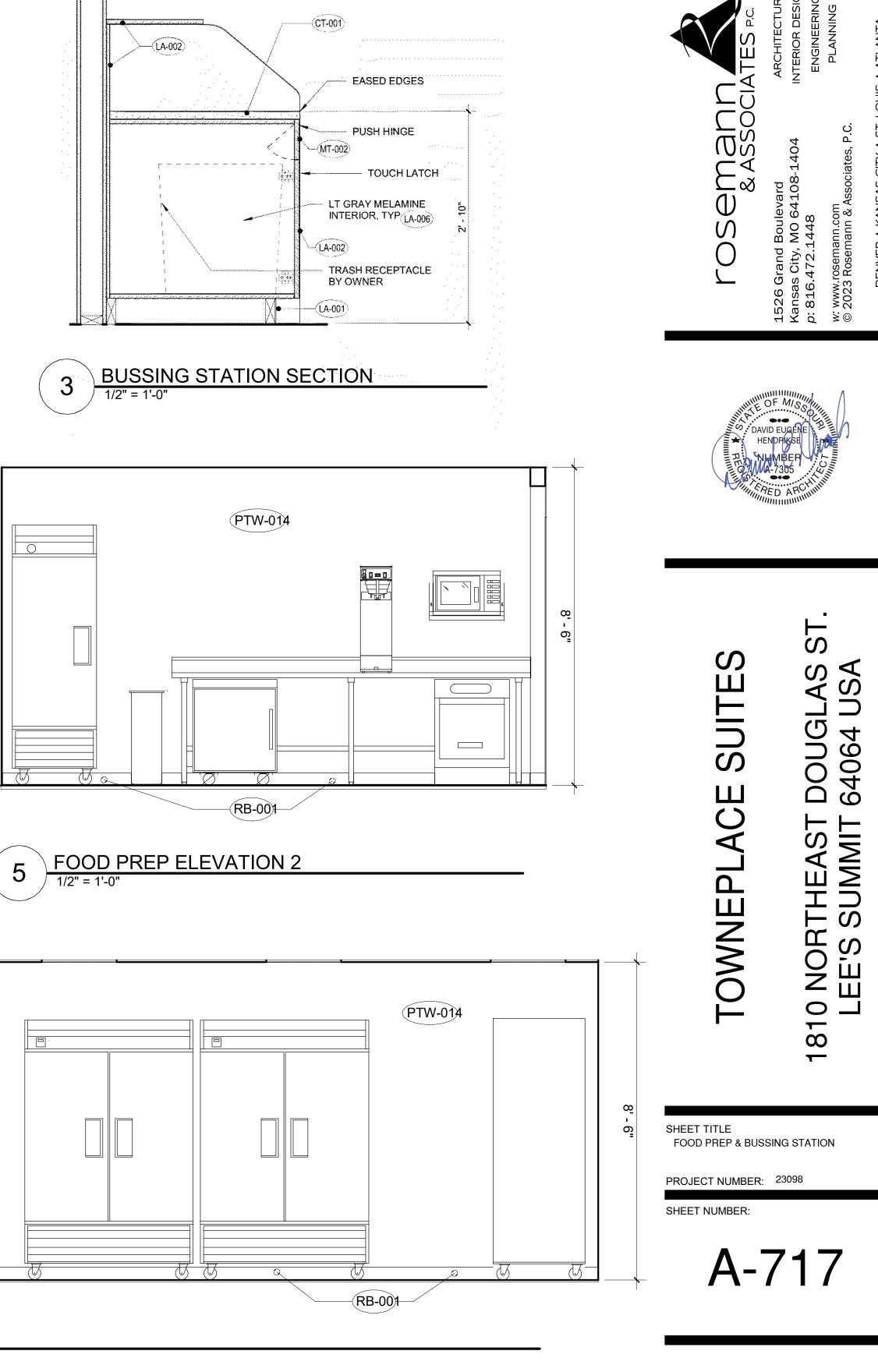
4



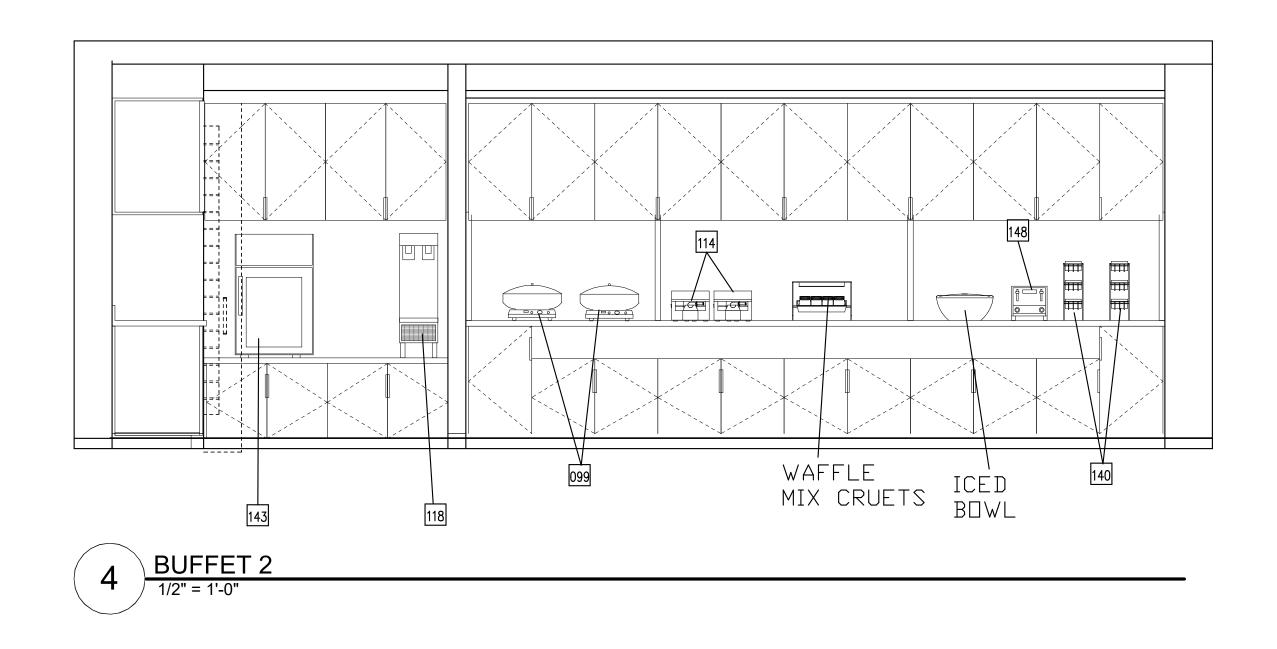


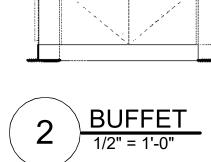


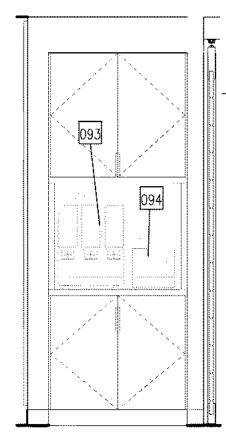


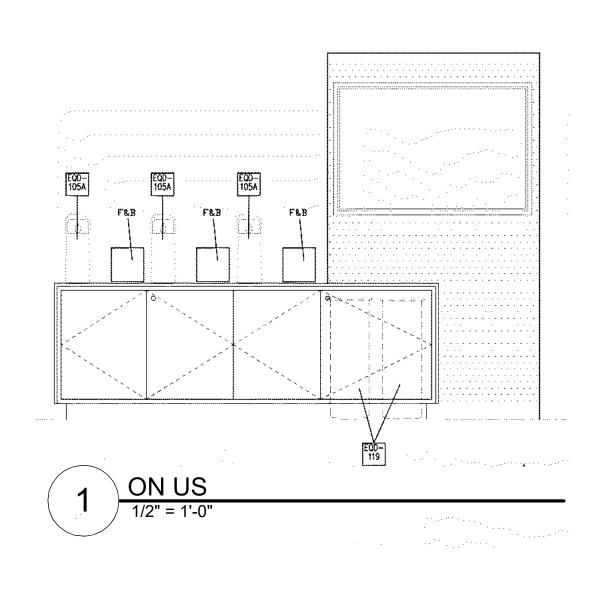


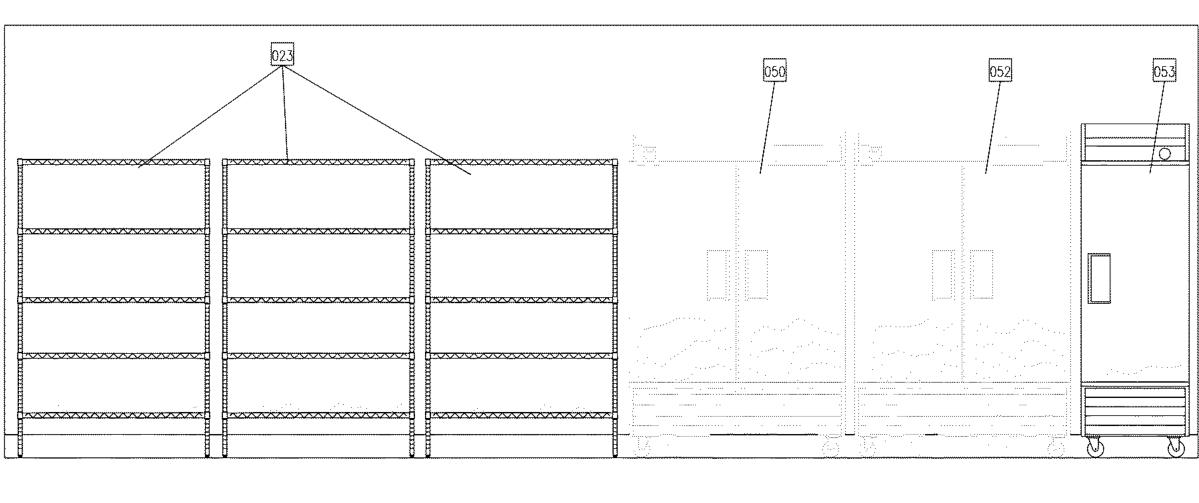
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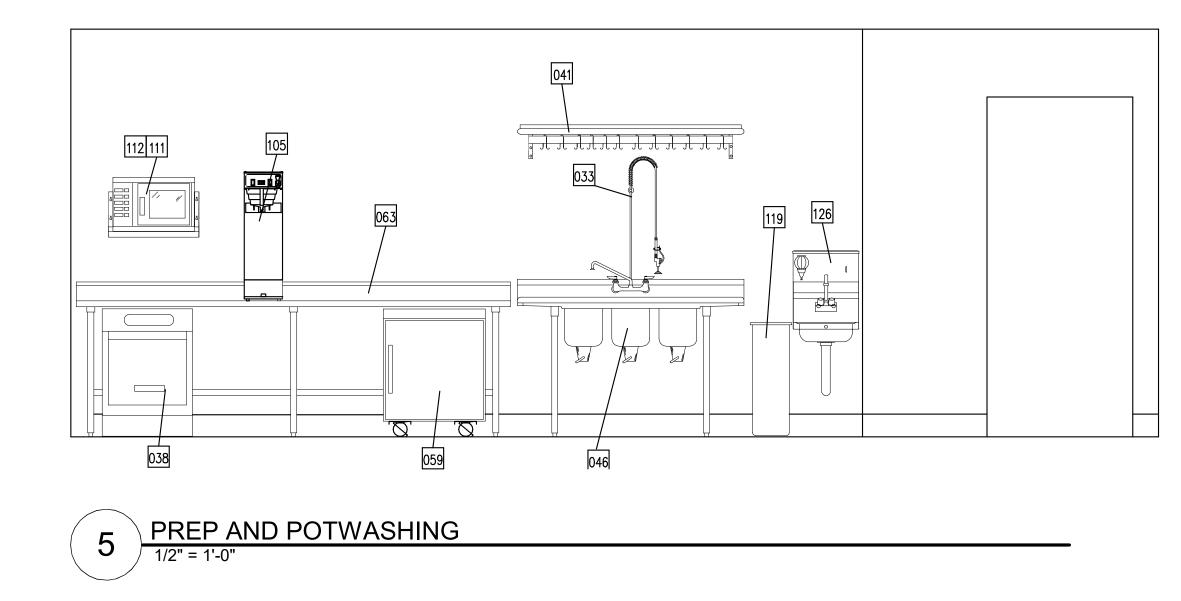




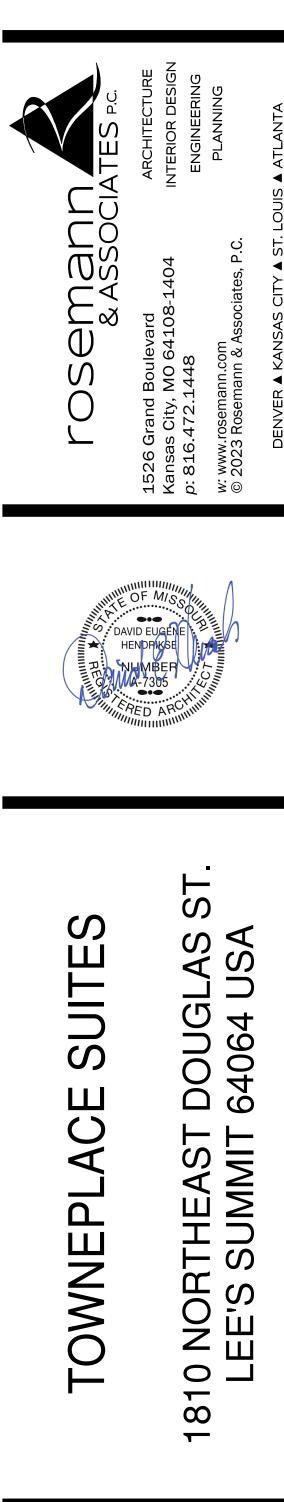






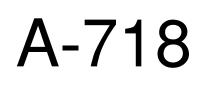


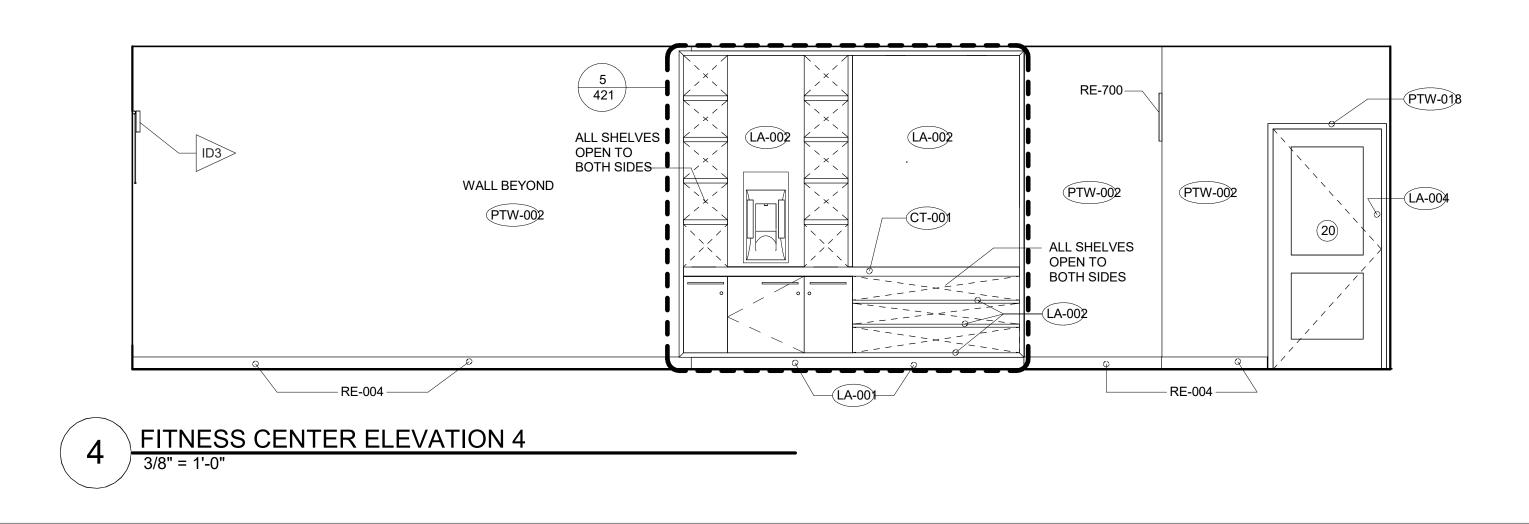
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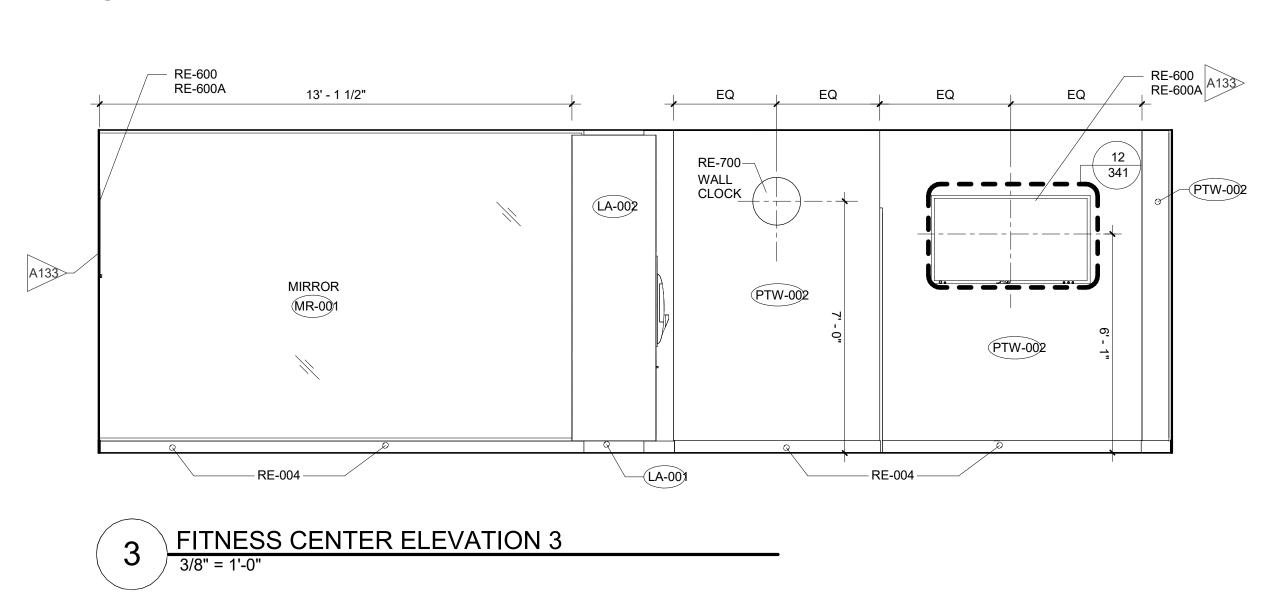


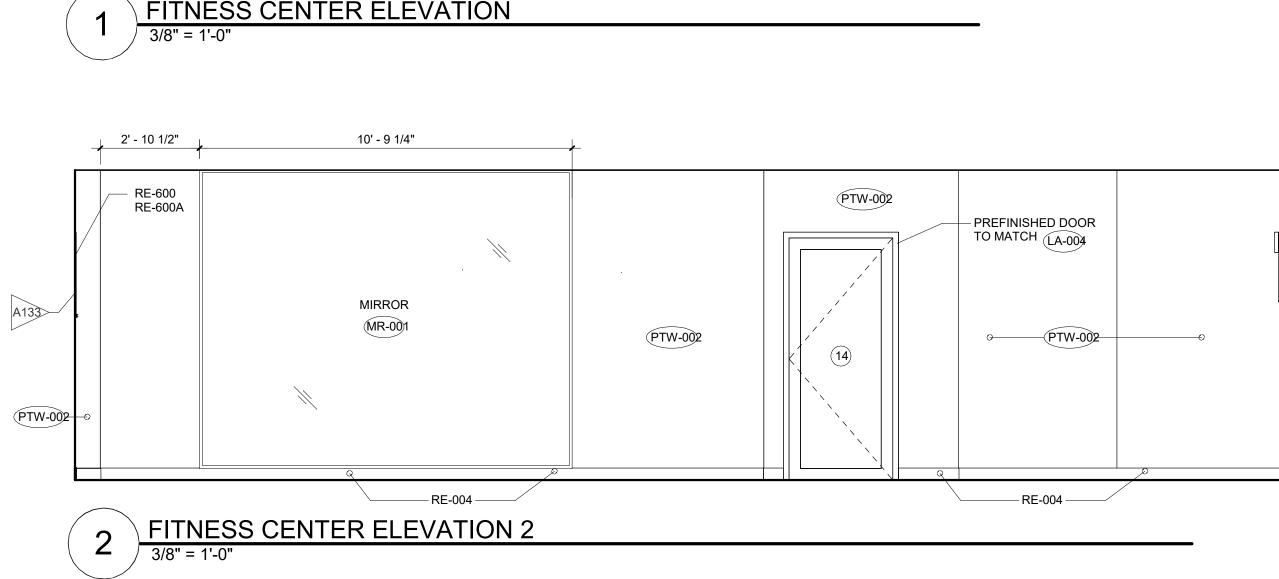


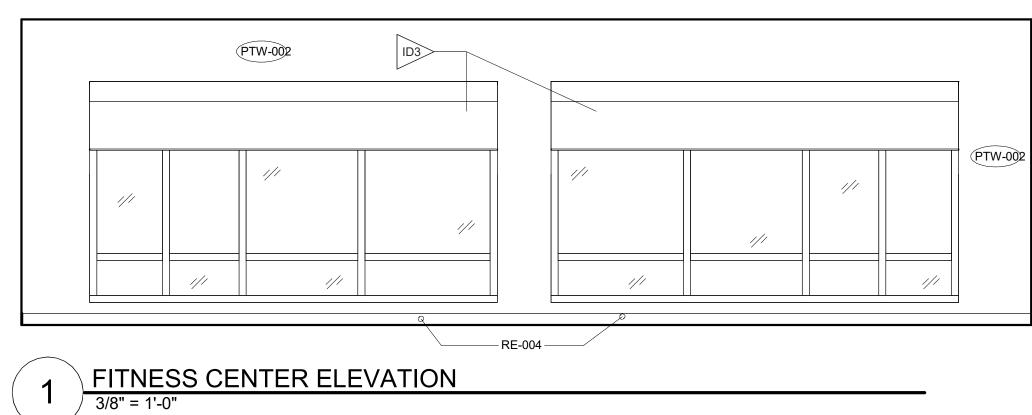
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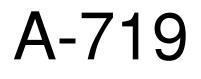
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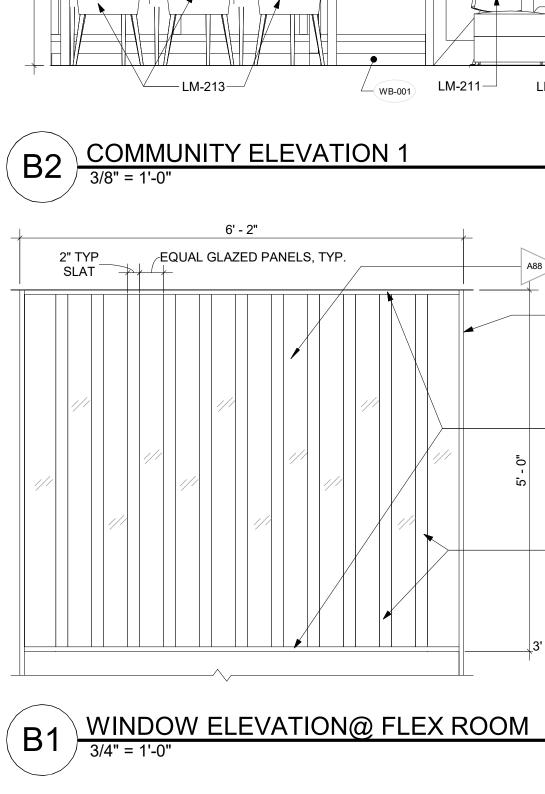


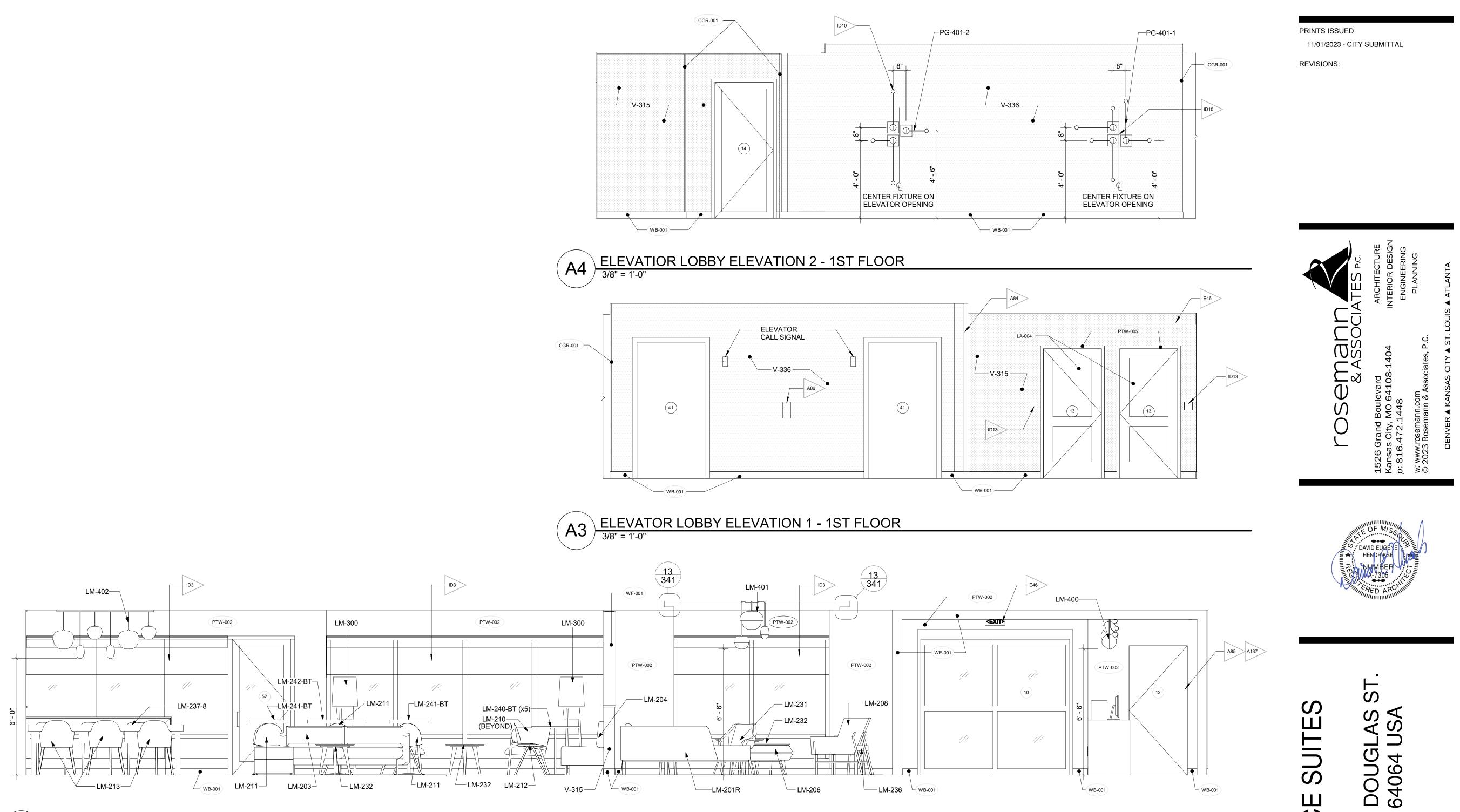
SHEET TITLE	

FITNESS CENTER

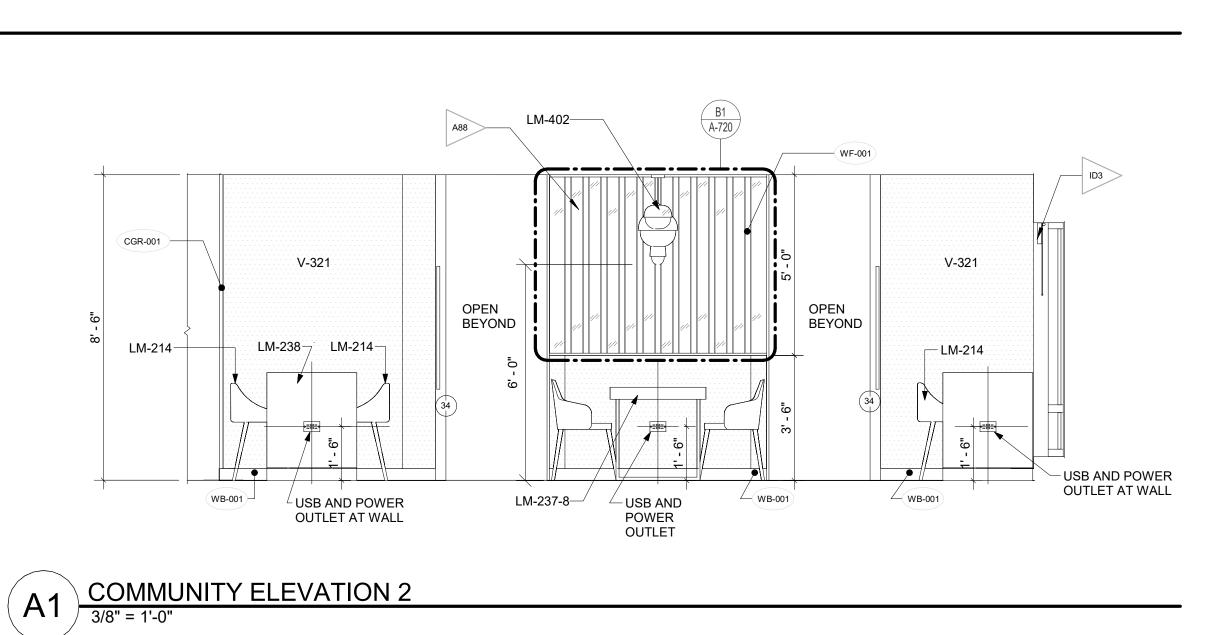
PROJECT NUMBER: 23098



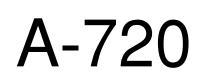


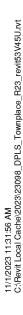


	488
	1"x4" SOLID WD TRIM @ DOOR JAMBS, TYP BOTH DOORS. FINISH TO MATCH ADJACENT WOOD TRIM AT WINDOW
5' - 0"	
	2"x4" MULLION TO BE SCHEDULED WOOD VENEER FINISH ON SUBSTRATE, SEE WALL ELEVATION
,	3' - 6" AFF

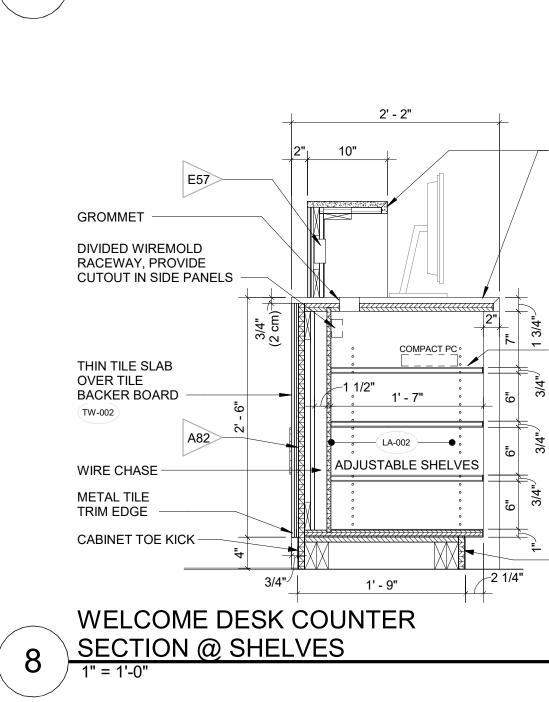


- SHEET TITLE
- LOBBY AREAS INTERIOR ELEVATIONS
- PROJECT NUMBER: 23098





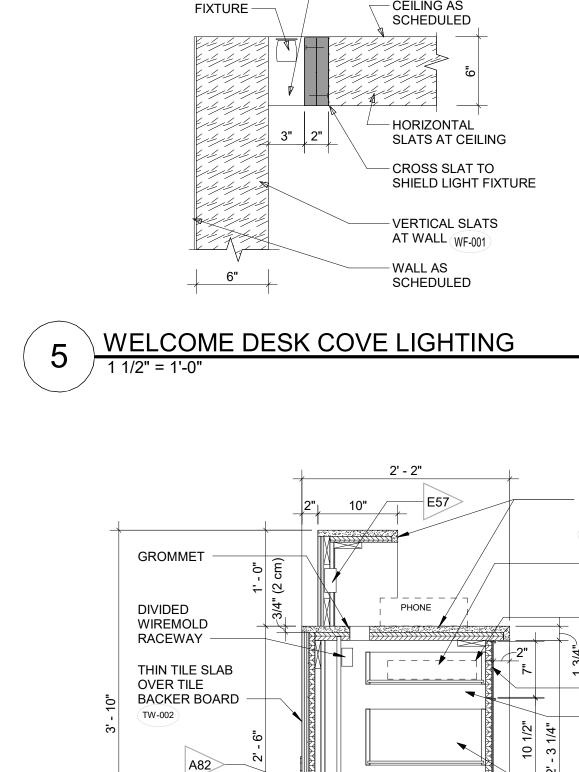




3/4"/

COUNTER SECTION @ DRAWERS

WELCOME DESK UPPER



WIRE CHASE

METAL TILE

TRIM EDGE

CABINET

TOE KICK

LA-001

1" = 1'-0"

9

ALJ-054 COVE LIGHT

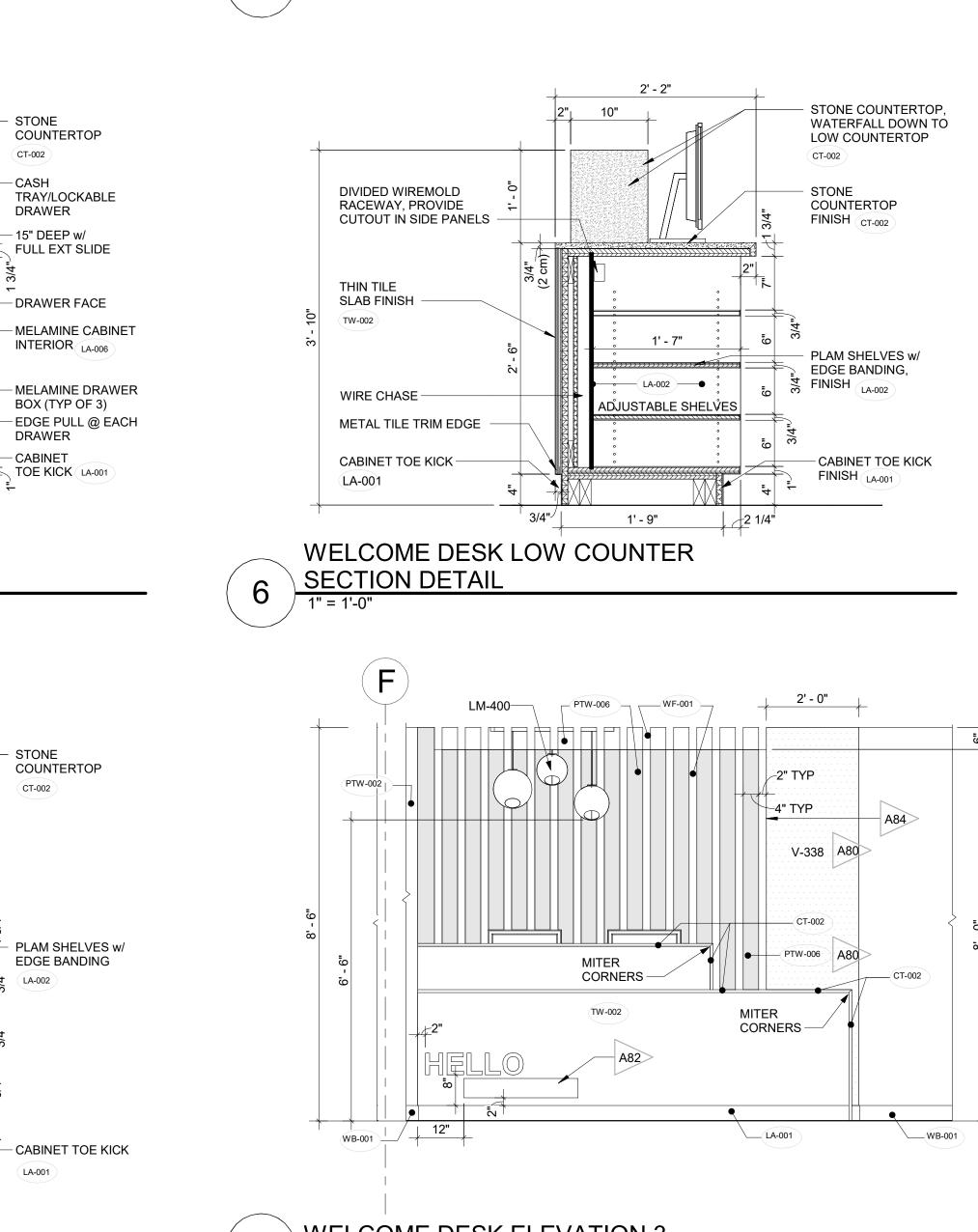
- 3" OPENING FOR LIGHT

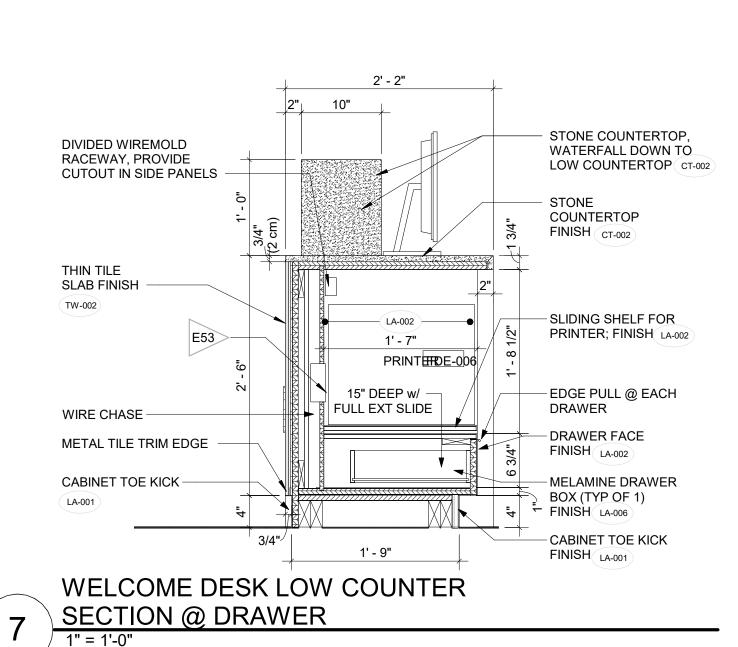
- CEILING AS

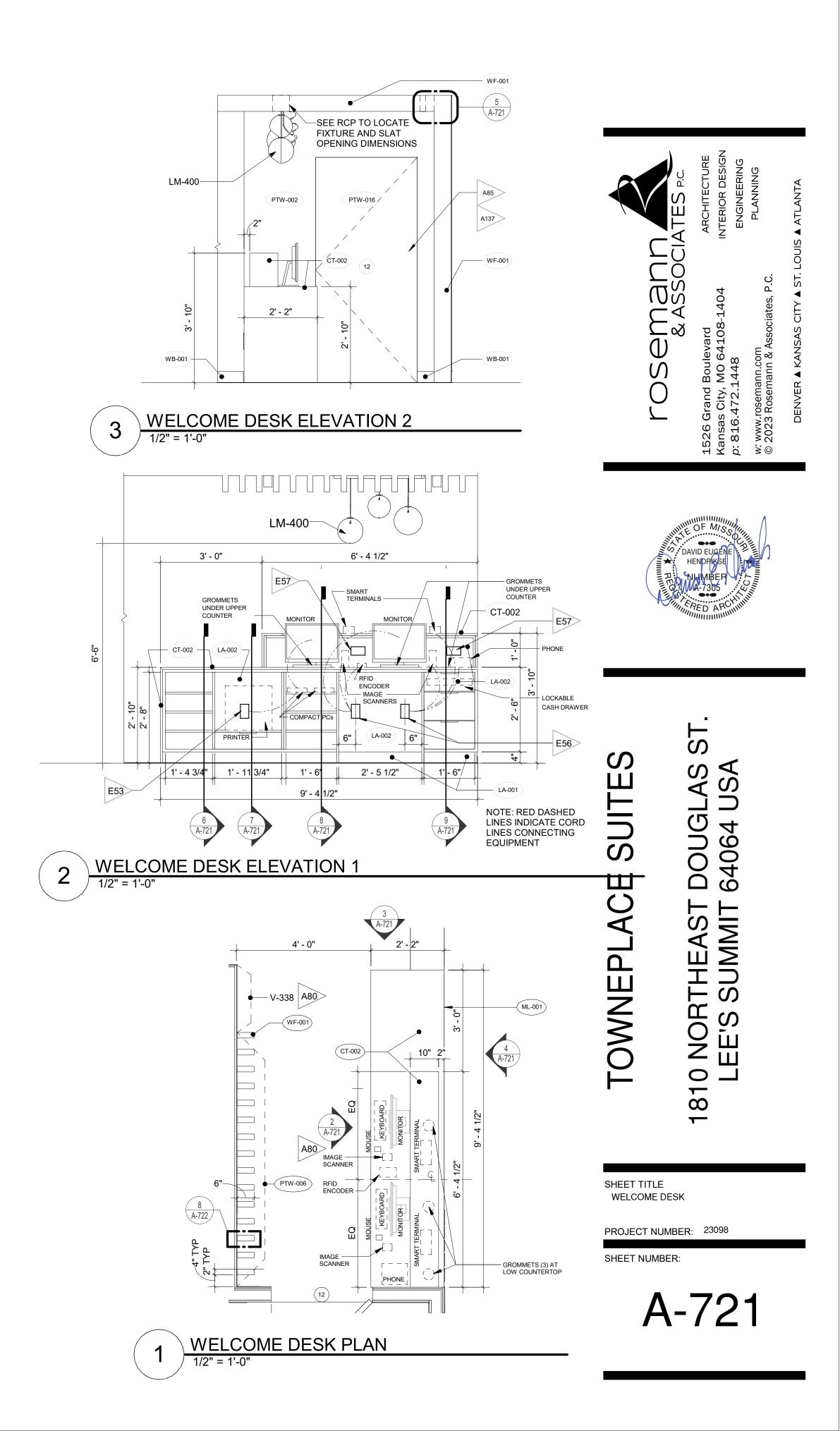
-2 1/4"

1' - 9"

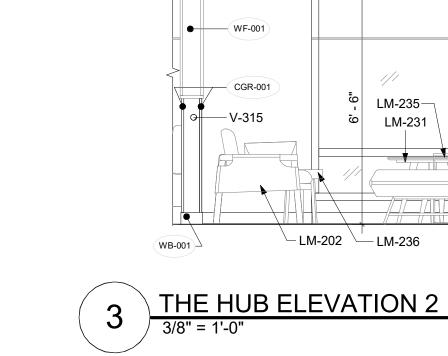
WELCOME DESK ELEVATION 3 4 1/2" = 1'-0'

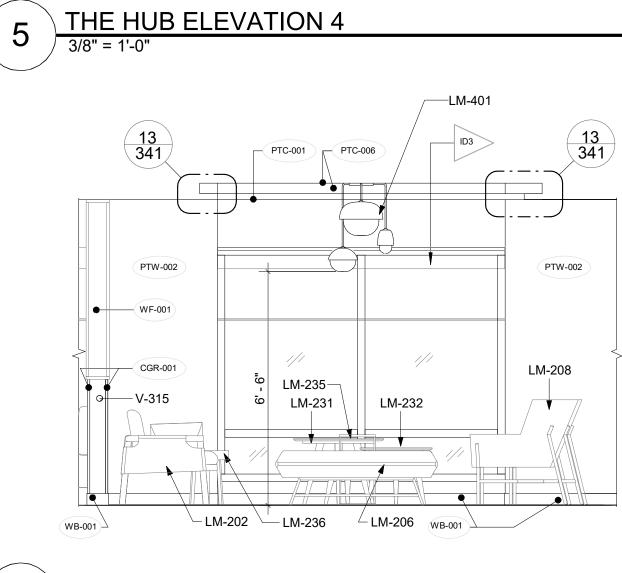


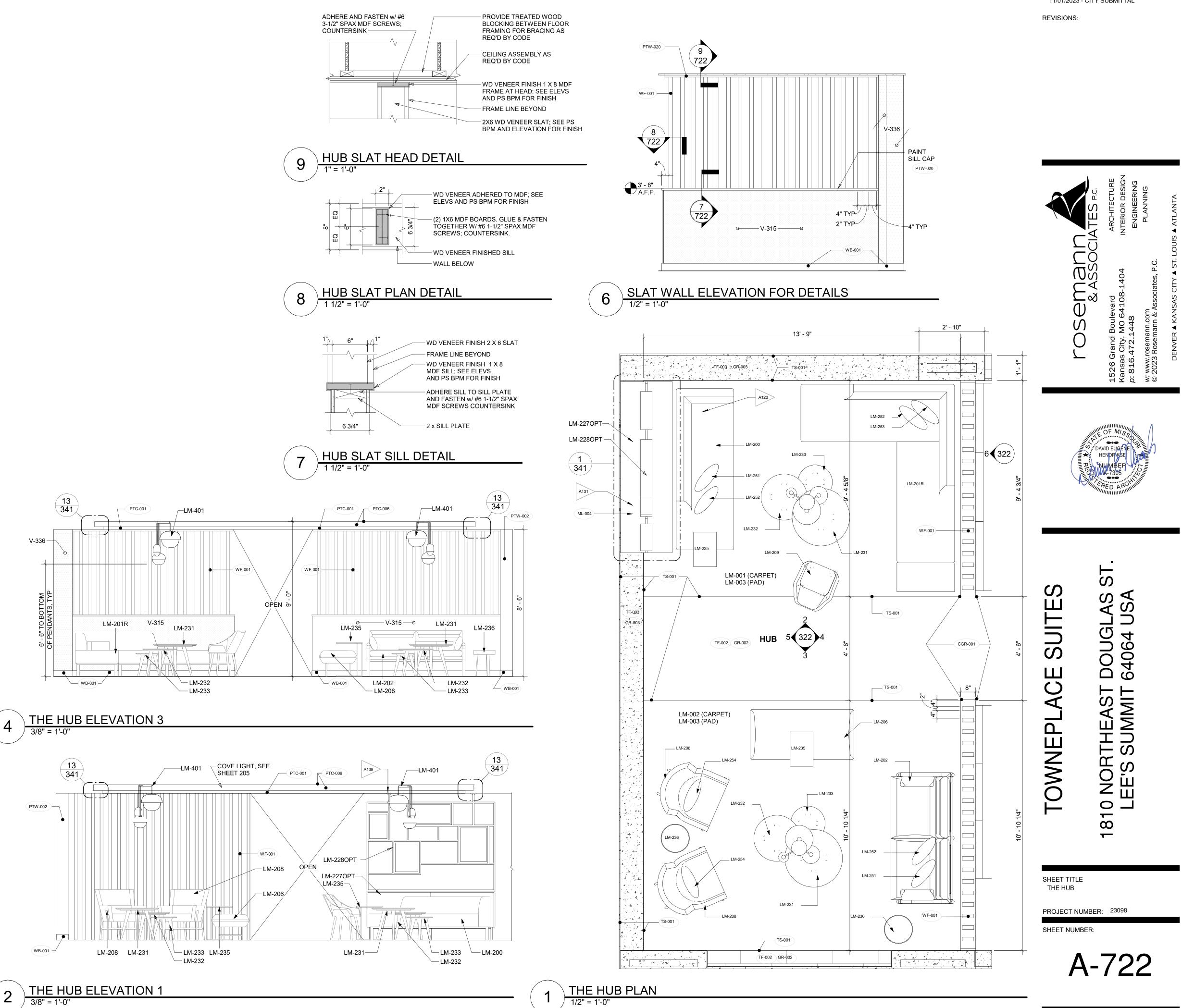


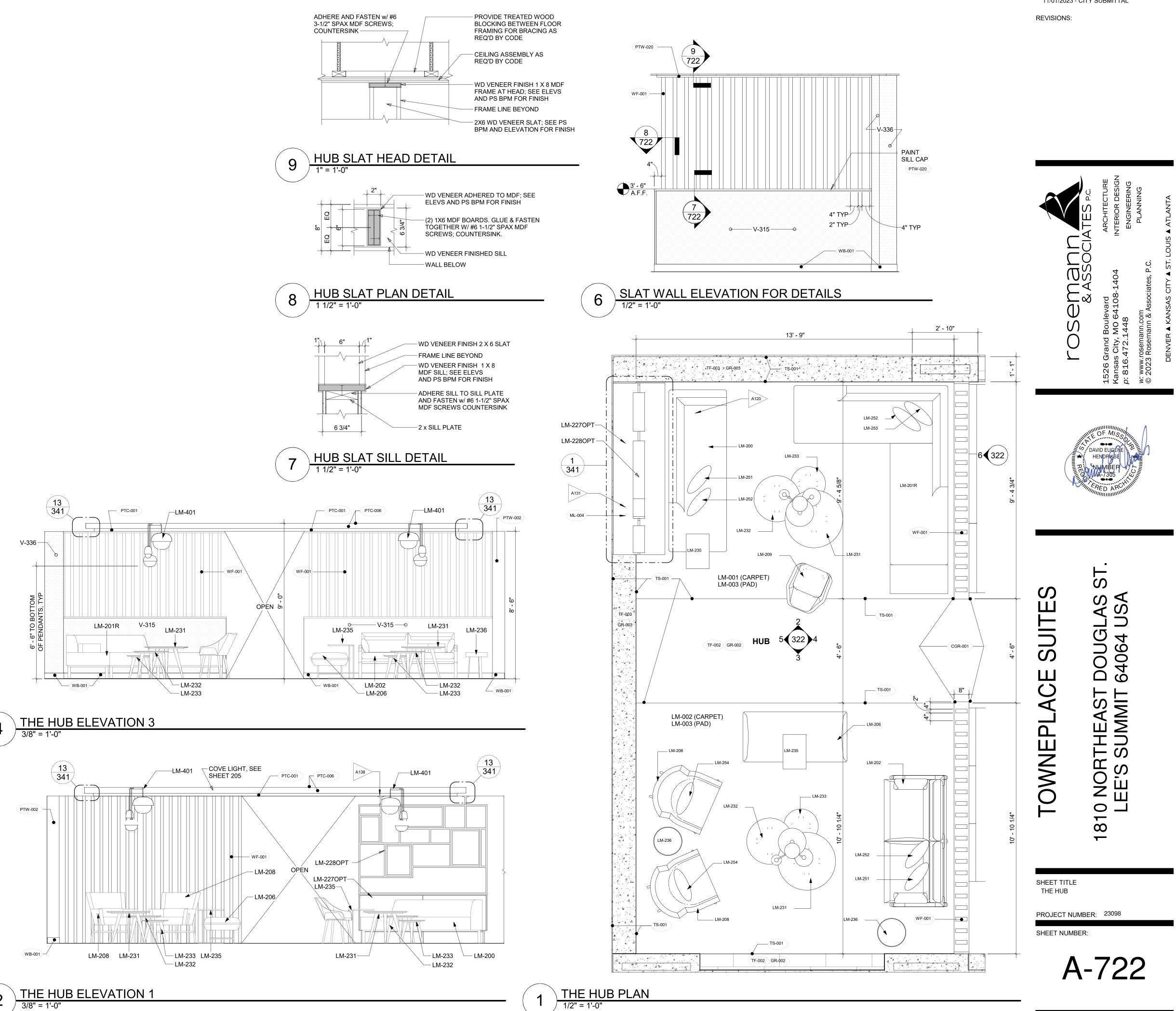


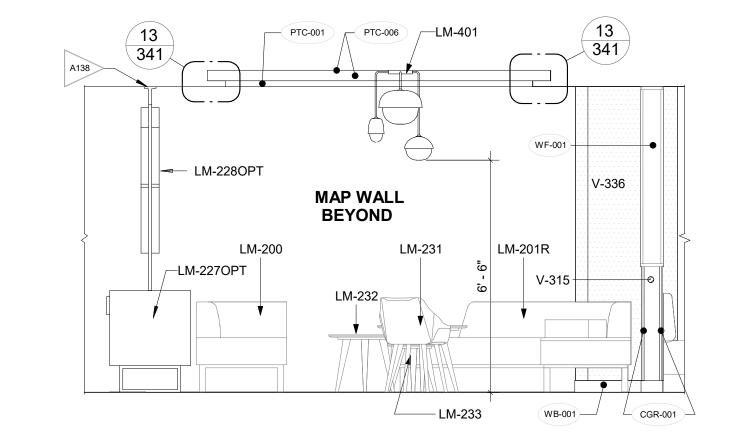
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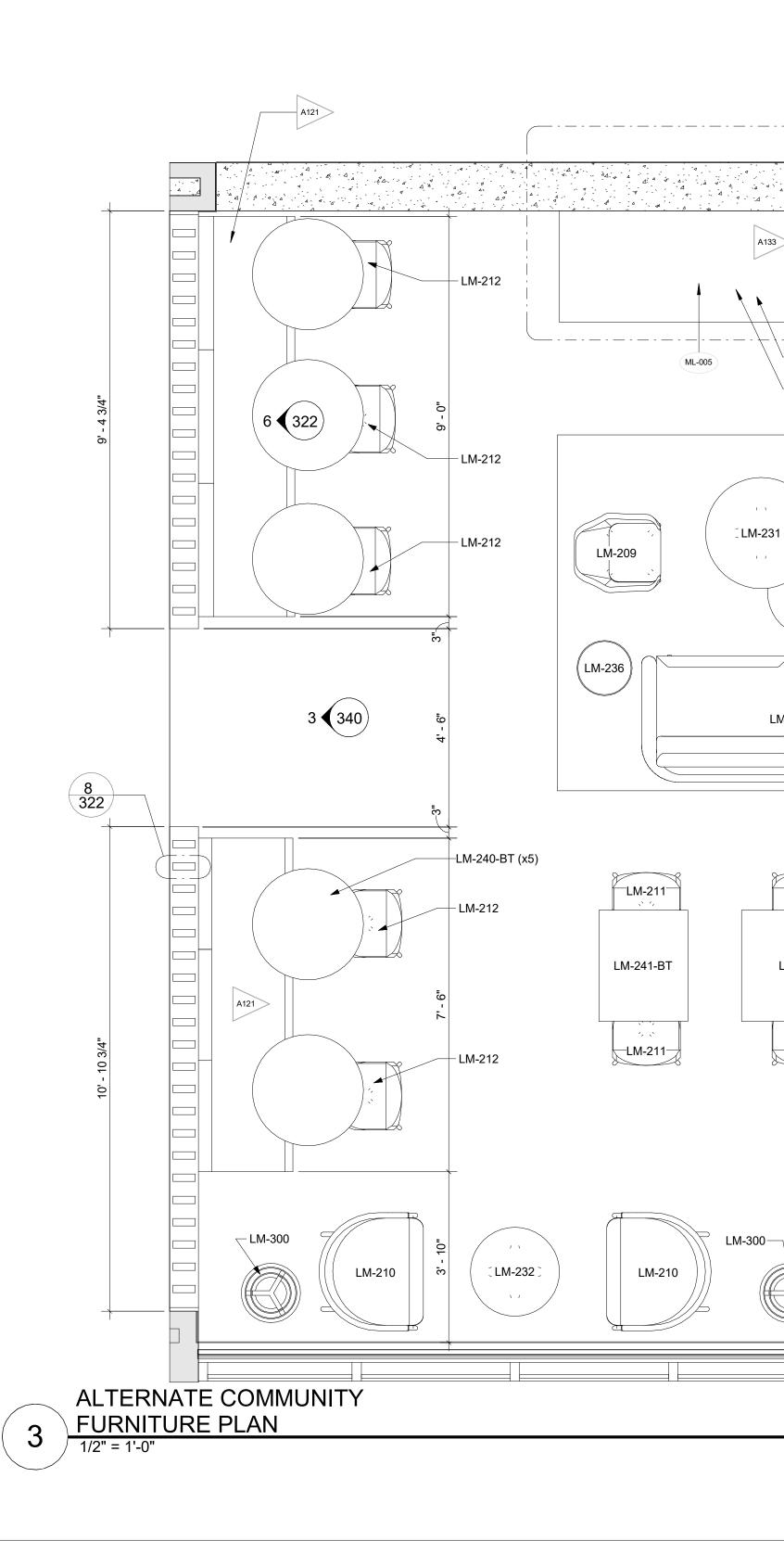


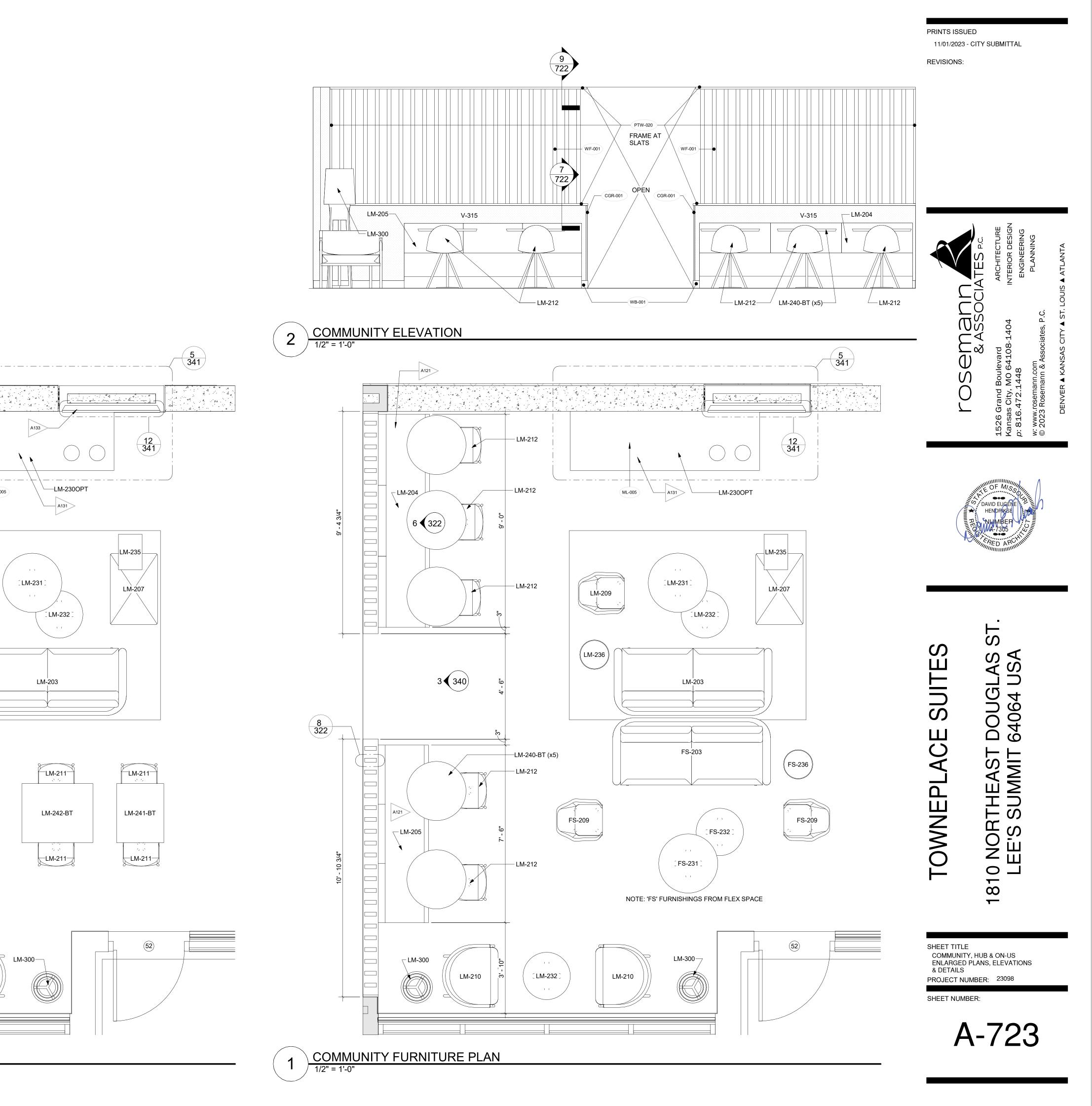


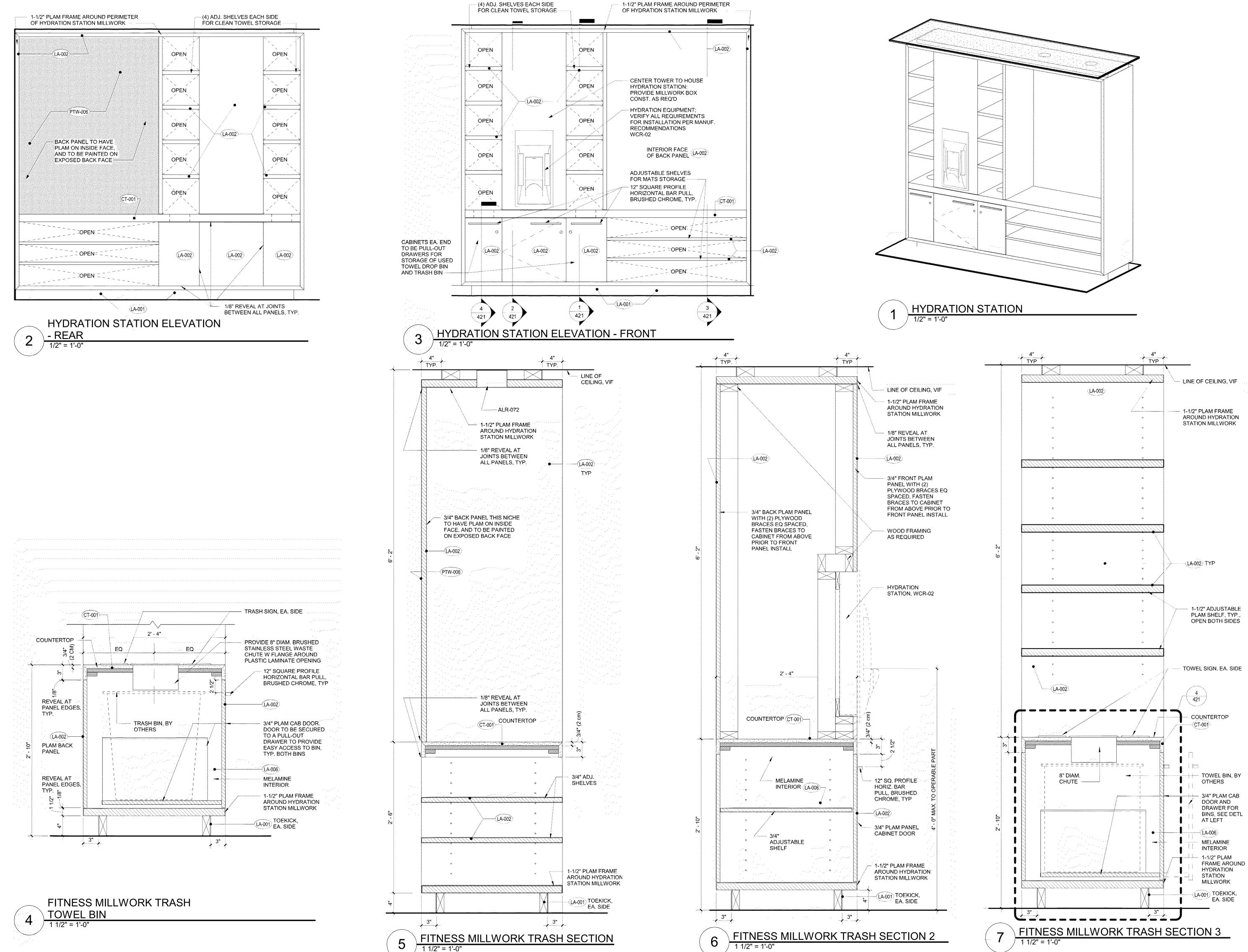




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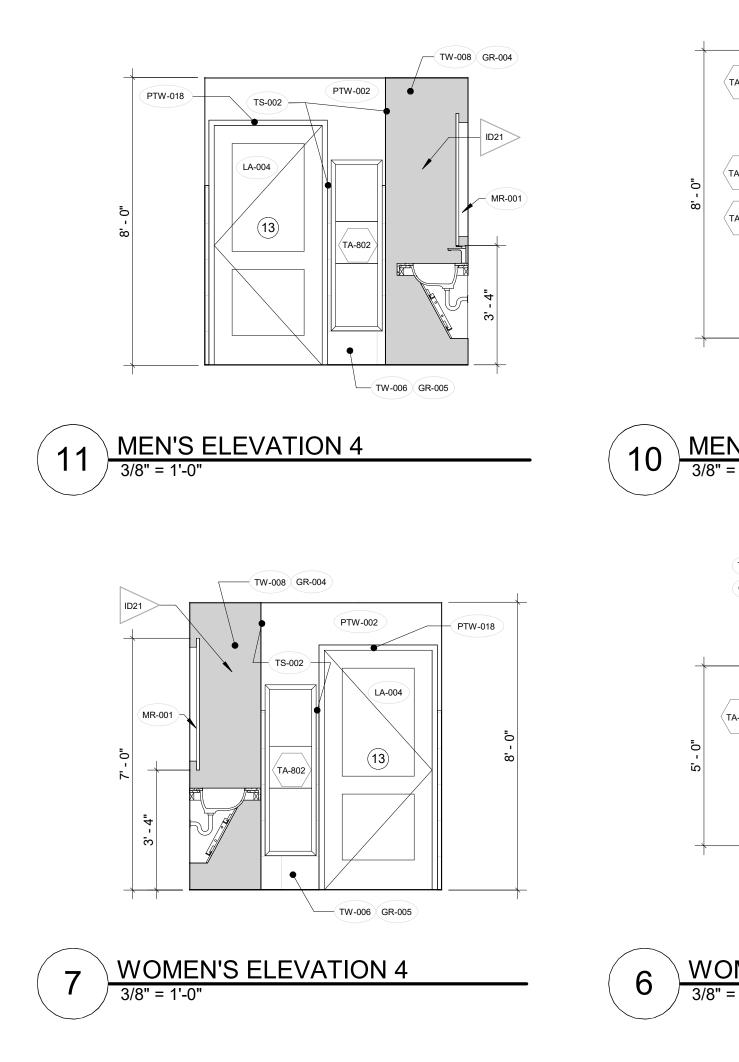
81

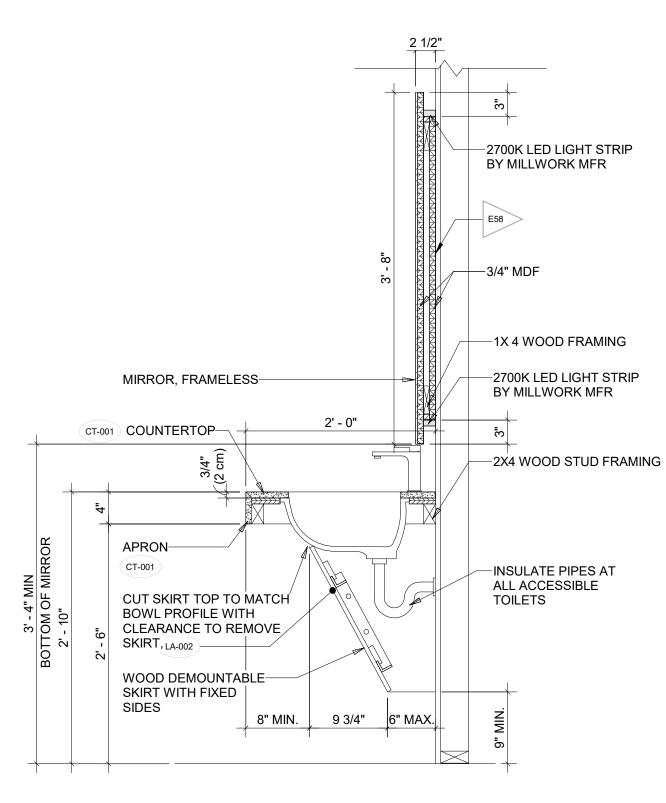
С Ш SUIT Ц С 1 **OWNEPL**

SHEET TITLE FITNESS CENTER & HYDRATION STATION

PROJECT NUMBER: 23098

A-724

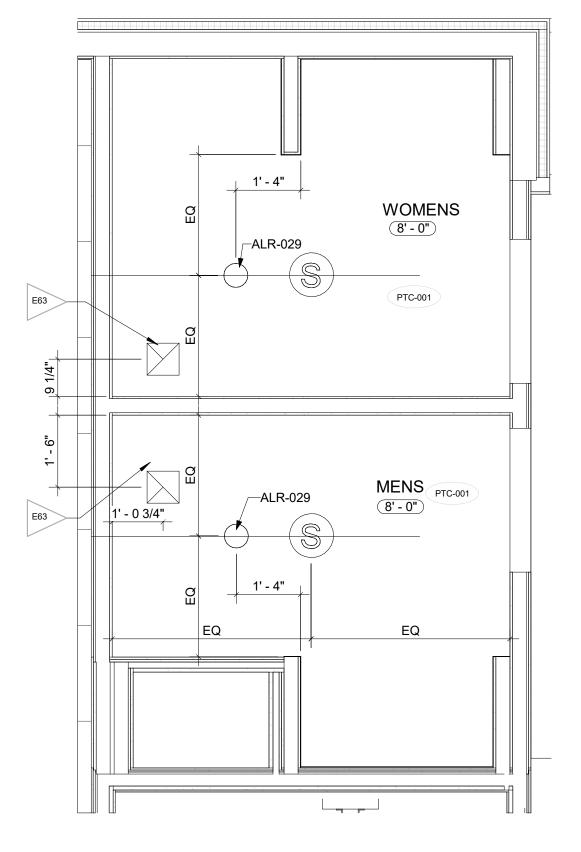




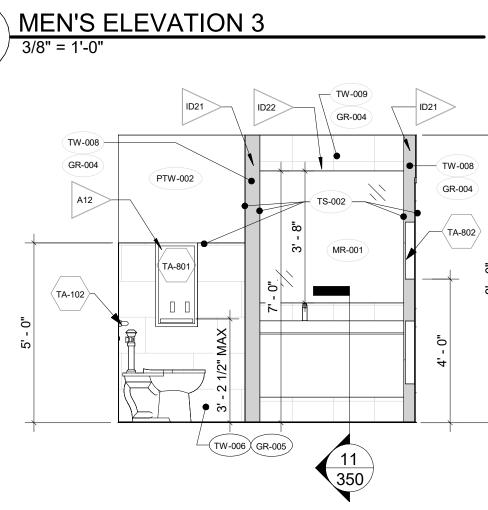


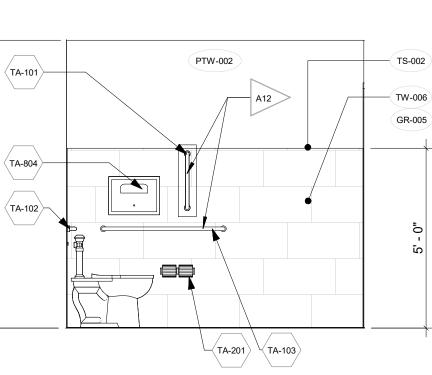
PUBLIC RESTROOM LAVATORY SECTION 1" = 1'-0"

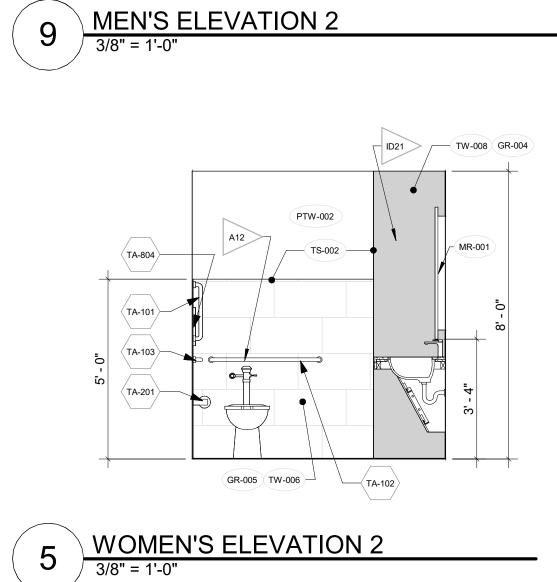


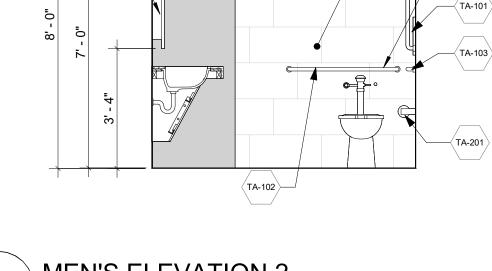


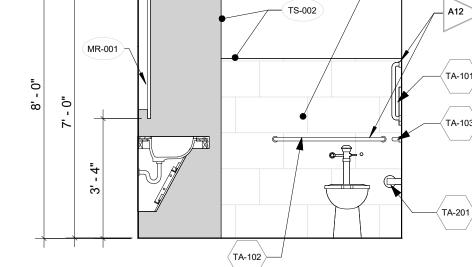










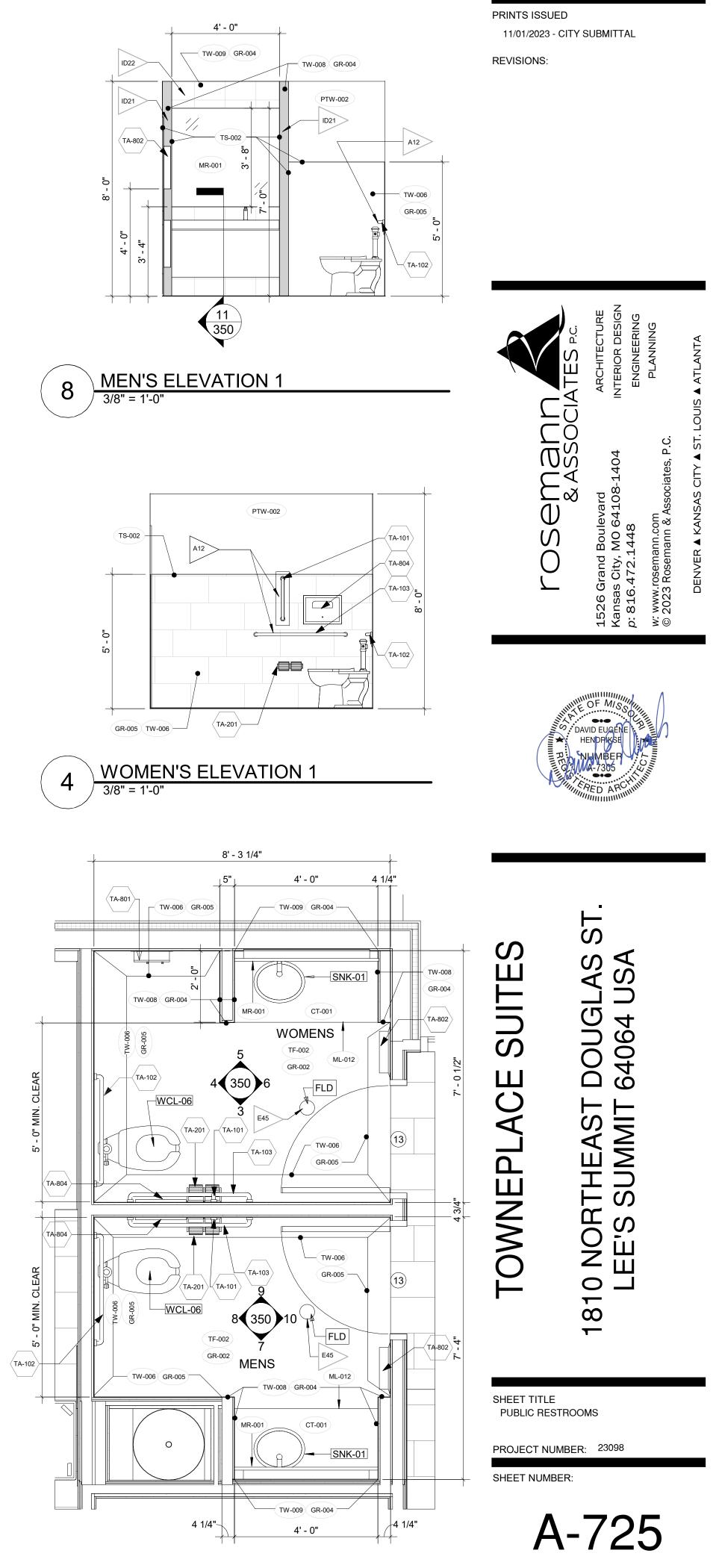


ID21

TW-008 GR-004

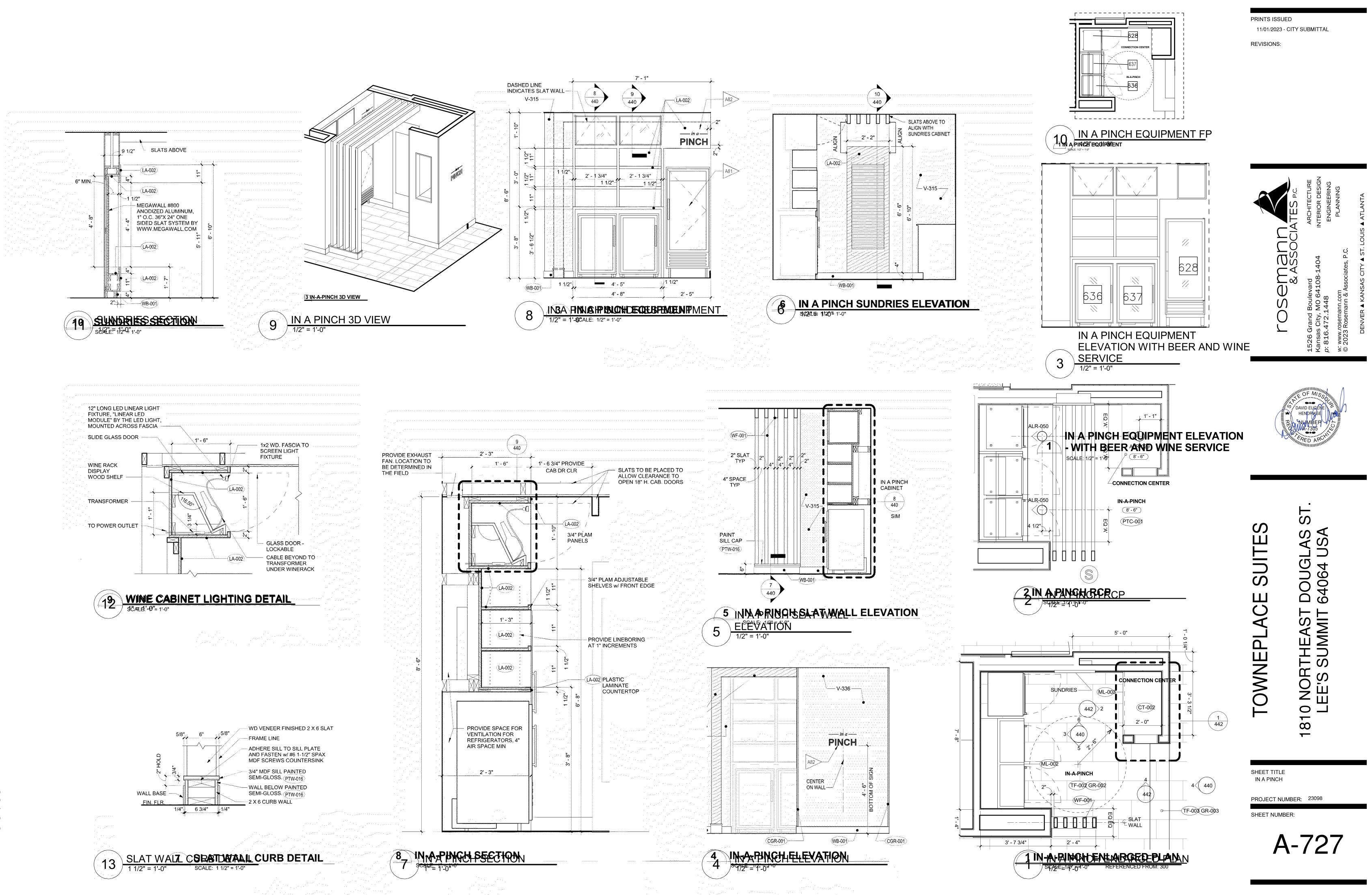
PTW-002

TW-006 GR-005

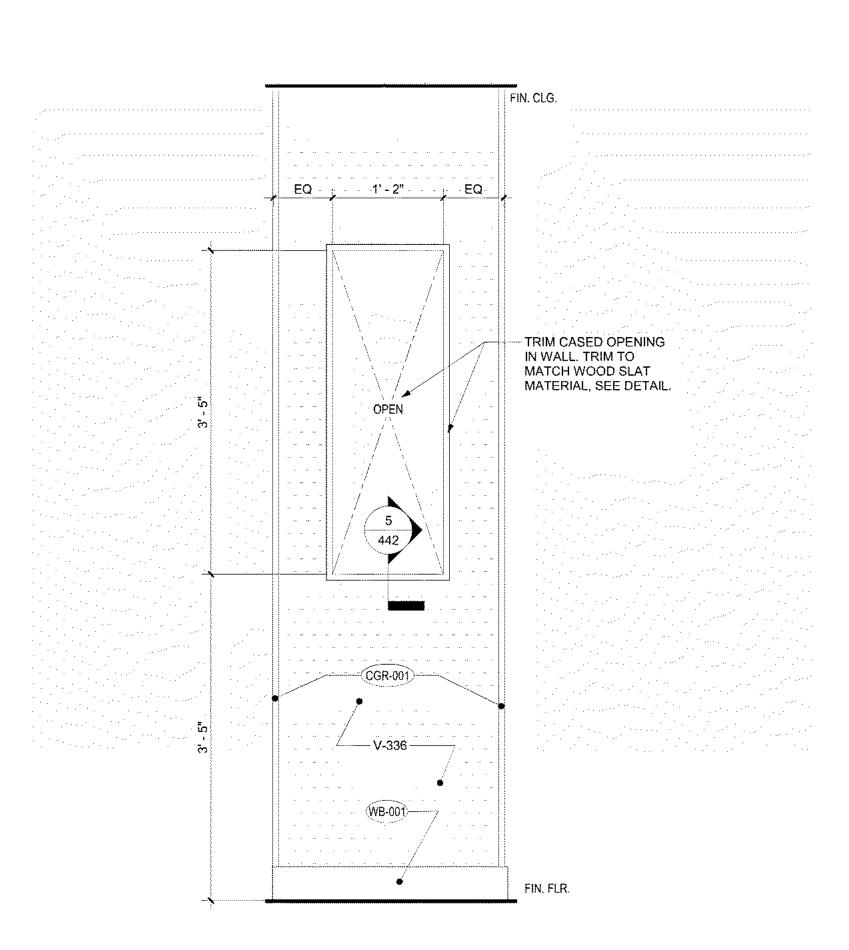


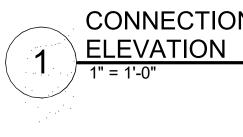
PUBLIC SPACE TOILETS PLAN) 1/2" = 1'-0"



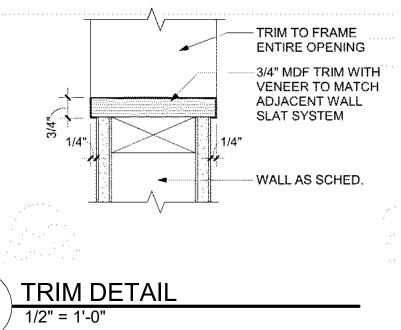


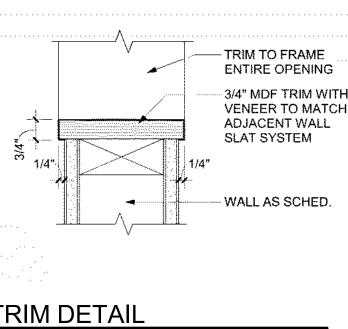


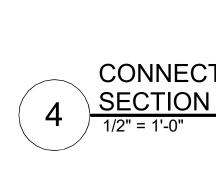


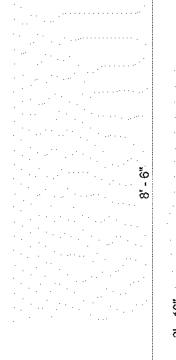


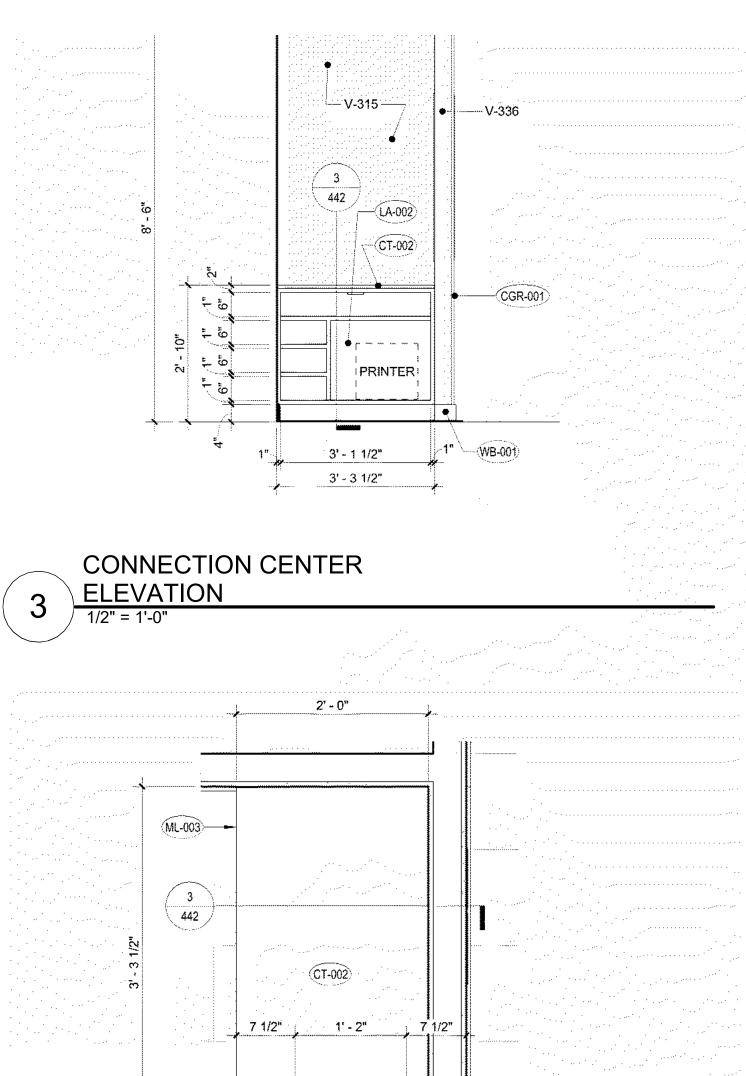
CONNECTION CENTER WALL

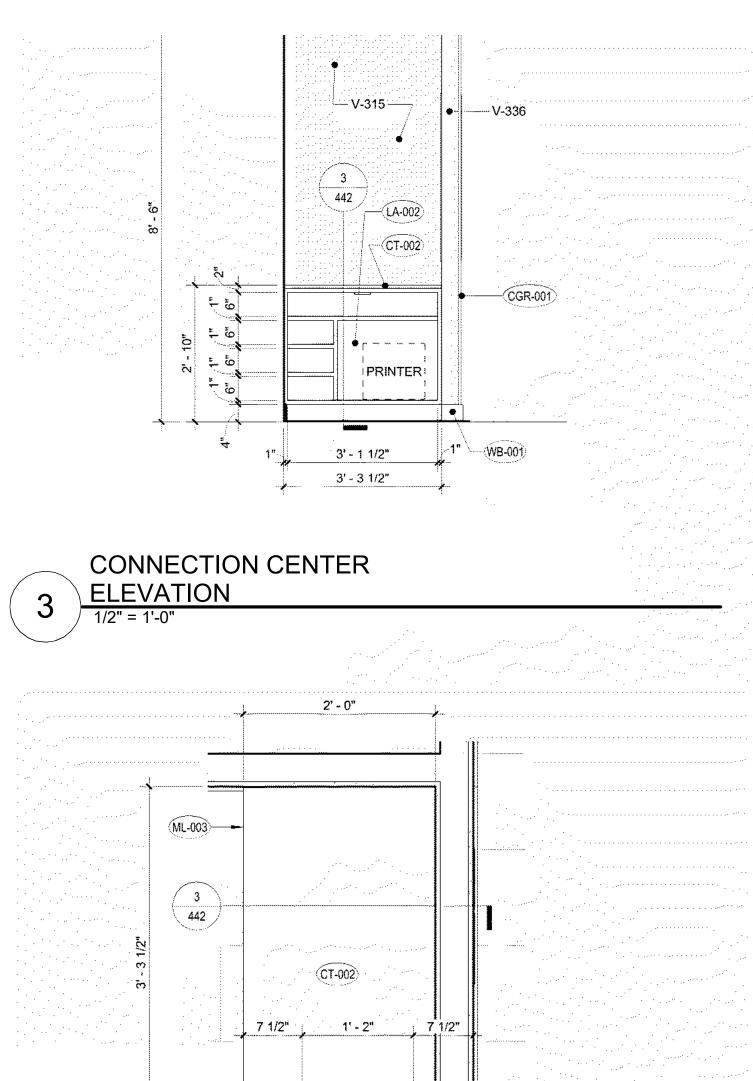












2' - 4 3/4"

442

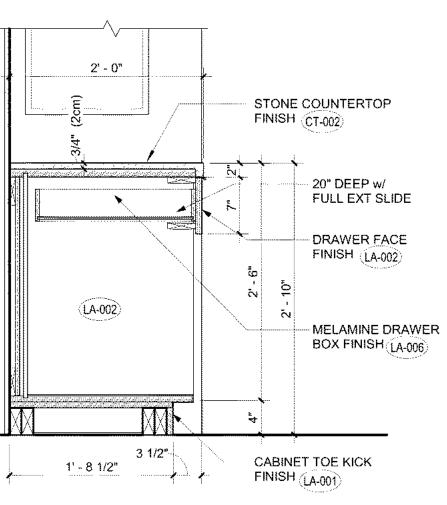


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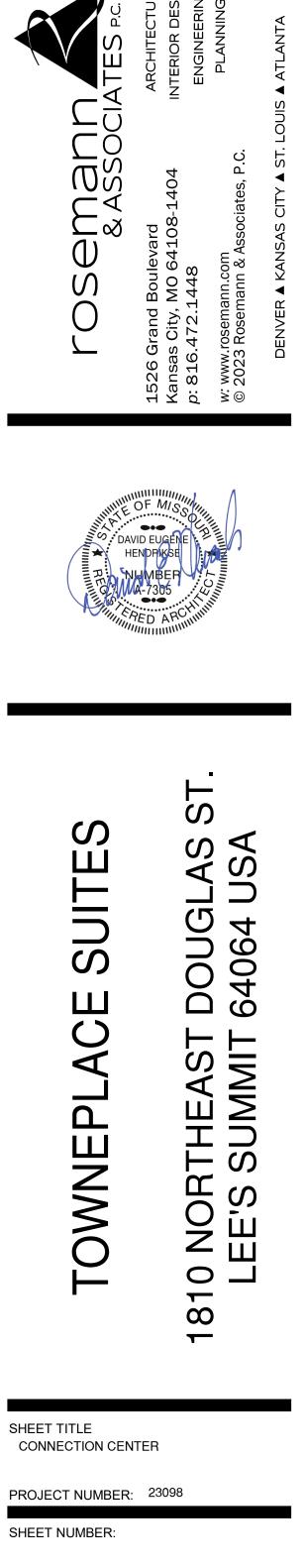
CGR-001

PRINTS ISSUED 11/01/2023 - CITY SUBMITTAL

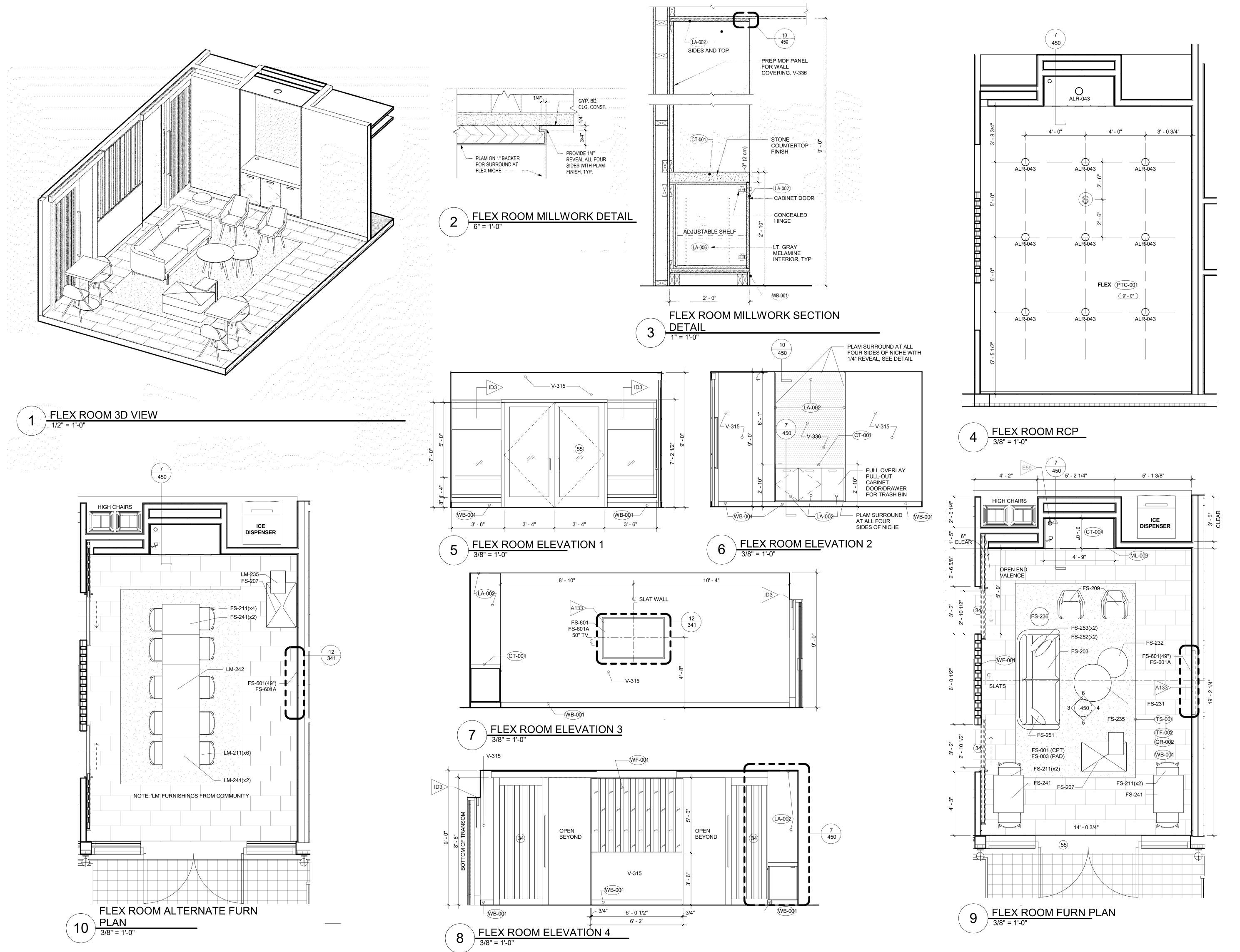




CONNECTION CENTER MILLWORK



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OSemanr & ASSOC nevard 64108 Bou MO City, 472. David Euge ST ACE SUITES 1810 NORTHEAST DOUGLAS LEE'S SUMMIT 64064 USA TOWNEPL

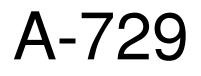
PRINTS ISSUED

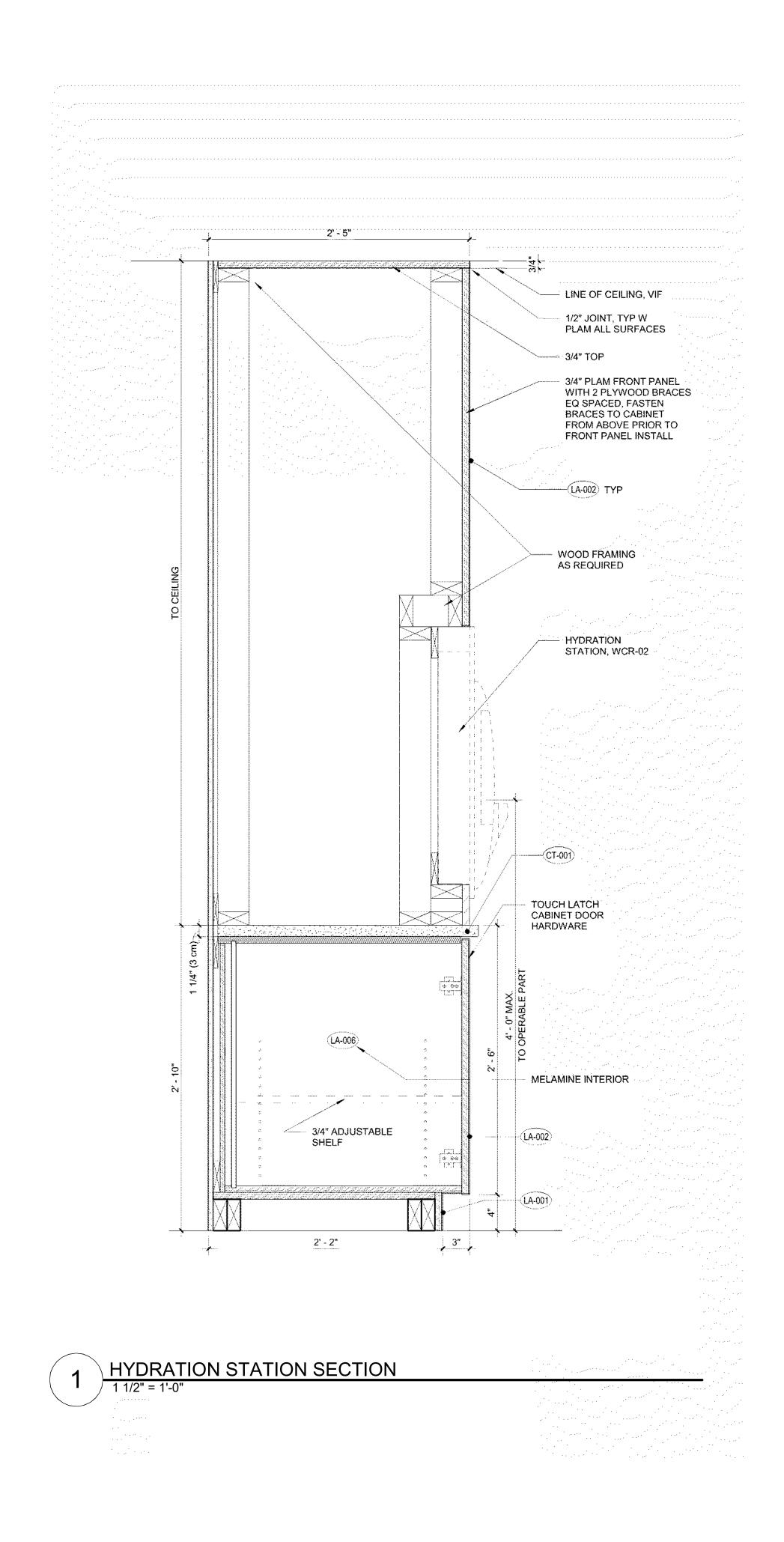
REVISIONS:

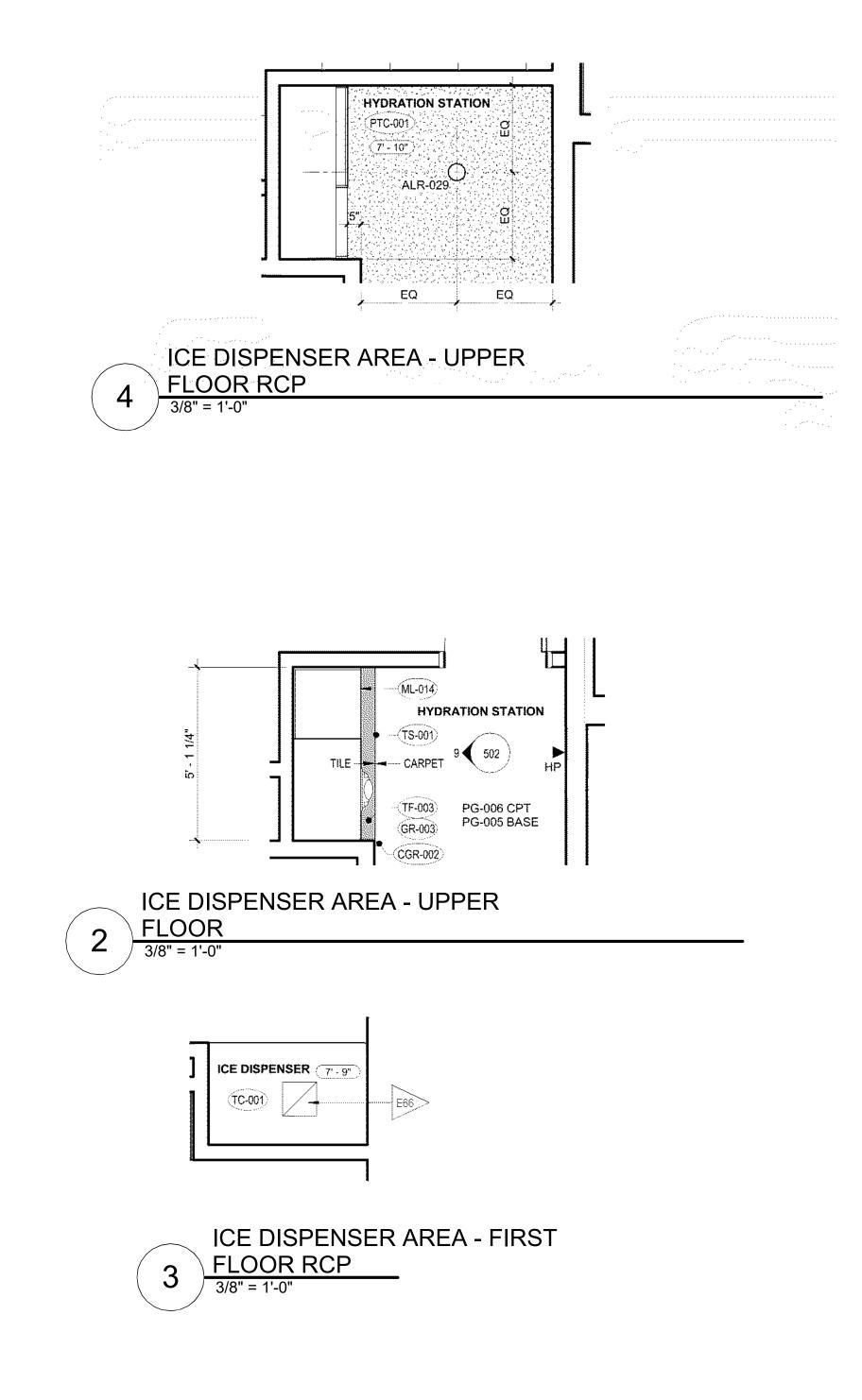
11/01/2023 - CITY SUBMITTAL

SHEET TITLE FLEX DETAILS

PROJECT NUMBER: 23098







PRINTS ISSUED 11/01/2023 - CITY SUBMITTAL **REVISIONS**:

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SHEET TITLE HYDRATION STATION/ ICE DISPENSER

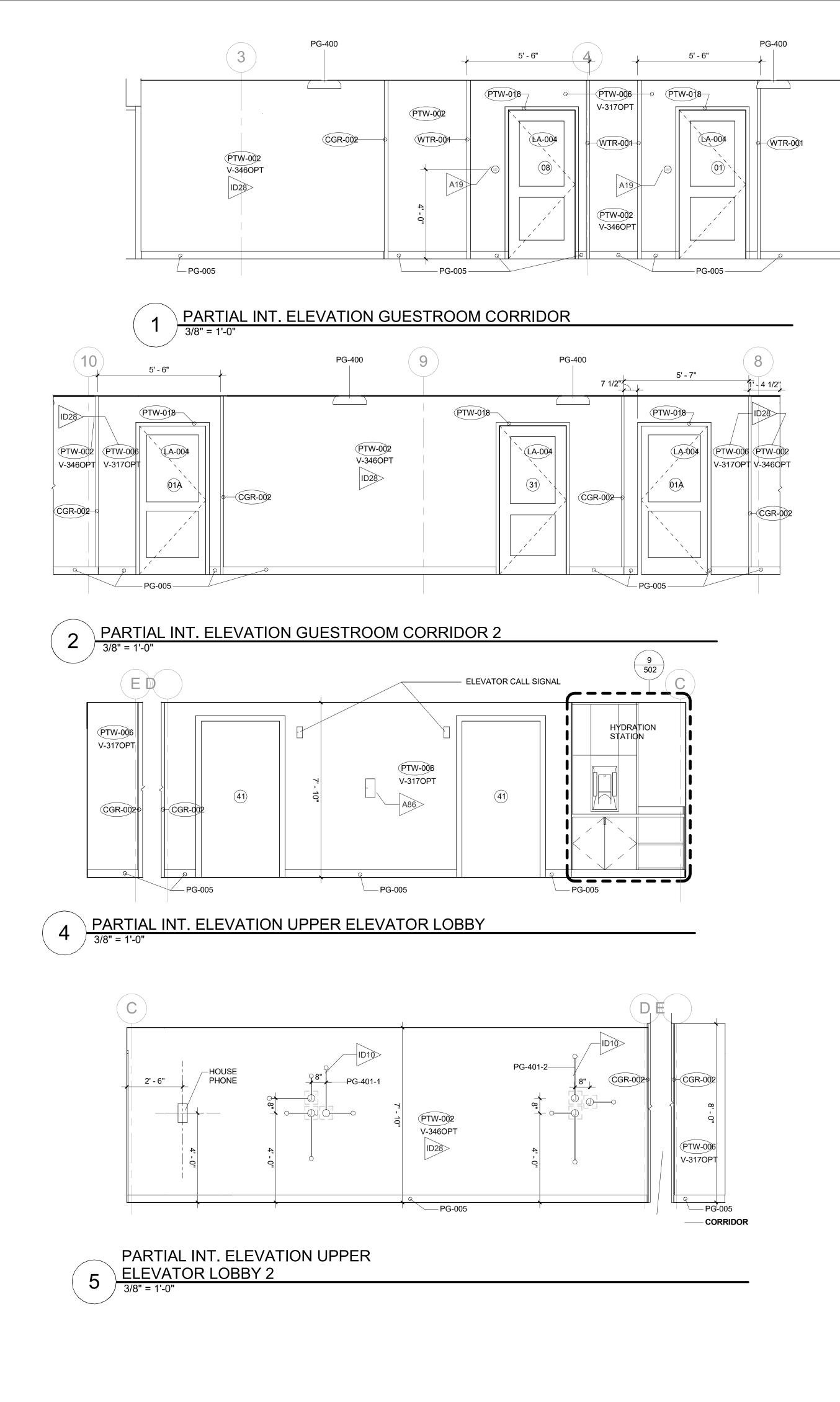
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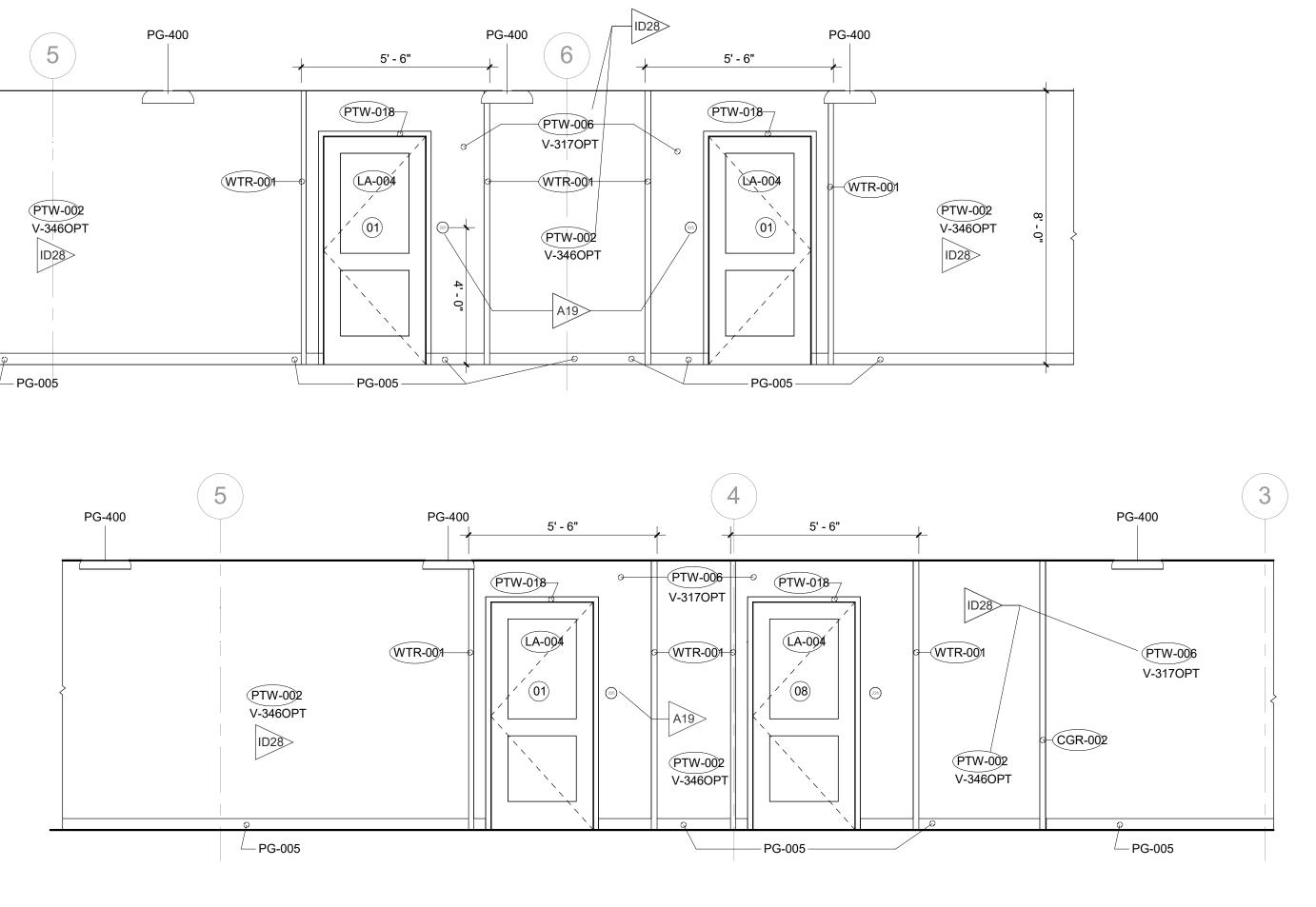
PROJECT NUMBER: 23098

SHEET NUMBER:

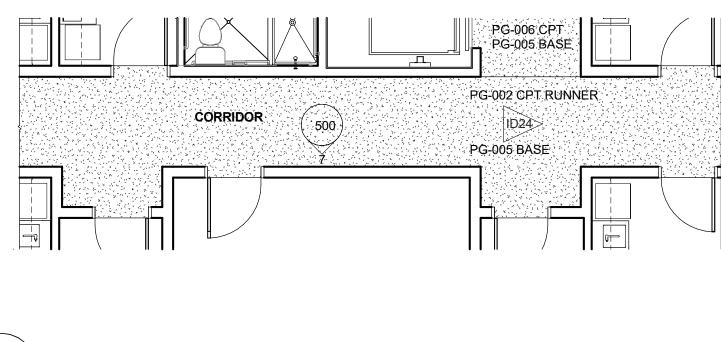


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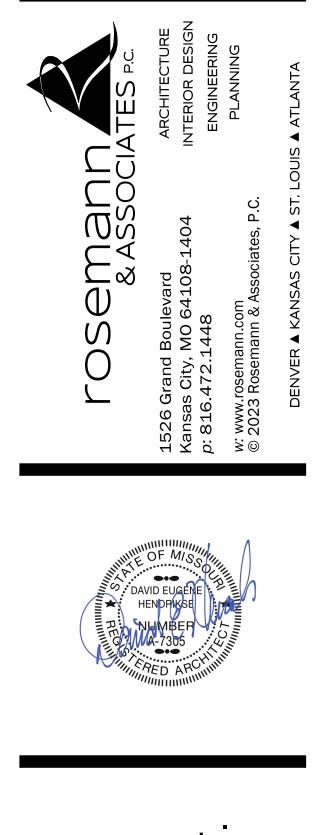






UPPER CORRIDOR CARPET PLAN 3/16" = 1'-0" 6

PRINTS ISSUED 11/01/2023 - CITY SUBMITTAL **REVISIONS:**



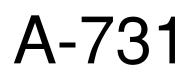
ST 1810 NORTHEAST DOUGLAS LEE'S SUMMIT 64064 USA

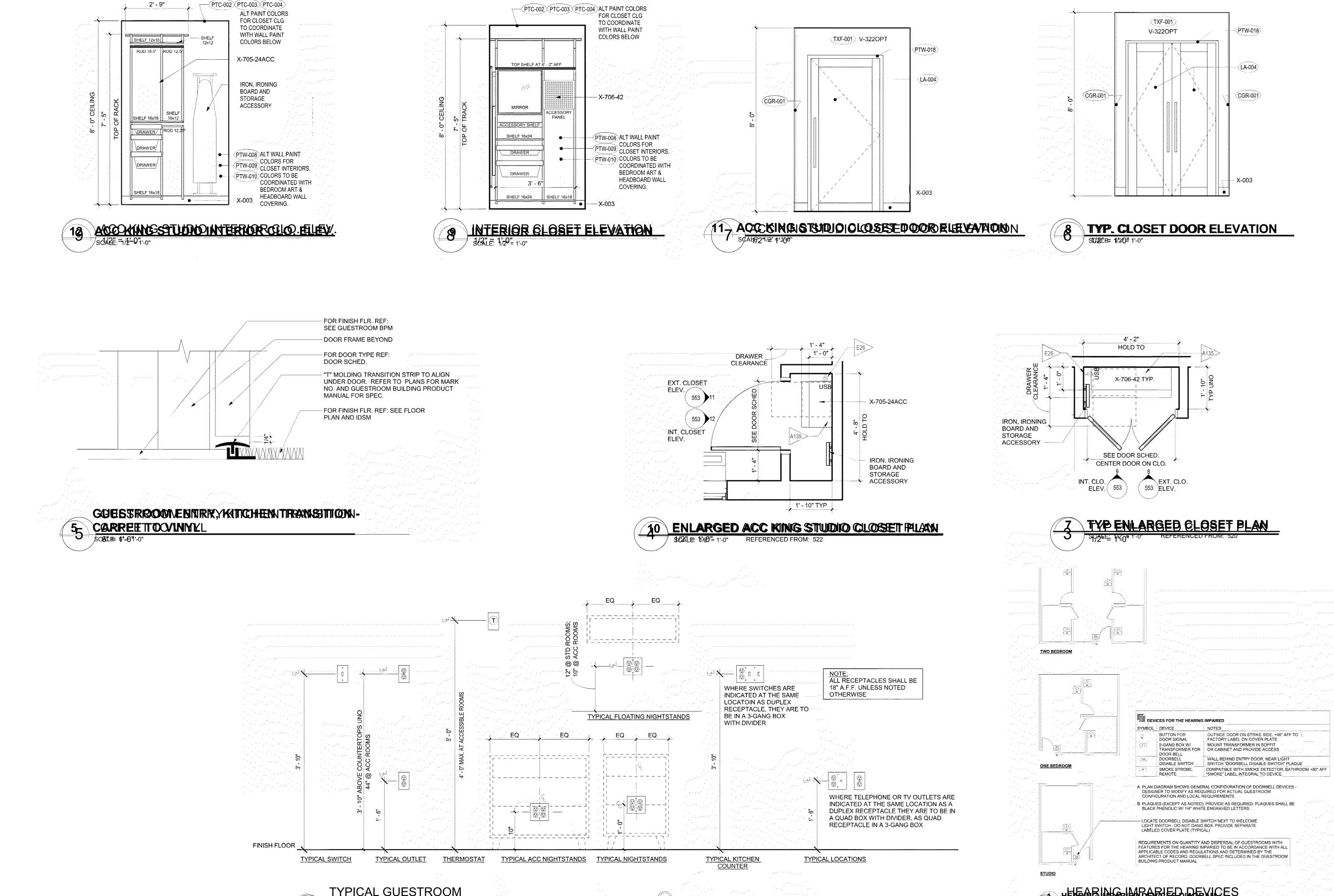
SHEET TITLE CORRIDOR ELEVATIONS

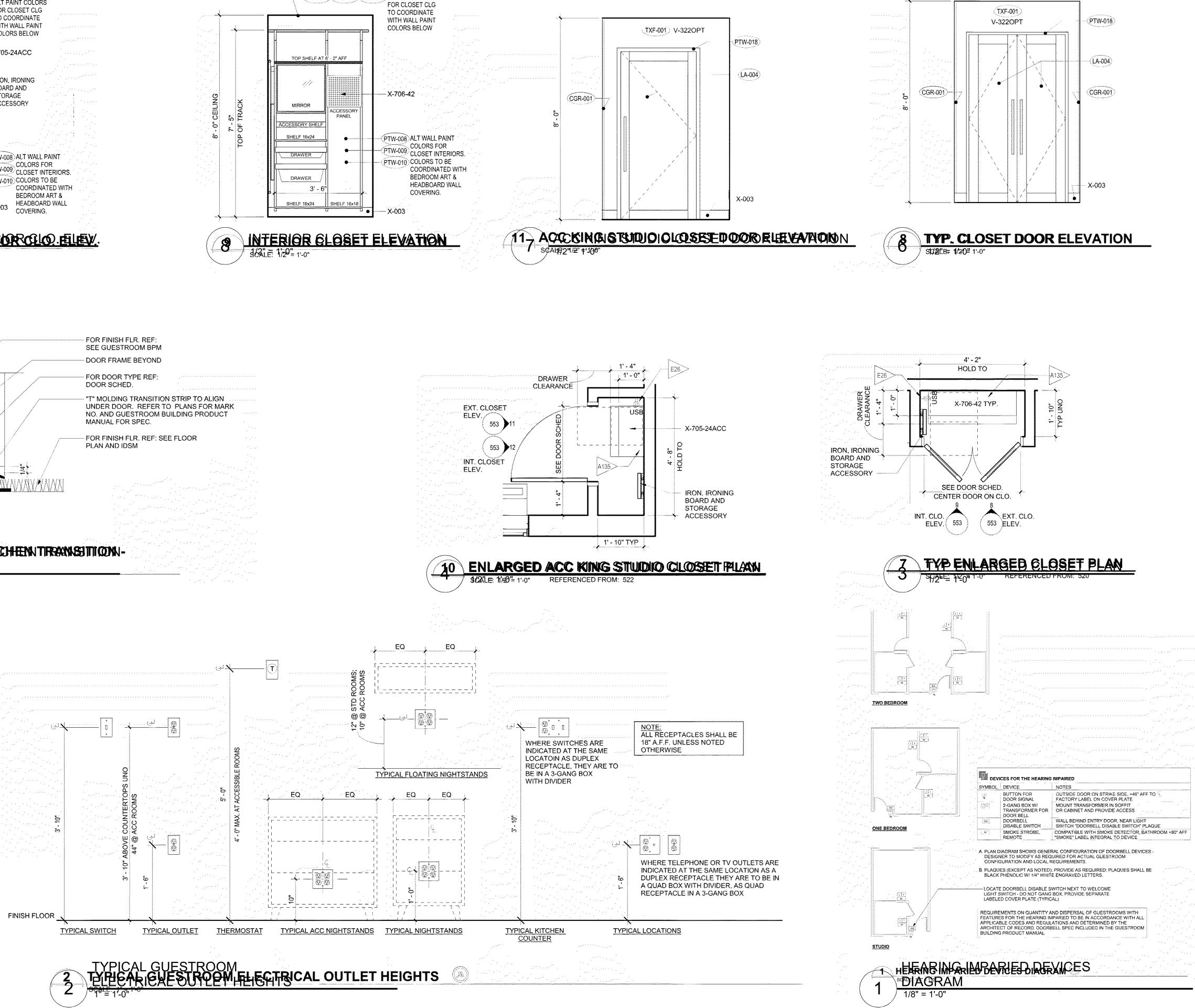
ACE SUITES

TOWNEPL

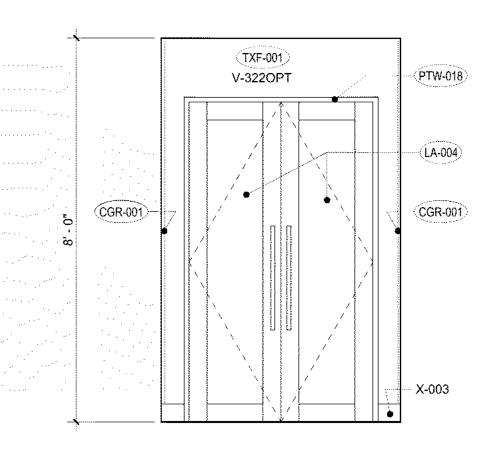
PROJECT NUMBER: 23098



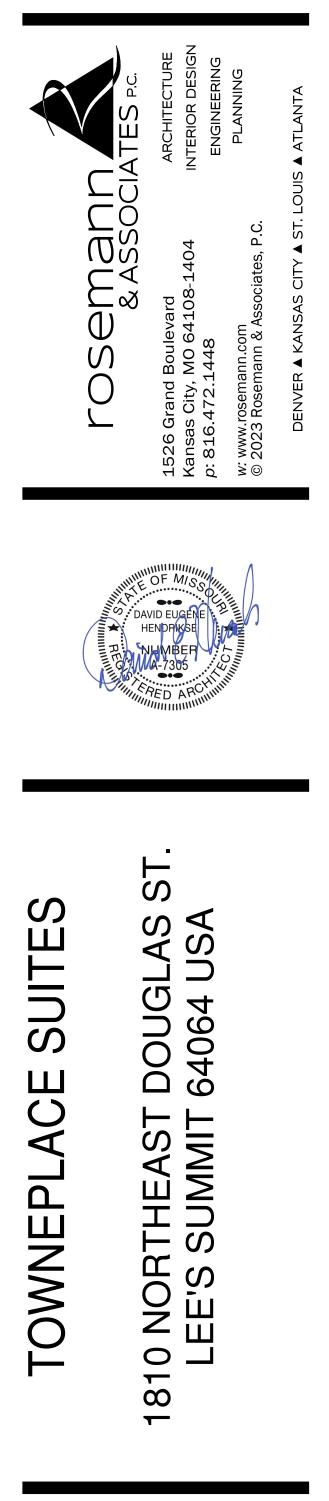




PRINTS ISSUED 11/01/2023 - CITY SUBMITTAL **REVISIONS:**

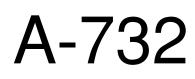






SHEET TITLE GUESTROOM DETAILS

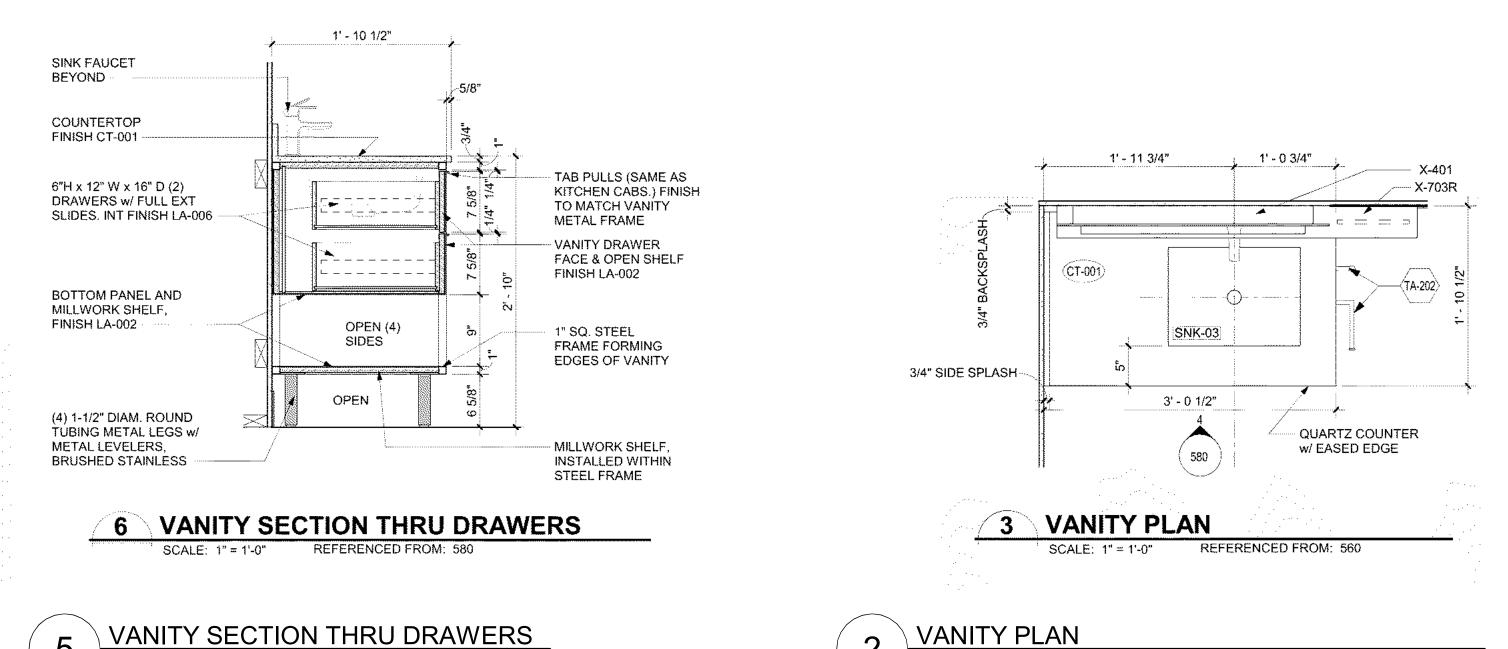
PROJECT NUMBER: 23098



HOLD SUBSTRATE -BACK TO ALLOW FOR SINK FLANGE. SINK ATTACHMENT: PROVIDE CONTINUOUS BEAD OF SILICONE ADHESIVE AT SINK JUNCTURE W/ STONE. WD SUBSTRATE TOP ATTACH SINK CLIPS TO WOOD SINK CLIP. SUBSTRATE OR PROVIDE STRAPS STRETCHED ACROSS UNDERSIDE OF BOWL. SEALANT STRAP (ALT). -SANK ATTACHMEENT-SEECTRON 6

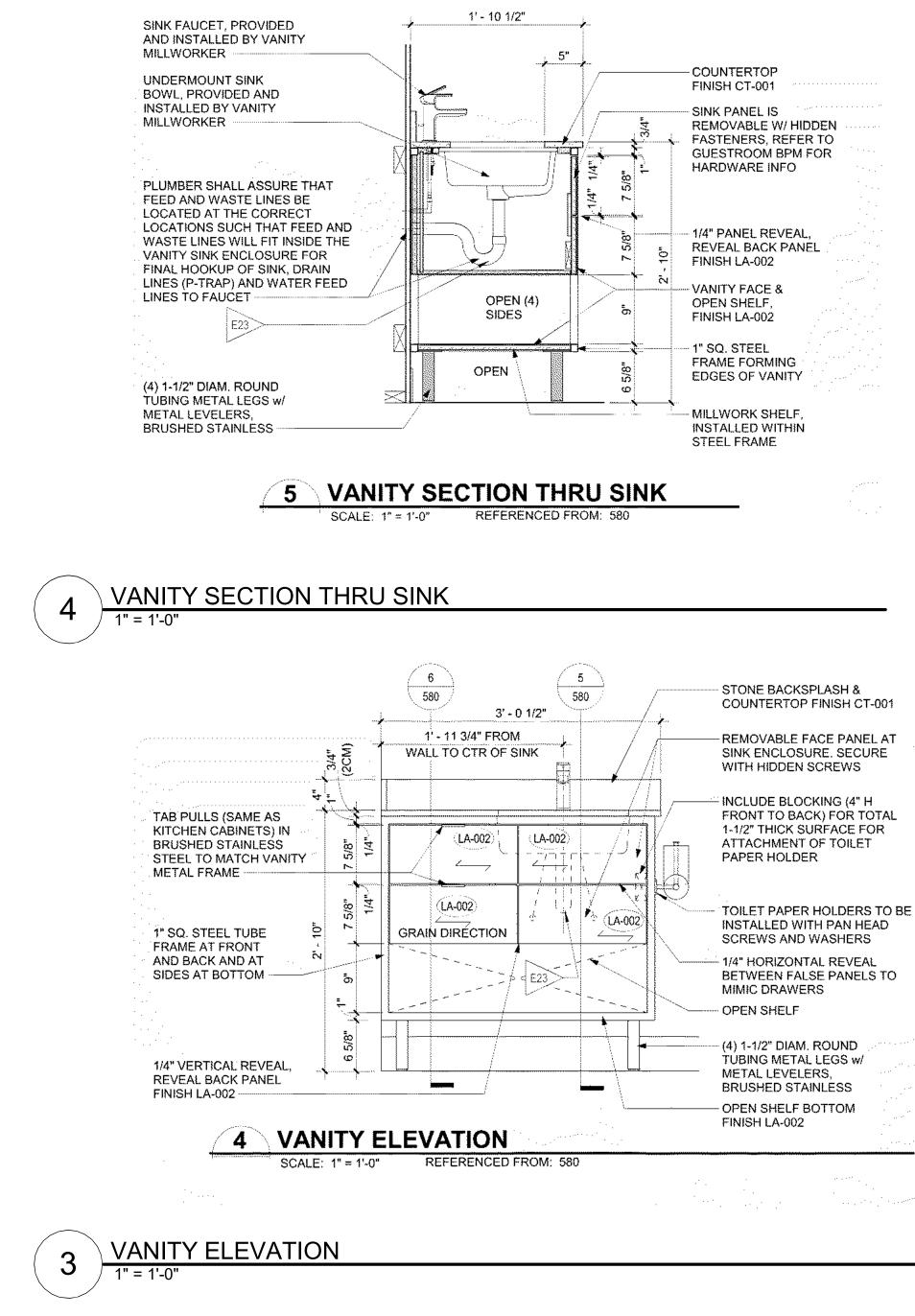
5

/ 1" = 1'-0"



2

1" = 1'-0"



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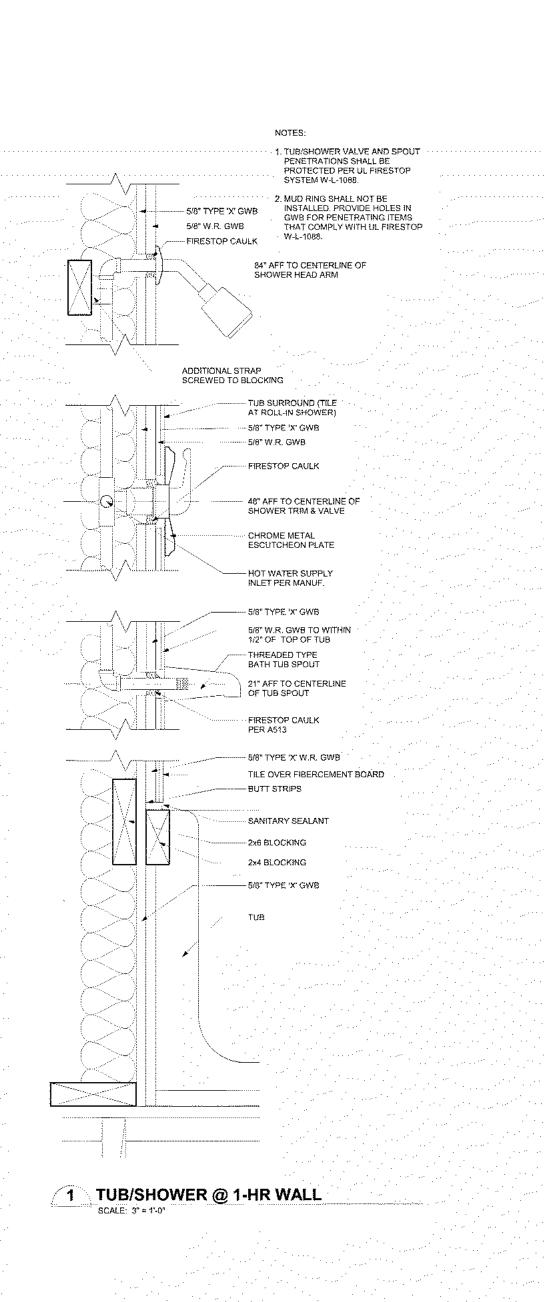
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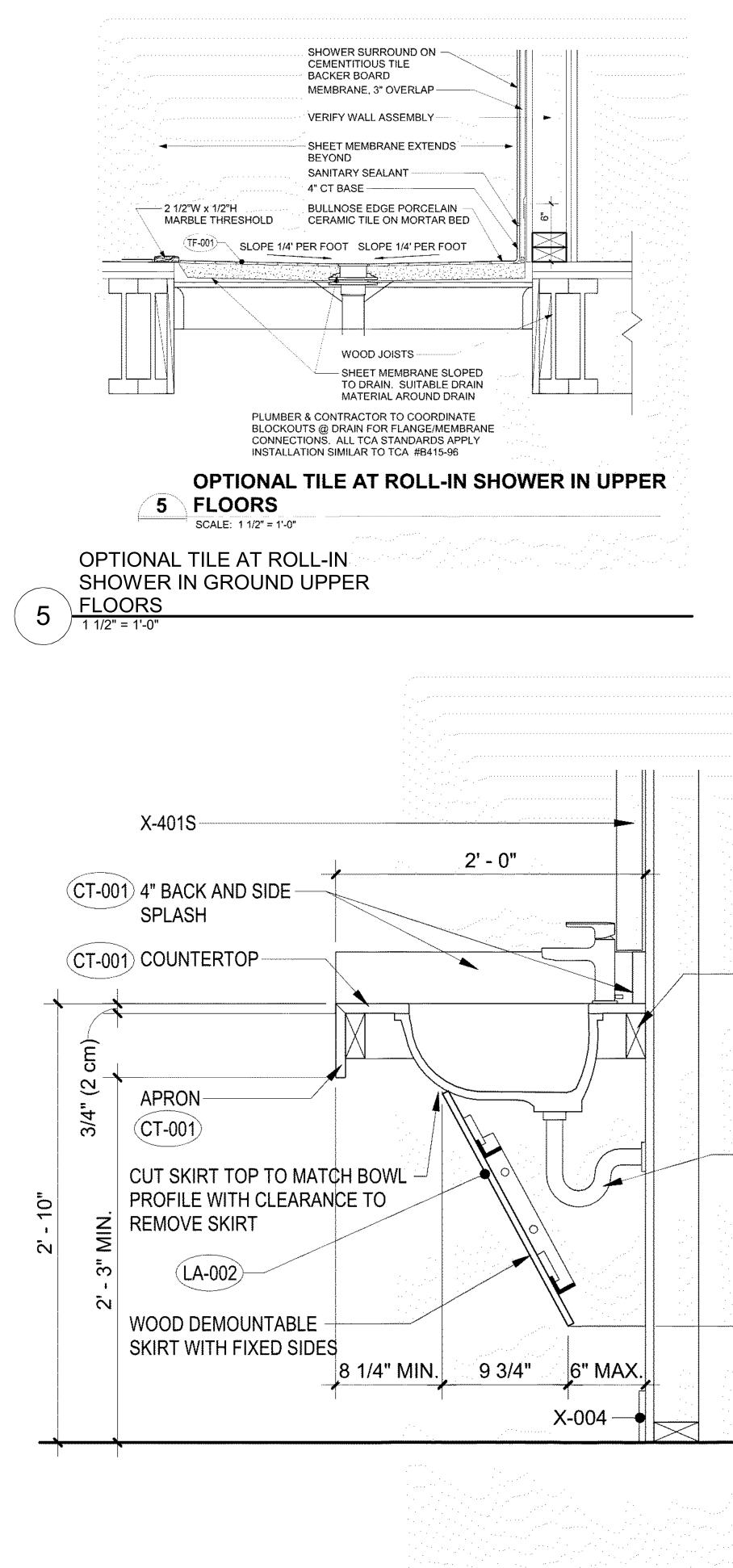




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A-733

TUB SHOWER 1 HR WALL 3" = 1'-0"

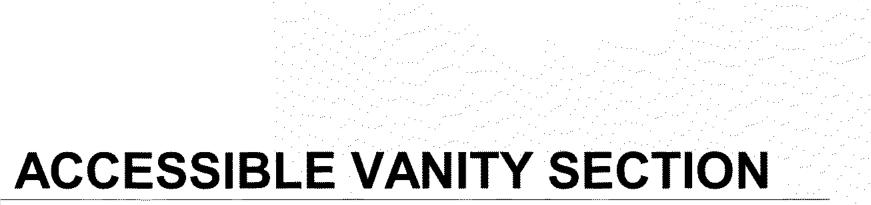


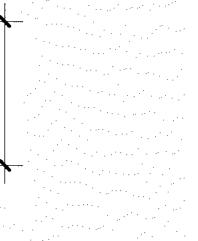


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ACCESSIBLES CANLEY SECTION 1" = 1'-0"





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-INSULATE PIPES AT ALL ACCESSIBLE TOILETS

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• • • • • • • • • • • • • • • • • • •	
-2X4 WOOD STUD FRAMING	

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2

OPTIONAL TILE AT ROLL-IN SHOWER IN GROUND FLOOR

4

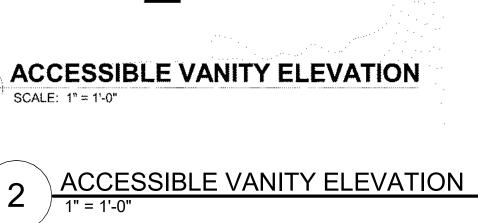
FLOOR

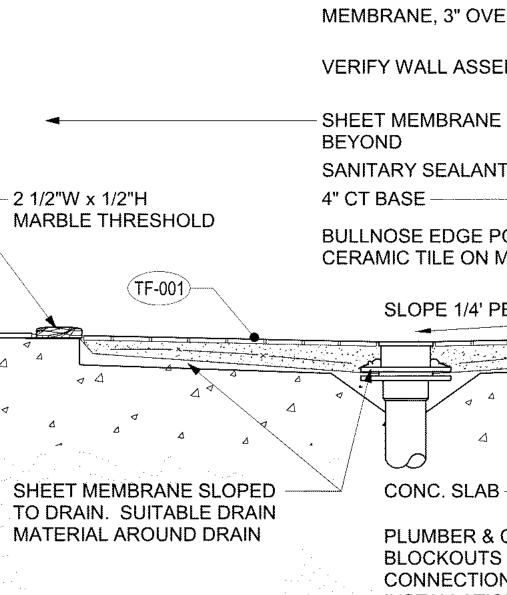
SCALE: 1 1/2" = 1'-0"

TOWEL BAR STONE BACKSPLASH AND -J (CT-001) · WRAP PIPES WITH INSULATING MATERIAL (LA-002) QUARTZ FRONT APRON GRAIN DIRECTION

BASE BEYOND

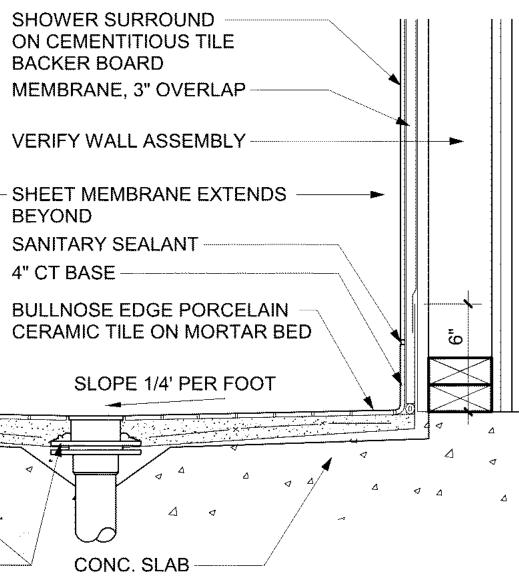
ACCESSIBLE VANITY ELEVATION SCALE: 1" = 1'-0"





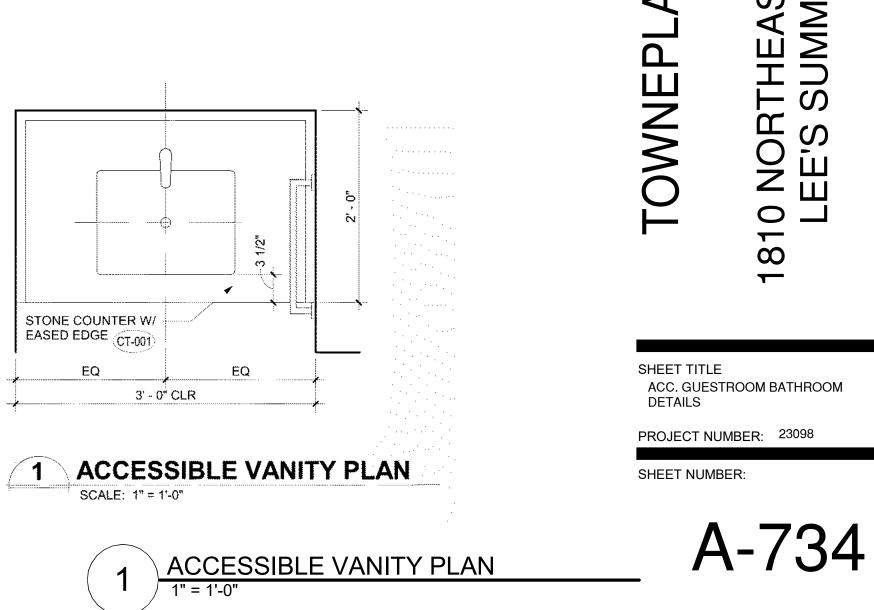
SHOWER SURROUND BACKER BOARD

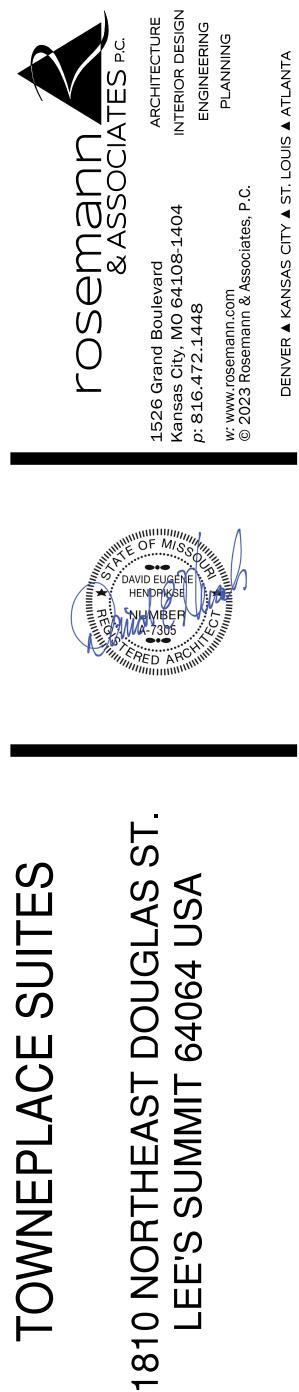
PRINTS ISSUED 11/01/2023 - CITY SUBMITTAL **REVISIONS:**



PLUMBER & CONTRACTOR TO COORDINATE **BLOCKOUTS @ DRAIN FOR FLANGE/MEMBRANE** CONNECTIONS. ALL TCA STANDARDS APPLY **INSTALLATION SIMILAR TO TCA #B415-96**

OPTIONAL TILE AT ROLL-IN SHOWER IN GROUND





Mechanical - Electrical - Plumbing Design Drawings for



GENERAL MEP SPECIFICATIONS

- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW AND UNDERSTAND ALL DRAWINGS AND SPECIFICATIONS IN THE CONTRACT DOCUMENTS. EACH CONTRACTOR IS RESPONSIBLE FOR ALL WORK ASSOCIATED WITH HIS TRADE REGARDLESS OF WHERE THE WORK IS DEPICTED IN THE DRAWINGS OR SPECIFICATIONS.
- THE LAYOUT OF SYSTEMS SHOWN ON PLANS ARE APPROXIMATE AND WILL NEED TO BE COORDINATED IN FIELD. THE CONTRACTOR SHALL INCLUDE THIS COORDINATION IN HIS SCOPE AND INCLUDE ALL COSTS OF MODIFYING THE LAYOUT AS REQUIRED IN HIS BID.
- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL NECESSARY PARTS AND LABOR TO PRODUCE A COMPLETE AND FULLY OPERATIONAL SYSTEM UNLESS STATED OTHERWISE ON PLANS.
- 4. ALL MATERIALS TO BE NEW, FIRST CLASS, AND INSTALLED PER MANUFACTURE'S PUBLISHED INSTRUCTIONS
- ALL WORK SHALL BE PERFORMED IN COMPLIANCE WITH LOCALLY ADOPTED CODES AND ORDINANCES. 6. CONTRACTOR IS RESPONSIBLE FOR COORDINATING EQUIPMENT LOCATIONS AND SYSTEM
- ROUTING WITH OTHER TRADES PRIOR TO INSTALLATION.
- 7. CONTRACTOR TO GUARANTEE ALL MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM THE DATE THE PROJECT IS TURN OVER TO THE OWNER, UNLESS NOTED OTHERWISE.
- 8. CONTRACTOR IS TO INCLUDE IN THEIR SCOPE THE COST OF ALL PERMITS, INSPECTIONS, METERING, AND TAPS ASSOCIATED WITH THEIR WORK.
- 9. CONTRACTOR IS RESPONSIBLE FOR ALL EXCAVATION, CUTTING, CORING, PATCHING, AND BACKFILL REQUIRED TO COMPLETE THEIR WORK, UNLESS NOTED OTHERWISE.
- 10. THESE PLANS ARE NOT TO BE SCALED. SEE ARCHITECTURAL PLANS FOR DIMENSIONS. WHERE THERE IS A CONFLICT BETWEEN ARCHITECTURAL DIMENSIONS AND MEP DIMENSION, ARCHITECTURAL SHALL GOVERN.
- 11. SEE DISCIPLINE SHEETS FOR ADDITIONAL DISCIPLINE SPECIFIC SPECIFICATIONS.

DEFERRED SUBMITTAL NOTES

- SUBMITTAL TO INCLUDE BATTERY CALCULATION, VOLTAGE DROP CALCULATIONS, AND DEVICE CUT SHEETS FOR DEVICES AND PANELS.
- QUALIFIED DESIGN PROFESSIONAL LICENSED BY THE STATE.

FIRE RATED PENETRATION NOTES

- THIS BUILDING CONTAINS FIRE RATED ASSEMBLIES. SEE ARCHITECTURAL PLANS FOR
- LOCATIONS.
- OR VERTICAL RATED ASSEMBLY IN ACCORDANCE WITH ASTM E814 OR UL 1479.
- RATED ASSEMBLIES.
- ALL UL LISTED FIRESTOP ASSEMBLIES

MEP COMMISSIONING REQUIREMENTS

• THIS BUILDING REQUIRES COMMISSIONING PER BRAND REQUIREMENTS. EQUIPMENT, LIGHTING CONTROLS, AND BUILDING AUTOMATION SYSTEM. SEE PLANS FOR DETAILS.

Towneplace Suites By Marriott

1810 Northeast Douglas St. Lee's Summit, Missouri 64064

FIRE ALARM CONTRACTOR TO PROVIDE DEFERRED SUBMITTAL FOR FIRE ALARM SYSTEM.

FIRE SPRINKLER CONTRACTOR TO PROVIDE DEFERRED SUBMITTAL FOR FIRE SPRINKLER SYSTEM SUBMITTAL TO INCLUDE HYDRAULIC CALCULATIONS AND SPRINKLER DRAWINGS SEALED BY A

• A UL LISTED FIRESTOP SYSTEM SHALL BE INSTALLED AT EACH PENETRATION OF A HORIZONTAL • EACH CONTRACTOR IS RESPONSIBLE FOR PROVIDING PROTECTION FOR HIS PENETRATIONS THRU

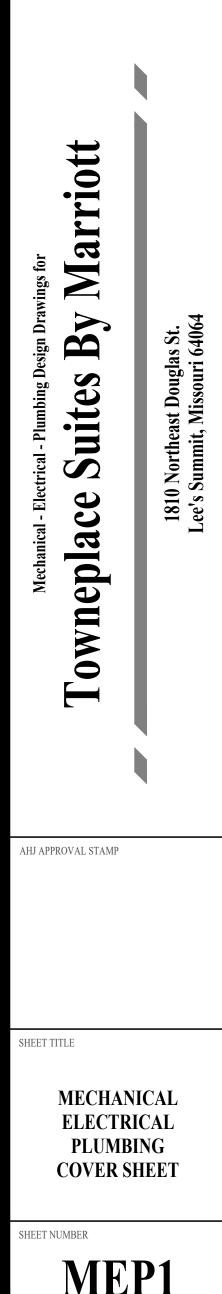
• THE GENERAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND MAINTAINING A CATALOG OF

• SYSTEMS REQUIRING COMMISSIONING INCLUDE DOAS UNITS, SPLIT SYSTEMS, WATER HEATING

REFERENCED CODES IN EFFECT

2018 INTERNATIONAL MECHANICAL CODE 2018 INTERNATIONAL PLUMBING CODE **2018 INTERNATIONAL FUEL GAS CODE 2018 INTERNATIONAL FIRE CODE 2017 NATIONAL ELECTRIC CODE**

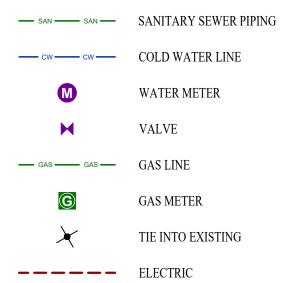
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www.j-squareden	
5 1	6
J2 PROJECT No:	10100/
J2 PROJECT NO:	J21006
J2 DESIGN:	ACW
ISSUE TITLE	DATE
CITY SUBMISSION	11 / 01 / 2023
CITY SUBMISSION	11 / 01 / 2023
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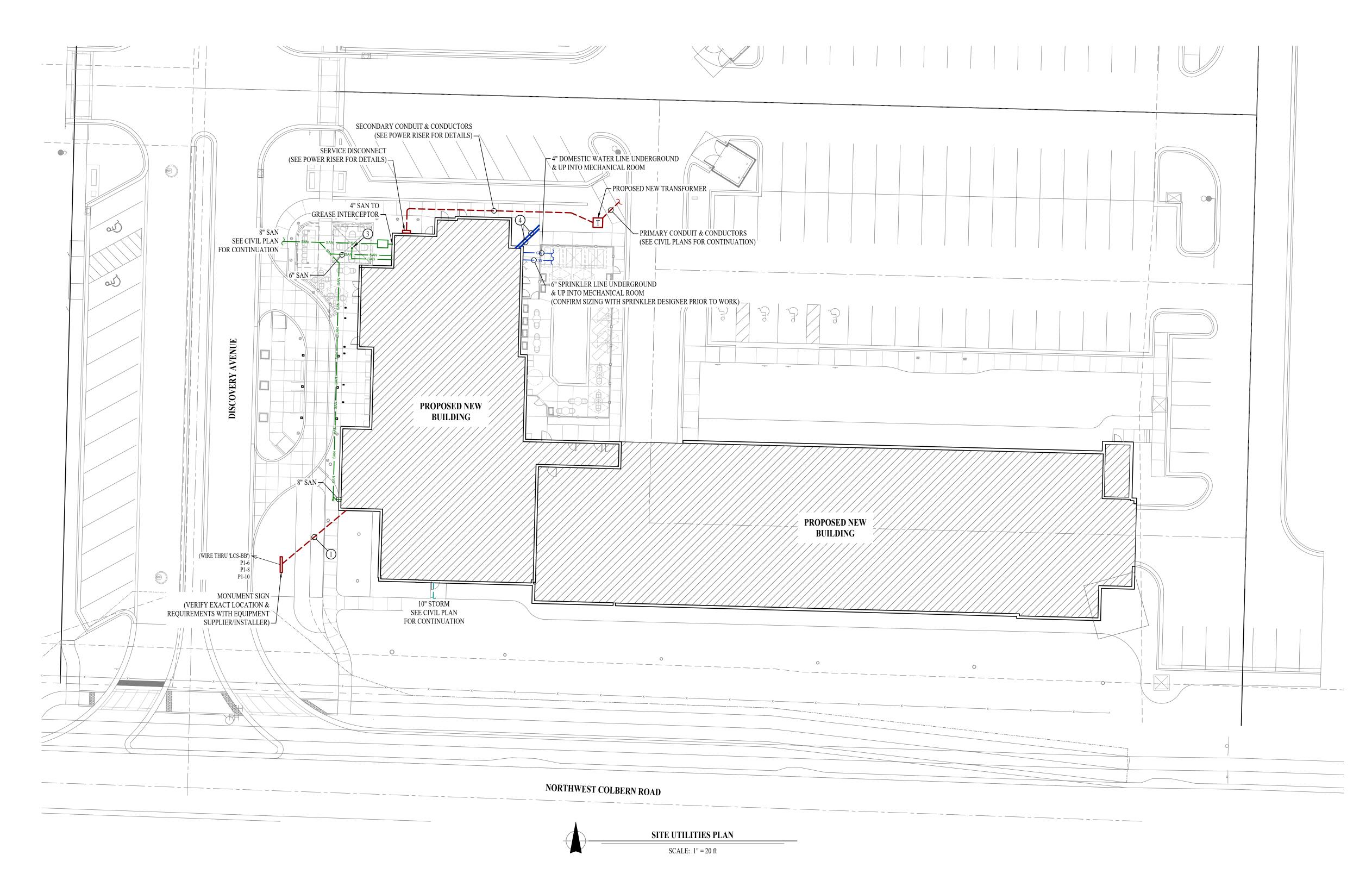


SHEET INDEX

SHEET #	SHEET TITLE
MEP1	MECHANICAL ELECTRICAL PLUMBING COVER SHEET
MEP2	SITE UTILITIES PLAN
MEP3	SITE LIGHTING PLAN
MEP4	MEP PLAN - ROOF
M101	HVAC PLAN - 1ST FLOOR - AREA A
M102	HVAC PLAN - 2ND-4TH FLOORS - AREA A
M111	HVAC PLAN - 1ST FLOOR - AREA B
M112	HVAC PLAN - 2ND-4TH FLOORS - AREA B
M501	HVAC DETAILS
M601	HVAC SCHEDULES
M602	HVAC SCHEDULES
EP101	POWER PLAN - 1ST FLOOR - AREA A
EP102	POWER PLAN - 2ND-4TH FLOORS - AREA A
EP111	POWER PLAN - 1ST FLOOR - AREA B
EP112	POWER PLAN - 2ND-4TH FLOORS - AREA B
EP401	POWER PLAN - GUEST ROOMS
EL101	LIGHTING PLAN - 1ST FLOOR - AREA A
EL102	LITHTING PLAN - 2ND & 3RD FLOOR - AREA A
EL103	LIGHTING PLAN - 4TH FLOOR - AREA A
EL111	LIGHTING PLAN - 1ST FLOOR - AREA B
EL112	LIGHTING PLAN - 2ND & 3RD FLOOR - AREA B
EL113	LIGHTING PLAN - 4TH FLOOR - AREA B
EL401	LIGHTING PLAN - GUEST ROOMS
FS101	FIRE PROTECTION & SECURTY SYSTEM PLAN - 1ST FLOOR - AREA A
FS102	FIRE PROTECTION & SECURITY SYSTEM PLAN - 2ND-4TH FLOORS - AREA A
FS111	FIRE PROTECTION & SECURITY SYSTEM PLAN - 1ST FLOOR - AREA B
FS112	FIRE PROTECTION & SECURITY SYSTEM PLAN - 2ND-4TH FLOORS - AREA B
E501	ELECTRICAL DETAILS
E601	ELECTRICAL SCHEDULES
E602	ELECTRICAL SCHEDULES
E603	ELECTRICAL SCHEDULES
E604	ELECTRCIAL SCHEDULES
PS101	SANITARY SEWER PLAN - 1ST FLOOR - AREA A
PS102	SANITARY SEWER PLAN - 2ND FLOOR - AREA A
PS111	SANITARY SEWER PLAN - 1ST FLOOR - AREA B
PS112	SANITARY SEWER PLAN - 2ND FLOOR - AREA B
PS401	SANITARY SEWER PLAN - GUEST ROOMS
PW101	WATER & GAS PLAN - 1ST FLOOR - AREA A
PW102	WATER & GAS PLAN - 2ND FLOOR - AREA A
PW111	WATER & GAS PLAN - 1ST FLOOR - AREA B
PW112	WATER & GAS PLAN - 2ND FLOOR - AREA B
PW401	WATER PLAN - GUEST ROOMS
P501	PLUMBING DETAILS & SCHEDULES

SITE PLAN SYMBOL LEGEND





SITE UTILITIES PLAN GENERAL NOTES:

1. REFER TO CIVIL PLANS FOR EXACT UTILITY LOCATIONS, CONNECTIONS, DETAILS, ETC.

SITE UTILITIES PLAN KEY NOTES:

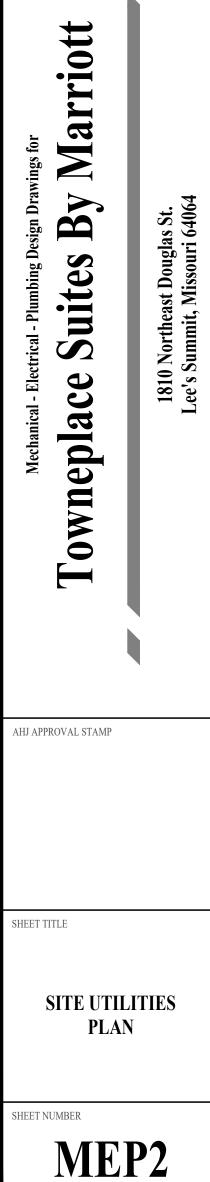
(1) (1) 2" CONDUIT WITH (6) #10 CU. & (3) #10 CU. EQ. GRD.

(2) STUB UP PRIMARY CONDUIT FOR FUTURE EXTENSION TO NEW TRANSFORMER FOR EV-CHARGING. COORDINATE WITH EVERGY.

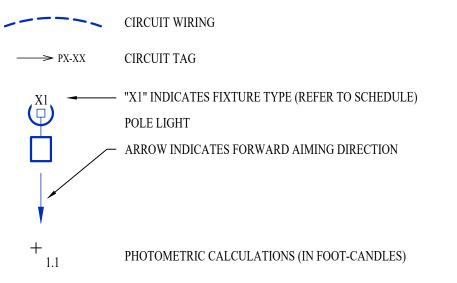
(3) TOTAL ESTIMATED LOAD AT GRILL/FIREPIT = 200kBTU. PLUMBING CONTRACTOR PROVIDE & INSTALL 120V ELECTRICALLY HELD (NORMALLY CLOSED)

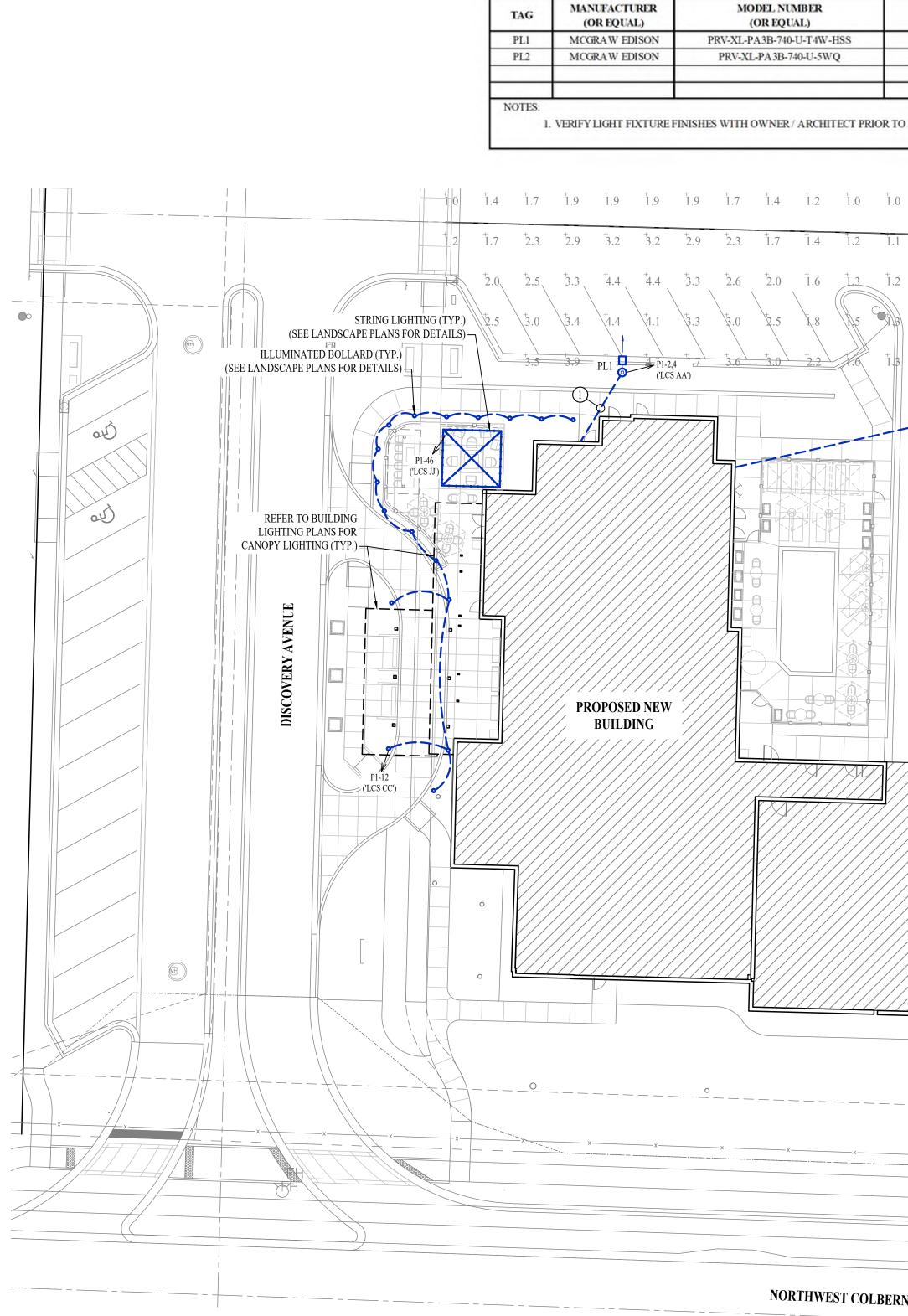
SOLENOID ON GAS LINE FOR EMERGENCY SHUT-OFF; COORDINATE WITH ELECTRICAL CONTRACTOR. (4) (2) 2" SLEEVES BELOW GRADE FROM MECHANICAL ROOM TO IRRIGATION METER FOR CONTROLS. COORDINATE WITH IRRIGATION CONTRACTOR.





SITE LIGHTING PLAN SYMBOL LEGEND





LIGHTING PLAN GENERAL NOTES:

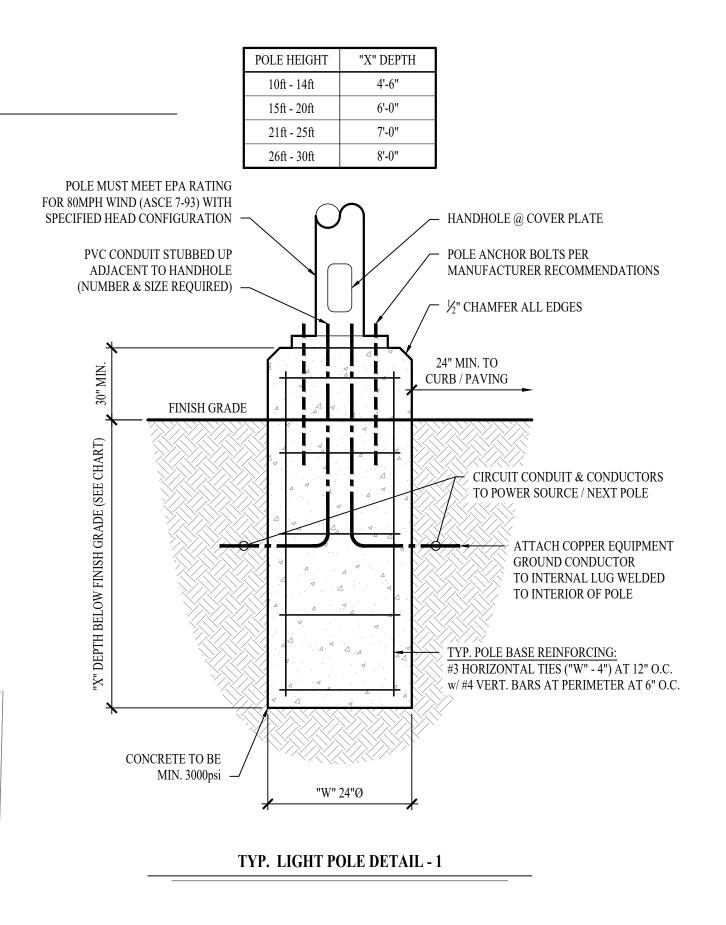
- 1. SITE PHOTOMETRIC VALUES SHOWN HAVE BEEN CALCULATED PER SPECIFIED LIGHT FIXTURES AT INDICATED MOUNTING HEIGHTS. ANY CHANGES OR ALTERATIONS TO LIGHTING LAYOUT SHOWN WILL REQUIRE RECALCULATING SITE PHOTOMETRICS AND WILL THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR / EQUIPMENT SUPPLIER.
- 2. PHOTOMETRIC CALCULATIONS SHOWN DO NOT INCLUDE EXISTING LIGHT FIXTURE(S), ONLY NEW POLE LIGHT FIXTURE(S) SHOWN.
- 3. SEE SHEET EL101 & EL111 FOR BUILDING MOUNTED EXTERIOR LIGHT FIXTURE CIRCUITING AND

5.	
4.	ADDITIONAL DETAILS.

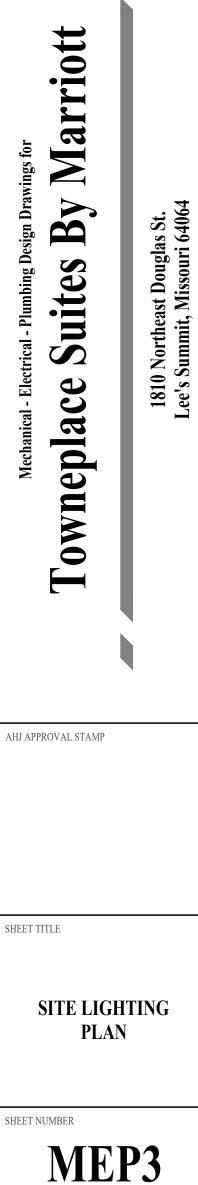
1	DESCRIPT	ION		MO	UNTING	;		LUMEN	CCT	°ю	CRI	vo	LTS	WATTS	NOTE	s								
POLELIGHT		POLE LIGHT 20 #SSS POLE ON 30" BASE 24,843								24,843	400		70	_	08	234			IM-L40W	/ MOTIO	ON SENS	ING DI	MMING	_
_	POLELIG	HT	20	#SSS PO	DLE ON 3	0" BASE		31,559	400	0	70	2	08	234	_						MMING			
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															1	I	1	1 1	1		/			
0	1.0	1.1 1.2	1.2	1.2	1.2	1.2	1.1	0.9	⁺ 0.8	⁺ 0.7	⁺ 0.7					T	I				/			
1.1	1.2	1.4 1.6	+ 1.7		$-\frac{1}{1.7}$		- <u>1.5</u>	12	1.0	<u>+</u> 0.8	0.8	⁺ 0.8	1.0	1.2	1.3	1.4	1.5	1.5	1.4	1.3	1.1	+ 0.9		
.2	1.4	[†] 1.7 [†] 2.0	2.1	2.3	⁺ 2.2	⁺ 2.0	1.8	1.4	1.1	⁺ 0.9	⁺ 0.9	⁺ 0.9	1.2	1.5	1.8	⁺ 1.9	⁺ 2.0	2.1	1.9	1.8	1.4	1.1		
1.3	1.4	+ 1.8 - 2.2	+2.6	+2.8	+2.7	2.4	+2.0	1.5	1.2	1.0	1.0	$^{+}1.0$	1.3	1.6	2.0	2.3	2.6	2.6	2.3	20	1.6	+		
i.2	1.5	†1.9 2.5	° + 3.1	+4.0	⁺ 3.5	⁺ 2.6	+ 2.1	1.6	⁺ 1.3	+ 1.1	⁺ 1.0	+ 1.1	+1.3	1.7	+ 2.2	⁺ 2.6	+3.3	⁺ 3.4	+ 2.7	⁺ 2.2	1.7	+		
.0	+ 4	⁺ 19 - 25	+32	– PL 4.3	2 3.6	⁺ 2.7	+ 2.2	+1.7	⁺ 1.3	+ 1.1	- ()	+	+1.4	1.8	+ 2.4	⁺ 2.9	+ DI 2	4 .5		C + <u>24</u>		+		
<u>}</u> -	+	+	+									+						,				+		
0.9		1.8 2.3	+27		I	I	I	1.6	I			+1.1		1.8			3.4		2.7		1.8			
.8 	1.2	⁺ 1.7 ⁺ 2.0	2.2	2.4	2.3	2.1	1.9	1.5	1.1	1.0	0.9	1.0	1.3	1.7	2.1	2.4	2.6	*2.7 	2.4	2.1	1.7	1.		
.8	1.1	⁺ 1.4 ⁺ 1.6	1.8	1.8	1.8	1.7	1.6	1.3	1.0	⁺ 0.9	⁺ 0.8	÷0.9	1.2	1.5	1.9	⁺ 2.0	2.2		2.1	1.9	1.6	+ 1.2		
.6	+0.8	+1.0 77.2	1.3	1.3			1.2	1.0	0.9	⁺ 0.8	+0.8	0.8	1.0	1.2	1.5	1.6	1.7	1.8	+ 1.7	+	1.5	+1.2		
5	0.6	⁺ 0.7 <u>+</u> 0.8	+0.9	0.9	+0.9	⁺ 0.9	⁺ 0.8	⁺ 0.8	⁺ 0.7	+0.7	+0.6	⁺ 0.7	0.8	⁺ 0.9	1.1	⁺ 1.3	1.4	1.5	1.5	1.5	1.4	+		
																				1.4	⁺ 1.4	+ 1.4		
		_																			1.9			
/				////	////	////	///	////	////	///	////	///	////	1111	////				1.6	2.1	^+2.4	2.		
/																			1.6	2.5	3.1	3.0		
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SITE LIGHTING PLAN

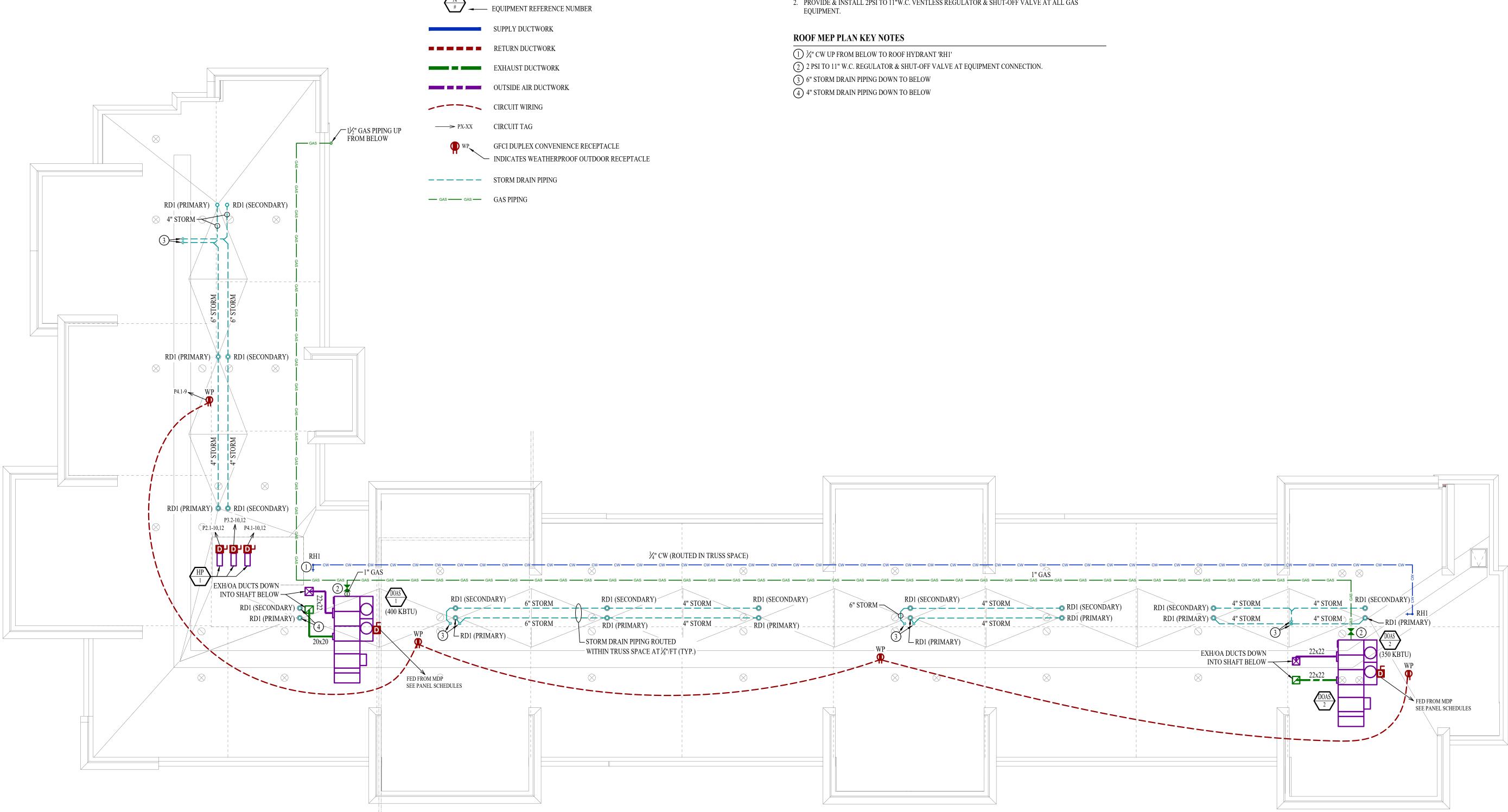
SCALE: 1" = 20 ft







ROOF MEP PLAN SYMBOL LEGEND

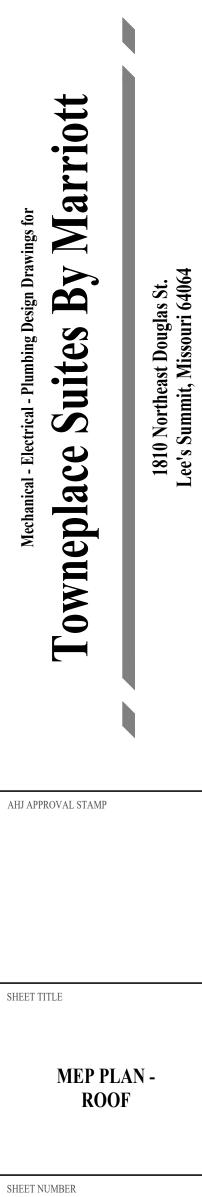


EQUIPMENT TYPE (REFER TO EQUIPMENT SCHEDULE)

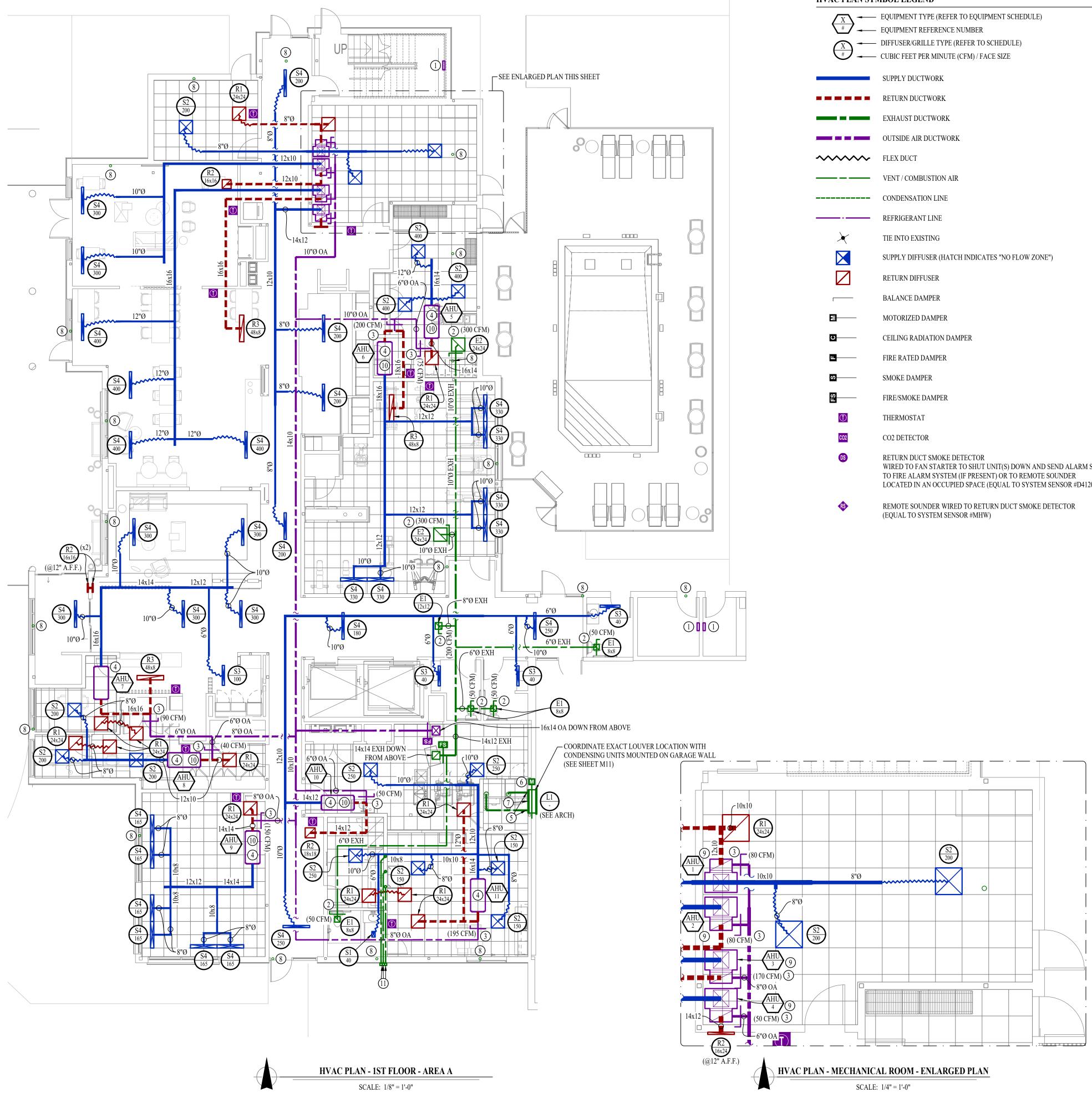
ROOF MEP PLAN GENERAL NOTES

1. REFER TO TRADE SPECIFIC SHEETS FOR ADDITIONAL INFORMATION. 2. PROVIDE & INSTALL 2PSI TO 11"W.C. VENTLESS REGULATOR & SHUT-OFF VALVE AT ALL GAS









\overline{X} -	– EQUIPMENT TYPE (REFER TO EQUIPMENT SCHEDULE)
	– EQUIPMENT REFERENCE NUMBER
	— DIFFUSER/GRILLE TYPE (REFER TO SCHEDULE)
#	- CUBIC FEET PER MINUTE (CFM) / FACE SIZE
	SUPPLY DUCTWORK
	RETURN DUCTWORK
	EXHAUST DUCTWORK
	OUTSIDE AIR DUCTWORK
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	FLEX DUCT
	VENT / COMBUSTION AIR
	CONDENSATION LINE
	REFRIGERANT LINE
$\left  \right\rangle$	TIE INTO EXISTING
	SUPPLY DIFFUSER (HATCH INDICATES "NO FLOW ZONE")
	RETURN DIFFUSER
<b></b>	BALANCE DAMPER
<b>2</b>	MOTORIZED DAMPER
<b>o</b>	CEILING RADIATION DAMPER
ш	FIRE RATED DAMPER
<b>o</b>	SMOKE DAMPER
S	FIRE/SMOKE DAMPER
	THERMOSTAT
CO2	CO2 DETECTOR
DS	RETURN DUCT SMOKE DETECTOR WIRED TO FAN STARTER TO SHUT UNIT(S) DOWN AND SEND ALARM SIGNAL TO FIRE ALARM SYSTEM (IF PRESENT) OR TO REMOTE SOUNDER LOCATED IN AN OCCUPIED SPACE (EQUAL TO SYSTEM SENSOR #D4120)

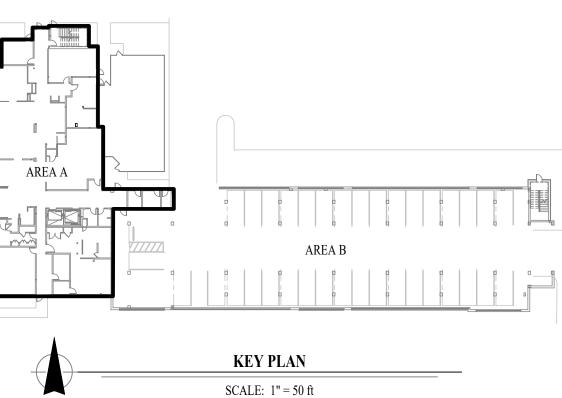


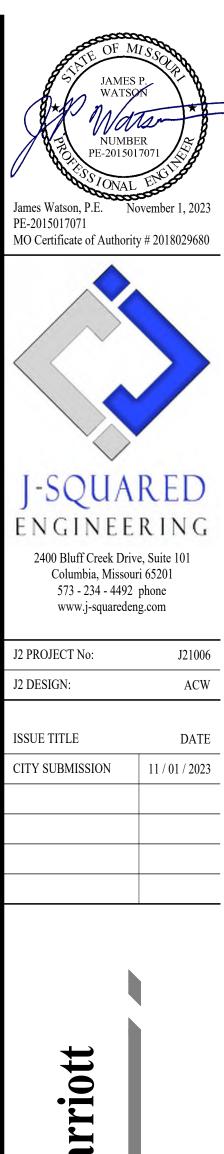
## HVAC PLAN GENERAL NOTES:

- 1. SEE M500 & M600 SERIES SHEETS FOR ADDITIONAL HVAC NOTES, DETAIL, AND SCHEDULES. 2. ALL HVAC EQUIPMENT SHALL BE FULLY INTEGRATED AND AUTOMATED THRU BUILDING AUTOMATION SYSTEM. SEE BUILDING AUTOMATION SYSTEM NOTES FOR DETAILS. 3. ALL REFRIGERANT PIPING SHALL ROUTE IN SPACE WITHIN WALLS OR ABOVE FINISHED CEILINGS TO REMAIN CONCEALED. 4. ALL DUCTWORK SHOWN SHALL ROUTE IN SPACE ABOVE FINISHED CEILINGS TO REMAIN CONCEALED
- UNLESS NOTE OTHERWISE. HVAC CONTRACTOR TO ADJUST SIZING & ROUTING AS NECESSARY TO COORDINATE WITH ALL OTHER TRADES.

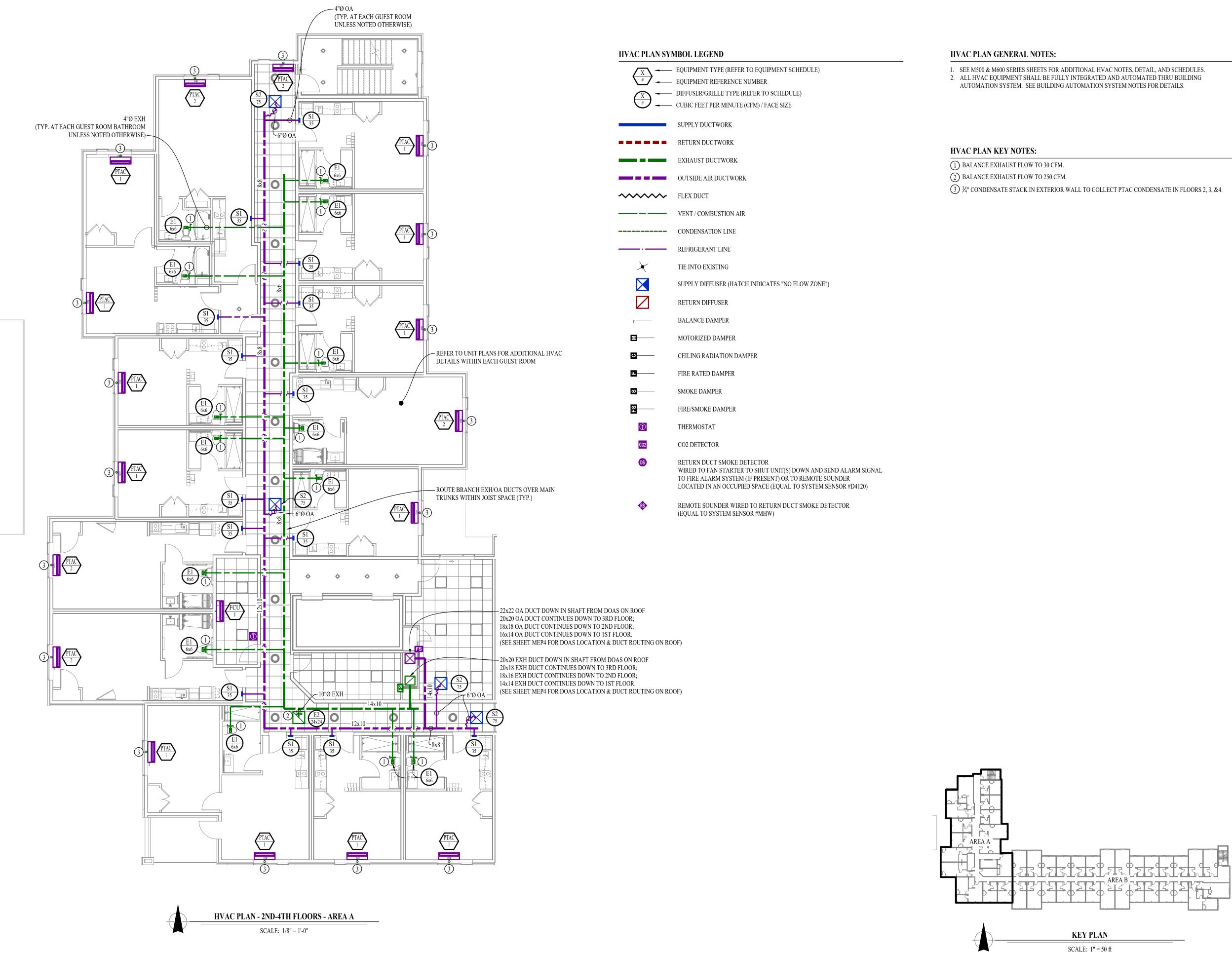
## HVAC PLAN KEY NOTES:

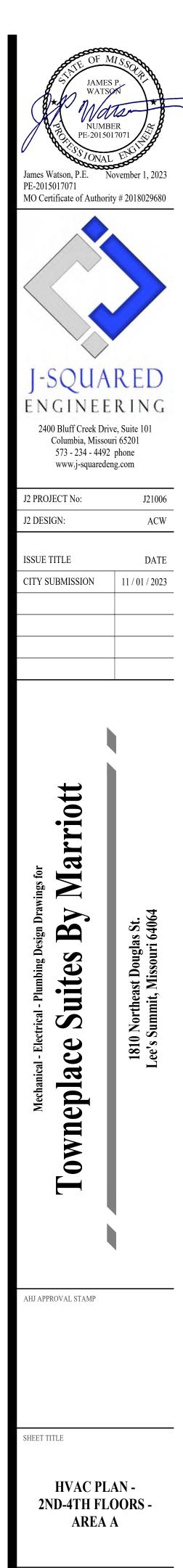
- (1) WALL HEATER PROVIDED & INSTALLED BY ELECTRICIAN.
- (2) BALANCE EXHAUST FLOW TO AMOUNT SHOWN (XXX CVM).
- (3) BALANCE OA FLOW TO AMOUNT SHOWN (XXX CVM). (4) AHU TO BE SUSPENDED ABOVE CEILING.
- (5) EXTEND 10"Ø DRYER EXHAUST FROM EACH COMMERCIAL DRYER & TERMINATE AT TOP OF LOUVER (SEE DETAIL). DRYER VENT TO TERMINATE A MINIMUM OF 3'-0" ABOVE INTAKE LOUVER.
- (6) MOTORIZED DAMPER SHALL OPEN WHEN EITHER OF THE DRYERS IS IN OPERATION.
- (7) DRYER MAKE-UP DUCT OPEN TO CAVITY BEHIND DRYERS.
- (8) ¾" CONDENSATE DOWN FROM PTACS ON FLOORS ABOVE. ROUTE OVER & INDIRECT DISCHARGE INTO NEAREST HUB-DRAIN ABOVE CEILING (SEE SANITARY PLANS)
- (9) AHU CONDENSATE TO INDIRECT DISCHARGE IN FLOOR DRAIN WITHIN MECHANICAL ROOM. (10) AHU CONDENSATE TO INDIRECT DISCHARGE IN NEARBY HUB-DRAIN IN WALL (SEE SANITARY PLANS).
- (1) 4" DRYER EXHAUST FROM GUEST LAUNDRY DRYER TO EXTERIOR; TERMINATE WITH #DWV (COLOR DETERMINED BY ARCHITECT). WRAP DRYER EXHAUST WITH ZERO-CLEARANCE FIREWRAP EQUAL TO FIREMASTER DUCTWRAP OR EQUAL. DRYER EXHAUST SHALL NOT EXCEED 35' IN TOTAL DEVELOPED LENGTH PER IMC 504.8.4.





Mechanical - Electrical - Plumbing Design Drawings for Towneplace Suites By Marriott	1810 Northeast Douglas St. Lee's Summit, Missouri 64064				
AHJ APPROVAL STAMP					
SHEET TITLE					
HVAC PLAN - 1ST FLOOR - AREA A					
	1				
NIIUI					

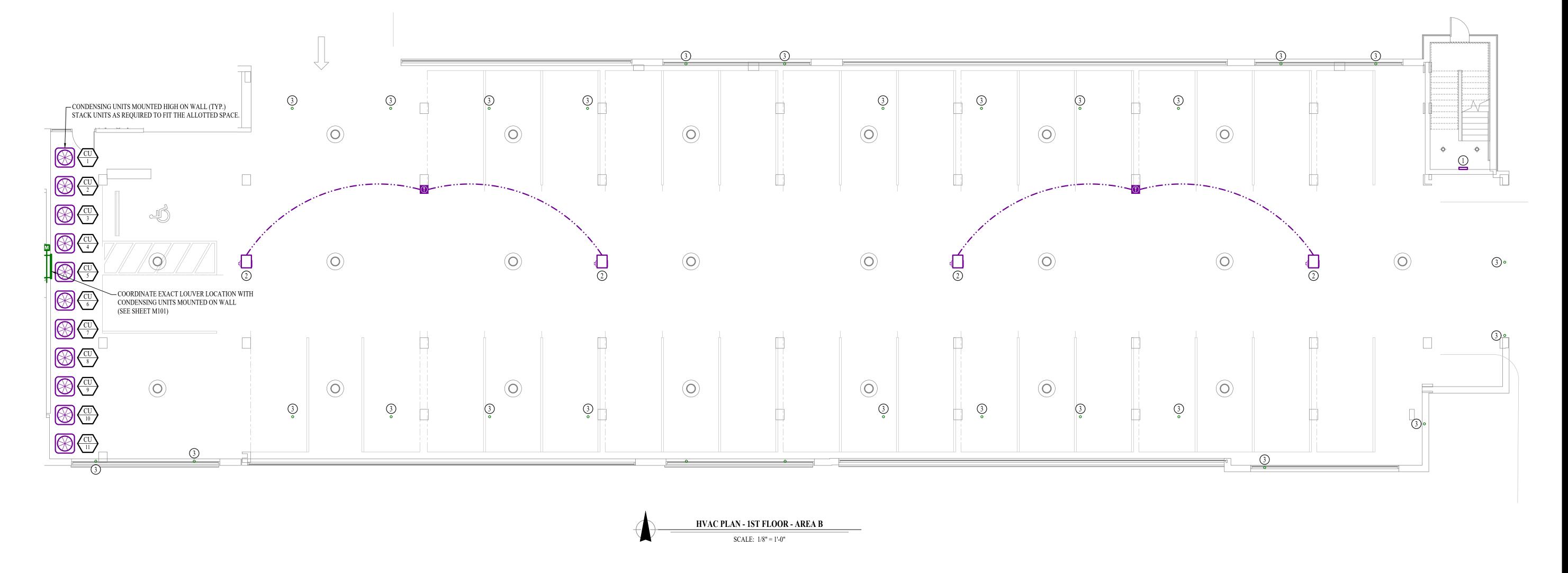






## HVAC PLAN SYMBOL LEGEND

X	– EQUIPMENT TYPE (REFER TO EQUIPMENT SCHEDULE)	<ol> <li>SEE M500 &amp; M600 SERIES SHEETS</li> <li>ALL HVAC EQUIPMENT SHALL E</li> </ol>
	- EQUIPMENT REFERENCE NUMBER	AUTOMATION SYSTEM. SEE BU
(X)	- DIFFUSER/GRILLE TYPE (REFER TO SCHEDULE)	3. ALL REFRIGERANT PIPING SHAI REMAIN CONCEALED.
	- CUBIC FEET PER MINUTE (CFM) / FACE SIZE	
	SUPPLY DUCTWORK	
	RETURN DUCTWORK	HVAC PLAN KEY NOTES:
	EXHAUST DUCTWORK	<ol> <li>WALL HEATER PROVIDED &amp; IN</li> <li>PROVIDE &amp; INSTALL CONCEAL</li> </ol>
	OUTSIDE AIR DUCTWORK	(3) ³ / ₄ " CONDENSATE DOWN FROM
~~~~~~	FLEX DUCT	DOWN TO INDIRECT DISCHARC PLANS)
	VENT / COMBUSTION AIR	
	CONDENSATION LINE	
<u> </u>	REFRIGERANT LINE	
$\left(\star \right)$	TIE INTO EXISTING	
	SUPPLY DIFFUSER (HATCH INDICATES "NO FLOW ZONE")	
	RETURN DIFFUSER	
	BALANCE DAMPER	
Σ	MOTORIZED DAMPER	
<u>ں</u>	CEILING RADIATION DAMPER	
u	FIRE RATED DAMPER	
<u></u>	SMOKE DAMPER	
8 	FIRE/SMOKE DAMPER	
	THERMOSTAT	
CO2	CO2 DETECTOR	
DS	RETURN DUCT SMOKE DETECTOR WIRED TO FAN STARTER TO SHUT UNIT(S) DOWN AND SEND ALARM SIGNAL TO FIRE ALARM SYSTEM (IF PRESENT) OR TO REMOTE SOUNDER LOCATED IN AN OCCUPIED SPACE (EQUAL TO SYSTEM SENSOR #D4120)	
43	REMOTE SOUNDER WIRED TO RETURN DUCT SMOKE DETECTOR (EQUAL TO SYSTEM SENSOR #MHW)	



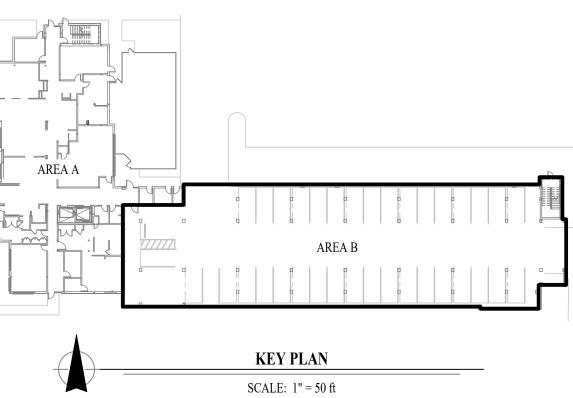
SERIES SHEETS FOR ADDITIONAL HVAC NOTES, DETAIL, AND SCHEDULES. MENT SHALL BE FULLY INTEGRATED AND AUTOMATED THRU BUILDING STEM. SEE BUILDING AUTOMATION SYSTEM NOTES FOR DETAILS. T PIPING SHALL ROUTE IN SPACE WITHIN WALLS OR ABOVE FINISHED CEILINGS TO

OVIDED & INSTALLED BY ELECTRICIAN.

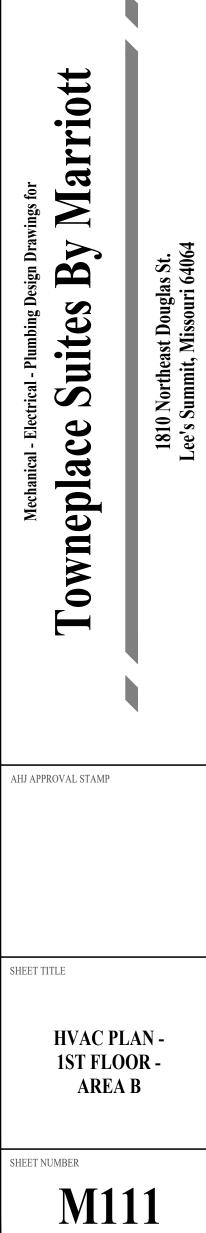
HVAC PLAN GENERAL NOTES:

ALL CONCEALED ZERO-CLEARANCE PLENUM HEATER EQUAL TO BERKO #BPH158324. E DOWN FROM PTACS ON FLOORS ABOVE. ROUTE OVER IN HEATED SPACE & ROUTE ECT DISCHARGE INTO NEAREST FLOOR DRAIN NEXT TO COLUMN (SEE SANITARY



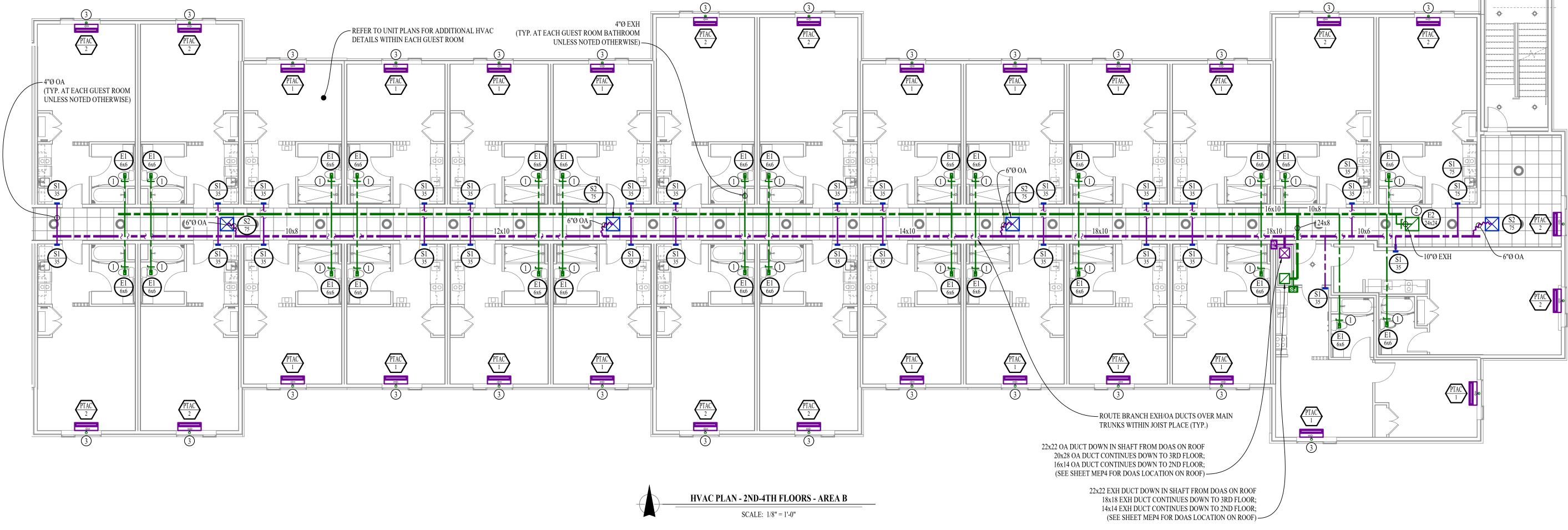


JAMES WATSO NUMBE PE-201501 James Watson, P.E. No PE-2015017071	PR 7071				
MO Certificate of Authority # 2018029680					
J2 PROJECT No:	J21006				
J2 DESIGN:	ACW				
ISSUE TITLE CITY SUBMISSION	DATE 11 / 01 / 2023				
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HVAC PLAN SYMBOL LEGEND

	– EQUIPMENT TYPE (REFER TO EQUIPMENT SCHEDULE)	1. SEE M
#	– EQUIPMENT REFERENCE NUMBER	2. ALL H AUTO
	- DIFFUSER/GRILLE TYPE (REFER TO SCHEDULE)	
	- CUBIC FEET PER MINUTE (CFM) / FACE SIZE	
	SUPPLY DUCTWORK	HVAC P
	RETURN DUCTWORK	1 BALA
	EXHAUST DUCTWORK	(2) BALA (3) ¾" CC
	OUTSIDE AIR DUCTWORK	
~~~~~	FLEX DUCT	
	VENT / COMBUSTION AIR	
	CONDENSATION LINE	
·	REFRIGERANT LINE	
$\left  \right\rangle$	TIE INTO EXISTING	
	SUPPLY DIFFUSER (HATCH INDICATES "NO FLOW ZONE")	
	RETURN DIFFUSER	
	BALANCE DAMPER	
Σ	MOTORIZED DAMPER	
ပ 	CEILING RADIATION DAMPER	
	FIRE RATED DAMPER	
<u> တ</u>	SMOKE DAMPER	
<u>ଜ</u>	FIRE/SMOKE DAMPER	
1	THERMOSTAT	
CO2	CO2 DETECTOR	
DS	RETURN DUCT SMOKE DETECTOR WIRED TO FAN STARTER TO SHUT UNIT(S) DOWN AND SEND ALARM SIGNAL TO FIRE ALARM SYSTEM (IF PRESENT) OR TO REMOTE SOUNDER LOCATED IN AN OCCUPIED SPACE (EQUAL TO SYSTEM SENSOR #D4120)	
<b>R</b> >	REMOTE SOUNDER WIRED TO RETURN DUCT SMOKE DETECTOR (EQUAL TO SYSTEM SENSOR #MHW)	



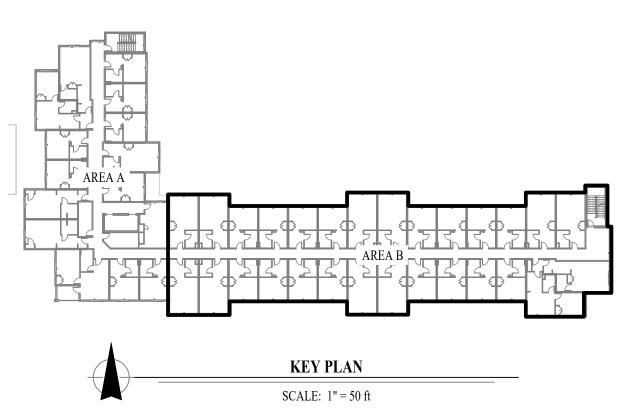
## HVAC PLAN GENERAL NOTES:

OMATION SYSTEM. SEE BUILDING AUTOMATION SYSTEM NOTES FOR DETAILS.

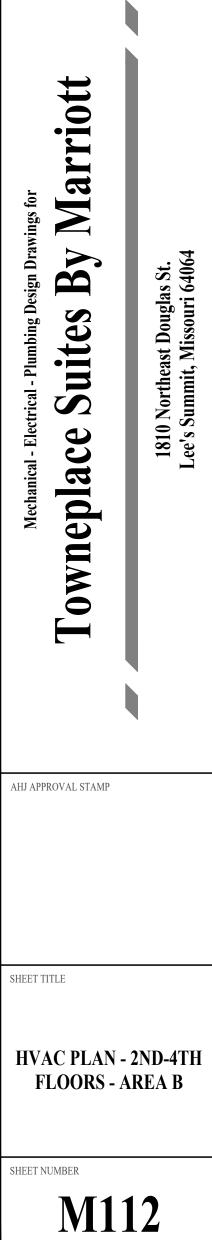
#### C PLAN KEY NOTES:

LANCE EXHAUST FLOW TO 30 CFM. LANCE EXHAUST FLOW TO 250 CFM. CONDENSATE STACK IN EXTERIOR WALL TO COLLECT PTAC CONDENSATE IN FLOORS 2, 3, &4.

M500 & M600 SERIES SHEETS FOR ADDITIONAL HVAC NOTES, DETAIL, AND SCHEDULES. HVAC EQUIPMENT SHALL BE FULLY INTEGRATED AND AUTOMATED THRU BUILDING







#### **HVAC SPECIFICATIONS**

- 1. EQUIPMENT 1.1. ALL EQUIPMENT MUST PROVIDE THE PERFORMANCE SPECIFIED ON PLANS. WHERE SPECIFIC MAKES AND MODELS ARE INDICATED ON PLAN, CONTRACTOR TO PROVIDE MODEL INDICATED OR APPROVED EQUAL.
- CONTRACTOR TO SUPPLY SUBMITTALS FOR ALL EQUIPMENT FOR REVIEW BY ARCHITECT 1.2. AND ENGINEER PRIOR TO PURCHASE,
- ALL HORIZONTAL FURNACES WITH AC COILS TO BE EQUIPPED WITH CORROSION RESISTANT 1.3. DRAIN PAIN. DRAIN PAN TO DISCHARGE TO SANITARY WASTE VIA INDIRECT CONNECTION WITH AIR GAP. DRAIN PAN TO PROVIDE SECONDARY OVERFLOW OR FLOAT SWITCH INTERLOCKED WITH UNIT TO SHUT DOWN UNIT ON HIGH WATER SIGNAL.
- ALL EXTERIOR REFRIGERANT COILS TO BE PROTECTED BY FACTORY EQUIPPED HAIL 1.4. GUARDS.
- REFRIGERANT PIPING TO BE ACR COPPER OR TYPE L COPPER. 1.5.
- 2. DUCTWORK
- 2.1. DUCTWORK TO BE GALVANIZED STEEL, SEAL CLASS B, CONSTRUCTED PER SMACNA STANDARDS.
- 2.2. 26 GA. MINIMUM UP TO 16" DUCT, 24 GA. UP TO 20", 22 GA. UP TO 24", 20 GA. UP TO 28", AND 18 GA. UP TO 36".
- TURNING VANES TO BE PROVIDED AND INSTALLED AT ALL 90° BENDS AND TEES. 2.3.
- DUCT DIMENSIONS LISTED ARE TO INTERIOR OF DUCT LINER. 2.4.
- 2.5. BALANCE DAMPERS MUST BE PROVIDED TO ALLOW ADJUSTMENT AT EACH AIR TERMINAL. 2.5.1. WHERE BRANCH TAKEOFF IS ACCESSIBLE (ABOVE LAY-IN CEILING OR EXPOSED DUCT), THE BALANCE DAMPER IS TO BE INSTALLED AT TAKEOFF. 2.5.2. WHERE TAKEOFF IS INACCESSIBLE (IN ATTIC OR SOFFIT), THE BALANCE DAMPER IS TO
- BE LOCATED SO IT IS ACCESSIBLE FROM FACE OF AIR DEVICE. HVAC CONTRACTOR RESPONSIBLE FOR ALL DUCTWORK TRANSITIONS AND FITTINGS AS 2.6.
- REQUIRED FOR FINAL CONNECTIONS TO HVAC EQUIPMENT.
- 3. INSULATION 3.1. DUCTWORK
- 3.1.1. SEE "TYPICAL DUCT INSULATION DIAGRAM" FOR INSTALLATION SPECIFIC
- REQUIREMENTS. 3.1.2. INTERNAL DUCT LINER TO BE EQUAL TO CLOSED CELL ELASTOMERIC BACTERIAL
- RESISTANT INSULATION (NON-FIBROUS) WITH IMPERVIOUS FACE. FROM FIST 30' FROM AIR HANDLER, LINER SHALL BE 2", 1¹/₂# DENSITY.
- 3.1.3. EXTERNAL DUCT WRAP TO INCLUDE VAPOR BARRIER. EQUAL TO 'JOHNS MANVILLE MICROLITE' WITH FSK JACKET.
- 3.2. REFRIGERANT PIPING
- 3.2.1. SPLIT SYSTEM (SUCTION LINE ONLY) - 1" CLOSED CELL ELASTOMERIC FOAM (EQUAL TO 'ARMAFLEX AP').
- VRV/VRF SYSTEMS (BOTH SUCTION AND HOT GAS LINES) 1 ½" EPDM (EQUAL TO 'AEROFLEX 3.3. AEROCEL AC') WITHIN CONDITIONED SPACES & 2" EDPM (EQUAL TO 'AEROFLEX AEROCEL AC') IN UNCONDITIONED SPACES, AND WITH BANDED ALUMINUM SHIELDING IN EXTERIOR SPACES.
- CONDENSATE PIPING 3.4.
- SPLIT SYSTEMS WHERE CONDENSATE PIPING IS LOCATED IN UNCONDITIONED SPACE, 3.4.1. INSULATE WITH  $\frac{1}{2}$ " ELASTOMERIC. NO INSULATION REQUIRED IN CONDITIONED SPACES.
- 3.4.2. VRV/VRF INSULATE WITH  $\frac{1}{2}$ " ELASTOMERIC.
- 4. WORKMANSHIP 4.1.
- COORDINATE WITH OTHER TRADES SO THAT HVAC EQUIPMENT AND DUCT WORK DOES NOT BLOCK REQUIRED ACCESS OR CLEARANCE TO EQUIPMENT. ALL HVAC EQUIPMENT IS TO BE INSTALLED PER MANUFACTURER'S PUBLISHED 4.2.
- RECOMMENDATIONS.
- ALL EQUIPMENT TO BE INSTALLED LEVEL AND PLUMB. 4.3.
- ROOFTOP MOUNTED RTUS TO BE INSTALLED ON CURBS PER MANUFACTURES INSTRUCTIONS. 4.4. GRADE MOUNTED RTUS, CONDENSING UNITS, AND HEAT PUMPS TO BE INSTALLED ON 4" 4.5. REINFORCED CONCRETE PAD EXTENDING 4" BEYOND EACH EDGE OF THE EQUIPMENT, OR A MANUFACTURER APPROVED PRE-MANUFACTURED BASE.
- 5. TESTING AND BALANCING 5.1.
- ALL SYSTEMS MUST BE BALANCED TO WITHIN 10% OF VALUES INDICATED ON PLAN. 5.2. HVAC CONTRACTOR TO PROVIDE WRITTEN BALANCE REPORT INCLUDING FLOW VALUES

DUCT "B" / CFM "B"

DUCT "A" x (CFM "B" / CFM "A") = "B"

VOLUME DAMPER (SEE DETAIL) -

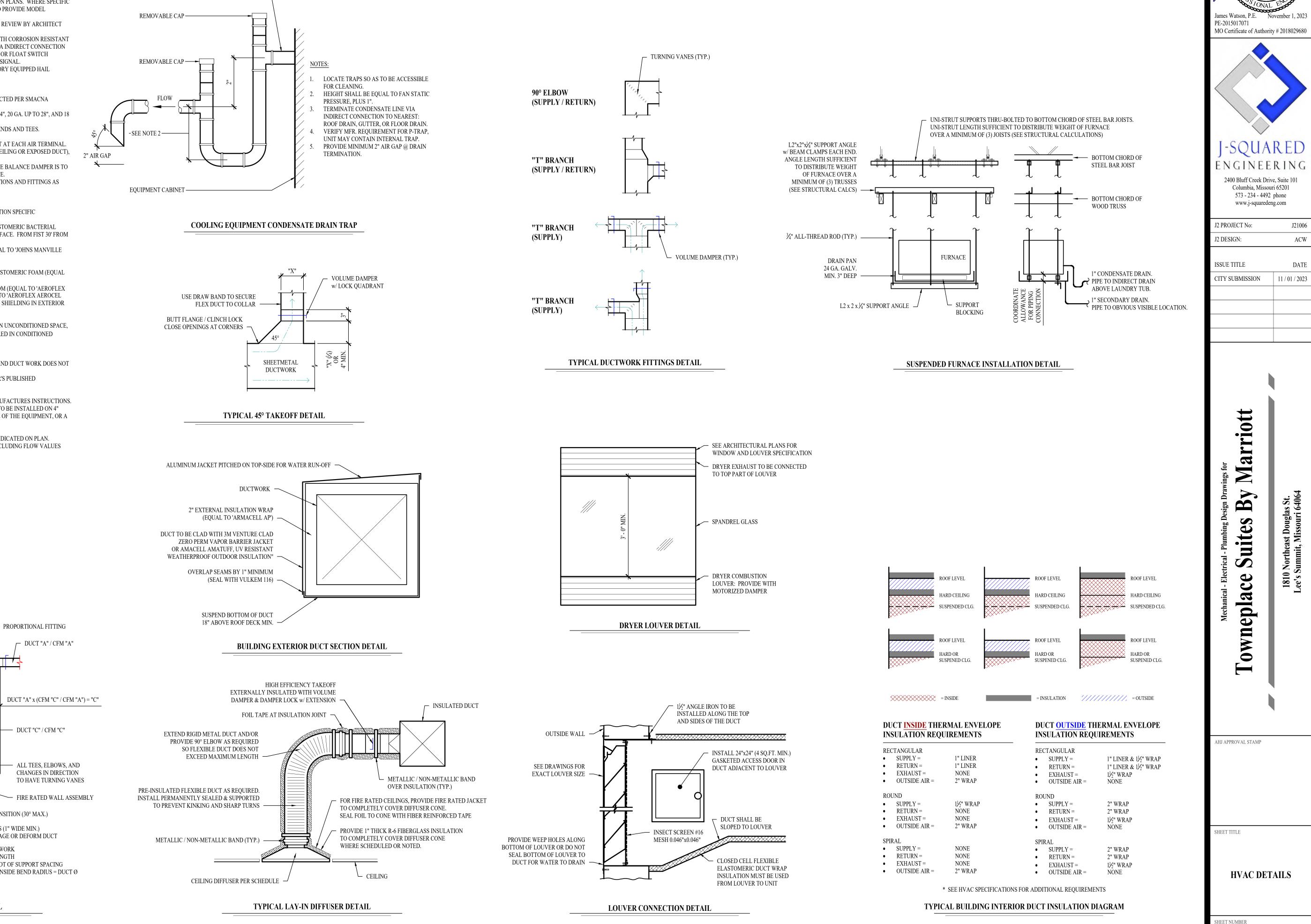
FIRE RATED DAMPER -

SUPPLY DUCT

TURNED UP

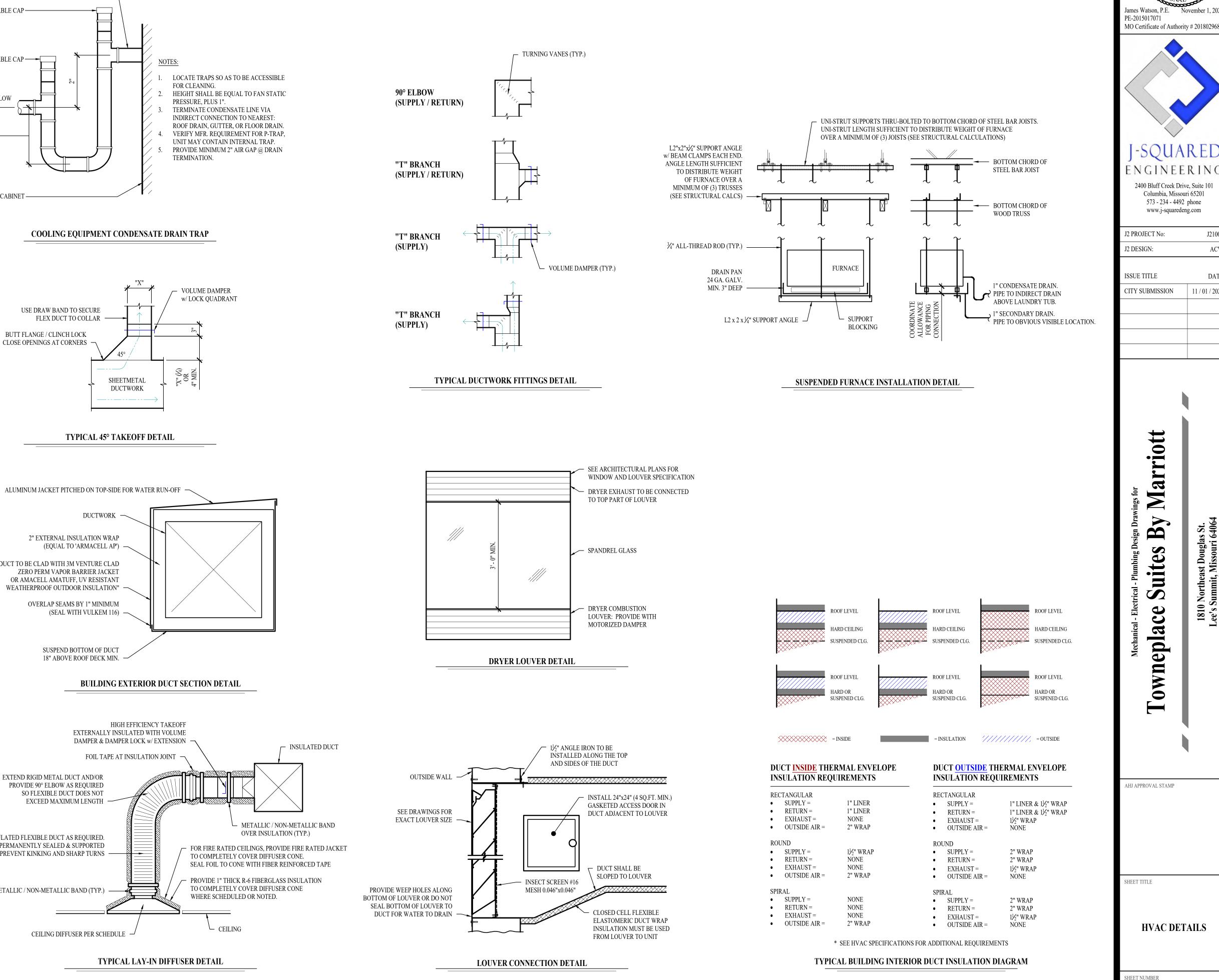
45° TAKEOFF (SEE DETAIL) -

- INDICATED ON PLAN AND ACTUAL MEASURED VALUES.
- 5.3. THIRD PARTY CERTIFIED TEST AND BALANCE NOT REQUIRED.



PIPE FULL SIZE OF UNIT

DRAIN CONNECTION -



**TYPICAL DUCTWORK DETAIL** 

- DUCT "C" / CFM "C" LOCATE ACCESS DOOR NEAR DAMPER AS INDICATED -· ALL TEES, ELBOWS, AND
  - CHANGES IN DIRECTION TO HAVE TURNING VANES

- PROPORTIONAL FITTING

– DUCT "A" / CFM "A"

- FIRE RATED WALL ASSEMBLY └── ECCENTRIC TRANSITION (30° MAX.)
- SUPPORT STRAPS (1" WIDE MIN.) MUST NOT DAMAGE OR DEFORM DUCT
- FLEXIBLE DUCTWORK 8ft MAX. LENGTH
- 1/2" PER FOOT OF SUPPORT SPACING • MINIMUM INSIDE BEND RADIUS = DUCT  $\emptyset$ SUPPLY DIFFUSER (SEE DETAIL) -

NUMBER

-20150170

		MANUFACTURER	MANUFACTURER MODEL NUMBER	IUIAL	HEATING	(IA: 80	COOLING       (IA: 80 DB/67 WB, OA: 95 DB)     ELECTRICAL       SENSIBLE     TOTAL CAP.     MIN EFF.		ELECTRICAL		NOTE	
TAG	EQUIPMENT DESCRIPTION	(OR EQUAL)	(OR EQUAL)	AIRFLOW (CFM)	ELECTRIC	SENSIBLE					NOTES	
				(54.14)	(KW)	(KBTU)	(KBTU)	(EER)	VOLTS/PH	MCA	ОСР	
PTAC-1	PACKAGEDTERMINALAC	FRIEDRICH	PDF07K3SG	315 - 255	3.5	6.2	7.2	13.0	208/1	16	20-2	1, 2, 3, 4
PTAC-2	PACKAGED TIRMINAL AC	FRIEDRICH	PDE09K3SG	355 - 275	3.5	8.0	9.4	12.1	208/1	16	20-2	1, 2, 3, 4
2. 3.	PROVIDE & INSTALL ALL NECESSA WITH WALL SLEEVE TO EXTEND 8" WITH #PXSB23020 UNIT SUBBASE & WITH ARCHITECTURAL SERIES EXT	- 10" FROM FACE OF EXI & #PXD8 DISCONNECT SW	ERIOR WALL /ITCH		ESTROOM MAN	IAGEMENT SYS	TEM (GRMS) & I	BUILDING AU	L IOMATION SYS	STEM (BAS)		

5. WITH CONDENSATION PIPING KIT

The Cl	EQUIPMENT	SIZE		TOTAL	OA AIRFLOW	HEATING	(IA: 80 D)	COOLING B/67 WB, O/	A: 95 DB)		L	NOTE	
TAG	DESCRIPTION	(TONS)	ORIENTATION	AIRFLOW (CFM)	MAX/MIN (CFM)	ELECTRIC (KW)	SENSIBLE (KBTU)	TOTAL (KBTU)	MIN EFF. (SEER)	VOLTS/PH	МСА	OCP	NOTE
AHU-1	AIR HANDLER	1.5	UPFLOW	600	-	5	-	-	-	208/1	33	35-2	1,3
AHU-2	AIR HANDLER	1.5	UPFLOW	600	-	5	-	-	-	208/1	33	35-2	2, 3
AHU-3	AIR HANDLER	4.0	UPFLOW	1600	-	10	-	-	-	208/1	51	60-2	2, 3
AHU-4	AIR HANDLER	2.0	UPFLOW	800	-	5	-	-	-	208/1	33	35-2	2, 3
AHU-5	AIR HANDLER	3.0	HORIZONTAL	1200	-	10	-	-	-	208/1	51	60-2	2, 3
AHU-6	AIR HANDLER	5.0	HORIZONTAL	2000		15		-	-	208/1	51, 33	35-2, 60-2	2, 3
AHU-7	AIR HANDLER	4.0	HORIZONTAL	1600	-	10	-	-	-	208/1	51	60-2	2, 3
AHU-8	AIRHANDLER	1.5	HORIZONTAL	600	-	5	-	-	-	208/1	33	35-2	1, 3
AHU-9	AIR HANDLER	2.5	HORIZONTAL	1000	-	10	-	-	-	208/1	51	60-2	1, 3
AHU-10	AIRHANDLER	2.0	UPFLOW	800	-	5	-	_	-	208/1	33	35-2	2, 3
AHU-11	AIR HANDLER	3.0	HORIZONTAL	1200	-	10	-	-	-	208/1	51	60-2	1, 3
CU-1	CONDENSING UNIT	1.5	-	-	-	-	13.2	17.8	13	208/1	12	20	4, 5
CU-2	CONDENSING UNIT	1.5	-	-	-	-	13.2	17.8	13	208/1	12	20	4, 5
CU-3	CONDENSING UNIT	4.0	-	-			35.4	46.0	13	208/1	27	45	4, 5
CU-4	CONDENSING UNIT	2.0	-	-	-	-	17.2	23.0	13	208/1	18	30	4, 5
CU-5	CONDENSING UNIT	3.0	-	-	-	-	24.5	33.6	13	208/1	19	30	4, 5
CU-6	CONDENSING UNIT	5.0	-	-	-	-	41.0	57.0	13	208/1	33	50	4, 5
CU-7	CONDENSING UNIT	4.0	-	-	÷	-	35.4	46.0	13	208/1	27	45	4, 5
CU-8	CONDENSING UNIT	1.5		-	-	-	13.2	17.8	13	208/1	12	20	4, 5
CU-9	CONDENSING UNIT	2.5	-	-	-	-	21.5	28.4	13	208/1	17	25	4, 5
CU-10	CONDENSING UNIT	2.0	-	•	*	~	17.2	23.0	13	208/1	18	30	4, 5
CU-11	CONDENSING UNIT	3.0	-		-	-	24.5	33.6	13	208/1	19	30	4, 5
2.	PROVIDE & INSTALL 7 PROVIDE & INSTALL D INCLUDE CORROSION 1	IRECT DIGIT.	AL SENSOR CONNE	CTED TO BA	S WITH TEMI	PERATURE &	HUMIDITY RI						
4.	WITH FACTORY HAIL LOW AMBIENT PACKA	GUARD.		•								¹ 80	

MINI-SPLIT SYSTEM SCHEDULE												
TAG	EQUIPMENT	SIZE	ORIENTATION	TOTAL AIRFLOW	HEATING (IA:70 DB, OA:17 DB)	(IA:	COOL 80 DB/67 WI	ING B, OA: 95 DB)		ELECTRICA	Ļ	NOTES
	DESCRIPTION	(TONS)		(CFM) TOTAL S		SENSIBLE (KBTU)	TOTAL (KBTU)	EFFICIENCY (SEER)	VOLTS/PH	МСА	ОСР	
FCU-1	FAN-COIL UNIT	2.0	WALL-MOUNT	700	-	-	-	-	(POW	FRED THRU	HP-1)	1,3,4
HP-1	HFAT PUMP	2.0	STANDARD	-	18.3	18.5	24.0	21	208/1	14	25-2	2,5
NOTES:		i	I	I		1			<u>I</u> I		ł	<u> </u>

1. PROVIDE & INSTALL DIRECT DIGITAL SENSOR CONNECTED TO BAS WITH TEMPERATURE & HUMIDITY READOUTS/SETPOINTS. 2. WITH WIND BAFFLE.

3. WITH FIELD INSTALLED CONDENSATE PUMP. 4. EQUAL TO MITSUBISHI #PKA-A24KA7

5. EQUAL TO MITSUBISHI #PUZ-A24NHA7

TAG	SERVICE	MANUFACTURER (OR EQUAL)	MOĐEL (OR EQUAL)	SIZE	COLO FINE
El	EXHAUST	PRICE	530	A S INDICATED	WHI
E2	EIIXAUST	PRICE	80	AS INDICATED	WIII
1/1	ΟΔ	-	_	-	-
Rl	RETURN	PRICE	80	AS INDICATED	WHI
R2	RETURN	PRICE	530	AS INDICATED	WHI
R3	RETURN	PRICE	SDR	48"L x(8) SLOT	WIII
SI	SUPPLY	PRICE	520	8x4	WHI
S2	SUPPLY	PRICE	SPD	24x24	W111
S3	SUPPLY	PRICE	SDS100	36"L x(1) SLOT	WHI
84	SUPPLY	PRICE	SDS100	48°L x(4) SLOT	WHI
OTES:				:	

JAMES WATSO NUMBE PE-201501	RR 7071
J-SQUA	RED
ENGINEE 2400 Bluff Creek Drive Columbia, Missour 573 - 234 - 4492 www.j-squareden	RING e, Suite 101 i 65201 phone
J2 PROJECT No:	J21006
J2 DESIGN:	ACW
ISSUE TITLE CITY SUBMISSION	DATE 11 / 01 / 2023
or larriott	

**Towneplace Suites By** 

AHJ APPROVAL STAMP

SHEET TITLE

SHEET NUMBER

HVAC SCHEDULES

**M601** 

1810 Northeast Douglas St. Lee's Summit, Missouri 64064

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Mechanical - Electrical

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ΠE	WITH SDB PLENUM
ITE	WITH SDB PLENUM
ON	

		BUILDING CON	TROLS SYSTE	M SCHEDU	LE	·					
	EQUIPMENT DETAILS		CONTROLS INTERFACE								
EQUIPMENT (SEE PLANS)	DESCRIPTION	LOCATION	BUILDING AUTOMATION SYSTEM (BAS)	GUESTROOM MANAGEMENT SYSTEM (GRMS)	GUESTROOM CONTROLLER	GUES TROOM CONTROLLER	CONTROLS INTEGRATED TO BAS	LOCAL OCCUPANT CONTROL	DISPLAY (TEMP / RH)	TEMPERATURE CONTROL	HUMIDII CONTRO
AHU-1 / CU-1	AIR HANDLING UNIT / REMOTE CONDENSING UNIT	MECHANICAL ROOM	X	÷	- 	-	X	NO	NO	X	-
AHU-2 / CU-2	AIR HANDLING UNIT / REMOTE CONDENSING UNIT	FLEX SPACE	Х		-	-	X	NO	YES	X	Х
AHU-3/CU-3	A IR HANDLING UNIT / REMOTE CONDENSING UNIT	COMMUNITY SPACE	Х	<u> </u>		<u> -</u>	X	NO	NO	X	Х
AHU-4/CU-4	AIR HANDLING UNIT / REMOTE CONDENSING UNIT	CORRIDORS	Х	-	-	-	X	NO	YES	X	X
AHU-5/CU-5	AIR HANDLING UNIT / REMOTE CONDENSING UNIT	KITCHEN	X	-	-	-	X	NO	YES	X	Х
AHU-6/CU-6	AIR HANDLING UNIT / REMOTE CONDENSING UNIT	FTINESS CENTER	Х	-	-	-	X	NO	YES	X	Х
AHU-7/CU-7	AIR HANDLING UNIT / REMOTE CONDENSING UNIT	COMMUNITYSPACE	Х	-	-	-	Х	NO	YES	X	Х
AHU-8/CU-8	AIR HANDLING UNIT / REMOTE CONDENSING UNIT	WORK ROOM	X		_	_	X	64° - 77°	NO	X	
AHU-97 CU-9	AIR HANDLING UNIT / REMOTE CONDENSING UNIT	MERTING ROOM	Х				X	64° - 77°	YES	X	Х
AHU-107 CU-10	AIR HANDLING UNIT / REMOTE CONDENSING UNIT	CORRIDORS	X	-	-	-	X	NO	YES	X	Х
AHU-11/CU-11	AIR HANDLING UNIT / REMOTE CONDENSING UNIT	BREAK / LAUNDRY	X	±	<u>.</u>	<u> </u>	X	NO	NO	X	
FCU-1	MINI-SPLIT FAN COIL UNIT	I.T. ROOM (FLOORS 2, 3, & 4)	X	-	-	-	X	NO	YES	X	-
HP-1	MINI-SPLIT HEAT PUMP	LT. ROOM (FLOORS 2, 3, & 4)	X	<del>.</del>	-	-	X	NO	YES	X	-
DOAS-1	DEDICATED OUTSIDE AIR SYSTEM WITH ENERGY RECOVERY	ROOF (WEST)	X			-	X	NO	YES	X	X
DOAS-2	DEDICATED OUTSIDE AIR SYSTEM WITH ENERGY RECOVERY	ROOF (EAST)	X	-	-	-	Х	NO	YES	Х	X
PTAC-1	PACKAGED TERMINAL AIR CONDITIONER	GDEST ROOMS	X	x	X	X	X	64° - 77°	X	X	X
PFAC-2	PACKAGED TERMINAL AIR CONDITIONER	GUEST ROOMS	X	Х	X	Х	X	64° - 77°	X	X	X
WH-1	WATER HEATER (MULTIPLE)	MECHANICAL ROOM	X	-	-	-	X	YES	X	X	-
RP-1	HOT WATER RECIRCULATION PUMP	MECHANICAL ROOM	X	π.		-	X	YES	X	X	
HWMS-1	HOT WATER MIXING STATION	MECHANICAL ROOM	X	••••••••••••••••••••••••••••••••••••••	-	-	X	YES	Х	X	
NTERIOR LIGHTING	LIGHTING CONTROL SYSTEM	SEE LIGHTING CONTROL SCHEDULE	X	_	_	_	X		u	-	-
XTERIOR LIGHTING	LIGHTING CONTROL SYSTEM	SEE LIGHTING CONTROL SCHEDULE	X		-	-	Х	-	-	-	-

#### BUILDING AUTOMATION SYSTEM (BAS) NOTES:

. BUILDING A UTOMATION SYSTEM TO CONSIST OF HIGH-SPEED, PEER-TO-PEER NETWORK OF DDC CONTROLLERS, A CONTROL SYSTEM SERVER, AND WEB-BASED OPERATOR INTERFACE. 2. CONTROL PANELS CONTAINING OUTSTATIONS SHALL HAVE FACILITY OF EXTERNAL CONNECTION FOR LAPTOP CONNECTION TO ENABLE SET POINT ADJUSTMENT LOCALLY. 3. ANALOG INPUTS SHALL HAVE AT LEAST ONE HIGH AND ONE LOW ALARM SETTING TO PROVIDE ALARM MONITORING. ALL COMMANDS SHALL HAVE AT LEAST ONE STATUS POINT. PROVIDE FULL COLOR INTERACTIVE GRAPHICS TO ALLOW POINTS TO BE DISPLAYED, TOGETHER WITH CONTROL SET POINTS AND REAL TIME VALUES.

I. SYSTEM SHALL HAVE A BILITY FOR ON/OFF SITE NETWORKING, AND FOR INTERFACE WITH GUESTROOM MANAGEMENT SYSTEM AND GUESTROOM CONTROLLERS. 5. SYSTEM SHALL INCLUDE UNINTERRUPTED POWER SUPPLY SYSTEM TO PROVIDE 4 HOURS OF SYSTEM RUNTIME IN THE EVENT OF POWER FAILURE. 5. SYSTEM SHALL INCLUDE A SUPERVISOR, COMPRISING CENTRAL PROCESSOR UNIT (CPU), COLOR MONITOR, KEYBOARD, AND LATEST WINDOW'S OPERATING SYSTEM AND LATEST BAS OPERATIONAL SOFTWARE, INCLUDING FULL GRAPHICAL INTERFACE. 10% SPARE OUTSTATION CAPACITY SHALL BE PROVIDED BACKED UP BY EQUIVALENT SPARE MEMORY WITHIN CPU. L SYSTEM COMPUTER: INDUSTRY-STANDARD HARDWARE SHALL MEET OR EXCEED DDC SYSTEM MANUFACTURER'S RECOMMENDED SPECIFICATIONS. HARD WARE SHALL HAVE A HARD DISK WITH SUFFICIENT MEMORY TO STORE ALL REQUIRED OPERATOR WORKSTATION SOFTWARE, A DDC DATABASE AT LEAST TWICE THE SIZE OF THE DELIVERED SYSTEM DATA BASE, AND ONE YEAR OF TREND DATA BASED ON POINTS SPECIFIED TO BE TRENDED AT THEIR SPECIFIED TREND INTERVALS. 6.2. SYSTEM CONFIGURATION: MINIMUM HARDWARE CONFIGURATION SHALL INCLUDE DUAL OR QUAD-CORE PROCESSOR, 6GB RAM, 500GB HARD DISK PROVIDING DATA AT 3.0 GB/SEC, 16x DVD-RW DRIVE, AND SERIAL, PARALLEL, AND NETWORK COMMUNICATION PORTS AND CABLES AS REQUIRED FOR PROPER DDC SYSTEM OPERATION.

7. SYSTEM SOFTWARE SOFTWARE BASED ON SERVER/THIN CLIENT ARCHITECTURE, DESIGNED A ROUND OPEN STANDARDS OF WEB TECHNOLOGY. CONTROL SYSTEM SERVER SHALL BE ACCESSED USING WEB BROWSER OVER THE CONTROL SYSTEM NETWORK, AND THE INTERNET. THE THIN-CLIENT ARHICTECTURE PROVIDES OPERATORS COMPLETE A CCESS TO CONTROL SYSTEM TO ACCESS GRAPHICS, POINT DISPLAYS, AND TRENDS, CONFIGURE TRENDS, CONFIGURE POINTS AND CONTROLLERS, OR TO DOWNLOAD PROGRAMMING INTO THE CONTROLLERS. 7.1. OPERATING SYSTEM: WEB SERVER OR WORKSTATION SHALL HAVE AN INDUSTRY-STANDARD PROFESSIONAL-GRADE OPERATING SYSTEM THAT MEETS OR EXCEEDS THE DDC SYSTEM MANUFACTURERS MINIMUM REQUIREMENTS FOR THEIR SOFTWARE. 7.2. SYSTEM GRAPHICS: OPERATOR INTERFACE SOFTWARE SHALL BE GRAPHICALLY BASED THAT CAN BE MODIFIED OR EDITED BY THE END USER WITH MINIMAL TRAINING. SOLUTIONS THAT REQUIRE VENDOR SUPPORT ARE UNNACCEPTABLE. INTERFACE SHALL INCLUDE AT LEAST ONE GRAPHIC PER PIECE OF EQUIPMENT OR OCCUPIED ZONE, GRAPHICS FOR EACH CHILLED WATER AND HOT WATER SYSTEM, AND GRAPHICS THAT SUMMARIZE CONDITIONS ON EACH FLOOR. INDICATE THERMAL ZONE COMFORT ON FLOOR PLAN SUMMARIZE CONDITIONS ON EACH FLOOR. INDICATE THERMAL ZONE COMFORT ON FLOOR PLAN SUMMARIZE CONDITIONS ON EACH FLOOR. INDICATE THERMAL ZONE COMFORT ON FLOOR PLAN SUMMARIZE CONDITIONS ON EACH FLOOR. INDICATE THERMAL ZONE COMFORT ON FLOOR PLAN SUMMARIZE CONDITIONS ON EACH FLOOR. INDICATE THERMAL ZONE COMFORT ON FLOOR PLAN SUMMARY GRAPHICS THAT SUMMARIZE CONDITIONS ON EACH FLOOR. INDICATE THERMAL ZONE COMFORT ON FLOOR PLAN SUMMARY GRAPHICS THAT SUM SUM SUM SUB SUM SUM SUB SUM SUM SUB SU SETPOINT.

7.3 SYSTEM PROTOCOL: SYSTEM SHALL USE BACNET OPEN NON-PROPRIETARY PROTOCOL FOR COMMUNICATION TO OPERA TOR WORKSTATION OR WEB SERVER AND FOR COMMUNICATION BETWEEN CONTROL MODULES. I/O POINTS, SCHEDULES, SETPOINTS, TRENDS, AND ALARMS SPECIFIED IN 'SEQUENCE OF OPERATIONS FOR HVAC CONTROLS' SHALL BE BACNET OBJECTS. 8. SYSTEM COMMUNICATION: WEB SERVER OR WORKSTATION AND CONTROLLERS SHALL COMMUNICATE USING BACNET PROTOCOL AND BACKBONE SHALL COMMUNICATE USING ISO 8802-3 (FHTERNET) DATA LINK/PHYISCAL LAYER PROTOCOL AND BACKET/IP ADDRESSING AS SPECIFIED IN ANSI/A SHRAE 135-

2016, BACNET ANNEX J. 9. MANUFACTURERS THAT CURRENTLY PROVIDE ACCEPTABLE PRODUCTS INCLUDE (BUT ARE NOT LIMITED TO): AUTOMATED LOGIC, TRANE, SIEMENS, SCHNEIDER ELECTRIC, JOHNSON, HONEYWELL.

PER MANUFACTURERS' AND ENGINEERS' SPECIFICAITONS, RATINGS, AND CAPACITIES. HIGHLIGHTED MANUFACTURER CUTSHEETS, RECORD 'A S-BUILT' DOCUMENTS IN PDF FORMAT, AND WARRANTIES ON ALL EQUIPMENT. 11. SYSTEM SHALL MONITOR/CONTROL ALL A VAILABLE UTILIZED POINTS FOR ALL EQUIPMENT SHOWN ABOVE. WATER METER AND SUBMETERS, GAS METER

#### GUES TROOM MANAGEMENT SYSTEM (GRMS) NOTES:

1. GUESTROOM MANAGEMENT SYSTEM SHALL BE FULLY NETWORKED AND INTEGRATE WITH BAS, INCLUDE HOTEL OPERATOR CONSOLE AT RECEPTION DESK, SYSTEM MAY BE WIRED OR WIRELESS. 2. GUESTROOM MANAGEMENT SYSTEM INTEGRATOR IS REQUIRED FOR PROPER SYSTEM FUNCTION. 2.1 GRMS SYSTEM INTEGRATOR SHALL DEMONSTRATE ABILITY TO INTEGRATE ALL ASPECTS OF GUESTROOM FUNCIONALITY INCLUDING HVAC, RFID LOCK, LIGHTING CONTROLS, AND OTHER GUEST AMENITIES AS REQUIRED. 2.2 GRMS SYSTEM INTEGRATOR SHALL ENSURE THAT ALL SERVER-TO-SERVER INTERFACES ARE ESTABLISHED AND OPERATIONAL FOR COMPLETE INTER-OPERABILITY BETWEEN GUESTROOM FUNCTIONS AND BAS AND GRMS. L3 GRMS SYSTEM INTEGRATOR SHALL OFFER FULL MAINTENANCE AND SERVICE AGREEMENT FOR PROJECT. 3. GUESTROOM MANAGEMENT SYSTEM MANUFACTURERS SHALL CONFORM TO THE PERFORMANCE CRITERIA ABOVE, MANUFACTURERS THAT CURRENTLY PROVIDE A CCEPTABLE PRODUCTS INCLUDE (BUT ARE NOT LIMITED TO): TELKONET, INCCOM (HONEYWELL), LUTRON, SCHNEIDER ELECTRIC, INTEREL.

#### GUESTROOM CONTROLLER SYSTEM NOTES:

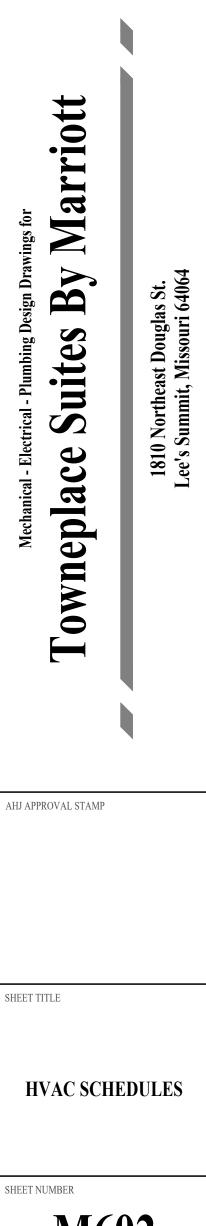
I. GUESTROOM CONTROLLER SHALL DETERMINE OCCUPANCY TO DETERMINE ROOM MANAGEMENT SEQUENCE. 1.1 GUESTROOM CONTROLLER SHALL BE LOCATED ON GUESTROOM SIDE OF BATHROOM WALL SUCH THAT OCCUPANCY SENSOR FACES INTO SLEEPING AREA. 1.2. GUESTROOM CONTROLLER SHALL ALLOW FOR OCCUPANCY BASED MASTER LIGHTING RELAY CONTROL AND INTEGRATE WITH GUESTROOM ENTRYDOOR LOCK. KEY CARD SLOTS SHALL NOT BE ALLOWED. 1.3 GUESTROOM CONTROLLER SHALL CONTROL HVAC SYSTEM, HUMIDITY AND GUESTROOM LIGHTING.

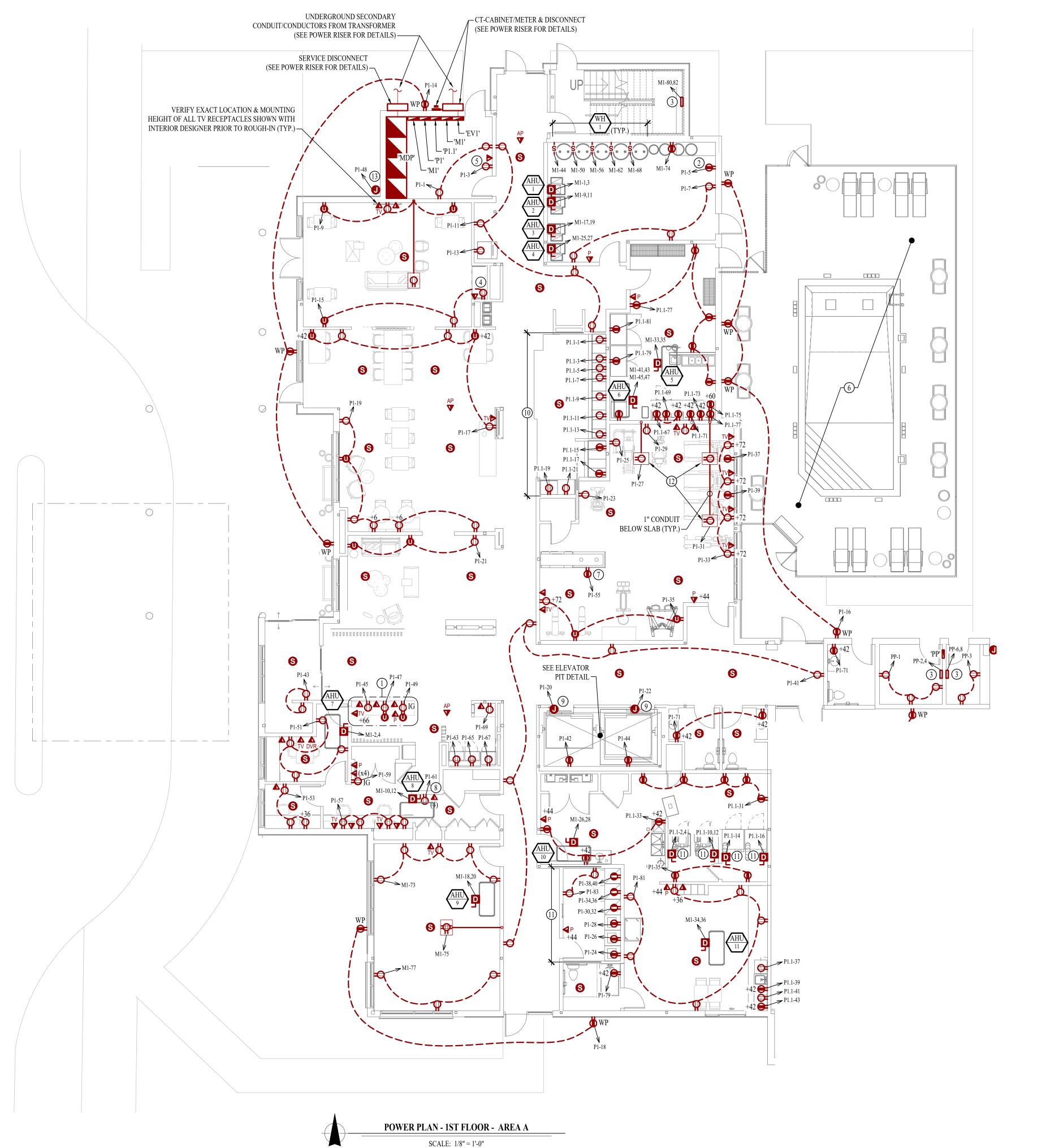
10. ACCEPTANCE TESTING: PRIOR TO OCCUPANCY, A CCEPTANCE TESTING MUST BE PERFORMED BY A THIRD-PARTY ACCEPTANCE OR COMMISSIONING A GENT, NOT CONNECTED WITH PRIME, MECHANICAL, OR ELECTRICAL CONTRACTOR. 10.1 ACCEPTANCE TESTING MUST TEST, VERIFY, AND DOCUMENT FUNCTIONAL PERFORMANCES, ADJUSTMENTS, SETTINGS, CALIBRATION, AND PROGRAMMING OF ALL SYSTEMS, EQUIPMENT AND DEVICES, FURNISHED AND INSTALLED AS PART OF BUILDING DESIGN TO ENSURE PROPER AND EFFICIENT OPERATION

10.2 ACCEPTANCE TESTING LEVEL: AS DEFINED BY ASHRAE GUIDELINE 202-2018 (COMMISSIONING PROCESS) AND INCLUDE REQUIRED PRE-START, START-UP, AND VERIFICATION CHECKLISTS. ADDITIONAL DOCUMENTATION WATER TEST AND BALANCE REPORTS, OPERTING AND MAINTENANCE MANUALS,

12. SYSTEM SHALL MONITOR/CONTROL THE FOLLOW CRITICAL NON-HVAC SYSTEMS: OUTDOOR AIR TEMPERATURE, OUTDOOR RELATIVE HUMIDITY, BUILDING STATIC PRESSURE TO REGULATE OA, INTERIOR/EXTERIOR LIGHTING AND CONTROLS, ELECTRICAL METER AND SUBMETERS,

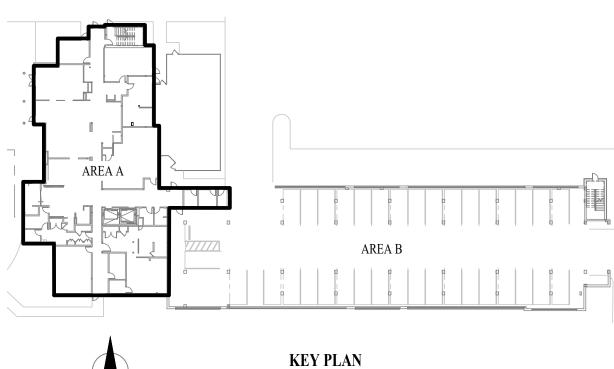








DETAILS.



## POWER PLAN SYMBOL LEGEND

FUWER FLAN SI	MDUL LEGEND
	CIRCUIT WIRING
──> PX-XX	CIRCUIT TAG
J	JUNCTION BOX
XX +42	RECEPTACLE INDICATES MOUNTING HEIGHT TO BOTTOM OF BOX
	(STANDARD @ 18" AFF UNLESS NOTED OTHERWISE)
	"WP" = WEATHERPROOF OUTDOOR RECEPTACLE "AW" = ABOVE WINDOW RECEPTACLE "AC" = ABOVE CEILING RECEPTACLE "EX" = EXISTING RECEPTACLE TO REMAIN "IG" = ISOLATED GROUND
P	GFCI DUPLEX CONVENIENCE RECEPTACLE
Ŷ	208V RECEPTACLE
#	QUADPLEX CONVENIENCE RECEPTACLE
Ŷ	USB OUTLET WITH USB-A & USB-C CHARGING PORT
V	DATA / PHONE JACK BOX WITH 1" CONDUIT & PULL STRING UP TO CEILING SPACE (STANDARD @ 18" AFF UNLESS NOTED OTHERWISE) TV = TELEVISION, P = PHONE
AP V	WIRELESS ACCESS POINT, CEILING MOUNTED
Φ	FLOOR RECEPTACLE
V	FLOOR DATA
D	DISCONNECT
ED-1	FUSED DISCONNECT
FS-J	FUSED SWITCH
SD	STARTER / DISCONNECT
5	SPEAKER AS PART OF BACKGROUND MUSIC (BGM) SYSTEM; REFER TO BRAND STANDARDS FOR SYSTEM DETAILS & REQUIREMENTS

## **POWER PLAN GENERAL NOTES:**

1. SEE SHEET E501 FOR ADDITIONAL ELECTRICAL NOTES, DETAILS, & SCHEDULES.

#### **POWER PLAN KEY NOTES:**

1 POWER, DATA, PHONE, ETC. LOCATED WITHIN MILLWORK OF WELCOME DESK. COORDINATE EXACT LOCATION/REQUIREMENTS WITH WELCOME DESK SUPPLIER/INSTALLER. REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL DETAIL/REQUIREMENTS. PROVIDE CONDUIT BACK TO COMPUTER/COMMUNICATIONS FOR ALL SYSTEMS. COORDINATE PLACEMENT OF ELECTRICAL DEVICES, DIFFUSERS, ACCESS PANELS, SYSTEMS INTERFACE AND INTERIOR GRAPHICS SO AS NOT TO ENCROACH ON KEY FOCAL ELEMENTS, COORDINATE PLUG HEIGHT WITH EQUIPMENT.

(2) POWER FOR LANDSCAPE IRRIGATION; COORDINATE EXACT LOCATION & REQUIREMENTS WITH LANDSCAPE CONTRACTOR.

(3) PROVIDE & INSTALL 3kW ELECTRIC WALL HEATER EQUAL TO QMARK #AWH4404F.

(4) POWER & DATA RECEPTACLE LOCATED BELOW WITHIN CABINET; PROVIDE GROMMET IN COUNTERTOP FOR ACCESS.

(5) POWER FOR FIRE ALARM CONTROL PANEL (FACP); COORDINATE WITH FIRE ALARM CONTRACTOR. (6) PROVIDE EQUIPOTENTIAL BONDING OF POOL & DECK AREA PER NEC 680.26. SEE ELECTRICAL

(7) COORDINATE LOCATION OF POWER FOR HYDRATION STATION TO BE CONCEALED BY MILLWORK. (8) POWER/DATA FOR TIMECLOCK; COORDINATE WITH EQUIPMENT PROVIDER.

(9) POWER FOR SMOKE CURTAIN; SEE ARCHITECTURAL DETAILS.

(10) PROVIDE DEDICATED RECEPTACLE FOR ALL EQUIPMENT; COORDINATE EXACT LOCATIONS & REQUIREMENTS WITH EQUIPMENT PROVIDER. COORDINATE ELECTRICAL OUTLETS WITH FOOD SERVICE EQUIPMENT TO ENSURE PROPER ALIGNMENT BETWEEN APPLIANCES AND OUTLETS; OUTLETS TO BE PLACED HORIZONTALLY CENTERED ON GROUT LINE AS INDICATED ON ELEVATIONS. REFER TO ARCHITECTURAL ELEVATIONS FOR ADDITIONAL DETAILS.

(1) POWER FOR LAUNDRY EQUIPMENT; VERIFY EXACT LOCATION & REQUIREMENTS WITH EQUIPMENT PROVIDER.

(12) COORDINATE EXACT LOCATION OF FLOOR BOXES WITH EQUIPMENT SUPPLIER (TYP.)

(13) POWER FOR 120V SOLENOID/GAS VALVE, SEE DETAILS ON THIS SHEET FOR ADDITIONAL INFORMATION. WIRE THRU 'LCPC' RELAY #2. INCLUDE EMERGENCY STOP PUSH-BUTTON EQUAL TO STI-USA #SS2079ES-EN TO OPEN CIRCUIT TO ELECTRICALLY HELD GAS SOLENOID TO TURN OFF GAS SUPPLY TO FIREPIT. MOUNT IN OBVIOUS VISIBLE LOCAITON. COORDINATE WITH PLUMBING CONTRACTOR.

James Watson, P.E. November 1, 2023 PE-2015017071 MO Certificate of Authority # 2018029680 J-SQUARED ENGINEERING 2400 Bluff Creek Drive, Suite 101 Columbia, Missouri 65201 573 - 234 - 4492 phone www.j-squaredeng.com J2 PROJECT No: J21006 J2 DESIGN: ACW ISSUE TITLE DATE CITY SUBMISSION 11 / 01 / 2023



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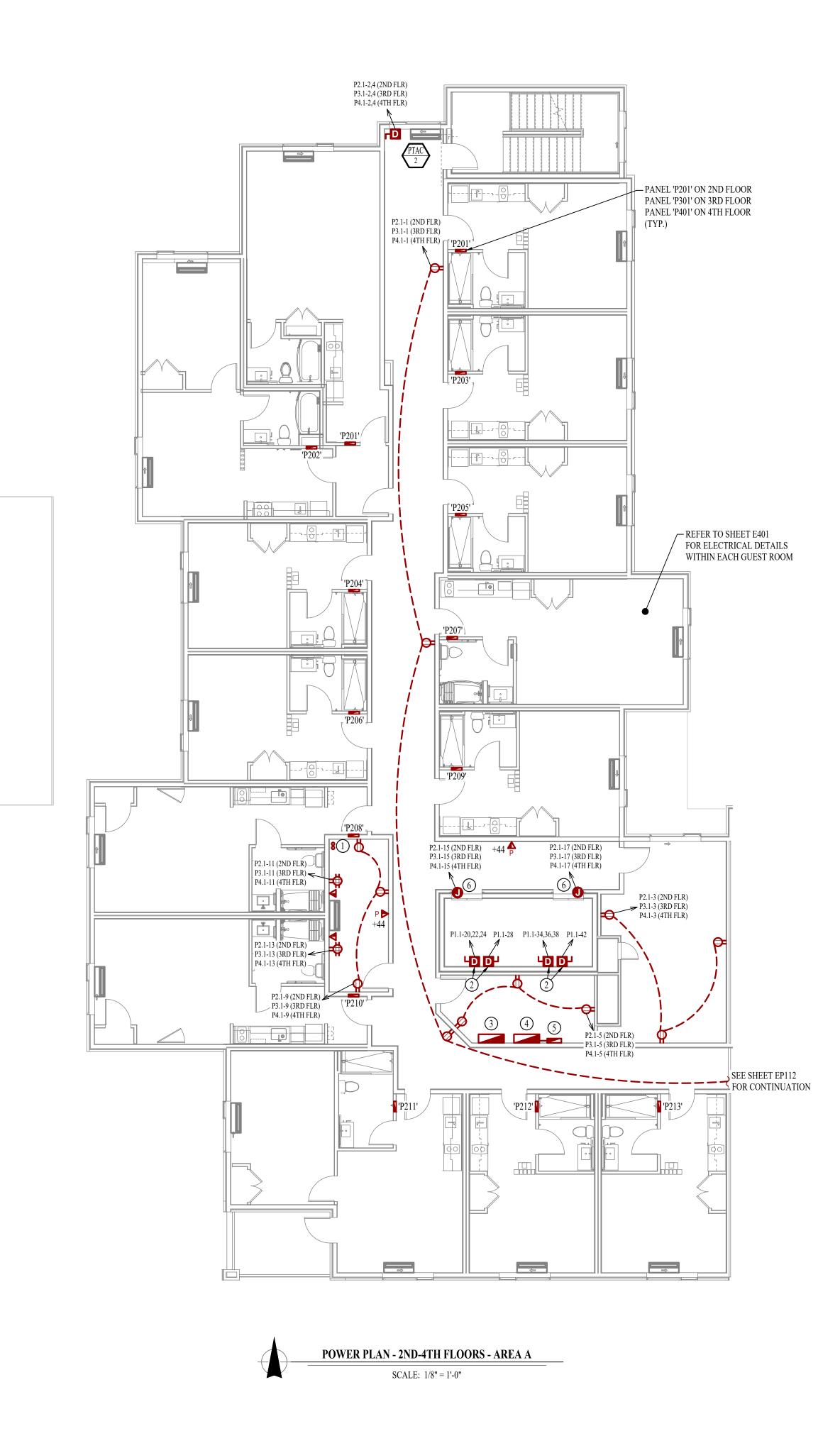
SHEET TITLE

**POWER PLAN -**1ST FLOOR -AREA A

SHEET NUMBER



SCALE: 1" = 50 ft



## POWER PLAN SYMBOL LEGEND

	CIRCUIT WIRING
——> PX-XX	CIRCUIT TAG
J	JUNCTION BOX
XX +42	RECEPTACLE - INDICATES MOUNTING HEIGHT TO BOTTOM OF BOX (STANDARD @ 18" AFF UNLESS NOTED OTHERWISE)
	<ul> <li>"WP" = WEATHERPROOF OUTDOOR RECEPTACLE</li> <li>"AW" = ABOVE WINDOW RECEPTACLE</li> <li>"AC" = ABOVE CEILING RECEPTACLE</li> <li>"EX" = EXISTING RECEPTACLE TO REMAIN</li> <li>"IG" = ISOLATED GROUND</li> </ul>
P	GFCI DUPLEX CONVENIENCE RECEPTACLE
Ŷ	208V RECEPTACLE
<del>••</del>	QUADPLEX CONVENIENCE RECEPTACLE
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V	FLOOR DATA
Dh	DISCONNECT
FD	FUSED DISCONNECT
FS-J	FUSED SWITCH
SD-	STARTER / DISCONNECT
S	SPEAKER AS PART OF BACKGROUND MUSIC (BGM) SYSTEM;

REFER TO BRAND STANDARDS FOR SYSTEM DETAILS & REQUIREMENTS

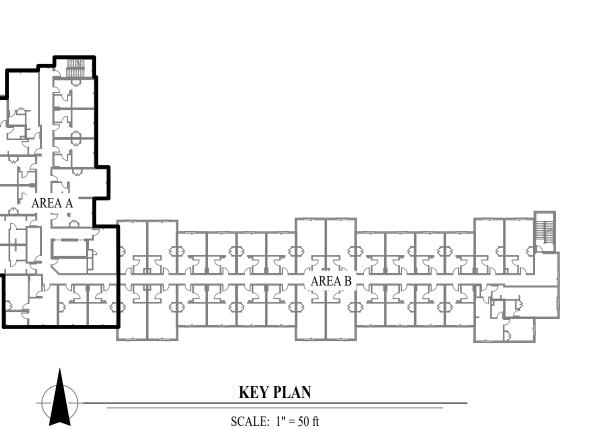
## POWER PLAN GENERAL NOTES:

1. SEE SHEET E501 FOR ADDITIONAL ELECTRICAL NOTES, DETAILS, & SCHEDULES.

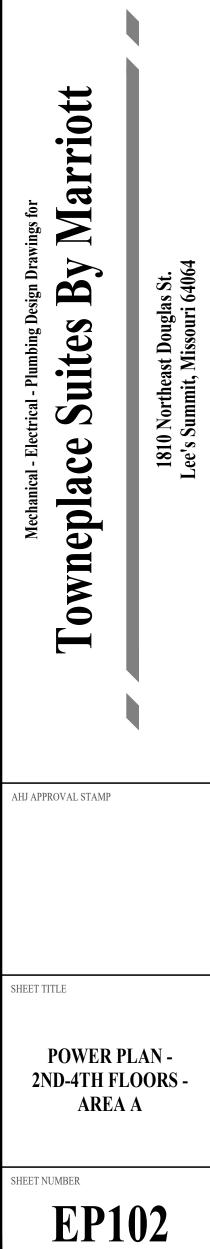
## POWER PLAN KEY NOTES:

1 PROVIDE & INSTALL (2) 3" CONDUITS FROM TELECOMMUNICATION DEMARCATIONS TO I.T. CLOSET, INTERCONNECT I.T. CLOSET(S) WITH (2) 3" CONDUITS BETWEEN EACH FLOOR.

- 2 ELEVATOR DISCONNECT(S) LOCATED WITHIN SHAFT ON FOURTH FLOOR FOR ELEVATOR EQUIPMENT; COORDINATE EXACT LOCATION & DETAILS WITH ELEVATOR CONTRACTOR.
  3 PANEL 'P2A' ON 2ND FLOOR; PANEL 'P3A' ON 3RD FLOOR; PANEL 'P4A' ON 4TH FLOOR.
- (4) PANEL 'P2B' ON 2ND FLOOR; PANEL 'P3B' ON 3RD FLOOR; PANEL 'P4B' ON 4TH FLOOR.
  (5) PANEL 'P2.1' ON 2ND FLOOR; PANEL 'P3.1' ON 3RD FLOOR; PANEL 'P4.1' ON 4TH FLOOR.
- $\overbrace{6}^{\frown}$  POWER FOR SMOKE CURTAIN; SEE ARCHITECTURAL DETAILS.







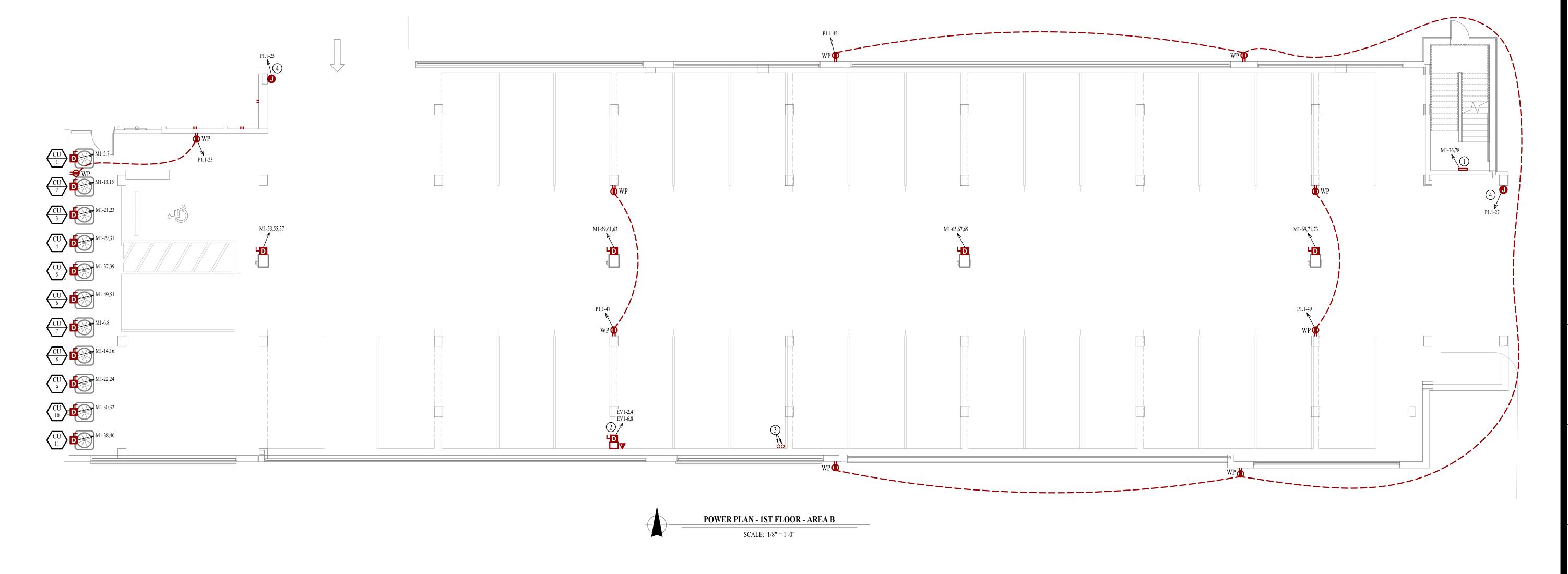
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──> PX-XX	CIRCUIT TAG
J	JUNCTION BOX
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	INDICATES MOUNTING HEIGHT TO BOTTOM OF BOX (STANDARD @ 18" AFF UNLESS NOTED OTHERWISE)
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AP V	WIRELESS ACCESS POINT, CEILING MOUNTED
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۶D	FUSED DISCONNECT
FS	FUSED SWITCH
SD-J	STARTER / DISCONNECT
S	SPEAKER AS PART OF BACKGROUND MUSIC (BGM) SYSTEM; REFER TO BRAND STANDARDS FOR SYSTEM DETAILS & REQUIREMENTS

## POWER PLAN GENERAL NOTES:

## POWER PLAN KEY NOTES:

- (4) POWER FOR ACCESS CONTROL GATE; COORDINATE EXACT LOCATION & REQUIREMENTS WITH EQUIPMENT SUPPLIER/INSTALLER.



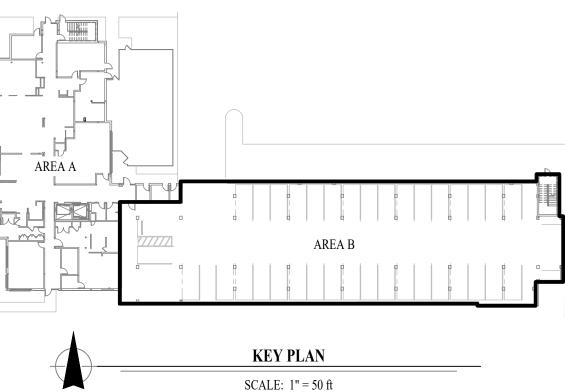
1. SEE SHEET E501 FOR ADDITIONAL ELECTRICAL NOTES, DETAILS, & SCHEDULES.

(1) PROVIDE & INSTALL 3kW ELECTRIC WALL HEATER EQUAL TO QMARK #AWH4404F.

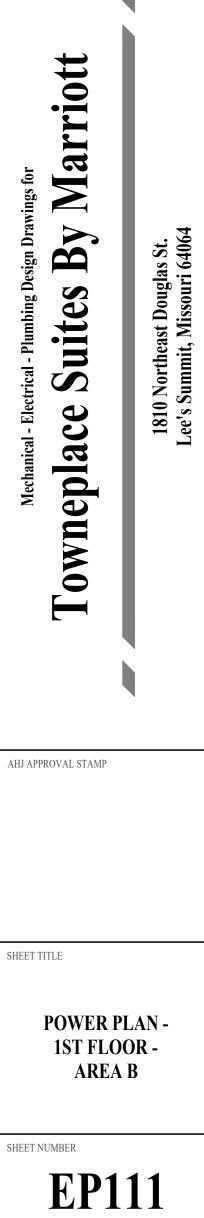
PROVIDE & INSTALL LEVEL-2, DUAL-STATION, EV-CHARGING SYSTEM EQUAL TO JUICEBAR GEN-3 #JB3.0-402; COORDINATE EXACT LOCATION & REQUIREMENTS WITH OWNER.

(3) PROVIDE & INSTALL (2) 4" CONDUITS WITH PULL-STRINGS FROM ELECTRICAL ROOM TO GARAGE FOR FUTURE EV-CHARGING; COORDINATE EXACT LOCATION & REQUIREMENTS WITH OWNER.





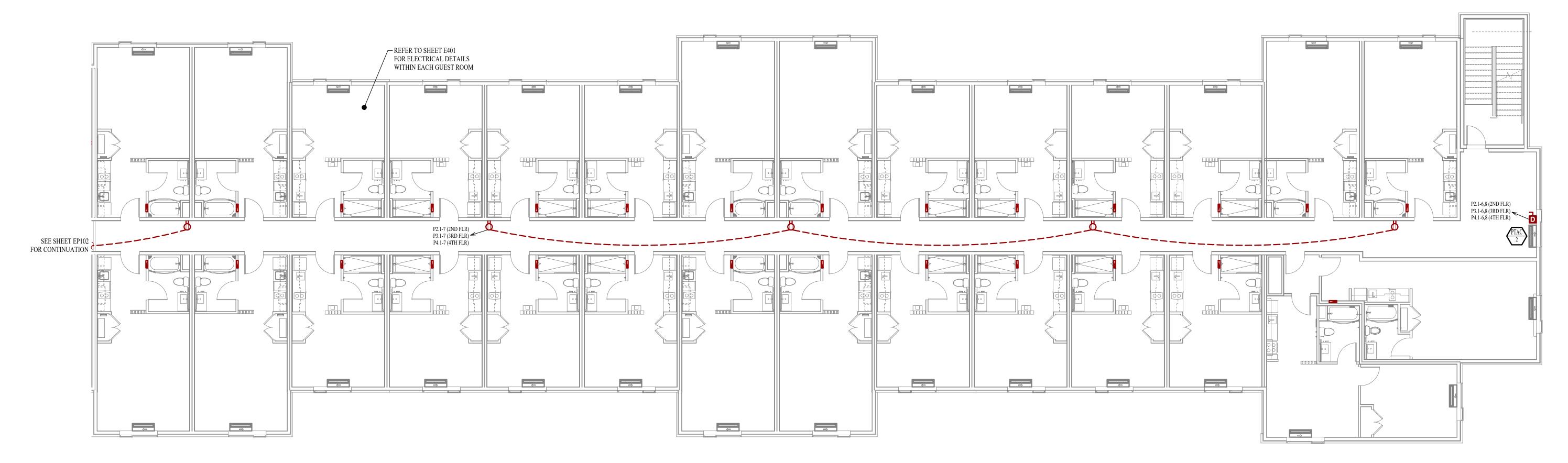


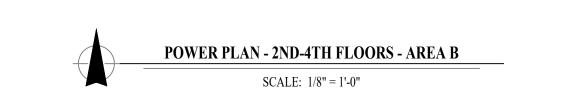


POWER PLAN SYMBOL LEGEND

POWER PLAN GENERAL NOTES:

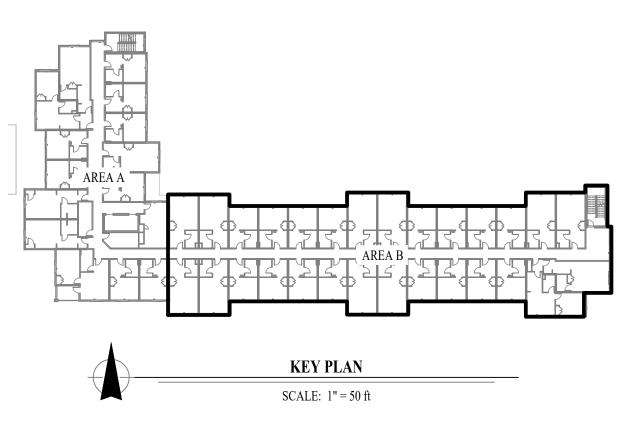
	CIRCUIT WIRING	1.	SEE SHEET E501 FOR ADDITIO
—— <b>&gt;</b> PX-XX	CIRCUIT TAG		
J	JUNCTION BOX		
XX +42	RECEPTACLE		
	INDICATES MOUNTING HEIGHT TO BOTTOM OF BOX (STANDARD @ 18" AFF UNLESS NOTED OTHERWISE)		
	"WP" = WEATHERPROOF OUTDOOR RECEPTACLE "AW" = ABOVE WINDOW RECEPTACLE "AC" = ABOVE CEILING RECEPTACLE "EX" = EXISTING RECEPTACLE TO REMAIN "IG" = ISOLATED GROUND		
P	GFCI DUPLEX CONVENIENCE RECEPTACLE		
Ŷ	208V RECEPTACLE		
<b>₽</b>	QUADPLEX CONVENIENCE RECEPTACLE		
φ	USB OUTLET WITH USB-A & USB-C CHARGING PORT		
V	DATA / PHONE JACK BOX WITH 1" CONDUIT & PULL STRING UP TO CEILING SPACE (STANDARD @ 18" AFF UNLESS NOTED OTHERWISE) TV = TELEVISION, P = PHONE		
AP V	WIRELESS ACCESS POINT, CEILING MOUNTED		
Φ	FLOOR RECEPTACLE		
V	FLOOR DATA		
D	DISCONNECT		
FD-J	FUSED DISCONNECT		
FS	FUSED SWITCH		
SD	STARTER / DISCONNECT		
6	SPEAKER AS PART OF BACKGROUND MUSIC (BGM) SYSTEM; REFER TO BRAND STANDARDS FOR SYSTEM DETAILS & REQUIREMENTS		





1. SEE SHEET E501 FOR ADDITIONAL ELECTRICAL NOTES, DETAILS, & SCHEDULES.

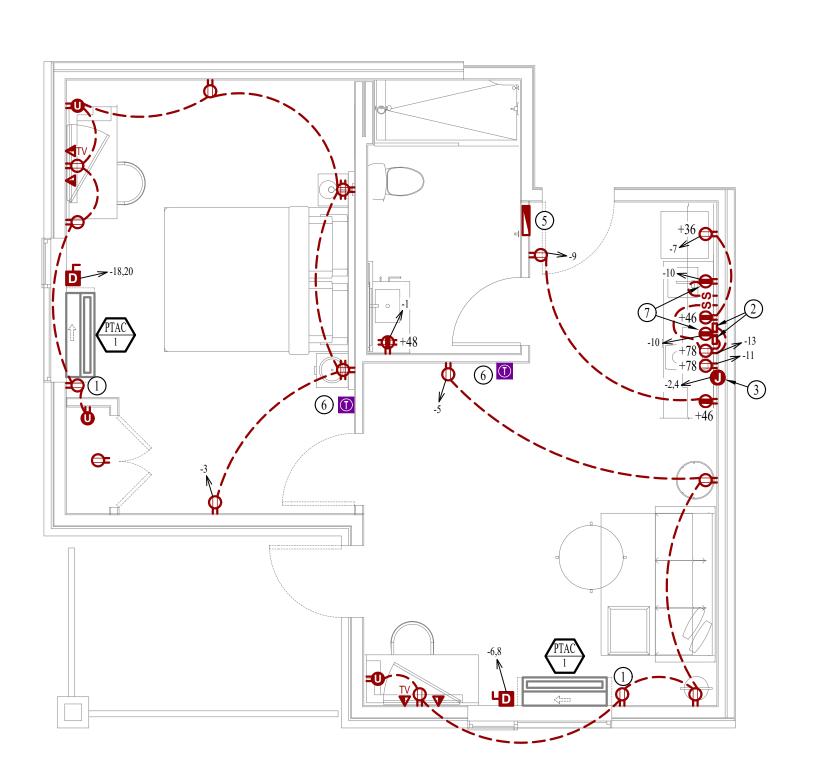
c.

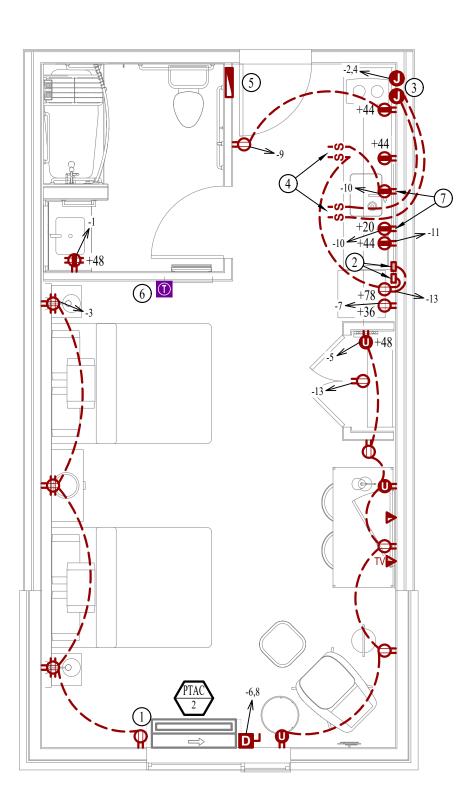




arriott N 2 **By** ıglas St. uri 64064 ā Suites 1810 Northeast Dou Lee's Summit, Misso rical Towneplace nical - Elec Mech AHJ APPROVAL STAMP SHEET TITLE POWER PLAN -2ND-4TH FLOORS -AREA B SHEET NUMBER **EP112** 







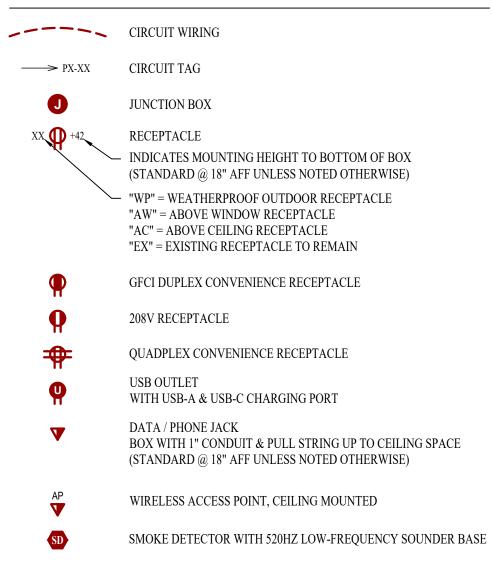
**POWER PLAN - STUDIO DOUBLE QUEEN ACCESSIBLE** 

POWER PLAN - ONE BED KING W/ BALCONY

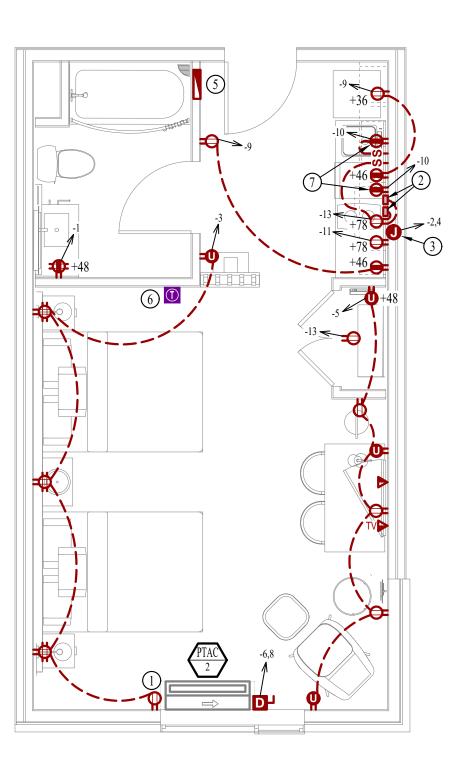
SCALE: 1/4" = 1'-0"

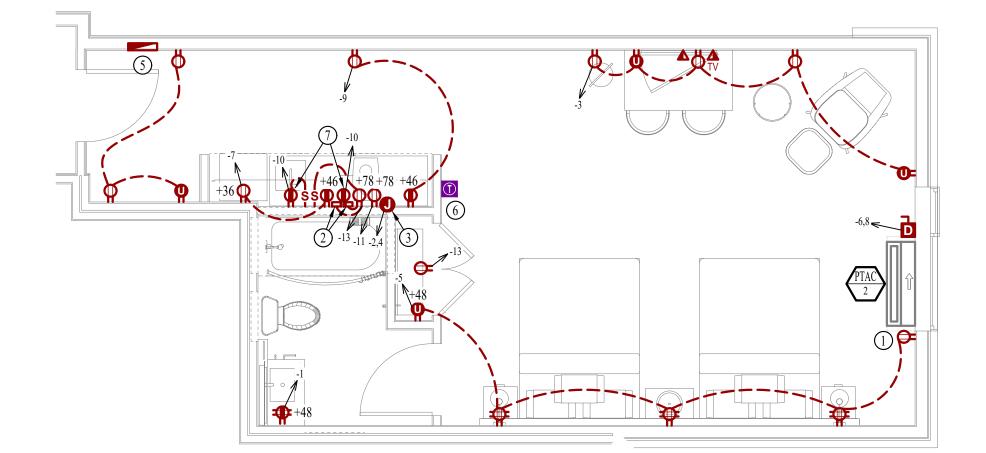
POWER PLAN SYMBOL LEGEND





**POWER PLAN - ONE BED KING** SCALE: 1/4" = 1'-0"





## **POWER PLAN - STUDIO DOUBLE QUEEN CENTER**

SCALE: 1/4" = 1'-0"

## POWER PLAN GENERAL NOTES:

- 1. COORDINATE ALL DEVICE AND EQUIPMENT LOCATIONS AND TYPES WITH ARCHITECT, OWNER, AND ARCHITECTURAL DRAWINGS PRIOR TO INSTALLATION. IN SOME CASES, RECEPTACLES WILL BE IN ACCESS PANELS.
- 2. ALL TELECOMMUNICATION, DATA, TV, SECURITY WIRING, AND EQUIPMENT TO BE PROVIDED BY THE OWNER'S LOW VOLTAGE SYSTEM SUPPLIER. 3. COMPLETE (1) UNIT OF EACH TYPE & OBTAIN OWNER'S APPROVAL BEFORE
- PROCEEDING TO OTHERS.
- 4. DO NOT INSTALL OUTLETS BACK-TO-BACK EVEN IF ASSOCIATED WITH DIFFERENT SYSTEM. OFFSET BOXES TO PREVENT SOUND PASS-THRU AT ADJACENT UNIT
- 5. COORDINATE LOCATION OF SWITCH & RECEPTACLES IN GUEST ROOM
- BATHROOMS WITH MIRROR, VANITY BACKSPLASH, TOWEL HOLDER, ETC. 6. COORDINATE ALL ELECTRICAL DEVICE MOUNTING HEIGHTS & LOCATIONS WITH
- ARCHITECTURAL PLANS. 7. DOORBELL AND FIRE ALARM STROBES ARE ONLY REQUIRED IN HEARING
- IMPAIRED ROOMS.
- 8. ALL 20 AMP, 120 VOLT, DUPLEX RECEPTACLES IN GUEST SUITS SHALL BE ARC FAULT PROTECTED AND TAMPER RESISTANT (TYP.) 9. ELECTRICAL CONTRACTOR SHALL PROVIDE A RACEWAY FOR THERMOSTATS. COORDINATE LOCATION WITH MECHANICAL CONTRACTOR.

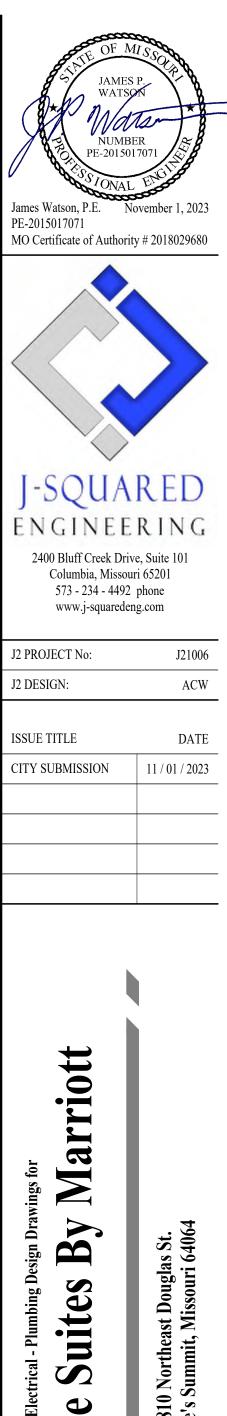
## **POWER PLAN KEY NOTES:**

(1) POWER FOR SOLAR SHADE. COORDINATE EXACT LOCATION WITH EQUIPMENTS SUPPLIER/INSTALLER PRIOR TO ROUGH-IN.

- (2) TRANSFORMERS FOR PUCK AND UNDERCABINET LIGHTS TO BE LOCATED IN UPPER CABINETS, BEHIND REMOVABLE CABINET PANEL. PROVIDE OUTLET IN THIS SPACE TO PLUG-IN TRANSFORMERS.
- (3) JUNCTION BOX(ES) FOR RANGE HOOD/LIGHT & COOKTOP.
- (4) SWITCH(ES) MOUNTED IN FACE OF MILLWORK. COORDINATE EXACT LOCATION & REQUIREMENTS WITH MILLWORK SUPPLIER/INSTALLER.
- (5) REFER TO OVERALL ELECTRICAL PLANS FOR PANEL DETAILS ('PXXX').
- (6) GUESTROOM CONTROLLER; SEE BUILDING CONTROL SYSTEM SCHEDULE FOR DETAILS.
- (7) DISPOSAL OUTLET TO BE SWITCHED; DISHWASHER OUTLET TO BE UNSWITCHED.

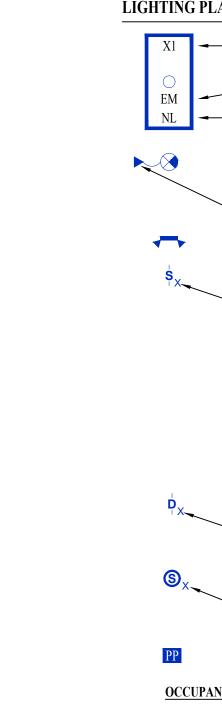
## **POWER PLAN - STUDIO DOUBLE QUEEN END**

SCALE: 1/4" = 1'-0"



1810 N Lee's Su Towneplace al - File Me AHJ APPROVAL STAMP SHEET TITLE **POWER PLAN - GUEST** ROOMS SHEET NUMBER **EP401** 







## LIGHTING PLAN SYMBOL LEGEND

- ----- "X1" INDICATES FIXTURE TYPE (REFER TO SCHEDULE)
- LIGHTING FIXTURE EM "EM" INDICATES EMERGENCY BATTERY BACKUP
  - ------ "NL" INDICATES UN-SWITCHED NIGHT LIGHT

EXIT LIGHT

## └── INDICATES REQUIRED REMOTE HEAD

### EMERGENCY EGRESS LIGHT

SWITCH (WALL MOUNTED)

- SWITCH TYPE:
- 3 = 3-WAY • 4 = 4-WAY
- OP = PASSIVE INFRARED OCCUPANCY SENSOR • OU = ULTRASONIC OCCUPANCY SENSOR
- OT = DUAL-TECHNOLOGY OCCUPANCY SENSOR
- VP = PASSIVE INFRARED VACANCY SENSOR
- VU = ULTRASONIC VACANCY SENSOR • VT = DUAL-TECHNOLOGY VACANCY SENSOR
- M = MOMENTARY SWITCH
- SS = SCENE SWITCH
- K = KEYED SWITCH
- DIMMER SWITCH (WALL MOUNTED)

## – SWITCH TYPE:

• SEE "SWITCH (WALL MOUNTED)" FOR TYPE DESIGNATIONS

## SWITCH (CEILING MOUNTED)

- SWITCH TYPE: • SEE "SWITCH (WALL MOUNTED)" FOR TYPE DESIGNATIONS

#### POWER PACK

OCCUPANCY SENSOR

• AUTO FULL-ON (OR 50% IF NOTED)

 AUTOMATICALLY TURN OFF LIGHTING AFTER 20 MINUTES WITHOUT OCCUPANT DETECTION • WITH MANUAL OVERRIDE CONTROL (IF NOTED)

## VACANCY SENSOR

 MANUAL FULL-ON AUTOMATICALLY TURN OFF LIGHTING AFTER 20 MINUTES WITHOUT OCCUPANT DETECTION

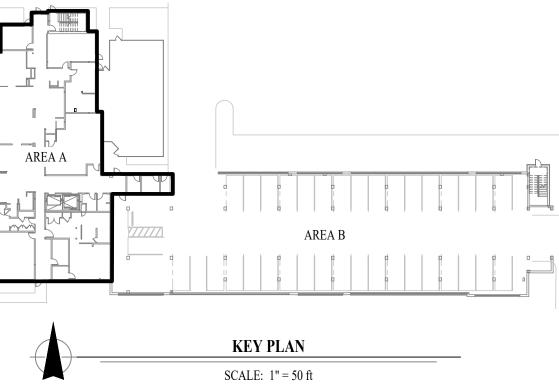
• WITH MANUAL OVERRIDE CONTROL (IF NOTED)

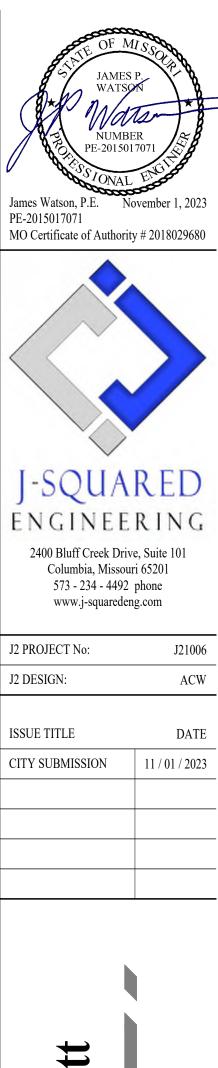
## LIGHTING PLAN GENERAL NOTES:

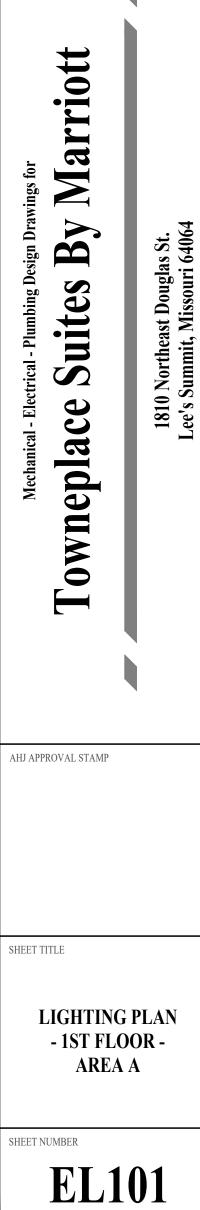
1. SEE SHEET E501 FOR ADDITIONAL ELECTRICAL NOTES, DETAILS, & SCHEDULES. 2. OCCUPANCY / VACANCY SENSOR QUANTITIES AND GENERAL LOCATIONS SHOWN FOR REFERENCE ONLY. CONTRACTOR TO PROVIDE AND INSTALL SENSOR WITH SPACING PER MANUFACTURER SPECIFICATIONS AND INCLUDE ADDITIONAL SENSORS IF NECESSARY. CEILING-MOUNTED SENSORS SHALL BE INSTALLED WITHIN MANUFACTURE'S ACCEPTABLE MOUNTING HEIGHT RANGE. REFER TO LIGHTING CONTROL SCHEDULE FOR ADDITIONAL CONTROL DETAILS & REQUIREMENTS. 4. REFER TO ARCHITECTURAL RCP'S FOR EXACT FIXTURE LOCATIONS & REQUIREMENTS.

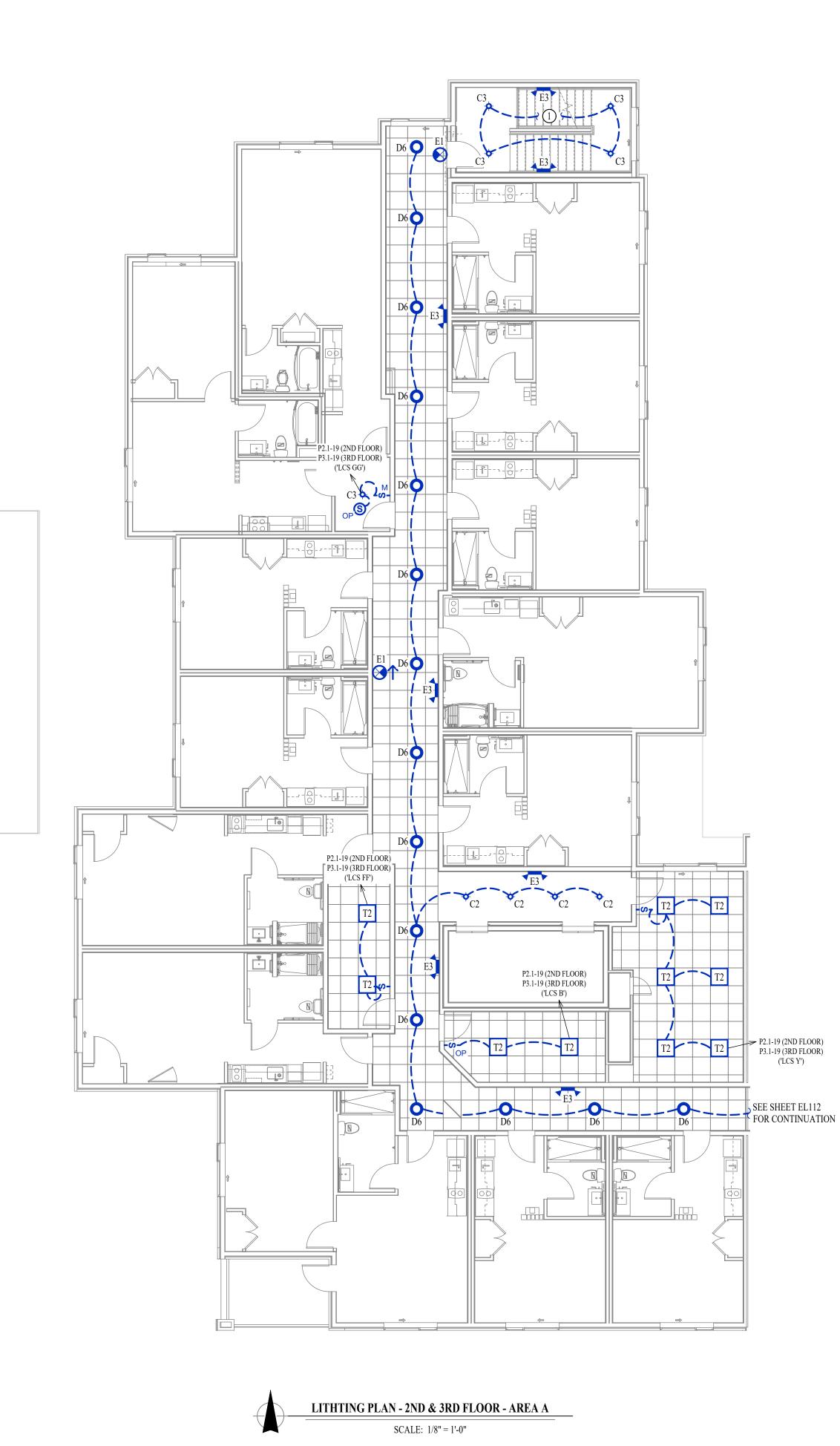
### LIGHTING PLAN KEY NOTES:

(1) CIRCUIT CONTINUES TO LEVEL ABOVE.









## LIGHTING PLAN SYMBOL LEGEND

X1 O EM NL	<ul> <li>"X1" INDICATES FIXTURE TYPE (REFER TO SCHEDULE)</li> <li>LIGHTING FIXTURE</li> <li>"EM" INDICATES EMERGENCY BATTERY BACKUP</li> <li>"NL" INDICATES UN-SWITCHED NIGHT LIGHT</li> </ul>	1. 2.	
	EXIT LIGHT	L	
	– INDICATES REQUIRED REMOTE HEAD	$\frac{1}{1}$	
<b>~</b>	EMERGENCY EGRESS LIGHT		
\$ _×	SWITCH (WALL MOUNTED)		
	<ul> <li>SWITCH TYPE:</li> <li>3 = 3-WAY</li> <li>4 = 4-WAY</li> <li>OP = PASSIVE INFRARED OCCUPANCY SENSOR</li> <li>OU = ULTRASONIC OCCUPANCY SENSOR</li> <li>OT = DUAL-TECHNOLOGY OCCUPANCY SENSOR</li> <li>VP = PASSIVE INFRARED VACANCY SENSOR</li> <li>VU = ULTRASONIC VACANCY SENSOR</li> <li>VT = DUAL-TECHNOLOGY VACANCY SENSOR</li> <li>VT = DUAL-TECHNOLOGY VACANCY SENSOR</li> <li>M = MOMENTARY SWITCH</li> <li>SS = SCENE SWITCH</li> <li>K = KEYED SWITCH</li> </ul>		
X	DIMMER SWITCH (WALL MOUNTED) – SWITCH TYPE: • SEE "SWITCH (WALL MOUNTED)" FOR TYPE DESIGNATIONS		
©x,	<ul> <li>SWITCH (CEILING MOUNTED)</li> <li>SWITCH TYPE:</li> <li>SEE "SWITCH (WALL MOUNTED)" FOR TYPE DESIGNATIONS</li> </ul>		
PP	POWER PACK		
OCCUPANCY SENSOR			

AUTOMATICALLY TURN OFF LIGHTING AFTER 20 MINUTES WITHOUT OCCUPANT DETECTION
WITH MANUAL OVERRIDE CONTROL (IF NOTED)

• AUTO FULL-ON (OR 50% IF NOTED)

VACANCY SENSOR

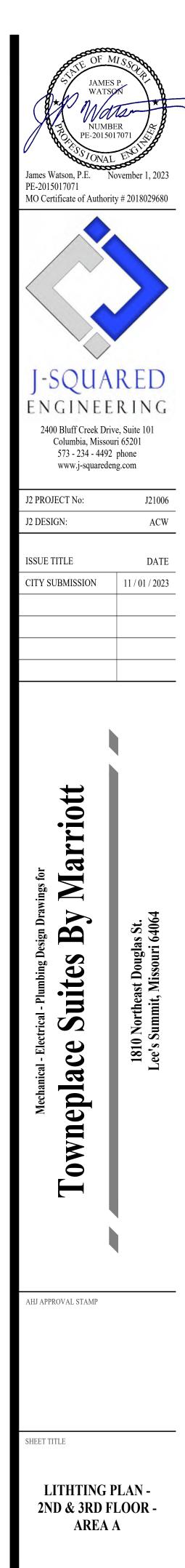
- MANUAL FULL-ON • AUTOMATICALLY TURN OFF LIGHTING AFTER 20 MINUTES WITHOUT
- OCCUPANT DETECTION
- WITH MANUAL OVERRIDE CONTROL (IF NOTED)

## LIGHTING PLAN GENERAL NOTES:

SEE SHEET E501 FOR ADDITIONAL ELECTRICAL NOTES, DETAILS, & SCHEDULES. OCCUPANCY / VACANCY SENSOR QUANTITIES AND GENERAL LOCATIONS SHOWN FOR REFERENCE ONLY. CONTRACTOR TO PROVIDE AND INSTALL SENSOR WITH SPACING PER MANUFACTURER SPECIFICATIONS AND INCLUDE ADDITIONAL SENSORS IF NECESSARY. CEILING-MOUNTED SENSORS SHALL BE INSTALLED WITHIN MANUFACTURE'S ACCEPTABLE MOUNTING HEIGHT RANGE.

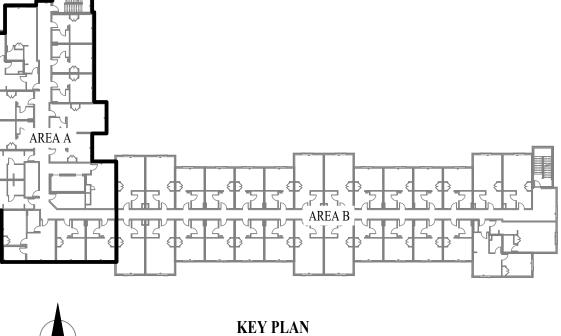
## LIGHTING PLAN KEY NOTES:

() CIRCUIT CONTINUES TO LEVEL ABOVE/BELOW.

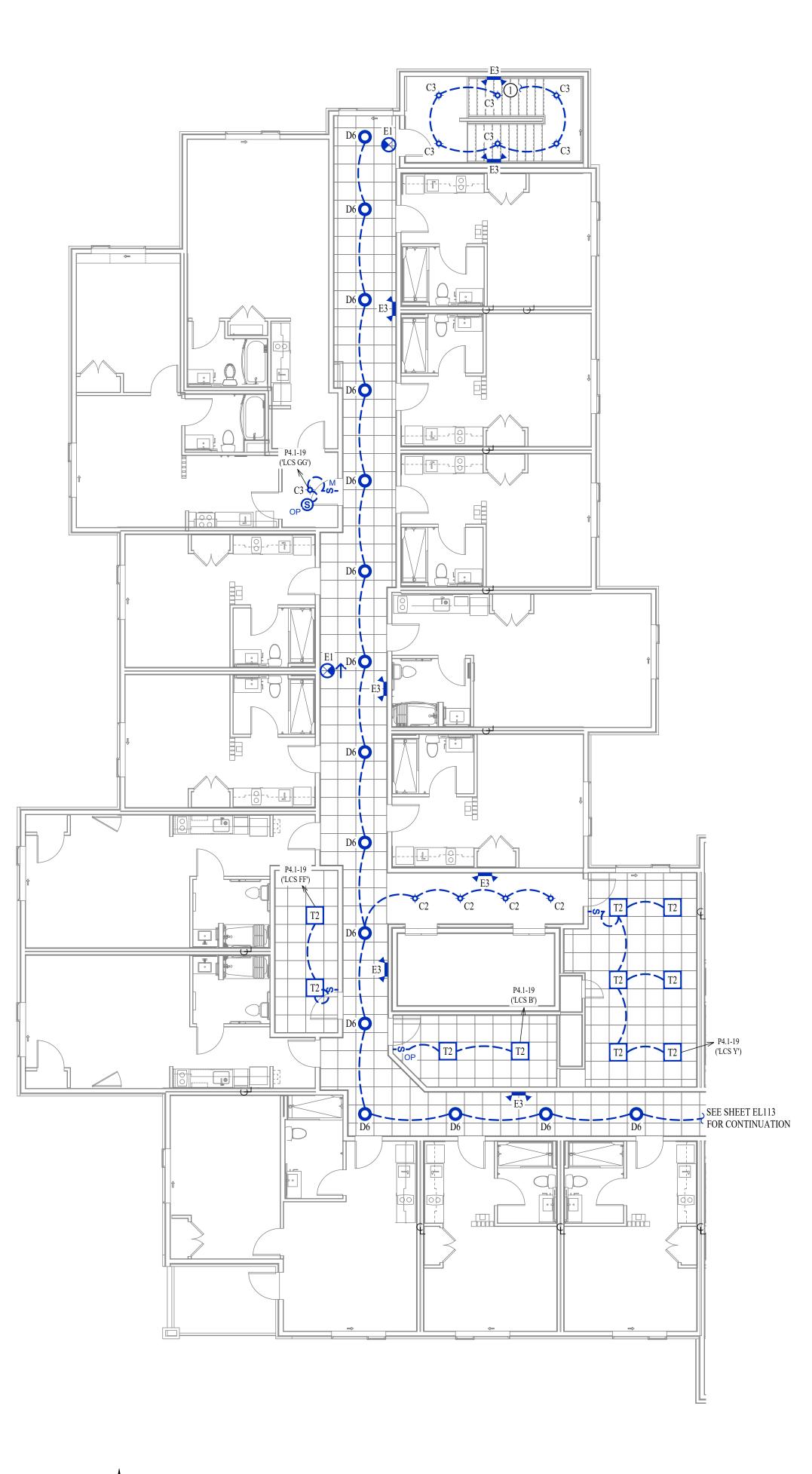


SHEET NUMBER

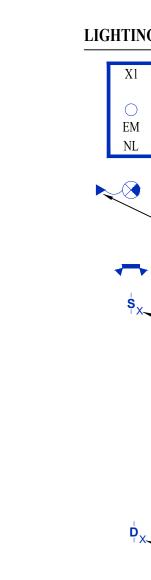




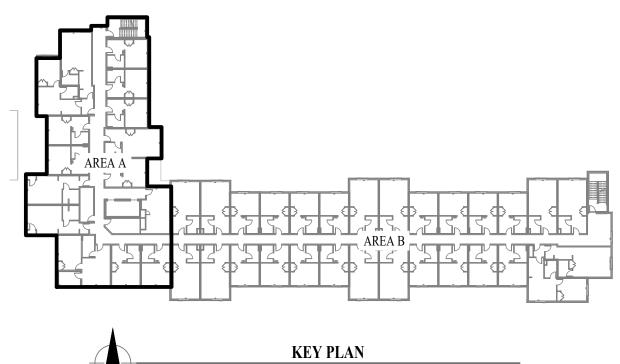
SCALE: 1" = 50 ft



LIGHTING PLAN - 4TH FLOOR - AREA A SCALE: 1/8" = 1'-0"



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## LIGHTING PLAN SYMBOL LEGEND

- X1 "X1" INDICATES FIXTURE TYPE (REFER TO SCHEDULE)
- LIGHTING FIXTURE EM "EM" INDICATES EMERGENCY BATTERY BACKUP
  - ------ "NL" INDICATES UN-SWITCHED NIGHT LIGHT

EXIT LIGHT

## └── INDICATES REQUIRED REMOTE HEAD

## EMERGENCY EGRESS LIGHT

SWITCH (WALL MOUNTED)

- SWITCH TYPE:
- 3 = 3-WAY • 4 = 4-WAY
- OP = PASSIVE INFRARED OCCUPANCY SENSOR OU = ULTRASONIC OCCUPANCY SENSOR
- OT = DUAL-TECHNOLOGY OCCUPANCY SENSOR
- VP = PASSIVE INFRARED VACANCY SENSOR
- VU = ULTRASONIC VACANCY SENSOR • VT = DUAL-TECHNOLOGY VACANCY SENSOR
- M = MOMENTARY SWITCH
- SS = SCENE SWITCH
- K = KEYED SWITCH
- DIMMER SWITCH (WALL MOUNTED)

## SWITCH TYPE:

• SEE "SWITCH (WALL MOUNTED)" FOR TYPE DESIGNATIONS

#### S_x SWITCH (CEILING MOUNTED)

- SWITCH TYPE: • SEE "SWITCH (WALL MOUNTED)" FOR TYPE DESIGNATIONS

#### PP POWER PACK

## OCCUPANCY SENSOR

• AUTO FULL-ON (OR 50% IF NOTED) AUTOMATICALLY TURN OFF LIGHTING AFTER 20 MINUTES WITHOUT OCCUPANT DETECTION • WITH MANUAL OVERRIDE CONTROL (IF NOTED)

## VACANCY SENSOR

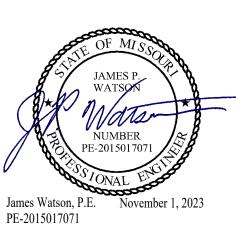
 MANUAL FULL-ON AUTOMATICALLY TURN OFF LIGHTING AFTER 20 MINUTES WITHOUT OCCUPANT DETECTION • WITH MANUAL OVERRIDE CONTROL (IF NOTED)

#### LIGHTING PLAN GENERAL NOTES:

## LIGHTING PLAN KEY NOTES:

(1) CIRCUIT CONTINUES TO LEVEL BELOW.

SCALE: 1" = 50 ft

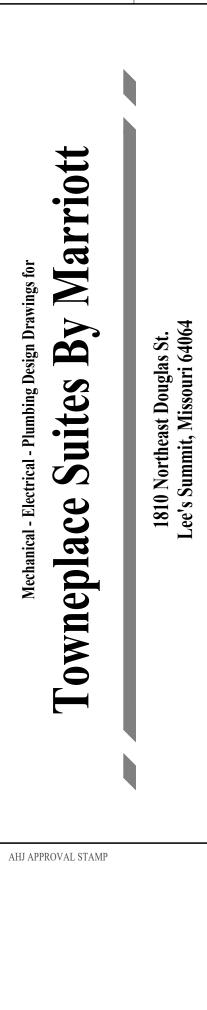


J-SQUARED

MO Certificate of Authority # 2018029680

ENGINEERING 2400 Bluff Creek Drive, Suite 101 Columbia, Missouri 65201 573 - 234 - 4492 phone www.j-squaredeng.com

J2 PROJECT No:	J21006
J2 DESIGN:	ACW
ISSUE TITLE	DATE
CITY SUBMISSION	11 / 01 / 2023

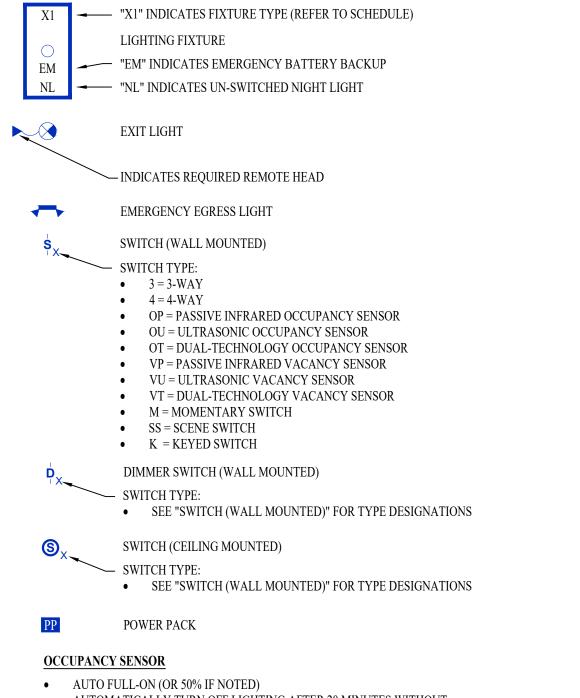


SHEET TITLE

LIGHTING PLAN - 4TH FLOOR -AREA A



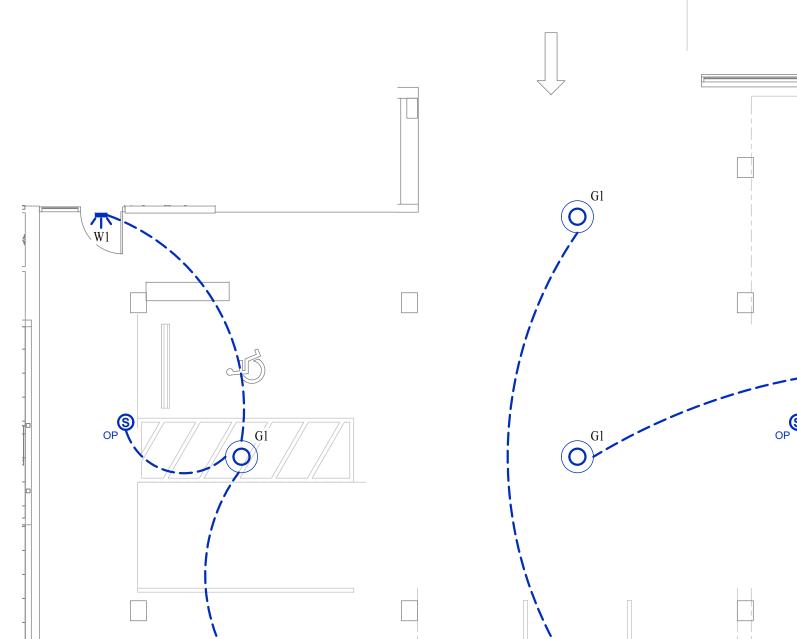
### LIGHTING PLAN SYMBOL LEGEND



- AUTOMATICALLY TURN OFF LIGHTING AFTER 20 MINUTES WITHOUT OCCUPANT DETECTION
- WITH MANUAL OVERRIDE CONTROL (IF NOTED)

### VACANCY SENSOR

- MANUAL FULL-ON
- AUTOMATICALLY TURN OFF LIGHTING AFTER 20 MINUTES WITHOUT
- OCCUPANT DETECTIONWITH MANUAL OVERRIDE CONTROL (IF NOTED)



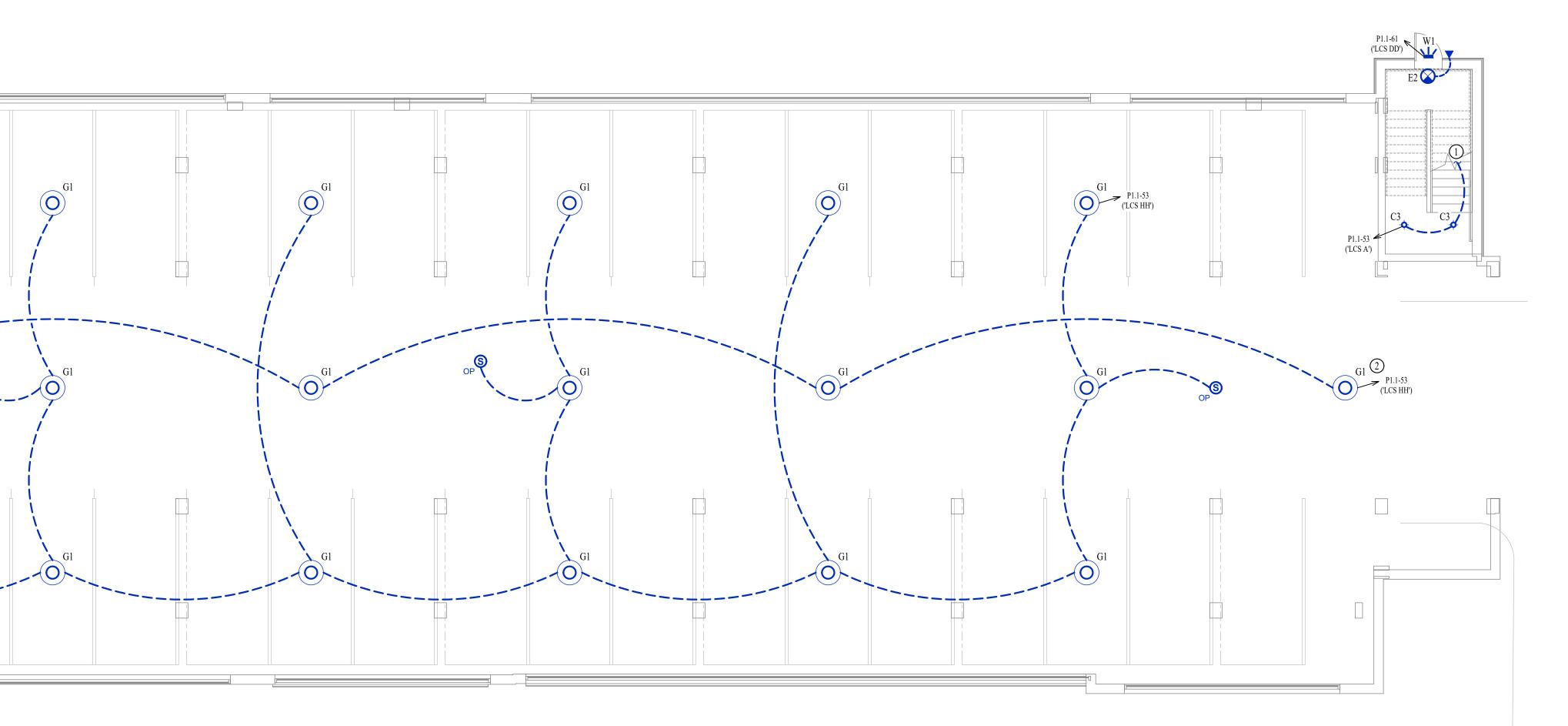
### LIGHTING PLAN GENERAL NOTES:

### LIGHTING PLAN KEY NOTES:

(1) CIRCUIT CONTINUES TO LEVEL ABOVE. (2) WIRE THRU LIGHTING INVERTER EQUAL TO MYERS ILLUMINATOR 'LV3' SERIES (550W). LOCATE INVERTER IN MAIN ELECTRICAL ROOM.

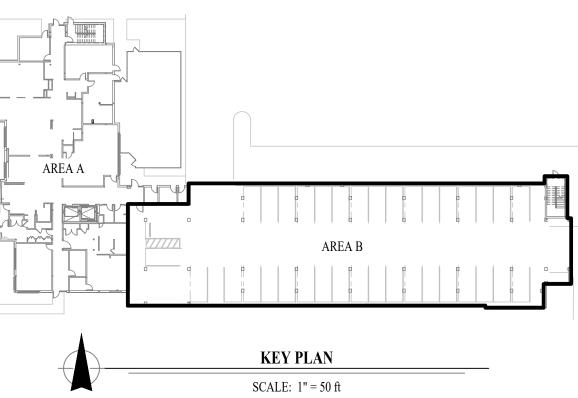
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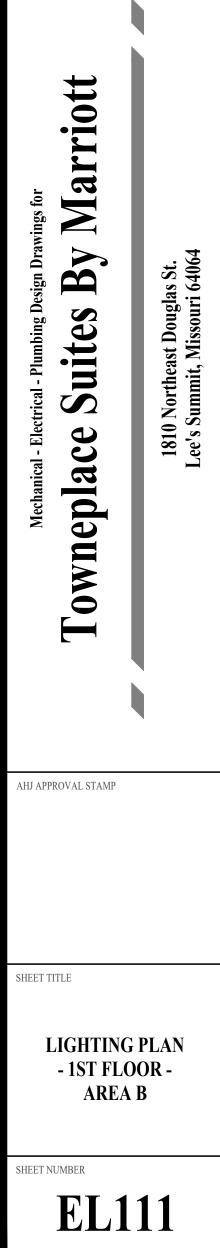




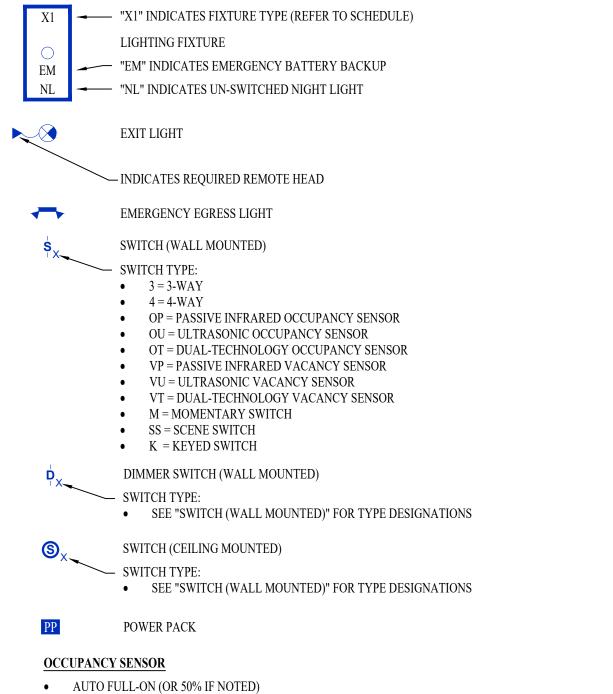
LIGHTING PLAN - 1ST FLOOR - AREA B SCALE: 1/8" = 1'-0"



JAMES P. WATSON NUMBER PE-2015017071 James Watson, P.E. November 1, 2023 PE-2015017071 MO Certificate of Authority # 2018029680			
J-SQUARED ENGINEERING 2400 Bluff Creek Drive, Suite 101 Columbia, Missouri 65201 573 - 234 - 4492 phone www.j-squaredeng.com			
J2 PROJECT No:	J21006		
J2 DESIGN:	ACW		
ISSUE TITLE CITY SUBMISSION	DATE 11 / 01 / 2023		



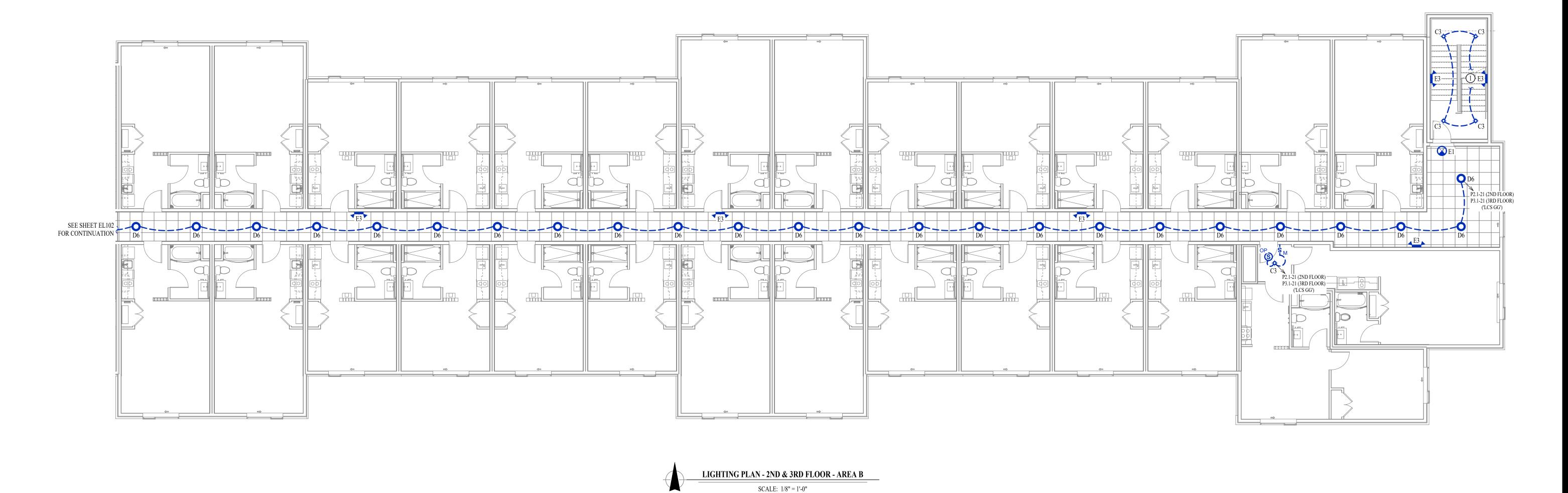
### LIGHTING PLAN SYMBOL LEGEND



- AUTOMATICALLY TURN OFF LIGHTING AFTER 20 MINUTES WITHOUT
- OCCUPANT DETECTION • WITH MANUAL OVERRIDE CONTROL (IF NOTED)

## VACANCY SENSOR

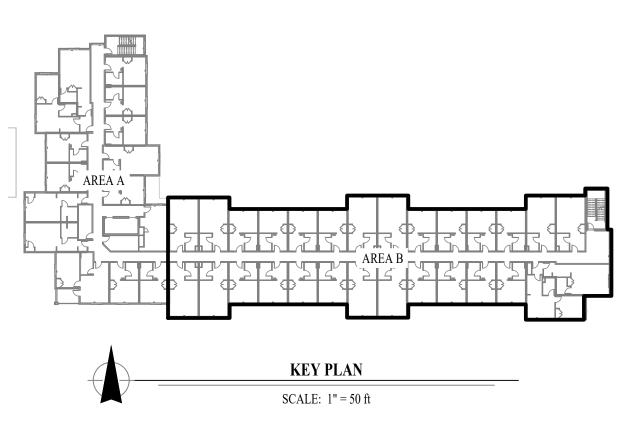
- MANUAL FULL-ON • AUTOMATICALLY TURN OFF LIGHTING AFTER 20 MINUTES WITHOUT
- OCCUPANT DETECTION
- WITH MANUAL OVERRIDE CONTROL (IF NOTED)



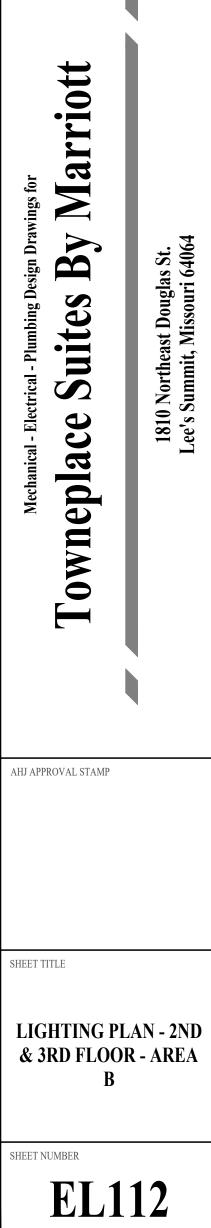
## LIGHTING PLAN GENERAL NOTES:

## LIGHTING PLAN KEY NOTES: (1) CIRCUIT CONTINUES TO LEVEL ABOVE/BELOW.

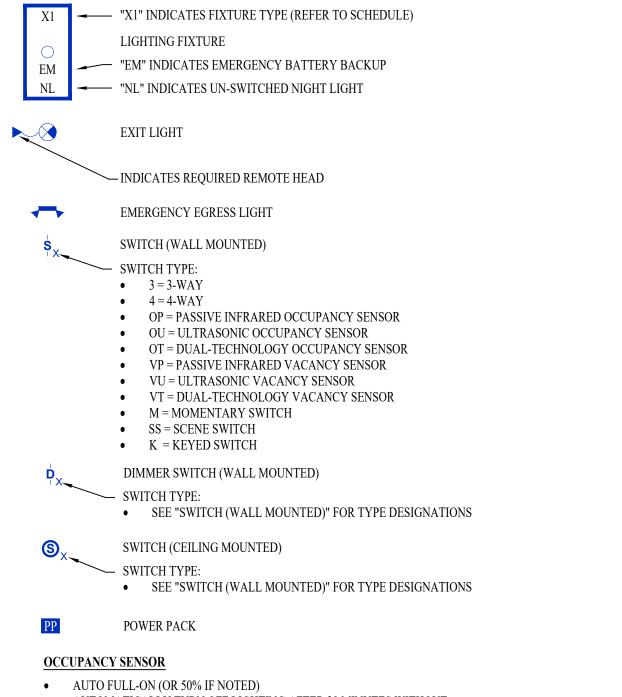
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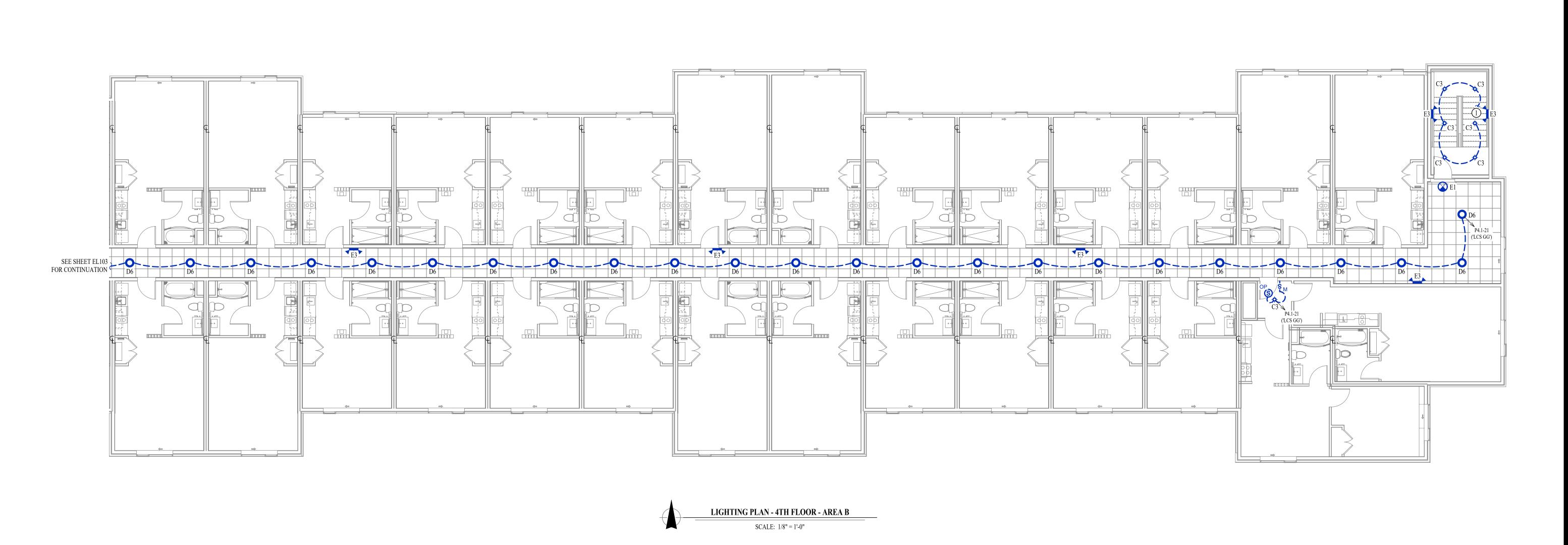
### LIGHTING PLAN SYMBOL LEGEND



- AUTOMATICALLY TURN OFF LIGHTING AFTER 20 MINUTES WITHOUT
- OCCUPANT DETECTION • WITH MANUAL OVERRIDE CONTROL (IF NOTED)

### VACANCY SENSOR

- MANUAL FULL-ON
- AUTOMATICALLY TURN OFF LIGHTING AFTER 20 MINUTES WITHOUT
- OCCUPANT DETECTION • WITH MANUAL OVERRIDE CONTROL (IF NOTED)

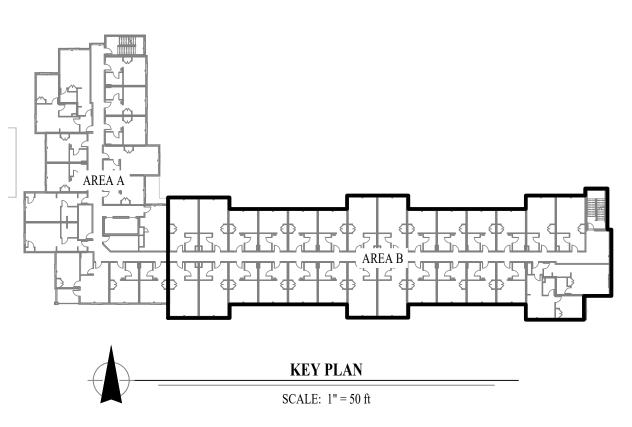


## LIGHTING PLAN GENERAL NOTES:

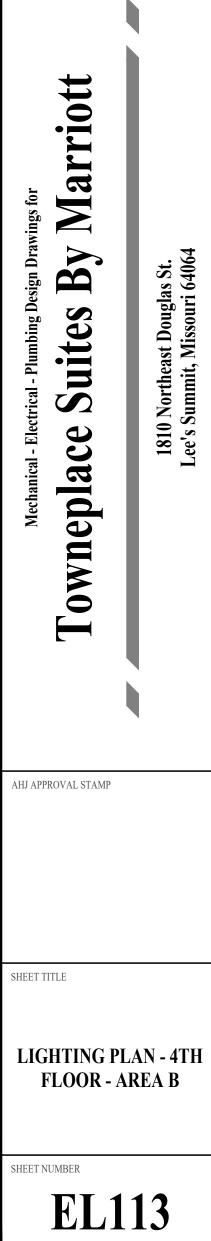
# LIGHTING PLAN KEY NOTES:

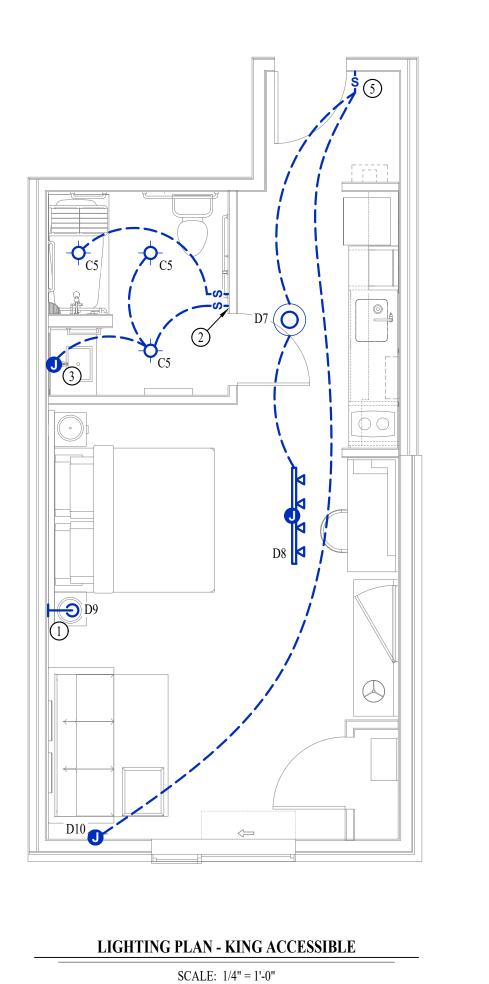
(1) CIRCUIT CONTINUES TO LEVEL BELOW.

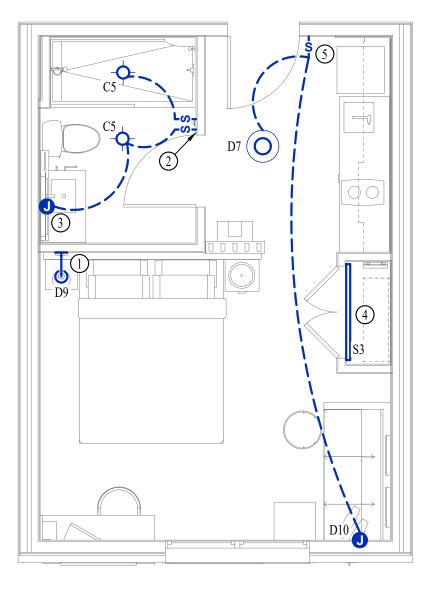
1. SEE SHEET E501 FOR ADDITIONAL ELECTRICAL NOTES, DETAILS, & SCHEDULES. OCCUPANCY / VACANCY SENSOR QUANTITIES AND GENERAL LOCATIONS SHOWN FOR REFERENCE ONLY. CONTRACTOR TO PROVIDE AND INSTALL SENSOR WITH SPACING PER MANUFACTURER SPECIFICATIONS AND INCLUDE ADDITIONAL SENSORS IF NECESSARY. CEILING-MOUNTED SENSORS SHALL BE INSTALLED WITHIN MANUFACTURE'S ACCEPTABLE MOUNTING HEIGHT RANGE.



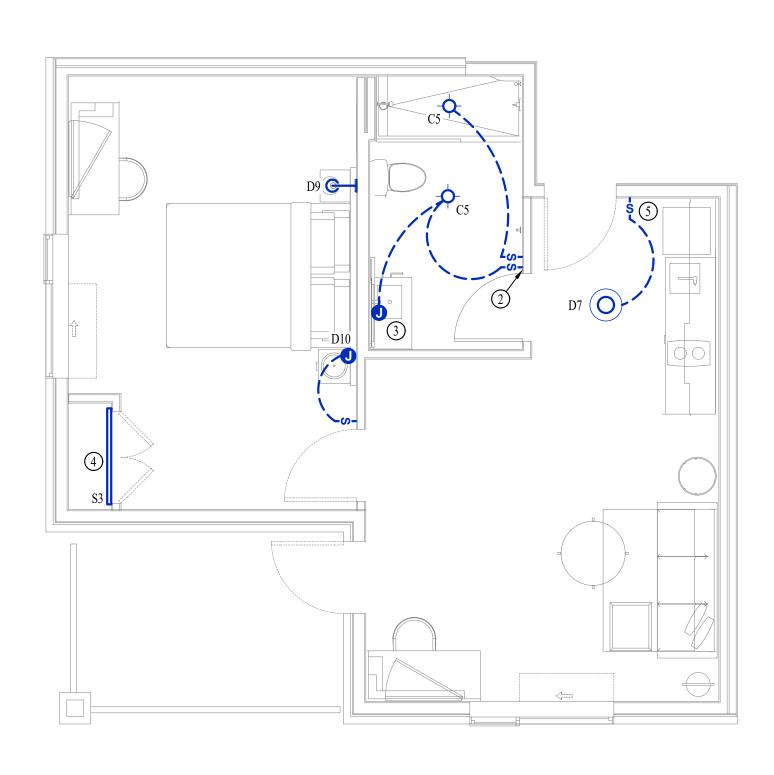


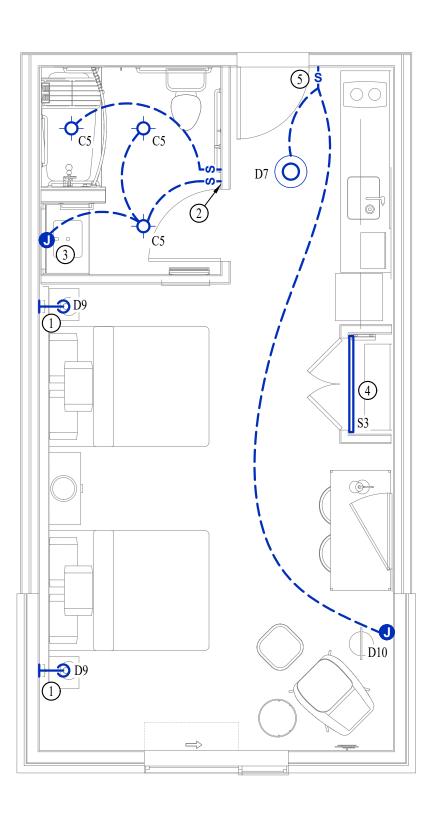






LIGHTING PLAN - KING STUDIO SCALE: 1/4" = 1'-0"

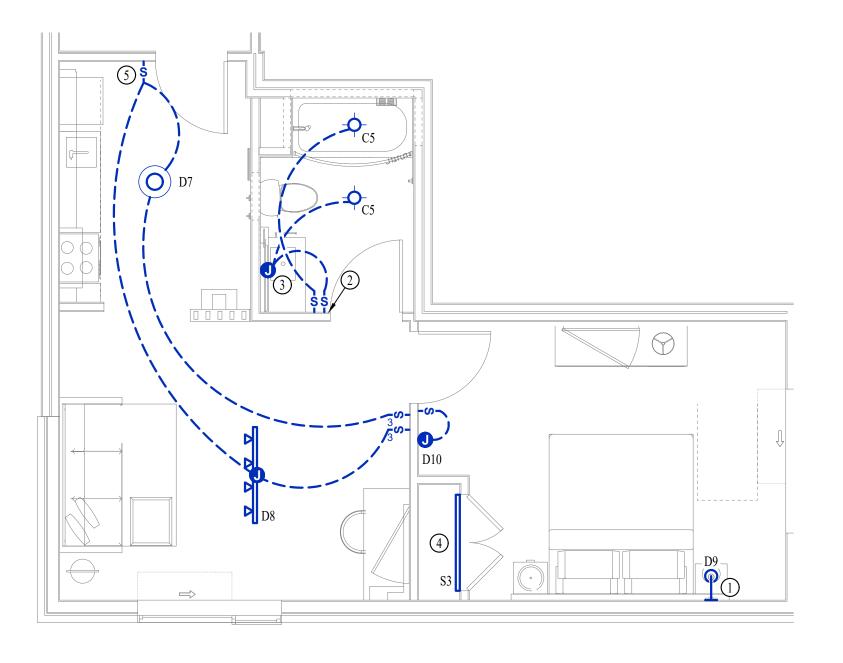




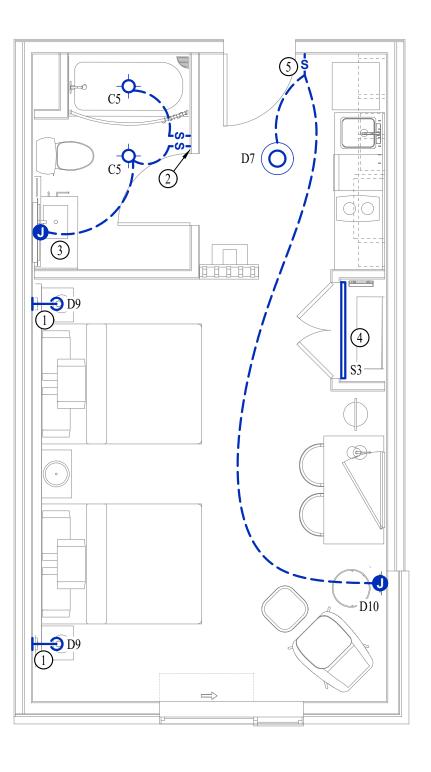
LIGHTING PLAN - ONE BED KING W/ BALCONY

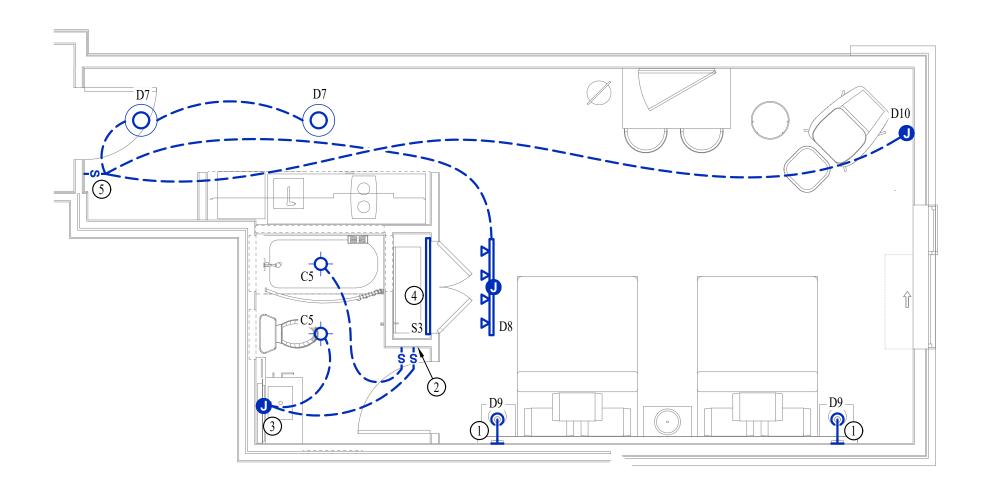
SCALE: 1/4" = 1'-0"

SCALE: 1/4" = 1'-0"



LIGHTING PLAN - ONE BED KING SCALE: 1/4" = 1'-0"





LIGHTING PLAN - STUDIO DOUBLE QUEEN ACCESSIBLE

SCALE: 1/4" = 1'-0"

LIGHTING PLAN - STUDIO DOUBLE QUEEN CENTER

## LIGHTING PLAN SYMBOL LEGEND

- <b>\$</b> _X1	LIGHTING FIXTURE — "X1" INDICATES FIXTURE TYPE (REFER TO SCHEDULE)
S ×	SWITCH (WALL MOUNTED) — SWITCH TYPE: • 3 = 3-WAY • 4 = 4-WAY
P ₁ X	DIMMER SWITCH (WALL MOUNTED) — SWITCH TYPE: • SEE "SWITCH (WALL MOUNTED)" FOR TYPE DESIGNATIONS
J	JUNCTION BOX

### LIGHTING PLAN GENERAL NOTES:

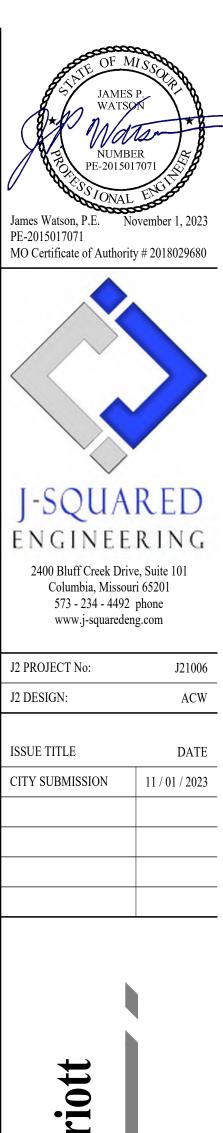
1. SEE SHEET E501 FOR ADDITIONAL ELECTRICAL NOTES, DETAILS, & SCHEDULES. REFER TO ARCHITECTURAL PLANS FOR EXACT FIXTURE LOCATIONS, DETAILS & REQUIREMENTS 3. ALL LIGHTING WITHIN EACH GUEST ROOM SHALL BE ON CIRCUIT PXXX-13 UNLESS NOTED OTHERWISE.

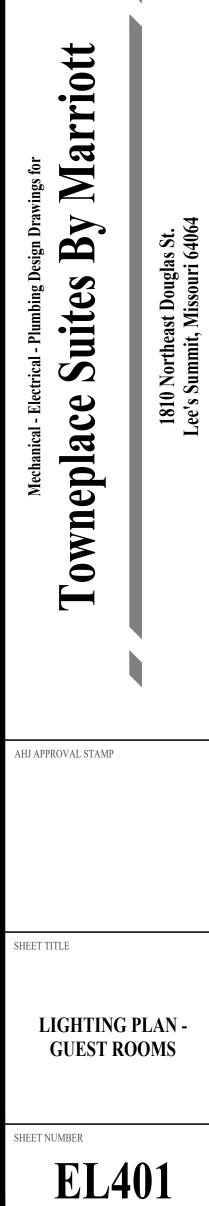
### LIGHTING PLAN KEY NOTES:

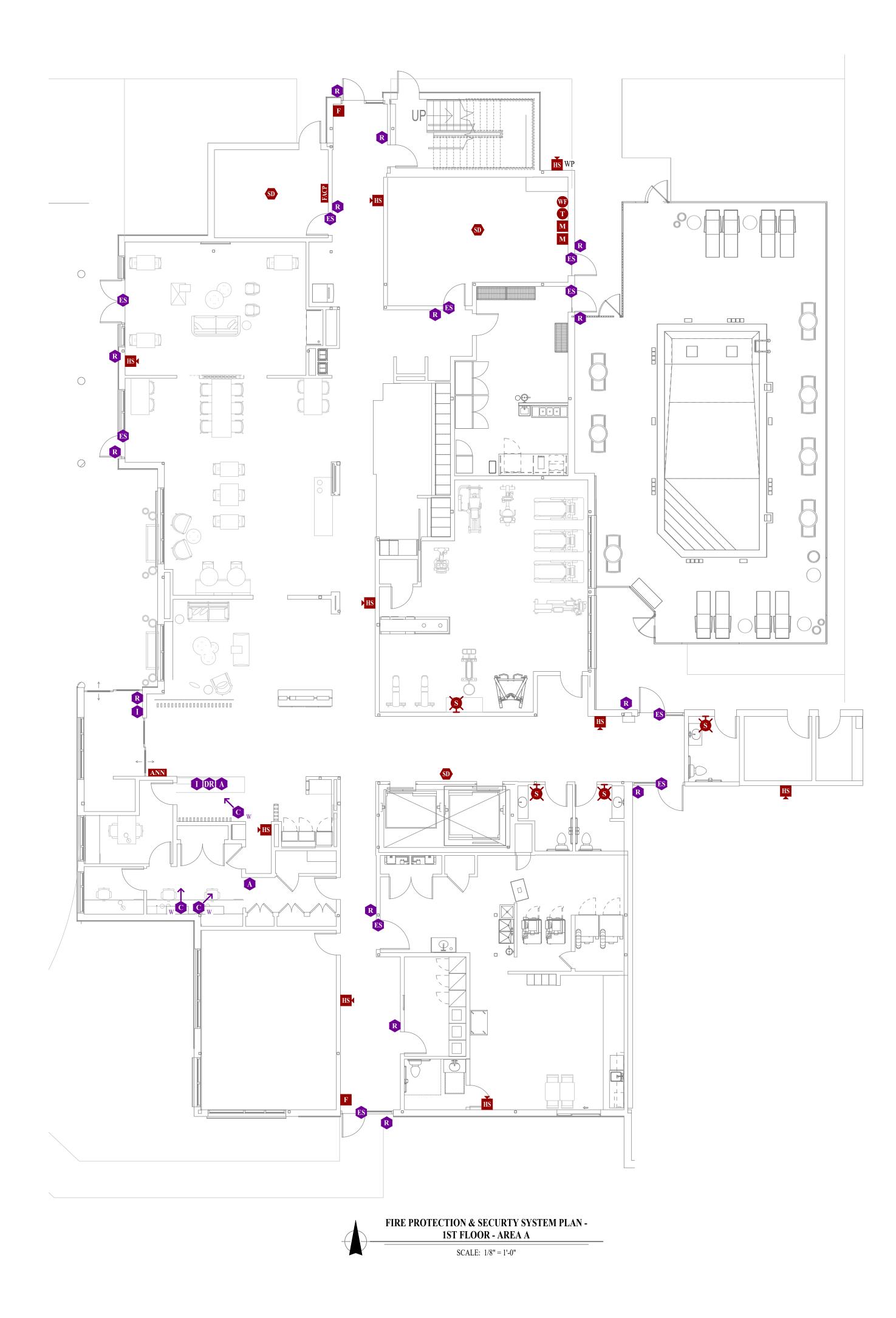
- (1) PLUG IN FIXTURE WITH INTEGRAL ON/OFF SWITCH.
- (2) SWITCH PLATE W/ INCORPORATED NIGHT LIGHT (SEE ARCHITECTURAL PLANS FOR DETAILS.)
- (3) MIRROR & OVERHEAD LIGHT TO BE SWITCHED TOGETHER. PROVIDE JBOX FOR MIRROR, TO BE
- CENTERED BEHIND MIRROR.
- (4) LOCATE CLOSET LIGHT ON FACE OF DOOR HEAD FRAME INSIDE CLOSET AND CONNECT TO SURFACE MOUNTED RELAY SWITCH ON DOOR FRAME JAMB. PROVIDE OUTLET ABOVE DOOR FOR POWER TO TRANSFORMER ALSO LOCATED ABOVE DOOR (SEE POWER PLAN). ALL WIRING TO BE CONCEALED WITHIN WALLS.
- (5) GUESTROOM CONTROLLER WITH LABELED MASTER LIGHTING SWITCH TO ALL HARDWIRED LIGHTING WITHIN ROOM (EXCEPT BATHROOM); CONTROLLER TO INTEGRATE INTO GUESTROOM MANAGEMENT SYSTEM & BAS. SEE BUILDING CONTROL SCHEDULE FOR DETAILS.

## LIGHTING PLAN - STUDIO DOUBLE QUEEN END

SCALE: 1/4" = 1'-0"







F	MANUAL PULL STATION	1		FIR MU
Μ	MODULE	2	2.	EVI MA
0	OUTPUT MODULE			NFF ALI
SD	SMOKE DETECTOR	2		ALI DEV
S	STROBE - CEILING MOUNT			SUC CON QUA
<u>Š</u>	STROBE - WALL MOUNT			INT ARI
HS	HORN STROBE - WALL MOUNT			
HS	HORN STROBE - CEILING MOUNT			
SS	SPEAKER STROBE - WALL MOUNT	F	IRE	AL
SS	SPEAKER STROBE - CEILING MOUNT	-	1.	VE
T	TAMPER SWITCH		2. 2.1	
WF	WATER FLOW SWITCH		2.2 3.	
FACP	FIRE ALARM CONTROL PANEL		3. 3.1	<u>W</u> .
ANN	FIRE ALARM ANNUNCIATOR		3.2	2.
			4	M

### SECURITY PLAN SYMBOL LEGEND

R	READER
M	MOTION DETECTOR
KP	ALARM KEYPAD
DC	DOOR CONTACT
P	PANIC
GB	GLASS BREAK SENSOR
ES	ELECTRIC STRIKE
0	INTERCOM
DR	DOOR RELEASE
A	DURESS ALARM BUTTON
BURG	BURGLAR PANEL
C _w	WALL MOUNT CAMERA (ARROW INDICATES VIEW DIRECTION)
Q _c	CEILING MOUNT CAMERA (ARROW INDICATES VIEW DIRECTION)



### FIRE ALARM SYSTEM SPECIFICATIONS

TRE ALARM SYSTEM SHALL BE AN ADDRESSABLE SYSTEM THAT IS NONCODED, UL-LISTED, WITH MULTIPLEX SIGNAL TRANSMISSION AND HORN/STROBE EVACUATION. EVERY FIRE ALARM SYSTEM COMPONENT SHALL BE UL-LISTED AND UL-CERTIFIED, TESTED BY MANUFACTURERS AS A COMPLETE SYSTEM, AND MEET ALL APPLICABLE REQUIREMENTS OF

NFPA 72. ALL FIRE ALARM WIRING TO BE PLENUM RATED.

ALL INITIATING DEVICES INSTALLED IN UNCONDITIONED SPACES SHALL BE CONVENTIONAL DEVICES SUITABLE FOR USE IN EXTREME HIGH AND LOW TEMPERATURES AND HIGH HUMIDITY. SUCH DEVICES SHALL BE SUPERVISED BY ADDRESSABLE MONITOR MODULES LOCATED IN CONDITIONED SPACES.

QUANTITIES, TYPES, AND LOCATIONS OF INITIATING DEVICES AND OUTPUT MODULES FOR INTERCONNECTION WITH FIRE SUPPRESSION MUST BE COORDINATED WITH CONTRACTORS THAT ARE RESPONSIBLE FOR THOSE SYSTEMS.

### **LARM DEVICE TYPICAL LOCATIONS:**

VERIFY EXACT LOCATIONS WITH LATEST NFPA REQUIREMENTS;

CEILING MOUNTED SMOKE / HEAT DETECTORS:

MUST BE MOUNTED AT LEAST 36" FROM HVAC GRILLES / DIFFUSERS MUST BE LOCATED AT LEAST 4" FROM WALL/CEILING INTERSECTIONS (MEASURED FROM EDGE OF DEVICE)

VALL MOUNTED SMOKE / HEAT DETECTORS:

MUST BE LOCATED AT LEAST 4" FROM WALL/CEILING INTERSECTIONS (MEASURED FROM EDGE OF DEVICE) MUST BE LOCATED WITHIN AT LEAST 12" FROM WALL/CEILING INTERSECTION (MEASURED FROM EDGE OF DEVICE)

4. <u>MANUAL PULL STATIONS</u>: 4.1. MUST BE LOCATED WITHIN 5' OF EXTERIOR DOORWAY (MEASURED FROM CENTER OF PULL STATION TO NEAREST EDGE OF DOOR) 4.2. MUST BE LOCATED BETWEEN 42" AND 54" A.F.F. (MEASURED FROM FINISH FLOOR TO

CENTER OFF PULL STATION) MAGNETIC DOOR HOLDER:

5.2.

8.2.

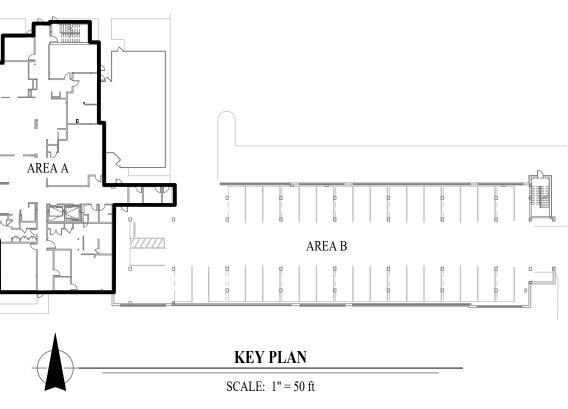
5.1. MUST BE LOCATED 6" BELOW TOP OF DOOR (MEASURED FROM TOP OF DOOR TO TOP OF DOOR HOLDER) MUST BE LOCATED DOOR WIDTH MINUS THREE INCHES FROM DOOR (MEASURED FROM NEAREST EDGE OF HOLDER TO NEAREST EDGE OF DOOR).

6. FIRE ALARM CONTROL PANEL: 6.1. MUST BE LOCATED AT MAXIMUM OF 72" A.F.F. (MEASURED FROM FINISH FLOOR TO TOP OF FIRE ALARM CONTROL PANEL)

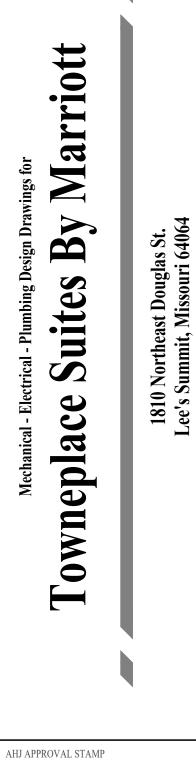
7. FIRE ALARM ANNUNCIATOR: 7.1. MUST BE LOCATED AT MAXIMUM OF 60" A.F.F. (MEASURED FROM FINISH FLOOR TO TOP OF FIRE ALARM ANNUNCIATOR PANEL)

8. WALL MOUNTED STROBE DEVICES (VISUAL ONLY): 8.1. MUST BE LOCATED AT 84" A.F.F. (MEASURED FROM FINISH FLOOR TO BOTTOM OF BACK

BOX) MUST BE LOCATED AT MOST 24" FROM WALL/CEILING INTERSECTION WITHIN HANDICAP BEDROOMS (MEASURED FROM WALL/CEILING INTERSECTION TO BOTTOM OF BACK BOX) 9. WALL-MOUNTED HORN / STROBE DEVICES (AUDIBLE & VISUAL): 9.1. MUST BE LOCATED AT 84" A.F.F. (MEASURED FROM FINISH FLOOR TO BOTTOM OF BACK BOX)





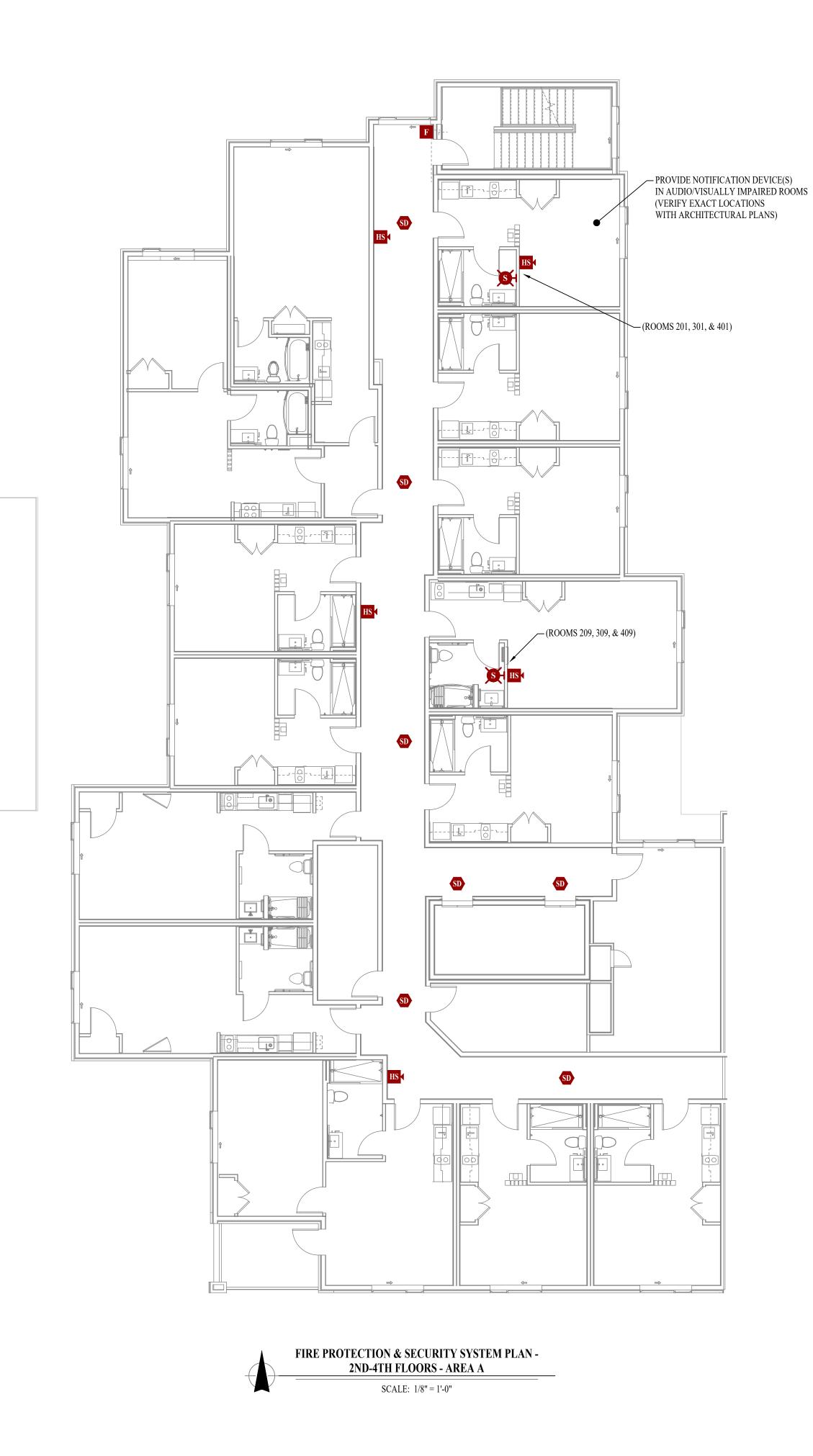


SHEET TITLE

## **FIRE PROTECTION &** SECURTY SYSTEM PLAN - 1ST FLOOR - AREA A

SHEET NUMBER





F	MANUAL PULL STATION	1. FIR MU
Μ	MODULE	2. EVI MA
0	OUTPUT MODULE	NFI 3. ALI
SD	SMOKE DETECTOR	4. AL DE SUG
S	STROBE - CEILING MOUNT	CO 5. QU
<u>Š</u>	STROBE - WALL MOUNT	INT AR
HS	HORN STROBE - WALL MOUNT	
<b>I</b> IS	HORN STROBE - CEILING MOUNT	
SS	SPEAKER STROBE - WALL MOUNT	FIRE AL
ŚŚ	SPEAKER STROBE - CEILING MOUNT	1. VI 2. CE
T	TAMPER SWITCH	2.1. 2.1. 2.2.
WF	WATER FLOW SWITCH	3. <u>W</u>
FACP	FIRE ALARM CONTROL PANEL	3.1. 3.2.
ANN	FIRE ALARM ANNUNCIATOR	5.2. 4 M

### SECURITY PLAN SYMBOL LEGEND

R	READER
M	MOTION DETECTOR
KP	ALARM KEYPAD
DC	DOOR CONTACT
P	PANIC
GB	GLASS BREAK SENSOR
ES	ELECTRIC STRIKE
Û	INTERCOM
DR	DOOR RELEASE
A	DURESS ALARM BUTTON
BURG	BURGLAR PANEL
<b>C</b> w	WALL MOUNT CAMERA (ARROW INDICATES VIEW DIRECTION)
CCC	CEILING MOUNT CAMERA (ARROW INDICATES VIEW DIRECTION)

### FIRE ALARM SYSTEM SPECIFICATIONS

FIRE ALARM SYSTEM SHALL BE AN ADDRESSABLE SYSTEM THAT IS NONCODED, UL-LISTED, WITH MULTIPLEX SIGNAL TRANSMISSION AND HORN/STROBE EVACUATION. EVERY FIRE ALARM SYSTEM COMPONENT SHALL BE UL-LISTED AND UL-CERTIFIED, TESTED BY MANUFACTURERS AS A COMPLETE SYSTEM, AND MEET ALL APPLICABLE REQUIREMENTS OF

NFPA 72. ALL FIRE ALARM WIRING TO BE PLENUM RATED.

ALL INITIATING DEVICES INSTALLED IN UNCONDITIONED SPACES SHALL BE CONVENTIONAL DEVICES SUITABLE FOR USE IN EXTREME HIGH AND LOW TEMPERATURES AND HIGH HUMIDITY. SUCH DEVICES SHALL BE SUPERVISED BY ADDRESSABLE MONITOR MODULES LOCATED IN CONDITIONED SPACES.

QUANTITIES, TYPES, AND LOCATIONS OF INITIATING DEVICES AND OUTPUT MODULES FOR INTERCONNECTION WITH FIRE SUPPRESSION MUST BE COORDINATED WITH CONTRACTORS THAT ARE RESPONSIBLE FOR THOSE SYSTEMS.

### ALARM DEVICE TYPICAL LOCATIONS:

VERIFY EXACT LOCATIONS WITH LATEST NFPA REQUIREMENTS;

CEILING MOUNTED SMOKE / HEAT DETECTORS:

MUST BE MOUNTED AT LEAST 36" FROM HVAC GRILLES / DIFFUSERS MUST BE LOCATED AT LEAST 4" FROM WALL/CEILING INTERSECTIONS (MEASURED FROM EDGE OF DEVICE)

WALL MOUNTED SMOKE / HEAT DETECTORS:

MUST BE LOCATED AT LEAST 4" FROM WALL/CEILING INTERSECTIONS (MEASURED FROM EDGE OF DEVICE) MUST BE LOCATED WITHIN AT LEAST 12" FROM WALL/CEILING INTERSECTION (MEASURED FROM EDGE OF DEVICE)

4. <u>MANUAL PULL STATIONS</u>: 4.1. MUST BE LOCATED WITHIN 5' OF EXTERIOR DOORWAY (MEASURED FROM CENTER OF PULL STATION TO NEAREST EDGE OF DOOR) 4.2. MUST BE LOCATED BETWEEN 42" AND 54" A.F.F. (MEASURED FROM FINISH FLOOR TO

CENTER OFF PULL STATION) MAGNETIC DOOR HOLDER:

5.2.

8.2.

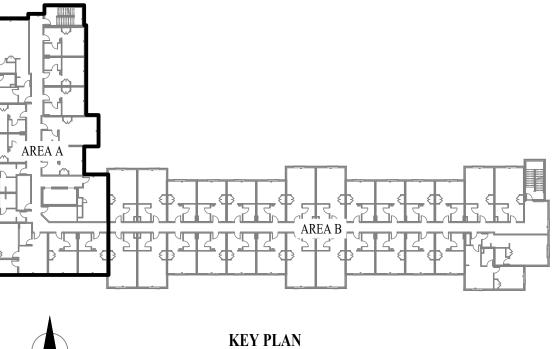
5.1. MUST BE LOCATED 6" BELOW TOP OF DOOR (MEASURED FROM TOP OF DOOR TO TOP OF DOOR HOLDER) MUST BE LOCATED DOOR WIDTH MINUS THREE INCHES FROM DOOR (MEASURED FROM NEAREST EDGE OF HOLDER TO NEAREST EDGE OF DOOR). 6. FIRE ALARM CONTROL PANEL:

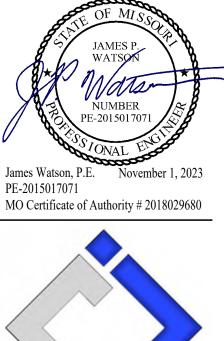
6.1. MUST BE LOCATED AT MAXIMUM OF 72" A.F.F. (MEASURED FROM FINISH FLOOR TO TOP OF FIRE ALARM CONTROL PANEL)

7. FIRE ALARM ANNUNCIATOR: 7.1. MUST BE LOCATED AT MAXIMUM OF 60" A.F.F. (MEASURED FROM FINISH FLOOR TO TOP OF

FIRE ALARM ANNUNCIATOR PANEL) 8. WALL MOUNTED STROBE DEVICES (VISUAL ONLY): 8.1. MUST BE LOCATED AT 84" A.F.F. (MEASURED FROM FINISH FLOOR TO BOTTOM OF BACK

BOX) MUST BE LOCATED AT MOST 24" FROM WALL/CEILING INTERSECTION WITHIN HANDICAP BEDROOMS (MEASURED FROM WALL/CEILING INTERSECTION TO BOTTOM OF BACK BOX) 9. WALL-MOUNTED HORN / STROBE DEVICES (AUDIBLE & VISUAL): 9.1. MUST BE LOCATED AT 84" A.F.F. (MEASURED FROM FINISH FLOOR TO BOTTOM OF BACK BOX)

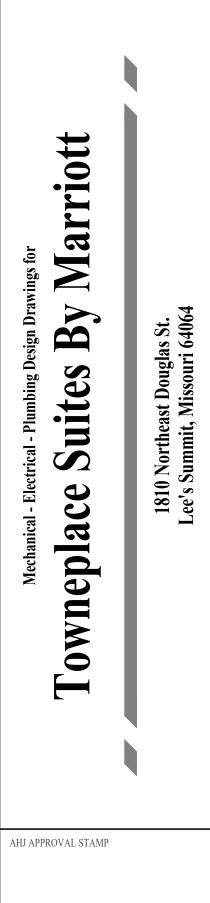






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J2 PROJECT No:	J21006
J2 DESIGN:	ACW
ISSUE TITLE	DATE
CITY SUBMISSION	11 / 01 / 2023



SHEET TITLE

## FIRE PROTECTION & SECURITY SYSTEM PLAN - 2ND-4TH FLOORS -AREA A

SHEET NUMBER



SCALE: 1" = 50 ft

F	MANUAL PULL STATION
Μ	MODULE
0	OUTPUT MODULE
SD	SMOKE DETECTOR
S	STROBE - CEILING MOUNT
<u>s</u>	STROBE - WALL MOUNT
HS	HORN STROBE - WALL MOUNT
Ŭ	HORN STROBE - CEILING MOUNT
SS	SPEAKER STROBE - WALL MOUNT
Š	SPEAKER STROBE - CEILING MOUNT
T	TAMPER SWITCH
WF	WATER FLOW SWITCH
FACP	FIRE ALARM CONTROL PANEL
ANN	FIRE ALARM ANNUNCIATOR

SECURITY PLAN SYMBOL LEGEN	D
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R	READER
M	MOTION DETECTOR
P	ALARM KEYPAD
C	DOOR CONTACT
P	PANIC
B	GLASS BREAK SENSOR
ES	ELECTRIC STRIKE
	INTERCOM
R	DOOR RELEASE
A	DURESS ALARM BUTTON
IRG	BURGLAR PANEL
W	WALL MOUNT CAMERA (ARROW INDICATES VIEW DIRECTION)
C	CEILING MOUNT CAMERA (ARROW INDICATES VIEW DIRECTION)





FIRE PROTECTION & SECURITY SYSTEM PLAN -1ST FLOOR - AREA B SCALE: 1/8" = 1'-0"

4.2. MUST BE LOCATED BETWEEN 42" AND 54" A.F.F. (MEASURED FROM FINISH FLOOR TO CENTER OFF PULL STATION) 5. MAGNETIC DOOR HOLDER: 5.1. MUST BE LOCATED 6" BELOW TOP OF DOOR (MEASURED FROM TOP OF DOOR TO TOP OF DOOR HOLDER) 5.2.

8. WALL MOUNTED STROBE DEVICES (VISUAL ONLY):

9. WALL-MOUNTED HORN / STROBE DEVICES (AUDIBLE & VISUAL):

STATION TO NEAREST EDGE OF DOOR)

FIRE ALARM SYSTEM SPECIFICATIONS

3. ALL FIRE ALARM WIRING TO BE PLENUM RATED.

ARE RESPONSIBLE FOR THOSE SYSTEMS.

FIRE ALARM DEVICE TYPICAL LOCATIONS:

3. WALL MOUNTED SMOKE / HEAT DETECTORS:

EDGE OF DEVICE)

EDGE OF DEVICE)

4. MANUAL PULL STATIONS:

BOX)

BOX)

8.2.

FROM EDGE OF DEVICE)

3.1.

3.2.

4.1.

CEILING MOUNTED SMOKE / HEAT DETECTORS:

VERIFY EXACT LOCATIONS WITH LATEST NFPA REQUIREMENTS;

2.1. MUST BE MOUNTED AT LEAST 36" FROM HVAC GRILLES / DIFFUSERS

NFPA 72.

CONDITIONED SPACES.

- MUST BE LOCATED DOOR WIDTH MINUS THREE INCHES FROM DOOR (MEASURED FROM NEAREST EDGE OF HOLDER TO NEAREST EDGE OF DOOR). 6. FIRE ALARM CONTROL PANEL:
- 6.1. MUST BE LOCATED AT MAXIMUM OF 72" A.F.F. (MEASURED FROM FINISH FLOOR TO TOP OF

1. FIRE ALARM SYSTEM SHALL BE AN ADDRESSABLE SYSTEM THAT IS NONCODED, UL-LISTED, WITH

MANUFACTURERS AS A COMPLETE SYSTEM, AND MEET ALL APPLICABLE REQUIREMENTS OF

2. EVERY FIRE ALARM SYSTEM COMPONENT SHALL BE UL-LISTED AND UL-CERTIFIED, TESTED BY

4. ALL INITIATING DEVICES INSTALLED IN UNCONDITIONED SPACES SHALL BE CONVENTIONAL DEVICES SUITABLE FOR USE IN EXTREME HIGH AND LOW TEMPERATURES AND HIGH HUMIDITY. SUCH DEVICES SHALL BE SUPERVISED BY ADDRESSABLE MONITOR MODULES LOCATED IN

5. QUANTITIES, TYPES, AND LOCATIONS OF INITIATING DEVICES AND OUTPUT MODULES FOR

INTERCONNECTION WITH FIRE SUPPRESSION MUST BE COORDINATED WITH CONTRACTORS THAT

2.2. MUST BE LOCATED AT LEAST 4" FROM WALL/CEILING INTERSECTIONS (MEASURED FROM

MUST BE LOCATED AT LEAST 4" FROM WALL/CEILING INTERSECTIONS (MEASURED FROM

MUST BE LOCATED WITHIN AT LEAST 12" FROM WALL/CEILING INTERSECTION (MEASURED

MUST BE LOCATED WITHIN 5' OF EXTERIOR DOORWAY (MEASURED FROM CENTER OF PULL

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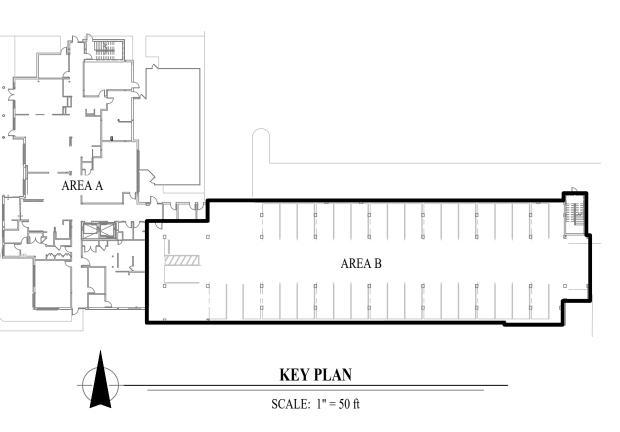
- FIRE ALARM CONTROL PANEL)

- 7. FIRE ALARM ANNUNCIATOR: 7.1. MUST BE LOCATED AT MAXIMUM OF 60" A.F.F. (MEASURED FROM FINISH FLOOR TO TOP OF
- FIRE ALARM ANNUNCIATOR PANEL)

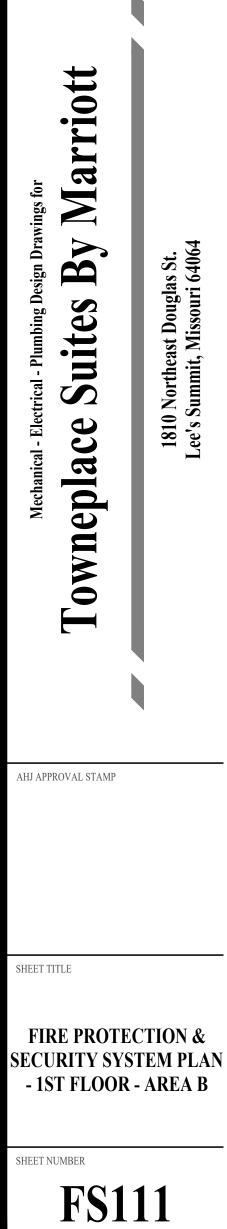
8.1. MUST BE LOCATED AT 84" A.F.F. (MEASURED FROM FINISH FLOOR TO BOTTOM OF BACK

9.1. MUST BE LOCATED AT 84" A.F.F. (MEASURED FROM FINISH FLOOR TO BOTTOM OF BACK

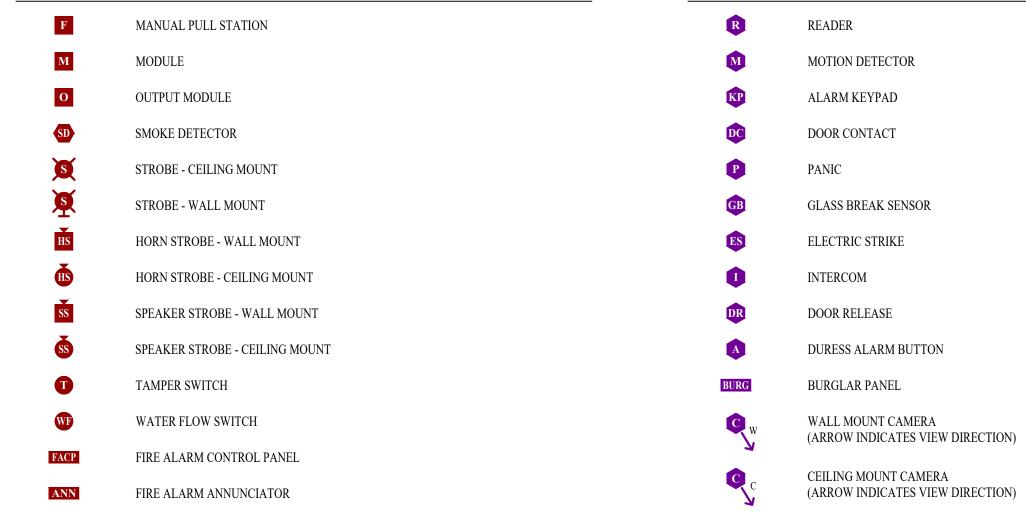
MUST BE LOCATED AT MOST 24" FROM WALL/CEILING INTERSECTION WITHIN HANDICAP BEDROOMS (MEASURED FROM WALL/CEILING INTERSECTION TO BOTTOM OF BACK BOX)

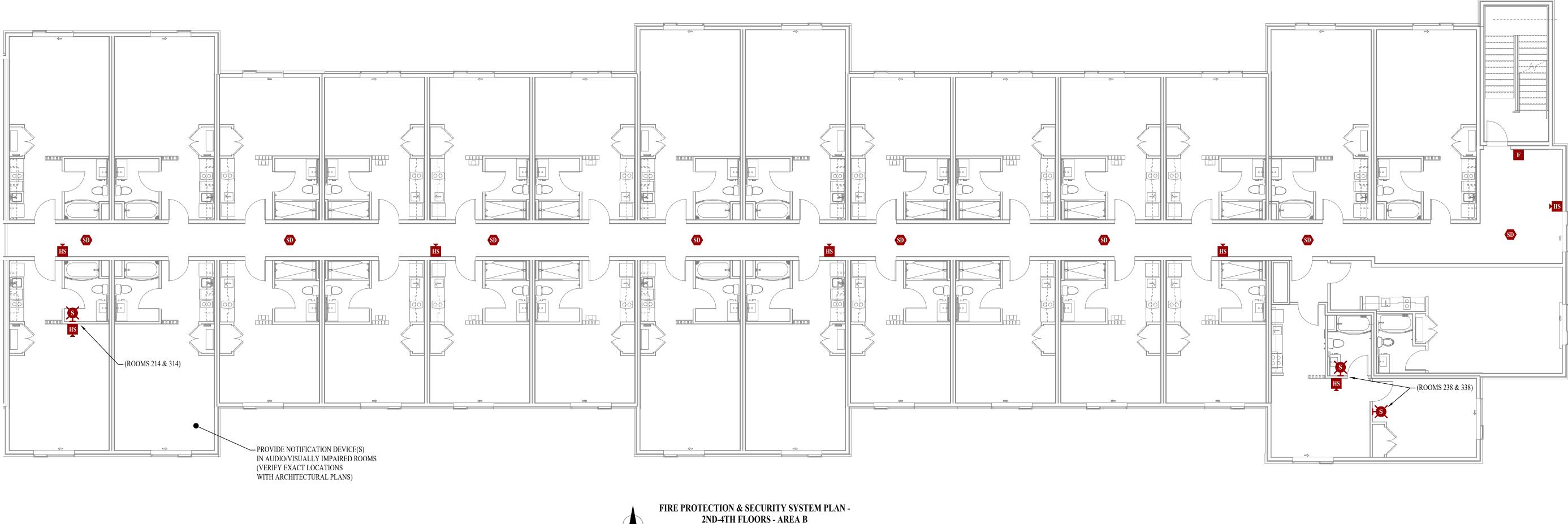






SECURITY PLAN SYMBOL LEGEN	D
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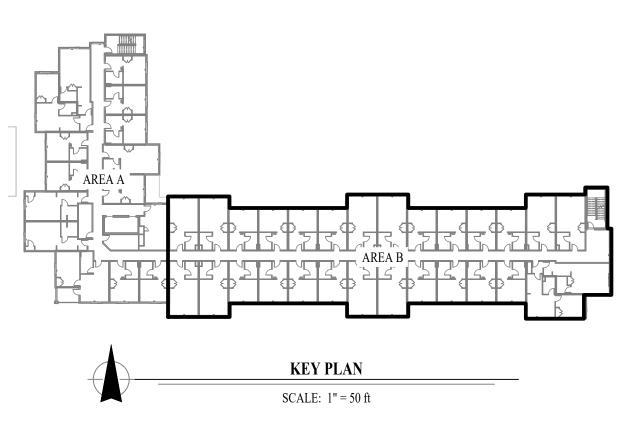
### FIRE ALARM SYSTEM SPECIFICATIONS

- 1. FIRE ALARM SYSTEM SHALL BE AN ADDRESSABLE SYSTEM THAT IS NONCODED, UL-LISTED, WITH MULTIPLEX SIGNAL TRANSMISSION AND HORN/STROBE EVACUATION.
- 2. EVERY FIRE ALARM SYSTEM COMPONENT SHALL BE UL-LISTED AND UL-CERTIFIED, TESTED BY MANUFACTURERS AS A COMPLETE SYSTEM, AND MEET ALL APPLICABLE REQUIREMENTS OF NFPA 72.
- 3. ALL FIRE ALARM WIRING TO BE PLENUM RATED.
- 4. ALL INITIATING DEVICES INSTALLED IN UNCONDITIONED SPACES SHALL BE CONVENTIONAL DEVICES SUITABLE FOR USE IN EXTREME HIGH AND LOW TEMPERATURES AND HIGH HUMIDITY. SUCH DEVICES SHALL BE SUPERVISED BY ADDRESSABLE MONITOR MODULES LOCATED IN CONDITIONED SPACES.
- 5. QUANTITIES, TYPES, AND LOCATIONS OF INITIATING DEVICES AND OUTPUT MODULES FOR INTERCONNECTION WITH FIRE SUPPRESSION MUST BE COORDINATED WITH CONTRACTORS THAT ARE RESPONSIBLE FOR THOSE SYSTEMS.

### FIRE ALARM DEVICE TYPICAL LOCATIONS:

- 1. VERIFY EXACT LOCATIONS WITH LATEST NFPA REQUIREMENTS;
- <u>CEILING MOUNTED SMOKE / HEAT DETECTORS</u>:
   <u>MUST BE MOUNTED AT LEAST 36" FROM HVAC GRILLES / DIFFUSERS</u>
   <u>MUST BE LOCATED AT LEAST 4" FROM WALL / CEILING INTERSECTIONS (MEASURED )</u>
- 2.2. MUST BE LOCATED AT LEAST 4" FROM WALL/CEILING INTERSECTIONS (MEASURED FROM EDGE OF DEVICE)
  3. WALL MOUNTED SMOKE / HEAT DETECTORS:
- 3.1. MUST BE LOCATED AT LEAST 4" FROM WALL/CEILING INTERSECTIONS (MEASURED FROM
- EDGE OF DEVICE) 3.2. MUST BE LOCATED WITHIN AT LEAST 12" FROM WALL/CEILING INTERSECTION (MEASURED FROM EDGE OF DEVICE)
- 4. MANUAL PULL STATIONS:
- 4.1. MUST BE LOCATED WITHIN 5' OF EXTERIOR DOORWAY (MEASURED FROM CENTER OF PULL STATION TO NEAREST EDGE OF DOOR)
- 4.2. MUST BE LOCATED BETWEEN 42" AND 54" A.F.F. (MEASURED FROM FINISH FLOOR TO
- CENTER OFF PULL STATION) 5. MAGNETIC DOOR HOLDER:
- 5.1. MUST BE LOCATED 6" BELOW TOP OF DOOR (MEASURED FROM TOP OF DOOR TO TOP OF DOOR HOLDER)
- 5.2. MUST BE LOCATED DOOR WIDTH MINUS THREE INCHES FROM DOOR (MEASURED FROM NEAREST EDGE OF HOLDER TO NEAREST EDGE OF DOOR).
  6. FIRE ALARM CONTROL PANEL:
- 6.1. MUST BE LOCATED AT MAXIMUM OF 72" A.F.F. (MEASURED FROM FINISH FLOOR TO TOP OF FIRE ALARM CONTROL PANEL)
  7. FIRE ALARM ANNUNCIATOR:
- 7.1. MUST BE LOCATED AT MAXIMUM OF 60" A.F.F. (MEASURED FROM FINISH FLOOR TO TOP OF FIRE ALARM ANNUNCIATOR PANEL)
- 8. WALL MOUNTED STROBE DEVICES (VISUAL ONLY):
   8.1. MUST BE LOCATED AT 84" A.F.F. (MEASURED FROM FINISH FLOOR TO BOTTOM OF BACK BOX)
- 8.2. MUST BE LOCATED AT MOST 24" FROM WALL/CEILING INTERSECTION WITHIN HANDICAP BEDROOMS (MEASURED FROM WALL/CEILING INTERSECTION TO BOTTOM OF BACK BOX)
- 9. <u>WALL-MOUNTED HORN / STROBE DEVICES (AUDIBLE & VISUAL)</u>:
   9.1. <u>MUST BE LOCATED AT 84" A.F.F. (MEASURED FROM FINISH FLOOR TO BOTTOM OF BACK BOX)</u>

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

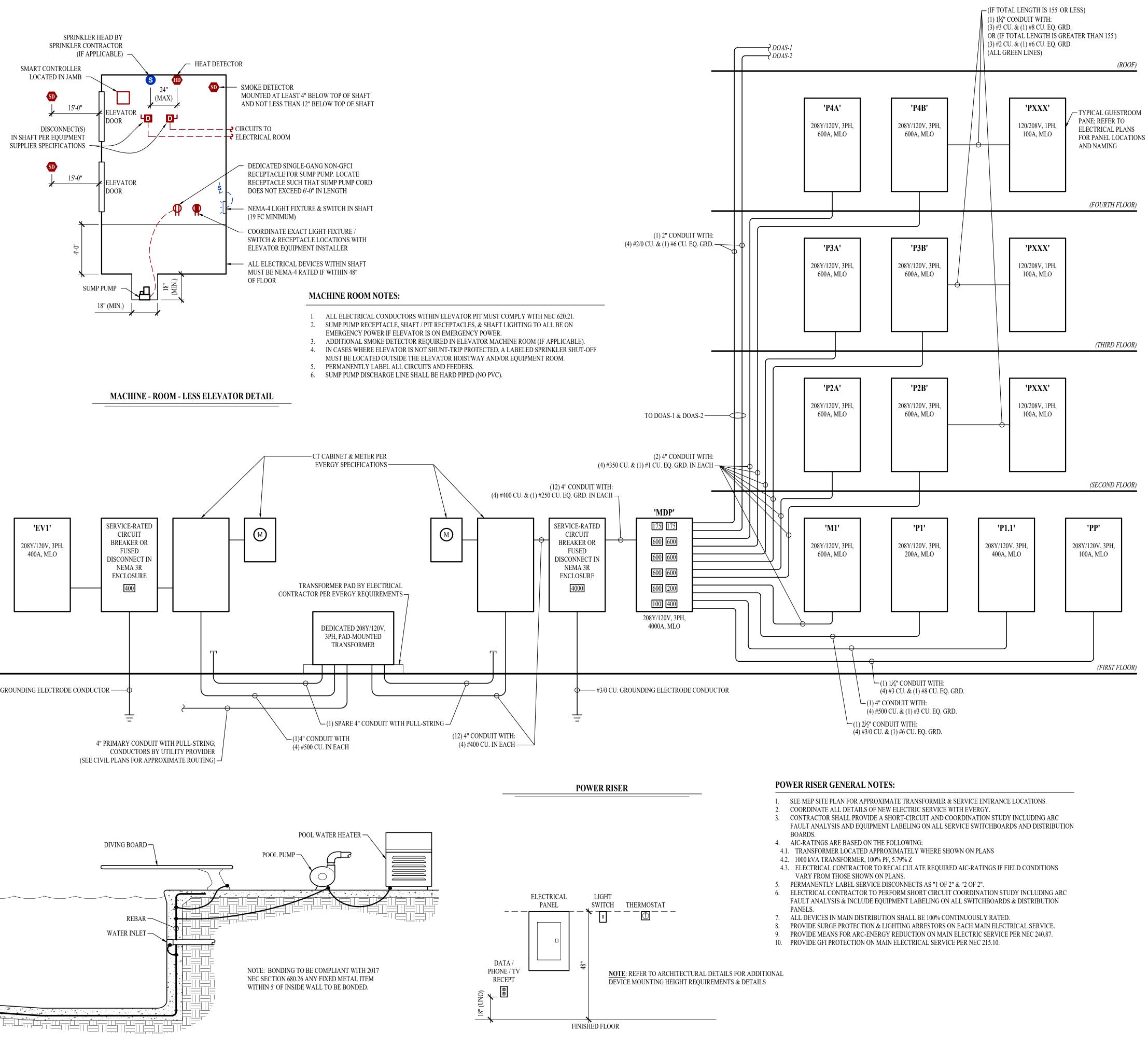


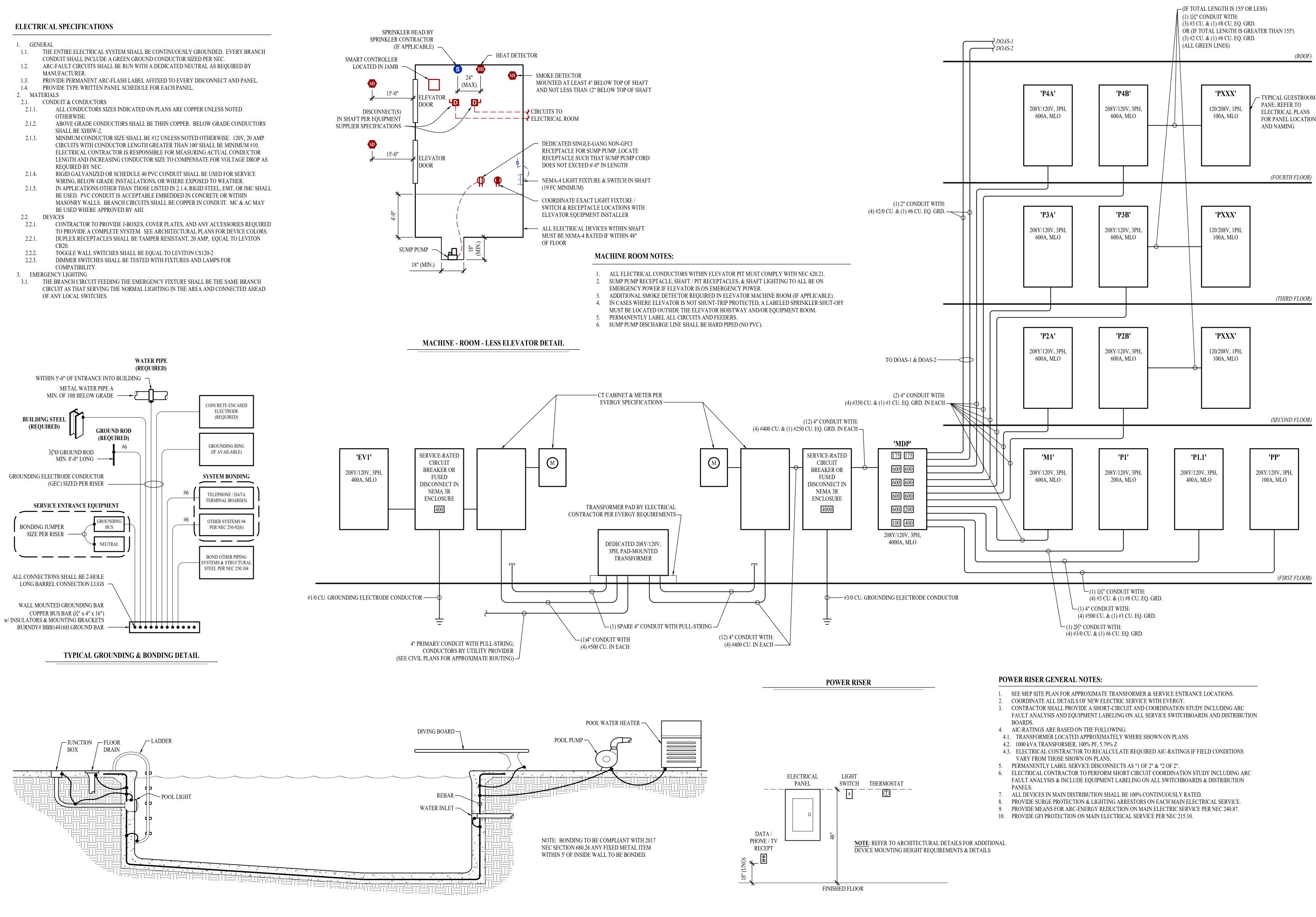


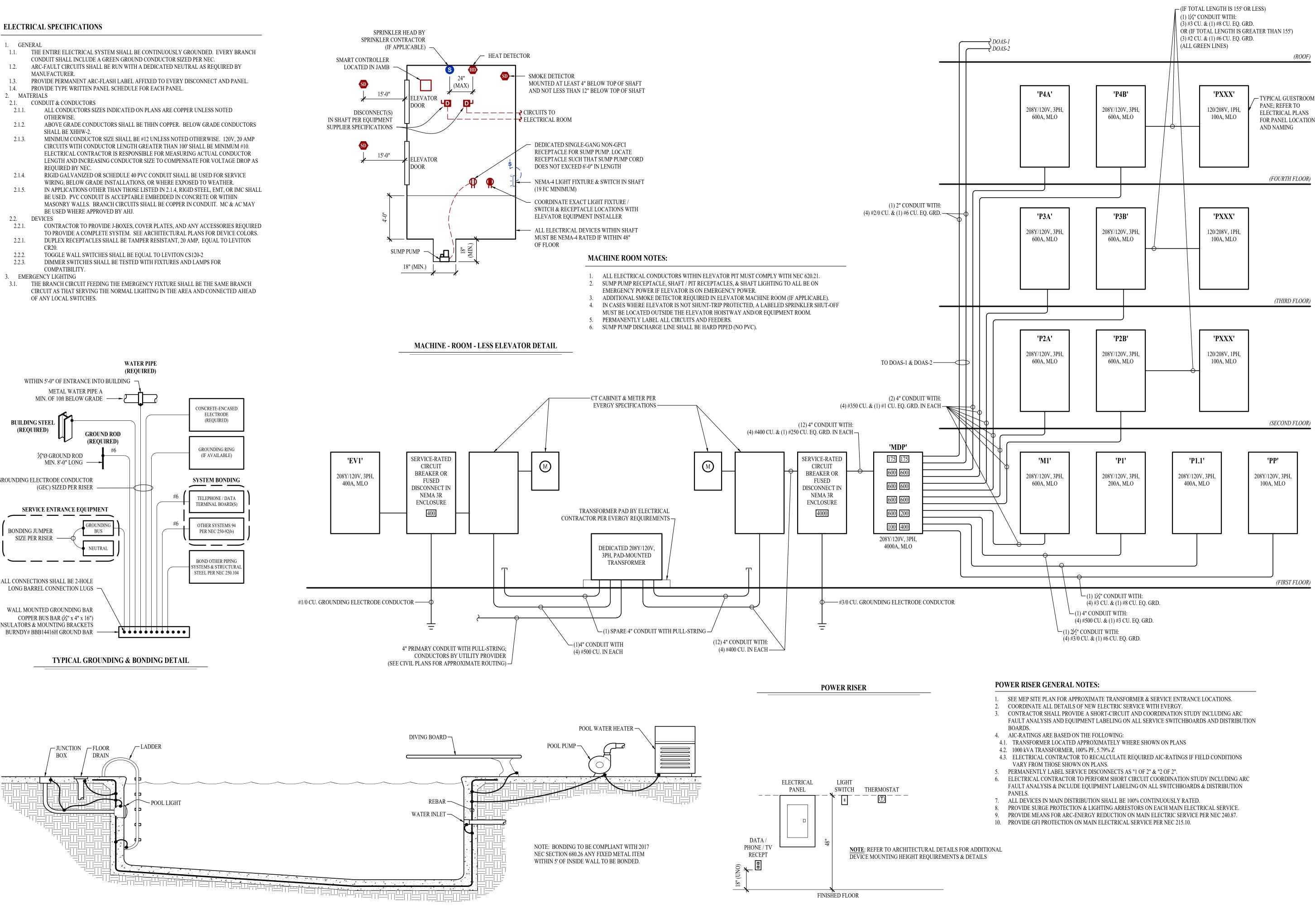
riott N Suites **M** 1810 Nort Jee's Sumn Towneplace Me AHJ APPROVAL STAMP SHEET TITLE FIRE PROTECTION & SECURITY SYSTEM PLAN - 2ND-4TH FLOORS -AREA B SHEET NUMBER **FS112** 

- CONDUIT SHALL INCLUDE A GREEN GROUND CONDUCTOR SIZED PER NEC.
- PROVIDE PERMANENT ARC-FLASH LABEL AFFIXED TO EVERY DISCONNECT AND PANEL.

- MINIMUM CONDUCTOR SIZE SHALL BE #12 UNLESS NOTED OTHERWISE. 120V, 20 AMP CIRCUITS WITH CONDUCTOR LENGTH GREATER THAN 100' SHALL BE MINIMUM #10. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR MEASURING ACTUAL CONDUCTOR REQUIRED BY NEC.
- WIRING, BELOW GRADE INSTALLATIONS, OR WHERE EXPOSED TO WEATHER. BE USED. PVC CONDUIT IS ACCEPTABLE EMBEDDED IN CONCRETE OR WITHIN MASONRY WALLS. BRANCH CIRCUITS SHALL BE COPPER IN CONDUIT. MC & AC MAY
- TO PROVIDE A COMPLETE SYSTEM. SEE ARCHITECTURAL PLANS FOR DEVICE COLORS. DUPLEX RECEPTACLES SHALL BE TAMPER RESISTANT, 20 AMP, EQUAL TO LEVITON
- TOGGLE WALL SWITCHES SHALL BE EQUAL TO LEVITON CS120-2
- COMPATIBILITY.
- CIRCUIT AS THAT SERVING THE NORMAL LIGHTING IN THE AREA AND CONNECTED AHEAD OF ANY LOCAL SWITCHES.



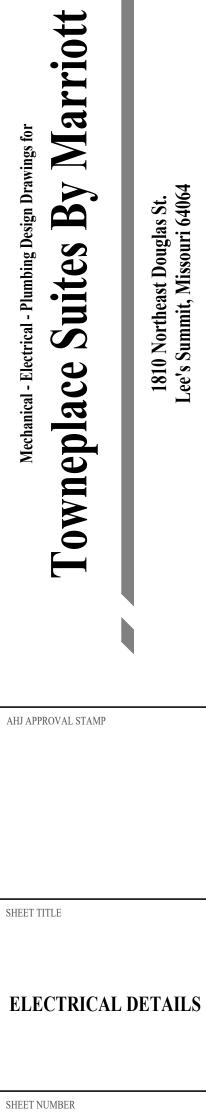




### POOL AREA EQUIPOTENTIAL BONDING DETAIL

TYPICAL ADA MOUNTING HEIGHTS DETAIL (ADA GUESTROOMS ONLY)

JAMES P. WATSON			
NUMBER PE-2015017071 James Watson, P.E. November 1, 2023 PE-2015017071 MO Certificate of Authority # 2018029680			
J-SQUARED Engineering			
2400 Bluff Creek Drive, Suite 101 Columbia, Missouri 65201 573 - 234 - 4492 phone www.j-squaredeng.com			
J2 PROJECT No:	J21006		
J2 DESIGN:	ACW		
ISSUE TITLE	DATE		
CITY SUBMISSION	11 / 01 / 2023		
lott			





VOLTAGE	PANEL	SIZE	MOU	NTENG	AIC RATING		
208Y/120V 3-PH						PHASE "A" LOAD	2759
2081/1209 3-111	4000A MLO		SURFACE		65,000	PHASE "B" LOAD	2789
NEMA RATING 1						PHASE "C" LOAD	2472
DESCRIPTION	BREAKER SIZE	AMPS	PHASE	AMPS	BREAKER SIZE	DESCRIPTION	
PANEL'P2A'	600-3	366	A	137	175-3	DOAS-1	
-	-	366	В	137	-	-	
a de la companya de l		366	С	137	-	5	
PANEL 'P2B'	600-3	426	А	137	175-3	DOAS-2	
- · · · · · · · · · · · · · · · · · · ·	-	421.5	В	137	•	•	
-	-	351	C	137	u	-	
PANEL P3A'	600-3	366	А	529	600-3	PANEL'MI	<u>2239</u> 033
-	-	366	В	553	-		
	10.000 <b>-</b> 0000	366	С	510	-	• · · · · · · · · · · · · · · · · · · ·	
PANEL'P3B'	600-3	426	A	155	200-3	PANEL 'PI'	
		421.5	В	158.5	-	-	
	-	351	C	150.5	-	- 	
PANEL/P4A'	600-3	366	A	204	400-3	PANEL'PL1'	
-	-	366	B	230.5	•		
-	-	366	С	183			
PANEL 'P4B'	600-3	426	Λ	32.5	100-3	PANEL 'PP'	*****
-		427,5	В	17			
-	-	351	C	]6	-	-	u da
OPEN		i ( <i>1997), 1997), 1997</i> 1	A			OPEN	
OPEN			В	Stanonika sesta		OPEN	21022000
OPEN			C			OPEN	URIANS.
OPEN			A			OPEN	ioznicznie
OPEN OPEN		[]?////////////////////////////////////	B C			OPEN	

A: PANEL SHALL BE EQUAL TO SQUARE D "QED-2" SERIES SWITCHBOARD

 $\mathbf{B}_{\mathrm{I}}$  = Electrician shall verify breaker with equipment prior to purchase & install.

C: AFTER COMPLETION OF WORK, ELECTRICAN SHALL PROVIDE A TYPE WRITTEN PANEL DIRECTORY IN NEW PANEL.
 D: GUESTROOM ELECTRICAL LOADS AND DISTRIBUTION PANEL LOADS HAVE BEEN CALCULATED PER NEC ARTICLE 220

	VOLTAGE	PANEL	SIZE	MOU	NTING	AIC RATING		
	120/208V 1-PH	100A 1	100A MLO		RECESSED		PHASE "A" LOAD PHASE "B" LOAD	84.5 78
	NEMA RATING 1	1						
CIRCUIT NUMBER	DESCRIPTION	BREAKER SIZE	AMPS	PHASE	AMPS	BREAKER SIZE	DESCRIPTION	CIRCUI NUMBER
1	BATHROOM	20-1	1.5	A	20	30-2	COOKTOP	2
3	CONVENIENCE RECEPTS	15-1	10	В	20	-	-	4
5	CONVENIENCE RECEPTS	15-1	10	A	16	20-2	PTAC	6
7	KITCHENETTE RECEPTS.	20-1	8	В	16	-	-	8
9	KITCHENETTE RECEPTS	20-1	8	A	8	20-1	DISHWASHER/DISPOSAL	10
[]	MICROWAVE/RANGE/HOOD	20-1	8	В		20-1	SPARE	12
13	LIGHTING	15-1	5	A			OPEN	14
15	SPARE	15-1		В			OPEN	16
17	OPEN			A	16	20-2	PTAC (IF APPLICABLE)	18
19	OPEN	1	[	В	16	-		20

 $|\mathbf{B}_i|$  = Electrician shall verify breaker with equipment prior to purchase & install.

C: AFTER COMPLETION OF WORK, ELECTRICAN SHALL PROVIDE A TYPE WRITTEN PANEL DIRECTORY IN NEW PANEL. D: ··· OUTLETS SHOWN ABOVE IN *BOLD ITALIC FONT* SHALL BE AFCI PROTECTED

		PA	NEL 'E	ZV1' SC	CHEÐU	JLE		
	VOLTAGE	PANEL	SIZE	MOU	VTING	AIC RATING		
	208Y/120V 3-PH		VILO	SURI	ACE	22.000	PHASE "A" LOAD PHASE "B" LOAD	200 120
NEMA RATING: 1 CRCUIF DESCRIPTION		BREAKER AMPS		PHASE AMPS		BREAKER SIZE	PHASE "C" LOAD DESCRIPTION	120 CIRCUII NUMBER
1	EXTERIOR EV-CHARGING STATION	50-2	40	A	40	50-2	GARAGE EV-CHARGING STATION	2
3	-	-	40	В	40	-	-	4
5	EXTERIOR EV-CHARGING STATION	50-2	40	C	40	50-2	GARAGE EV-CHARGING STATION	6
7	-	-	40	А	40	-	-	8
9	EXTERIOR EV-CHARGING STATION	50-2	40	В		50-2	SPARE	10
11	<u>.</u>	-	40	C		-	*	12
13	EXTERIOR EV-CHARGING STATION	50-2	40	A		50-2	SPARE	14
15	-	-		В		-	-	16
17	OPEN			C			OPEN	18
19	<u> OPEN</u>			Λ			OPI'N	20
21	OPEN			В			OPEN	22
23	OPEN			C			OPEN	24
25	OPEN			A			OPEN	26
27	OPEN			В			OPEN	28
29	OPEN			C			OPEN	30

A: PANEL SHALL BE EQUAL TO SQUARE D MODEL "QO"
 B: ELECTRICIAN SHALL VERIFY BREAKER WITH EQUIPMENT PRIOR TO PURCHASE & INSTALL.

C: ···· AFTER COMPLETION OF WORK, ELECTRICAN SHALL PROVIDE A TYPE WRITTEN PANEL DIRECTORY IN NEW PANEL. ·

		POOL	PANE	L'PP'	SCHE	EDULE		
	VOLTAGE		PANEL SIZE		MOUNTING			
	208Y/120V 3-PH						PHASE "A" LOAD	32.5
		100A N	ALO	RECSI	ESSED	10.000	PHASE "B" LOAD	17
	NEMA RATING: 3R						PHASE "C" LOAD	16
CIRCUIT NUMBER	DESCRIPTION	BREAKER SIZE	AMPS	PHASE	AMPS	BREAKER SIZE	DESCRIPTION	CIRCUIT NUMBER
1	POOL STORAGE RECEPTS.	20-1	4.5	A	14	20-2	WALLHEATER	2
3	POOL EQUIPMENT RECEPTS.	20-1	3	В	14	_	•	4
5	LIGHTING	20-1	2	С	14	20-2	WALL HEATER	6
7	SPARE	20-1		Λ	14	-	-	8
9	SPARE	20-1		В			OPEN	10
11	SPARE	20-1		С			OPEN	12
13	SPARE	20-1		А			OPEN	14
15	SPARE	20-1		В			OPEN	16
17	SPARE	20-1		С			OPEN	18
19	SPARE	20-1		A			OPEN	20
21	SPARE	20-1		В			OPEN	22
23	SPARE	20-1		С			OPEN	24

A. PANEL SHALL BE EQUAL TO SQUARE D MODEL "QO"

 $B_1 = \frac{1}{2}$  ELECTRICIAN SHALL VERIFY BREAKER WITH EQUIPMENT PRIOR TO PURCHASE & INSTALL  $C_1 = 0$  AFTER COMPLETION OF WORK, ELECTRICAN SHALL PROVIDE A TYPE WRITTEN PANEL DIRECTORY IN NEW PANEL.

	AIC RATING	TING	MOUN	SIZE	PANEL	VOLTAGE	
PHASE*A* LOAD						208Y/120V 3-PH	
PHASE "B" LOAD	42,000	ACE	SURF	ALO –	600A N		
PHASE "C" LOAD						NFMA RATING: 1	
DESCRIPTION	BREAKER SIZE	AMPS	PHASE	AMPS	BREAKER SIZE	DESCRIPTION	RCUIT MBER
AHU-7	60-2	48	A	24	35-2	AHU-1	1
	-	48	В	24	-	-	3
QU-7	45-2	27	C	12	20-2	CU-1	5
-	-	27	A	12	-		7 2000
AHU-8	35-2	33	B C	24	35-2	AHU-2	9
- CU-8	20-2		A	24 12	- 20-2	- CU-2	11
CU-8		12	B	12	-	CU-2	15
AHU-9	60-2	48	C	48	60-2	AHU-3	17
	-	48	$\Lambda$	48	SUBSEL NY AND D	-	19
CU-9	25-2	17	В	27	45-2	CU-3	21
-	-	17	C	27	-	-	23
AHU-10	35-2	33	A	24	35-2	AHU-4	25
-	-	33	В	24	-	-	27
CU-10	30-2	18	C	18	30-2	CU-4	29
-	-	18	A.	18	-	-	31
AHU-11	60-2	48	В	48	60-2	AHU-5	33
-	-	48	C	48	-	-	35
CU-11	30-2	19	A	19	30-2	CU-5	37
-	-	19	В	19	-	-	39
SPARE	20-1		C	24	35-2	AHU-6	41
WATER HEATER	20-1	8	Λ	24	-	-	43
SPARE	20-1		В	48	60-2	AHU-6	45
SPARE	20-1		C	48	- 590590-5905-5900-59		47 2002/06/2010
WATER HEATER	20-1	8	A	33	50-2	CU-6	49
SPARE	20-1	///////////////////////////////////////	B	33	-	-	51
SPARE WATER HEATER	20-1	<u></u>	C	14	20-3	GARAGE HEATER	53 55
SPARE	20-1	8	<u>л</u> В	14 14	- 88002800000000	-	57
SPARE	20-1		ъ С	14	- 20-3	GARAGE HEATER	59
WATERHEATER	20-1	8	A	14		- CARACIALATIA	61
SPARE	20-1		В	14		-	63
SPARE	20-1		C	14	20-3	GARAGE HEATER	65
WATER HEATER	20-1	8	A	14	-	-	67
SPARE	20-1		В	14	-		69
SPARE	20-1		С	14	20-3	GARAGE HEATER	71
WATER FILTRATION SYSTEM	20-1		A	14		-	73
WALLHEATER	20-2	14	β	14	-		75
	-	14	C			OPEN	77
WALLHEATER	20-2	14	Δ			OPEN	79
1	-	14	В			OPEN	81
SPARE	20-1		С			OPEN	83

B: ELECTRICIAN SHALL VERIFY BREAKER WITH EQUIPMENT PRIOR TO PURCHASE & INSTALL.

 $|\mathbf{C}|_{\mathbf{C}}$  = AFTER COMPLETION OF WORK, ELECTRICAN SHALL PROVIDE A TYPE WRITTEN PANEL DIRECTORY IN NEW PANEL.

	VOLTAGE
	208Y/120V 3-PH
· · · · · · · · · · · · · · · · · · ·	NEMA RATING: 1
CIRCUIT NUMBER	ÐFSCRIPTI
1	ELECTRICAL ROOM
3	FIRE ALARM CONTROL
5	IRRIGATION CO
7	MECHANICAL ROO
9	FLEX RECEP
11	CORRIDOR RE
13	ICE MACHI
15	FLEX RECEI
17	COMMUNITYR
19	COMMUNITYR
21	HUB RECEP FITNESS EQUIT
23	FITNESS EQUIP
27	FITTNESS EQUI
29	FITNESS EQUIP
31	FITNESS EQUIF
33	FITNESS RECI
35	FITNESS RECI
37	FITNESS EQUIP
39	FITNESS EQUIP
41	CORRIDOR REC
43	VESTIBULE REC
45	WELCOME DESK
47	WELCOME DESK
49	WELCOME DESK
51 63	GENERAL MANAGE
<u>53</u> 55	SALES OFFICE R FTINESS HYDRATIO
57	WORK ROOM R
59	WORK ROOM R
61	TIMELOCI
63	IN-A-PINCH EQU
65	IN-A-PINCH EQU
67	IN-A-PINCH EQU
69	IN-A-PINCH EQU
71	RESTROOM RE
73	MEETING ROOM 1
75 200 <b>-11</b>	MEETING ROOM 1
<u>77</u> 79	MEETINGROOM I
79 81	BACK OF HOUSE RESTI BREAK ROOM R
83	GUEST LAUNDRY
NO TES:	
A:	PANEL SHALL BE EQUAL TO SC
<b>B</b> :	ELECTRICIAN SHALL VERIFY B
C:	AFTER COMPLETION OF WORK

				HEDU	Mad Rad		
	PANEL	SIZE	MOU	NTING	AIC RATING		_
						PHASE "A" LOAD	155
	200A N	ALO	SURI	FACE	22,000	PHASE "B" LOAD	158.5
						PHASE "C" LOAD	150.5
N	BREAKER SIZE	AMPS	PHASE	AMPS	BREAKER SIZE	DESCRIPTION	CIRCUII NUMBER
RECEPTS.	20-1	4.5	A	4	20-2	POLELIGHTS	2
PANEL (FACP)	20-1	3	В	ä	-	-	4
TROLS	20-1	3	C	8	20-1	MONUMENT SIGN	6
RECEPTS.	20-1	4.5	Λ	8	20-1	MONUMENT SIGN	8
S.	20-1	6	В	8	20-1	MONUMENT SIGN	10
PTS.	20-1	6	С	8	20-1	ILLUMINATED BOLLARDS	12
E	20-1	8	A	4.5	20-1	EXTERIOR RECEPTS.	14
S.	20-1	4.5	В	6	20-1	EXTERIOR RECEPTS.	16
EPTS.	20-1	7.5	С	3	20-1	EXTERIOR RECEPTS.	18
CEPTS.	20-1	9	A	5	20-1	SMOKE CURTAIN	20
<u>s.</u>	20-1	4,5	В	5	20-1	SMOKE CURTAIN	22
IENT	20-1	8	С	8	20-1	GUEST LAUNDRY WASHING MACHINE	24
IENT	20-1	8	A	8	20-1	GUEST LAUNDRY WASHING MACHINE	26
MENT	20-1	8	В	8	20-1	GUEST LAUNDRY WASHING MACHINE	28
IENT	20-1	8	С	22	30-2	GUEST LAUNDRY DRYER	30
IENT	20-1	8	A	22		•	32
TS.	20-1	7.5	В	22	30-2	GUEST LAUNDRY DRYER	34
TS.	20-1	6	C	22	2003000000000000000000		36
IS. IENT	20-1	8	aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa	22	30-2	GUEST LAUNDRY DRYER	38
IENT	20-1	8	A B	22		COLST ENORMAN DATEX	40
PTS.	20-1	7.5	C		20-1	ELEVATOR SUMP PUMP	40
PTS	20-1	3	Λ	1.5	20-1	ELEVATOR BUNIT FORM	44 44
CEPTS.		-3	B	5	20-1	STRINGLIGHTING	annasannan
CEPTS.	20-1						46
	20-1	3	C	1	20-1	GAS VALVE	48
CEPTS	20-1	3	A		20-1	SPARE	50
RECEPTS.	20-1	6	B	Sillezamsteri	20-1	SPARE ODADE	52 52
EPTS.	20-1	4.5	<u> </u>		20-1	SPARE	54
STATION	20-1	5	A 96005-50670		20-1	SPARE	56
EPTS.	20-1	6	В		20-1	SPARE	58
DEPT.	20-1	1.5	C terminapontation		20-1	SPARE	60
· · · · · · · · · · · · · · · · · · ·	20-1		Δ.		20-1	SPARE	62
MENT	20-1	5 2200000000000000000000000000000000000	В	7.6115.6 <i>0.000</i> .00077	20-1	SPARE	64 30200202020
MENT	20-1	5	C		20-1	SPARE	66
MENT	20-1	5	A			OPEN	68
MENT	20-1	5	В			OPEN	70
PTS.	20-1	3	С	*****		OPEN	72
CEPTS	20-1	7,5	Α			OPEN	74
CEPTS.	20-1	3	В	deriver and the second		OPEN	76
CEPTS.	20-1	4,5	C			OPEN	78
OM RECEPT.	20-1	1.5	A			OPEN	80
CEPTS.	20-1	9	В			OPEN	82
ECEPTS.	20-1	3	С	1		OPEN	84

SQUARE D MODEL "QO"

' BREAKER WITH EQUIPMENT PRIOR TO PURCHASE & INSTALL. RK, ELECTRICAN SHALL PROVIDE A TYPE WRITTEN PANEL DIRECTORY IN NEW PANEL.



Rechanical - Plumbing Design Drawings for Towneeplace Suites By Marriott BIO Northeast Douglas St. Lee's Summit, Missouri 64064

**E601** 

TRCUIT WMBER	VOLTAGE 208Y/120V 3-PH	PANEL		1	NTENG	AIC RATING	1	
UMBER	208Y/120V 3-PH					:	PHASE "A" LOAD	204
UMBER		400A N	MLO	SUR	FACE	42,000	PIJASE "B" LOAD	230.5
UMBER	NEMA RATING: 1						PHASE "C" LOAD	183
asanasanaan a	DESCRIPTION	BREAKER SIZE	AMPS	PHASE	AMPS	BREAKER SIZE	DESCRIPTION	CIRCUI NUMBE
1	BUFFET EQUIPMENT	20-1	8	A	20	30-2	WASHING MACHINE	2
3	BUFFET EQUIPMENT	20-1	8	В	20	-	-	4
s [	BUFFET EQUIPMENT	20-1	8	С			OPEN	6
7	BUFFET EQUIPMENT	20-1	8	A			OPEN	8
9	BUFFET EQUIPMENT	20-1	8	В	20	30-2	WASHINGMACHINE	10
11	BUFFET EQUIPMENT	20-1	8	С	20	-	-	12
13	BUFFET EQUIPMENT	20-1	8	A	10	20-1	DRYER	14
15	BUFFLT EQUIPMENT	20-1	8	В	10	20-1	DRYER	16
17	BUFFET EQUIPMENT	20-1	8	C			OPEN	18
19	BUFFET EQUIPMENT	20-1	8	Λ	42	60-3 ST	ELEVATOR	20
21	BUFFET EQUIPMENT	20-1	8	В	42	-	-	22
23	EXTERIOR RECEPTS.	20-1	3	С	42	-	_	24
25	ACCESS CONTROL GATE	20-1	5	A		ST	SHUNT TRIP SPACE	26
27	ACCESS CONTROL GATE	20-1	5	B	5	20-1 ST	ELEVATOR LIGHTS & MISC.	28
29	SPARE	20-1		С		ST	SHUNT TRIP SPACE	30
31	LAUNDRY RECEPTS.	20-1	7.5	Λ			OPEN	32
33	LAUNDRY RECEPTS.	20-1	4.5	В	42	60-3.ST	ELEVATOR	34
35	LAUNDRY RECEPTS.	20-1	3	С	42	-	n	36
37	BREAK ROOM RECEPT	20-1	5	A	42	- -	-	
39	BREAK ROOM RECEPT.	20-1	5	B	<u></u>	ST	SHUNT TRIP SPACE	40
41	BREAK ROOM RECEPT	20-1	5	C	5	20-1 ST	ELEVATOR LIGHTS & MISC.	42
43	BREAK ROOM RECEPT.	20-1	5	A	,	•	SITUNT TRIP SPACE	44
45	EXTERIOR RECEPTS	20-1	6	В			OPEN	46
47	GARAGE RECEPTS.	20-1	3	С			OPEN	48
49	GARAGE RECEPTS	CONSCRETE VIDEO DA CONSCRETA S	3	A			OPEN	50
51	STAIR LIGHTING	20-1	5	B	>>nsimininiyyini		OPEN	52
53	STAIR LIGHTING	20-1	5	С			OPEN	54
55	INTERIOR LIGHTING	20-1	10	A	<i>x/y/iiii/y///iiiiiiiiiiiiii</i> /ii		OPEN	56
57	INTERIOR LIGHTING	20-1	10	В			OPEN	58
59	INTERIOR LIGHTING	20-1	10	С	2:22:0000000000000000000000000000000000	27.2000	OPEN	60
61	EXTERIOR LIGHTING	20-1	10	A			OPEN	62
63	SPARE	20-1	······	В			OPEN	64
65	SPARE	20-1		C			OPEN	66
67	FOOD PREP COUNTER RECEPTS.	20-1	<u>3</u>	A			OPEN	68
69	FOOD PREP REFRIGERA TOR	20-1	8	В			OPEN	70
71	FOOD PREP COFFEE MAKER	20-1	8	C	0.0000000000000000000000000000000000000		OPIN	72
73	FOOD PREP COUNTER RECEPT.	20-1	1.5	A			OPEN	74
75	FOOD PREP MICROWA VE	20-1	8	B	estran katri ki		OPEN	10////////////////////////////////////
77	FOOD PREP DISHWASHER	20-1	8	C			OPEN	78
79	FOOD PREP REFRICERATOR	20-1	8	A	ptransisti (k	2224072300002776327	OPEN	80
81	FOOD PREP REFRIGERATOR	20-1	8	B			OPEN	82
83	FOOD PREP RECEPTS.	20-1	5	C	enansisistestis		OPEN	84 84

 ${
m B}_{\rm C}$  = ELECTRICIAN SHALL, VERIFY BREAKER WITH EQUIPMENT PRIOR TO PURCHASE & INSTALL C: ···· AFTER COMPLETION OF WORK, ELECTRICAN SHALL PROVIDE A TYPE WRITTEN PANEL DIRECTORY IN NEW PANEL.

VOLTAGE	PANEL	SIZE	MOU	NTING	AIC RATING		
208Y/120V 3-PH	600A MLO					PHASE "A" LOAD	366
200 1/ 120 V 3-111			SURFACE		22,000	PHASE "B" LOAD	366
NEMA RATING 1						PHASE "C" LOAD	366
DESCRIPTION	BREAKER SIZE	AMPS	PHASE	AMPS	BREAKER SIZE	DESCRIPTION	
GUESTROOM 200 PANEL	100-2	65	A	65	100-2	GUESTROOM 212 PANEL	
<b></b>	-	65	В	65	-	-	
GUESTROOM 201 PANEL	100-2	65	C	65	100-2	GUESTROOM 213 PANEL	
	-	65	А	65	-	-	
GUESTROOM 202 PANEL	100-2	65	В	65	100-2	GUESTROOM 214 PANEL	
_ 	-	65	С	65	-	-	
GUESTROOM 203 PANEL	100-2	65	A	65	100-2	GUESTROOM 215 PANEL	
	-	65	B	65	-	-	
GUESTROOM 204 PANEL	100-2	65	C	65	100-2	GUESTROOM 216 PANEL	
-	-	65	A	65	- 1	-	<del>and then</del>
CUESTROOM 205 PANEL	100-2	65	В	65	100-2	GUESTROOM 217 PANEL	002207220
-	-	65	C	65	-	-	Mariadada
GUESTROOM 206 PANEL	100-2	65 65	A	65 65	100-2	GUESTROOM 218 PANEL	<u>711111170)</u>
GUESTROOM 207 PANEL	100-2	65 65	B	65 65	100-2	- GUESTROOM 219 PANEL	<u>asanan</u>
GUESTROOM 207 PANEL	100-2	65	манд <b>у</b> ланта А	65	10072/////	GUEST ROOM 219 PANEL	317//5510
GUESTROOM 208 PANEL	100-2	65	B	65	100-2	GUESTROOM 220 PANEL	aaaa
-		65	C	65	-		<u>99766933</u>
GUESTROOM 209 PANEL	100-2	65	A	65	100-2	GUESTROOM 221 PANEL	
	-	65	B	65	-		
GUESTROOM 210 PANEL	100-2	65	c		100-2	SPARE	
	•	65	Α				
GUINTROOM 211 PANEL	100-2	65	В			OPEN	
·····	-		С			OPEN	
OPEN			A			OPEN	
OPEN			В			OPEN	
OPEN			С			OPEN	

 $|\mathbf{B}_i|$  = Electrician shall verify breaker with equipment prior to purchase & install.

 $|\mathbf{C}|_{\mathrm{C}}$  = AFTER COMPLETION OF WORK, ELECTRICAN SHALL PROVIDE A TYPE WRITTEN PANEL DIRECTORY IN NEW PANEL.

 $|{
m D}_{
m c}|_{
m c}$  = Guestroom electrical loads and distribution panel total load have been calculated per NBC article 220  $\cdots$ 

	DICT	DIDIT	TOND	ANDET	10201		
		KIDUT	'ION P.		-	· · · · · · · · · · · · · · · · · · ·	
VOLTAGE	PANEL	SIZE	MOU	NTING	AIC RATING		
208Y/120V 3-PH						PHASE "A" LOAD	426
	600A N	ALO	SURI	FACE	22,000	PHASE "B" LOAD	421.5
NEMA RATING 1				1		PHASE "C" LOAD	351
DESCRIPTION	BREAKER SIZE	AMPS	PHASE	AMPS	BREAKER SIZE	DESCRIPTION	
GUESTROOM 322 PANEL	100-2	65	A	65	100-2	GUESTROOM 334 PANEL	
- -	-	65	В	65	-	י היות היינה איני היינה	
GUESTROOM 323 PANEL	100-2	65	C	65	100-2	GUESTROOM 335 PANEL	
-	-	65	Λ	65	-	-	
GUESTROOM 324 PANEL	100-2	65	В	65	100-2	GUESTROOM 336 PANEL	
-	-	65	С	65	-	-	<i>0530103</i> 1180401
GUESTROOM 325 PANEL	100-2	65	A	65	100-2	GUESTROOM 337 PANEL	2977/0/12/22
-	- Nacional Sectors	65	B	65	- Transford States States and	- -	uudelaanimis
GUESTROOM 326 PANEL	100-2	65	C	65	100-2	GJESTROOM 338 PANEL	
-	-	65	A	65	-	-	
GUESTROOM 327 PANEL	100-2	65	В	65	100-2	GUESTROOM 339 PANEL	
-	-	65	C	65	-	-	977019-27762761010
GUESTROOM 328 PANEL	100-2	65 65	A B	65 65	100-2	GUESTROOM 340 PANEL	
GUESTROOM 329 PANEL	100-2	65	C B	65	100-2	GUESTROOM 341 PANEL	
COISTROOM 325 FRALE	10072	65	Λ Λ	65	1 10074	OUISTROOM SHITTING	ANDIGI \$20680.52
GUESTROOM 330 PANEL	100-2	65	B	75	100-2	PANEL 'P3.1'	
-	-	65	C	70.5	- -		eranninininini
GUESTROOM 331 PANEL	100-2	65	Ā		100-2	SPARE	
-		65	B		*		
GUESTROOM 332 PANEL	100-2	65	C			OPEN	
-	-	65	Α			OPEN	
GUESTROOM 333 PANEL	100-2	65	В			OPEN	
-	-	65	С			OPEN	
OPEN			A			OPEN	
OPEN			В			OPEN	
OPEN			е			OPEN	
NOTES: A: PANEL SHALL BE EQUAL TO SQUARE D "I-LINE" SER	UFS.						
B: ELECTRICIAN SHALL VERIFY BREAKER WITH EQUIP		O PURCHA:	E & INSTAL	L.			
C: AFI ER COMPLETION OF WORK, ELECTRICAN SHALL					'IN NEW PANE	J.,	
D: GRESTROOM ELECTRICAL LOADS AND DISTRIBUTIO							

	DIST	RIBUT	ION P.	ANEL	'P4A'		
VOLTAGE	PANEL	SIZE	MOU	NTING	AIC RATING		
208Y/120V 3-PH						PHASE "A" LOAD	366
2081/120 9 5-111	600A MLO		SURFACE		22,000	PHASE "B" LOAD	366
NEMA RATING 1						PHASE "C" LOAD	366
DESCRIPTION	BREAKER SIZE	AMPS	PHASE	AMPS	BREAKER SIZE	DESCRIPTION	
GUESTROOM 400 PANEL	100-2	65	A	65	100-2	GUESTROOM 412 PANEL	
-	-	65	В	65	-	-	
GUESTROOM 401 PANEL	100-2	65	С	65	100-2	GUESTROOM 413 PANEL	
- -	-	65	Λ	65	-	-	
GUESTROOM 402 PANEL	100-2	65	В	65	100-2	GJESTROOM 414 PANEL	
	-	65	С	65	-		
GUESTROOM 403 PANEL	100-2	65	A	65	100-2	GUESTROOM 415 PANEL	
•	-	65	B	65	-	-	
GUESTROOM 404 PANEL	100-2	65	C	65	100-2	GUESTROOM 416 PANEL	<u> Momente</u>
~	-	65	A	65	-	-	
GUESTROOM 405 PANEL	100-2	65	В	65	100-2	GUESTROOM 417 PANEL	1011111133
-	- 1910-1910-1910-1910-1910-1910-1910-191	65	C	65	-	- -	Cuillinne
GUESTROOM 406 PANEL	100-2	65	A	65	100-2	GUESTROOM 418 PANEL	1020(555560))
-	-	65	B	65	-		sosonni (
GUESTROOM 407 PANEL	100-2	65 65	C	65 65	100-2	GUESTROOM 419 PANEL	Staassaa
GUESTROOM 408 PANEL	100-2	65	AB	65	100-2	GUESTROOM 420 PANEL	
GOLDIROOMIHOAFANEL	100-2	65	C	65	10072	GOEST RCOM: 420 PAINEE	<i>1174(GE1444)</i>
GUESTROOM 409 PANEL	100-2	65	A	65	100-2	GUESTROOM 421 PANEL	39424844
COLUMNOOM FOR TAXALL		65	B	63	-	-	00050000
GUESTROOM 410 PANEL	100-2	65	C	05	100-2	SPARE	
**************************************		65	A		4 <u>.220.000000000000000000000000000000000</u>	944314M	<u>eestitellilli</u>
GUESTROOM 411 PANEL	100-2	65	B			OPEN	
			C	9/6/2007/2020///	//////////////////////////////////////	OPEN	<u></u>
OPEN			A			OPEN	
OPEN			B	***************		OPEN	
OPEN			c			OPEN	
OTES:         A:       PANEL SHALL BE EQUAL TO SQUARE D "HANE" SERI         B:       ELECTRICIAN SHALL VERIFY BREAKER WITH EQUIPH         C:       AFTER COMPLETION OF WORK, ELECTRICAN SHALL         D:       GRESTROOM ELECTRICAL LOADS AND DISTRIBUTION	MENT PRIOR I PROVIDE A TY	YPE WRITT	EN PANEL I	DIRECTORY			

	DIST	RIBUT	TION P	ANEL	'P2B'	
VOLTAGE	PANEL	SIZE	MOU	NTING	AIC RATING	[
208Y/120V 3-PH		1				PHASE"A" LOAD 4
	600A N	MLO	SURI	FACE	22,000	PHASE "B" LOAD 42
NEMA RATING 1						PHASE "C" LOAD 3
DFS CRIPTION	BREAKER SIZE	AMPS	PHASE	AMPS	BREAKER SIZE	DES CRIPTION
GUESTROOM 222 PANEL	100-2	65	A	65	100-2	GUESTROOM 234 PANEL
-	-	65	В	65	-	
GJESTROOM 223 PANEL	100-2	65	С	65	100-2	GUESTROOM 235 PANEL
-	-	65	Λ	65	-	-
GUESTROOM 224 PANEL	100-2	65	В	65	100-2	GUESTROOM 236 PANEL
	-	65	С	65	-	
GUESTROOM 225 PANEL	100-2	65	A	65	100-2	GUESTROOM 237 PANEL
	u.	65	В	65	-	
GUESTROOM 225 PANEL	100-2	65	С	65	100-2	GUESTROOM 238 PANEL
	-	65	Λ	65	-	
GUESTROOM 227 PANEL	100-2	65	В	65	100-2	GUESTROOM 239 PANEL
	-	65	С	65	-	
GUISTROOM 228 PANEL	100-2	65	A	65	100-2	GUESTROOM 240 PANEL
_	-	65	B	65	-	
GUESTROOM 229 PANEL	100-2	65	С	65	100-2	GUESTROOM 241 PANEL
-	-	65	Λ	65	-	-
GUTSTROOM 230 PANEL	100-2	65	В	75	100-2	PANEL/P2.1
	-	65	С	70.5	-	-
GUESTROOM 231 PANEL	100-2	65	A		100-2	SPARE
	-	65	В		-	-
GUESTROOM 232 PANEL	100-2	65	С			OPEN
-	-	65	Λ			OPEN
GUESTROOM 233 PANEL	100-2	65	В			OPEN
	-	65	С			OPEN
OPEN			A			OPEN
OPEN		<u>[</u> '	В			OPEN
OPEN			С			OPEN

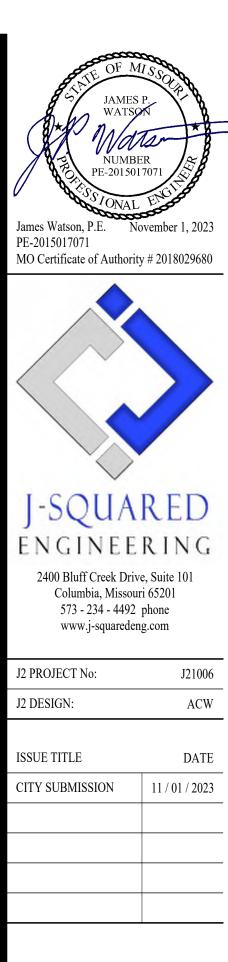
A: PANEL SHALL BE EQUAL TO SQUARE D "I-LINE" SERIES

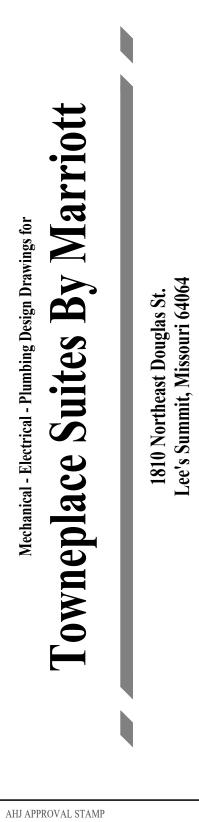
B: ELECTRICIAN SHALL VERIFY BREAKER WITH EQUIPMENT PRIOR TO PURCHASE & INSTALL.

C: AFTER COMPLETION OF WORK, ELECTRICAN SHALL PROVIDE A TYPE WRITTEN PANEL DIRECTORY IN NEW PANEL. D: GUESTROOM ELECTRICAL LOADS AND DISTRIBUTION PANEL TOTAL LOAD HAVE BEEN CALCULATED PER NEC ARTICLE 220

	DIST	RIBUT	TION P	ANEL	'P3A'	
VOLTAGE	PANEL	SIZE	MOU	NTENG	AIC RATING	
208Y/120V 3-PH						PHASE "A" LOAD 366
208 1: 120 V 5-F11	600A 1	MILO.	SURI	FACE	22.000	PHASE "B" LOAD 366
NEMA RATING 1						PHASE "C" LOAD 366
DES CRIPTION	BREAKER SIZE	AMPS	PHASE	AMPS	BREAKER SIZE	DESCRIPTION
GUESTROOM 300 PANEL	100-2	65	A	65	100-2	GUESTROOM 312 PANEL
-	-	65	В	65	-	-
GUESTROOM 301 PANEL	100-2	65	С	65	100-2	GUESTROOM 313 PANEL
-	-	65	A	65	-	-
GUESTROOM 303 PANEL	100-2	65	В	65	100-2	GUESTROOM 314 PANEL
-	-	65	С	65	-	-
GUESTROOM 303 PANEL	100-2	65	A	65	100-2	GUESTROOM 315 PANEL
	-	65	В	65	-	-
GUESTROOM 304 PANEL	100-2	65	C	65	100-2	GUESTROOM 316 PANEL
	-	65	Λ	65	-	u
GUESTROOM 305 PANEL	100-2	65	В	65	100-2	GUESTROOM 317 PANEL
• •	-	65	С	65	-	-
GUESTROOM 306 PANEL	100-2	65	A	65	100-2	GUESTROOM 318 PANEL
<b>م</b>	-	65	В	65	-	<b>-</b>
GUESTROOM 307 PANEL	100-2	65	c	65	100-2	GUESTROOM 319 PANEL
-	-	65	Λ	65	-	*
GJESTROOM 308 PANEL	100-2	65	В	65	100-2	GUESTROOM 320 PANEL
•	-	65	С	65	-	<b>u</b>
GUESTROOM 309 PANEL	100-2	65	A	65	100-2	GUESTROOM 321 PANEL
	-	65	В	65	-	-
GUESTROOM 310 PANEL	100-2	65	C		100-2	SPARE
-	-	65	A		-	-
GUESTROOM 311 PANEL	100-2	65	В			OPEN
-	-	No Kuristi Azarta	C		e skilosstatulistastaeselik	OPEN
OPEN			A			OPEN
OPEN			В			OPEN
OPEN			C			OPEN
NOTES:         A:       PANEL SHALL BE EQUAL TO SQUARE D "I-LINE" SE         B:       ELECTRICIAN SHALL VERIFY BREAKER WITH EQUIL         C:       AFTER COMPLETION OF WORK, ELECTRICAN SHALL	PMENT PRIOR				IN NEW PANE	1

AFTER COMPLETION OF WORK, ELECTRICAN SHALL PROVIDE A TYPE WRITTEN PANEL DIRECTORY IN NEW PANEL. D: GUESTROOM ELECTRICAL LOADS AND DISTRIBUTION PANEL TOTAL LOAD HAVE BEEN CALCULATED PER NEC ARTICLE 220





SHEET TITLE

ELECTRICAL SCHEDULES

SHEET NUMBER



	DIST	RIBUT	ION P	ANEL	'P4B'				PA	NEL 'I	P3.1' SO	CHEDU	ULE		
VOLTAGE	PANEI	L SIZE	MOU	NTING	AIC RATING			VOLTAGE	PANEI	L SIZE	MOU	NTING	AIC RATING	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
208 Y/ 120 V 3-PH						PHASE "A" LOAD 426		120°208V I-PH	1					PHASE"A" LOAD	75
2081/1201/05-PT	600A	MLO	SUR	FACE ····	22,000	PHASE "B" LOAD 427.5		12/2/8/1-11	100A	MLO	RECI	ESSED	10,000	PHASE "B" LOAD	70.5
NEMA RATING: 1						PHASE "C" LOAD 351									
DES CRIPTION	BREAKER SIZE	AMPS	PHASE	AMPS	BREAKER SIZE	DESCRIPTION	CIRCUIT NUMBER	DESCRIPTION	BREAKER SIZE	AMPS	PHASE	AMPS	BREAKER SIZE	DESCRIPTION	CIRCUIT NUMBER
GUESTROOM 422 PANEL	100+2	65	A	65	100-2	GUESTROOM 434 PANEL	1	CORRIDOR RECEPTS.	20-1	6	A	16	20-2	PTAC	2
-	-	65	В	65	-	-	.3	LINEN STORAGE RECEPTS.	20-1	4.5	В	16	-	-	4
GUESTROOM 423 PANEL	100-2	65	C	65	100-2	GUESTROOM 435 PANEL	5	STORAGE RECEPTS.	20-1	4.5	A	16	20-2	PTAC	6
-		65	Λ	65	-	-	7	CORRIDOR RECEPTS.	20-1	6	В	16	-	-	8
GUESTROOM 424 PANEL	100-2	65	В	65	100-2	GUESTROOM 436 PANEL	9	1.T. RECEPTS.	20-1	4,5	Α	14	25-2	LT, MINI-SPLIT (FCU-1 / HP-1)	10
-	-	65	с	65	-	-	13	I.T. RECEPTS.	20-1	3	В	14	-	-	12
GUESTROOM 425 PANEL	100-2	65	A	-65	100-2	OUESTROOM 437 PANEL	13	I.T. RECEPTS.	20-1	3	A			OPEN	14
•	-	65	В	65	-	م. 	15	SMOKE CURTAIN	20-1	3	B			OPEN	16
GUESTROOM 426 PANEL	100-2	65	C	65	100-2	GUESTROOM 438 PANEL	17 SMOKE CURTAIN			3	A			OPEN	18
-	-	65	Λ	65	-	-	19 LIGHTING		20-1	8	В			OPEN	20
GUESTROOM 427 PANEL	100-2	65	В	65	100-2	GUESTROOM 439 PANEL	21 LIGHTING		20-1	8	A			OPEN	22
-	-	65	С	65	-	-	23 SPARE		20-1		B			OPEN	24
GUESTROOM 428 PANEL	100-2	65	A	65	100-2	GUESTROOM 440 PANEL	25 SPARE		20-1		Α			OPEN	26
-	-	65	В	65	-	-	27	SPARE	20-1		В			OPEN	28
GUESTROOM 429 PANEL	100-2	65	С	65	100-2	GUESTROOM 441 PANEL	29	SPARE	20-1		A			OPEN	30
	-	65	Λ	65	-	ے 	NO TES:								
GUESTROOM 430 PANEL	100-2	65	В	75	100-2	PANEL P4.1'	А.	PANEL SHALL BE EQUAL TO SQUARE D MODEL "QO"	"						
	-	65	С	76.5	-	۳ ۲۰ ۲۰ ۲۰ ۲۰ ۲۰ ۲۰ ۲۰ ۲۰ ۲۰ ۲۰ ۲۰ ۲۰ ۲۰ ۲	B:	ELECTRICIAN SHALL VERIFY BREAKER WITH EQUIP	MENT PRIOR	TO PURCHA	SE & INSTAT	LT.			
GUESTROOM 431 PANEL	100-2	65	A		100-2	SPARE	C:	AFTER COMPLETION OF WORK, ELECTRICAN SHALL	. PROVIDE A T	YPE WRITT	EN PANEL	DIRECTORY	' IN NEW PANE	I	
•	-	65	В		-	•	1								
GUESTROOM 432 PANEL	100-2	65	C			OPEN									
-	-	65	А			OPEN			PA	NEL 'H	24.1' SO	CHEDI	JLE		
GUESTROOM 433 PANEL	100-2	65	В			OPEN		VOLTACE	PANEI	L SIZE	MOU	NTING	AIC RATING		
- 		65	С			OPEN		······						PHASE "A" LOAD	75
OPEN			A			OPEN	120/208V 1-PH		100A	MLO	RECH	SSED.	10,000	PHASE "B" LOAD	76,5
OPEN			В			OPEN							20,000		
OPEN NO TES:			C			OPEN	CIRCUIT NUMBER	DESCRIPTION	BREAKER SIZE	AMPS	PHASE	AMPS	BREAKER SIZE	DESCRIPTION	CIRCUIT NUMBER

A: PANEL SHALL BE EQUAL TO SQUARE D "J-LINE" SERIES

 $\mathbf{B}_{i}$  ELECTRICIAN SHALL WERIFY BREAKER WITH EQUIPMENT PRIOR TO PURCHASE & INSTALL.

 $\mathbf{C}_{\mathrm{c}}$  . The completion of work, electrican shall provide a type written panel directory in new panel  $^{\circ}$  D;  $^{\circ\circ\circ}$  guestroom electrical loads and distribution panel total load have been calculated per NeC article 220  $^{\circ\circ\circ}$ 

		PA	NEL 'P	2.1' SC	CHEDU	ULE		
	VOLTAGE	PANEL	SIZE	MOU	NTING	AIC RATING		
	120/208∨1-PH	100A N	100A MLO RECESSED 10,000				PHASE "A" LOAD PHASE "B" LOAD	75 70.5
CIRCUIF NUMBER	DESCRIPTION	BREAKER SIZE	AMPS	PHASE	AMPS	BREAKER SIZE	DESCRIPTION	CIRCUII NUMBER
1	CORRIDOR RECEPTS.	20-1	6	A	16	20-2	РТАС	2
3	LINEN STORAGE RECEPTS.	20-1	4.5	В	16	-	-	4
5	STORAGE RECEPTS.	20-1	4.5	A	16	20-2	PTAC	6
7	CORRIDOR RECEPTS.	20-1	6	В	16	-	-	8
9	IT. RECEPTS.	20-1	4.5	A	14	25-2	I.T. MINI-SPLIT (FCU-1 / HP-1)	10
11	I.T. RECEPTS.	20-1	3	В	14	-	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	12
13	I.T. RECEPTS	20-1	3	A			OPEN	14
15	SMOKE CURTAIN	20-1	3	В			OPEN	16
17	SMOKECURTAIN	20-1	3	A			OPEN	18
19	LIGHTING	20-1	8	В			OPEN	20
21	LIGHTING	20-1	8	A			OPEN	22
23	SPARE	20-1		В			OPEN	24
25	SPARE	20-1		A			OPEN	26
27	SPARE	20-1		В			OPEN	28
29	SPARE	20-1		A			OPEN	30
	PANEL SHALL BE EQUAL TO SQUARE D MODEL "QO" BLECTRICIAN SHALL VERIFY BREAKER WITH EQUIP		O PURCHA:	SE & INSTAI	.1			

		PA	NEL 'P	94.1' SC	CHEDI	ULE		
	VOLTAGE	PANEL	SIZE	MOU	NTING	AIC RATING		
	120/208V 1-PH	100A N	4LO	RECE	SSED.	10,000	PHASE "A" LOAD PHASE "B" LOAD	75 76.5
CIRCUIT NUMBER	DESCRIPTION	BREAKER SIZE	AMPS	PHASE	AMPS	BREAKER SIZE	DESCRIPTION	CIRCUIT NUMBER
1	CORRIDOR RECEPTS.	20-1	6	A	16	20-2	PTAC	2
3	LINEN STORAGE RECEPTS.	20-1	4.5	В	16	-	-	4
5	STORAGE RECEPTS.	20-1	4.5	Α	16	20-2	PTAC	6
7	CORRIDOR RECEPTS.	20-1	6	B	16	-	<del>.</del>	8
9	I.T. RECEPTS,	20-1	4.5	A	14	25-2	LT. MINI-SPLIT (FCU-1/HP-1)	10
11	LT. RECEPTS.	20-1	3	в	14	_	-	12
13	LT. RECEPTS	20-1	3	A			OPEN	14
15	SMOKE CURTAIN	20-1	3	В			OPEN	16
17	SMOKE CURTAIN	20-1	3	A			OPEN	18
19	LIGHTING	20-1	8	B			OPEN	20
21	LIGHTING	20-1	8	A			OPEN	22
23	ROOFTOP RECEPTS.	20-1	6	В			OPEN	24
25	SPARE	20-1		A			OPEN	26
27	SPARE.	20-1		В			OPEN	28
29	SPARE	20-1		A			OPEN	30
	PANEL SHALL BE EQUAL TO SQUARE D MODEL "QO"				_		· · · · · · · · · · · · · · · · · · ·	

 ${
m B}_{\rm C}$  = Electrician shall, verify breaker with equipment prior to purchase & install. C. ···· AFTER COMPLETION OF WORK, ELECTRICAN SHALL PROVIDE A TYPE WRITTEN PANEL DIRECTORY IN NEW PANEL. ·

	BRANC	
АМРАСІТУ	COPPER AWG SIZE	
20	12	
40.07	10	
30	10	Contraction of the
30	8	A STATISTICS AND A STATISTICS
25	8	ſ
35	6	ľ
40	8	A STATE OF A STATE OF A
40	6	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
	6	÷
45	4	ľ
	6	10000000
50	4	1000 C 1000 C
<i>(</i> 1)	6	ľ
60	4	
50	4	An OWNER.
70		1.1.1.1.1.1.1
80	-4	
80	3	ſ
20	3	1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.
90	2	A STATE OF A
NA)	3	ſ
100	2	ľ
OTES-		

NOTES: IN RACEWAY.

AMPACITY	# OF SETS	
30	1	
40	1	
45	1	
50	1	
60	1	
70	1	
80	1	
90	1	
100	1	
110	1	
125	1	
150	1	
175	1	
200	1	
225	1	
250		
300	1	
350	1	
400	1	onan
500	2	
600	2	
800	2	
1000	3	
1200	4	
1600	5	
2000	6	886
NOTES:	ES SHOWN ARE.	
	THE CREWNING A DEC.	1 A 5

	MAXIMUM DIS	STANCE (FEET)		3.613/TB 41 (3.4
1	Ø	3	Ø	MINIMUM CONDUIT SIZE
120V	277V	208V	480V	CO. ODI SHA
55'	130	115	260'	1/2"
90'	205'	180'	415	3/4"
60	135	120'	275'	3/4"
95'	220	190'	445'	1"
80	190'	165	380'	1"
130'	300′	260'	605'	]"
70	165	145	330'	1"
110'	260	225'	525'	1"
100'	235'	2001	470'	ŀ
160'	370'	325'	750'	1-1/4*
90'	210	180'	420'	1-1/4"
145'	335'	290'	675'	1-1/4"
75	175	150'	350'	I-1/4*
120'	280'	240'	560'	<b>l-1</b> /4"
105'	240	205	480'	1-1/4"
130'	300'	260'	605'	1-1/4"
55	210'	180'	420'	I-1/4"
90'	260	230'	530'	1-1/4*
100'	235	200'	470'	1-1/4"
125'	295	255	595'	1-1/4"
90	210	180'	420'	<b> -</b> ]/4"
115'	265'	230'	535'	1-1/4*

1. ALL BRANCH CIRCUIT CONDUCTORS SHALL BE COPPER. ALL WIRE SIZES SHOWN ARE BASED ON CONDUCTOR TEMPERATURE RATING OF 75°C & AMBIENT TEMPERATURE OF 30°C PER NEC.

2. DISTANCE SHOWN ABOVE IS LENGTH FROM OVERCURRENT PROTECTION TO DEVICE/EQUIPMENT. 3. REFER TO PLAN SHEETS FOR BRANCH CONDUCTOR SIZING LENGTHS GREATER THAN SHOWN ABOVE. 4. VOLTA GE DROP CALCULATIONS BASED ON 3% DROP, 80% CIRCUIT LOAD, THEN/THWN INSULATION, 100%

POWER FACTOR, BALANCED LOAD, NEGLIGIBLE REACTANCE, & SIX OR LESS CURRENT-CARRYING CONDUCTORS

FE	EDER CO	NDUCTOF	R SCHEDU	LE CARA		[.]
	CONDUCTORS			· · ·	T GROUND	MINIMUM
QUANTITY		AWG	SIZE	AWO	CONDUIT SIZE	
30'WYE	10 OR 30 🛦	COPPER	ALUMINUM	COPPER	ALUMINUM	(PER SET)
4	3	10	8	10	8	3/4"
4	3	8	8	8	8	1"
4	3	8	6	8	8	]"
4	3	8	6	10	8	1"
4	3	6	4	10	6	1"
4	3	4	2	8	6	1-1/4"
4	3	4	2	8	6	1-1/4*
4	3	3	2	8	6	1-1/4"
4	3	3	I	8	6	₹-]/4ª
4	3	2	1/O	6	4	1-1/4"
4	3	}	2/0	6	4	2"
4	3	1/0	3/0	6	4	2"
4	3	2/0	4/O	6	4	2"
4	3	3/0	250	6	4	2-1/2"
4	3	4/O	300	4	2	2-1/2"
4	3	250	350	4	2	3"
4	3	350	500	4	2	4"
4	3	400	600	3	1	<b>4</b> "
4	3	500	750	3	1	4"
4	3	250	350	2	1/O	4"
4	3	350	500	Ī	2/O	4"
4	3	500	750	1/O	3/0	4"
4	3	400	350	2/0	4/0	4"
4	3	350	500	3/0	250	<u>4"</u>
4	3	400	750	4/O	350	4*
4	3	400	750	250	400	4"

BASED ON CONDUCTOR TEMPERATURE RATING OF 75°C & AMBIENT TEMPERATURE RATING OF 30°C PER NEC. DUTA GE DROP FOR FEEDER CONDUCTORS SHALL BE 2%.

TO ADJUST CONDUCTOR SIZES FOR LONG CIRCUIT LENGTHS & AMBIENT TEMPERATURES HIGHER THAN 30°C.

JAMES WATSO NUMBE PE-201501	BR 7071
J-SQUA ENGINEE 2400 Bluff Creek Drive Columbia, Missour 573 - 234 - 4492 www.j-squareden	RING e, Suite 101 ri 65201 phone
J2 PROJECT No:	J21006
J2 DESIGN:	ACW
ISSUE TITLE CITY SUBMISSION	DATE 11 / 01 / 2023







Barbon		SPACE DETAILS			SENSOR						DIGITAL C	ONTROLS				А	NALOG WA	LL SWITCH	
Image: Probability of the structure st	NTROLS CIRCUIT TAG (SEE PLANS)	LOCATION/NAME				SENSOR TYPE	and the second	and constant and the second				OVERRIDE		DIMMING				SWITCH LOCATION	
Physical Probatic Physical P	Α	STAIRTOWER LIGHTING		Х	30	DUAL TECH	•						-	X	Х	-	-		DIM TO 50% AFTER 30 MINUTES WITHOUT OCCUPANCY DETECTION.
Image: bit is a stand st	В	MECHANICAL / ELECTRICAL ROOMS		-	-	-		-	-	-	-		-	-	-	Х	-	WITHIN ROOM	LOCAL ON/OFF SWITCHING
HUMI MORCAMIN         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I	С	FOOD PREP					•		÷	-			-	-	-	х	-	WITHIN ROOM	LOCAL ON/OFF SWITCHING
Image: http://image: http:	D	FLEX ROOM			-			Х	ON DURING OCC	CUPIED HOURS	-	х	Х	Х	Х	-	-	-	DIM TO 50% OUTSIDE OF OCCUPIED HOURS; WITH LOCAL OVERRIDE
···     ···     ···     ···     ···     ···     ···     ···     ···     ···     ···     ···     ···     ···     ···     ···     ···     ···     ···     ···     ···     ···     ···     ···     ···     ···     ···     ···     ···     ···     ···     ···     ···     ···     ···     ···     ···     ···     ···     ···     ···<     ···<     ···<     ···<     ···<     ···<     ···<     ···<     ···<     ···<     ···<     ···<     ···<     ···<     ···<     ···<     ···<     ···<     ···<     ···<     ···<     ···<     ···<     ···<     ···<     ···<     ···<     ···<     ···<     ···<     ···<     ···<     ···<     ···<     ···<     ···<     ···<     ···<     ···<     ···<     ···<     ···<     ···<     ···<     ···<     ···     ···     ···     ···     ···     ···     ···     ···     ···     ···     ···     ···     ···     ···     ···     ···     ···     ···     ···     ···     ···     ···     ···     ···     ···     ···     ···     ···     ···< <tbbd> <tbr></tbr></tbbd>	E	BUFFET UNDERCOUNTER	-			C + 2 + 2	•	х	ON DURING OCC	CUPIED HOURS		х	х	х	х				DIM TO 50% OUTSIDE OF OCCUPIED HOURS; WITH LOCAL OVERRIDE
Her     OMMONITY     OMMONITY<	F	BUFFET CEILING		-	-	-	-	Х	ON DURING OCC	CUPIED HOURS		х	х	х	х	-		-	DIM TO 50% OUTSIDE OF OCCUPIED HOURS; WITH LOCAL OVERRIDE
1     11NDS NURALGATING     ·     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N     N<	G	COMMUNITY		-				х	ALWA	YS ON	-	х	х	х	х				WITH LOCAL SCENCE SWITCH
小田     小田     Name     Name <t< td=""><td>Н</td><td>COMMUNITY DECORATIVE PENDANT</td><td></td><td>-</td><td></td><td>-</td><td></td><td>х</td><td>ALWA</td><td>YS ON</td><td></td><td>х</td><td>х</td><td>х</td><td>х</td><td></td><td></td><td>-</td><td>WITH LOCAL SCENCE SWITCH</td></t<>	Н	COMMUNITY DECORATIVE PENDANT		-		-		х	ALWA	YS ON		х	х	х	х			-	WITH LOCAL SCENCE SWITCH
h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h     h </td <td>I</td> <td></td> <td></td> <td>X</td> <td>30</td> <td>DUAL TECH</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>x</td> <td>X</td> <td></td> <td></td> <td></td> <td></td>	I			X	30	DUAL TECH								x	X				
Image: bit in the second s	J	FITNESS LIGHTING		x	30	DUAL TECH	KEYED	-	-	-				х	X				DIM TO 50% AFTER 30 MINUTES WITHOUT OCCUPANCY DETECTION.
MIND	K		-	-	-	-	-	х			-	Х	-	х	х	-	-		
NH     Handron Construction     i.e.     i.e. </td <td>L</td> <td></td> <td></td> <td>-</td> <td></td> <td>-</td> <td>-</td> <td>х</td> <td>ALWA</td> <td>YS ON</td> <td>-</td> <td>х</td> <td>-</td> <td>х</td> <td>х</td> <td>-</td> <td></td> <td></td> <td></td>	L			-		-	-	х	ALWA	YS ON	-	х	-	х	х	-			
O       NAMENIALITING       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·      <	М		-		-		-	Х				Х	-	Х	X		-	-	WITH LOCAL DIMMING SWITCH
P       LOBW RESSND LATING       (a)       (b)       (c)       (c) <td>N</td> <td>ELEVATOR LOBBY SCONCES</td> <td></td> <td>-</td> <td></td> <td></td> <td>-</td> <td>Х</td> <td>ALWA</td> <td>YS ON</td> <td></td> <td>Х</td> <td>-</td> <td>Х</td> <td>X</td> <td>-</td> <td>-</td> <td>•</td> <td></td>	N	ELEVATOR LOBBY SCONCES		-			-	Х	ALWA	YS ON		Х	-	Х	X	-	-	•	
q       CORBINITIES       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i      i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i <th< td=""><td>0</td><td></td><td>-</td><td>1.4.1.</td><td>-</td><td></td><td></td><td>Х</td><td></td><td></td><td>-</td><td>X</td><td>Х</td><td>X</td><td>X</td><td>-</td><td>-</td><td></td><td></td></th<>	0		-	1.4.1.	-			Х			-	X	Х	X	X	-	-		
Å       VNTBUELIGHTMON       (-)       (-)       (-)       (-)       (-)       (-)       (-)       (-)       (-)       (-)       (-)       (-)       (-)       (-)       (-)       (-)       (-)       (-)       (-)       (-)       (-)       (-)       (-)       (-)       (-)       (-)       (-)       (-)       (-)       (-)       (-)       (-)       (-)       (-)       (-)       (-)       (-)       (-)       (-)       (-)       (-)       (-)       (-)       (-)       (-)       (-)       (-)       (-)       (-)       (-)       (-)       (-)       (-)       (-)       (-)       (-)       (-)       (-)       (-)       (-)       (-)       (-)       (-)       (-)       (-)       (-)       (-)       (-)       (-)       (-)       (-)       (-)       (-)       (-)       (-)       (-)       (-)       (-)       (-)       (-)       (-)       (-)       (-)       (-)       (-)       (-)       (-)       (-)       (-)       (-)       (-)       (-)       (-)       (-)       (-)       (-)       (-)       (-)       (-)       (-)       (-)       (-)      (-)       (-)	Р	LOBBY RECESSED LIGHTING		-	-	-	-	-	ON DURING OCC	CUPIED HOURS	-	-	-	Х	X	-	-		WITH DIMMING CONTROLS AT WELCOME DESK
S 1080 DECORTIVE FENDATS       G 2       G 2       G 2       G 2       G 2       G 2       G 2       G 2       G 2       G 2       G 2       G 2       G 2       G 2       G 2       G 2       G 2       G 2       G 2       G 2       G 2       G 2       G 2       G 2       G 2       G 2       G 2       G 2       G 2       G 2       G 2       G 2       G 2       G 2       G 2       G 2       G 2       G 2       G 2       G 2       G 2       G 2       G 2       G 2       G 2       G 2       G 2       G 2       G 2       G 2 <thg 2<="" th="">       G 2       G 2       G 2       G 2       G 2       G 2       G 2       G 2       G 2       G 2       G 2       G 2       G 2       G 2       G 2       G 2       G 2       G 2       G 2       G 2       G 2       G 2       G 2       G 2       G 2       G 2       <thg 2<="" th="">       G 2       G 2       G 2       G 2       G 2       G 2       G 2       G 2       G 2       G 2       G 2       G 2       G 2       G 2       G 2       G 2       G 2       G 2       G 2       G 2       G 2       G 2       G 2       G 2       G 2       <thg 2<="" th=""> <thg< td=""><td>Q</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>ON DURING OCC</td><td>CUPIED HOURS</td><td></td><td></td><td></td><td>X</td><td>X</td><td></td><td></td><td></td><td></td></thg<></thg></thg></thg>	Q								ON DURING OCC	CUPIED HOURS				X	X				
T       WELCOMEDESK PNDAPT       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i       i	R	VESTIBULE LIGHTING	-	-	-	-	-	-	-	-	-	-	-	X	X	-	-	-	UNSWITCHED, ALWAYS ON
Image: Normal Matrix     Image: Normal Matrix     Image: Normal Matrix     Normal Ma	S			-		-								X					
V       MEEING       ·       X       9.0       0.4.1 ER       X       0.4.1 ER       X       0.4.1 ER       X       0.4.1 ER       X       0.4.1 ER       0.4.1 ER <t< td=""><td>Т</td><td></td><td></td><td></td><td></td><td>-</td><td></td><td></td><td>ON DURING OCC</td><td>CUPIED HOURS</td><td>-</td><td></td><td></td><td>X</td><td>Х</td><td></td><td></td><td></td><td></td></t<>	Т					-			ON DURING OCC	CUPIED HOURS	-			X	Х				
WIMPOYEE REAR ROOM········································································································································································································ </td <td>U</td> <td></td> <td>•</td> <td>X</td> <td>30</td> <td></td> <td>x</td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td>	U		•	X	30		x			-				X	X				
X       RESTROMS       ·       X       30       DUALTER       KEYD       ·       ·       ·       ·       ·       X       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·	V			X	30		X		1				х	X	X			-	WITH LOCAL SCENCE SWITCH
Y       Staff LAUNDRY       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·       ·      <	W		•	X	30		x	-		-	-			x	x			•	WITH LOCAL OVERRIDE/DIMMER SWITCHES
ZGUEST LAUNRY.XMMDUALTER </td <td>X</td> <td></td> <td></td> <td>X</td> <td>30</td> <td>DUAL TECH</td> <td>KEYED</td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td>X</td> <td>-</td> <td></td> <td>-</td> <td></td>	X			X	30	DUAL TECH	KEYED	-						-	X	-		-	
AAPOELIGHTS (EXTERIOR)ADUSKDUSKDUSKDAWNXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX <td>Y</td> <td></td> <td>•</td> <td></td> <td></td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td></td> <td>X</td> <td></td> <td></td> <td></td>	Y		•			-	-	-	-	-	-	-	-	-		X			
BB       MONUMENT SIGN (STERIOR)       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I<	Z			X	30	DUAL TECH		-			-			X	X	-	-		
CCILLUMNATEDBULARDS(ETRIOR)·················································································································································································································································································································································································································································································································· </td <td></td> <td></td> <td></td> <td>-</td> <td>-</td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> <td>-</td> <td>x</td> <td>X</td> <td></td> <td>-</td> <td></td> <td>WITH MOTION SENSING DIMMING</td>				-	-	-					X	X	-	x	X		-		WITH MOTION SENSING DIMMING
DDBUILING PERMETERIARITY11111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111<11111111111111111111111<			•	-	-	-					X	X	-	X	X	-	-	-	
EffCANOPLIGHTINGENT $\cdot$				-	-						X	X	-	X	X		-	•	
FFI.T.CLOST LIGHTINGN-NNN-N-N-NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN			-	-	-	-					X	X	-	X	X	-	-	-	
GGUPPER LEVEL GUEST CORRIDORS-X30DUAL TECHXALXX<			•	-	-	-		X	DUSK	DAWN	X	X	-	X	X	-			
HI       GARAGE LIGHTING       -       -       X       -       X       -       DIM TO 50% AFTER 30 MINUTES WITHOUT OCCUPANCY DETECTION.         JJ       PATIO STRING LIGHTING       -       -       X       -       X       -       IM TO 50% AFTER 30 MINUTES WITHOUT OCCUPANCY DETECTION.			-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	WITHIN ROOM	
JJ PATIO STRING LIGHTING X DUSK DAWN X WITH LOCAL DIMMER/OVERRIDE SWITCH				X	30	DUAL TECH	-	X				-	-	-		-	-		
	HH		-	-	-	-		X			-	-	-	-	X	-	-	-	
KK WELCOME DESK COVE LIGHTING ON DURING OCCUPIED HOURS WITH DIMMING CONTROLS AT WELCOME DESK	11			-	-	-	-	X			X	X	-	X	X	-	-		
	KK	WELCOME DESK COVE LIGHTING	•					-	ON DURING OCC	CUPIED HOURS	-			X	X	-	-		WITH DIMMING CONTROLS AT WELCOME DESK

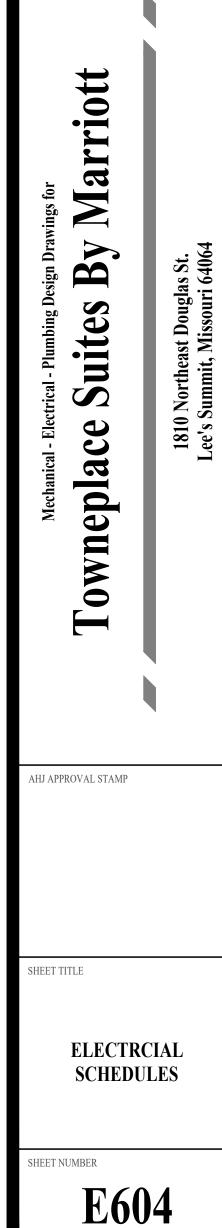
2. REFER TO BRAND STANDARDS/GUIDELINES FOR ADDITIONAL CONTROLS INFORMATION AND REQUIREMENTS.

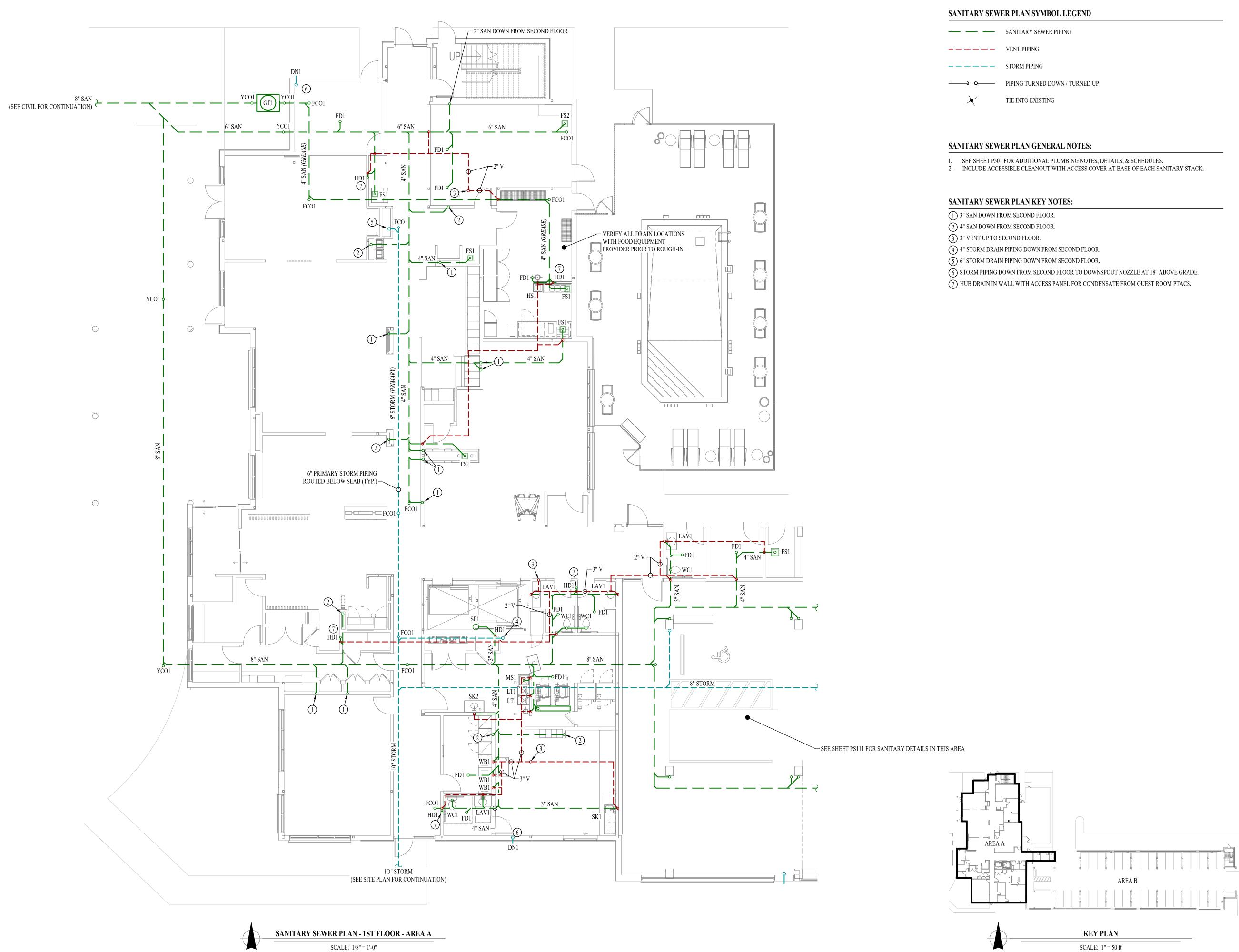
3. 'LOCAL' SWITCH LOCATION REFERS TO SWITCH LOCATED WITHIN AREA TO BE CONTROLLED.

			LIGI	IT FIXTURE SO	CHEDUI	JE				
TAG	MANUFACTURER (OR EQUAL)	MODEL NUMBER (OR EQUAL)	DESCRIPTION	MOUNTING	LUMEN OUTPUT	сст (°к)	CRI	VOLTS	WATTS	NOTES
C1	HALO	HC620D010-HM60525930-61MDH	6" RECESSED DOW NLIGHT	CEILING/RECESSED	2000	3000	90	120	20	
C2	HALO	H550ICA T/ML5609930/59211	5" RECESSED DOWNLIGHT	CEILING / RECESSED	842	3000	90	120	13	
C3	HALO	HC615D010-HM612930-61MDH	6" RESCSEED DONWLIGHT	CEILING/RECESSED	1235	3000	90	120	14	
C4	HALO	H550ICA T/ML5609930/595W W	5" RECESSED DOWNLIGHT	CEILING/ RECESSED	842	3000	90	120	13	WALLWASH
C5	HALO	E55ICA T-ML5609930-592W	5" RECESSED DOWNLIGHT	CEILING/RECESSED	832	3000	90	120	9	
DI	-	-	DECORATIVE PENDANT	CEILING/ SUSPENDED	-	-	-	120	20 MAX	SEE INTERIOR DESIGNER PLANS (WELCOME DESK)
D2	-	•	DECORA TIVE LINEAR STRIP	CEILING/RECESSED	•		+	•	50 MAX	SEE INTERIOR DESIGNER PLANS (WELCOME DESK)
D3	-	-	DECORA TIVE PENDANT	CEILING/ SUSPENDED	-	-	-	-	50 MAX	SEE INTERIOR DESIGNER PLANS (HUB)
D4	•		DECORATIVE PENDANT	CEILING/SUSPENDED	-	- -	•		50 MAX	SEE INTERIOR DESIGNER PLANS (COMMUNITY)
1D5	*		DECORATIVE SCONCE	WALL/SURFACE	-	-	-	-	20 MAX	SEE INTERIOR DESIGNER PLANS (ELEVATOR LOBBY)
D6	-	-	DECORATIVE FLUSH MOUNT	CEILING/SURFACE	-	-	-	-	20 MAX	SEE INTERIOR DESIGNER PLANS (CORRIDORS)
D7		-	DECORATIVE FLUSH MOUNT	CEILING/ SURFACE	-	-	-	-	20 MAX	SEE INTERIOR DESIGNER PLANS (GUESTROOM)
D8	-	-	DECORATIVE TRACK LIGHTING SYSTEM	CEILING/ SURFACE	-	<b>.</b>	-	-	30 MAX	SEE INTERIOR DESIGN PLANS (GUESTROOM)
1)9	-	-	DECORATIVE WALL SCONCE	WALL/SURFACE	-	-	-	-	10 MAX	SEE INTERIOR DESIGNER PLANS (GUESTROOM)
D10	•	•	DECORATIVE WALL SCONCE	WALL / SURFACE	-	-	-		20 MAX	SEE INTERIOR DESIGN PLANS (GUESTROOM)
El	SURFLITES	APX7R	INTERIOR EXIT LIGHT WITH HEADS	WALL/CEILING	-	-	-	120		
E2	SURELITES	APCH7R WITH APWR2	INTERIOR EXIT LIGHT WITH EXTERIOR REMOTE HEAD	WALL/CEILING	<u> </u>	-	-	120	-	
E3	SURFLITES	S13.60	EMERGENCY EGRESS LIGHT	WALL	-	-	-	120	1	
Gl	MCCRAW-EDISON	TT-D4-740-U-MQ	LED PARKING GARAGE 11GH1	SURFACE/CEILING	8002	4000	70	120	58	
Ll	NEO-RAY	S123DS-8C340D830JB-8FO/8-U-DD-F-W	8' LINEAR STRIP	CEILING/SURFACE	2720	3000	80	120	24	
L2	HALO	HU1124D9SMB	24" UNDERCABINET	SURFACE	660	3000	90	120	8	
1.3	IIALO	HU1148D9SMB	48" UNDERCA BINET	SURFACE	1320	30(X)	90	120	16	
1.4	COOPER	LM-05L-940-120-ODD-UNV-SSM-ST-D-2F	2" LINEAR STRIP	SURFACE	1254	4000	90	120	10	
1.5	COOPER	LM-10L-940-120-OD-UNV-SSM-ST-D-2F	2" LINEAR STRIP	SURFACE	1180	4000	90	120	10	
L6	A CCLAIM LIGHTING	DCD.142.DABE/DCD.142.AABE	COVELIGHTING	SURFACE	575/FT	3000	85	120	12/FT	WITH START & LINK CABLES
S1	METALUX	4WNLED-LD4-40SL-FUNV-L835-CD1-U	4' SURFACE WRAP						<u></u>	
S2	METALUX	4VI-LD5-6-DR-UNV-L840-UNV	4' VAPORTITE LED	ELEVATOR PIT	6000	4000	80	120	51	WITH 'ELIOW' BATTERY PACK WHERE INDICATED
<b>S</b> 3	HAFFLE	833 SERIES	45"L x 1" LED STRIP	CEILING/ SURFACE	891	3000	90	120	11	W1TH 833.73547 / 833.74.960 / 833.89.003 / 833.89.128 / 833.89.092 / 833.89.142 ACCESSORIES
Tl	METALUX	24GR-LD5-48-F1-UNV-L835-CD1-U	2x4 LED FLAT PANEL	CEILING/A.C.T.						WITH 'EL14W' BATTERY PACK WHERE INDICATED
12	METALUX	22GR-LD5-43-F1-UNV-L835-CD1-U	2x2 LED TROFFER							
T3	METALUX	22GR-LD5-43-F1-UNV-L835-CD1-U	2x2 LED TROFFER							
T4	METALUX	22CZ2039-UNV-L835-CD1-U	2№ LED TROFFER						32	
T5	METALUX	24SR-LD2-39-C-UNV-L835-CD1-U	2x+1ED TROFFER							
W1	LUMARK	XTOR2B-W	LEDWALLPACK	EXTERIOR WALL	1523	3500	70	120	18	
W2	SHAPER	673-16WP-L3-830-BM-UNV-2VTB-PC-BC	LED WALL SCONCE	EXTERIOR WALL	2000	3000	80	120	19	
							a	//////////////////////////////////////		
NOTES:			<u>}</u>	L	1	1	ŀ	I		1

1. VERIFY LIGHT FIXTURE FINISHES WITH OWNER / A RELIFTECT PRIOR TO INSTALLATION

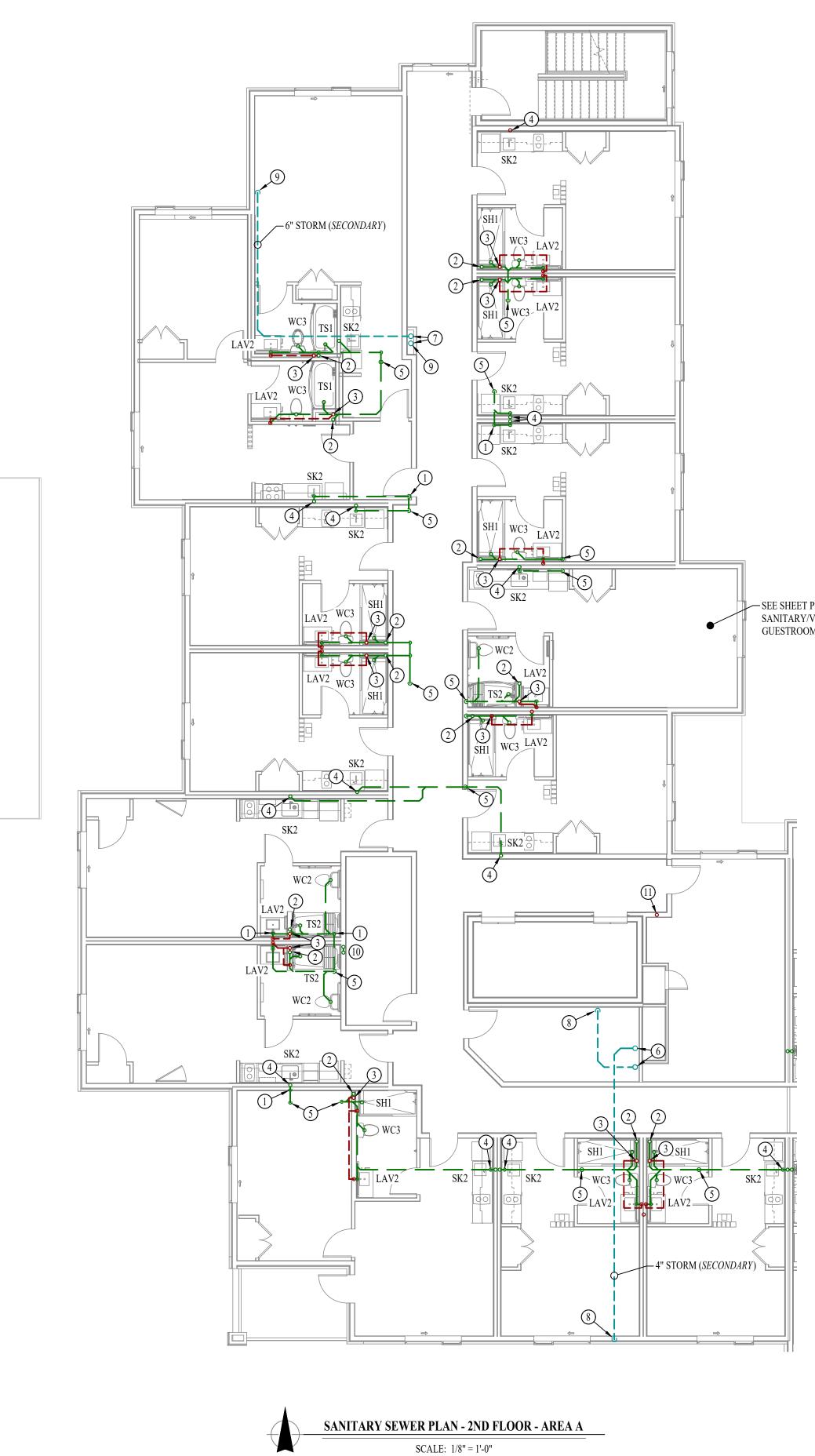




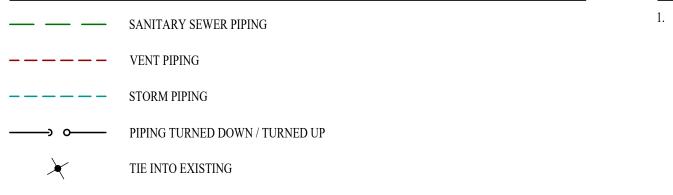




Mechanical - Electrical - Plumbing Design Drawings for Towneplace Suites By Marriott	1810 Northeast Douglas St. Lee's Summit, Missouri 64064
AHJ APPROVAL STAMP	
SHEET TITLE	
SANITA SEWER P 1ST FLO AREA	LAN - OR -
SHEET NUMBER	0.4
PS1	<b>U1</b>



## SANITARY SEWER PLAN SYMBOL LEGEND



 $\begin{array}{c} (1) \ PL \\ (2) \ 3'' \\ SA \\ (3) \ 3'' \\ PL \\ (4) \ 2'' \\ (5) \ 4'' \\ (5) \ 4'' \\ (6) \ 4'' \\ (7) \ 6'' \\ (8) \ 4'' \\ (9) \ 6'' \\ (10) \ 1'' \end{array}$ 

SEE SHEET PS401 FOR SANITARY/VENT DETAILS FOR GUESTROOMS ON FLOORS 3 & 4

### SANITARY SEWER PLAN GENERAL NOTES:

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

## SANITARY SEWER PLAN KEY NOTES:

1 PLUMBING DROP TO OFFSET AROUND STRUCTURAL TEE.

3" SANITARY STACK DOWN FROM THIRD FLOOR; SEE SHEET PS401 FOR THIRD AND FOURTH FLOOR SANITARY PLANS.

(3) 3" VENT STACK UP TO THIRD FLOOR; SEE SHEET PS401 FOR THIRD AND FOURTH FLOOR VENT PIPING PLANS.

(4) 2" COMBINATION DRAIN / VENT STACK DOWN FROM THIRD FLOOR.

(5) 4" SANITARY DOWN TO FIRST FLOOR; SEE SHEET PS102 FOR CONTINUATION.

6 4" STORM DRAIN PIPING DOWN FROM ROOF.

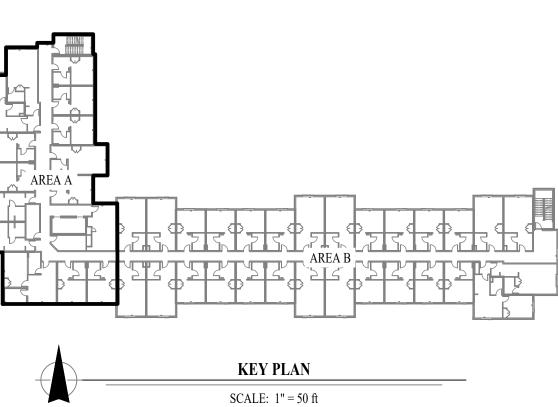
 $\bigcirc$  6" STORM DRAIN PIPING DOWN FROM ROOF.

8 4" STORM DRAIN PIPING DOWN TO FIRST FLOOR.

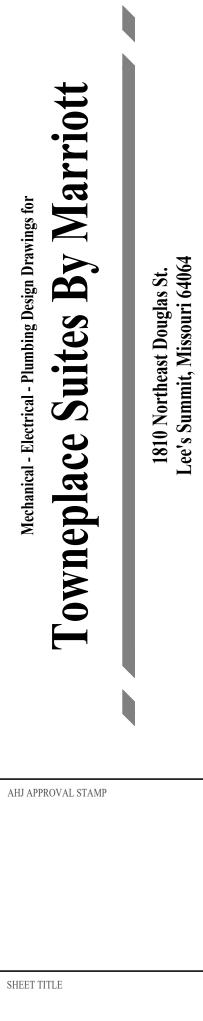
(9) 6" STORM DRAIN PIPING DOWN TO FIRST FLOOR.

(1) 1" SANITARY STACK UP IN I.T. CLOSET WALL TO HUB DRAINS (WITH ACCESS PANELS) ON FLOORS 2,3,&4 FOR I.T. MINI SPLIT.

(1) 3" VENT UP FROM BELOW; CONTINUES UP TO 3" VTR.







SANITARY SEWER PLAN - 2ND FLOOR -AREA A

**PS102** 

SHEET NUMBER

## SANITARY SEWER PLAN SYMBOL LEGEND

	SANITARY SEWER PIPING
	VENT PIPING
	STORM PIPING
o	PIPING TURNED DOWN / TURNED UP
,	

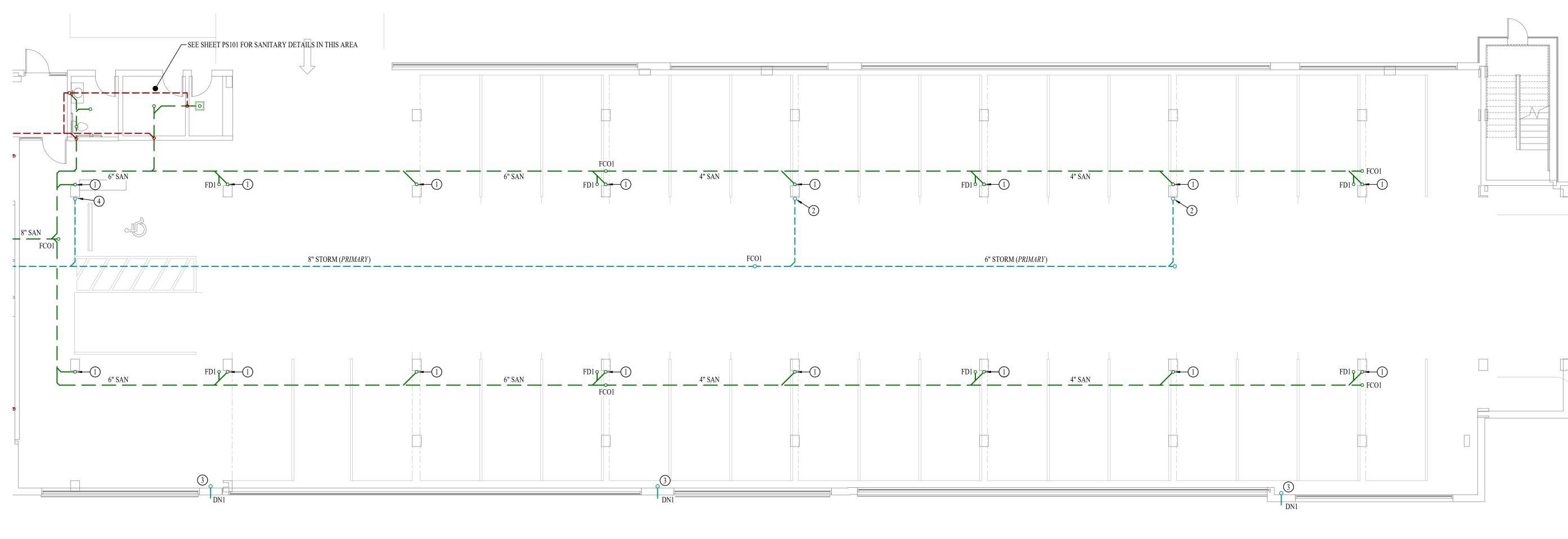
TIE INTO EXISTING

# SANITARY SEWER PLAN GENERAL NOTES:

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

# SANITARY SEWER PLAN KEY NOTES:

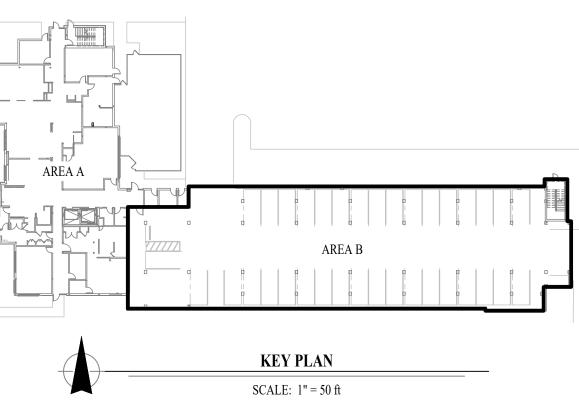
(1) 4" SANITARY DOWN FROM SECOND FLOOR NEXT TO COLUMN. (2) 6" STORM DRAIN PIPING DOWN FROM ABOVE. (3) STORM DRAIN PIPING DOWN TO DOWNSPOUT NOZZLE AT 18" ABOVE GRADE. (4) 4" STORM DRAIN PIPING DOWN FROM ABOVE.

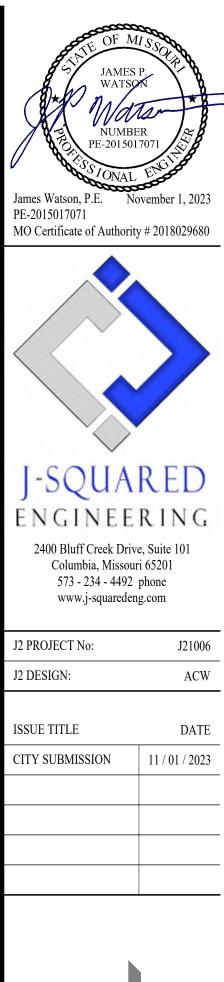


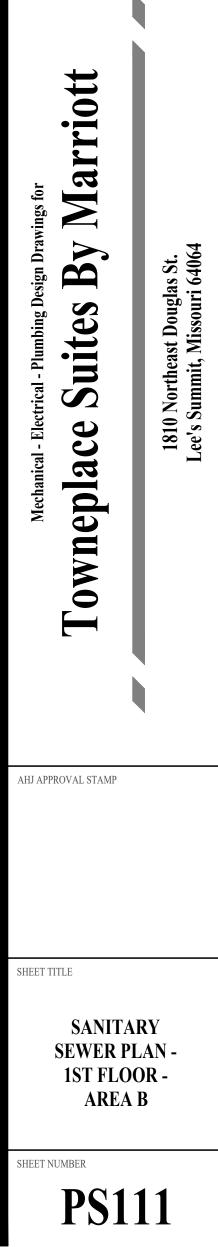




SANITARY SEWER PLAN - 1ST FLOOR - AREA B SCALE: 1/8" = 1'-0"







## SANITARY SEWER PLAN GENERAL NOTES:

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

## SANITARY SEWER PLAN SYMBOL LEGEND

 SANITARY SEWER PIPING

**———** VENT PIPING

**———** STORM PIPING

- PIPING TURNED DOWN / TURNED UP
  - TIE INTO EXISTING

## SANITARY SEWER PLAN KEY NOTES:

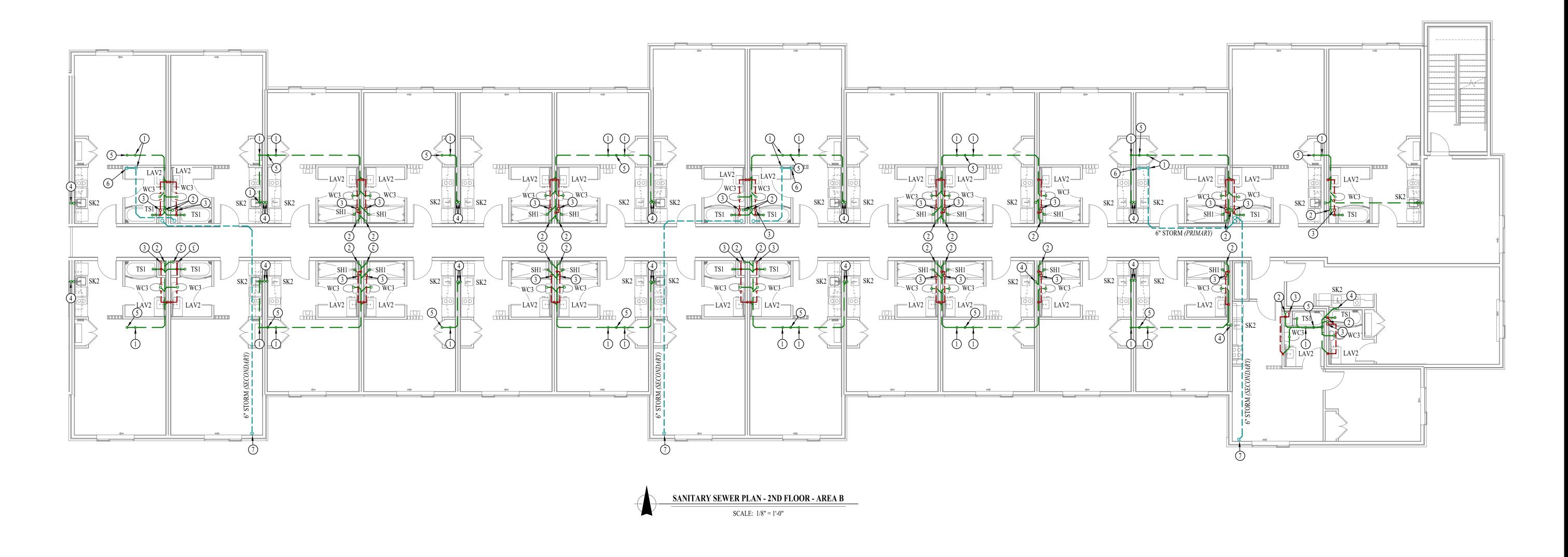
1 PLUMBING DROP TO OFFSET AROUND STRUCTURAL TEE.

- SANITARY PLANS.

(4) 2" COMBINATION DRAIN / VENT STACK DOWN FROM THIRD FLOOR.

5) 4" SANITARY DOWN TO FIRST FLOOR; SEE SHEET PS102 FOR CONTINUATION.

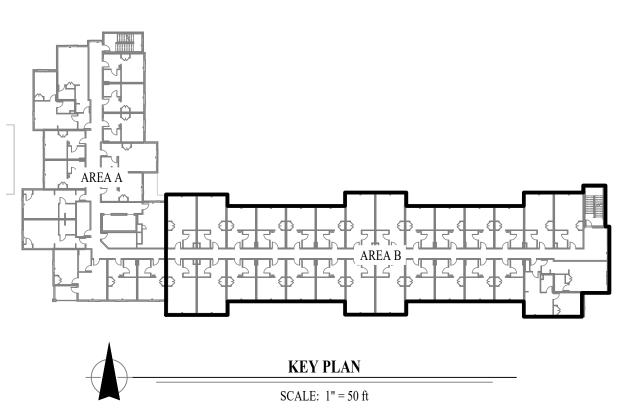
6 6" PRIMARY STORM DRAIN ROUTED DOWN NEXT TO COLUMN ON 1ST FLOOR.

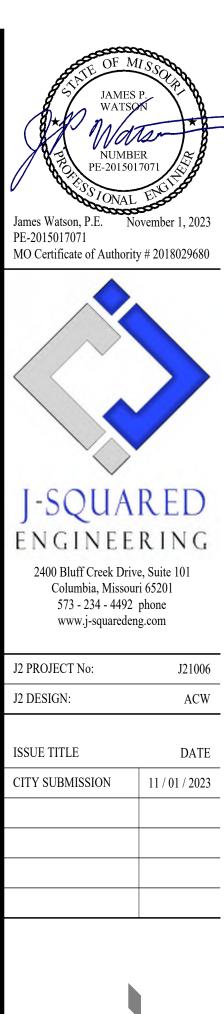


(2) 3" SANITARY STACK DOWN FROM THIRD FLOOR; SEE SHEET PS401 FOR THIRD AND FOURTH FLOOR

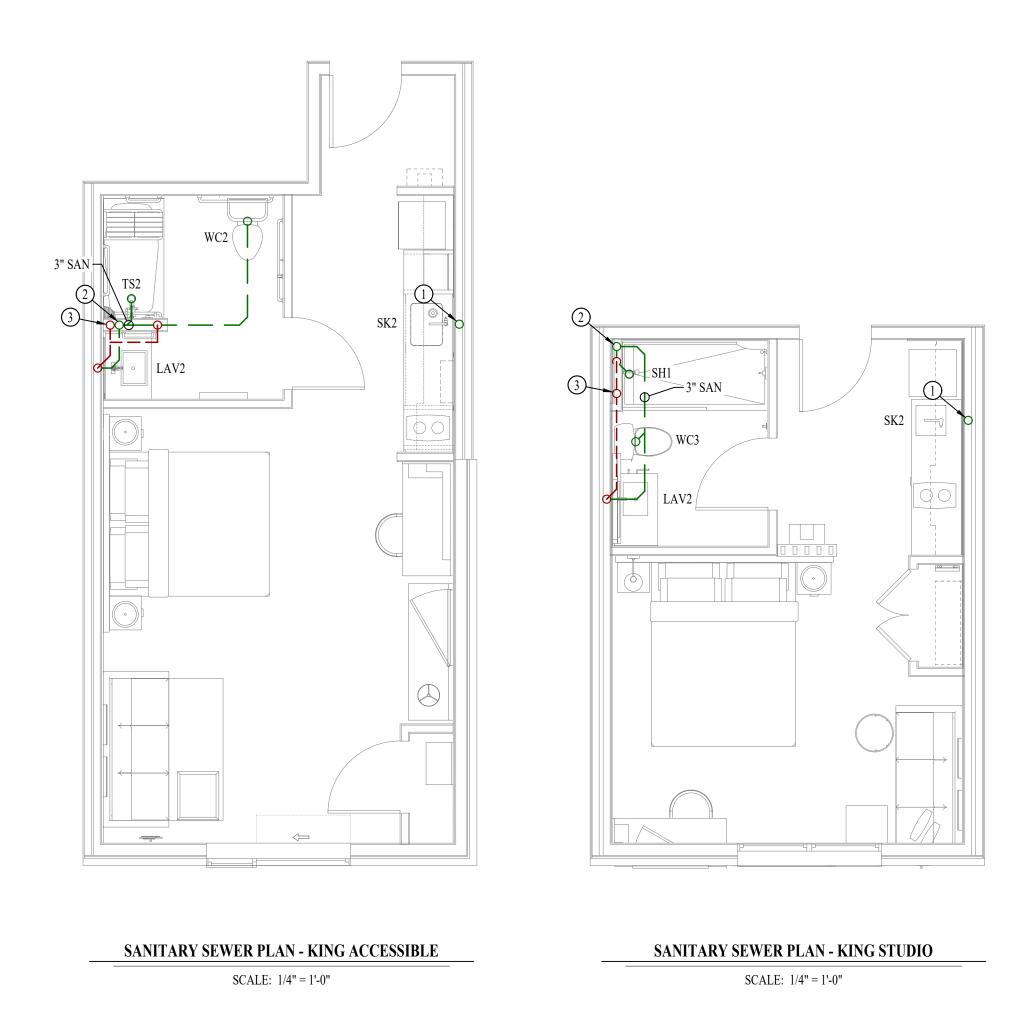
(3) 3" VENT STACK UP TO THIRD FLOOR; SEE SHEET PS401 FOR THIRD AND FOURTH FLOOR VENT PIPING PLANS.

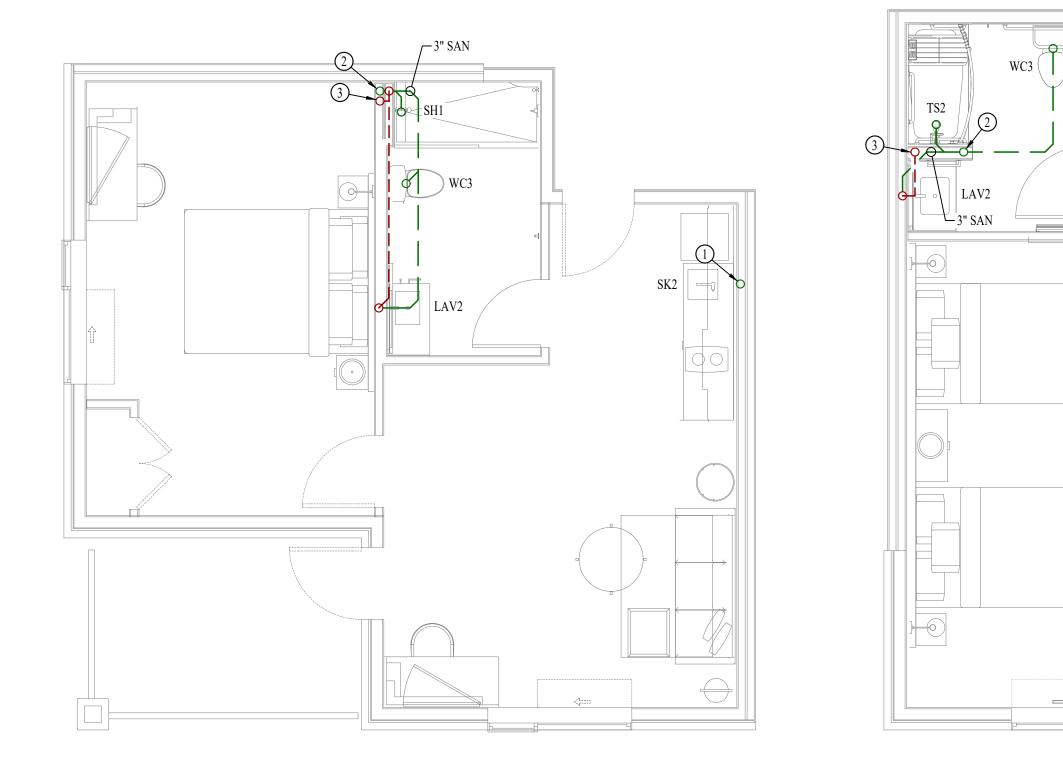
(7) 6" SECONDARY STORM DRAIN DOWN TO DOWNSPOUT NOZZLE 'DN1' ON 1ST FLOOR.





arriott N By Suites N St 1810 Nor Lee's Sumi Towneplace nical - Ele Mech AHJ APPROVAL STAMP SHEET TITLE SANITARY SEWER PLAN - 2ND FLOOR -AREA B SHEET NUMBER **PS112** 





## SANITARY SEWER PLAN - ONE BED KING W/ BALCONY

SCALE: 1/4" = 1'-0"

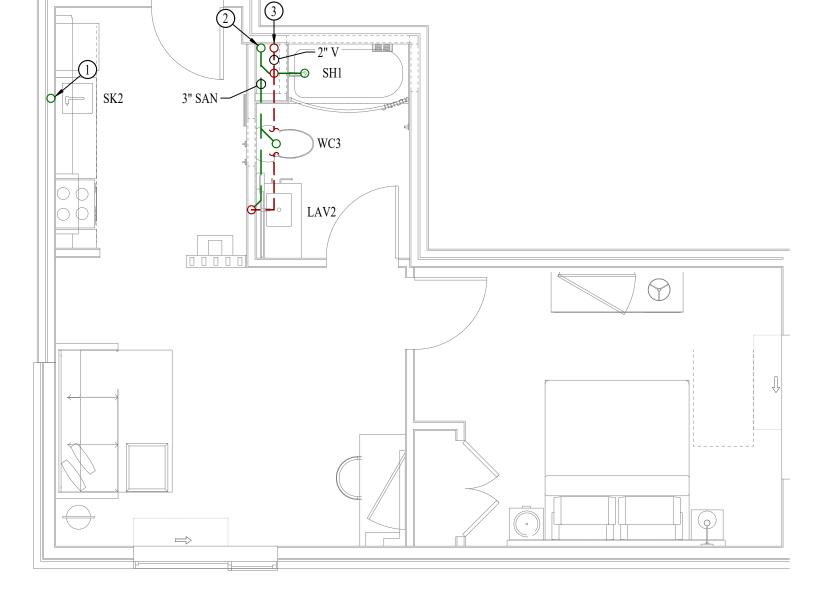
# SANITARY SEWER PLAN SYMBOL LEGEND

	SANITARY SEWER PI
	VENT PIPING
	STORM PIPING
o	PIPING TURNED DOW
$\succ$	TIE INTO EXISTING

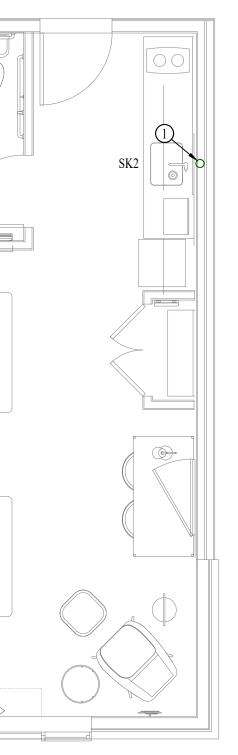


FOR FLOORS 1 & 2.

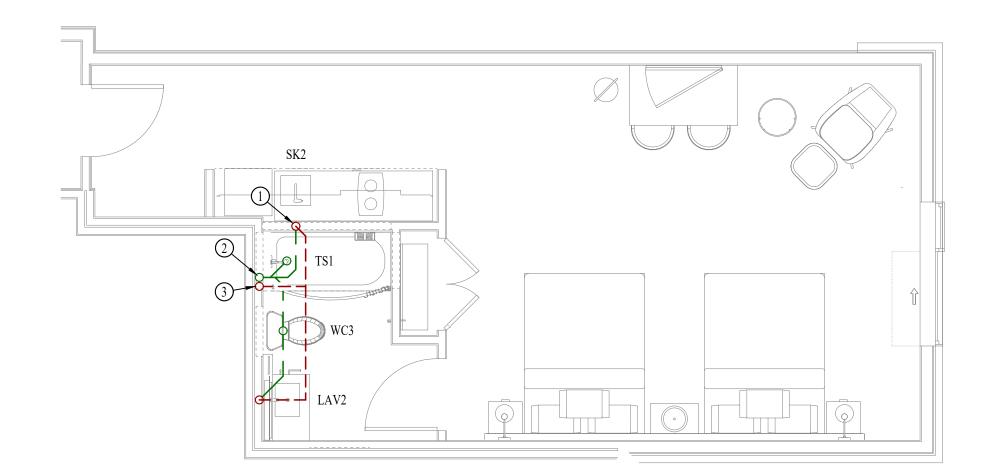
## SANITARY SEWER PLAN KEY NOTES:



SANITARY SEWER PLAN - ONE BED KING SCALE: 1/4" = 1'-0"



3" SAN -SK2 LAV2 



SANITARY SEWER PLAN - STUDIO DOUBLE QUEEN ACCESSIBLE

SANITARY SEWER PLAN - STUDIO DOUBLE QUEEN CENTER

SCALE: 1/4" = 1'-0"

PIPING

OWN / TURNED UP

SEE SHEET P501 FOR ADDITIONAL PLUMBING NOTES, DETAILS, & SCHEDULES.
 SANITARY PLANS SHOWN APPLY TO FLOORS 3 & 4. SEE PS100 SERIES SHEETS FOR SANITARY PLANS

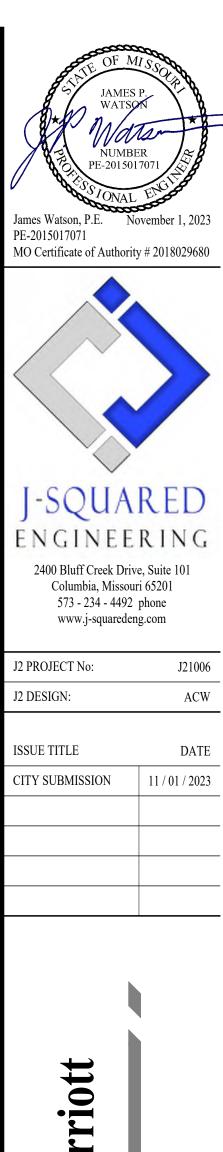
(1) 2" COMBINATION DRAIN/VENT STACK DOWN FROM FOURTH FLOOR ROOM TO THIRD FLOOR ROOM; VENT STACK TO COMBINE ABOVE FOURTH FLOOR FINISHED CEILING TO A 2" VENT THRU ROOF (VTR). SEE PS100 SERIES SHEETS FOR FIRST AND SECOND FLOOR SANITARY PLANS.

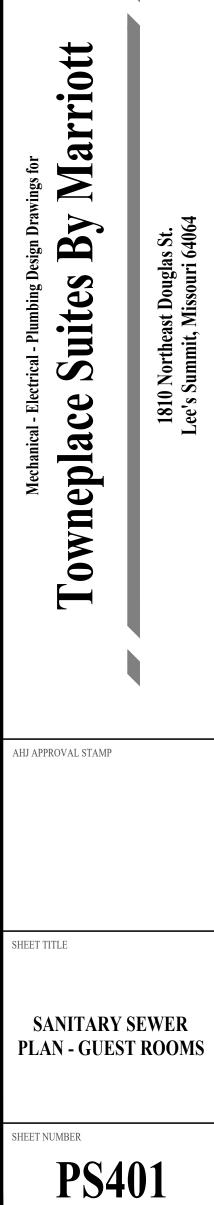
(2) 3" SANITARY STACK DOWN FROM FOURTH FLOOR TO COLLECT THIRD FLOOR; SEE PS100 SERIES SHEETS FOR FIRST AND SECOND FLOOR SANITARY PLANS.

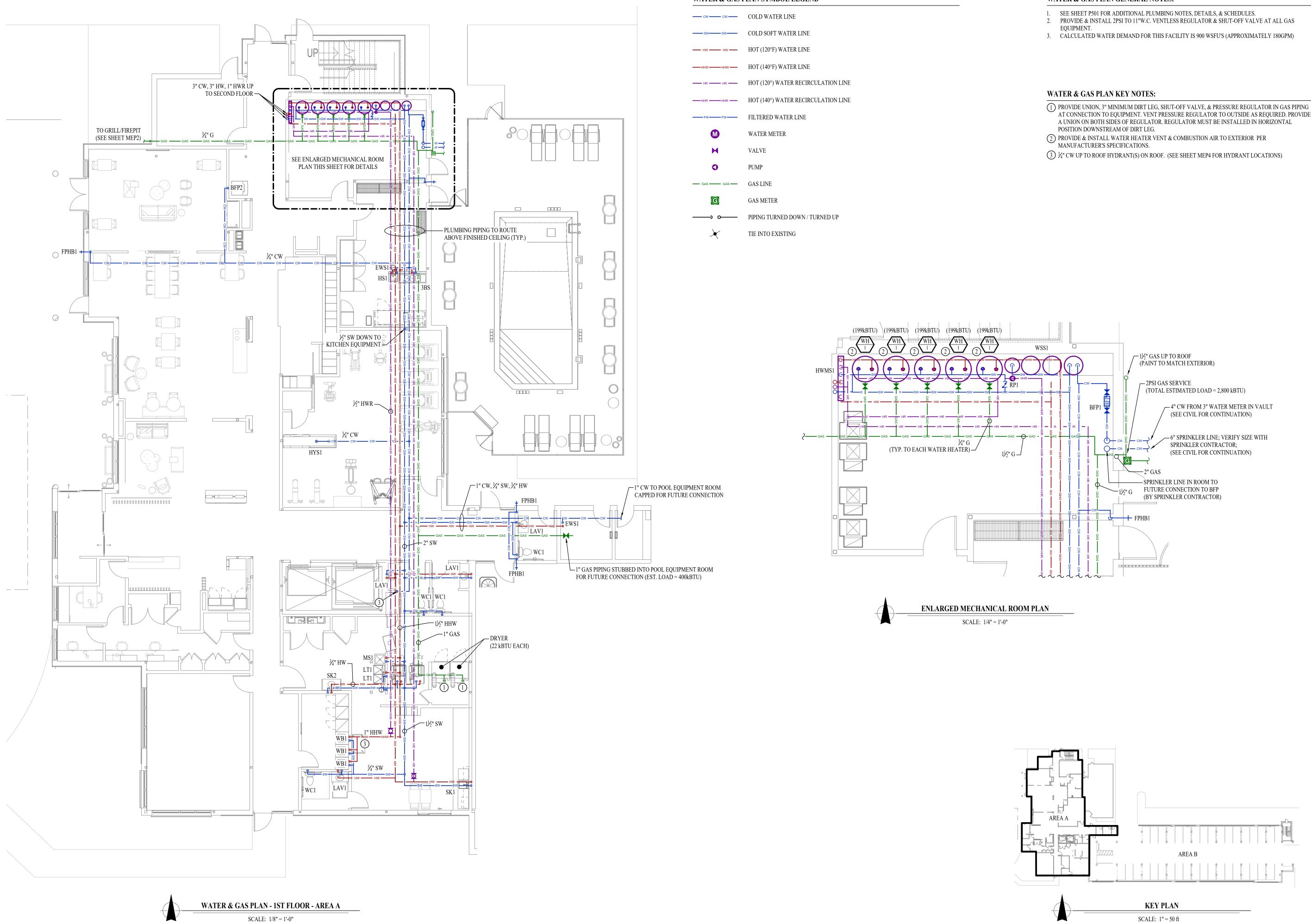
(3) 3" SANITARY STACK UP FROM SECOND FLOOR TO 3" VENT THRU ROOF (VTR). SEE PS100 SERIES SHEETS FOR FIRST AND SECOND FLOOR VENT PLANS.

SANITARY SEWER PLAN - STUDIO DOUBLE QUEEN END

SCALE: 1/4" = 1'-0"

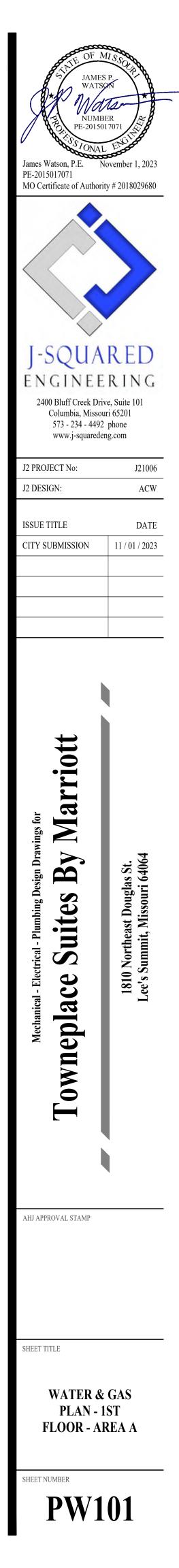


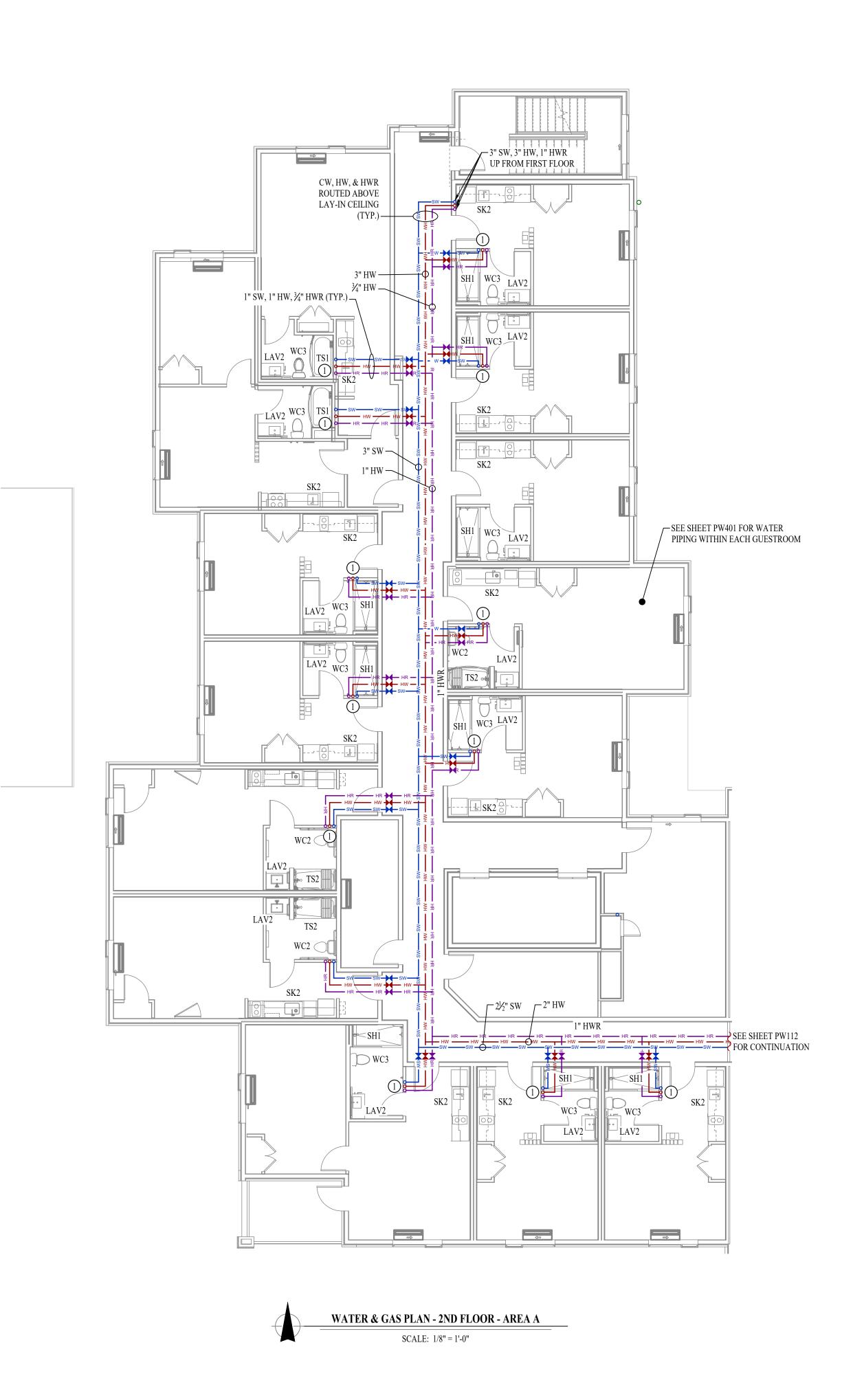




### WATER & GAS PLAN GENERAL NOTES:

- AT CONNECTION TO EQUIPMENT. VENT PRESSURE REGULATOR TO OUTSIDE AS REQUIRED. PROVIDE A UNION ON BOTH SIDES OF REGULATOR. REGULATOR MUST BE INSTALLED IN HORIZONTAL





cw cw	COLD WATER LINE	1.
	COLD SOFT WATER LINE	
HW HW	HOT (120°F) WATER LINE	
	HOT (140°F) WATER LINE	W
	HOT (120°) WATER RECIRCULATION LINE	$\overline{(1)}$
	HOT (140°) WATER RECIRCULATION LINE	
FW FW	FILTERED WATER LINE	
M	WATER METER	
M	VALVE	
0	PUMP	
— GAS — GAS —	GAS LINE	
C	GAS METER	
o	PIPING TURNED DOWN / TURNED UP	
$\left  \right\rangle$	TIE INTO EXISTING	

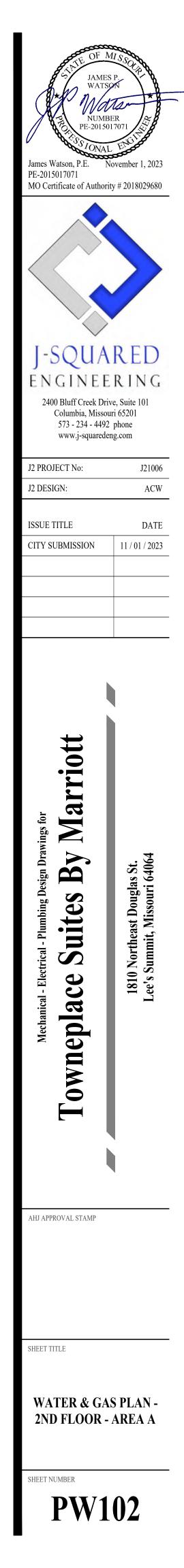


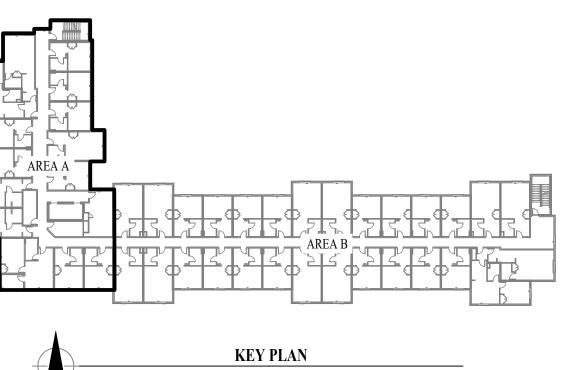
WATER & GAS PLAN GENERAL NOTES:

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

WATER & GAS PLAN KEY NOTES:

1) ³/₄" HW & ³/₄" SW TO SERVE GUESTROOM ON SECOND FLOOR; 1" HW, 1" SW, ³/₄" HWR TO CONTINUE UP TO SERVE THIRD FLOOR GUESTROOM, ³/₄" HW, ³/₄" SW, ³/₄" HWR CONTINUE UP FROM THIRD FLOOR TO SERVE FOURTH FLOOR. SEE SHEET PW401 FOR DETAILS.

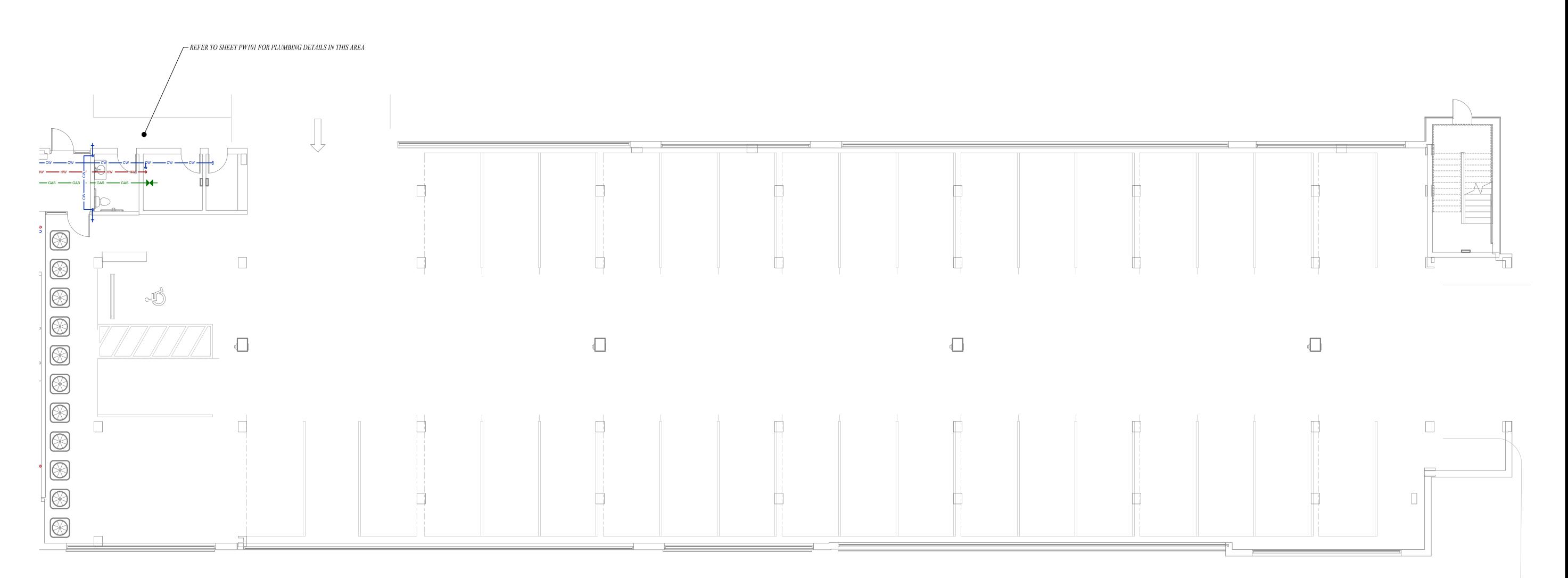




SCALE: 1" = 50 ft

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

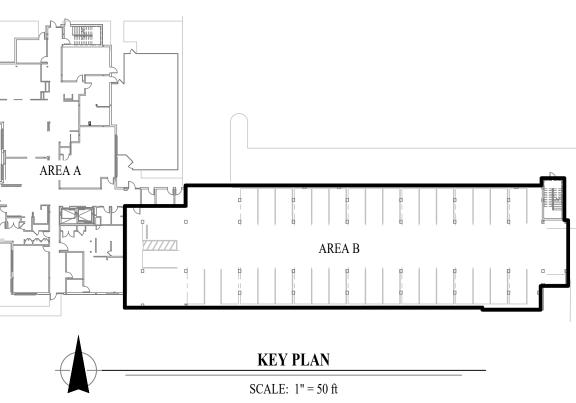
cw cw	COLD WATER LINE
	COLD SOFT WATER LINE
HW HW	HOT (120°F) WATER LINE
	HOT (140°F) WATER LINE
	HOT (120°) WATER RECIRCULATION LINE
	HOT (140°) WATER RECIRCULATION LINE
	FILTERED WATER LINE
M	WATER METER
M	VALVE
0	PUMP
- GAS - GAS -	GAS LINE
G	GAS METER
	PIPING TURNED DOWN / TURNED UP
$\mathbf{i}$	TIE INTO EXISTING



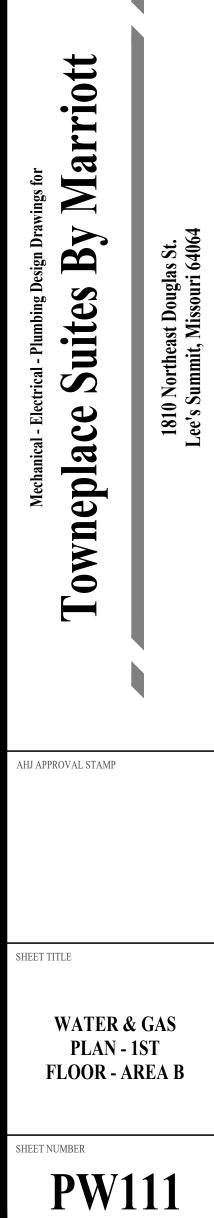
# NOTES:



WATER & GAS PLAN - 1ST FLOOR - AREA B SCALE: 1/8" = 1'-0"







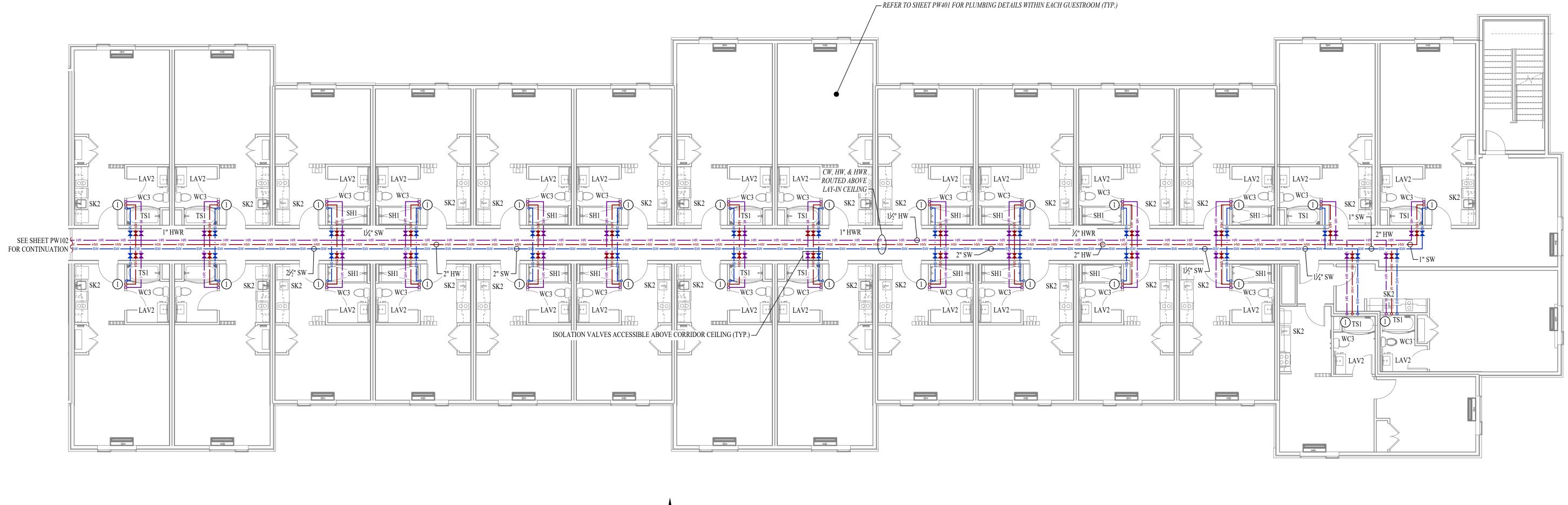
cw cw	COLD WATER LINE
	COLD SOFT WATER LINE
— HW — HW —	HOT (120°F) WATER LINE
	HOT (140°F) WATER LINE
	HOT (120°) WATER RECIRCULATION LINE
	HOT (140°) WATER RECIRCULATION LINE
	FILTERED WATER LINE
Μ	WATER METER
M	VALVE
0	PUMP
— GAS — GAS —	GAS LINE
G	GAS METER
© > o	GAS METER PIPING TURNED DOWN / TURNED UP

### WATER & GAS PLAN GENERAL NOTES:

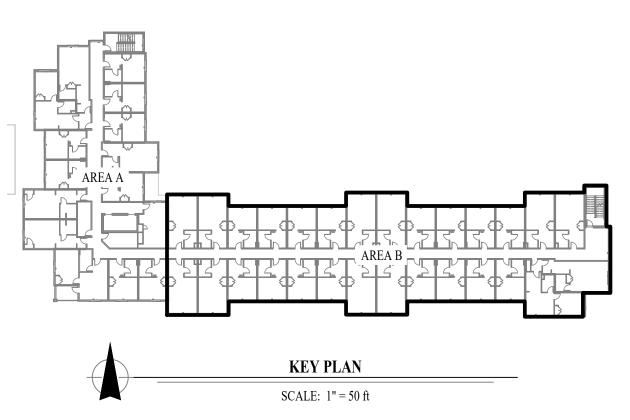
1. SEE SHEET P501 FOR ADDITIONAL PLUMBING NOTES, DETAILS, & SCHEDULES.

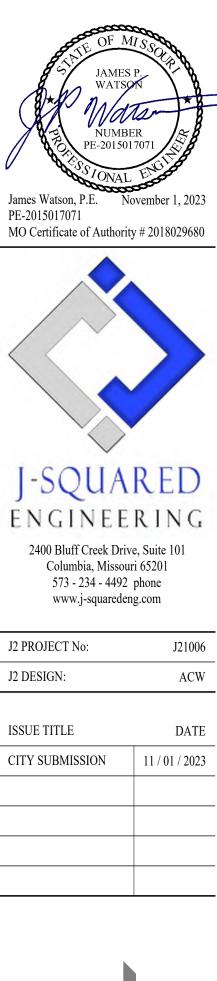
## WATER & GAS PLAN KEY NOTES:

(1) ³/₄" HW & ³/₄" SW TO SERVE GUESTROOM ON SECOND FLOOR; 1" HW & 1" SW CONTINUE UP TO SERVE THIRD FLOOR GUESTROOM, ³/₄" HW & ³/₄" SW CONTINUE UP FROM THIRD FLOOR TO SERVE FOURTH FLOOR. SEE SHEET PW401 FOR DETAILS.

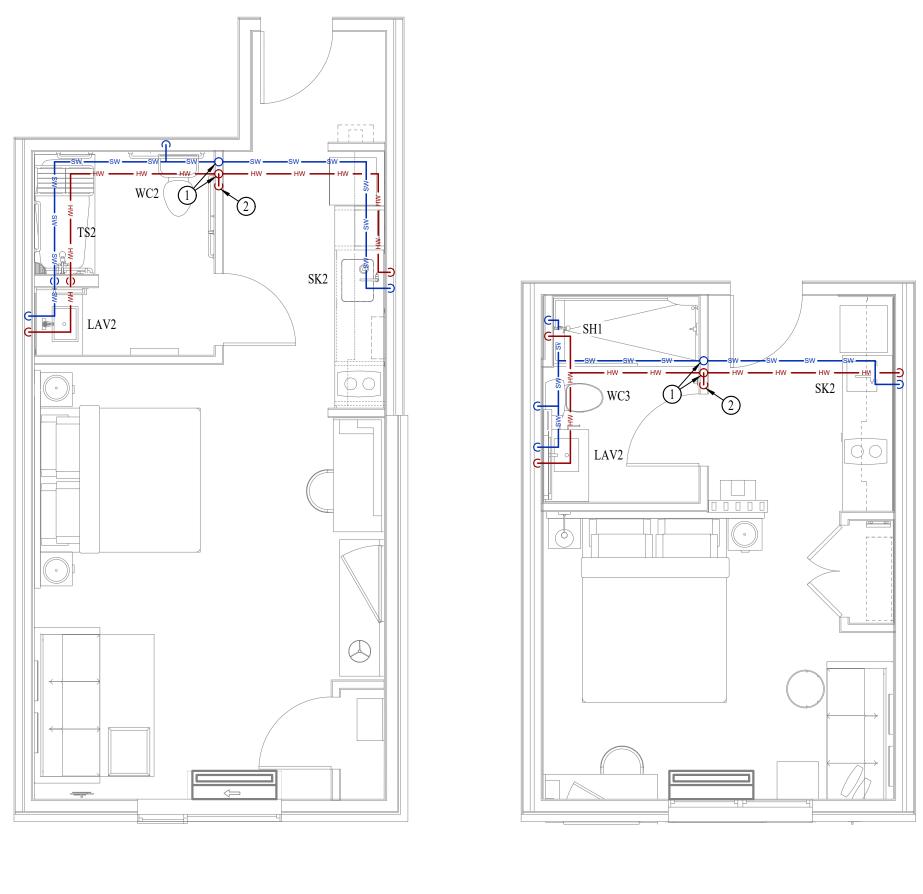


WATER & GAS PLAN - 2ND FLOOR - AREA B SCALE: 1/8" = 1'-0"



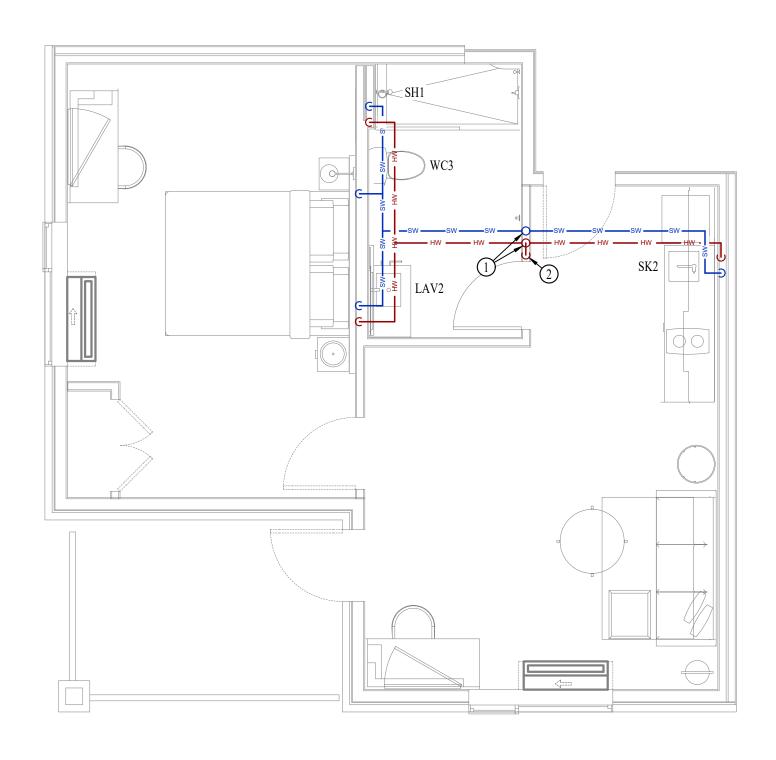


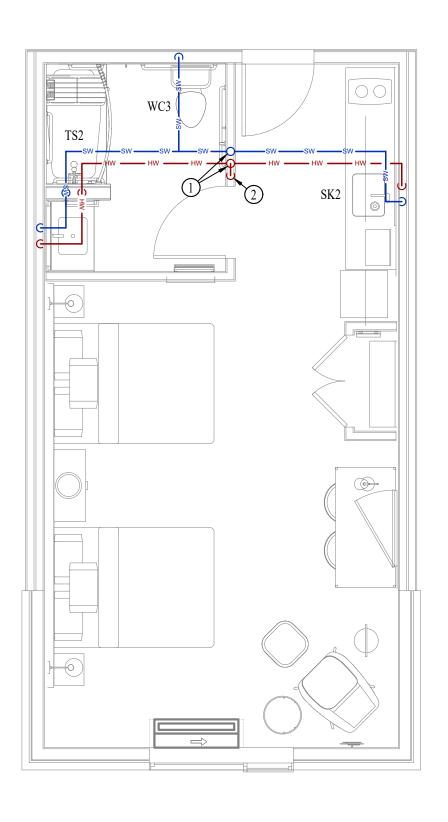
arriott N By Ā glas St. ıri 6406 Suites ast D Miss 1810 North Lee's Summi Towneplace nical - Elec Mec AHJ APPROVAL STAMP SHEET TITLE WATER & GAS PLAN -2ND FLOOR - AREA B SHEET NUMBER **PW112** 



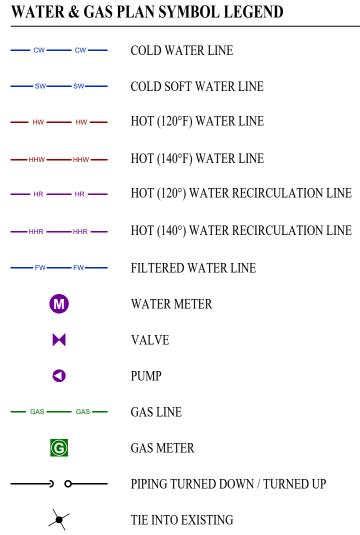


POWER PLAN - KING STUDIO SCALE: 1/4" = 1'-0"





POWER PLAN - ONE BED KING W/ BALCONY



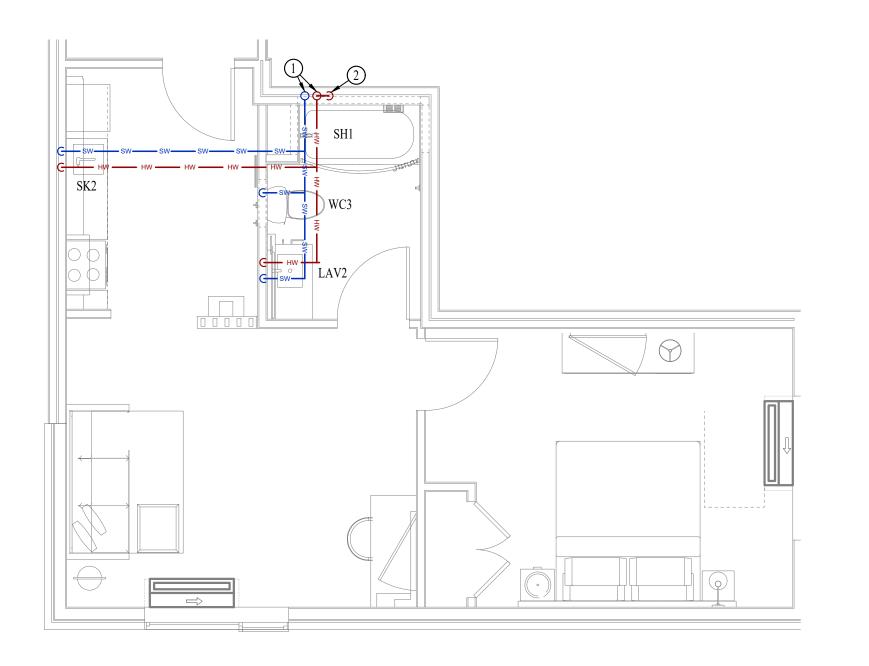


SEE SHEET P501 FOR ADDITIONAL PLUMBING NOTES, DETAILS, & SCHEDULES. 2. WATER PLAN SHOWN APPLIES TO SECOND, THIRD, AND FOURTH FLOORS. SEE PW100 SERIES SHEETS FOR WATER PLAN FOR FIRST AND SECOND FLOOR.

## WATER & GAS PLAN KEY NOTES:

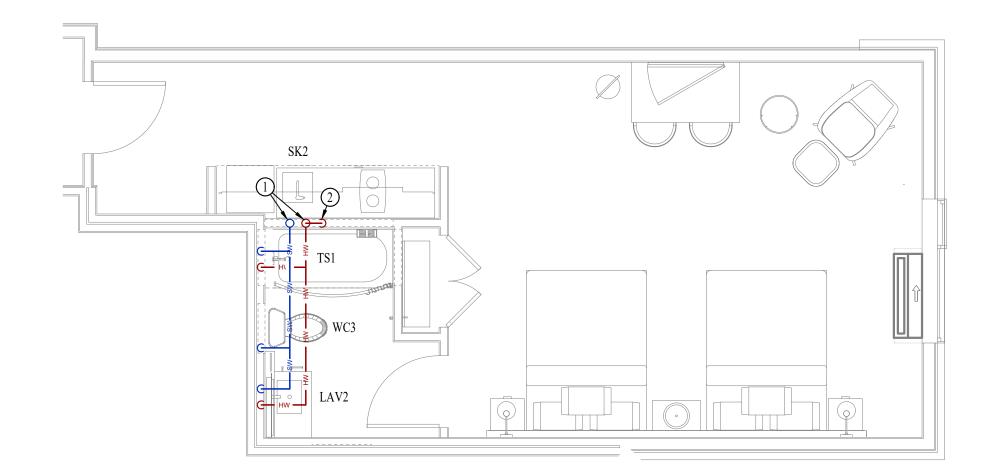
1" HW & 1" SW UP FROM SECOND FLOOR TO THIRD FLOOR; ³/₄" HW & ³/₄" SW CONTINUE UP TO FOURTH FLOOR.

(2) ON FOURTH FLOOR ONLY, CONNECT  $\frac{3}{4}$ " HW TO  $\frac{3}{4}$ " HWR AND RETURN TO SECOND FLOOR. INCLUDE AUTOMATIC FLOW BALANCING VALVE SET TO 1/2" GPM.



POWER PLAN - ONE BED KING SCALE: 1/4" = 1'-0"

> — HW — HW — HV SK2 LAV



### POWER PLAN - STUDIO DOUBLE QUEEN ACCESSIBLE

SCALE: 1/4" = 1'-0"

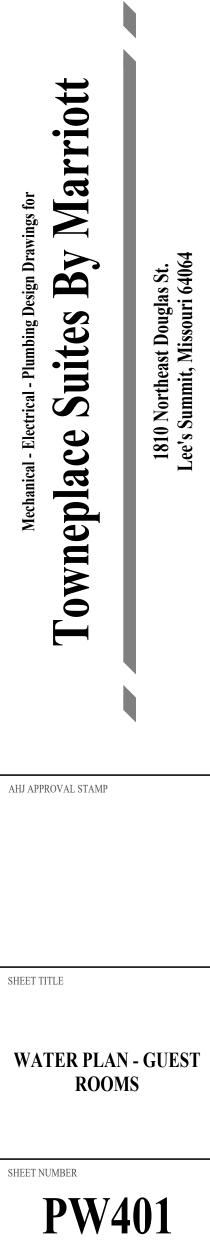
### POWER PLAN - STUDIO DOUBLE QUEEN CENTER

SCALE: 1/4" = 1'-0"

POWER PLAN - STUDIO DOUBLE QUEEN END

SCALE: 1/4" = 1'-0"





### PLUMBING SPECIFICATIONS

### 1. GENERAL

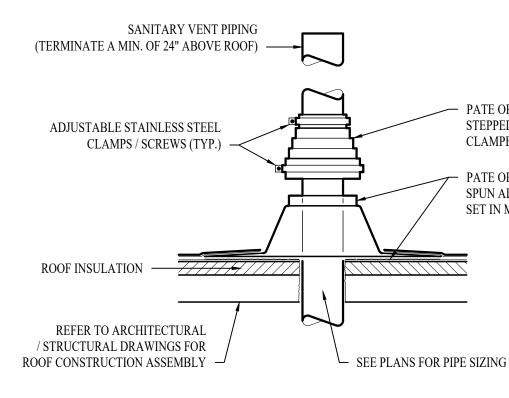
- 1.1. PLUMBING CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL ESCUTCHEONS, 1/2 TURN STOPS, P-TRAPS, AND SUPPLY LINES TO PROVIDE A COMPLETE SYSTEM AT EACH FIXTURE INDICATED ON PLANS UNLESS NOTED OTHERWISE.
- 2. SANITARY
- 2.1. BELOW AND ABOVE GRADE WASTE AND VENT PIPING IN BUILDING TO BE SOLID CORE SCH. 40 PVC DWV. 2.2.
- NO PIPE SMALLER THAN 2" BELOW GRADE. 2.3.
- WASTE AND VENT PIPING IN PLENUMS TO BE CAST IRON, OR PVC WITH AN INSULATION WRAP LISTED FOR USE AS SUCH AN ASSEMBLY.

ALL VENT PIPE TERMINATIONS ARE TO BE LOCATED EITHER 10' HORIZONTALLY OR 3' ABOVE 2.4. MECHANICAL AIR INTAKE LOCATIONS. DOMESTIC WATER 3.

- DOMESTIC WATER PIPING TO BE EITHER COPPER OR PEX. WHERE PEX PIPING IS USED, IT 3.1. SHALL BE INCREASED ONE PIPE SIZE FROM WHAT IS INDICATED ON PLANS FOR ALL PORTIONS OF THE SYSTEM.
- 3.2. PEX-A MAY BE INSTALLED AT SIZES INDICATED ON PLANS IF AN ENGINEERED PLAN IS SUBMITTED SHOWING ACCEPTABLE PRESSURE DROPS AND FLUID VELOCITIES, APPROVAL
- MUST BE GRANTED PRIOR TO PURCHASE AND INSTALLATION. 3.3. COPPER WATER PIPING BELOW GRADE SHALL BE TYPE "K". BELOW GRADE JOINTS SHALL BE SILVER SOLDERED. THERE SHALL BE NO JOINTS IN WATER PIPING LOCATED BENEATH BUILDING SLAB.
- COPPER WATER PIPING ABOVE GRADE SHALL BE TYPE "L". 3.4. 3.5. PROVIDE WATER HAMMER ARRESTORS AT ALL QUICK-CLOSE VALVES. FIXTURES REQUIRING WATER HAMMER ARRESTORS INCLUDE BUT ARE NOT LIMITED TO FLUSH VALVES, SENSOR FAUCETS, AND WASHING MACHINE BOXES. AIR CHAMBERS ARE NOT ACCEPTABLE.
- ALL DOMESTIC WATER PIPING SHALL BE ROUTED WITHIN THERMAL ENVELOPE AND WITHIN 3.6. WALL CAVITIES, ABOVE FINISHED CEILINGS, OR BELOW SLAB TO REMAIN CONCEALED UNLESS OTHERWISE NOTED. NOTIFY ENGINEER OF ANY NECESSARY ADJUSTMENTS THAT REQUIRE PIPING TO BE EXPOSED.
- DOMESTIC WATER PIPING INSULATION 3.7.
- 3.7.1. ALL HW PIPING, WHETHER COPPER OR PEX, SHALL BE INSULATED WITH PLENUM RATED CLOSED CELL ELASTOMERIC INSULATION. FOR PIPING LESS THAN  $1\frac{1}{2}$ ", INSULATION THICKNESS TO BE 1". FOR PIPING 1½" OR GREATER, INSULATION THICKNESS SHALL BE  $1\frac{1}{2}$ ".
- 3.7.2. CW COPPER PIPING TO INSULATED WITH 1/2" PLENUM RATED CLOSED CELL ELASTOMERIC INSULATION. CW PEX NEED NOT BE INSULATED UNLESS NOTED OTHERWISE.

4. GAS PIPING

- ABOVE GRADE NATURAL GAS AND LP PIPING TO BE SCH. 40 BLACK STEEL WITH CLASS 150 4.1. THREADED FITTINGS.
- 4.2. WHERE PIPING IS EXPOSED ON EXTERIOR FACE OF BUILDING, PAINT TO MATCH BUILDING. PAINT YELLOW IN ALL OTHER LOCATIONS.
- ON ROOFTOPS, INSTALL GAS PIPE WITH "ROOFTOP BLOX" PER MANUFACTURE'S 4.3.
- INSTRUCTION.
- 5. STORM DRAIN PIPING 5.1. ABOVE AND BELOW GRADE STORM PIPING SHALL BE SOLID CORE SCHEDULE 40 PVC. ALL PRIMARY & SECONDARY STORM DRAIN PIPING & FITTINGS SHALL BE INSULATED WITH 5.2.
  - 1/2" FIBERGLASS INSULATION WITH ASJ JACKET.





• PATE OR EQUAL

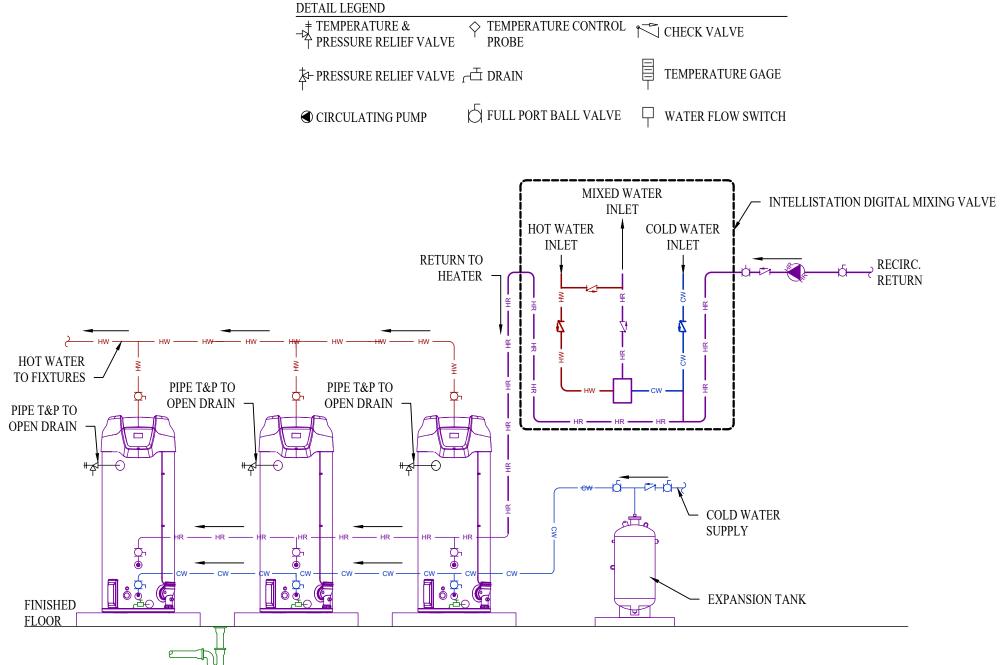
• PATE OR EQUAL

CLAMPED TO BASE

SPUN ALUMINUM BASE

SET IN MASTIC / SEAL

STEPPED POLYVINYLCHLORIDE BOOT

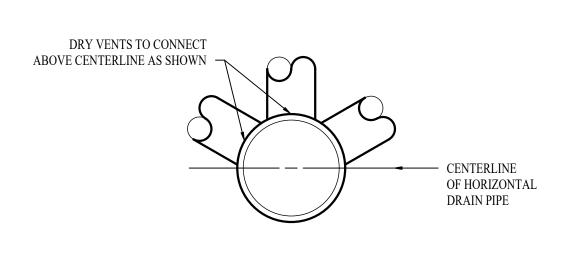


### MULTIPLE WATER HEATER PIPING DETAIL WITH RECIRCULATION AND DIGITAL MIXING VALVE

TAG	DESCRIPTION	MANUFACTURER (OR EQUAL)	MODEL (OR EQUAL)
BFP1	BACKFLOW PREVENTER	WILKINS	375
BFP2	BACKFLOW PREVENTER	ZURN	950XLT
DN1	DOWNSPOUT NOZZLE	ZURN	Z199
FXP1	EXPANSION TANK	WATTS	DETA-100
FCOI	FLOOR CLEANOUT	ZURN	1400
FDI	FLOOR DRAIN	ZURN	Z415-BZ
FPIBI	FROST PROOF HOSE BIB	WOODFORD	MODEL 67
FS1	FLOOR SINK	ZURN	FD2370
FS2	FLOOR SINK	ZURN	Z.1920
GF1	GREASE TRAP	SCHIER	GB-75
HDI	HUB DRAIN	-	-
HS1	HAND SINK	REGENCY	600HS17
IWMS1	HOT WATER MIXING STATION	WATTS	INTELLISTATION
LAVI	LA VATORY (DROP-IN W/ BATTERY SENSOR FAUCET)	AMERICAN STANDARD	0475.028
LA V2	LA VATORY (INTEGRAL BOWL)	-	-
LTI	LAUNDRYTUB	SWAN	MF4F
MS1	MOP SINK	FIAT	MSB2424
RHI	ROOF HYDRANT	WOODFORD	SRH-MS
RP1	HOT WATER RECIRCULATION PUMP	GRUNDFOS	ALPHAI
SHI	SHOWFR	AQUATIC	16030STT
SKI	SINGLE COMPARTMENT SINK (22x19x7)	EI.KA Y	LR2219
SK2	SINGLE COMPARTMENT SINK (22x19x7)	ЕТКАХ	LR2219
SK3	SINGLE COMPARTMENT SINK (22x19x7)	FI.KAY	LR2219
SP1	SUMP PUMP	ZOFLLER	153-0002
RDI	ROOF DRAIN	ZURN	Z100
TS1	TUB / SHOWER	AQUATIC	260330
TS2	TUB / SHOWER - ADA	AQUATIC	2603CTH
WBI	WASHER BOX	OATEY	38529
WC1	WATER CLOSET - ADA HEIGHT - TANK	AMERICAN STANDARD	215AA.004
WC2	WATER CLOSET - ADA HEIGHT - TANK	AMERICAN STANDARD	215A A .004
WC3	WATER CLOSET - STANDARD HEIGHT - TANK	AMERICAN STANDARD	215CA.004
WHI	WATER HEATER - GAS	ΑΟ SMITH	BTH-199
WSSI	WATER SOFTENER SYSTEM	CULLIGAN	HCE-450-3
YCO1	YARD CLEAN OUT	ZURN	Z1400

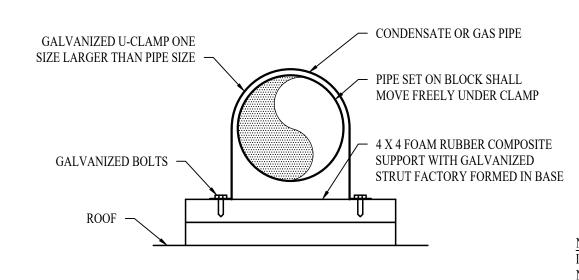
NOTES

1. VERIFY NECESSARY FIXTURES MEET A DA REQUIREMENTS WITH A RCHITECT PRIOR TO INSTALLATION 2. VERIFY ALL FIXTURES WITH OWNER & BRAND REQUREMENTS PRIOR TO PURCHASE



DRY VENT DETAIL





STEEL PIPE NOMINAL SIZE OF PIPE (IN.)	SPACING OF SUPPORTS (FT.)
1/2"	6
³ ⁄ ₄ " OR 1"	8
1 ¹ / ₄ " OR LARGER (HORIZONTAL)	10

INSTALL SUPPORTS ACCORDING TO NATIONAL FUEL GAS CODE 2015 EDITION

PIPE SUPPORT DETAIL

## E SCHEDULE

NOTES

RPZ - 3" 2" DOUBLE-CHECK FOR IRRIGATION

VITH 21072 TRAP SEAT

/ITH HALF GRATE & DOME STRAINER WITH HALF GRATE

WITH Z1072 TRAP SEAL

2.1/2", WITH BAS INTEGRATION, WITH 'RPI' RECIRCULATION PUMP WITH ZURN Z6915-XL-L-TMV-1 FAUCET, 1/4 TURN STOPS, AND BRAIDED STAINLESS STEEL SUPPLIES WITH ZURN 281104-XL FAUCET, 1/4 TURN STOPS, AND BRAIDED STAINLESS STEEL SUPPLIES VITH ZURN Z812J4-XL /ITH ZURN Z843M1 FAUCET WITH WALL HOOK

WITH BAS INTEGRATION 60/\$0 ALCOVE ONE-PIECE SHOWER, WITH MOEN POSI-TEMP SHOWER VALVE & TRIM KIT WITH TWO HANDLED ZURN Z871C4-XL FAUCET WITH TWO HANDLED ZURN Z871C4-XL FAUCET WITH TWO HANDLED ZURN Z871C4-XL FAUCET 120V, 1/2 HP

60:30 ALCOVE ONE-PIPCE TUB/SHOWER: WITH MOEN POSI-TEMP SHOWER VALVE & TRIM KIT 60x30 ADA WITH HANDHELD SHOWER & SLIDE BAR, GRAB BARS, REMOVABLE SEAT, MIXING VALVE, TRIM KI WASHER BOX W/ 1/4 TURN VALVES WITH CHURCH 9500SSCT SELF SUSTAINING SEAT, STAINLESS BRAIDED SUPPLY, AND 1/4 TURN SHUT-OFF.

WITH CHURCH 9500SSCT SELF SUSTAINING SEAT, STAINLESS BRAIDED SUPPLY, AND 1/4 TURN SHUT-OFF. WITH CHURCH 9500SSCT SELF SUSTAINING SEAT. STAINLESS BRAIDED SUPPLY, AND 1/4 TURN SHUT-OFF. 199kBTU, 100 GALLON, WITH 'EXP1'

. 1600PM CONTINUOUS, 2100PM PEAK

DRINKIN

FLOO

HAND/ HOS LAV MO

ICE MAKER

WATER CLOSE

WATER CLOSE

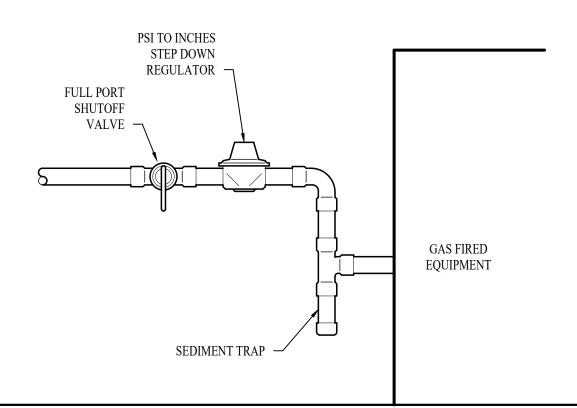
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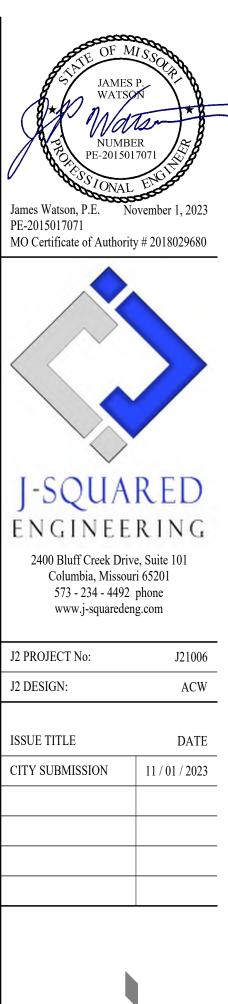
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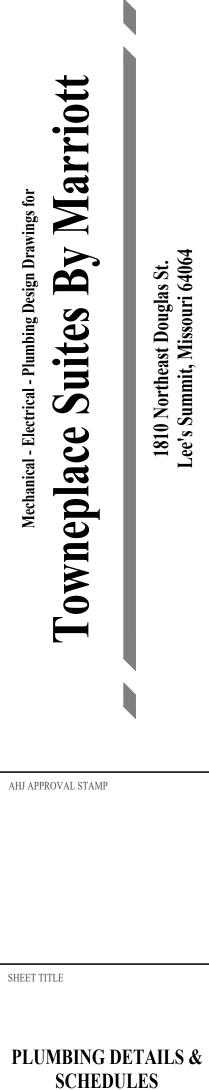
FIXTURE		SANITARY PIPING		SUPPLY PIPING	
ТҮРЕ	TYPICAL ABBREVIATION	WASTE CONNECTION	VENT CONNECTION	COLD WATER CONNECTION	HOT WATER CONNECTION
GFOUNTAIN	DF	1-1/2"	1-1/4"	1/2"	
OR DRAIN	FD	3*	2"	-	
/ HAIR SINK	HS / SK	2*	1-1/4"	1/2"	1/2"
SE BIBB	HB	-	-	3/4"	
VATORY	LAV	1-1/2"	1-1/4"	1/2"	1/2"
OP SINK	MS	3*	1-1/2"	1/2*	1/2"
R OUTLET BOX	REF	-	-	1/2"	-
IOWER	SH	3*	1-1/2"	1/2"	1/2"
RINAL	UR	2*	1-1/4"	3/4"	-
SET (FLUSH TANK)	WC	3"	2"	1/2"	
ET (FLUSH VALVE)	WC	3"	2"	1"	

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



GAS EQUIPMENT SUPPLY DETAIL W/ REGULATOR





SHEET NUMBER

