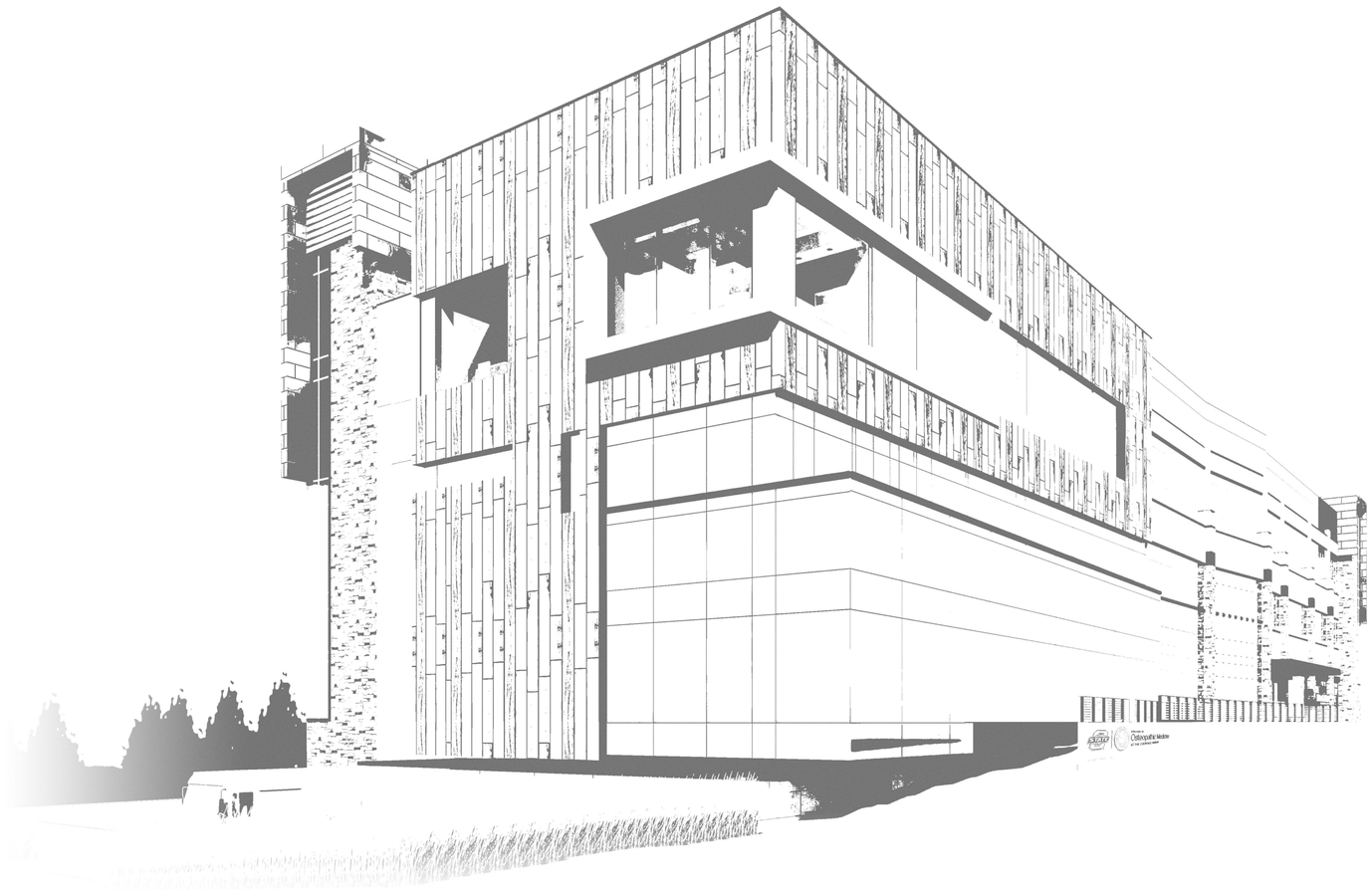
COLLEGE OF
Osteopathic Medicine
AT THE CHEROKEE NATION

95% CONSTRUCTION DOCUMENTS



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CONSULTANT LOGO:

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COLLEGE OF Osteopathic Medicine AT THE CHEROKEE NATION
TAHLEQUAH, OKLAHOMA

KEY PLAN:

PROJECT PHASE:
95% CONSTRUCTION DOCUMENTS

REVISIONS

#	DATE	DESCRIPTION

DATE:	JOB NUMBER:
07-26-19	17-13

SHEET NUMBER:
G0.00

COVER SHEET

INDEX OF DRAWINGS - OVERALL

SHEET NUMBER	SHEET NAME	01-25-19 - BID PACKAGE 01	02-08-19 - BID PACKAGE 02	02-22-19 - SCHEMATIC DESIGN	03-20-19 - BID PACKAGE 03	04-16-19 - BID PACKAGE 01 - ASI 01	04-16-19 - BID PACKAGE 02 - ASI 01	04-19-19 - DESIGN DEVELOPMENT	04-22-19 - BID PACKAGE 03 - ASI 01	04-30-19 - BID PACKAGE 01 - ASI 02	05-10-19 - BID PACKAGE 04	05-24-19 - BID PACKAGE 02 - ASI 02	05-24-19 - BID PACKAGE 03 - ASI 02	05-24-19 - BID PACKAGE 04 - ASI 01	06-14-19 - 65% CONSTRUCTION DOCUMENTS	06-17-19 - BID PACKAGE 04 - ASI 02	07-12-19 - BID PACKAGE 03 - ASI 03	07-22-19 - BID PACKAGE 04 - ASI 03	07-26-19 - 95% CONSTRUCTION DOCUMENTS
GENERAL																			
G0.00	COVER SHEET			■				■							■				■
G0.000	OVERALL SHEET INDEX			■				■							■				■
G0.01	COVER / INDEX	■				■				■									
G0.02	COVER / INDEX		■				■					■							
G0.03	COVER / INDEX				■				■				■				■		
G0.04	COVER / INDEX										■			■		■		■	
CIVIL																			
C0-001	CIVIL TITLE SHEET			■				■											■
C1-101	EXISTING CONDITIONS AND SURVEY CONTROL	■																	
C3-101	SITE PLAN			■				■											■
C3-501	SITE DETAILS			■				■											■
C3-502	CONCRETE JOINT DETAILS			■				■											■
C3-503	CONCRETE JOINT LAYOUT DETAILS																		■
C3-504	SITE FENCING DETAILS																		■
C4-101	UTILITY PLAN										■								
C5-101	GRADING PLAN		■				■					■							
C5-102	GRADING PLAN		■				■												
C5-103	EARTHWORK VOLUMES STUDY		■				■												
C5-104	GRADING PLAN						■												
C5-105	GRADING PLAN						■												
C5-701	EROSION CONTROL PLAN	■																	
C5-702	EROSION CONTROL DETAILS AND NOTES	■																	
C6-201	STORM SEWER PLAN AND PROFILE			■				■			■							■	
C6-202	STORM SEWER PLAN AND PROFILE			■				■			■							■	
C6-203	STORM SEWER PLAN AND PROFILE			■				■			■								
C6-204	FOOTER DRAIN PLAN AND PROFILE										■							■	
C6-205	FOOTER DRAIN PLAN AND PROFILE																	■	
C6-501	STORM SEWER DETAILS										■								
C6-502	STORM SEWER DETAILS										■								
C6-503	STORM SEWER DETAILS										■								
C6-504	STORM SEWER DETAILS										■								
C6-505	STORM SEWER DETAILS										■			■					
C6-801	EXISTING HYDROLOGY			■				■			■								
C6-802	PROPOSED HYDROLOGY							■			■								
C7-001	WATER TITLE SHEET					■				■									
C7-201	WATER PLAN AND PROFILE	■				■				■									
C7-202	WATER PLAN AND PROFILE			■		■				■									
C7-203	WATER PLAN AND PROFILE					■				■									
C7-501	WATER DETAILS									■									
C8-201	SEWER PLAN AND PROFILE			■				■			■								
C8-501	LIFT STATION DETAILS										■								
C24-101	DEMOLITION PLAN	■																	
ARCHITECTURAL																			
API	PROJECT INFORMATION							■							■				■
ALS.000	LIFE SAFETY CODE COMPLIANCE INFORMATION							■							■				■
ALS.100	LIFE SAFETYPLAN - BASEMENT							■							■				■
ALS.110	LIFE SAFETYPLAN - LEVEL 1							■							■				■
ALS.120	LIFE SAFETYPLAN - LEVEL 2							■							■				■
ALS.130	LIFE SAFETYPLAN - LEVEL 3							■							■				■
AS.01	SITE PLAN / DETAILS							■							■				■
A1.00	OVERALL FLOOR PLANS														■				■
A1.01	OVERALL FLOOR PLANS														■				■
A1.02A	FLOOR PLAN BASEMENT LEVEL SECTOR 02 SHELL														■				■
A1.02B	FLOOR PLAN BASEMENT LEVEL SECTOR 02							■							■				■
A1.11A	FLOOR PLAN LEVEL 01 SECTOR 01 SHELL														■				■
A1.11B	FLOOR PLAN LEVEL 01 SECTOR 01							■							■				■
A1.12A	FLOOR PLAN LEVEL 01 SECTOR 02 SHELL														■				■
A1.12B	FLOOR PLAN LEVEL 01 SECTOR 02							■							■				■
A1.21A	FLOOR PLAN LEVEL 02 SECTOR 01 SHELL														■				■
A1.21B	FLOOR PLAN LEVEL 02 SECTOR 01							■							■				■
A1.22A	FLOOR PLAN LEVEL 02 SECTOR 02 SHELL														■				■
A1.22B	FLOOR PLAN LEVEL 02 SECTOR 02							■							■				■
A1.31A	FLOOR PLAN LEVEL 03 SECTOR 01 SHELL														■				■
A1.31B	FLOOR PLAN LEVEL 03 SECTOR 01							■							■				■
A1.32A	FLOOR PLAN LEVEL 03 SECTOR 02 SHELL														■				■
A1.32B	FLOOR PLAN LEVEL 03 SECTOR 02							■							■				■
A1.40	ROOF PLANS			■				■							■				■
A1.41	ROOF DETAILS							■							■				■
A1.51	ENLARGED PLANS & ELEVATIONS - SIMULATION SUITE			■				■							■				■
A1.52	ENLARGED PLANS & ELEVATIONS - SIMULATION SUITE							■							■				■
A1.60	ENLARGED TOILET PLANS							■							■				■
A1.61	TOILET ELEVATIONS							■							■				■
A1.62	TOILET ELEVATIONS							■							■				■
A1.63	TOILET ELEVATIONS							■							■				■
A1.64	STANDARD TOILET LAYOUT / ACCESSORIES							■							■				■
A1.65	SHOWER DETAILS							■							■				■
A2.00	PARTITION TYPES							■							■				■
A2.01	PARTITION FRAMING / HEAD DETAILS							■							■				■
A2.02	METAL FABRICATIONS							■							■				■
A3.01	EXTERIOR ELEVATIONS							■							■				■
A3.02	EXTERIOR ELEVATIONS														■				■
A3.03	EXTERIOR ELEVATIONS														■				■
A4.01	WALL SECTIONS							■							■				■
A4.02	WALL SECTIONS							■							■				■
A4.03	WALL SECTIONS							■							■				■
A4.04	WALL SECTIONS							■							■				■
A4.05	WALL SECTIONS							■							■				■
A4.06	WALL SECTIONS							■							■				■
A5.01	WALL SECTION DETAILS														■				■
A5.02	WALL SECTION DETAILS														■				■
A5.03	WALL SECTION DETAILS														■				■
A5.04	WALL SECTION DETAILS														■				■
A5.05	WALL SECTION DETAILS														■				■
A5.06	WALL SECTION DETAILS														■				■
A5.07	WALL SECTION DETAILS														■				■
A6.00	DOOR SCHEDULE / INFORMATION							■							■				■
A6.01	HOLLOW METAL FRAME / INTERIOR STOREFRONT ELEVATIONS							■							■				■
A7.11	INTERIOR ELEVATIONS - GROSS ANATOMY			■				■							■				■
A7.12	INTERIOR ELEVATIONS - NEUROANATOMY			■				■							■				■
A7.13	INTERIOR ELEVATIONS - OMM			■				■							■				■
A7.14	INTERIOR ELEVATIONS - LECTURE HALL 1&2			■				■							■				■
A7.15	INTERIOR ELEVATIONS - LECTURE HALL 2 & LEARNING LAB 1							■							■				■
A7.16	INTERIOR ELEVATIONS - LEARNING LABS & GROUP STUDY RMS			■				■							■				■
A7.17	INTERIOR ELEVATIONS - CLINICAL SKILLS			■				■							■				■
A7.18	INTERIOR ELEVATIONS - CLINICAL EXAM			■				■							■				■
A7.19	INTERIOR ELEVATIONS - CE PREBRIEF, DEBRIEF, & STUDENT SPACES							■							■				■
A7.20	INTERIOR ELEVATIONS - LEVEL 3 CONFERENCE RMS														■				■
A7.30	MILLWORK PLANS AND ELEVATIONS							■							■				■
A7.31	MILLWORK ELEVATIONS							■							■				■
A7.32	MILLWORK DETAILS							■							■				■
A7.40	INTERIOR DETAILS														■				■
A7.51	LOBBY STAIR / BALCONY DETAIL														■				■
A7.52	L1 CORR W STAIR / RAMP DETAILS														■				■
A7.53	NORTH STAIR PLANS AND SECTION														■				■
A7.54	SOUTH STAIR PLANS AND SECTION														■				■
A7.55	STEEL STAIR SECTIONS AND DETAILS														■				■
A8.00	INTERIOR FINISH SCHEDULE & LEGEND							■							■				■
A8.01	WALL PROTECTION, TRANSITIONS & THRESHOLDS							■							■				■
A8.02	FINISH PLAN BASEMENT LEVEL SECTOR 02							■							■				■
A8.11	FINISH PLAN LEVEL 01 SECTOR 01							■							■				■
A8.12	FINISH PLAN LEVEL 01 SECTOR 02							■							■				■
A8.21	FINISH PLAN LEVEL 02 SECTOR 01							■							■				■
A8.22	FINISH PLAN LEVEL 02 SECTOR 02							■							■				■
A8.31	FINISH PLAN LEVEL 03 SECTOR 01							■							■				■
A8.32	FINISH PLAN LEVEL 03 SECTOR 02							■							■				■
A9.02	CEILING PLAN BASEMENT LEVEL SECTOR 02							■							■				■
A9.11	CEILING PLAN LEVEL 01 SECTOR 01							■							■				■
A9.12	CEILING PLAN LEVEL 01 SECTOR 02							■							■				■
A9.21	CEILING PLAN LEVEL 02 SECTOR 01							■							■				■
A9.22	CEILING PLAN LEVEL 02 SECTOR 02							■							■				■
A9.31	CEILING PLAN LEVEL 03 SECTOR 01							■							■				■
A9.32	CEILING PLAN LEVEL 03 SECTOR 02							■							■				■
A9.40	CEILING DETAILS							■							■				■
A10.00	SIGNAGE SCHEDULE							■							■				■
A10.01	SIGNAGE ELEVATIONS							■							■				■
A10.02	SIGNAGE PLAN - BASEMENT							■							■				■
A10.11	SIGNAGE PLAN - LEVEL 01 SECTOR 01							■							■				■
A10.12	SIGNAGE PLAN - LEVEL 01 SECTOR 02							■							■				■
A10.21	SIGNAGE PLAN - LEVEL 02 SECTOR 01							■							■				■
A10.22	SIGNAGE PLAN - LEVEL 02 SECTOR 02							■							■				■
A10.31	SIGNAGE PLAN - LEVEL 03 SECTOR 01							■							■				■
A10.32	SIGNAGE PLAN - LEVEL 03 SECTOR 02							■							■				■

INDEX OF DRAWINGS - OVERALL

SHEET NUMBER	SHEET NAME	01-25-19 - BID PACKAGE 01	02-08-19 - BID PACKAGE 02	02-22-19 - SCHEMATIC DESIGN	03-20-19 - BID PACKAGE 03	04-16-19 - BID PACKAGE 01 - ASI 01	04-16-19 - BID PACKAGE 02 - ASI 01	04-19-19 - DESIGN DEVELOPMENT	04-22-19 - BID PACKAGE 03 - ASI 01	04-30-19 - BID PACKAGE 01 - ASI 02	05-10-19 - BID PACKAGE 04	05-24-19 - BID PACKAGE 02 - ASI 02	05-24-19 - BID PACKAGE 03 - ASI 02	05-24-19 - BID PACKAGE 04 - ASI 01	06-14-19 - 65% CONSTRUCTION DOCUMENTS	06-17-19 - BID PACKAGE 04 - ASI 02	07-12-19 - BID PACKAGE 03 - ASI 03	07-22-19 - BID PACKAGE 04 - ASI 03	07-26-19 - 95% CONSTRUCTION DOCUMENTS
STRUCTURAL																			
S0.01	ABBREVIATIONS AND LEGEND			■	■														
S0.02	GENERAL STRUCTURAL NOTES			■	■				■										
S0.03	GENERAL STRUCTURAL NOTES AND SPECIAL INSPECTION TABLES			■	■				■										
S1.02	BASEMENT FOUNDATION PLAN - SECTOR 2				■				■				■				■		
S1.10	FIRST FLOOR FRAMING PLAN - OVERALL PLAN				■														
S1.11	FIRST FLOOR FOUNDATION AND FRAMING PLAN - SECTOR 1			■	■				■				■				■		
S1.12	FIRST FLOOR FRAMING PLAN - SECTOR 2			■	■				■				■				■		
S1.13	FIRST FLOOR SLAB REINFORCEMENT PLAN - SECTOR 2				■														
S1.20	SECOND FLOOR FRAMING PLAN - OVERALL PLAN			■				■			■								
S1.21	SECOND FLOOR FRAMING PLAN - SECTOR 1			■				■			■					■			
S1.22	SECOND FLOOR FRAMING PLAN - SECTOR 2			■				■			■					■			
S1.30	THIRD FLOOR FRAMING PLAN - OVERALL PLAN			■				■			■								
S1.31	THIRD FLOOR FRAMING PLAN - SECTOR 1			■				■			■					■			
S1.32	THIRD FLOOR FRAMING PLAN - SECTOR 2			■				■			■					■			
S1.40	ROOF FRAMING PLAN -OVERALL PLAN			■				■			■								
S1.41	ROOF FRAMING PLAN - SECTOR 1			■				■			■								
S1.42	ROOF FRAMING PLAN - SECTOR 2			■				■			■								
S1.50	HIGH ROOF FRAMING PLAN - OVERALL PLAN			■				■			■								
S1.51	HIGH ROOF FRAMING PLAN - SECTOR 1			■				■			■					■			
S1.52	HIGH ROOF FRAMING PLAN - SECTOR 2			■				■			■					■			
S2.01	MOMENT FRAME ELEVATIONS			■	■								■						
S2.02	MOMENT FRAME AND BRACED FRAME ELEVATIONS			■	■								■						
S2.03	FOUNDATION PILASTER ELEVATIONS				■														
S3.01	BUILDING SECTIONS			■	■								■						
S3.02	BUILDING SECTIONS			■	■								■						
S3.11	FOUNDATION SECTIONS			■	■				■				■						
S3.12	FOUNDATION SECTIONS			■	■				■				■				■		
S3.21	FRAMING SECTIONS			■				■			■								
S3.22	FRAMING SECTIONS							■			■								
S3.23	FRAMING SECTIONS										■					■			
S4.01	ENLARGED STAIR PLANS			■	■								■				■		
S4.02	ENLARGED PLANS			■	■				■				■						
S5.11	CONCRETE DETAILS				■				■				■				■		
S5.51	STEEL DETAILS			■				■			■					■			
S5.52	STEEL DETAILS			■				■			■								
S5.53	STEEL DETAILS							■			■								
S5.54	STEEL DETAILS										■					■			
S5.61	TYPICAL VERTICAL CIRCULATION FOUNDATION DETAILS			■	■														
S5.62	TYPICAL VERTICAL CIRCULATION FRAMING DETAILS			■				■			■								
S6.01	SCHEDULES			■	■				■				■						
S7.11	TYPICAL CONCRETE DETAILS			■	■														
S7.31	TYPICAL COLD-FORMED DETAILS			■				■			■								
S7.41	TYPICAL STEEL DETAILS			■				■			■					■			
S8.01	SIDEPLATE GENERAL NOTES AND CONSTRUCTION GUIDELINES										■								
S8.02	SIDEPLATE COLUMN DETAILS, A TYPE NO PLATE D										■								
S8.03	SIDEPLATE COLUMN DETAILS, B TYPE NO PLATE D										■								
S8.04	SIDEPLATE COLUMN DETAILS, A TYPE										■								
S8.05	SIDEPLATE BEAM DETAILS										■								
S8.06	SIDEPLATE BEAM DETAILS, NARROW										■								
S8.07	SIDEPLATE FIELD ERECTION DETAILS										■								
S8.08	SIDEPLATE MISC DETAILS AND COORDINATION ITEMS										■								
PLUMBING																			
P0.00	PLUMBING DETAILS, LEGNEDS, NOTES AND SCHEDULES							■			■								
P0.01	UNDERGROUND PLUMBING NOTES							■			■								
P0.02	UNDERGROUND FOOTING COORDINATION			■				■			■			■		■			
P0.03	UNDERGROUND BASEMENT PLUMBING PLAN			■				■			■			■		■			
P0.04	UNDERGROUND PLUMBING VENT/DRAIN ISOMETRIC BASEMENT							■			■			■		■			
P0.05	UNDERGROUND LEVEL 01 - OVERALL PLAN										■					■			
P0.06	UNDERGROUND LEVEL 01 PLUMBING PLAN										■			■		■			
P0.07	UNDERGROUND PLUMBING VENT/DRAIN ISOMETRIC LEVEL 01										■					■			
P1.00	PLUMBING LEGENDS, NOTES AND SCHEDULES			■				■							■				■
P1.01	PLUMBING DETAILS							■							■				■
P2.00	PLUMBING DRAIN PLAN - BASEMENT LEVEL			■				■							■				■
P2.01	PLUMBING DRAIN/VENT ISOMETRIC BASEMENT LEVEL							■							■				■
P2.10	OVERALL DRAIN PLAN - LEVEL 1			■				■							■				■
P2.11	PLUMBING DRAIN PLAN - LEVEL 01 SECTOR 01			■				■							■				■
P2.12	PLUMBING DRAIN PLAN - LEVEL 01 SECTOR 02			■				■							■				■
P2.13	PLUMBING DRAIN/VENT ISOMETRIC LEVEL 01														■				■
P2.20	OVERALL DRAIN PLAN - LEVEL 02			■				■							■				■
P2.21	PLUMBING DRAIN PLAN - LEVEL 02 SECTOR 01			■				■							■				■
P2.22	PLUMBING DRAIN PLAN - LEVEL 02 SECTOR 02			■				■							■				■
P2.23	PLUMBING DRAIN/VENT ISOMETRIC LEVEL 02														■				■
P2.30	OVERALL DRAIN PLAN - LEVEL 03			■				■							■				■
P2.31	PLUMBING DRAIN PLAN - LEVEL 03 SECTOR 01			■				■							■				■
P2.32	PLUMBING DRAIN PLAN - LEVEL 03 SECTOR 02			■				■							■				■
P2.33	PLUMBING DRAIN/VENT ISOMETRICA LEVEL 03														■				■
P3.00	PLUMBING SUPPLY PLAN - BASEMENT LEVEL			■				■							■				■
P3.10	OVERALL SUPPLY PLAN - LEVEL 01			■				■							■				■
P3.11	PLUMBING SUPPLY PLAN - LEVEL 01 SECTOR 01							■							■				■
P3.12	PLUMBING SUPPLY PLAN - LEVEL 01 SECTOR 02			■				■							■				■
P3.20	OVERALL SUPPLY PLAN - LEVEL 02			■				■							■				■
P3.21	PLUMBING SUPPLY PLAN - LEVEL 02 SECTOR 01							■							■				■
P3.22	PLUMBING SUPPLY PLAN - LEVEL 02 SECTOR 02			■				■							■				■
P3.30	OVERALL SUPPLY PLAN - LEVEL 03			■				■							■				■
P3.31	PLUMBING SUPPLY PLAN - LEVEL 03 SECTOR 01							■							■				■
P3.32	PLUMBING SUPPLY PLAN - LEVEL 03 SECTOR 02			■				■							■				■
P3.40	PLUMBING ROOF PLAN							■							■				■
MECHANICAL																			
M0.00	UNDERGROUND MECHANICAL PLAN							■			■								
M0.01	UNDERGROUND MECHANICAL NOTES										■								
M1.00	MECHANICAL SCHEDULES AND NOTES			■				■							■				■
M1.01	MECHANICAL SCHEDULES							■							■				■
M1.02	MECHANICAL SCHEDULES							■							■				■
M1.03	MECHANICAL LEGEND AND DETAILS							■							■				■
M2.00	OVERALL MECHANICAL PLAN BASEMENT LEVEL SECTOR 02			■				■							■				■
M2.01	OVERALL MECHANICAL PLAN LEVEL 01			■				■							■				■
M2.02	ENLARGED MECHANICAL PLAN LEVEL 01 SECTOR 01							■							■				■
M2.03	ENLARGED MECHANICAL PLAN LEVEL 01 SECTOR 01							■							■				■
M2.04	ENLARGED MECHANICAL PLAN LEVEL 01 SECTOR 02							■							■				■
M2.05	ENLARGED MECHANICAL PLAN LEVEL 01 SECTOR 02							■							■				■
M2.06	OVERALL MECHANICAL PLAN LEVEL 02			■				■							■				■
M2.07	ENLARGED MECHANICAL PLAN LEVEL 02 SECTOR 01							■							■				■
M2.08	ENLARGED MECHANICAL PLAN LEVEL 02 SECTOR 01							■							■				■
M2.09	ENLARGED MECHANICAL PLAN LEVEL 02 SECTOR 02							■							■				■
M2.10	ENLARGED MECHANICAL PLAN LEVEL 02 SECTOR 02							■							■				■
M2.11	OVERALL MECHANICAL PLAN LEVEL 03			■				■							■				■
M2.12	ENLARGED MECHANICAL PLAN LEVEL 03 SECTOR 01							■							■				■
M2.13	ENLARGED MECHANICAL PLAN LEVEL 03 SECTOR 01							■							■				■
M2.14	ENLARGED MECHANICAL PLAN LEVEL 03 SECTOR 02							■							■				■
M2.15	ENLARGED MECHANICAL PLAN LEVEL 03 SECTOR 02							■							■				■
M2.16	OVERALL MECHANICAL ROOF PLAN			■				■							■				■
M3.00	OVERALL MECHANICAL REFLECTED CEILING PLAN BASEMENT LEVEL SECTOR 02							■							■				■
M3.01	OVERALL MECHANICAL REFLECTED CEILING PLAN LEVEL 01							■							■				■
M3.02	ENLARGED MECHANICAL REFLECTED CEILING PLAN LEVEL 01 SECTOR 01							■							■				■
M3.03	ENLARGED MECHANICAL REFLECTED CEILING PLAN LEVEL 01 SECTOR 01							■							■				■
M3.04	ENLARGED MECHANICAL REFLECTED CEILING PLAN LEVEL 01 SECTOR 02							■							■				■
M3.05	ENLARGED MECHANICAL REFLECTED CEILING PLAN LEVEL 01 SECTOR 02							■							■				■
M3.06	OVERALL MECHANICAL REFLECTED CEILING PLAN LEVEL 02							■							■				■
M3.07	ENLARGED MECHANICAL REFLECTED CEILING PLAN LEVEL 02 SECTOR 01							■							■				■
M3.08	ENLARGED MECHANICAL REFLECTED CEILING PLAN LEVEL 02 SECTOR 01							■							■				■
M3.09	ENLARGED MECHANICAL REFLECTED CEILING PLAN LEVEL 02 SECTOR 02							■							■				■
M3.10	ENLARGED MECHANICAL REFLECTED CEILING PLAN LEVEL 02 SECTOR 02							■							■				■
M3.11	OVERALL MECHANICAL REFLECTED CEILING PLAN LEVEL 03							■							■				■
M3.12	ENLARGED MECHANICAL REFLECTED CEILING PLAN LEVEL 03 SECTOR 01							■							■				■
M3.13	ENLARGED MECHANICAL REFLECTED CEILING PLAN LEVEL 03 SECTOR 01							■							■				■
M3.14	ENLARGED MECHANICAL REFLECTED CEILING PLAN LEVEL 03 SECTOR 02							■							■				■
M3.15	ENLARGED MECHANICAL REFLECTED CEILING PLAN LEVEL 03 SECTOR 02							■							■				■
M4.00	IT ROOM MECHANICAL PLAN							■							■				■
M5.00	MECHANICAL AXONOMETRIC PLAN BASEMENT							■							■				■
M5.01	MECHANICAL AXONOMETRIC PLAN LEVEL 01							■							■				■
M5.02	MECHANICAL AXONOMETRIC PLAN LEVEL 02							■							■				■
M5.03	MECHANICAL AXONOMETRIC PLAN LEVEL 03							■							■				■
M6.00	MECHANICAL ZONING PLAN BASEMENT LEVEL							■							■				■
M6.01	MECHANICAL ZONING PLAN LEVEL 01							■							■				■
M6.02	MECHANICAL ZONING PLAN LEVEL 02							■							■				■
M6.03	MECHANICAL ZONING PLAN LEVEL 03							■							■				■
M7.00	MECHANICAL PIPING PLAN BASEMENT LEVEL																		■
M7.01	MECHANICAL PIPING PLAN LEVEL 01																		■
M7.02	MECHANICAL PIPING PLAN LEVEL 02																		■
M7.03	MECHANICAL PIPING PLAN LEVEL 03																		■
M7.04	MECHANICAL PIPING PLAN ROOF																		■
M8.00	MECHANICAL CONTROLS							■							■				■
M8.01	MECHANICAL CONTROLS							■							■				■

INDEX OF DRAWINGS - OVERALL

SHEET NUMBER	SHEET NAME	01-25-19 - BID PACKAGE 01	02-08-19 - BID PACKAGE 02	02-22-19 - SCHEMATIC DESIGN	03-20-19 - BID PACKAGE 03	04-16-19 - BID PACKAGE 01 - ASI 01	04-16-19 - BID PACKAGE 02 - ASI 01	04-19-19 - DESIGN DEVELOPMENT	04-22-19 - BID PACKAGE 03 - ASI 01	04-30-19 - BID PACKAGE 01 - ASI 02	05-10-19 - BID PACKAGE 04	05-24-19 - BID PACKAGE 02 - ASI 02	05-24-19 - BID PACKAGE 03 - ASI 02	05-24-19 - BID PACKAGE 04 - ASI 01	06-14-19 - 65% CONSTRUCTION DOCUMENTS	06-17-19 - BID PACKAGE 04 - ASI 02	07-12-19 - BID PACKAGE 03 - ASI 03	07-22-19 - BID PACKAGE 04 - ASI 03	07-26-19 - 95% CONSTRUCTION DOCUMENTS
ELECTRICAL																			
E0.00	ELECTRICAL NOTES AND LEGEND			■				■			■								
E0.01	UNDERGROUND ELECTRICAL PLAN			■				■			■					■			
E0.02	UNDERGROUND ELECTRICAL FEEDER PLAN							■			■								
E0.03	UNDERGROUND BRANCH CIRCUIT PLAN BASEMENT LEVEL SECTOR 02							■			■								
E0.04	ELECTRICAL UNDERGROUND BRANCH CIRCUIT LEVEL 01 SECTOR 01							■			■								
E1.00	ELECTRICAL NOTES AND LEGEND							■							■				■
E1.01	POWER PLAN BASEMENT SECTOR 02			■				■							■				■
E1.02	OVERALL POWER PLAN - LEVEL 01			■				■							■				■
E1.03	ENLARGED POWER PLAN LEVEL 01 SECTOR 01							■							■				■
E1.04	ENLARGED POWER PLAN LEVEL 01 SECTOR 01							■							■				■
E1.05	ENLARGED POWER PLAN LEVEL 01 SECTOR 02							■							■				■
E1.06	ENLARGED POWER PLAN LEVEL 01 SECTOR 02							■							■				■
E1.07	OVERALL POWER PLAN - LEVEL 02			■				■							■				■
E1.08	ENLARGED POWER PLAN LEVEL 02 SECTOR 01							■							■				■
E1.09	ENLARGED POWER PLAN LEVEL 02 SECTOR 01							■							■				■
E1.10	ENLARGED POWER PLAN LEVEL 02 SECTOR 02							■							■				■
E1.11	ENLARGED POWER PLAN LEVEL 02 SECTOR 02							■							■				■
E1.12	OVERALL POWER PLAN - LEVEL 03			■				■							■				■
E1.13	ENLARGED POWER PLAN LEVEL 03 SECTOR 01							■							■				■
E1.14	ENLARGED POWER PLAN LEVEL 03 SECTOR 01							■							■				■
E1.15	ENLARGED POWER PLAN LEVEL 03 SECTOR 02							■							■				■
E1.16	ENLARGED POWER PLAN LEVEL 03 SECTOR 02							■							■				■
E1.17	ENLARGED ELECTRICAL ROOMS PLAN							■							■				■
E1.18	ENLARGED ER SIMULATION ELECTRICAL PLAN							■							■				■
E1.19	ENLARGED MED SURG SIMULATION ELECTRICAL PLAN							■							■				■
E1.20	ENLARGED MATERNITY SIMULATION ELECTRICAL PLAN							■							■				■
E1.21	ENLARGED PEDIATRIC SIMULATION ELECTRICAL PLAN							■							■				■
E1.22	ENLARGED SIMULATION & CLINICAL SKILLS ROOMS							■							■				■
E1.23	MECHANICAL POWER PLAN BASEMENT SECTOR 02														■				■
E1.24	ENLARGED MECHANICAL POWER PLAN LEVEL 01 SECTOR 01														■				■
E1.25	ENLARGED MECHANICAL POWER PLAN LEVEL 01 SECTOR 01														■				■
E1.26	ENLARGED MECHANICAL POWER PLAN LEVEL 01 SECTOR 02														■				■
E1.27	ENLARGED MECHANICAL POWER PLAN LEVEL 01 SECTOR 02														■				■
E1.28	ENLARGED MECHANICAL POWER PLAN LEVEL 02 SECTOR 01														■				■
E1.29	ENLARGED MECHANICAL POWER PLAN LEVEL 02 SECTOR 01														■				■
E1.30	ENLARGED MECHANICAL POWER PLAN LEVEL 02 SECTOR 02														■				■
E1.31	ENLARGED MECHANICAL POWER PLAN LEVEL 02 SECTOR 02														■				■
E1.32	ENLARGED MECHANICAL POWER PLAN LEVEL 03 SECTOR 01														■				■
E1.33	ENLARGED MECHANICAL POWER PLAN LEVEL 03 SECTOR 01														■				■
E1.34	ENLARGED MECHANICAL POWER PLAN LEVEL 03 SECTOR 02														■				■
E1.35	ENLARGED MECHANICAL POWER PLAN LEVEL 03 SECTOR 02														■				■
E1.36	OVERALL MECHANICAL POWER PLAN ROOF														■				■
E1.37	SYSTEMS PLAN BASEMENT LEVEL SECTOR 02							■							■				■
E1.38	SYSTEMS PLAN LEVEL 01 SECTOR 01							■							■				■
E1.39	SYSTEMS PLAN LEVEL 01 SECTOR 02							■							■				■
E1.40	SYSTEMS PLAN LEVEL 02 SECTOR 01							■							■				■
E1.41	SYSTEMS PLAN LEVEL 02 SECTOR 02							■							■				■
E1.42	SYSTEMS PLAN LEVEL 03 SECTOR 01							■							■				■
E1.43	SYSTEMS PLAN LEVEL 03 SECTOR 02							■							■				■
E1.44	ENLARGED UPS & IDF ROOMS							■							■				■
E1.45	ENLARGED MDF ROOM							■							■				■
E1.46	FIRE ALARM DETAILS																		■
E1.47	FIRE ALARM PLAN BASEMENT LEVEL SECTOR 02																		■
E1.48	FIRE ALARM LEVEL 01 SECTOR 01																		■
E1.49	FIRE ALARM LEVEL 01 SECTOR 02																		■
E1.50	FIRE ALARM LEVEL 02 SECTOR 01																		■
E1.51	FIRE ALARM LEVEL 02 SECTOR 02																		■
E1.52	FIRE ALARM LEVEL 03 SECTOR 01																		■
E1.53	FIRE ALARM LEVEL 03 SECTOR 02																		■
E2.01	LIGHTING ZONE PLAN - BASEMENT LEVEL							■							■				■
E2.02	LIGHTING PLAN BASEMENT LEVEL SECTOR 02							■							■				■
E2.03	LIGHTING ZONE PLAN - LEVEL 1							■							■				■
E2.04	ENLARGED LIGHTING PLAN LEVEL 01 SECTOR 01							■							■				■
E2.05	ENLARGED LIGHTING PLAN LEVEL 01 SECTOR 01														■				■
E2.06	ENLARGED LIGHTING PLAN LEVEL 01 SECTOR 02							■							■				■
E2.07	ENLARGED LIGHTING PLAN LEVEL 01 SECTOR 02														■				■
E2.08	LIGHTING ZONE PLAN - LEVEL 2							■							■				■
E2.09	ENLARGED LIGHTING PLAN LEVEL 02 SECTOR 01							■							■				■
E2.10	ENLARGED LIGHTING PLAN LEVEL 02 SECTOR 01														■				■
E2.11	ENLARGED LIGHTING PLAN LEVEL 02 SECTOR 02							■							■				■
E2.12	ENLARGED LIGHTING PLAN LEVEL 02 SECTOR 02														■				■
E2.13	LIGHTING ZONE PLAN - LEVEL 3							■							■				■
E2.14	ENLARGED LIGHTING PLAN LEVEL 03 SECTOR 01							■							■				■
E2.15	ENLARGED LIGHTING PLAN LEVEL 03 SECTOR 01														■				■
E2.16	ENLARGED LIGHTING PLAN LEVEL 03 SECTOR 02							■							■				■
E2.17	ENLARGED LIGHTING PLAN LEVEL 03 SECTOR 02														■				■
E2.18	ENLARGED LIGHTING ZONES							■							■				■
E2.19	ENLARGED LIGHTING ZONES							■							■				■
E2.20	SITE LIGHTING																		■
E3.00	ELECTRICAL SCHEDULES AND RISER														■				■
E3.01	PANEL SCHEDULES														■				■
E3.02	PANEL SCHEDULES														■				■
E3.03	PANEL SCHEDULES																		■
E3.04	PANEL SCHEDULES																		■
E3.05	PANEL SCHEDULES																		■
E4.00	ELECTRICAL DETAILS																		■
E5.01	NEUROANATOMY LAB AND BASEMENT ELEVATIONS																		■
E5.02	GROSS ANATOMY LAB ELEVATIONS																		■
E5.03	LEVEL 1 ELEVATIONS																		■
E5.04	LEVEL 2 ELEVATIONS																		■
E5.05	LEVEL 3 ELEVATIONS																		■
FIRE PROTECTION																			
FP1.00	FIRE PROTECTION NOTES AND DETAILS			■				■							■				■
FP1.01	FIRE PROTECTION RISER DETAILS			■				■							■				■
FP1.02	FIRE PROTECTION STANDPIPE DETAILS			■				■							■				■
FP2.00	FIRE PROTECTION PLAN - BASEMENT			■				■							■				■
FP2.01	FIRE PROTECTION - UNDERGROUND PLAN										■					■			
FP3.00	FIRE PROTECTION PLAN - LEVEL 1			■				■							■				■
FP4.00	FIRE PROTECTION PLAN - LEVEL 2			■				■							■				■
FP5.00	FIRE PROTECTION PLAN - LEVEL 3			■				■							■				■
FP6.00	FIRE PROTECTION PLAN – ROOF LEVEL							■							■				■
EQUIPMENT																			
EQ1.02	EQUIPMENT PLAN BASEMENT LEVEL SECTOR 02			■				■							■				■
EQ1.11	EQUIPMENT PLAN LEVEL 01 SECTOR 01			■				■							■				■
EQ1.12	EQUIPMENT PLAN LEVEL 01 SECTOR 02							■							■				■
EQ1.21	EQUIPMENT PLAN LEVEL 02 SECTOR 01							■							■				■
EQ1.22	EQUIPMENT PLAN LEVEL 02 SECTOR 02							■							■				■
EQ1.31	EQUIPMENT PLAN LEVEL 03 SECTOR 01							■							■				■
EQ1.32	EQUIPMENT PLAN LEVEL 03 SECTOR 02							■							■				■
EQ2.00	EQUIPMENT - CLINICAL EXAM INTERIOR ELEVATIONS							■							■				■
Grand total: 389																			

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PROFESSIONAL SEAL:

CONSULTANT LOGO:

CLIENT:

COLLEGE OF
Osteopathic Medicine
AT THE CHEROKEE NATION

TAHLEQUAH, OKLAHOMA

KEY PLAN:

PROJECT PHASE:
95% CONSTRUCTION DOCUMENTS

REVISIONS

#	DATE	DESCRIPTION

DATE: 07-26-19

JOB NUMBER: 17-13

SHEET NUMBER: G0.000

OVERALL SHEET INDEX

SITE WORK CONSTRUCTION DOCUMENTS FOR

COLLEGE OF OSTEOPATHIC MEDICINE AT THE CHEROKEE NATION

SUMMARY OF WORK

1. The Work to be performed consists of providing all labor, materials, equipment and services necessary for the complete construction and start up of the COLLEGE OF OSTEOPATHIC MEDICINE AT THE CHEROKEE NATION as shown on the Drawings and herein specified in accordance with the Contract Documents.

CONTRACT COSTS

1. All costs for labor, materials, equipment, and services necessary for complete construction and start-up of the Work as shown on the Drawings and specified herein shall be included in the contract price unless otherwise indicated in the Contract Documents.
2. Work shown on the Drawings or required by the Specifications but not specifically listed in the Summary of Quantities shall be considered incidental construction, and the cost of such work shall be included in the Unit Prices Bid.
3. CONTRACTOR shall make their own estimate of the labor, materials, equipment, and services necessary to complete the work and shall visit the site and fully acquaint himself of the existing conditions prior to commencing construction. CONTRACTOR shall notify ENGINEER of any errors in the ENGINEER's construction quantities; or any condition at the site that may affect the construction of the work as shown on the Drawings.

GENERAL REQUIREMENTS

1. Drawings, Specifications, or other documents (or copies of any thereof) prepared by or bearing the seal of Cardinal Engineering, Inc., including electronic media editions, shall not be reused on extensions of the Project or any other project without written consent of OWNER and Cardinal Engineering, Inc. and specific written verification or adaptation by Cardinal Engineering, Inc.
2. Survey information shown on the drawings were provided by Lemke Land Surveying, 3226 Bart Conner Drive, Norman, OK, 73072 Phone (405) 366-8541, CA #2054..

APPLICABLE CODES AND SPECIFICATIONS

1. All references to codes, specifications, and standards referred to in the Specification and on the Drawings shall mean, and are intended to be, the latest edition, amendment, and/or revision of such reference standard in effect as of the date of these Contract Documents.

PROCEDURAL REQUIREMENTS

1. CONTRACTOR shall make the coordination of the operations of all trades, subcontractors, and material suppliers engaged upon or in connection with the Work. Every effort shall be made to assure a harmonious, cooperative attitude on the part of all concerned. CONTRACTOR shall guarantee to each of his foremen and subcontractors the proper dimensions they may require for the fitting of their work to adjoining work. All fitting and adjusting necessary to make all the parts of the work join together properly shall be made.
2. Cooperation with utility and government officials and inspectors shall occur at all times. If any official or inspector deems special inspection is necessary, assistance and facilities that will expedite his inspection shall be provided.

TEMPORARY FACILITIES AND CONTROLS

1. Arrange for and provide temporary facilities and controls as specified herein and as required for the proper and expeditious prosecution of the work. Pay all costs, except as otherwise specified, until final acceptance of the work unless the OWNER makes arrangements for the use of completed portions of the work after substantial completion in accordance with the provisions of the General Conditions.
2. Make all temporary connections to utilities and services in locations acceptable to the OWNER, ENGINEER, and local authorities having jurisdiction thereof; furnish all necessary labor and materials, and make all installations in a manner subject to the acceptance of such authorities and the ENGINEER; maintain such connections; remove the temporary installation and connections when no longer required; restore the services and sources of supply to proper operating condition.
3. Pay all costs for temporary electrical power and temporary water.
4. Water necessary for construction purposes shall be provided. All temporary connections shall be made to existing mains. A temporary meter shall be provided. Arrangements and payment for the temporary water service, including cost of installation, maintenance thereof, and water used shall be made. At the completion of the construction work, all temporary water service equipment and piping shall be removed.
5. Chemical toilets for the use of all construction personnel shall be provided at a location within the limits of the Site. Chemical toilets shall be maintained in a sanitary condition.
6. From the commencement to the completion of the work, keep all parts of the site and the project free from accumulation of water, and supply, maintain, and operate all necessary pumping and bailing equipment.
7. Remove snow and ice as necessary for the protection and prosecution of the work, and protect the work against weather damage.

PRODUCT REQUIREMENTS

1. Materials, products, and equipment shall be properly containerized, packaged, boxed, and protected to prevent damage during transportation and handling.
2. Provide suitable temporary weather tight storage facilities as may be required for materials that will be damaged by storage in the open. Any off-site storage space used is the responsibility of the CONTRACTOR. Store and protect materials delivered at the site from damage. Do not use damaged material on the work.
3. Manufactured articles, materials, and equipment shall be applied, installed, connected, erected, used, cleaned, and conditioned as directed by the respective manufacturers, unless otherwise specified.
4. References to approved equal or similar terms mean that approval of the ENGINEER is required.
5. Whenever the Contract Documents require that a product be in accordance with Federal specification, ASTM designation, ANSI specification, AWWA specification, or other association standard, the CONTRACTOR shall present an affidavit from the manufacturer certifying that the product complies therewith. Where requested or specified, submit supporting test data to substantiate compliance.

EXECUTION REQUIREMENTS

1. CONTRACTOR shall be responsible for properly laying out the work, and for lines and measurements for the work executed under the Contract Documents. Verify the figures shown on the Drawings before ordering any materials and laying out the work, and report errors or inaccuracies in writing to the ENGINEER before commencing work. The ENGINEER or his representative will in no case assume the responsibility for laying out the work.
2. OWNER has or will perform a survey of the site, stake the property limits, and provide a reference benchmark elevation. CONTRACTOR shall be responsible for any additional offset staking or layout survey required to locate improvements and control grade of improvements. Be responsible for the proper location and level of the work and for the maintenance of reference lines and benchmarks. Any re-staking requested by the CONTRACTOR shall be done at his expense.
3. Existing survey points other than those specifically mentioned herein shall not be considered as acceptable control points unless approved by the ENGINEER. If approval is secured, CONTRACTOR remains responsible for maintaining them and for their accuracy. Be responsible for preserving all existing iron or metal, and all concrete survey points or monuments for the construction period.

STORM WATER POLLUTION PREVENTION PLAN

1. Construction activities that result in land disturbance of equal to or greater than one (1) acre, or less than one (1) acre, if they are part of a larger common plan of development or sale that totals at least one (1) acre must also obtain a permit for Storm Water Discharges from Construction Activities. This means that land disturbing of one (1) acre or more must permit with EPA.
2. A copy of the erosion control site plan must be on site at all times and made available to the inspector upon request.
3. The contractor shall be responsible for the repair or replacement of all erosion control devices damaged due to construction.
4. A Storm water Pollution Prevention Plan (SWPPP) has been prepared for the WORK and a Notice of Intent (NOI) has been submitted by OWNER. CONTRACTOR shall implement the SWPPP, and construct, inspect, and maintain the erosion controls to prevent runoff of silt and sediment from the site. A copy of the SWPPP shall be kept at the site at all times and be made available to inspectors upon request. Inspections reports shall be maintained in the SWPPP and the SWPPP shall be updated when necessary.
5. The erosion control plan, Notice of Intent (NOI), and the Storm Water Pollution Prevention Plan (SWPPP), as well as any other applicable state or municipal permits shall be kept on site by the construction superintendent at all times. Said items shall be made available to state and municipal authorities upon request.
6. Inspect disturbed areas of the construction site that have not been finally stabilized, areas used for storage of materials that are exposed to precipitation, structural control measures, and locations where vehicles enter or exit the site, at least once every fourteen (14) calendar days and within 24 hours of the end of a storm event of 0.25 inches or greater.
7. All erosion and sediment control measures and other protective measures identified in this SWPPP must be maintained in effective operating condition. If site inspections identify erosion controls that are not operating effectively, maintenance shall be performed before the next anticipated storm event, or as necessary to maintain the continued effectiveness of storm water controls. If maintenance prior to the next anticipated storm event is impracticable, maintenance must be scheduled and accomplished as soon as practicable.
8. If sediment escapes the construction site, off-site accumulations of sediment shall be removed at a frequency sufficient to minimize offsite impacts (e.g., fugitive sediment in street could be washed into storm sewers by the next rain and/or pose a safety hazard to users of public streets).
9. Sediment shall be removed from sediment traps or sedimentation ponds when the design capacity has been reduced by 50%.
10. Litter, construction debris, and construction chemicals exposed to storm water shall be prevented from becoming a pollutant source for storm water discharges (e.g., screening outfalls, picked up daily).

EXISTING UTILITIES AND STRUCTURES

1. CONTRACTOR shall contact OKIE (1-800-522-6543) prior to construction for locating existing utilities.
2. The underground utilities shown have been located from field survey surface information and existing drawings. ENGINEER and Surveyor make no guarantee that the underground utilities shown comprise all such utilities in the area, either in service or abandoned. The underground utilities are located as accurately as possible from information available; however, ENGINEER and Surveyor further do not guarantee that the underground utilities shown are in the exact location indicated either vertically or horizontally. ENGINEER and Surveyor have not physically located the underground utilities by probing, excavating, hydro-vac, or by any other means.
3. Prior to construction, CONTRACTOR shall notify all utility companies and governmental agencies who may have utility lines on or about the premises or who may be affected by the construction. Notice shall be given no less than twenty-four hours prior to any work that may interfere with a utility. CONTRACTOR shall also coordinate the construction activities with the utility companies to ensure compliance with the project schedule.
4. All existing structures, improvement and utilities designated to remain shall be adequately protected from damage that might otherwise occur due to construction operations. Where construction comes in close proximity to existing structures, utilities or appurtenances, or if it becomes necessary to move services, poles, guy wires, pipe lines or other obstructions, CONTRACTOR shall notify and cooperate with the owner of the utility, structure, or appurtenance. The utility lines and other existing structures shown on the plans are for information only and are not guaranteed to be complete or accurate as to location and/or depth. CONTRACTOR shall be liable for damage to any utilities resulting from the CONTRACTOR's operations. During construction, all fire hydrants, valve boxes, fire or police call boxes and other existing utility controls shall be left intact, unobstructed and accessible unless noted on the plan.
5. Any existing valve boxes, meters, fire hydrants, manholes, and other public utilities shall be rebuilt to finished grades according to specifications. All valves, manhole lids, and sewer clean-outs located in paved areas, shall be rated for H-20 traffic loading. Coordinate the work with the appropriate utility department.

PROTECTION AND MAINTENANCE

1. Perform all special construction operations and take all precautions necessary to adequately protect the materials and work performed, the property and landscape of OWNER and others, existing buildings and improvements, existing utilities, workers and employees, and the public in general.
2. Where trees, plants, shrubbery, and other vegetation are adjacent to the line of the work and are designated not to be destroyed or removed and replaced, CONTRACTOR shall protect these items by substantial wooden boxes and guards and shall not permit machinery or employees to scrape, tear the limbs from or damage, or attach guy cables to them. Hand excavation may be required if machinery could damage trees, plants, shrubbery, and other vegetation designated to be left undisturbed. CONTRACTOR shall be responsible for all damages to such trees, plants, shrubbery, and other vegetation unless specific provisions are made for their removal or abandonment on the Drawings.
3. Existing fences that require cutting for gates or other reasons shall be adequately braced to prevent slacking of the fence before it is cut. Livestock may be present in all fenced areas; therefore, points of entrance shall be kept closed at all times and the CONTRACTOR shall be responsible for the containment of livestock, their safety, and the safety of the public. All fencing shall be done in a workmanlike manner with standard construction practices as per the standard details provided. Gates installed shall be chained and locked closed. Locks shall be keyed alike. Provide a set of keys to the OWNER.
4. The sides of all excavations shall be sufficiently sheeted and shored to prevent slides, cave-ins, settlement or movement of the banks and to maintain the excavation clear of all obstructions that will, in any way, hinder or delay the progress of the work. All sheeting, shoring and bracing shall have sufficient strength and rigidity to withstand the pressure exerted and maintain the sides of the excavation properly in place and protect all persons, including workmen, and all property from injury or damage. The removal of sheeting, shoring and bracing shall be done in such manner as to not endanger new or existing structures, public or private property, and to avoid cave-ins or slides of the banks. Sheeting, shoring, or bracing shall not be left in place.
5. Shore up and protect any building or other structure which may be endangered during the work and restore all buildings, culverts, fences, walls, or other properties disturbed during the work to a condition equal to that existing before operation. CONTRACTOR shall be responsible for any injuries to persons and for damages to existing buildings or other structures affected by the work, and OWNER shall not be liable therefore.
6. Immediately remove all surface or seepage water from sewers, drains, ditches, and other sources that may accumulate water during the excavation and construction work by pumping, bailing, or draining. CONTRACTOR shall have available at all times sufficient equipment in proper working order for doing the work herein required. All water removed from excavations shall be disposed of in an approved manner, so as to not create unsanitary conditions, nor to cause injury to persons or property or damage to the work in progress, nor to interfere unduly with the use of streets, private driveways or entrances.
7. When existing storm sewers, drains, or ditches are blocked, cut, opened, or removed in the course of the work, CONTRACTOR shall provide and maintain temporary outlets and connections until permanent facilities have been restored. Provide and maintain any pumps, diversions, piping, containers, and other facilities required for this purpose.
8. During construction and until such time as vegetation is reestablished, keep exposed dirt areas within the limits of construction and in stockpiles areas damp to prevent blowing. CONTRACTOR shall be responsible for providing and maintaining adequate erosion protection during construction and following construction until such time as proper vegetation is reestablished.
9. The premises and the job site shall be maintained in a reasonably neat and orderly condition and kept free from accumulations of waste materials and rubbish during the entire construction period. Remove crates, cartons, and flammable waste materials or trash from the work areas at the end of each working day.
10. Upon completion of the work and before final acceptance and final payment shall be made, the CONTRACTOR shall completely clean and remove from the site of the work all equipment, construction materials, surplus and discarded materials, temporary structures and debris of every kind. CONTRACTOR shall leave the site of the work in a neat and orderly condition equal to that which originally existed, or as called for in the Contract documents. Surplus and waste materials removed from the site of the work shall be disposed of at locations satisfactory to the Engineer, and at the CONTRACTOR'S sole cost.
11. All terraces, levees, and watercourses shall be restored to former condition to the satisfaction of OWNER so that they shall function as originally intended.
12. Fences disturbed by construction shall be restored to original condition and to the satisfaction of OWNER.
13. Public and private streets, drives, and parking lots shall be restored to their original condition.
14. When and where any damage or injury is done to public or private property on the part of the CONTRACTOR, it shall restore or have restored at its own cost and expense such property to a condition equal (or improved) to that existing before such damage was done by repairing, rebuilding or otherwise restoring as may be directed, or it shall make good such damage or injury in a manner acceptable to the property owner or the Engineer. Replacement of previously constructed items, such as curb, gutter, sidewalks, driveways, paving, etc., shall conform to the specifications for new construction, unless directed otherwise by the OWNER.

EXCAVATION AND TRENCH SAFETY SYSTEMS

1. CONTRACTOR shall be responsible for complying with State laws and Federal regulations relating to excavation and trench safety, including those which may be enacted during the performance under this Contract. CONTRACTOR is advised that Federal Regulations 29 C.F.R. 1926.650-1926.652 have been, in their most recent version as amended, in effect since January 2, 1990. CONTRACTOR shall fully comply with the U.S. Department of Labor Occupational Safety and Health Administration (OSHA) regulations pertaining to excavations, trenching, and shoring and shall provide and familiarize its employees involved in excavation and trenching with the provisions in OSHA Pamphlet Number 2226, Excavating and Trenching Operations.

TRAFFIC CONTROL

1. A Work Zone Permit must be obtained from the CITY at least two (2) working days prior to the start of work and/or placing or removing any barricades or modifying existing traffic control devices.
2. CONTRACTOR shall be responsible for erecting and maintaining barricades and other traffic warning devices as necessary around the perimeter of construction and adjacent to any open trenches. Provide and maintain adequate detours around the work under construction. Provide sufficient lights, warning signs, and watchmen for the safety of the public.
3. Any temporary street closure shall be coordinated with and approved by OWNER. CONTRACTOR shall establish all detour routes while streets are closed during construction. CONTRACTOR shall notify Fire, Police, and EMSA headquarters when any street is temporarily closed.
4. CONTRACTOR is responsible for the prompt replacement and/or repair of all traffic control devices, signs, and appurtenances damaged or disturbed due to construction. Any existing traffic signals, signal loops, conduits, cables, signs, and other traffic control devices affected by the work shall be reset or replaced according to specifications. Coordinate the work with the traffic department.

ADA COMPLIANCE

1. CONTRACTOR is responsible for ensuring all sidewalks, curb ramps, ramps, stairs, accessible parking spaces, and building access routes comply with the current Americans with Disability Act (ADA) Standards prior to construction. Any errors found shall be brought the ENGINEER'S attention for resolution.

DEFECTIVE AND UNAUTHORIZED WORK

1. All work that has been rejected or condemned shall be repaired or if it can not be satisfactorily repaired, it shall be removed and replaced at the CONTRACTOR's expense. Defective materials shall be removed immediately from the site of the work.
2. Work done without lines and grades having been given, work done beyond the lines or not in conformity with grades shown on the plans or as given, work done with out proper inspection, or any extra or unclassified work done without written authority and prior written agreement as to prices, will be done at the CONTRACTOR's risk and will be considered unauthorized, and at the option of the ENGINEER, may not be measured an paid for and may be ordered to be removed at the CONTRACTOR's expense.
3. Upon failure of the CONTRACTOR to satisfactorily repair or to remove and replace, if so directed, and rejected, unauthorized, or condemned work or materials immediately after receiving notice from the ENGINEER, the ENGINEER shall, after giving written notice to the CONTRACTOR, have the authority to cause defective work to be remedied or removed and replaced, or to cause unauthorized work to be removed and replace, and to deduct the cost thereof from any compensation due or to become due the CONTRACTOR. If the ENGINEER and OWNER deem it not expedient to correct the work damaged or done not in accordance with the Contract, and equable deduction from the Contract Price shall be made thereof.

CIVIL SHEET LIST

NUMBER	TITLE
BID PACKAGE 01	
C1-101	EXISTING CONDITIONS AND SURVEY CONTROL
C2-101	DEMOLITION PLAN
C5-701	EROSION CONTROL PLAN
C5-702	EROSION CONTROL DETAILS AND NOTES
C7-001	WATER TITLE SHEET
C7-201	WATER PLAN AND PROFILE
C7-202	WATER PLAN AND PROFILE
C7-203	WATER PLAN AND PROFILE
C7-501	WATER DETAILS
BID PACKAGE 02	
C5-101	GRADING PLAN
C5-102	GRADING PLAN
C5-103	EARTHWORK VOLUME STUDY
C5-104	GRADING PLAN
C5-105	GRADING PLAN
BID PACKAGE 04	
C4-101	UTILITY PLAN
C6-201	STORM SEWER PLAN AND PROFILE
C6-202	STORM SEWER PLAN AND PROFILE
C6-203	STORM SEWER PLAN AND PROFILE
C6-204	FOOTER DRAIN PLAN AND PROFILE
C6-205	FOOTER DRAIN PLAN AND PROFILE
C6-501	STORM SEWER DETAILS
C6-502	STORM SEWER DETAILS
C6-503	STORM SEWER DETAILS
C6-504	STORM SEWER DETAILS

BID PACKAGE 04 CONTINUED	
C6-505	STORM SEWER DETAILS
C6-801	EXISTING HYDROLOGY
C6-802	PROPOSED HYDROLOGY
C8-201	SEWER PLAN AND PROFILE
C8-501	LIFT STATION DETAILS
BID PACKAGE ??	
C0-001	CIVIL TITLE SHEET
C3-101	SITE PLAN
C3-501	SITE DETAILS
C3-502	CONCRETE JOINT DETAILS
C3-503	CONCRETE JOINT LAYOUT DETAILS
C3-504	SITE FENCING DETAILS

LINE LEGEND

- BARBED WIRE FENCE
- CHAINLINK FENCE
- PIPERAIL FENCE
- STOCKADE FENCE
- SECURITY FENCE
- E — ELECTRIC UNDERGROUND
- E — OVERHEAD ELECTRIC
- G — GAS LINE
- SS — SANITARY SEWER
- STORM DRAIN PIPE (SURVEYED)
- SD — STORM DRAIN CENTERLINE
- W — WATER
- NW — NONPOTABLE WATER
- CURB AND GUTTER
- SURFACE DRAINAGE FLOWLINE
- FO — FIBER OPTIC
- T — TELEPHONE (AERIAL)
- T — TELEPHONE (BURIED)
- TV — TELEVISION (AERIAL)
- TV — TELEVISION (BURIED)
- CENTERLINE
- EASEMENTS
- PROPERTY LINE
- RIGHT OF WAY
- EXISTING BUILDINGS
- BUILDING SETBACK
- 1232 — EX 1 FT CONTOUR
- 1235 — EX 5 FT CONTOUR
- 1232 — FG 1 FT CONTOUR
- 1235 — FG 5 FT CONTOUR
- PROJECT BOUNDARY
- DEMOLITION LINE

SYMBOL LEGEND

- AC — AIR CONDITIONER UNIT
- FIRE HYDRANT
- G — GAS METER
- GAS VALVE
- GAS VENT
- TRA — GROUND TRANSFORMER
- GUARD POST
- LIGHT POLE
- D — STORM DRAIN MANHOLE
- S — SANITARY SEWER MANHOLE
- PROPERTY CORNER FOUND
- PROPERTY CORNER SET
- CO — SANITARY SEWER CLEANOUT
- COMMERCIAL SIGN
- SIGN
- SPRINKLER HEAD
- SPRINKLER VALVE
- T — TELEPHONE RISER
- TRAFFIC/ELECTRIC PULL BOX
- WATER METER
- WV — WATER VALVE BOX
- TC=1121.63 — TOP OF CURB SPOT ELEVATION
- G=1121.13 — GUTTER SPOT ELEVATION
- X 1123.5 — SPOT ELEVATION

HARDSCAPE / LANDSCAPE PATTERNS

- CONCRETE SIDEWALKS
- LIGHT DUTY ASPHALT PAVING
- HEAVY DUTY ASPHALT PAVING
- LIGHT DUTY CONCRETE PAVING
- HEAVY DUTY CONCRETE PAVING
- REINFORCED HEAVY DUTY CONCRETE PAVING
- SODDING / SEEDING / VEGETATIVE COVER

ABBREVIATIONS

@	AT
AFF	ABOVE FINISHED FLOOR
AGRD	ADJACENT GRADE
AHJ	AUTHORITY HAVING JURISDICTION
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL
ASS'Y	ASSEMBLY
BFF	BELOW FINISHED FLOOR
BLDG	BUILDING
CIP	CAST IN PLACE
CL	CENTERLINE
CM	CONSTRUCTION MANAGER
CNTR	CENTER
CONC	CONCRETE
CONST	CONSTRUCT
CONT	CONTINUOUS
CONTR	CONTRACTOR
COORD	COORDINATE
DIA	DIAMETER
DS	DOWN SPOUT
DTL	DETAIL
DWG(S)	DRAWINGS
E	EAST
E	EASTING
EG	EXISTING GRADE
EGCL	EXISTING GRADE CENTER LINE
ELEC	ELECTRICAL
ELEV	ELEVATION
EJ	EXPANSION JOINT
EQ	EQUAL
ETR	EXISTING TO REMAIN
EX	EXISTING
EXHD	EXTRA HEAVY DUTY
FD	FLOOR DRAIN
FF	FINISHED FLOOR
FG	FINISHED GRADE
FGCL	FINISHED GRADE CENTER LINE
FL	FLOWLINE
FOC	FACE OF CONCRETE
FT	FOOT/FEET
FTNG	FOOTING
FV	FIELD VERIFY
GA	GAUGE
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GU	GUTTER
HD	HEAVY DUTY
HORIZ	HORIZONTAL
HT	HEIGHT
IN	INCH
INFO	INFORMATION
ID	INSIDE DIAMETER
IFGC	INTERNATIONAL FUEL GAS CODE
IPC	INTERNATIONAL PLUMBING CODE
JT	JOINT
LD	LIGHT DUTY
LF	LINEAL FEET
MH	MANHOLE
MAX	MAXIMUM
MECH	MECHANICAL
MIN	MINIMUM
MISC	MISCELLANEOUS
N/A	NOT APPLICABLE
OD	OUTSIDE DIAMETER
MTCH	MATCH
MEP	MECHANICAL / ELECTRICAL / PLUMBING
N	NORTH
N	NORTHING
NO.	NUMBER
OC	ON CENTER
ODEQ	OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
ODOT	OKLAHOMA DEPARTMENT OF TRANSPORTATION
OWRB	OKLAHOMA WATER RESOURCES BOARD
OZ	OUNCE
PC	PORTLAND CEMENT
PC	PRE-CAST
PC	POINT OF CURVATURE
PLBG	PLUMBING
POC	POINT OF CONNECTION
PRC	POINT OF REVERSE CURVATURE
PT	POINT OF TANGENCY
PVI	POINT OF VERTICAL INTERSECTION
QTY	QUANTITY
R	RADIUS
RE:	REFERENCE
REINF	REINFORCED
REQ'D	REQUIRED
REV	REVISION
S	SOUTH
SAN	SANITARY
SCHED	SCHEDULE
SECT	SECTION
SF	SQUARE FEET
SHT	SHEET
SPEC	SPECIFICATION
SQ	SQUARE
STRUC	STRUCTURAL
STD	STANDARD
SW	SIDEWALK
SY	SQUARE YARD
TC	TOP OF CURB
TEMP	TEMPORARY
TOC	TOP OF CONCRETE
TOE	TOE OF SLOPE
TOP	TOP OF SLOPE
TOW	TOE OF WALL
TPW	TOP OF WALL
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
W	WEST
W/	WITH
WT	WEIGHT

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COREY W. LIPPS 21291 REGISTERED ENGINEER

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CLIENT:
SEAL OF THE CHEROKEE NATION SEPT. 6, 1839

COLLEGE OF Osteopathic Medicine AT THE CHEROKEE NATION
TAHLEQUAH, OK

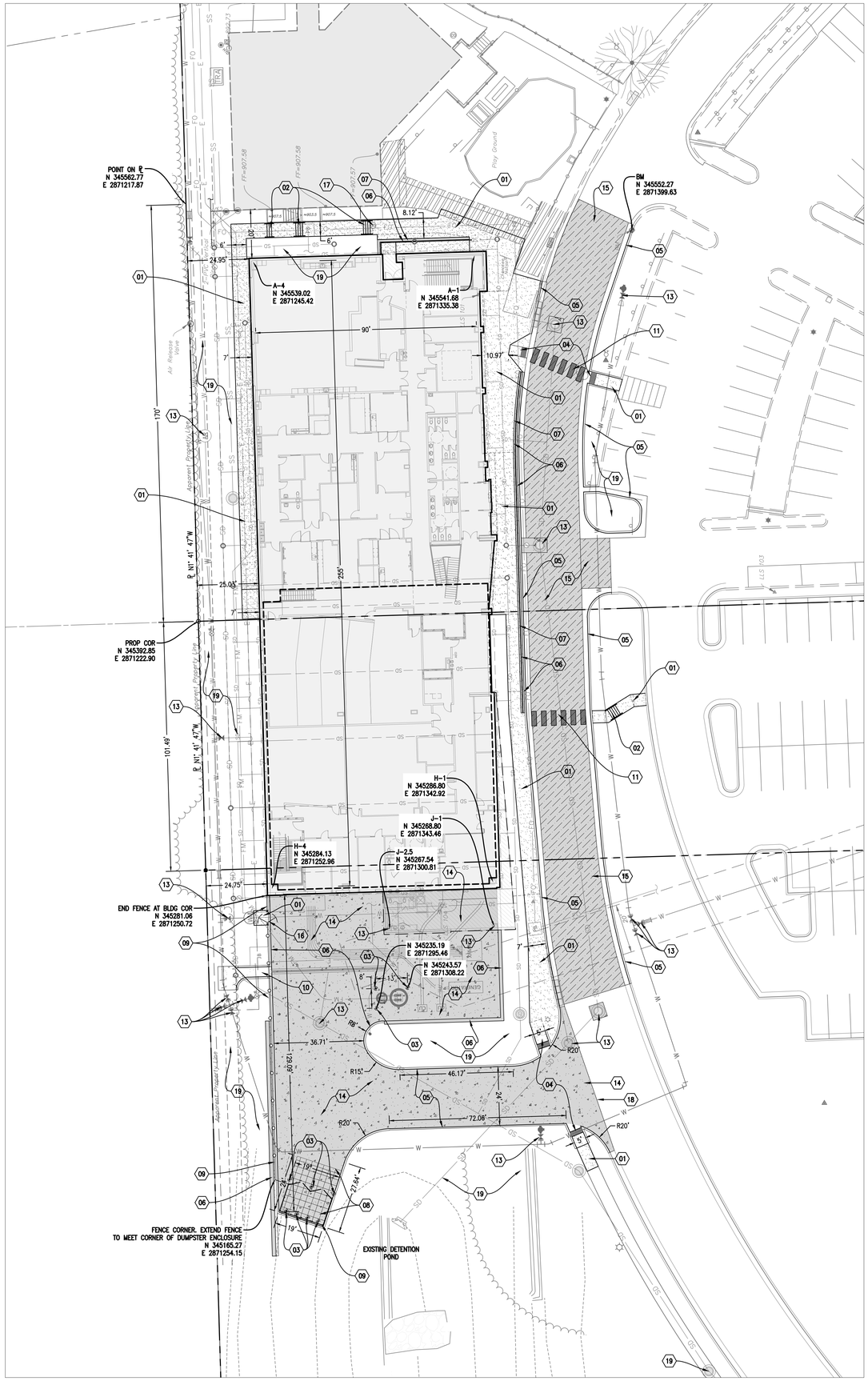
KEY PLAN:

PROJECT PHASE:
95% CONSTRUCTION DRAWINGS

REVISIONS		
#	DATE	DESCRIPTION

DATE: 07-26-19
JOB NUMBER: 17-13
SHEET NUMBER: C0-001

CIVIL TITLE SHEET



SITE PLAN KEYNOTES

NO.	DESCRIPTION
1	CONSTRUCT CONCRETE SIDEWALK PER DETAIL 02 – SIDEWALKS, SHEET C3-501 – SITE DETAILS.
2	CONSTRUCT CONCRETE STAIRS WITH HANDRAILS PER DETAIL 10 – EXTERIOR STAIRS AND HANDRAIL, SHEET C3-501 – SITE DETAILS.
3	CONSTRUCT BOLLARD PER DETAIL 06 – BOLLARD DETAIL, SHEET C3-501 – SITE DETAILS.
4	CONSTRUCT ADA COMPLIANT CURB RAMP WITH 2-FT WIDE TACTILE WARNING DOME STRIP.
5	CONSTRUCT 6-IN BARRIER CURB (NO 86-247). SEE DETAIL 03 – CURB AND GUTTER, SHEET C3-501 – SITE DETAILS.
6	CONSTRUCT CONCRETE RETAINING WALL. REFER TO STRUCTURAL DRAWINGS. SEE DTL A1, SHEET S6.01
7	SEE ARCHITECTURAL DRAWINGS FOR HAND RAIL DETAILS ALONG RETAINING WALL.
8	CONSTRUCT DUMPSTER PAD PAVING. SEE DETAIL 04 – DUMPSTER PAD PC CONCRETE PAVING, SHEET C3-501 – SITE DETAILS.
9	CONSTRUCT 8-FT TALL TREX SECLUSIONS FENCE. SEE DETAIL 01 – TREX SECLUSIONS FENCING, SHEET C3-504 – SITE FENCING DETAILS.
10	INSTALL CONCRETE FLUME. SEE DTL 07 – FLUMES SHEET C3-501 – SITE DETAILS.
11	INSTALL CROSSWALK STRIPING WITH 2-FT X 4-FT WHITE BARS EQUALLY SPACED 2-FT APART FROM EDGE TO EDGE.
12	CONSTRUCT DUMPSTER ENCLOSURE USING 8-FT TALL TREX SECLUSIONS FENCE. SEE DETAIL 01 – TREX SECLUSIONS FENCING, SHEET C3-504 – SITE FENCING DETAILS.
13	INSTALL CONCRETE COLLAR PER DETAIL 08 – MANHOLE VALVE CLEANOUT ISO. DTL, SHEET C3-501 – SITE DETAILS.
14	CONSTRUCT HEAVY DUTY CONCRETE PAVING PER DETAIL 01 – HEAVY DUTY PC CONCRETE PAVING, SHEET C3-501 – SITE DETAILS. PROVIDE JOINTS PER DETAILS AND NOTES ON SHEET C3-502 – CONCRETE JOINT DETAILS. SUBMIT JOINT LAYOUT PLAN FOR REVIEW AND APPROVAL PRIOR TO CONCRETE POUR.
15	CONSTRUCT HEAVY DUTY ASPHALT PAVING PER DETAIL 09 – HEAVY DUTY ASPHALT PAVING, SHEET C3-501 – SITE DETAILS.
16	INSTALL SINGLE GATE.
17	ADJUST CLEAN-OUT TO GRADE
18	PROVIDE THICKENED CONCRETE EDGE PER DETAIL 05 – THICKENED CONCRETE EDGE, SHEET C3-501 – SITE DETAILS.
19	ALL DISTURBED AREAS SHALL BE REVEGETATED WITH BERMUDA GRASS SOD. PROVIDE ADEQUATE WATER, FERTILIZER, AND MOWING UNTIL ACCEPTABLE GROWTH IS ESTABLISHED, BUT NO LESS THAN 30 DAYS AFTER SUBSTANTIAL COMPLETION.

HARDSCAPE / LANDSCAPE PATTERNS

- CONCRETE SIDEWALKS
- HEAVY DUTY CONCRETE PAVING
- REINFORCED HEAVY DUTY CONCRETE PAVING
- HEAVY DUTY ASPHALT PAVING

0' 20' 40' 80'

SCALE: 1" = 20'

UTILITY WARNING:
THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM RECORD DOCUMENTS OR FIELD LOCATIONS BY THE OPERATOR. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH THE SURVEYOR DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM THE INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.

UTILITY ELEVATIONS AND SIZES MAY HAVE BEEN MEASURED UNDER ADVERSE FIELD CONDITIONS. UPON EXPOSING THE UTILITY, ELEVATIONS AND LINE SIZES SHOULD BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHOULD VERIFY CRITICAL ELEVATIONS USING THE BENCHMARK PROVIDED BY THE SURVEYOR OR ENGINEER. ANY DISCREPANCIES SHOULD BE IMMEDIATELY BROUGHT TO THE ENGINEER'S AND SURVEYOR'S ATTENTION.

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COREY W. LIPPS 21291
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CLIENT:

COLLEGE OF Osteopathic Medicine
AT THE CHEROKEE NATION
TAHLEQUAH, OK

KEY PLAN:

PROJECT PHASE:
95% CONSTRUCTION DRAWINGS

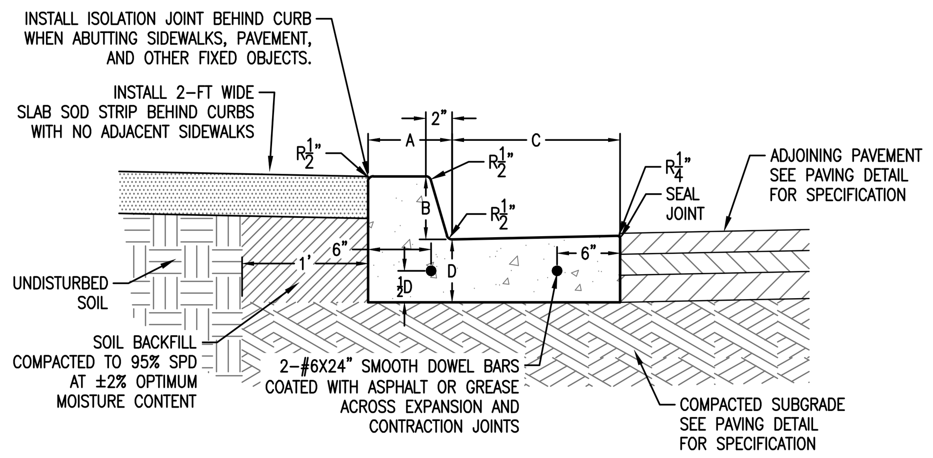
REVISIONS

#	DATE	DESCRIPTION

DATE:	JOB NUMBER:
07-26-19	17-13

SHEET NUMBER:
C3-101

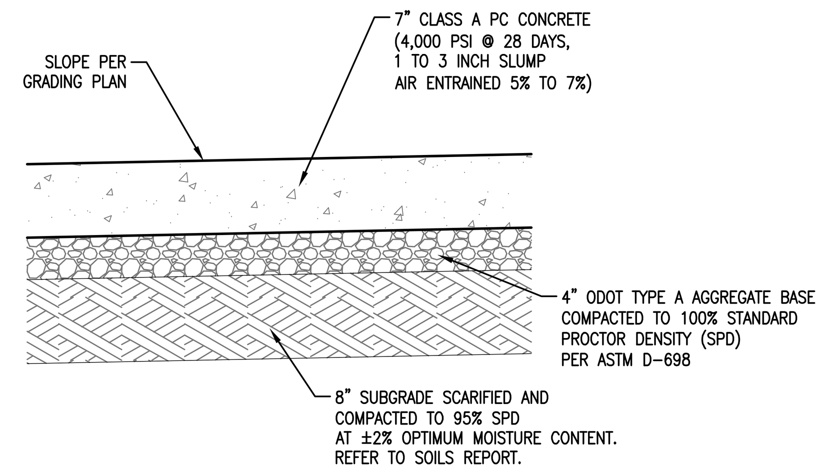
SITE PLAN



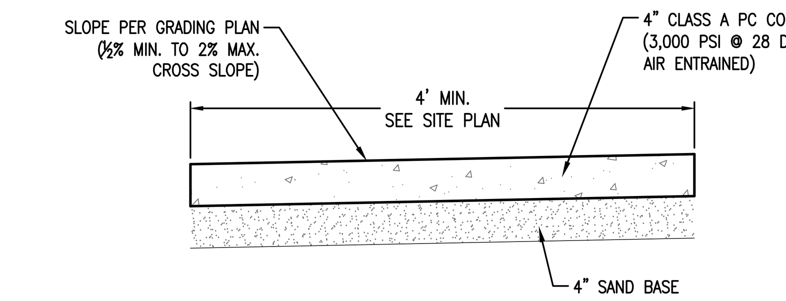
NOTES
1. CONCRETE CURB AND GUTTER SHALL BE CLASS A PC CONCRETE (3,500 PSI @ 28 DAYS AIR ENTRAINED).
2. WHEN PAVING ADJACENT TO GUTTER SLOPES AWAY FROM GUTTER, THE SLOPE OF THE GUTTER SHALL MATCH THE SLOPE OF THE ADJACENT PAVING. THE THICKNESS OF GUTTER ADJACENT TO THE PAVEMENT SHALL BE THE CORRESPONDING DIMENSION "D".
3. SET ½" EXPANSION JOINTS AT MAXIMUM 100' C/C SPACING USING ½"X4" PRE-MOLDED EXPANSION JOINT MATERIAL. SET CONTRACTION JOINTS AT 15' TO 20' C/C. FILL ALL JOINTS TO SURFACE WITH SILICONE SEALANT.
4. USE TYPE E TIED JOINT BETWEEN PC CONCRETE PAVEMENT AND GUTTER WHEN CURB AND GUTTER ARE POURED SEPARATELY FROM THE PAVING.

SPECIFIED CURB	C&G NUMBER (AB-CD)	CURB DIMENSIONS		GUTTER DIMENSIONS	
		A	B	C	D
		WIDTH (IN)	HEIGHT (IN)	WIDTH (IN)	THICKNESS (IN)
	86-166	8	6	16	6
	86-168	8	6	16	8
	86-226	8	6	22	6
	86-228	8	6	22	8
	86-246	8	6	24	6
	88-246	8	8	24	6
X	88-248	8	8	24	8

03 CURB AND GUTTER
Scale: N.T.S.



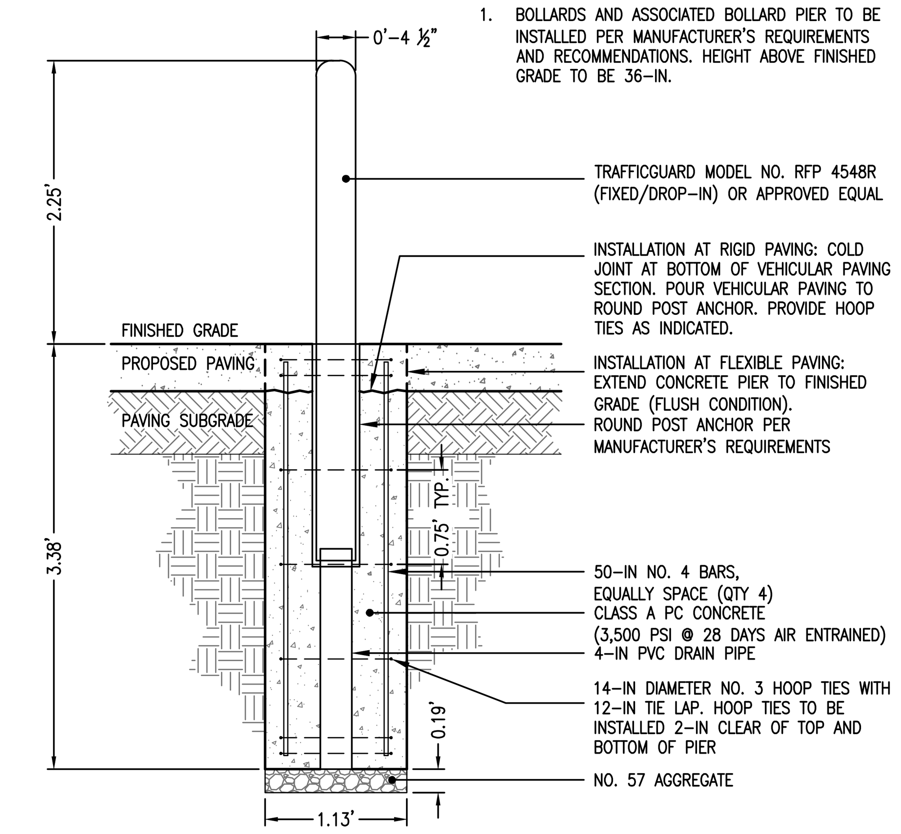
01 HEAVY DUTY PC CONCRETE PAVING
Scale: N.T.S.



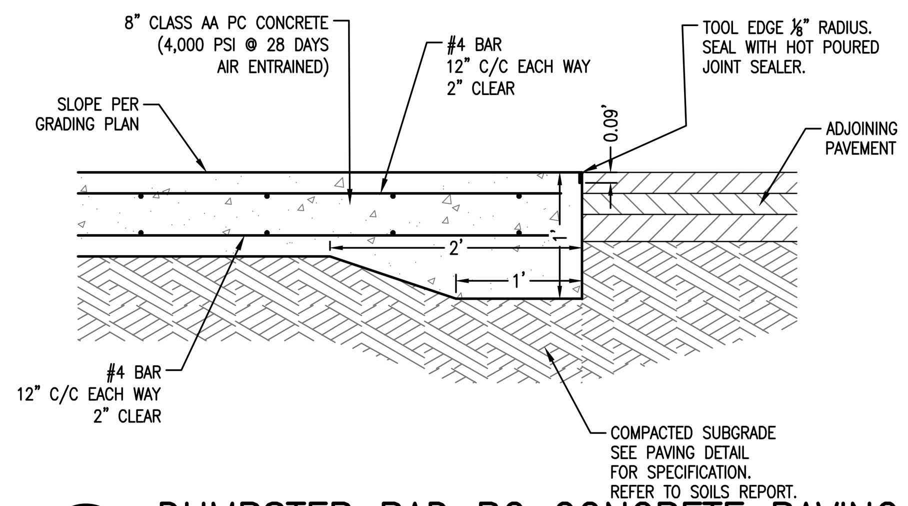
SET ½" EXPANSION JOINTS AT MAXIMUM 100 FT C/C SPACING USING ½"X4" PRE-MOLDED EXPANSION JOINT MATERIAL. SET CONTRACTION JOINTS SAW CUT TO A 1-1/2" DEPTH AT A SPACING EQUAL TO THE SIDEWALK WIDTH BUT NO GREATER THAN 7 FT. FILL ALL JOINTS TO SURFACE WITH SILICONE SEALANT. SET OR REMOVE PRE-MOLDED EXPANSION JOINT MATERIAL TO ½" BELOW SIDEWALK SURFACE PRIOR TO SEALING. USE ½"X4" PRE-MOLDED EXPANSION JOINT MATERIAL ALONG SIDEWALKS ADJOINING CURBS.

02 SIDEWALKS
Scale: N.T.S.

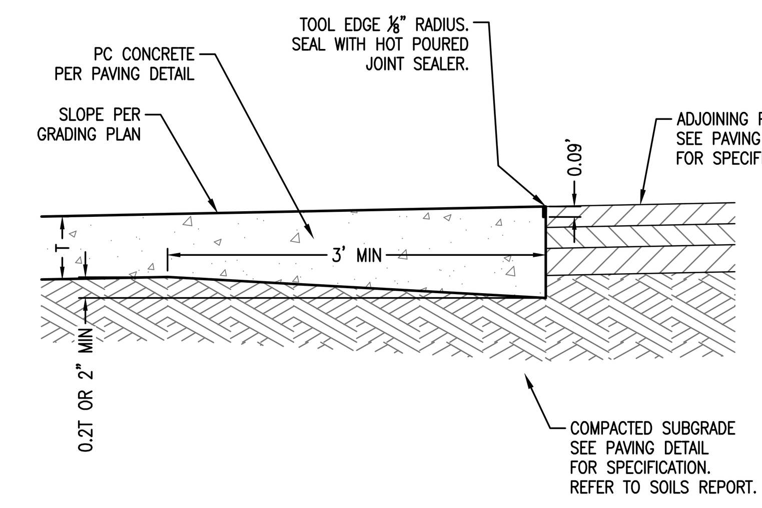
NOTES:
1. BOLLARDS AND ASSOCIATED BOLLARD PIER TO BE INSTALLED PER MANUFACTURER'S REQUIREMENTS AND RECOMMENDATIONS. HEIGHT ABOVE FINISHED GRADE TO BE 36-IN.



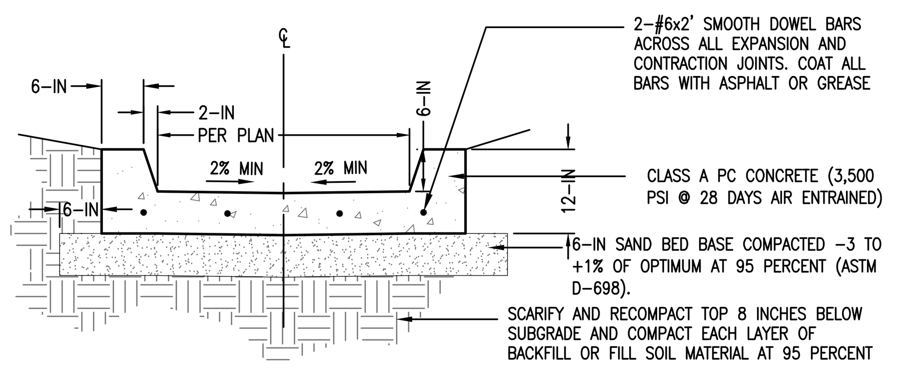
06 BOLLARD DETAIL
Scale: N.T.S.



04 DUMPSTER PAD PC CONCRETE PAVING
Scale: N.T.S.



05 THICKENED CONCRETE EDGE
Scale: N.T.S.

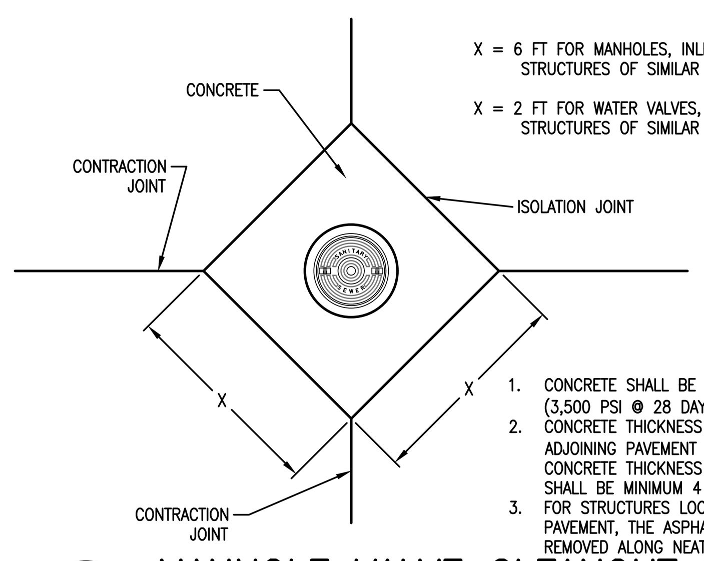


NOTES:
1. PROVIDE CONTRACTION JOINTS @ 20-FT O.C. AND EXPANSION JOINTS @ 100-FT O.C.
2. INSTALL A MINIMUM WIDTH OF 24-IN SOLID SLAB SOD ON EITHER SIDE OF CURB FLUME.
3. CONTRACTOR SHALL REMOVE ALL SILT AND SEDIMENT FROM FLUME PRIOR TO FINAL INSPECTION AND ACCEPTANCE BY OWNER.

07 FLUMES
Scale: N.T.S.

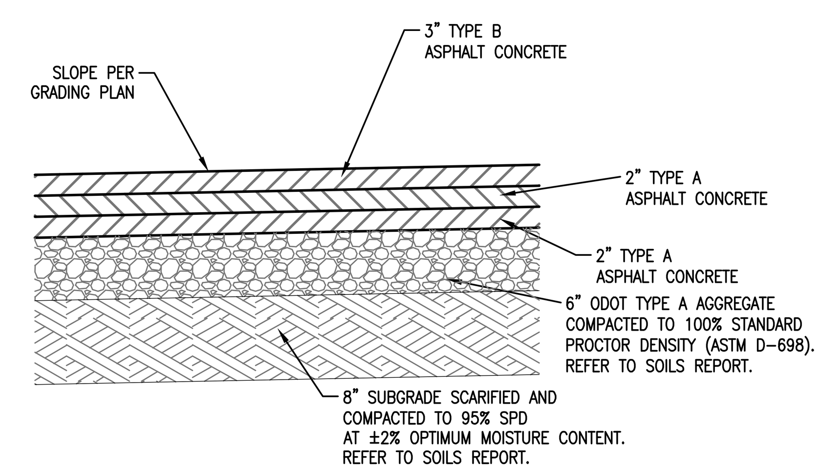
X = 6 FT FOR MANHOLES, INLETS, AND OTHER STRUCTURES OF SIMILAR SIZE

X = 2 FT FOR WATER VALVES, CLEANOUTS, AND OTHER STRUCTURES OF SIMILAR SIZE



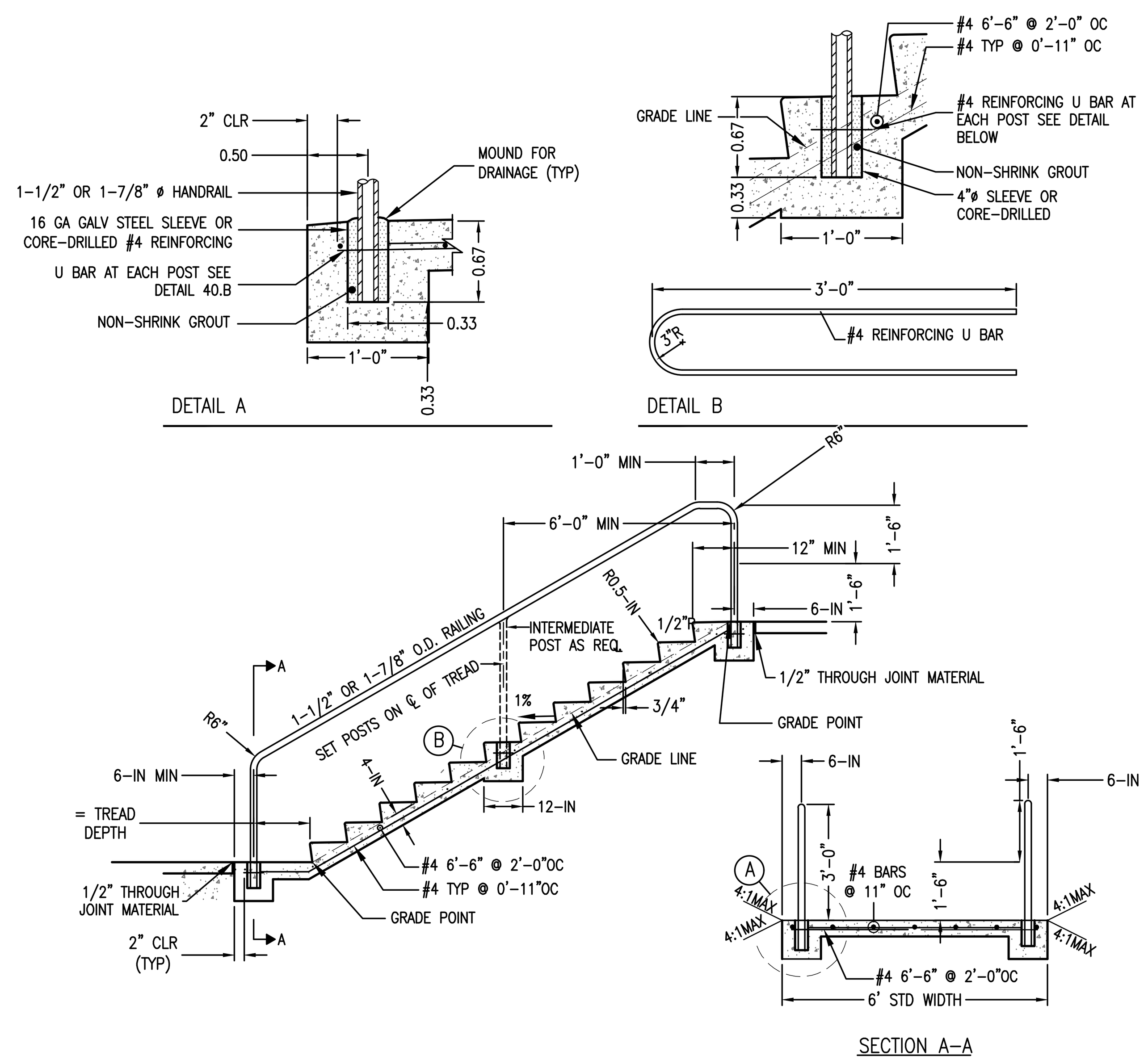
1. CONCRETE SHALL BE CLASS A PC CONCRETE (3,500 PSI @ 28 DAYS AIR ENTRAINED).
2. CONCRETE THICKNESS SHALL MATCH ADJOINING PAVEMENT (MIN. 6 INCHES). CONCRETE THICKNESS IN LANDSCAPED AREAS SHALL BE MINIMUM 4 INCHES.
3. FOR STRUCTURES LOCATED IN ASPHALT PAVEMENT, THE ASPHALT PAVEMENT SHALL BE REMOVED ALONG NEAT SAW CUT LINES.

08 MANHOLE VALVE CLEANOUT ISO. DTL
Scale: N.T.S.



09 HEAVY DUTY ASPHALT PAVING
Scale: N.T.S.

NOTES:
1. FLIGHTS OF STAIRS SHOULD BE SHORT (MAX 20 STEPS PER FLIGHT BEFORE A LANDING IS REQUIRED).
2. AVOID FEWER THAN 2 STEPS PER FLIGHT.
3. STEPS IN FLIGHT MUST HAVE UNIFORM TREAD RUNS AND UNIFORM RISER HEIGHTS WITH TOLERANCE OF ±3/8".
4. TREADS SHALL BE 11"MIN, 12"MAX. RISERS SHALL BE 5"MIN, 7"MAX.
5. LANDINGS BETWEEN FLIGHTS OF STEPS MUST HAVE SAME WIDTH AS STEPS AND A MIN LENGTH OF 4'-0".
6. FLIGHTS OF 4 OR MORE STEPS SHALL HAVE HANDRAILS ON BOTH SIDES
7. FLIGHTS OF 4 OR MORE STEPS WIDER THAN 60 INCHES SHALL HAVE A CENTER HANDRAIL IN ADDITION TO EACH SIDE.
8. HANDRAILS SHALL BE CONTINUOUS ACROSS LANDINGS BETWEEN FLIGHTS OF STEPS.
9. HANDRAILS SHALL BE 1.5" OR 1.9" O.D. TYPE 304 OR 316L POLISHED STAINLESS STEEL OR POWDER COATED STEEL (COLOR TO BE BLACK UNLESS INDICATED BY ARCHITECT/ENGINEER).
10. PIPE MATERIAL SHALL BE ASTM A53.
11. REINFORCING STEEL SHALL BE ASTM A615 GR 60.
12. ALL CONCRETE SHALL HAVE A 28-DAY COMPRESSIVE STRENGTH OF 3,500-PSI MINIMUM AND SHALL MEET THE REQUIREMENTS OF SECTION 03300 OF THE PROJECT SPECIFICATIONS.
13. SEE GRADING PLAN (C8 SERIES) FOR ACTUAL NUMBER OF STAIR RISERS/TREADS.



10 EXTERIOR STAIRS AND HANDRAIL
Scale: N.T.S.

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KEY PLAN:

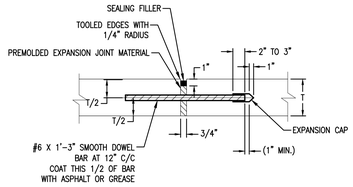
PROJECT PHASE:
95% CONSTRUCTION DRAWINGS

REVISIONS		
#	DATE	DESCRIPTION

DATE:	JOB NUMBER:
07-26-19	17-13

SHEET NUMBER:
C3-501

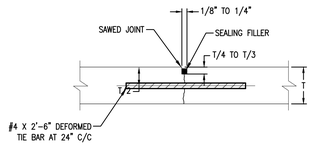
SITE DETAILS



SMOOTH DOWEL BARS ACROSS EXPANSION JOINTS SHALL BE PROVIDED WITH EXPANSION CAPS, AND COATED WITH ASPHALT OR GREASE. GROOVES IN JOINTS MAY BE FORMED BY: (1) TEMPORARY EMBEDMENT OF A SUITABLE MANDREL, (2) INSTALLATION OF A THIN STRIP OF PREMOULDED JOINT FILLER MATERIAL, (3) SAWING THE PAVEMENT AFTER THE CONCRETE HAS HARDENED.

01 EXPANSION JOINT (TYPE A)

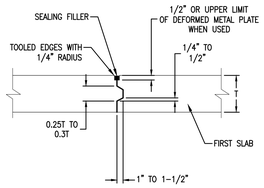
Scale: N.T.S.



GROOVES IN JOINTS MAY BE FORMED BY: (1) TEMPORARY EMBEDMENT OF A SUITABLE MANDREL, (2) INSTALLATION OF A THIN STRIP OF PREMOULDED JOINT FILLER MATERIAL, (3) SAWING THE PAVEMENT AFTER THE CONCRETE HAS HARDENED.

02 TIED JOINT (TYPE B)

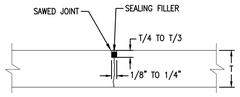
Scale: N.T.S.



GROOVES IN JOINTS MAY BE FORMED BY: (1) TEMPORARY EMBEDMENT OF A SUITABLE MANDREL, (2) INSTALLATION OF A THIN STRIP OF PREMOULDED JOINT FILLER MATERIAL, (3) SAWING THE PAVEMENT AFTER THE CONCRETE HAS HARDENED.

03 T&G CONSTRUCTION JOINT (TYPE C)

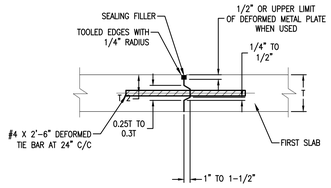
Scale: N.T.S.



GROOVES IN JOINTS MAY BE FORMED BY: (1) TEMPORARY EMBEDMENT OF A SUITABLE MANDREL, (2) INSTALLATION OF A THIN STRIP OF PREMOULDED JOINT FILLER MATERIAL, (3) SAWING THE PAVEMENT AFTER THE CONCRETE HAS HARDENED.

04 CONTRACTION JOINT (TYPE D)

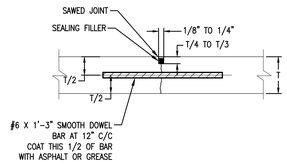
Scale: N.T.S.



GROOVES IN JOINTS MAY BE FORMED BY: (1) TEMPORARY EMBEDMENT OF A SUITABLE MANDREL, (2) INSTALLATION OF A THIN STRIP OF PREMOULDED JOINT FILLER MATERIAL, (3) SAWING THE PAVEMENT AFTER THE CONCRETE HAS HARDENED.

05 TIED CONSTRUCTION JOINT (TYPE E)

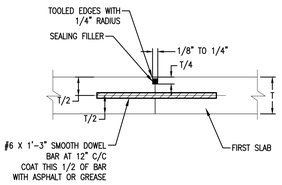
Scale: N.T.S.



GROOVES IN JOINTS MAY BE FORMED BY: (1) TEMPORARY EMBEDMENT OF A SUITABLE MANDREL, (2) INSTALLATION OF A THIN STRIP OF PREMOULDED JOINT FILLER MATERIAL, (3) SAWING THE PAVEMENT AFTER THE CONCRETE HAS HARDENED.

06 DOWELED CONTRACTION JOINT (TYPE F)

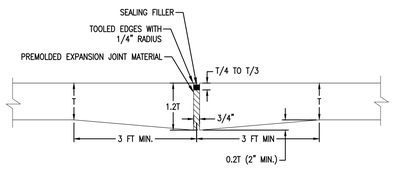
Scale: N.T.S.



GROOVES IN JOINTS MAY BE FORMED BY: (1) TEMPORARY EMBEDMENT OF A SUITABLE MANDREL, (2) INSTALLATION OF A THIN STRIP OF PREMOULDED JOINT FILLER MATERIAL, (3) SAWING THE PAVEMENT AFTER THE CONCRETE HAS HARDENED.

07 DOWELED CONSTRUCTION JOINT (TYPE G)

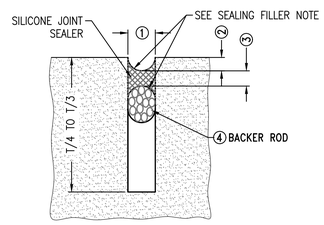
Scale: N.T.S.



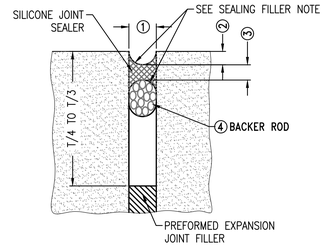
FORM ISOLATION JOINTS OF PREFORMED EXPANSION JOINT MATERIAL STRIPS ABUTTING CONCRETE CURBS, CATCH BASINS, MANHOLES, INLETS, STRUCTURES, OTHER FIXED OBJECTS, AND WHERE INDICATED.

08 ISOLATION JOINT (TYPE H)

Scale: N.T.S.



CONTRACTION JOINT SEALING FILLER



EXPANSION JOINTS / ISOLATION JOINTS SEALING FILLER

SEALING FILLER SHAPE NOTE

1. THE SHAPE FACTOR COMBINED WITH THE JOINT CLEANLINESS IS THE CRITICAL COMBINATION NECESSARY TO GUARANTEE DESIRED BONDING AND FUNCTION OF SEALED JOINTS. THE JOINT SHAPE FACTOR IS DEFINED AS THE FINAL PRESSED SHAPE OF THE SILICONE MATERIAL.
2. THE TOOLING OPERATION WILL FIRMLY PRESS THE FRESHLY APPLIED MATERIAL INTIMATELY AGAINST THE CUT SIDES OF THE RECESS AND THE BACKER ROD SURFACES. THE ROUNDED SHAPE ON TOP AND BOTTOM OF THE SILICONE ALLOWS THE SEALANT TO PROPERLY FLEX BUT MAINTAIN ADHERENCE TO THE PAVING.
3. SELF LEVELING SEALANTS WILL BE INSTALLED TO BE FLUSH WITH THE PAVEMENT SURFACE OR BY MANUFACTURER'S RECOMMENDATION.

EXPANSION JOINT / ISOLATION JOINT TREATMENT TABLE

JOINT WIDTH ①	SEALANT RECESS DEPTH ②	SILICONE SEALANT THICKNESS ③	BACKER AND DIAMETER ④
1/2"	3/8"	1/4"	5/8"
3/4"	3/8"	3/8"	7/8"
1"	3/8"	1/2"	1-1/4"
1-1/2"	1/2"	3/4"	2"
2"	1/2"	3/4"	2-1/2"

EXPANSION AND ISOLATION JOINT WIDTHS SHALL BE 3/4" UNLESS OTHERWISE SPECIFIED ON THE PLANS. TABLE VALUES AS SHOWN IN THIS TABLE SHALL BE USED IN THOSE SPECIFIED CASES.

12 JOINT SEALING FILLER

Scale: N.T.S.

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TAHLEQUAH, OK

KEY PLAN:

PROJECT PHASE:
95% CONSTRUCTION DRAWINGS

REVISIONS

#	DATE	DESCRIPTION

DATE: 07-26-19
JOB NUMBER: 17-13
SHEET NUMBER: C3-502

CONCRETE JOINT DETAILS

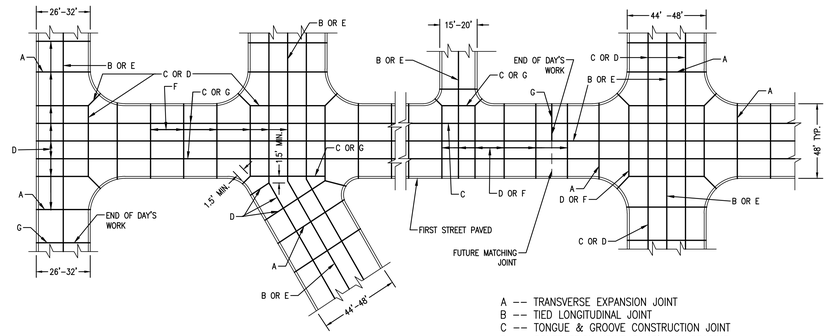
JOINT REQUIREMENTS

1. Avoid odd-shaped slabs.
2. The maximum transverse joint spacing for drives shall be 24 to 30 times the slab thickness or 15 ft, whichever is less. Divide the length between the concrete being placed into equally spaced joints.
3. Slabs shall be as square as possible. The length of a panel shall not be more than 25% greater than its width.
4. All transverse contraction joints shall be continuous through the curb and have a depth equal to 1/4 to 1/3 the pavement thickness.
5. In isolation joints, the filler shall be full depth and extend through the curb.
6. If there is no curb, longitudinal joints shall be tied with deformed tie bars.
7. Offsets at radius points shall be at least 1.5 ft wide. Joint intersection angles less than 60 degrees shall be avoided.
8. Minor adjustments in joint location made by shifting or skewing to meet inlets and manholes is allowable.
9. Place joints to meet drainage structures, if possible.
10. In parking lots, tie bars shall be used in the first longitudinal joint from the pavement edge to keep the outside slab from separating from the pavement. Tie bars are not required in the interior joints of parking lots and other wide paved areas because they are confined by surrounding slabs. Tie bars shall be used on the centerline joints of entrance drives.
11. Planned interruptions in paving shall have either a Doweled Construction Joint Type G or a Tongue and Groove Construction Joint Type C.
12. If curbs are poured separate from pavement, a Tied Construction Joint Type E shall be used between the curb and the pavement.
13. Where slabs of different paving thicknesses come together, the subgrade under the thinner pavement shall be be shaped from a distance of 3 ft or more to provide a gradual transition to the larger pavement thickness.
14. Submit joint layout plan to Engineer for approval prior to concrete placement.

SPACING BETWEEN JOINTS	
PAVEMENT THICKNESS, INCHES	MAXIMUM SPACING, FEET
3.5	8.5
4 AND 4.5	10
5 AND 5.5	12.5
6 AND GREATER	15

01 JOINT NOTES AND SPACING REQUIREMENTS

Scale: N.T.S.

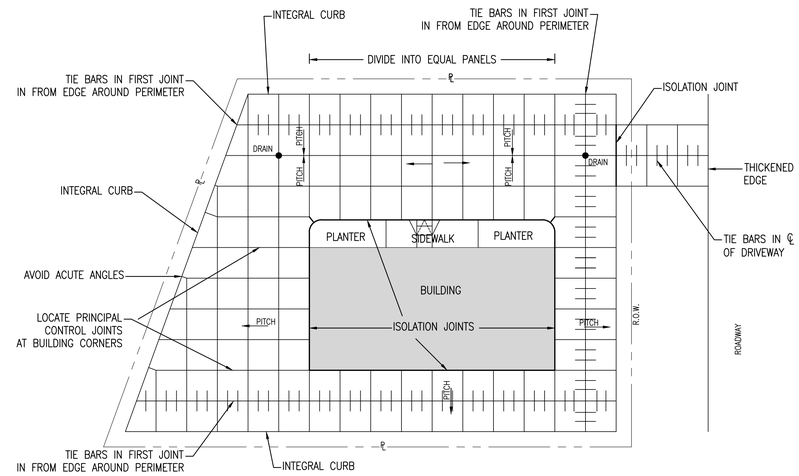


NOTE:
USE TYPE E TIED JOINT BETWEEN PAVEMENT AND GUTTER WHEN CURB AND GUTTER ARE POURED SEPARATELY FROM THE PAVING.

A -- TRANSVERSE EXPANSION JOINT
B -- TIED LONGITUDINAL JOINT
C -- TONGUE & GROOVE CONSTRUCTION JOINT
D -- CONTRACTION JOINT @ 12' MAX SPACING
E -- TIED LONGITUDINAL JOINT
F -- DOWELED CONTRACTION JOINT
G -- DOWELED CONSTRUCTION JOINT

02 TYPICAL JOINT LAYOUT FOR ROADWAYS

Scale: N.T.S.



03 TYPICAL JOINT LAYOUT FOR PARKING LOTS

Scale: N.T.S.

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PROJECT PHASE:
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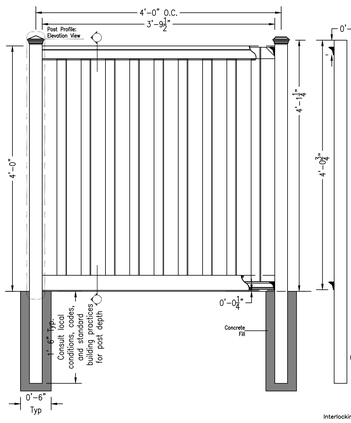
REVISIONS

#	DATE	DESCRIPTION

DATE: 07-26-19
JOB NUMBER: 17-13
SHEET NUMBER: C3-503

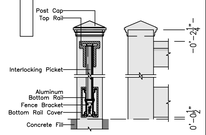
CONCRETE JOINT LAYOUT DETAILS

ARCHITECTURAL DRAWING:
TREX SECLUSIONS FENCING
8' TALL x 8' WIDE



COMPONENTS	QUANTITY	LENGTH
Post Cap: Pyramid, Flat, or Crown	1	
5" x 5" Post	1	144" *
4" x 4.9" Top Rail	1	91" *
1"x5.75" Interlocking Picket	19	91" *
1" x 5.75" Bottom Rail Cover	2	91" *
Aluminum Bottom Rail	1	90 1/2"
Fence Bracket	4	
1 5/8" (Typ) Exterior Wood Screws	24	

* Length may vary



Post Profile: Cut View / Elevation View

NOTES:

1. INSTALLATION TO BE COMPLETED PER MANUFACTURER'S SPECIFICATION.
2. THIS DRAWING IS PROVIDED FOR PLANNING PURPOSES. REFER TO MANUFACTURER'S INSTALLATIONS FOR CONSTRUCTION DETAILS.
3. REFER TO MANUFACTURER'S WEBSITE FOR PRODUCT INFORMATION.
4. DRAWING NOT TO SCALE.

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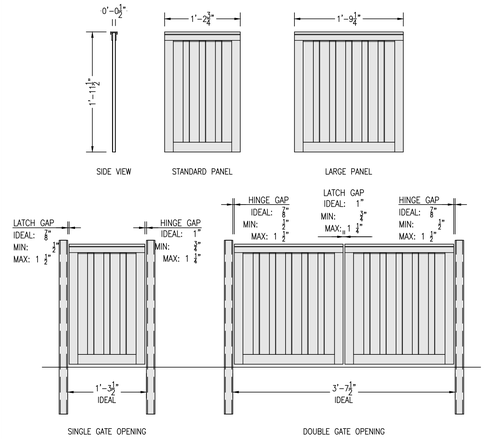
ARCHITECTURAL DRAWING:
TREX SECLUSIONS
FENCING GATE



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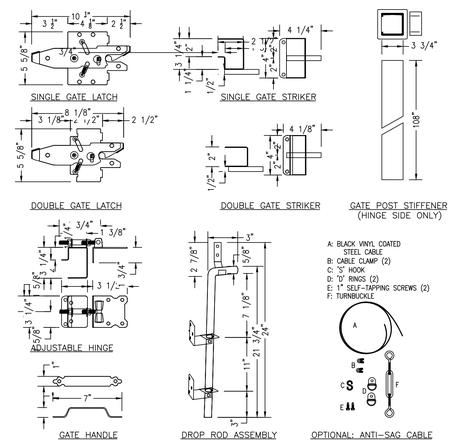
ARCHITECTURAL DRAWING:
GATE HARDWARE FOR TREX
SECLUSIONS AND HORIZONS
FENCING SYSTEMS



A: BLACK VINYL COATED STEEL CABLE
B: CABLE CLAMP (2)
C: "S" HOOK
D: "D" RINGS (2)
E: 1" SELF-TAPPING SCREWS (2)
F: TURNBUCKLE

NOTES:

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ALL TREX GATE HARDWARE IS MADE OF STAINLESS STEEL AND IS POWDER-COATED BLACK. SELF-TAPPING SCREWS ARE INCLUDED.

TREX FENCING GATE HARDWARE

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01 TREX SECLUSIONS FENCING
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REVISIONS

#	DATE	DESCRIPTION

DATE: 07-26-19
JOB NUMBER: 17-13
SHEET NUMBER: C3-504

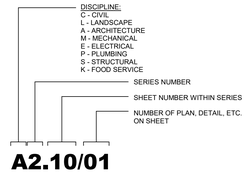
SITE FENCING DETAILS

ABBREVIATIONS

@	AT
A/C	AIR CONDITIONING
AB	ANCHOR BOLT
ABC	AGGREGATE BASE COURSE
AC	ACOUSTICAL CEILING
ADJ	ADJACENT
AFF	ABOVE FINISH FLOOR
AGG	AGGREGATE
ALT	ALTERNATE
ALUM	ALUMINUM
ANCH	ANCHOR, ANCHORAGE
ANOD	ANODIZED
AP	ACCESS PANEL
BD	BOARD
BFF	BELOW FINISH FLOOR
BLDG	BUILDING
BLK(G)	BLOCK(ING)
BM	BENCH MARK
BO	BOTTOM OF
BOT	BOTTOM
BRG	BEARING
BRK	BRICK
BSMT	BASEMENT
BU	BUILT UP
CMWP	COMPOSITE METAL WALL PANEL SYSTEM
C	CHANNEL
C/C	CENTER TO CENTER
CAB	CABINET
CB	CHALK BOARD, CATCH BASIN
CEM	CEMENT
CG	CORNER GUARD
CI	CAST IRON
CIP	CAST IN PLACE
CJ	CONTROL JOINT
CLG	CEILING
CLR	CLEAR FLOOR SPACE
CMP	CORRUGATED METAL PIPE
CMTS	COMMENTS
CMU	CONCRETE MASONRY UNIT
CO	CASED OPENING
COL	COLUMN
COMB	COMBINATION
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS OR CONTINUE
CORR	CORRIDOR, CORRUGATED
CT	CARPET TILE
CR	CARD READER
CSK	COUNTERSINK
CTB	CERAMIC TILE - BASE
CTF	CERAMIC TILE - FLOOR
CTW	CERAMIC TILE - WALL
CU	CUBIC
CU FT	CUBIC FOOT (FEET)
CW	COLD WATER
D	DEPTH
DEMO	DEMOLISH, DEMOLITION
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DISP	DISPENSER
DN	DOWN
DO	DITTO
DP	DAMPPROOFING
DR	DOOR
DS	DOWNSPOUT
DTL	DETAIL
DWG	DRAWING
DWC	DRYWALL CHANNELS (HAT)
E	EAST
EA	EACH
EF	EACH FACE
EG	END GUARD
EJ	EXPANSION JOINT
ELEC	ELECTRIC(AL)
ELEV	ELEVATION, ELEVATOR
EMER	EMERGENCY
EP	EPOXY PAINT
EQ	EQUAL
EQUIP	EQUIPMENT
ES	EXPOSED STRUCTURE
EST	ESTIMATE
EW	EACH WAY
EWC	ELECTRIC WATER COOLER
EXC	EXCAVAT(E)(ION)
EXH	EXHAUST
EXIST	EXISTING
EXP	EXPANSION, EXPOSED
EXT	EXTERIOR
EIFS	EXT. INSULATION FINISH SYSTEM
F	FAHRENHEIT
FA	FIRE ALARM
FAB	FABRICATE
FD	FURR-DOWN
FDN	FOUNDATION
FE(C)	FIRE EXTINGUISHER (CABINET)
FF	FINISH FLOOR
FHC	FIRE HOSE CABINET
FHR	FIRE HOSE RACK
FIN	FINISH(ED)
FL	FLOOR
FLA	FLASHING
FLEX	FLEXIBLE
FLUOR	FLUORESCENT
FO	FACE OF
FP	FIREPROOF
FRP	FIBER REINFORCED PLASTIC
FT	FOOT, FEET
FTG	FOOTING
FUR	FURRED(ING)
FUT	FUTURE
GA	GAGE, (GAUGE)
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GD	GRADE
GL	GLASS, GLAZING
GWB	GYPSUM WALLBOARD
GYP	GYPSUM
H(T)	HEIGHT
HB	HOSE BIB
HC	HOLLOW CORE
HDBD	HARDBOARD
HD	HEAVY DUTY
HDWD	HARDWOOD
HDWR	HARDWARE
HM	HOLLOW METAL
HORZ	HORIZONTAL
HP	HIGH POINT
HR	HOUR
HVAC	HEATING/ VENTILATING/ AIR CONDITIONING
HW	HOT WATER
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
IN	INCH(ES)
INCL	INCLUDING
INSUL	INSULATION
INT	INTERIOR
JC	JANITORS CLOSET
JST	JOIST
JT	JOINT
KD	KNOCKED DOWN
KIT	KITCHEN
KO	KNOCK OUT
KP	KICK PLATE
L	LENGTH, LONG
LAB	LABORATORY
LAM	LAMINATE
LAV	LAVATORY
LF	LINEAL FEET
LH	LEFT HAND
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LP	LOW POINT
LT	LIGHT
LTWT	LIGHTWEIGHT
LVR	LOUVER
MAS	MASONRY
MAX	MAXIMUM
MATL	MATERIAL
MED	MEDIUM
MECH	MECHANICAL
MET	METAL
MEZZ	MEZZANINE
MFR	MANUFACTURER
MH	MANHOLE
MIRR	MIRRORED
MM	MILLIMETER
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MOD	MODULAR
MOV	MOVABLE
MTD	MOUNTED
MWP	METAL WALL PANEL SYSTEM (SYSTEM)
N	NORTH
NA	NOT APPLICABLE
NIC	NOT IN CONTRACT
NOM	NOMINAL
NRC	NOISE REDUCTION COEFFICIENTS
NTS	NOT TO SCALE
NO	NUMBER
OA	OVERALL
OC	ON CENTER(S)
OD	OUTSIDE DIAMETER
OFF	OFFICE
OH	OVERHEAD, OPPOSITE HAND
OPG	OPENING
OPP	OPPOSITE
ORD	OVERFLOW ROOF DRAIN
P(#)	PARTITION TYPE
P	PAINT(ED)
PAR	PARALLEL
PART	PARTITION
PART BD	PARTICLE BOARD
PC	PIECE
PCC	PRECAST CONCRETE
PCF	POUNDS PER CUBIC FOOT
PERIM	PERIMETER
PERP	PERPENDICULAR
PF	PERFORATE(D)
PJ	PANEL JOINT
PL	PLASTER, PLATE, PROPERTY LINE
PLBG	PLUMBING
PLAM	PLASTIC LAMINATE
PLF	POUNDS PER LINEAL FOOT
PNL	PANEL
PO	POWER OPERATED
PR	PAIR
PREFAB	PREFABRICATED
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	POINT
PTD	PAPER TOWEL DISPENSER
PTR	PAPER TOWEL RECEPTOR
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
PWD	PLYWOOD
QT	QUARRY TILE
QTR	QUARTER
QTY	QUANTITY
(R)	RECESSED
R	RADIUS, RISER ROUND
RA	RETURN AIR
RB	RESILIENT BASE
RCP	REINFORCED CONCRETE PIPE, REFLECTED CEILING PLAN
RD	ROOF DRAIN
RE(F)	REFERENCE
RELO	RELOCATION
REPL	REPLACE
RES	RESILIENT
REV	REVISION(S), REVISED
RF	RIGID FIBERGLASS
RFG	ROOFING
RH	RIGHT HAND
RM	ROOM
RO	ROUGH OPENING
ROW	RIGHT OF WAY
REQ'D	REQUIRED
RWL	RAINWATER LEADER
S	SEALED, SOUTH
(S)	SURFACE MOUNTED
SC	SOLID CORE, SEALED CONCRETE
SCHED	SCHEDULE
SECT	SECTION
SD	STORM DRAIN
SDG	SIDING
SF	SQUARE FEET
SHT	SHEET
SHWR	SHOWER
SIM	SIMILAR
SL	SHEET LINOLEUM
SM	SHEET METAL
SP	SOUNDPROOF
SPECS	SPECIFICATIONS
SPKR	SPEAKER
SPL	SPECIAL
SQ	SQUARE
SS	SERVICE SINK
SST	STAINLESS STEEL
ST	STEEL, STREET
STC	SOUND TRANSMISSION COEFFICIENT
STD	STANDARD
STOR	STORAGE
STRUC	STRUCTURAL
SUSP	SUSPENDED
SV	SEAMLESS VINYL
SW	SWITCH
SWR	SEWER
SYM	SYMMETRY(ICAL)
T	THICKNESS, TEE
TD	TRENCH DRAIN
T&G	TONGUE & GROOVE
TB	TACKBOARD
TEL	TELEPHONE
TEMP	TEMPERATURE, TEMPORARY
TERR	TERRAZZO
THK	THICK(NESS)
TO	TOP OF
TOC	TOP OF CONCRETE
TOIL	TOILET
TOP	TOP OF PARAPET
TOS	TOP OF STEEL
TOW	TOP OF WALL
TPD	TOILET PAPER DISPENSER
TV	TELEVISION
TYP	TYPICAL
U	URINAL
UG	UNDERGROUND
UL	UNDERWRITERS LABORATORY
UNF	UNFINISHED
UNO	UNLESS NOTED OTHERWISE
VB	VAPOR BARRIER
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
V/F	VERIFY IN FIELD
VNR	VENEER
VPL	VENEER PLASTER
VWC	VINYL WALL COVERING
W	WIDTH, WIDE, WEST
W/	WITH
W/O	WITHOUT
W/W	WALL TO WALL
WC	WATER CLOSET
WD	WOOD
WDW	WINDOW
WH	WALL HUNG, WATER HEATER
WI	WROUGHT IRON
WM	WIRE MESH
WP	WATERPROOFING
WR	WATER REPELLENT
WS	WEATHER-STRIP
WSCT	WAINSCOT
WT	WEIGHT
WWF	WELDED WIRE FABRIC
YD	YARD

INDEX OF DRAWINGS

NUMBERING SYSTEM:



LEGEND

MATERIALS

- CONCRETE/ PRECAST CONCRETE
- SOIL
- SAND, EIFS FINISH COAT, OR CEMENT PLASTER
- BRICK
- CMU
- STONE
- GLASS MINERAL FIBER BATT INSULATION
- GLASS MINERAL FIBER SEMI RIGID INSULATION
- MINERAL WOOL SEMI RIGID INSULATION
- EXPANDED POLYSTYRENE RIGID INSULATION
- EXTRUDED POLYSTYRENE RIGID INSULATION
- POLYISOCYANURATE RIGID INSULATION
- GYPSUM BOARD
- EXTERIOR GYPSUM SHEATHING
- EXTERIOR CEMENT BOARD
- COATED GLASS MAT WATER RESISTANT GYP BD
- PLYWOOD
- COVER BOARD

DRAWING SYMBOLS

- ROOM NAME XXXXX — ROOM NAME/NUMBER
- X — EXISTING COLUMN CENTERLINE
- X — COLUMN CENTERLINE
- HMXX — HOLLOW METAL FRAMES / INTERIOR STOREFRONT
- 01 / A0.XX — BUILDING WALL SECTION
- A0.XX — ELEVATION
- A0.XX — SECTION DETAIL
- 01 / A0.XX — PLAN, BLOW-UP DETAIL
- 9'-0" — CEILING HEIGHT
- MEDICAL GAS
- CORNER GUARDS
- WALL PROTECTION
- CUBICLE CURTAIN TRACK
- A3 — PARTITION TYPE
- BUILDING EXPANSION JOINT
- CMU WALL
- NEW WALL
- EXISTING WALL
- DEMO WALL

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PROFESSIONAL SEAL:

CONSULTANT LOGO:

CLIENT:

COLLEGE OF Osteopathic Medicine AT THE CHEROKEE NATION

TAHLEQUAH, OKLAHOMA

KEY PLAN:

PROJECT PHASE:

95% CONSTRUCTION DOCUMENTS

REVISIONS		
#	DATE:	DESCRIPTION

DATE:	JOB NUMBER:
07-26-19	17-13

SHEET NUMBER:

API

PROJECT INFORMATION

CODE SUMMARY

The following information summarizes the fire and life safety code compliance approach for College of Osteopathic Medicine at the Cherokee Nation (Building/Project) located in Tahlequah, Oklahoma.

1 PROJECT DESCRIPTION

The Project involves a higher education building for osteopathic medicine. The Building has an approximate total area of 83,872 square feet with four stories, one basement level and three levels above grade. The Building is comprised of lecture halls, teaching laboratories, conference rooms, an exercise room, classrooms, a library, office spaces, and supporting spaces, such as restrooms, storage rooms, and mechanical and electrical rooms. The Building is protected throughout with an automatic sprinkler system, standpipe system, and an emergency voice/alarm communication system (i.e., fire alarm system).

2 CODES & STANDARDS

The Authority Having Jurisdiction (AHJ) for the project is the Cherokee Nation and the Indian Health Service. This summary reflects the requirements established by both entities.

The following applicable codes and standards apply to the design and construction:

- International Building Code, 2015 edition (IBC)
- International Fire Code, 2015 edition (IFC)
- International Mechanical Code, 2015 edition (IMC)
- NFPA 10, *Standard for Portable Fire Extinguishers*, 2013 edition
- NFPA 13, *Standard for the Installation of Sprinkler Systems*, 2013 edition
- NFPA 14, *Standard for the Installation of Standpipe and Hose Systems,* 2013 edition
- NFPA 20, *Standard for the Installation of Stationary Fire Pumps for Fire Protection*, 2013 edition
- NFPA 70, *National Electrical Code,* 2014 edition
- NFPA 72, *National Fire Alarm and Signaling Code,* 2013 edition
- All codes referenced within the aforementioned documents.

3 OCCUPANCY CLASSIFICATIONS

The Building is classified as nonseparated mixed-use, in accordance with IBC §508.3. Table 1 identifies the Building's primary occupancies.

Table 1: Occupancy Classifications

Occupancy	Description	IBC
Group B	Classrooms, Offices, Laboratories	§304
Group A-3	Exercise Room, Lecture Halls, Library	§303.4
Group S-2	Storage Rooms, Cadaver Storage, Mechanical Rooms, Electrical Rooms	§311.3

4 HEIGHT, AREA, & CONSTRUCTION CLASSIFICATION

4.1 Construction Classification

The Building will be constructed as Type IIB construction classification in accordance with IBC Chapters 5 and 6. The construction classification supports the most restrictive occupancy classification and the building height and area required to accommodate the project program.

The Building is a Risk Category III, in accordance with IBC Table 1604.5.

4.2 Allowable Height, Stories, & Area

Using the most restrictive occupancy classification (i.e., Group A-3), construction classification, and considering the Building is protected throughout with an automatic sprinkler system, the Building is limited to the allowable height, stories, and area per story defined in Table 2.

Table 2: Actual/Allowable Height, Stories, and Area

Description	Actual	Maximum Allowable	IBC
Height (Above Grade)	75 ft.	75 ft.	Table 504.3
Stories (Above Grade)	3	3	Table 504.4
Area	24,850 ft^2	28,500 ft^2	Table 506.2

NA – Not Applicable

5 FIRE-RESISTANCE RATING & FIRE SEPARATION

5.1 Building Elements

Type IIB construction shall be of noncombustible materials complying with the fire-resistance rating requirements for building elements defined in Table 3.

Table 3: Fire-Resistance Rating of Building Elements

Building Element	Description	FR Rating	IBC
Primary Structural Frame	Columns, Girders, Trusses, Etc.	0-hour	Table 601
Bearing Walls	Interior | Exterior	0-hour	Table 601
Nonbearing Walls	Interior	0-hour	Table 601
Floor Construction & Secondary Members	Joists, Beams, Deck, Etc.	0-hour	Table 601
Roof Construction & Secondary Members	Joists, Beams, Deck, Etc.	0-hour	Table 601

5.2 Nonbearing Exterior Walls

Nonbearing exterior walls shall comply with the fire-resistance rating requirements defined in Table 4 based on fire separation distances. Fire separation distance is measured at a right angle from the building face to the closest interior lot line, centerline of a street, alley, or public way, or to an imaginary line between two buildings on the same lot.

Table 4: Fire-Resistance Rating of Nonbearing Exterior Walls

Fire Separation (ft.)	FR Rating	IBC
X < 5	1-hour	Table 602
5 ≤ X < 10	1-hour	Table 602
10 ≤ X < 30	1-hour	Table 602
X ≥ 30	0-hour	Table 602

5.3 Exterior Wall Openings

Unprotected exterior walls openings are limited to a maximum area for a sprinklered building based on fire separation distances, as defined in Table 5.

Table 5: Allowable Area of Exterior Wall Openings

Fire Separation (ft.)	Allowable Area*	IBC
X < 3	Not Permitted	Table 705.8
3 ≤ X < 5	15%	Table 705.8
5 ≤ X < 10	25%	Table 705.8
10 ≤ X < 15	45%	Table 705.8
15 ≤ X < 20	75%	Table 705.8
20 ≤ X < 25	No Limit	Table 705.8
25 ≤ X < 30	No Limit	Table 705.8
X ≥ 30	No Limit	Table 705.8

*Percentage of the area of the exterior wall per story

5.4 Interior Separation

Specific spaces and rooms shall be separated from the remainder of the building with fire-resistance rated fire barriers or smoke-tight construction capable of resisting the passage of smoke, in accordance with Table 6.

Table 6: Interior Separation for Specific Spaces and Rooms

Room or Space	FR Rating	Separation	Reference
Interior Exit Enclosures, connecting 3 or less stories	1-hour	FB	IBC §1023.2
Interior Exit Enclosures, connecting 4 or more stories	2-hour	FB	IBC §1023.2
Vertical Shaft Enclosures (Mechanical, Elevator, Dumbwaiter), connecting 3 or less stories	1-hour	FB	IBC §713.4
Vertical Shaft Enclosures (Mechanical, Elevator, Dumbwaiter), connecting 4 or more stories	2-hour	FB	IBC §713.4
Laundry Rooms	1-hour	FB	IBC Table 509
Waste & Linen Collection	0-hour	ST	IBC Table 509
Furnace (Equip. ≥ 200,000 Btu/hr)	0-hour	ST	IBC Table 509
Boiler (Equip. > 15 psi & 10 hp)	0-hour	ST	IBC Table 509
Fire Pump Room	1-hour	FB	NFPA 20 §4.13.1.1
Electrical (Transformer > 112½ kV)	1-hour	FB	NFPA 70 Article 450.21(B)

FB – Fire Barrier | ST – Smoke-Tight

5.5 Fire-Resistant Joint Systems

Joints installed in or between fire-resistance rated construction shall be protected by an approved fire-resistant joint system designed to resist the passage of fire for a period not less than the required fire-resistance rating of the associated construction, in accordance with IBC §715.

5.6 Opening Protection

Doors and/or other openings in enclosures and separations require protection in accordance with the following:

- **Smoke-Tight Construction:** Doors shall be self-closing or automatic-closing, upon detection of smoke, positive latching, shall have no air transfer openings, and shall not have undercuts exceeding the clearance defined in NFPA 80. All necessary air transfer openings shall be protected with smoke dampers. (IBC §509.4.2)
- **1-hour Fire Barrier:** Doors shall be self-closing or automatic-closing, upon detection of smoke, positive latching, minimum 45-minute fire-resistance rating, and shall have no louvers. Where a door is installed in an elevator lobby, the door shall have a minimum 1-hour fire-resistance rating. Ducts and air transfer openings shall be protected with minimum 90-minute fire-resistance rated fire dampers. (IBC §§ 716.5 and 717.5.2)
- **2-hour Fire Barrier:** Doors shall be self-closing or automatic-closing, upon detection of smoke, positive latching, minimum 90-minute fire-resistance rating, and shall have no louvers. Ducts and air transfer openings shall be protected with minimum 90-minute fire-resistance rated fire dampers, unless the fire barrier encloses a shaft, then the duct or air transfer opening shall be protected with fire/smoke damper having a Class I or II leakage rating and rated for no less than 250°F. (IBC §§ 716.5, 717.5.2, and 717.5.3)

6 INTERIOR FINISH

Interior wall and ceiling finishes shall be classified for fire performance and smoke development, in accordance with ASTM E84 or UL 723, and grouped into the classes defined in Table 7:

Table 7: Interior Finish Classifications

Flame Spread Index	Smoke-Developed Index	Class
0-25	0-450	A
26-75	0-450	B
76-200	0-450	C

IBC §803.1.1

Interior wall and ceiling finishes in the Building are limited to the classifications defined in Table 8 for specific rooms, spaces, and means of egress.

Table 8: Component Interior Finish Classifications

Component	Class
Exit Enclosures	B
Exit Access	B
Other Rooms/Enclosed Spaces	C

IBC Table 803.11

Interior floor finishes and covering materials shall comply with DOC FF-1 "Pill Test", in accordance with IBC §804.4.

Combustible decorative materials shall comply with NFPA 701 Flame Propagation Criteria, in accordance with IBC §806.4. Where combustible decorative materials are attached to a wall or ceiling the combustible materials shall not exceed 10 percent of the aggregate wall or ceiling area, in accordance with IBC §806.3.

Interior trim shall have a minimum flame spread and smoke-developed index equivalent to a Class C interior finish, in accordance with IBC §806.7.

Cellular or foamed plastics, where applied to a wall or ceiling, shall not exceed 10 percent of the aggregate wall or ceiling area, shall have a minimum 20 lb/ft^3 density, shall have a maximum ½ in. thickness and 4 in. width, and shall comply with the Class A or B interior finish requirements, in accordance with IBC §§ 806.5 and 2604.2.

7 MEANS OF EGRESS

7.1 General

Means of egress shall be designed and maintained to provide headroom (ceiling) with a minimum height of 90 inches above the walking surface with projections from the ceiling no less than 80 inches above the walking surface, in accordance with IBC §§ 1003.2 and 1003.3.

Walking surfaces in the means of egress shall be nominally level, having a slope no greater than 1 in 20, and shall have a slip-resistant surface, in accordance with IBC §1003.4. Where the walking surface has a change in elevation less than 12 in. the surface shall be sloped, and where the slope exceeds 1 in 20, a ramp shall be used, in accordance with IBC §1003.5. In addition, if the change in elevation is greater than 12 in. a ramp or stair shall be used, in accordance with IBC §1003.5. Guards shall be installed along open sides of means of egress that exceed 30 in. above the floor or ground below, in accordance with IBC §1015.2.

IBC §1003.7, elevators, escalators, and moving walks shall not be used as component of a required means of egress.

7.2 Egress Capacity

Means of egress components shall be sized using egress capacity factors defined in Table 9 to accommodate the occupant load for the building, floor, room, or space served.

Table 9: Egress Capacity Factors

Component	Factor (in./occupant)
Stairways	0.2
Other Egress Components	0.15

IBC §1005.3.2 Exception 1

7.3 Occupant Load

The occupant loads for the building, floors, rooms, and spaces are determined using the occupant load factors defined in Table 10, in accordance with IBC Table 1004.1.2.

Table 10: Occupant Load Factors

Occupancy or Use	Factor (ft^2/occupant)*
Assembly - Fixed Seats	# of Seats
Assembly - Concentrated	7 net
Assembly - Standing Space	5 net
Assembly - Unconcentrated	15 net
Business	100 gross
Classroom	20 net
Vocational Area	50 net
Exercise Rooms	50 gross
Library - Reading Rooms	50 net
Library – Stack Area	100 gross
Locker Room	50 gross
Storage | Mechanical (Accessory)	300 gross

*Unless specified otherwise

7.4 Number of Means of Egress & Separation

Means of egress serving a story or occupied roof shall have a minimum number of exits or access to exits dependent on the occupant load served, in accordance with Table 11.

Table 11: Minimum Number of Exits or Access to Exits per Story

Occupant Load (per Story)	Minimum # of Exits (per Story)
1-500	2
501-1,000	3
Greater than 1,000	4

IBC Table 1006.3.1

A minimum of two means of egress shall be accessible from every room or space where either the minimum required occupant load or common path of travel is exceeded, dependent on the occupancy or use, in accordance with Table 12.

Table 12: Spaces or Rooms Permitted to have One Exit or Exit Access Doorway

Occupancy or Use	Max. Occupant Load	Max. Common Path of Travel
Group B	49	100 ft.
Group A-3	49	75 ft.
Group S-2	29	100 ft.

IBC Table 1006.2.1

Where more than one exit, exit accesses, or exit discharges are required, they shall be arranged and separated to minimize the possibility of having more than one blocked by one fire or other emergency condition. Therefore, IBC §1007.1.1 Exception 2 requires the exits, exit accesses, or exit discharges to be separated a minimum distance, equal to one-third the overall maximum diagonal dimension of the building or space, measured in a straight line to the nearest edge of each means of egress component.

7.5 Travel, Common Path, & Dead-End Distances

Means of egress shall be arranged to provide exit access travel distances no greater than the distances defined in Table 13, in accordance with IBC Table 1017.2 regarding maximum travel distances, IBC §1020.4 regarding dead-end corridors, and IBC §§ 1006.2.1 and 1029.8 regarding common paths of travel.

Table 13: Maximum Exit Access Travel Distances

Occupancy or Use	Travel Distance (ft.)	Dead-End Corridor (ft.)	Common Path (ft.)
Business/Storage/Mech.	300	50	100
Assembly (Occupant Load ≥ 50)	250	20	30
Assembly (Occupant Load < 50)	250	20	75

7.6 Doors

Doors shall have a width no less than 32 inches or no less than the minimum egress width required to accommodate the occupant load served, calculated using the applicable egress capacity factor, whichever is greater, in accordance with IBC §1010.1.1. The maximum width of a swinging door leaf shall not exceed 48 inches (IBC §1010.1.1), and the minimum door height shall be no less than 80 inches above the walking surface (IBC §1010.1.1).

Egress doors shall be pivoted or side-hinged swinging type and shall swing in the direction of egress travel where serving an exit enclosure or an occupant load exceeding 49 occupants, in accordance with IBC §1010.1.2.1.

Doors serving an occupant load exceeding 49 shall not be provided with a latch or lock other than panic hardware or fire exit hardware (IBC §1010.1.10).

7.7 Stairs

Stairs shall conform to the dimensional requirements defined in Table 14, in accordance with IBC §1011.

Table 14: Stair Required Dimensions

Description	IBC
Minimum Width* (Occupant Load < 50)	36 in.
Minimum Width* (50 ≤ Occupant Load < 2,000)	44 in.
Minimum Width* (Occupant Load ≥ 2,000)	44 in.
Minimum Headroom	80 in.
Max. Height Between Landings	12 ft.
Minimum Tread Depth	11 in.
Riser Height (Min. - Max.)	4 in. - 7in.

*Unless the calculated egress capacity required is greater

7.8 Ramps

Ramps shall conform to the dimensional requirements defined in Table 15, in accordance with IBC §1012.

Table 15: Ramp Required Dimensions

Description	IBC
Minimum Width* (Occupant Load < 50)	36 in.
Minimum Width* (Occupant Load ≥ 50)	44 in.
Maximum Slope	1 in 12
Maximum Cross Slope	1 in 48
Maximum Single Run Rise	30 in.

*Unless the calculated egress capacity required is greater

7.9 Area of Refuge

Area of refuge are not required in buildings protected throughout with a supervised automatic sprinkler system, in accordance with IBC §1009.4 Exceptpion 2.

7.10 Corridors

Exit access corridors serving an occupant load less than 50 occupants shall have a minimum width of 36 inches, and where serving an occupant load equal to or greater than 50 occupants the minimum width shall be 44 inches, unless the calculated egress capacity is greater. (IBC §1020.2)

7.11 Handrails

Stairs, ramps, and stepped/ramped aisles shall be provided with handrails limited to a minimum height of 34 inches and a maximum height of 38 inches. The handrail shall be continuous without obstruction for the full length and shall terminate to a wall, guard, or walking surface. Where not continuous between flights, the handrail shall extend a minimum 12 inches horizontally beyond the top riser and shall continue to slope for the depth of one tread beyond the bottom riser. (IBC §1014)

The graspable portion of the handrail shall have a minimum diameter of 1¼ inches, a maximum diameter of 2 inches, shall have a minimum clearance of 2½ inches from a wall or guard, and shall not project into the required egress width more than 4½ inches. (IBC §1014)

Where the distance to a handrail exceeds 30 inches, an intermediate handrail shall be provided. (IBC §1014.9)

7.12 Guards

Guards are required along open-sided walking surfaces, including mezzanines and equipment platforms, stairs, ramps and landings that are located more than 30 inches to the floor or grade below. (IBC §1015.2)

Guards shall not be less than 42 inches in height measured from the walking surface, a line connecting the leading edges of stair tread nosings, or the ramp surface served, in accordance with IBC §1015.3.

Openings in guards shall prevent the passage of a 4-inch sphere from the walking surface up to the guard height, and from 36 inches to 42 inches in height, guards shall resist the passage of a 4-3/8-inch sphere, and the triangular openings formed between stair tread and risers and the guard shall resist the passage of a 6-inch sphere. (IBC §1015.4)

7.13 Assembly Seating

Assembly occupancies containing seating shall comply with the provisions defined in IBC §1029. The following requirements are specific to seating requiring the use of rows and aisles as an initial means of egress for occupants.

The egress capacity factors for aisles serving assembly seating shall comply with the requirements defined in IBC §1029.6.1, dependent on the dimensions of type of egress component, as defined in Table 16.

Table 16: Assembly Seating Egress Capacity Factors

Component/Dimension	Factor (in./occupant)
Stepped Aisle (Riser ≤ 7 in. | Tread ≥ 11 in.)	0.3
Stepped Aisle (Riser > 7 in.)	0.3 + 0.005 per 0.10 in. over 7 in.
Stepped Aisle (Distance to Handrail > 30 in.)	0.3 + 0.075 per 1 in. over 30 in
Ramped Aisle (Slope ≤ 8%)	0.20
Ramped Aisle (Slope > 8%)	0.22

IBC §1029.9 limits aisles to minimum widths specific to occupant loads, means of egress configuration, and means of egress components, in accordance with the following:

- Stepped aisles with seating on each side (occupant load > 50): 48 inches
- Stepped aisles with seating on each side (occupant load ≤ 50): 36 inches
- Stepped aisles with seating on one side: 36 inches
- Level or ramped aisles with seating on each side (occupant load > 50): 42 inches
- Level or ramped aisles with seating on each side (occupant load ≤ 50): 36 inches
- Level or ramped aisle with seating on each side (occupant load ≤ 14): 32 inches
- Level or ramped aisles with seating on one side: 36 inches
- Aisle subdivided by a handrail: 23 inches between handrail or guard and seating
- Aisle serving no more than 5 rows on one side: 23 inches between handrail or guard and seating

Aisle accessways are limited to minimum 12 inches, in accordance with IBC §1029.12.2:

Stepped and ramped aisles shall comply with the dimensions defined in Table 17, in accordance with IBC §1029.13.

Table 17: Stepped and Ramped Aisle Dimensional Requirements

Component	Dimension
Step – Min.Tread Depth	11 in.
Step – Min. Riser Height	4 in.
Step – Max. Riser Height	8 in.
Ramp – Max. Slope	12.5%
Ramp – Max. Slope (Accessible Route)	8%
Ramp – Min. Slope	5%
Ramp – Max. Cross Slope	2%

In addition, stepped aisle treads shall extend the full width of the aisle in accordance with IBC §1029.13.2.

Handrails required for stepped or ramped aisles shall comply with the handrail requirements in Code Summary Section 7.11, except where modified below, in accordance with IBC §1029.15.

- Aisles with seating on both sides, minimum 22-inch to maximum 36-inch gaps are permitted at intervals not exceeding 5 rows.
- Extensions are not required.

7.14 Means of Egress & Emergency Lighting

The means of egress shall be equipped with artificial lighting facilities to provide a continuous light intensity no less than 1 ft-candle at the walking service (IBC §1008.2.1).

In the event of power supply failure, emergency electrical system shall automatically illuminate all the following areas, in accordance with IBC §1008.3.

- Aisles and unenclosed egress stairways in rooms and spaces that require two or more means of egress.
- Corridors, interior exit stairs, ramps, aisles, and exit passageways.
- Exterior egress components at other than their levels of exit discharge until exit discharge.
- Vestibules and areas on the level of discharge used for exit discharge.
- Exterior landings required for exit discharge doorways that lead directly to the exit discharge.
- Electrical equipment rooms.
- Public restrooms with an area greater than 300 ft^2.
- Fire pump room.

The emergency power system shall provide power for a duration of not less than 90 minutes and shall consist of storage batteries, unit equipment, or an on-site generator (IBC §1008.3.4). The installation of the emergency power system shall be in accordance with IBC §2702.

Emergency lighting facilities shall be arranged to provide initial illumination that is at least an average of 1 ft-candle (11 lux) and a minimum 0.1 ft-candle (1 lux) measured at floor level along the path of egress. Illumination levels shall be permitted to decline to 0.6 ft-candle (6 lux) average and a minimum 0.06 ft-candle (0.6 lux) at the end of the emergency lighting time duration. A maximum-to-minimum illumination uniformity ratio of 40 to 1 shall not be exceeded. (IBC §1008.3.5)

7.15 Exit Signs

All rooms and spaces requiring more than one exit or exit access, the means of egress shall be indicated with approved exit signs reading "EXIT". Access to exits shall be marked by readily visible exit signs in cases where the exit or the path of egress travel is not immediately visible to the occupants. Exit sign placement shall be such that no point along the path of egress is more than 100 ft. from the nearest visible exit sign. (IBC §1013)

Exit signs shall be illuminated by a source providing not less than 5 ft-candles at the illuminated surface (IBC §1013.6.2). Exit signs shall be connected to emergency power or local batteries to assure continued illumination for at least 90 minutes in conditions of primary power loss (IBC §1013.6.3).

7.16 Exit Discharge

Exits shall discharge directly to the exterior of the building, at grade or shall provide direct access to grade, and shall not re-enter the building. The exit discharge shall provide a direct and unobstructed access to a public way. (IBC §1028.1)

According to IBC §1028.1 Exception1, a maximum of 50 percent of the number and required capacity of interior exit stairways and ramps is permitted to discharge into the interior of the building on the level of exit discharge provided all the following are met:

- A free and unobstructed path of travel to an exterior exit door is readily visible and identifiable from the point of termination of the enclosure.
- The entire area of the level of exit discharge is separated from areas below by construction conforming to the fire-resistance rating for the enclosure.
- The egress path from the point of termination of the enclosure on the level of exit discharge is protected throughout by an automatic sprinkler system.

8 FIRE PROTECTION & LIFE SAFETY SYSTEMS

8.1 Detection, Alarm, and Communications Systems

IBC §907.2.1.1 requires an emergency voice/alarm communication (EVAC) system that is designed and installed in accordance with NFPA 72 and IBC §907.5.2.2. This requirement is based on the Building consisting of a Group A occupancy and an occupant load exceeding 1,000 occupants.

The EVAC system shall initiate an alarm signal as an audible prerecorded voice message upon activation of a single manual fire alarm box located in an approved location, detection of sprinkler water flow, or a system smoke detector, where applicable. Automatic smoke detection is not required throughout the Building, except where required for panel protection in accordance with IBC §907.4.1 and emergency control functions, such as elevator recall and door release.

Duct smoke detectors shall be provided in ducts in accordance with the IMC, where the air handler is rated greater than 2,000 cfm, and shall be connected to the building EVAC system. Initiation of a duct detector shall activate a supervisory signal at the fire alarm control unit (FACU).

The Building automatic sprinkler system and fire pump shall be supervised by the EVAC system.

8.2 Two-Way Emergency Communication Systems

IBC §1009.8 requires a two-way emergency communication system to be provided at each elevator lobby on each level, except the level of exit discharge. The two-way emergency communication system risers shall be provided with Level 2 survivability (i.e., 2-hour cable systems) and shall communicate with a central control point. Instructions explaining the use of the system and written identification of the location shall be posted adjacent to the two-way emergency communication system at each elevator landing. The signage visual characters shall comply with ICC A117.1. The system shall include both audible and visible signals

8.3 Automatic Sprinkler Systems

IBC §903.2.1.3 requires the building to be protected throughout with a supervised automatic sprinkler system in accordance with NFPA 13. The automatic sprinkler systems shall be wet-pipe, unless areas requiring protection are subject to temperatures less than 40°F, then a dry-pipe sprinkler system shall be installed.

8.4 Standpipe Systems

A manual or automatic wet Class I standpipe system shall be provided throughout the Building in accordance with NFPA 14. The standpipe system is required based on the Building having an occupied story greater than 30 feet above the lowest level of fire department vehicle access, in accordance with IBC §905.3.1.

The standpipe system shall be designed to deliver a minimum 250 gpm at 100 psi to the two most hydraulically remote hose connections plus an additional 250 gpm for each additional standpipe for a total flow demand not to exceed 1,000 gpm. The Building is served by two exit stair enclosures; therefore, the standpipe system flow demand shall be a minimum 750 gpm.

Where an automatic standpipe system is provided, the Building fire pump shall have a rated pressure and flow capable of supplying the standpipe system's greatest hydraulic demand.

Where a manual standpipe system is provided, the Building fire pump is not required to supply the demand of the standpipe system, instead the fire pump, if required, shall have a rated pressure and flow capable of supplying the greatest automatic sprinkler system hydraulic demand. The Building's fire protection water supply shall be supplemented by the responding fire department's pumper truck through the Building's fire department connection (FDC). A sign shall be provided at the FDC stating the pressure and flow required at the FDC inlets to provide the standpipe system hydraulic demand.

8.5 Fire Pump

If a manual standpipe system is provided and the municipal water supply can adequately supply the greatest automatic sprinkler system hydraulic demand, a fire pump is not required.

In the case where a manual standpipe system is provided and the municipal water supply cannot adequately supply the greatest automatic sprinkler system hydraulic demand, a fire pump is required and shall have a rated pressure and flow able to provide the greatest automatic sprinkler system hydraulic demand.

Where an automatic standpipe system is provided a fire pump is required to have a minimum flow and pressure rating capable of satisfying the standpipe system's greatest hydraulic demand.

The fire pump and associated features shall be designed and installed in accordance with NFPA 20, and located in a minimum 1-hour fire-resistance rated room with access directly to the outside or through a minimum 1-hour fire-resistance rated enclosed passageway leading to the outside.

8.6 Portable Fire Extinguishers

IBC §906.1 requires portable fire extinguishers to be located throughout the building in accordance with NFPA 10.

8.7 Elevators & Conveying Systems

IBC §3001.2 requires elevators and conveying systems to comply with ASME A17.1, including the fire fighter's emergency operations.

Where four elevator cars serve all or a portion of a building, the elevators shall be located in no fewer than two separate hoistways, and where more than four elevator cars, not more than four elevators shall be located in a hoistway (IBC §3002.2).

Elevator hoistways shall not be located within a common enclosure with stairways, nor shall an elevator open into a stair enclosure (IBC §3002.7).

8.8 Standby & Emergency Power

IBC §2702 requires the standby power electrical components, equipment, and systems to by designed and constructed in accordance with the IFC, NFPA 70, NFPA 110, and NFPA 111. The standby power system shall have capacity and a rating sufficient to supply power to all required equipment, including:

- Electric fire pump, if provided
- Jockey pump, if provided
- Air compressor serving dry-pipe and pre-action systems, if provided
- Elevators
- Means of egress illumination
- Exit signs
- Emergency voice/alarm communication system

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TAHLEQUAH, OKLAHOMA

KEY PLAN:

PROJECT PHASE:

95% CONSTRUCTION DOCUMENTS

REVISIONS		
#	DATE	DESCRIPTION

DATE: 07/26/19

JOB NUMBER: 17-13

SHEET NUMBER:

ALS.000

LIFE SAFETY CODE COMPLIANCE INFORMATION

KEYED NOTES:

1. STRUCTURAL MEMBERS SUPPORTING EXIT STAIRS THAT ARE EITHER LOCATED OUTSIDE OF THE RATED ENCLOSURE OR PENETRATING THROUGH THE RATED ENCLOSURE SHALL BE PROTECTED WITH MINIMUM 2-HOUR FIRE-RESISTANCE RATING. REFER TO STRUCTURAL DRAWINGS FOR STRUCTURAL MEMBERS REQUIRING FIREPROOFING.

LIFE SAFETY LEGEND

- 1 HOUR FIRE BARRIER
- 2 HOUR FIRE BARRIER

OCCUPANCY	OCCUPANCY LEGEND	AREA (SQ. FT.)	OCCUPANT FACTOR (PERSON/SQ.FT.)	OCCUPANT LOAD
ASSEMBLY		70 SQ. FT.	1/15	5
BUSINESS		6,373 SQ. FT.	1/100	64
CLASSROOM		1,842 SQ. FT.	1/20	93
STORAGE		2,037 SQ. FT.	1/300	7
TOTAL		10,322 SQ. FT.		169

BASEMENT EXIT NAME	WIDTH (INCHES)		LIMITING FACTOR DOOR-STAIR	WIDTH FACTOR INCH/PERSON		OCCUPANT CAPACITY
	DOOR	STAIR		DOOR	STAIR	
EXIT B-1	45(-2)	64	287-320	0.15	0.2	286
EXIT B-2	72(-4)	N/A	453-N/A	0.15	N/A	453
EXIT B-3	72(-4)	N/A	453-N/A	0.15	N/A	453
EXIT B-4	36(-2)	52	226-260	0.15	0.2	226
					TOTAL	1,418

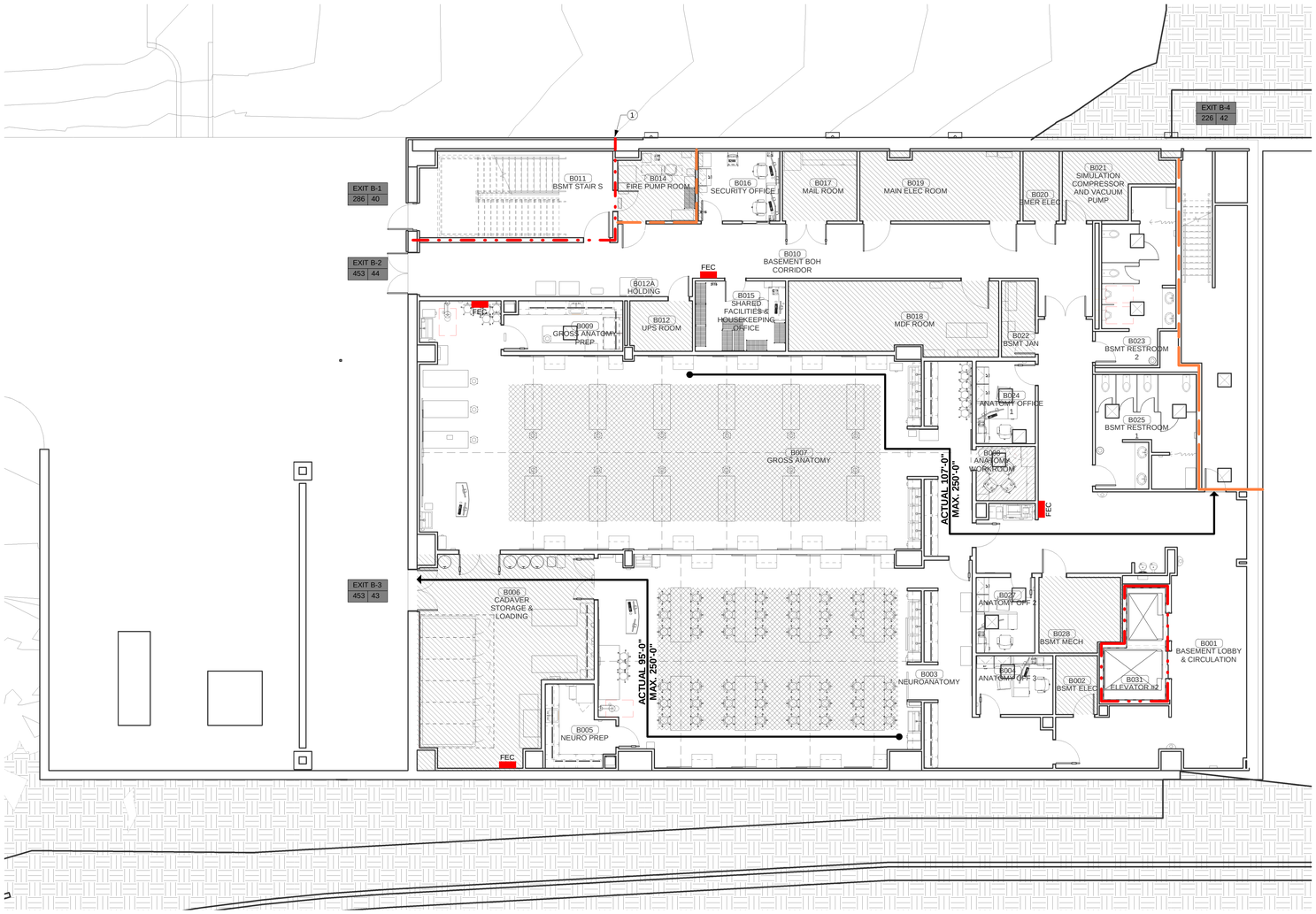
EXIT NAME	
EXIT CAPACITY	OCCUPANTS USING EXIT

ACTUAL X'-X" / MAX. X'-X" — DEAD-END CORRIDOR

ACTUAL X'-X" / MAX. X'-X" — COMMON PATH OF TRAVEL

ACTUAL X'-X" / MAX. X'-X" — EXIT ACCESS TRAVEL DISTANCE

FEC — FIRE EXTINGUISHER CABINET



TRUE N PLAN

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

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KEY PLAN:

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REVISIONS

#	DATE	DESCRIPTION

DATE: 07/26/19

JOB NUMBER: 17-13

SHEET NUMBER:

ALS.100

LIFE SAFETY PLAN - BASEMENT

KEYED NOTES:

1. STRUCTURAL MEMBERS SUPPORTING EXIT STAIRS THAT ARE EITHER LOCATED OUTSIDE OF THE RATED ENCLOSURE OR PENETRATING THROUGH THE RATED ENCLOSURE SHALL BE PROTECTED WITH MINIMUM 2-HOUR FIRE-RESISTANCE RATING. REFER TO STRUCTURAL DRAWINGS FOR STRUCTURAL MEMBERS REQUIRING FIREPROOFING.

LIFE SAFETY LEGEND

	1 HOUR FIRE BARRIER
	2 HOUR FIRE BARRIER

OCCUPANCY	OCCUPANCY LEGEND	AREA (SQ. FT.)	OCCUPANT FACTOR (PERSON/SQ.FT.)	OCCUPANT LOAD
ASSEMBLY		2,290 SQ. FT.	1/15	153
BUSINESS		14,127 SQ. FT.	1/100	142
CLASSROOM		5,268 SQ. FT.	1/20	264
EXCERCISE/LOCKER		1,814 SQ. FT.	1/50	37
STORAGE		1,351 SQ. FT.	1/300	5
TOTAL		24,850 SQ. FT.		601

LEVEL 1 EXIT NAME	WIDTH (INCHES)		LIMITING FACTOR DOOR-STAIR	WIDTH FACTOR INCHPERSON		OCCUPANT CAPACITY
	DOOR	STAIR		DOOR	STAIR	
EXIT 1-1	78	N/A	520-N/A	0.15	N/A	520
EXIT 1-2	36(-2)	N/A	226-N/A	0.15	N/A	226
EXIT 1-3	36(-2)	52	226-260	0.15	0.2	226
L1 STAIR N	45(-2)	64	286-320	0.15	0.2	286
L1 STAIR S	45(-2)	64	286-320	0.15	0.2	286
					TOTAL	1,544

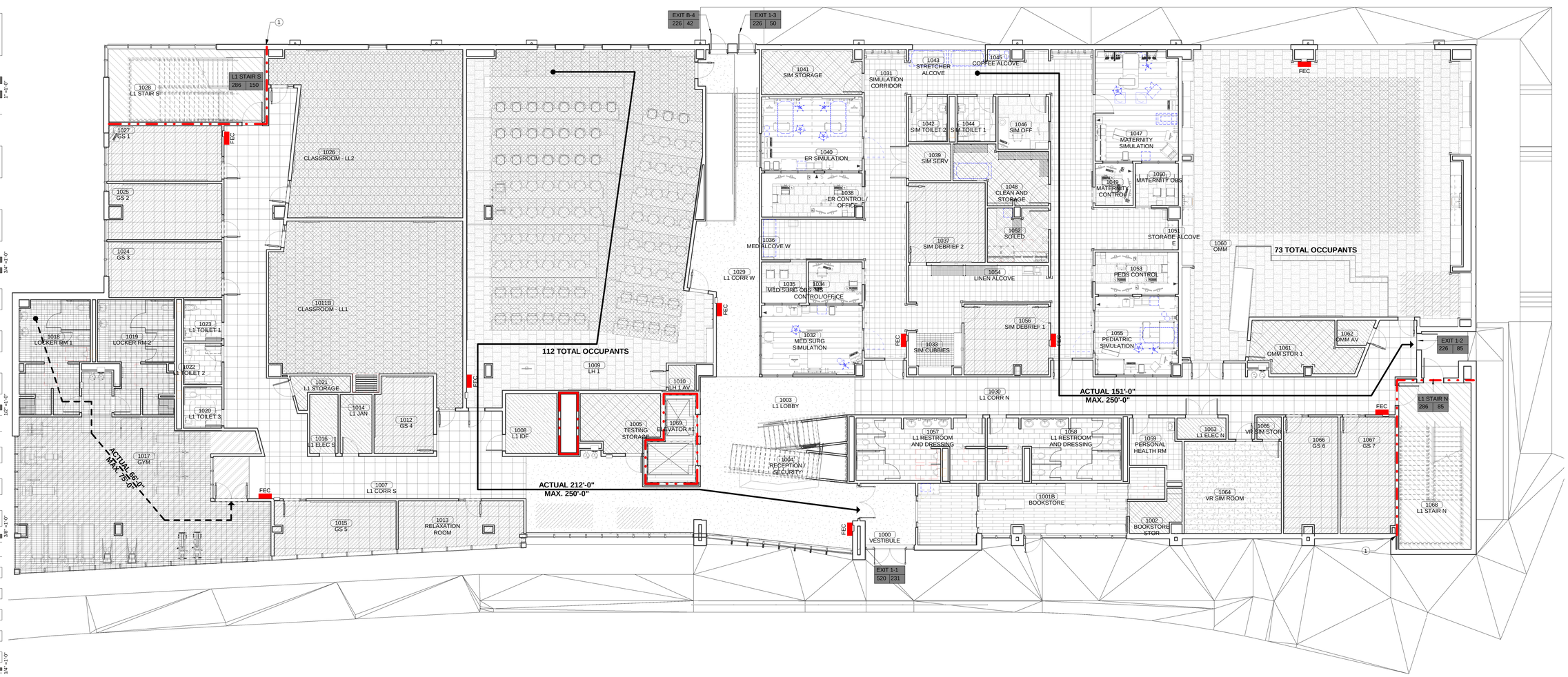
EXIT NAME	
EXIT CAPACITY	OCCUPANTS USING EXIT

ACTUAL X'-X" / MAX. X'-X" — DEAD-END CORRIDOR

ACTUAL X'-X" / MAX. X'-X" — COMMON PATH OF TRAVEL

ACTUAL X'-X" / MAX. X'-X" — EXIT ACCESS TRAVEL DISTANCE

FEC — FIRE EXTINGUISHER CABINET



TRUE N PLAN N

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

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THE CHEROKEE NATION — SEPT. 6, 1839

COLLEGE OF Osteopathic Medicine AT THE CHEROKEE NATION

TAHLEQUAH, OKLAHOMA

KEY PLAN:

PROJECT PHASE:

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REVISIONS

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JOB NUMBER: 17-13

SHEET NUMBER:

ALS.110

LIFE SAFETY PLAN - LEVEL 1

KEYED NOTES:

1. STRUCTURAL MEMBERS SUPPORTING EXIT STAIRS THAT ARE EITHER LOCATED OUTSIDE OF THE RATED ENCLOSURE OR PENETRATING THROUGH THE RATED ENCLOSURE SHALL BE PROTECTED WITH MINIMUM 2-HOUR FIRE-RESISTANCE RATING. REFER TO STRUCTURAL DRAWINGS FOR STRUCTURAL MEMBERS REQUIRING FIREPROOFING.

LIFE SAFETY LEGEND

- 1 HOUR FIRE BARRIER
- 2 HOUR FIRE BARRIER

OCCUPANCY	OCCUPANCY LEGEND	AREA (SQ. FT.)	OCCUPANT FACTOR (PERSON/SQ.FT.)	OCCUPANT LOAD
ASSEMBLY		2,163 SQ. FT.	1/15	145
BUSINESS		15,973 SQ. FT.	1/100	160
CLASSROOM		5,000 SQ. FT.	1/20	250
STORAGE		1,214 SQ. FT.	1/300	5
TOTAL		24,350 SQ. FT.		560

LEVEL 2 EXIT NAME	WIDTH (INCHES)		LIMITING FACTOR DOOR-STAIR	WIDTH FACTOR INCH/PERSON		OCCUPANT CAPACITY
	DOOR	STAIR		DOOR	STAIR	
L2 STAIR N	45(-2)	64	286-320	0.15	0.2	286
L2 STAIR S	45(-2)	64	286-320	0.15	0.2	286
					TOTAL	572

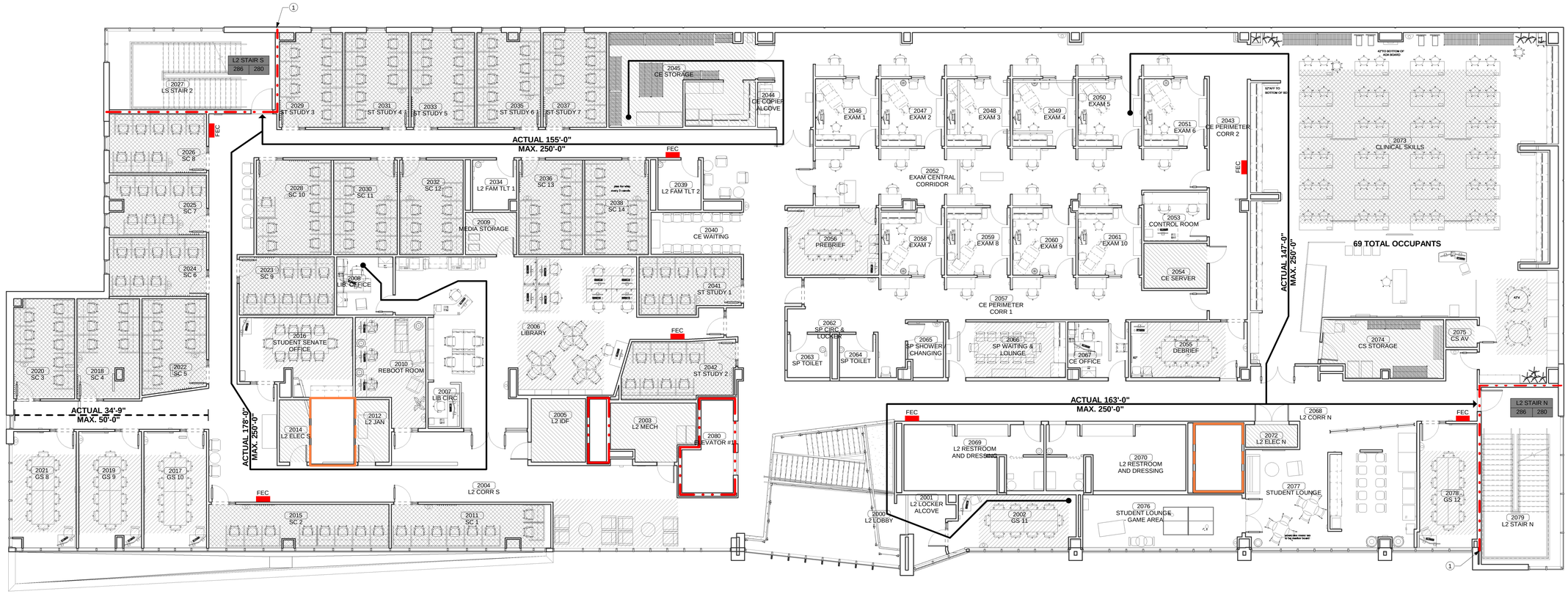
EXIT NAME	
EXIT CAPACITY	OCCUPANTS USING EXIT

ACTUAL X'-X" / MAX. X'-X" — DEAD-END CORRIDOR

ACTUAL X'-X" / MAX. X'-X" — COMMON PATH OF TRAVEL

ACTUAL X'-X" / MAX. X'-X" — EXIT ACCESS TRAVEL DISTANCE

FEC — FIRE EXTINGUISHER CABINET



TRUE N / PLAN N

1 LIFE SAFETY PLAN LEVEL 2
1/8" = 1'-0"

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COLLEGE OF Osteopathic Medicine AT THE CHEROKEE NATION

TAHLEQUAH, OKLAHOMA

KEY PLAN:

PROJECT PHASE:

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#	DATE	DESCRIPTION

DATE: 07/26/19

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SHEET NUMBER:

ALS.120

LIFE SAFETY PLAN - LEVEL 2

KEYED NOTES:

1. STRUCTURAL MEMBERS SUPPORTING EXIT STAIRS THAT ARE EITHER LOCATED OUTSIDE OF THE RATED ENCLOSURE OR PENETRATING THROUGH THE RATED ENCLOSURE SHALL BE PROTECTED WITH MINIMUM 2-HOUR FIRE-RESISTANCE RATING. REFER TO STRUCTURAL DRAWINGS FOR STRUCTURAL MEMBERS REQUIRING FIREPROOFING.

LIFE SAFETY LEGEND

	1 HOUR FIRE BARRIER
	2 HOUR FIRE BARRIER

OCCUPANCY	OCCUPANCY LEGEND	AREA (SQ. FT.)	OCCUPANT FACTOR (PERSON/SQ.FT.)	OCCUPANT LOAD
ASSEMBLY		1,046 SQ. FT.	1/15	70
BUSINESS		18,417 SQ. FT.	1/100	185
CLASSROOM		4,099 SQ. FT.	1/20	205
STORAGE		788 SQ. FT.	1/300	3
TOTAL		24,350 SQ. FT.		463

LEVEL 3 EXIT NAME	WIDTH (INCHES)		LIMITING FACTOR DOOR-STAIR	WIDTH FACTOR INCHPERSON		OCCUPANT CAPACITY
	DOOR	STAIR		DOOR	STAIR	
L3 STAIR S	45(-2)	64	286-320	0.15	0.2	286
L3 STAIR N	45(-2)	64	286-320	0.15	0.2	286
					TOTAL	572

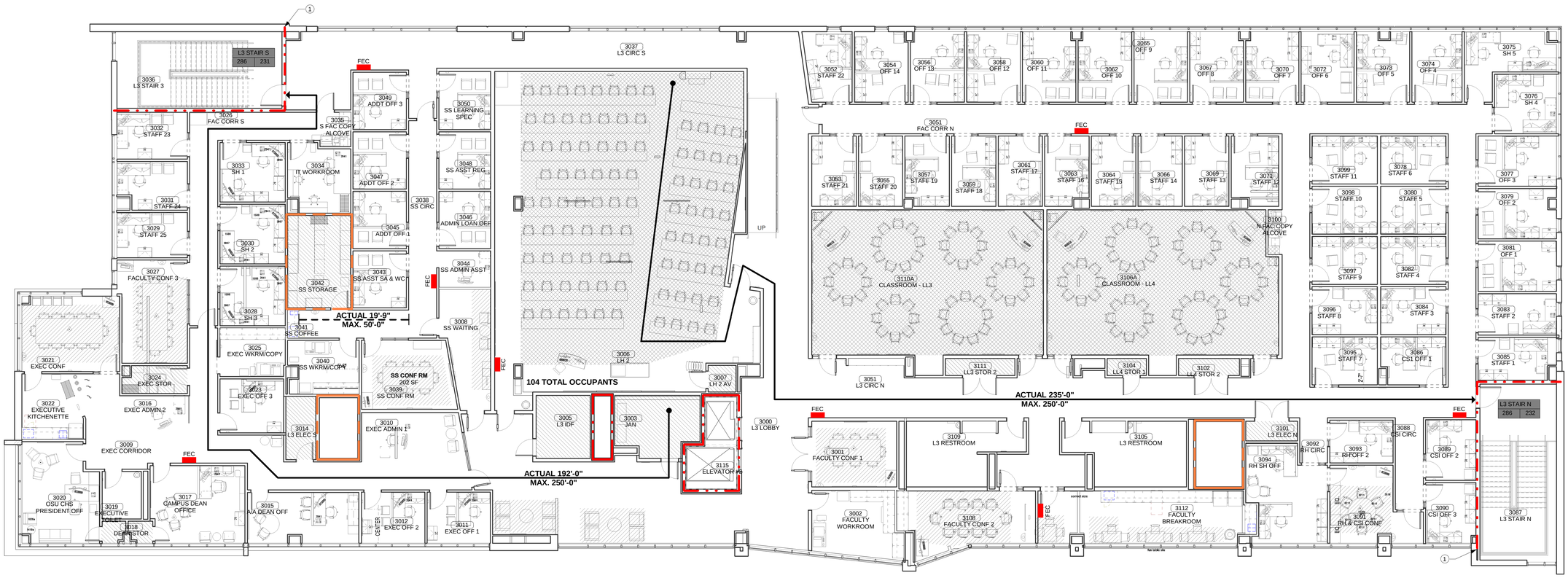
EXIT NAME	
EXIT CAPACITY	OCCUPANTS USING EXIT

ACTUAL X'-X" / MAX. X'-X" — DEAD-END CORRIDOR

ACTUAL X'-X" / MAX. X'-X" — COMMON PATH OF TRAVEL

ACTUAL X'-X" / MAX. X'-X" — EXIT ACCESS TRAVEL DISTANCE

FEC — FIRE EXTINGUISHER CABINET



TRUE N PLAN N

1 LIFE SAFETY PLAN LEVEL 3
1/8" = 1'-0"

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07/26/19	17-13

SHEET NUMBER:

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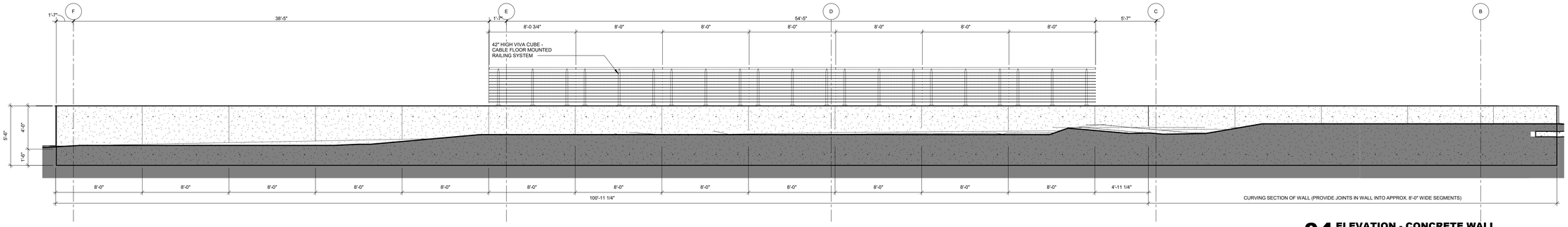
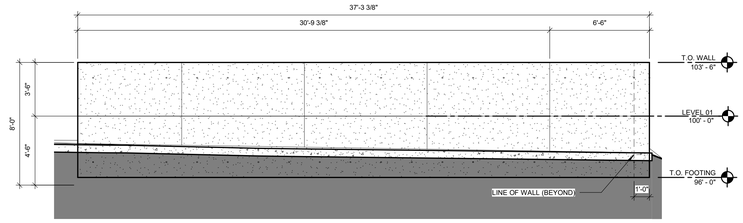
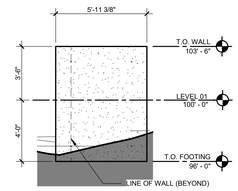
LIFE SAFETY PLAN - LEVEL 3



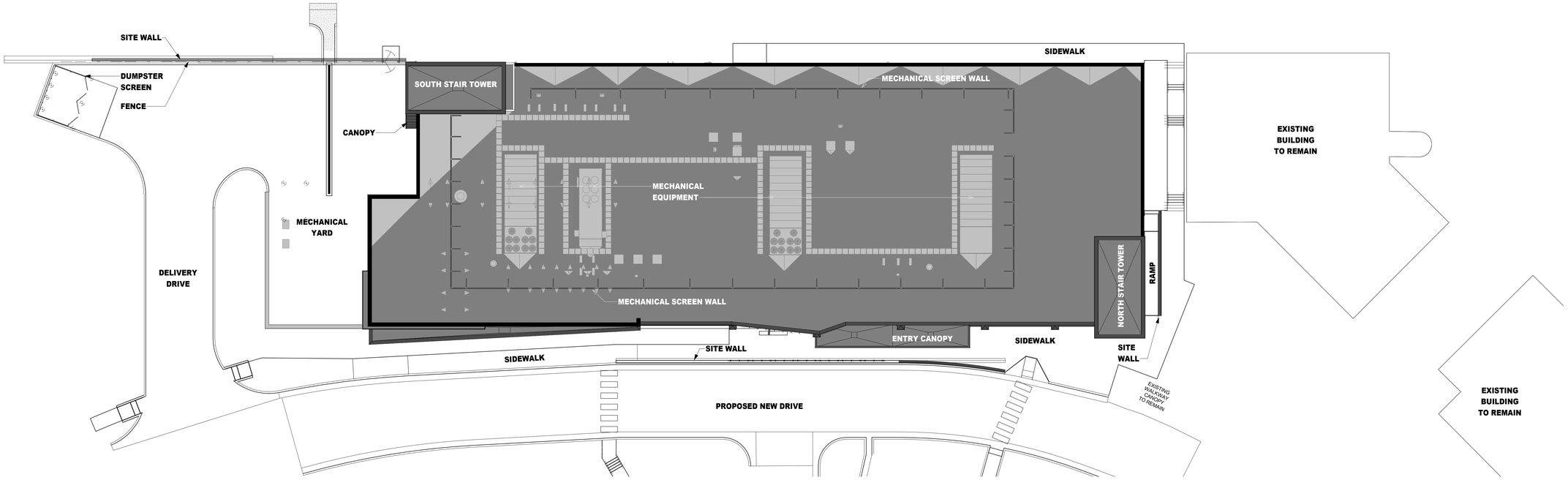
04 ELEVATION - CONCRETE WALL
1/4" = 1'-0"



03 ELEVATION - CONCRETE WALL
1/4" = 1'-0"



02 ELEVATION - CONCRETE WALL
1/4" = 1'-0"



01 SITE PLAN
1/16" = 1'-0"

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#	DATE	DESCRIPTION

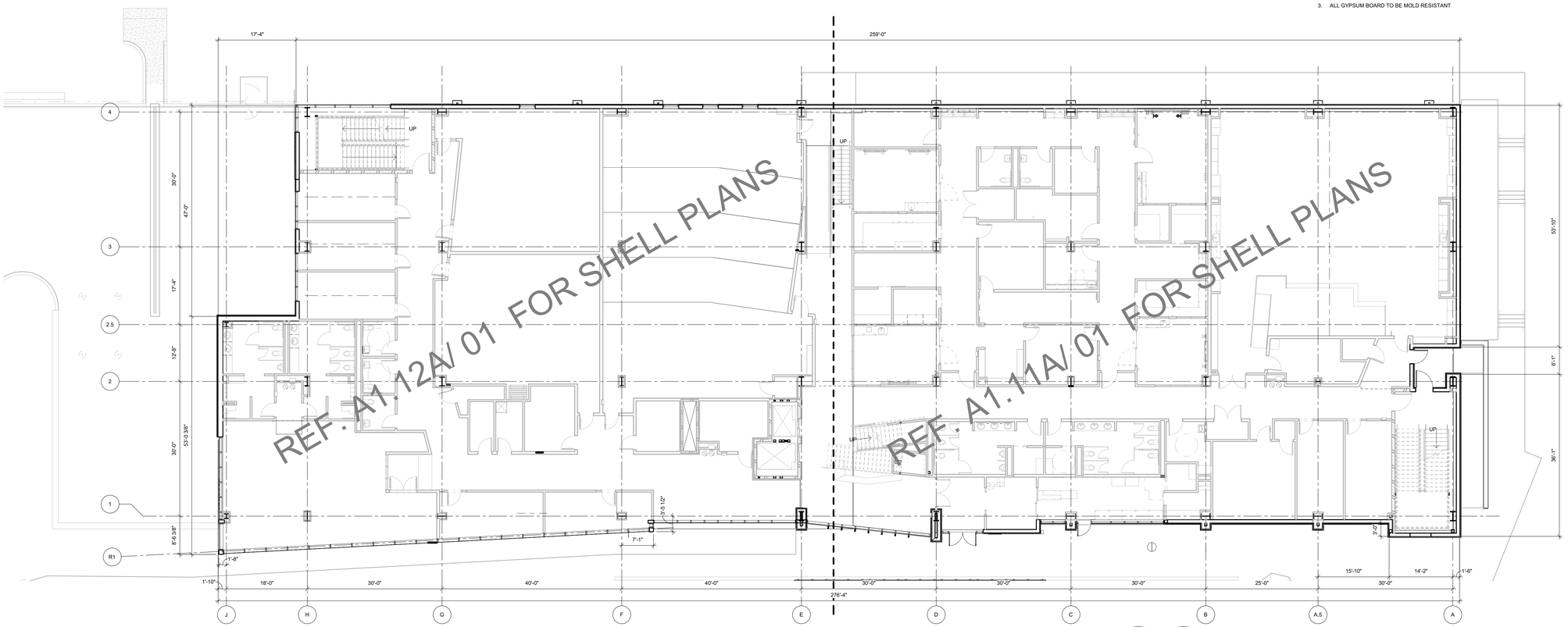
DATE:	JOB NUMBER:
07-15-19	17-13

SHEET NUMBER:
AS.01

SITE PLAN / DETAILS

GENERAL NOTES - FLOOR PLAN

1. ALL EXTERIOR DIMENSIONS ARE FROM FACE OF EXTERIOR STUD, U.N.O
2. REFER TO SHEET A2.00 - A2.01 FOR PARTITION TYPES AND FRAMING DETAILS
3. ALL GYPSUM BOARD TO BE MOLD RESISTANT



PLAN NORTH TRUE NORTH

02 OVERALL FLOOR PLAN - LEVEL 01
3/32" = 1'-0"

PLAN NORTH TRUE NORTH

01 OVERALL FLOOR PLAN - BASEMENT LEVEL
3/32" = 1'-0"

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KEY PLAN:

02 01

PROJECT PHASE:
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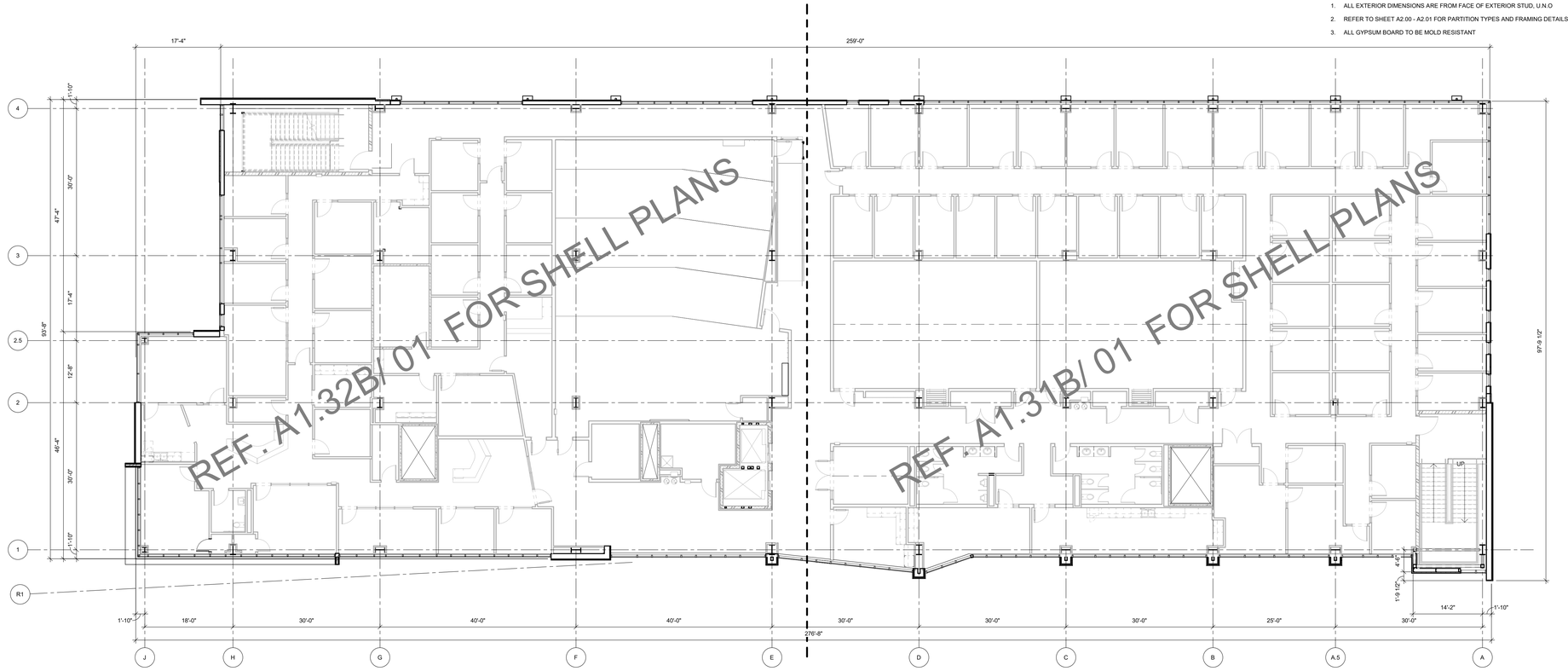
#	DATE	DESCRIPTION

DATE: 07/15/19
JOB NUMBER: 17-13
SHEET NUMBER: A1.00

OVERALL FLOOR PLANS

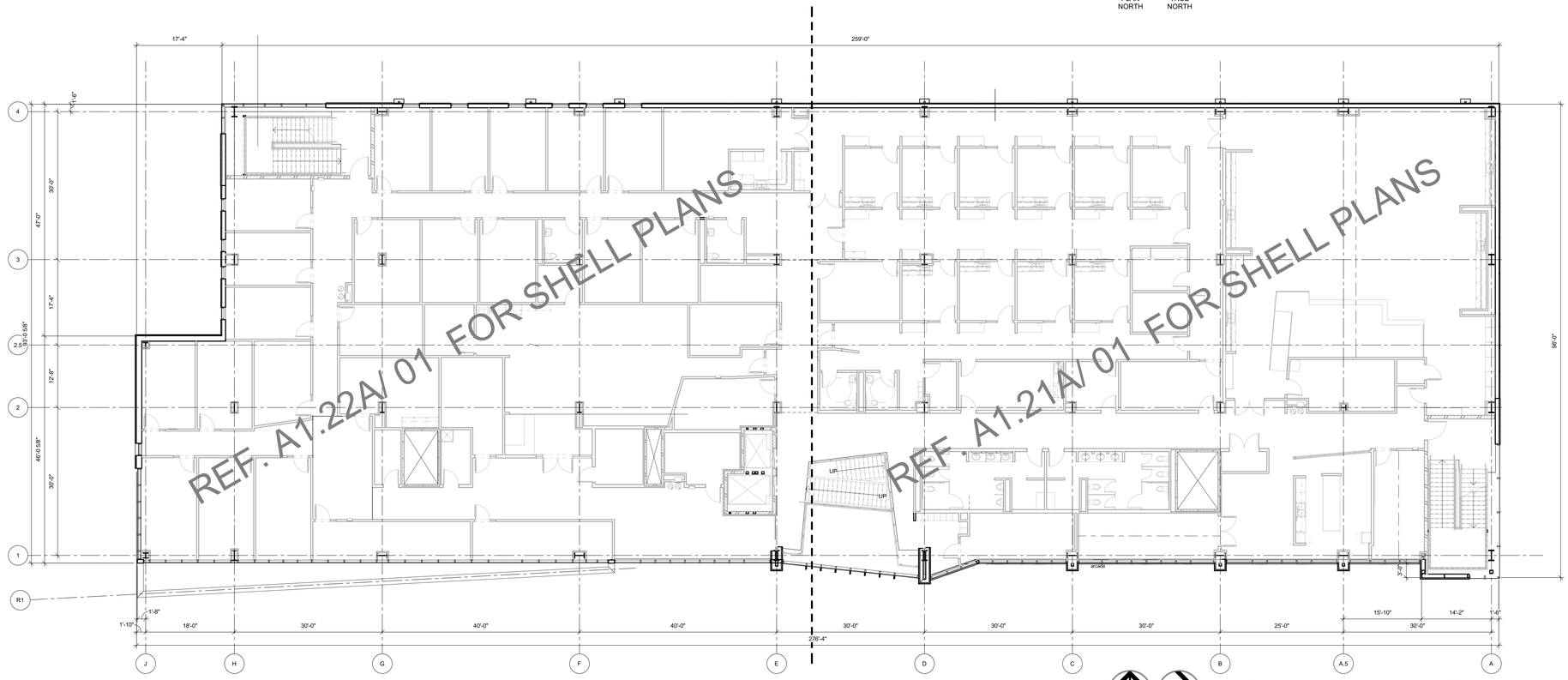
GENERAL NOTES - FLOOR PLAN

1. ALL EXTERIOR DIMENSIONS ARE FROM FACE OF EXTERIOR STUD, U.N.O
2. REFER TO SHEET A2.00 - A2.01 FOR PARTITION TYPES AND FRAMING DETAILS
3. ALL GYPSUM BOARD TO BE MOLD RESISTANT



PLAN NORTH TRUE NORTH

02 OVERALL FLOOR PLAN - LEVEL 03
3/32" = 1'-0"



PLAN NORTH TRUE NORTH

01 OVERALL FLOOR PLAN - LEVEL 02
3/32" = 1'-0"

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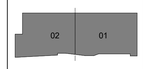
TAHLEQUAH, OKLAHOMA

KEY PLAN:



PROJECT PHASE:

95% CONSTRUCTION DOCUMENTS

REVISIONS

#	DATE	DESCRIPTION

DATE:	JOB NUMBER:
07/15/19	17-13

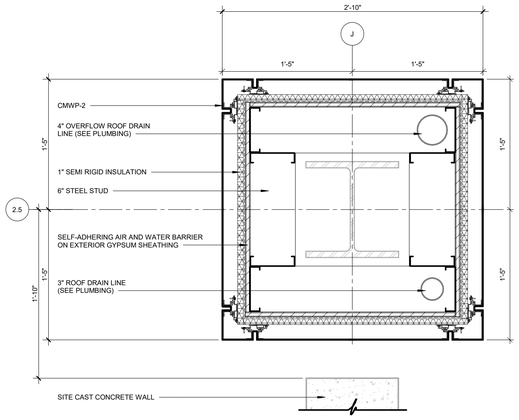
SHEET NUMBER:

A1.01

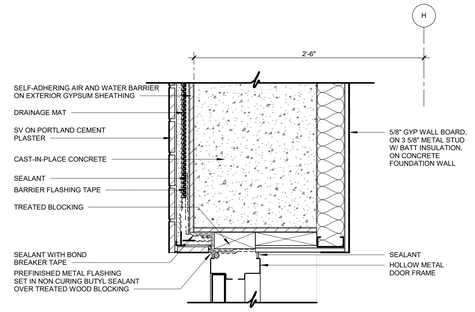
OVERALL FLOOR PLANS

GENERAL NOTES - FLOOR PLAN

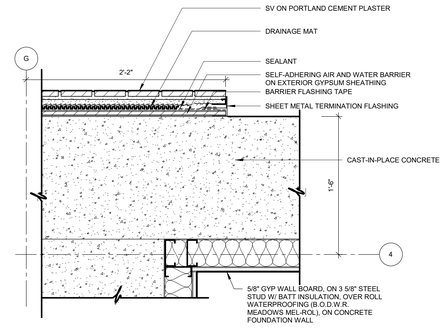
1. ALL EXTERIOR DIMENSIONS ARE FROM FACE OF EXTERIOR STUD, U.N.O
2. REFER TO SHEET A2.00 - A2.01 FOR PARTITION TYPES AND FRAMING DETAILS
3. ALL GYPSUM BOARD TO BE MOLD RESISTANT



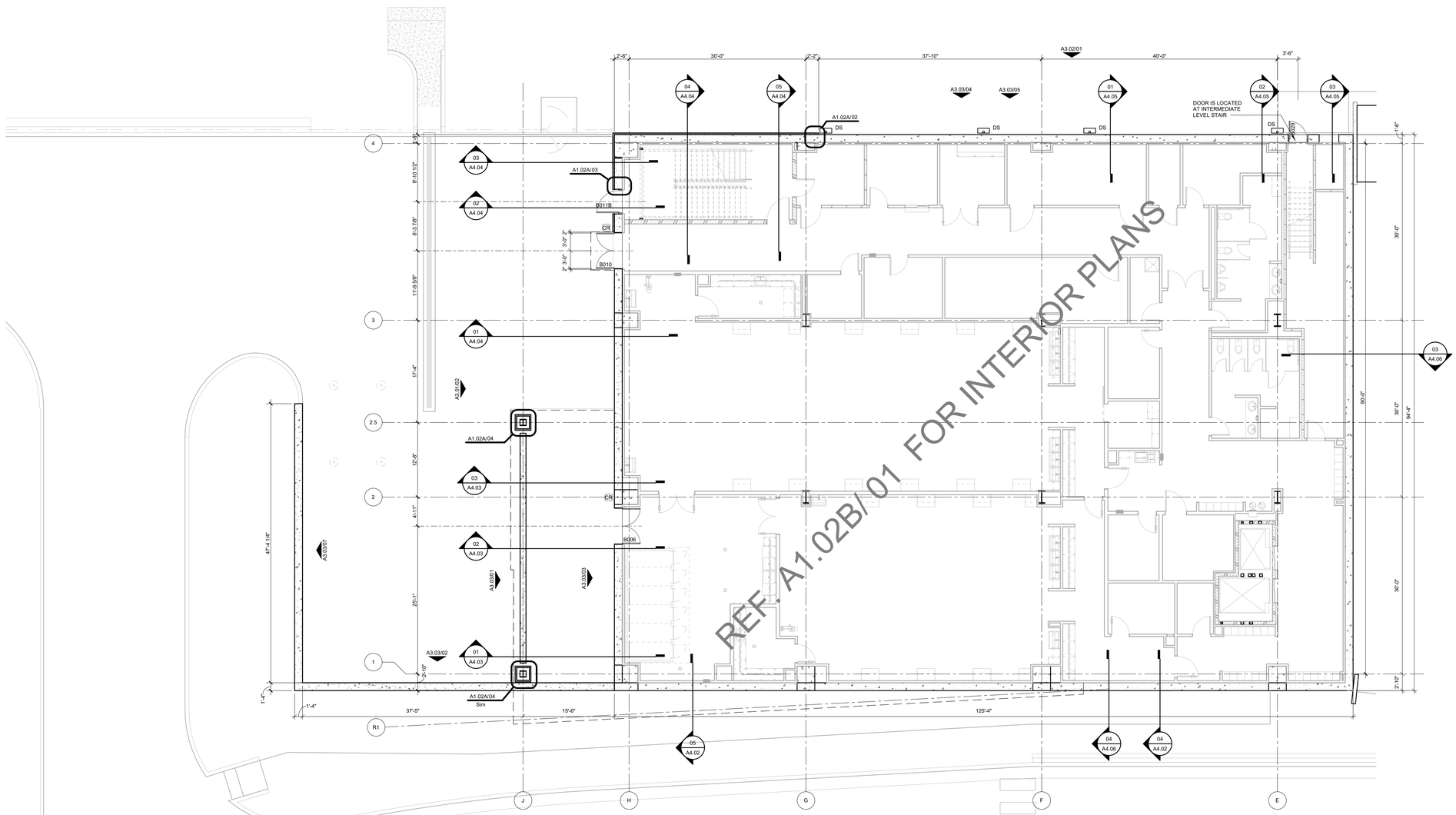
04 PLAN DETAIL
1 1/2" = 1'-0"



03 PLAN DETAIL
1 1/2" = 1'-0"



02 PLAN DETAIL
1 1/2" = 1'-0"



PLAN NORTH

TRUE NORTH

01 FLOOR PLAN BASEMENT LEVEL SECTOR 02 - SHELL
1/8" = 1'-0"

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45 South 4th Street
Fort Smith, AR 72901
479-783-2480
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PROFESSIONAL SEAL:

CONSULTANT LOGO:

CLIENT:

College of Osteopathic Medicine
AT THE CHEROKEE NATION
TAHLEQUAH, OKLAHOMA

KEY PLAN:

02 01

PROJECT PHASE:
95% CONSTRUCTION DOCUMENTS

REVISIONS

#	DATE	DESCRIPTION

DATE:	JOB NUMBER:
07-15-19	17-13

SHEET NUMBER:
A1.02A

FLOOR PLAN BASEMENT LEVEL SECTOR 02 SHELL

GENERAL NOTES - FLOOR PLAN

1. ALL EXTERIOR DIMENSIONS ARE FROM FACE OF EXTERIOR STUD, U.N.O
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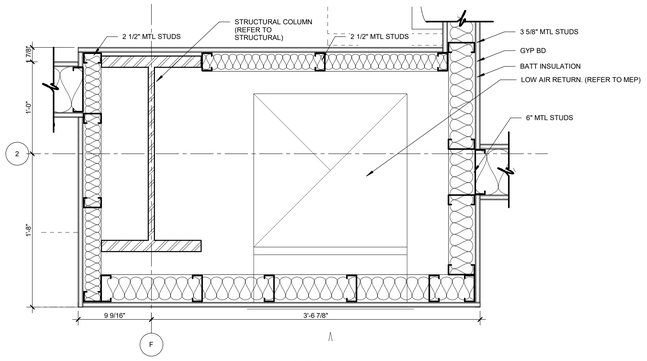
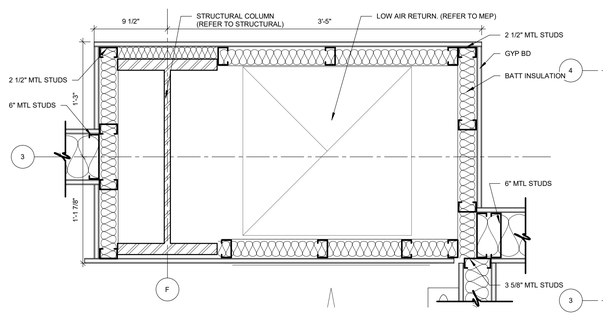
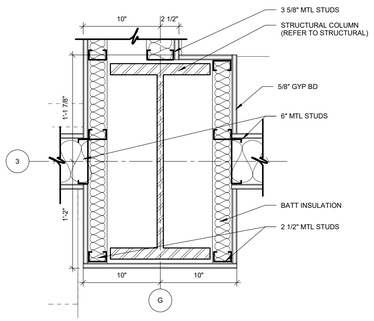


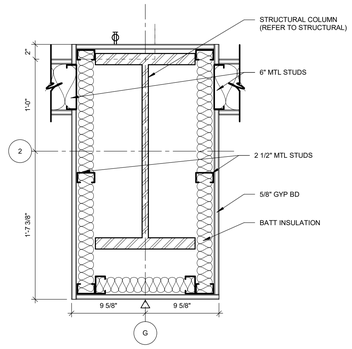
05 PLAN DETAIL @ COLUMN
1 1/2" = 1'-0"



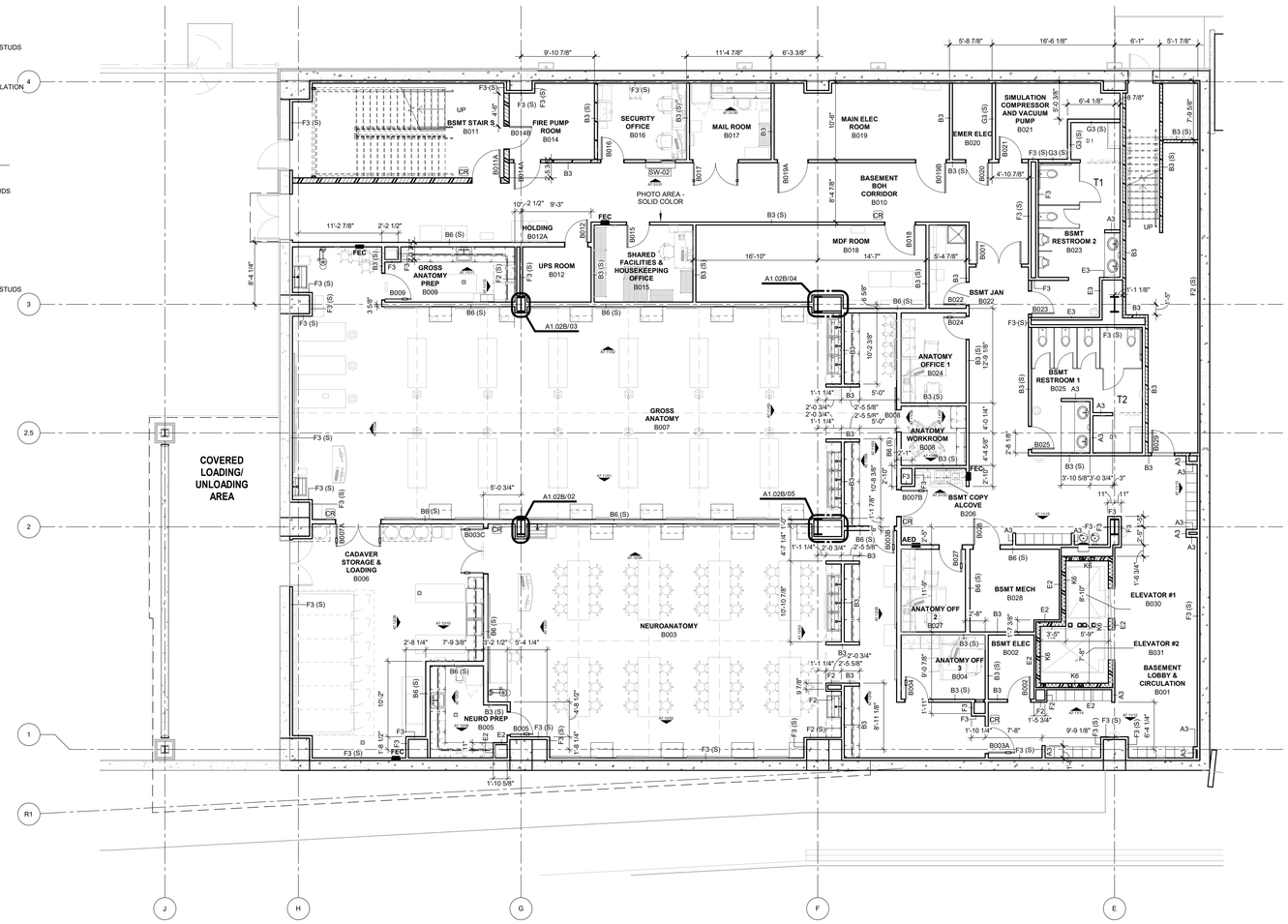
04 PLAN DETAIL @ COLUMN
1 1/2" = 1'-0"



03 PLAN DETAIL @ COLUMN
1 1/2" = 1'-0"



02 PLAN DETAIL @ COLUMN
1 1/2" = 1'-0"



PLAN NORTH
TRUE NORTH

01 FLOOR PLAN BASEMENT LEVEL SECTOR 02
1/8" = 1'-0"

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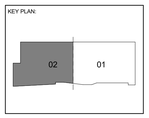

PROJECT PHASE:
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REVISIONS:

#	DATE	DESCRIPTION

DATE:	JOB NUMBER:
07-26-19	17-13

SHEET NUMBER:
A1.02B

FLOOR PLAN BASEMENT LEVEL SECTOR 02

GENERAL NOTES - FLOOR PLAN

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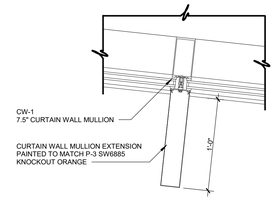

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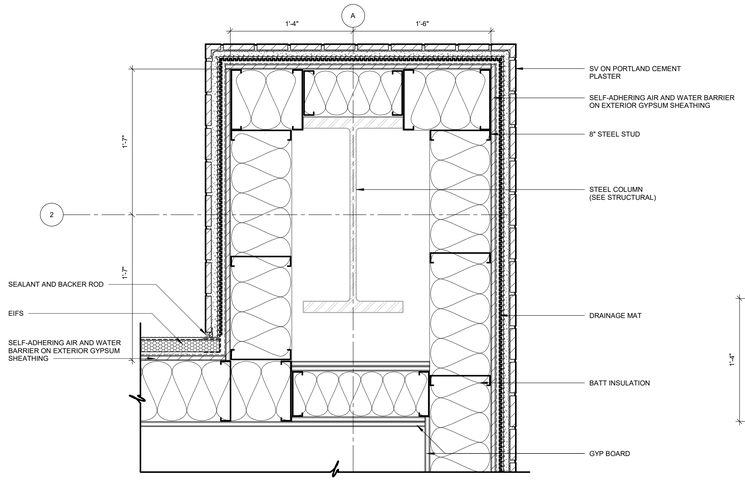
1 1/2" = 1'-0"



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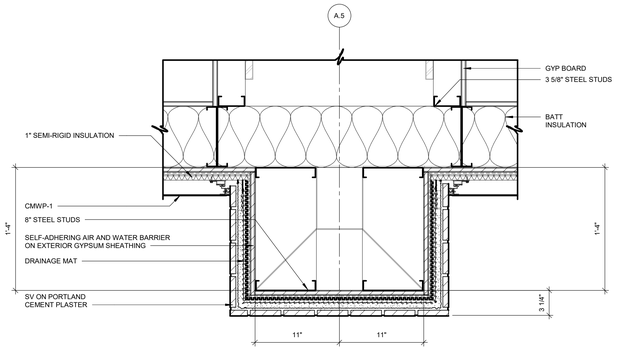
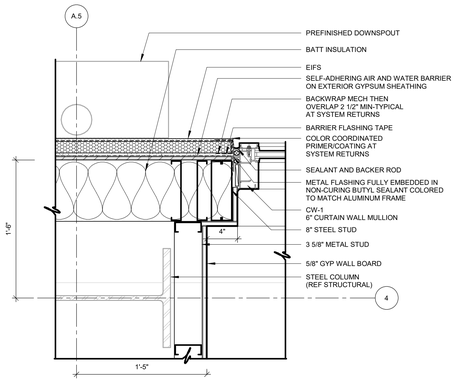
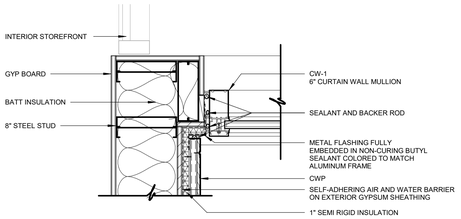
1 1/2" = 1'-0"



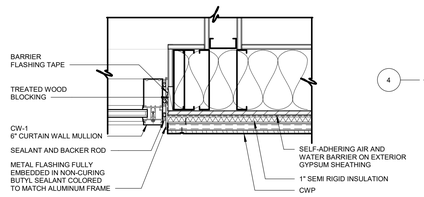
03 PLAN DETAIL
1 1/2" = 1'-0"



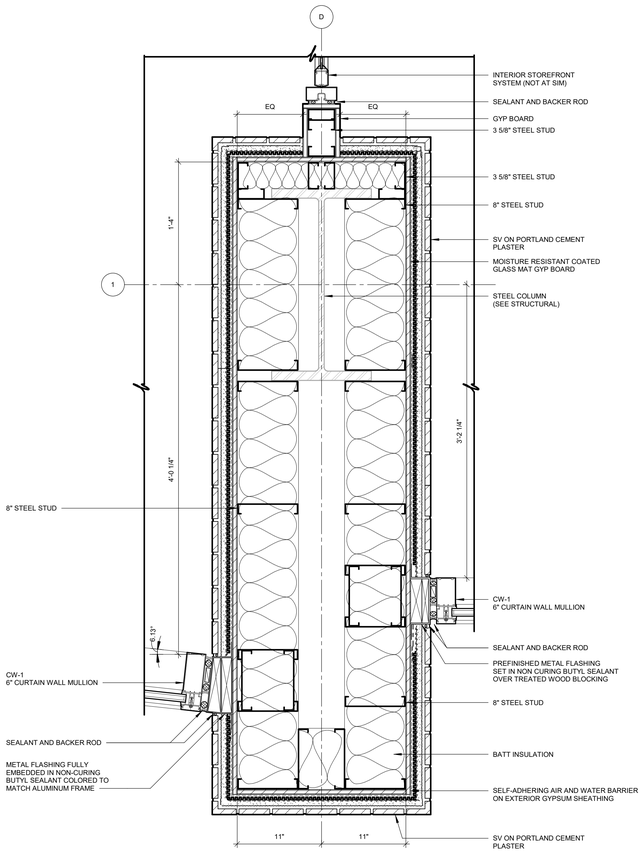
02 PLAN DETAIL
1 1/2" = 1'-0"



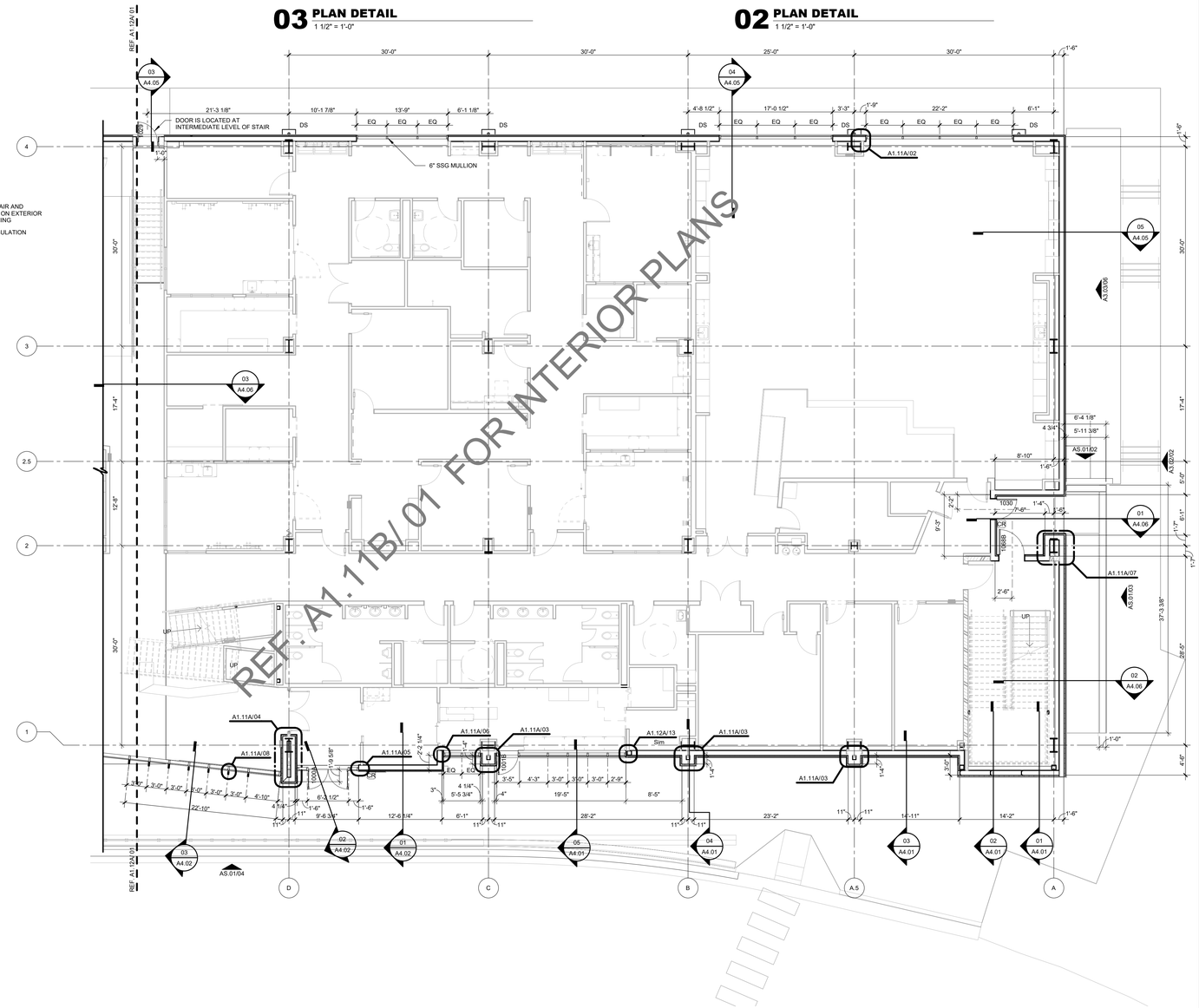
06 PLAN DETAIL
1 1/2" = 1'-0"



05 PLAN DETAIL
1 1/2" = 1'-0"



04 PLAN DETAIL
1 1/2" = 1'-0"



PLAN NORTH
TRUE NORTH

01 FLOOR PLAN LEVEL 01 SECTOR 01 SHELL
1/8" = 1'-0"

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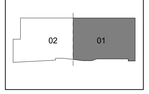

PROJECT PHASE:
95% CONSTRUCTION DOCUMENTS

REVISIONS

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DATE:	JOB NUMBER:
07-15-19	17-13

SHEET NUMBER:
A1.11A

FLOOR PLAN LEVEL 01 SECTOR 01 SHELL

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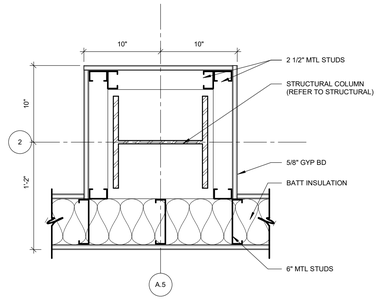
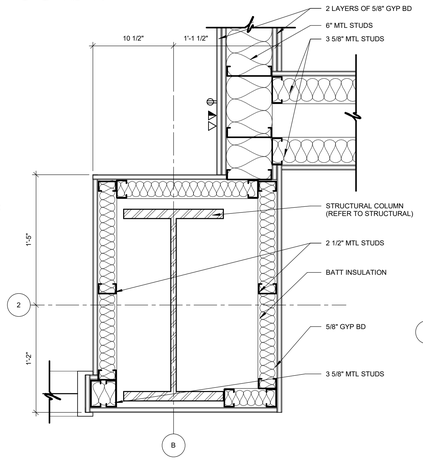
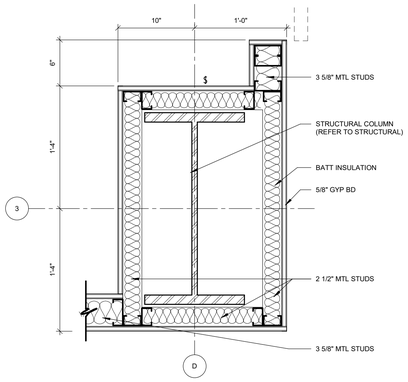


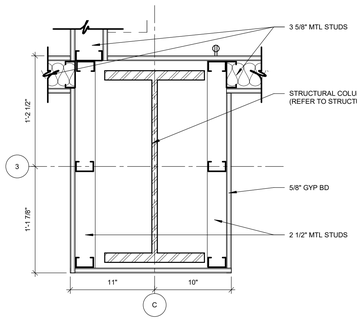
05 PLAN DETAIL @ COLUMN
1 1/2" = 1'-0"



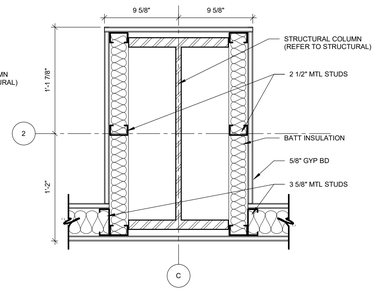
04 PLAN DETAIL @ COLUMN
1 1/2" = 1'-0"



08 PLAN DETAIL @ COLUMN
1 1/2" = 1'-0"



07 PLAN DETAIL @ COLUMN
1 1/2" = 1'-0"



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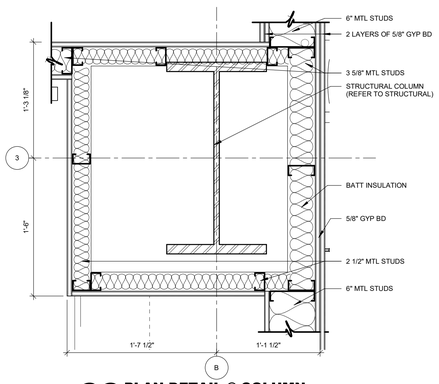
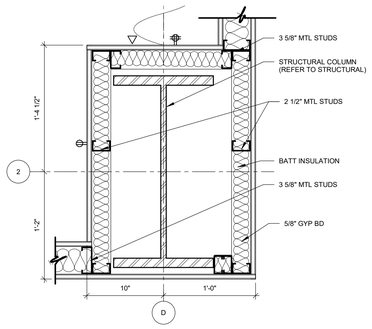


06 PLAN DETAIL @ COLUMN
1 1/2" = 1'-0"



02 PLAN DETAIL @ COLUMN
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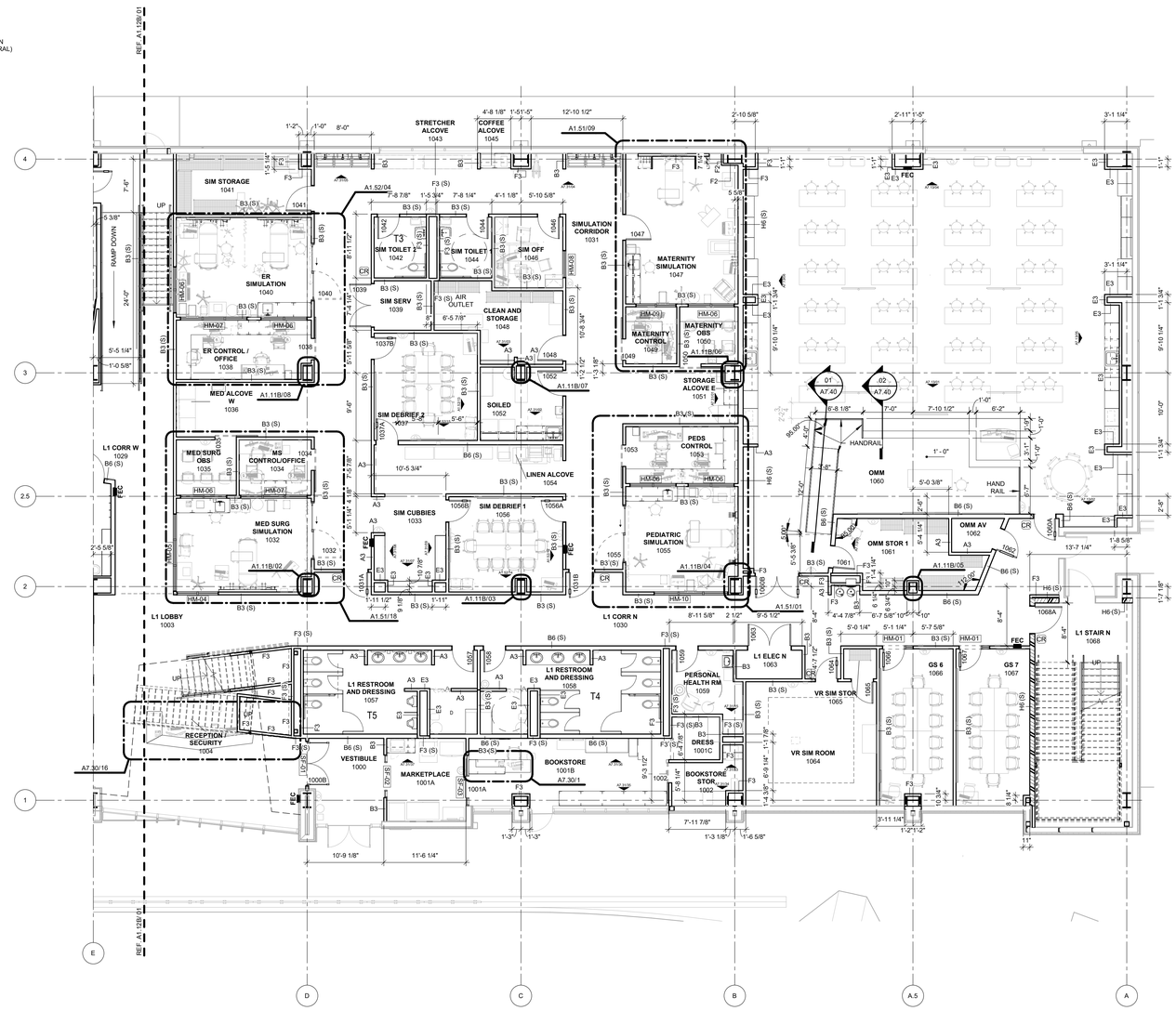

01 FLOOR PLAN LEVEL 01 SECTOR 01
1/8" = 1'-0"

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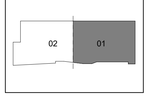

PROJECT PHASE:
95% CONSTRUCTION DOCUMENTS

REVISIONS

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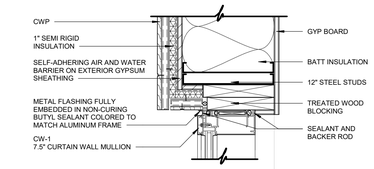
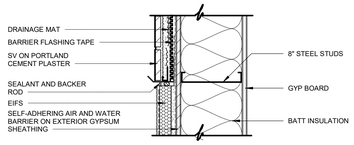
07-26-19	17-13

SHEET NUMBER:
A1.11B

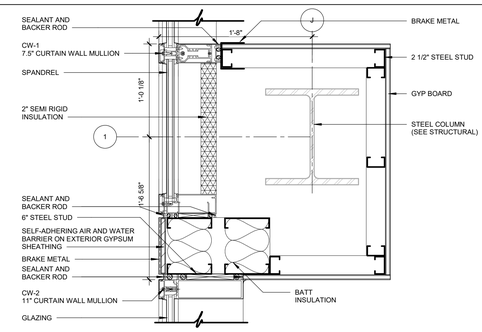
FLOOR PLAN LEVEL 01 SECTOR 01



13 PLAN DETAIL
1 1/2" = 1'-0"



08 PLAN DETAIL
1 1/2" = 1'-0"



05 PLAN DETAIL
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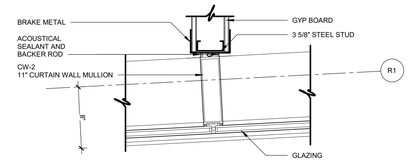
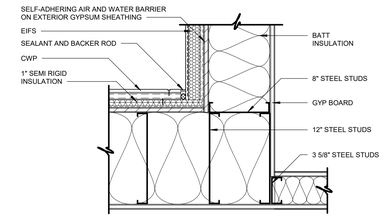
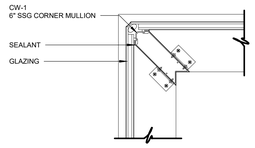


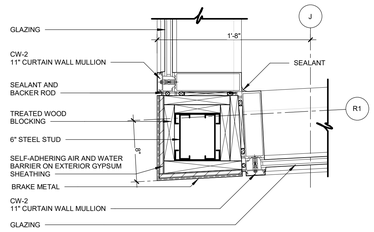
03 PLAN DETAIL
1 1/2" = 1'-0"



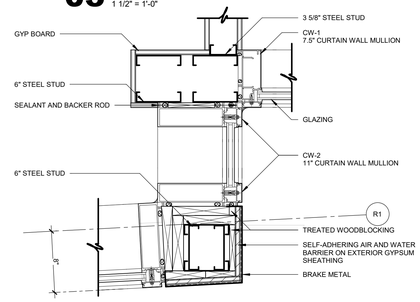
12 PLAN DETAIL
1 1/2" = 1'-0"



07 PLAN DETAIL
1 1/2" = 1'-0"



04 PLAN DETAIL
1 1/2" = 1'-0"



02 PLAN DETAIL
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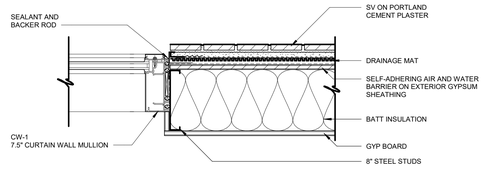

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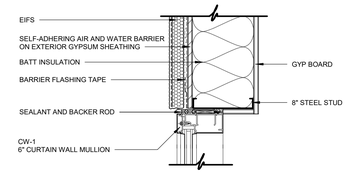
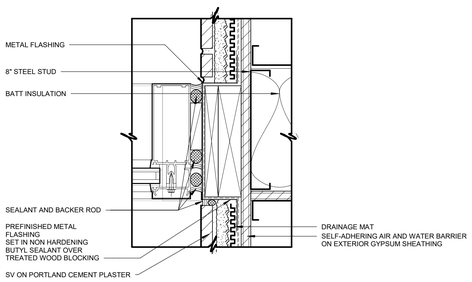
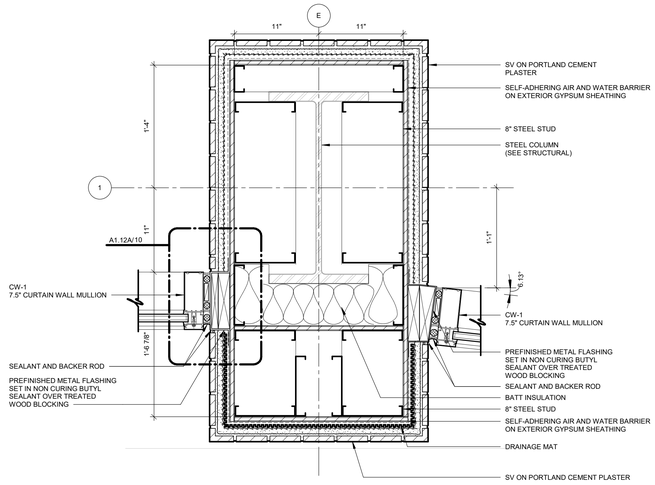


11 PLAN DETAIL
1 1/2" = 1'-0"



10 PLAN DETAIL - TYPICAL FLASHING
3" = 1'-0"



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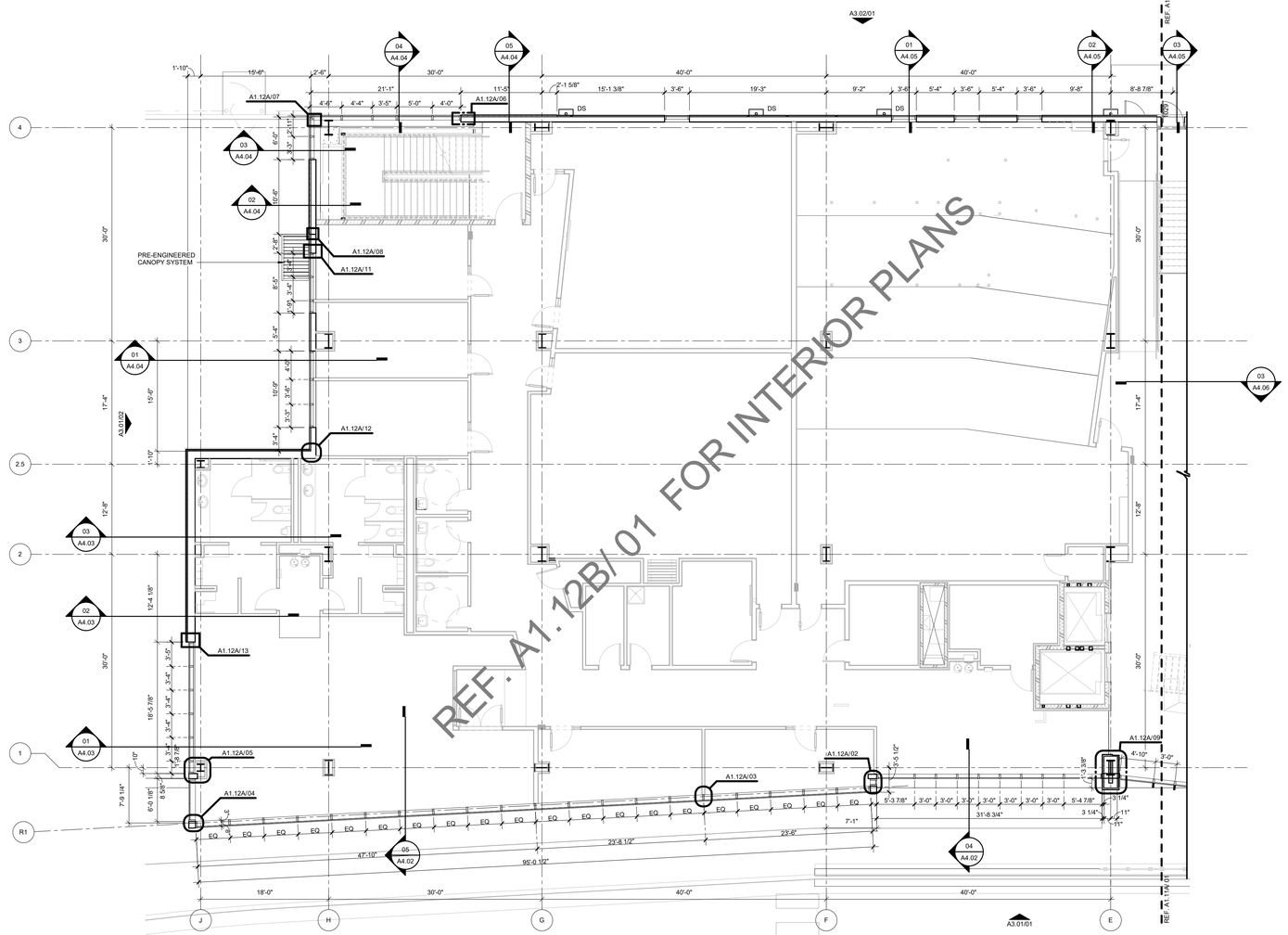

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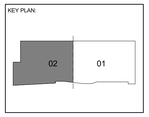
CONSULTANT LOGO:

CLIENT:

COLLEGE OF Osteopathic Medicine AT THE CHEROKEE NATION

TAHLEQUAH, OKLAHOMA

KEY PLAN:



PROJECT PHASE:

95% CONSTRUCTION DOCUMENTS

REVISIONS		
#	DATE	DESCRIPTION

DATE:	JOB NUMBER:
07-15-19	17-13

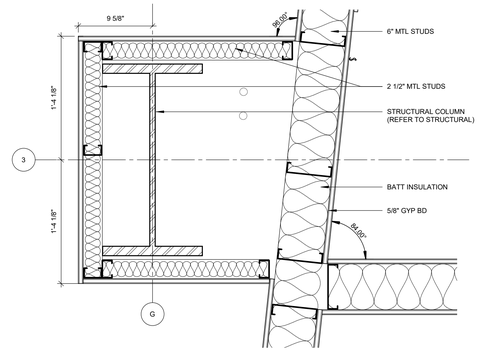
SHEET NUMBER:

A1.12A

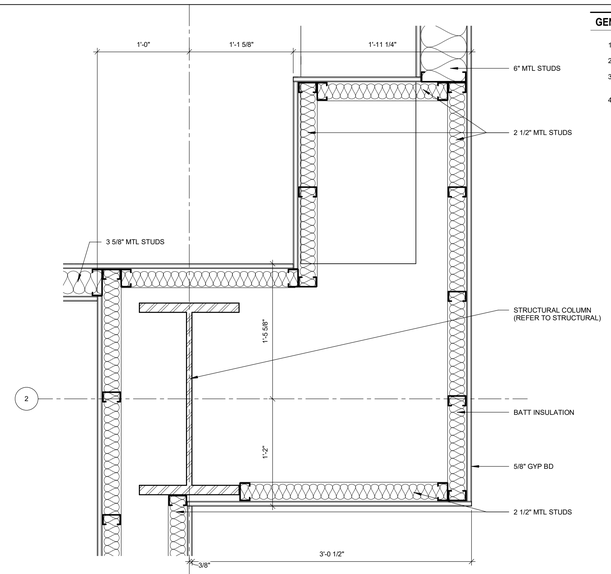
FLOOR PLAN LEVEL 01 SECTOR 02 SHELL

GENERAL NOTES - FLOOR PLAN

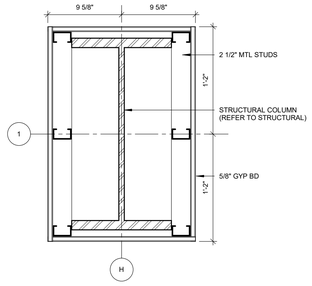
1. ALL EXTERIOR DIMENSIONS ARE FROM FACE OF EXTERIOR STUD, U.N.O
2. ALL INTERIOR DIMENSIONS ARE FROM FACE OF FINISH WALL, U.N.O.
3. REFER TO SHEET A1.60 - A1.65 TOILET AND SHOWER PLANS / ELEVATIONS / ACCESSORIES
4. REFER TO SHEET A2.00 - A2.01 FOR PARTITION TYPES AND FRAMING DETAILS



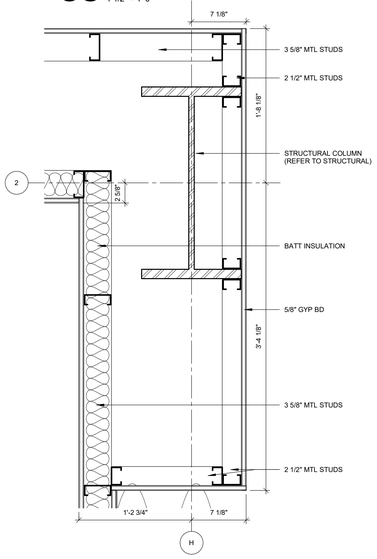
06 PLAN DETAIL @ COLUMN
1 1/2" = 1'-0"



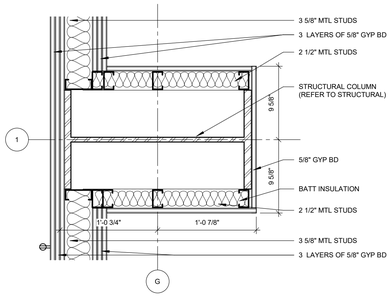
02 PLAN DETAIL @ COLUMN
1 1/2" = 1'-0"



10 PLAN DETAIL @ COLUMN
1 1/2" = 1'-0"



05 PLAN DETAIL @ COLUMN
1 1/2" = 1'-0"



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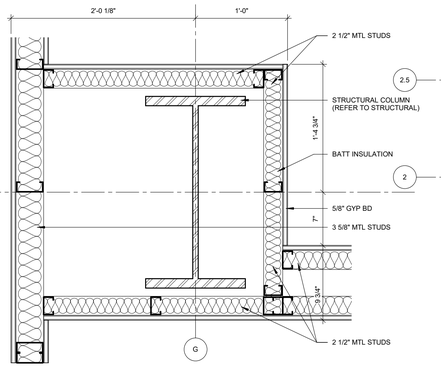
1 1/2" = 1'-0"



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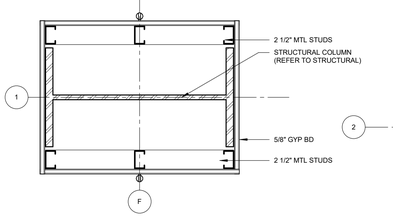

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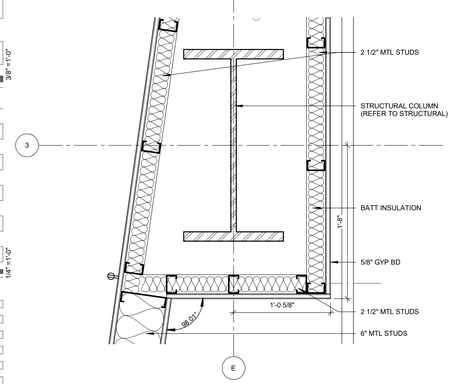
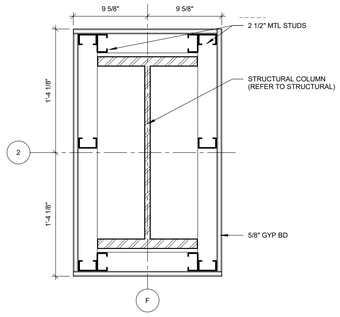
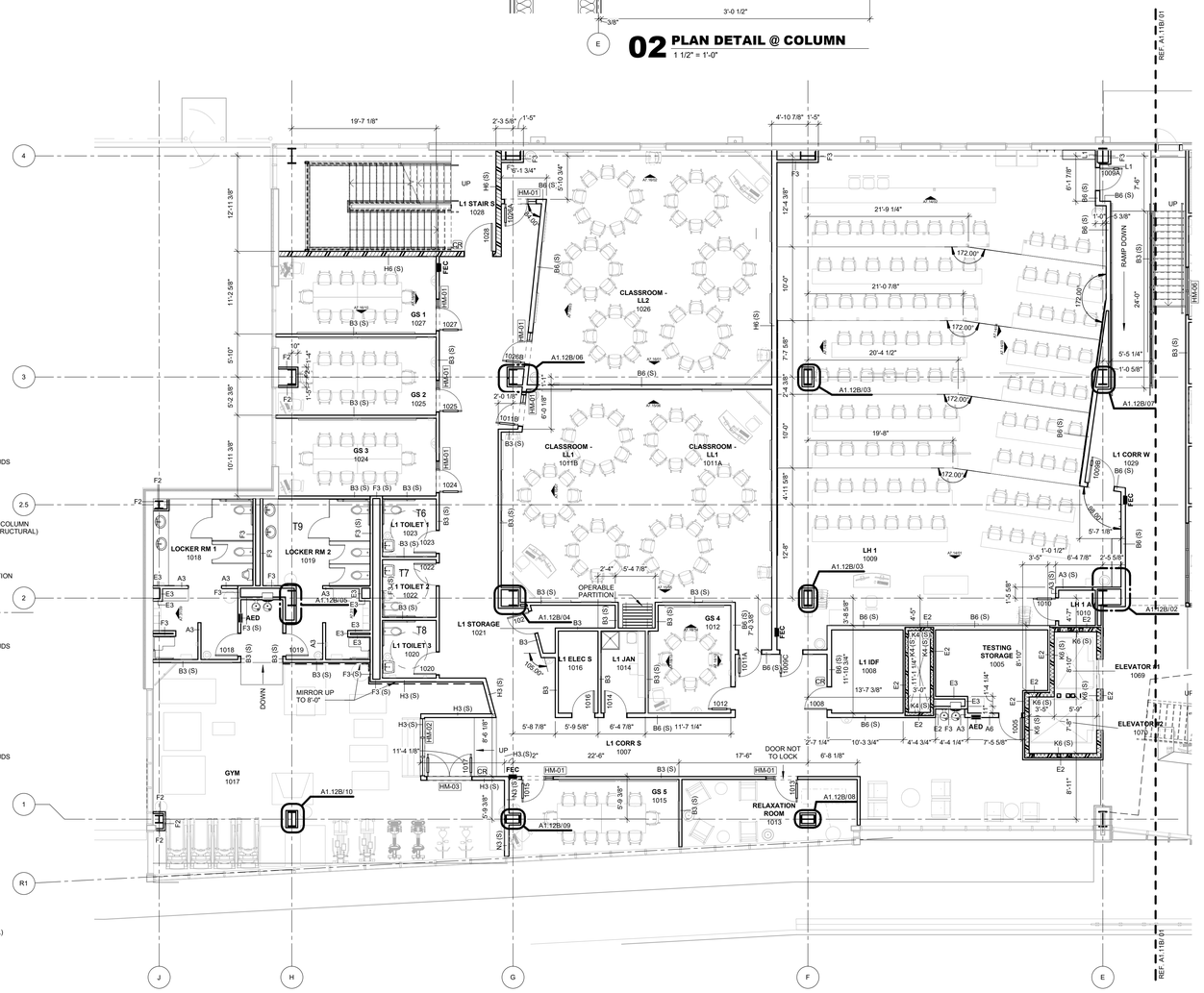
1 1/2" = 1'-0"



07 PLAN DETAIL @ COLUMN
1 1/2" = 1'-0"



03 PLAN DETAIL @ COLUMN
1 1/2" = 1'-0"



01 FLOOR PLAN LEVEL 01 SECTOR 02
1/8" = 1'-0"

PLAN NORTH
TRUE NORTH

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PROFESSIONAL SEAL:

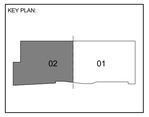
CONSULTANT LOGO:

CLIENT:

College of Osteopathic Medicine at the Cherokee Nation

TAHLEQUAH, OKLAHOMA

KEY PLAN:



PROJECT PHASE:
95% CONSTRUCTION DOCUMENTS

REVISIONS		
#	DATE	DESCRIPTION

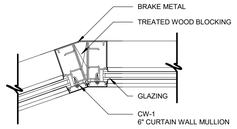
DATE:	JOB NUMBER:
07-26-19	17-13

SHEET NUMBER:
A1.12B

FLOOR PLAN LEVEL 01 SECTOR 02

GENERAL NOTES - FLOOR PLAN

1. ALL EXTERIOR DIMENSIONS ARE FROM FACE OF EXTERIOR STUD, U.N.O
2. REFER TO SHEET A2.00 - A2.01 FOR PARTITION TYPES AND FRAMING DETAILS
3. ALL GYPSUM BOARD TO BE MOLD RESISTANT



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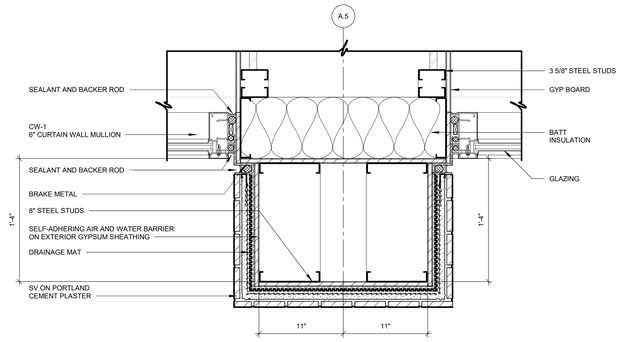
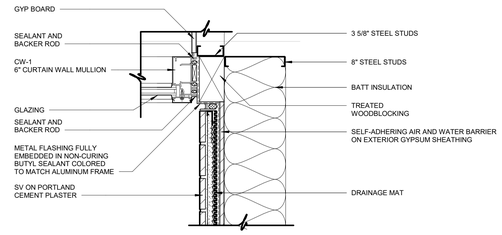
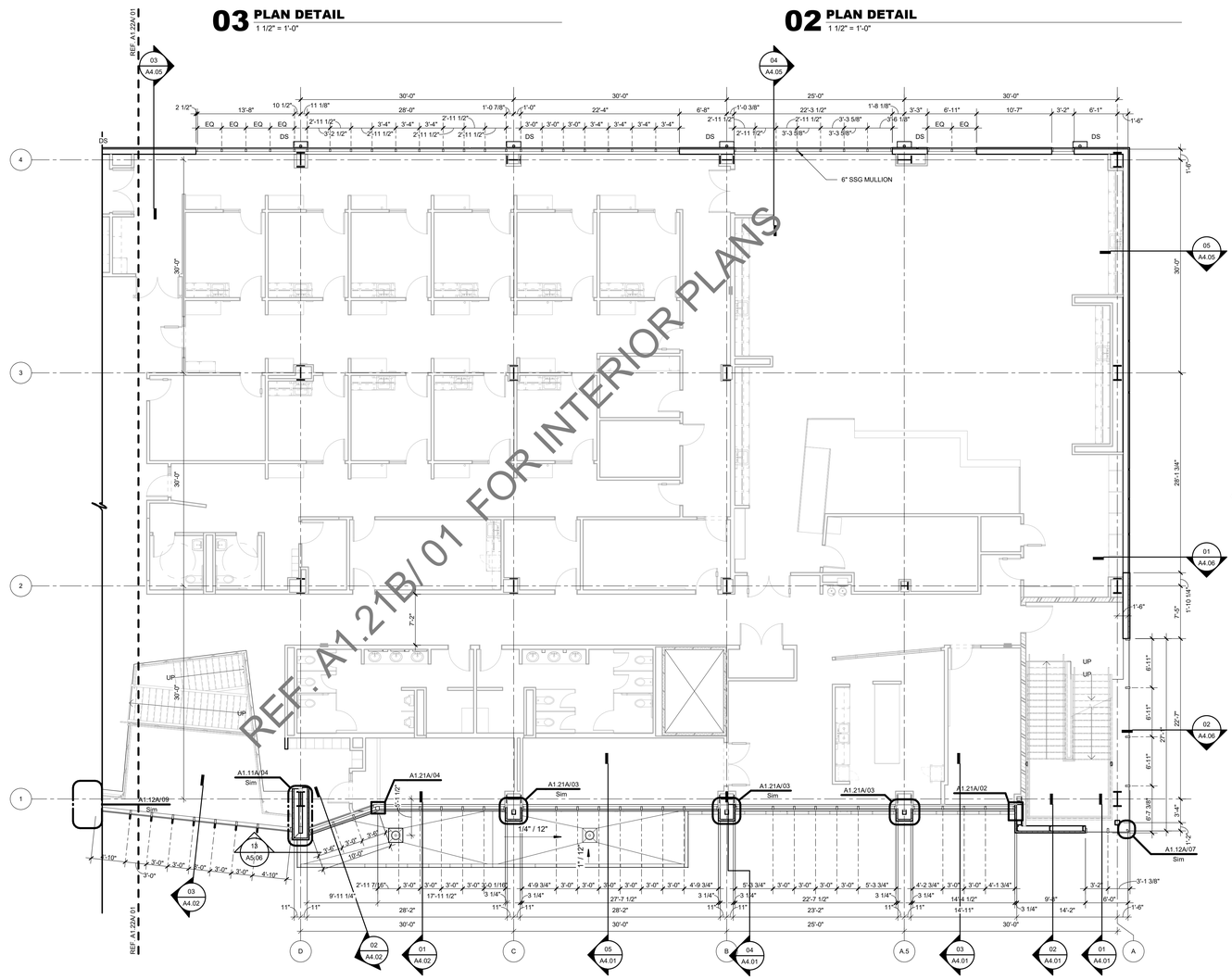


03 PLAN DETAIL
1 1/2" = 1'-0"



02 PLAN DETAIL
1 1/2" = 1'-0"



PLAN NORTH

TRUE NORTH

01 FLOOR PLAN LEVEL 02 SECTOR 01 SHELL
1/8" = 1'-0"

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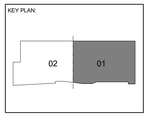

PROJECT PHASE:

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REVISIONS		
#	DATE	DESCRIPTION

DATE:	JOB NUMBER:
07-15-19	17-13

SHEET NUMBER:

A1.21A

FLOOR PLAN LEVEL 02 SECTOR 01 SHELL

GENERAL NOTES - FLOOR PLAN

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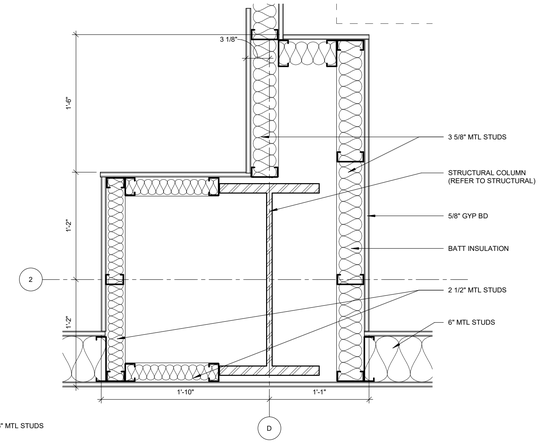
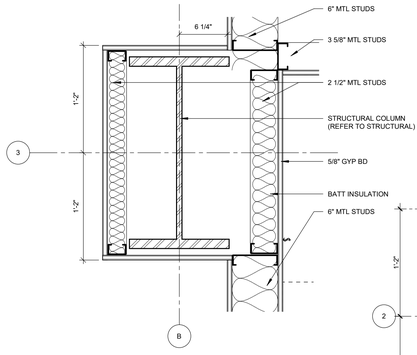


05 PLAN DETAIL @ COLUMN
1 1/2" = 1'-0"



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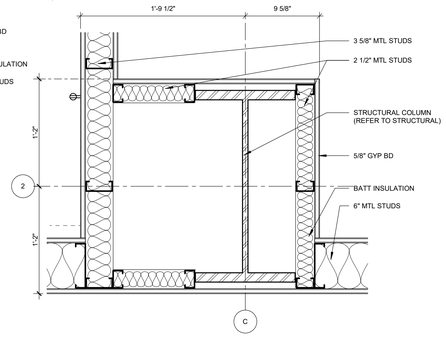

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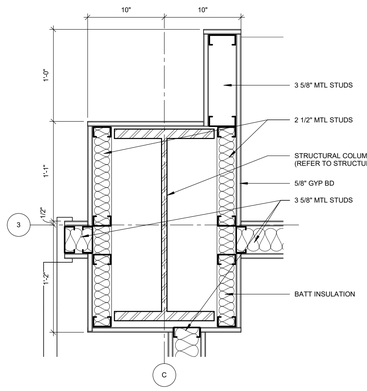
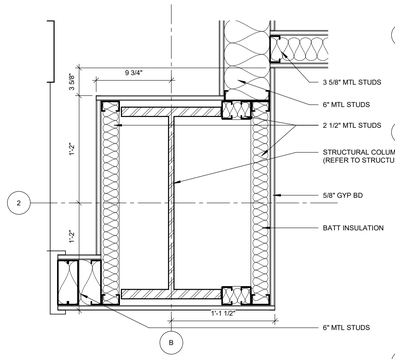
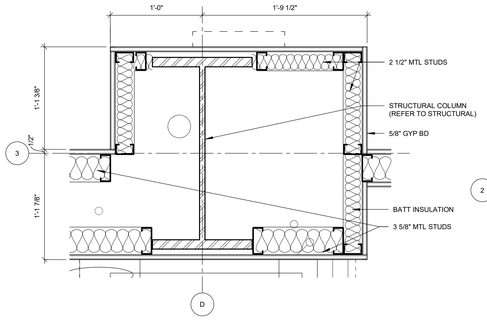


07 PLAN DETAIL @ COLUMN
1 1/2" = 1'-0"



03 PLAN DETAIL @ COLUMN
1 1/2" = 1'-0"



06 PLAN DETAIL @ COLUMN
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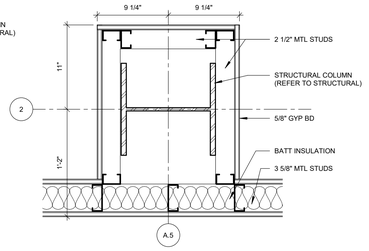

02 PLAN DETAIL @ COLUMN
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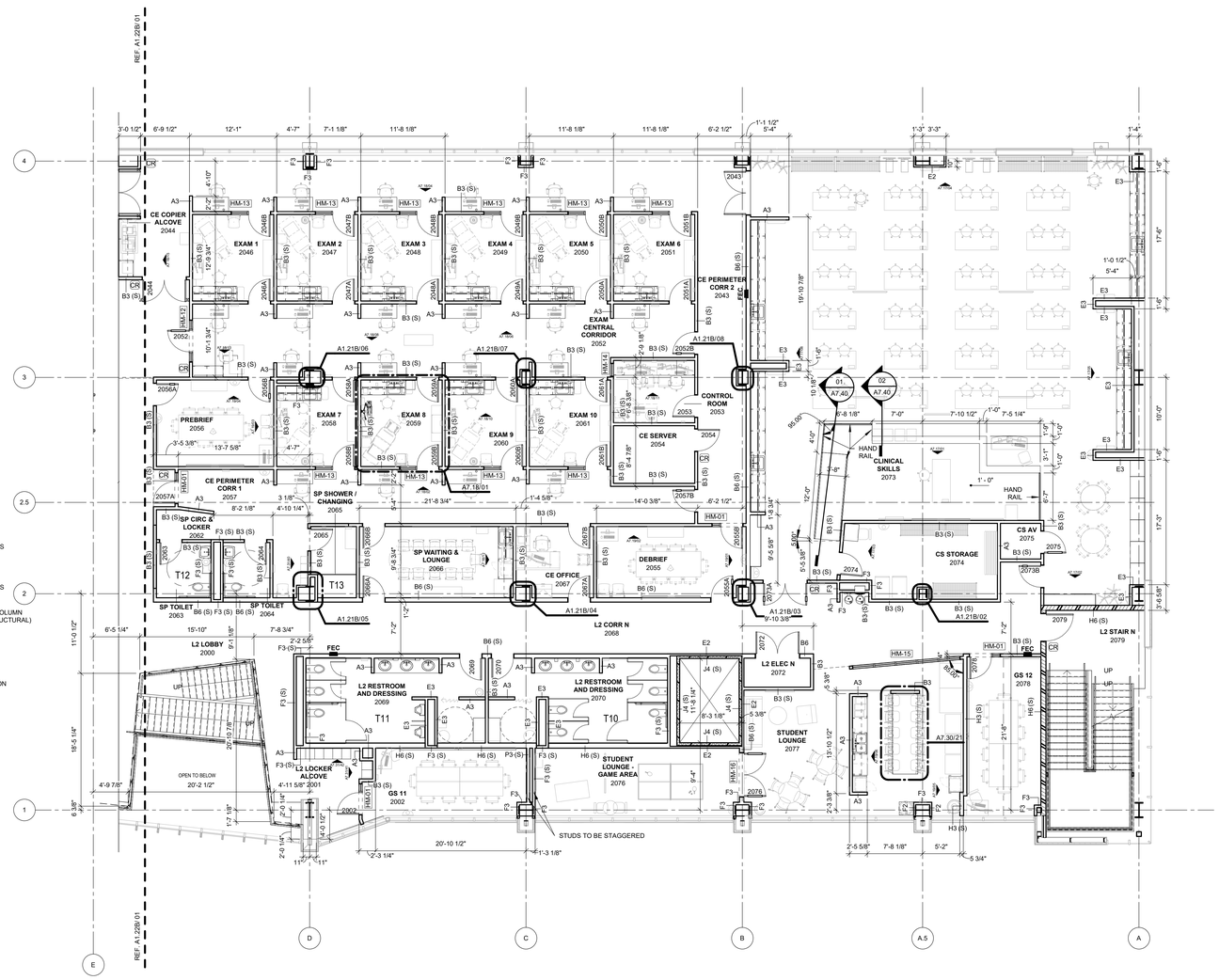

PLAN NORTH
TRUE NORTH

01 FLOOR PLAN LEVEL 02 SECTOR 01
1/8" = 1'-0"

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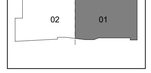

PROJECT PHASE:

95% CONSTRUCTION DOCUMENTS

REVISIONS		
#	DATE	DESCRIPTION

DATE:	JOB NUMBER:
07-26-19	17-13

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A1.21B

FLOOR PLAN LEVEL 02 SECTOR 01

GENERAL NOTES - FLOOR PLAN

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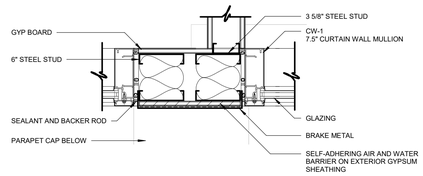
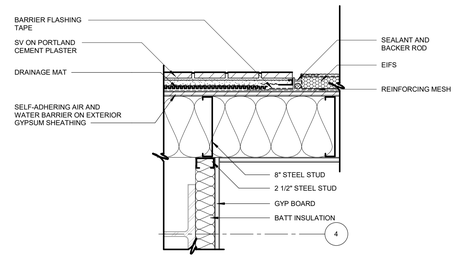


04 PLAN DETAIL
1 1/2" = 1'-0"



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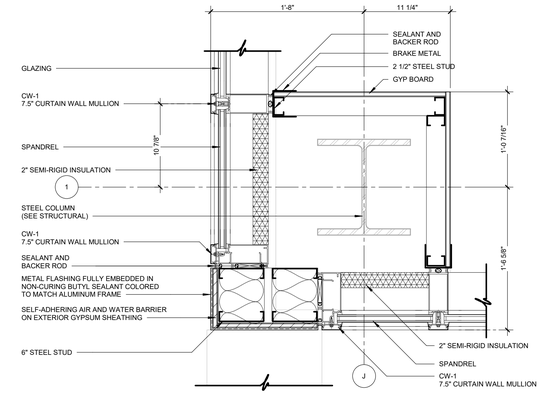
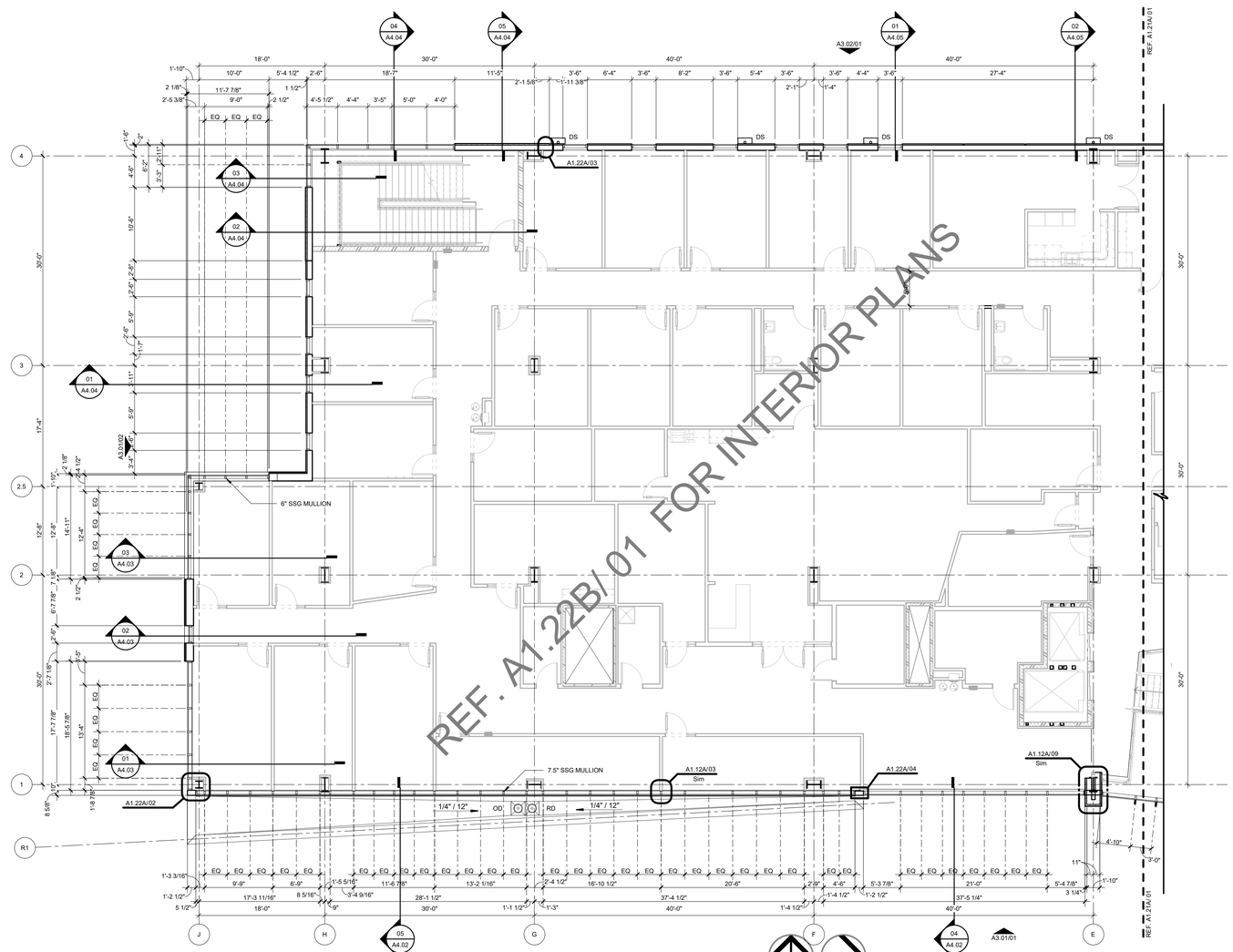


02 PLAN DETAIL
1 1/2" = 1'-0"



01 FLOOR PLAN LEVEL 02 SECTOR 02 SHELL
1/8" = 1'-0"

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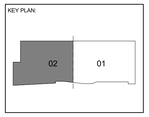

PROJECT PHASE:

95% CONSTRUCTION DOCUMENTS

REVISIONS

#	DATE	DESCRIPTION

DATE:	JOB NUMBER:
07-15-19	17-13

SHEET NUMBER:

A1.22A

FLOOR PLAN LEVEL 02 SECTOR 02 SHELL

GENERAL NOTES - FLOOR PLAN

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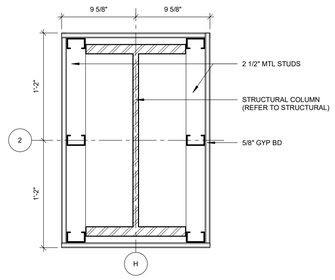

05 PLAN DETAIL @ COLUMN
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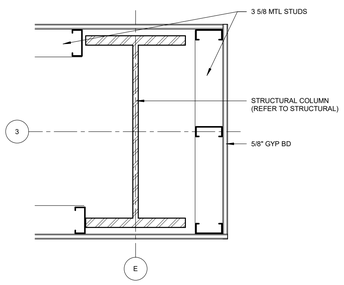

08 PLAN DETAIL @ COLUMN
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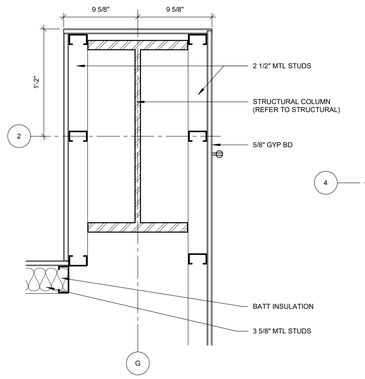

04 PLAN DETAIL @ COLUMN
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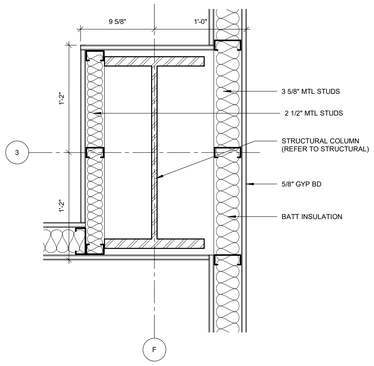

07 PLAN DETAIL @ COLUMN
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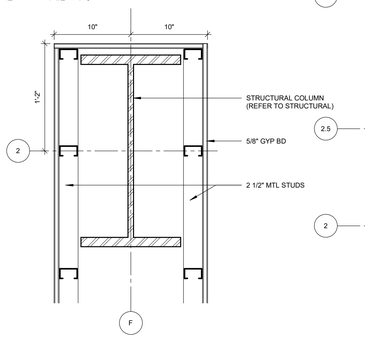
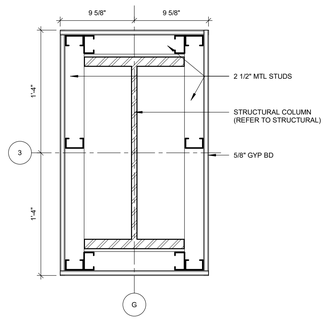


03 PLAN DETAIL @ COLUMN
1 1/2" = 1'-0"



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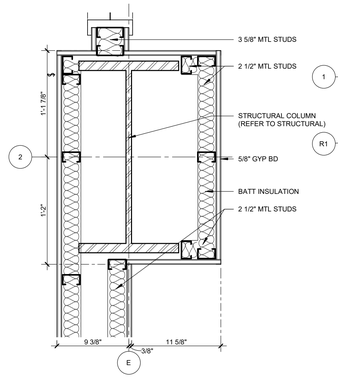

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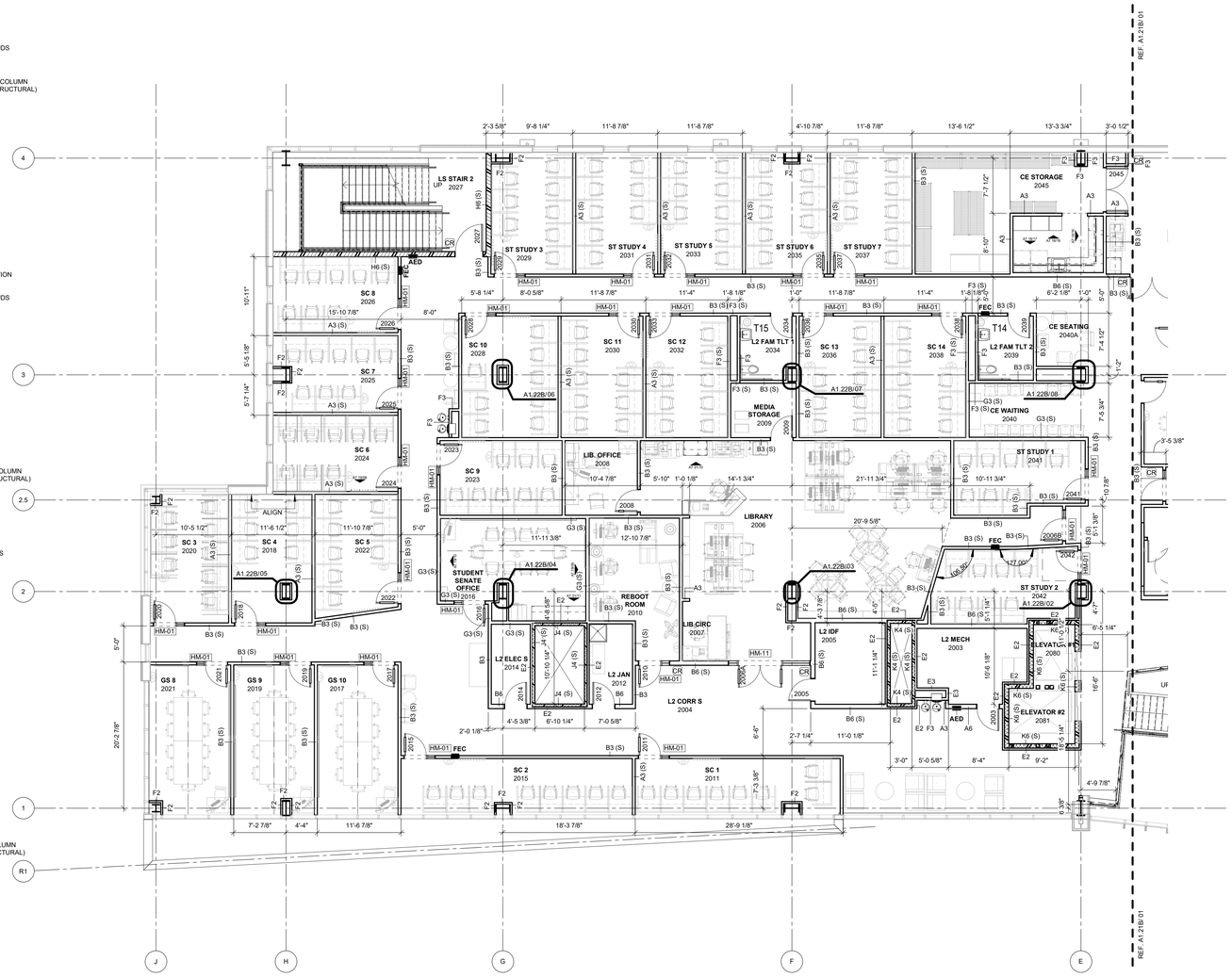

01 FLOOR PLAN LEVEL 02 SECTOR 02
1/8" = 1'-0"

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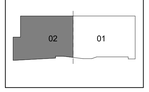
KEY PLAN:



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FLOOR PLAN LEVEL 02 SECTOR 02

GENERAL NOTES - FLOOR PLAN

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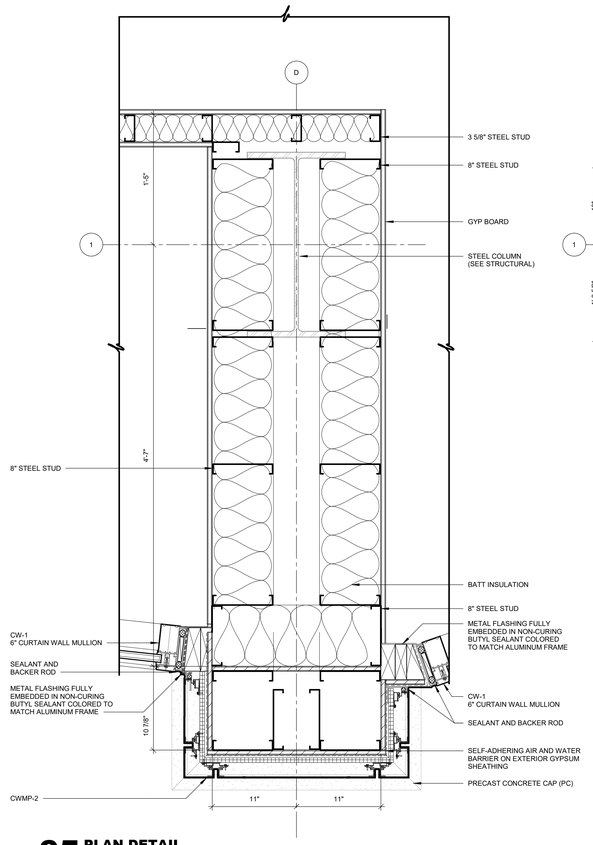
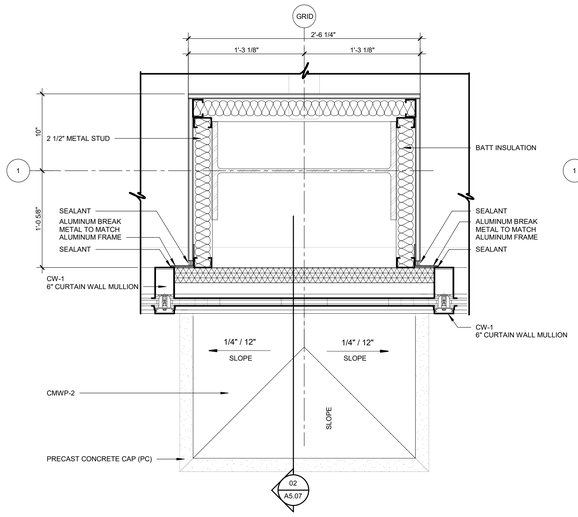
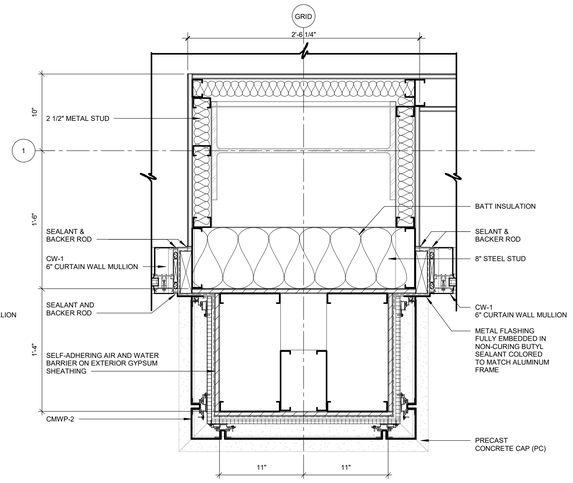
2. REFER TO SHEET A2.00 - A2.01 FOR PARTITION TYPES AND FRAMING DETAILS
3. ALL GYPSUM BOARD TO BE MOLD RESISTANT



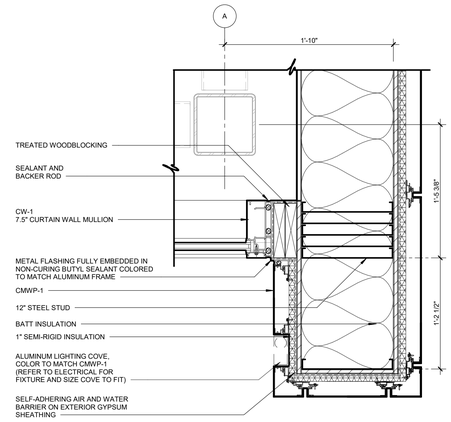
05 PLAN DETAIL
1 1/2" = 1'-0"



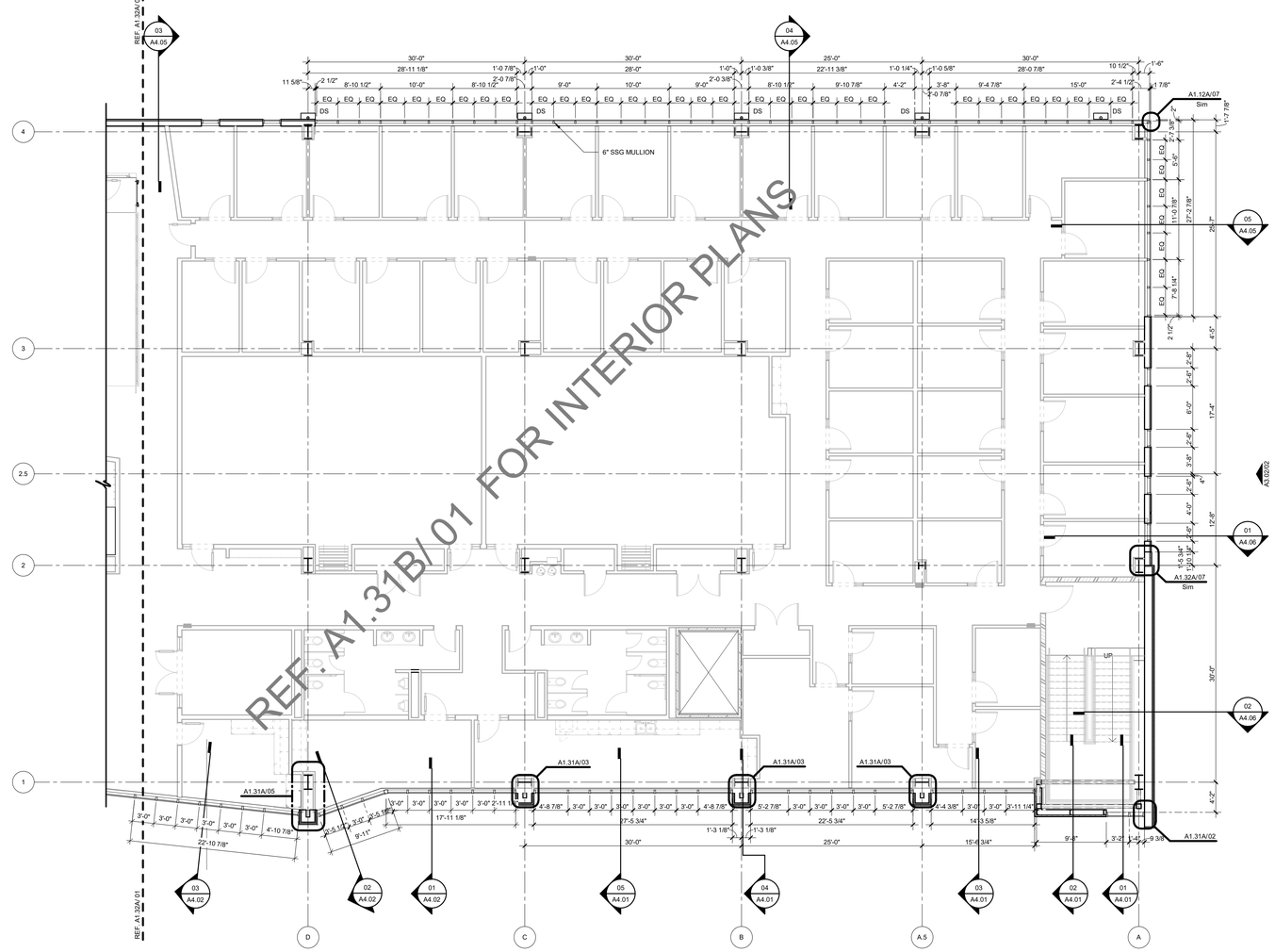
04 PLAN DETAIL
1 1/2" = 1'-0"



03 PLAN DETAIL
1 1/2" = 1'-0"



02 PLAN DETAIL
1 1/2" = 1'-0"



01 FLOOR PLAN LEVEL 03 SECTOR 01 SHELL
1/8" = 1'-0"

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TAHLEQUAH, OKLAHOMA

KEY PLAN:

PROJECT PHASE:
95% CONSTRUCTION DOCUMENTS

REVISIONS		
#	DATE	DESCRIPTION

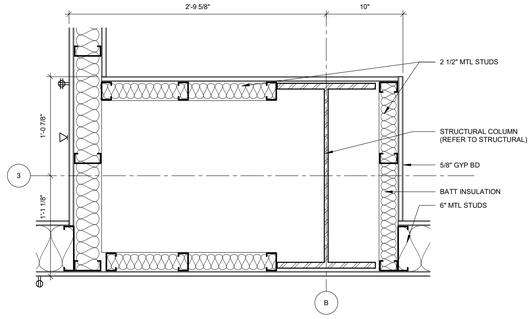
DATE:	JOB NUMBER:
07-15-19	17-13

SHEET NUMBER:
A1.31A

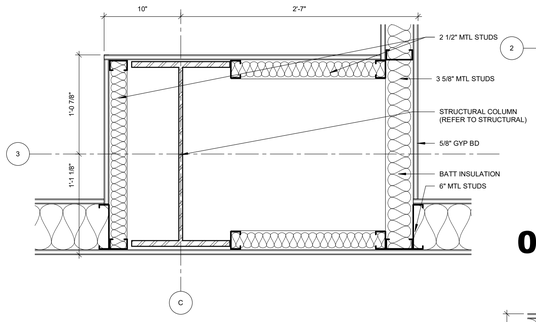
FLOOR PLAN LEVEL 03 SECTOR 01 SHELL

GENERAL NOTES - FLOOR PLAN

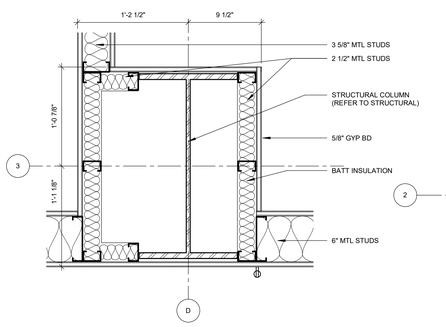
1. ALL EXTERIOR DIMENSIONS ARE FROM FACE OF EXTERIOR STUD, U.N.O
2. ALL INTERIOR DIMENSIONS ARE FROM FACE OF FINISH WALL, U.N.O.
3. REFER TO SHEET A1.60 - A1.65 TOILET AND SHOWER PLANS / ELEVATIONS / ACCESSORIES
4. REFER TO SHEET A2.00 - A2.01 FOR PARTITION TYPES AND FRAMING DETAILS



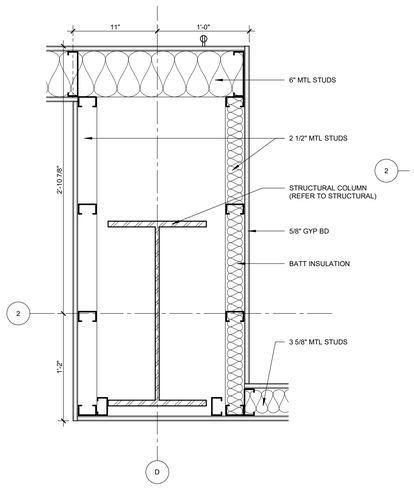
08 PLAN DETAIL @ COLUMN
1 1/2" = 1'-0"



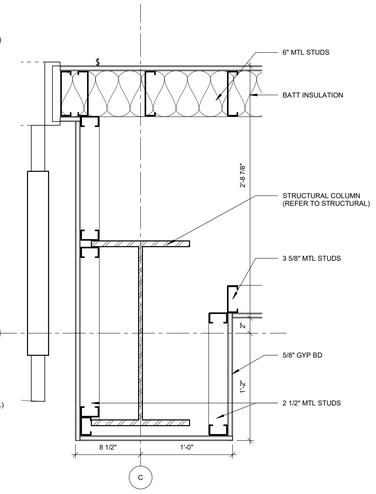
07 PLAN DETAIL @ COLUMN
1 1/2" = 1'-0"



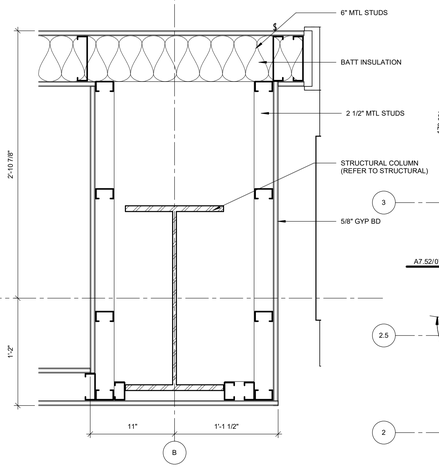
06 PLAN DETAIL @ COLUMN
1 1/2" = 1'-0"



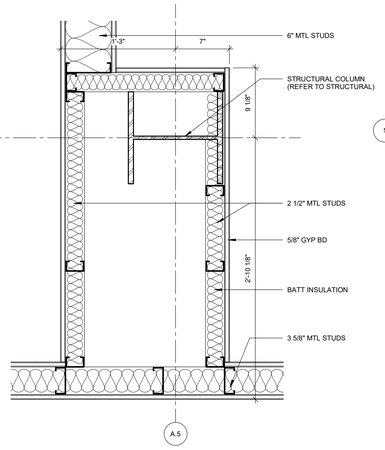
05 PLAN DETAIL @ COLUMN
1 1/2" = 1'-0"



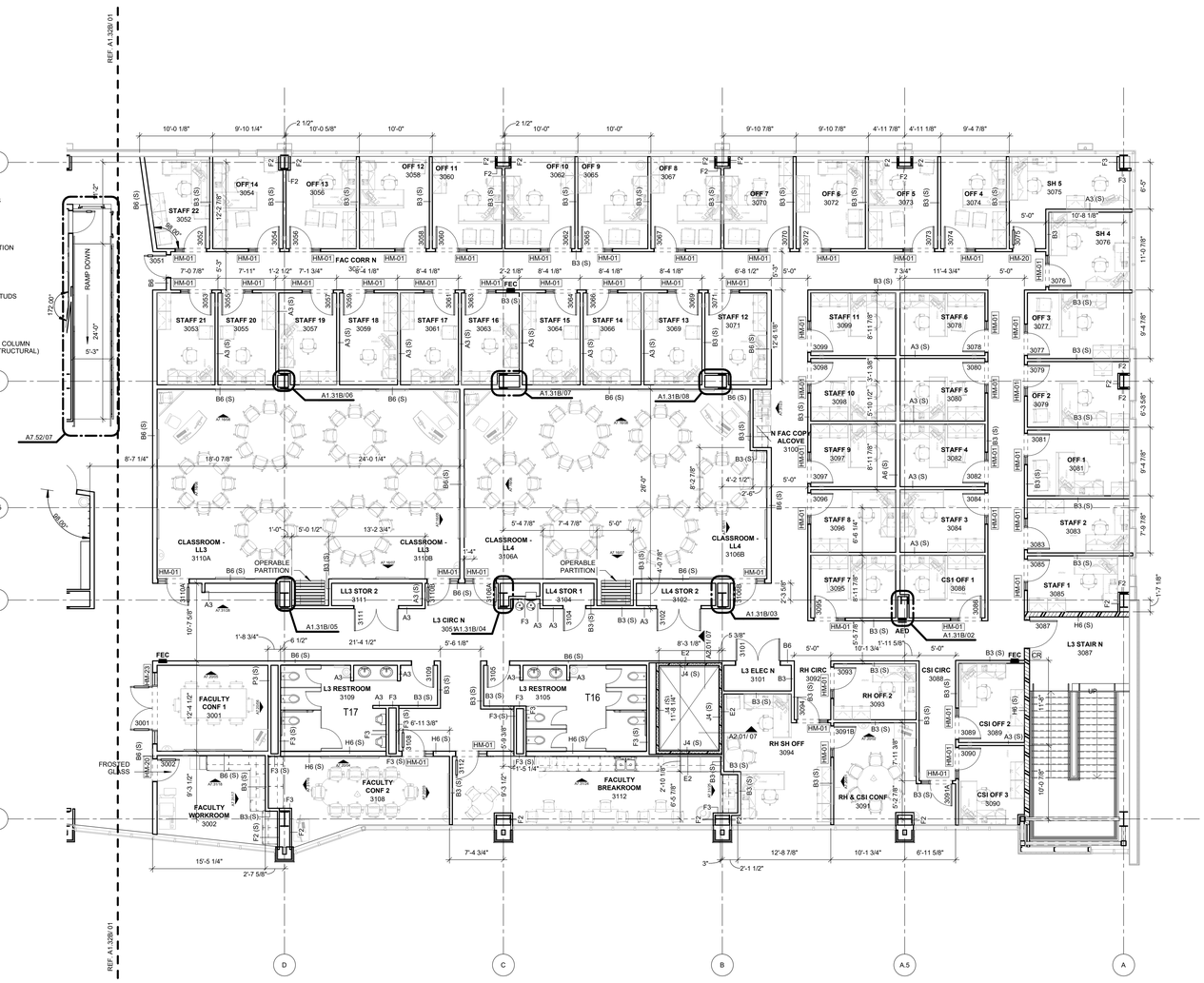
04 PLAN DETAIL @ COLUMN
1 1/2" = 1'-0"



03 PLAN DETAIL @ COLUMN
1 1/2" = 1'-0"



02 PLAN DETAIL @ COLUMN
1 1/2" = 1'-0"



01 FLOOR PLAN LEVEL 03 SECTOR 01
1/8" = 1'-0"

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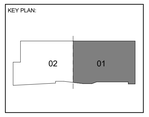
KEY PLAN:



PROJECT PHASE:

95% CONSTRUCTION DOCUMENTS

REVISIONS

#	DATE	DESCRIPTION

DATE:	JOB NUMBER:
07-26-19	17-13

SHEET NUMBER:

A1.31B

FLOOR PLAN LEVEL 03 SECTOR 01

GENERAL NOTES - FLOOR PLAN

1. ALL EXTERIOR DIMENSIONS ARE FROM FACE OF EXTERIOR STUD, U.N.O
2. REFER TO SHEET A2.00 - A2.01 FOR PARTITION TYPES AND FRAMING DETAILS
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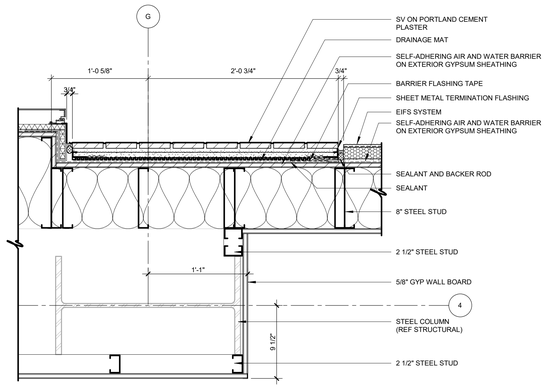
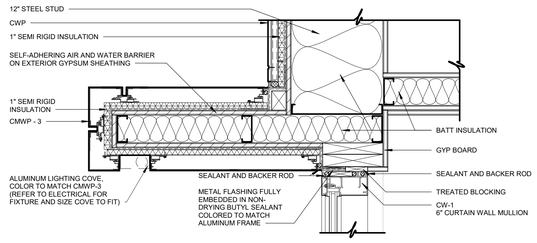
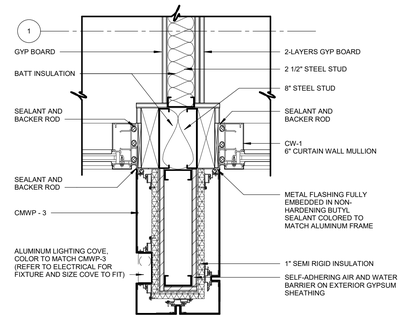


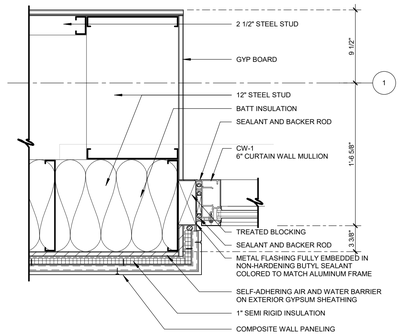
07 PLAN DETAIL
1 1/2" = 1'-0"



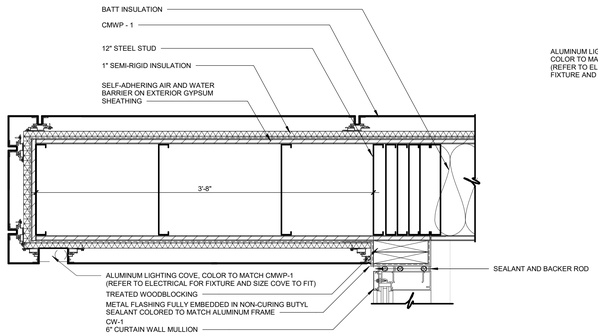
04 PLAN DETAIL
1 1/2" = 1'-0"



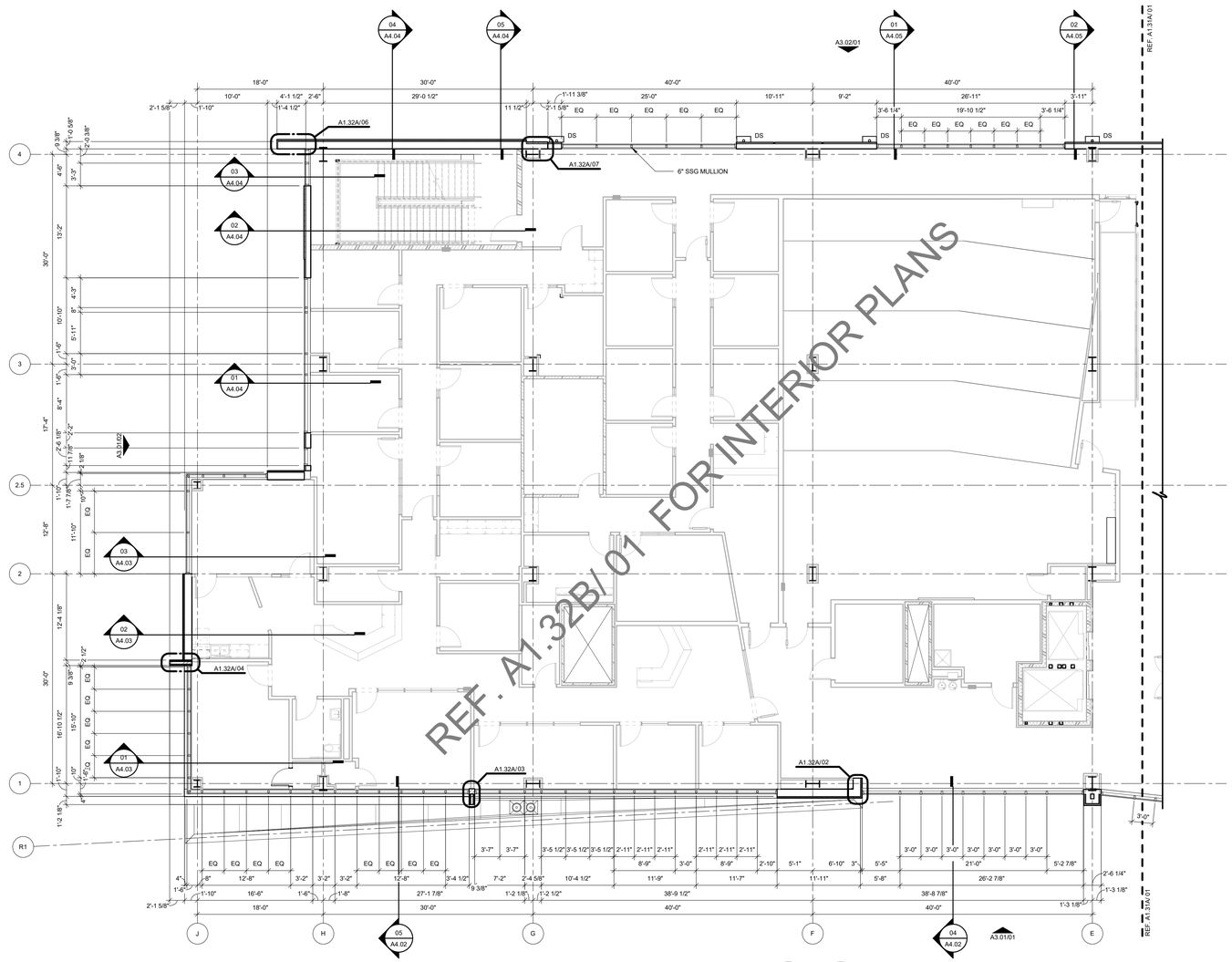
03 PLAN DETAIL
1 1/2" = 1'-0"



02 PLAN DETAIL
1 1/2" = 1'-0"



06 PLAN DETAIL
1 1/2" = 1'-0"



01 FLOOR PLAN LEVEL 03 SECTOR 02 SHELL
1/8" = 1'-0"

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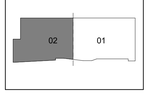
TAHLEQUAH, OKLAHOMA

KEY PLAN:



PROJECT PHASE:
95% CONSTRUCTION DOCUMENTS

REVISIONS

#	DATE	DESCRIPTION

DATE:	JOB NUMBER:
07-15-19	17-13

SHEET NUMBER:
A1.32A

FLOOR PLAN LEVEL 03 SECTOR 02 SHELL

GENERAL NOTES - FLOOR PLAN

1. ALL EXTERIOR DIMENSIONS ARE FROM FACE OF EXTERIOR STUD, U.N.O
2. ALL INTERIOR DIMENSIONS ARE FROM FACE OF FINISH WALL, U.N.O.
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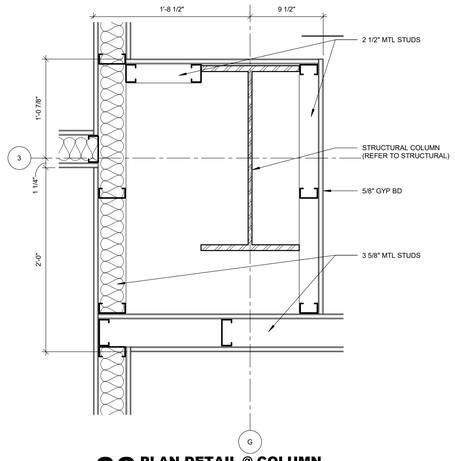
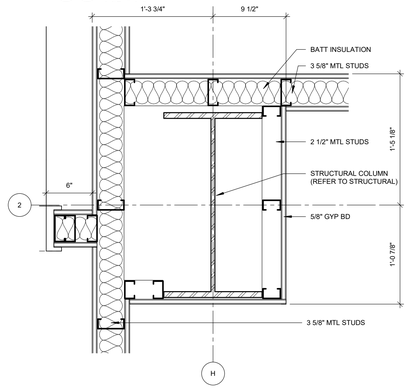
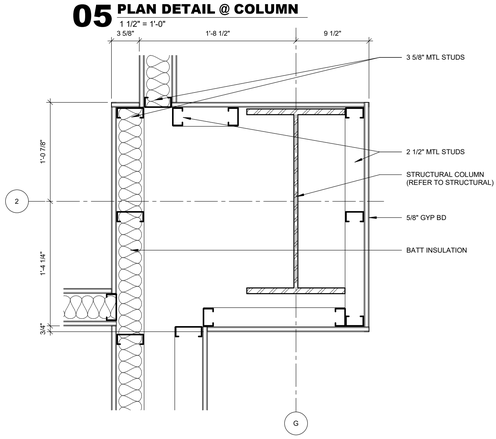
4. REFER TO SHEET A2.00 - A2.01 FOR PARTITION TYPES AND FRAMING DETAILS



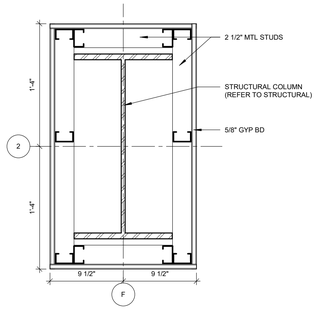
06 PLAN DETAIL @ COLUMN
1 1/2" = 1'-0"



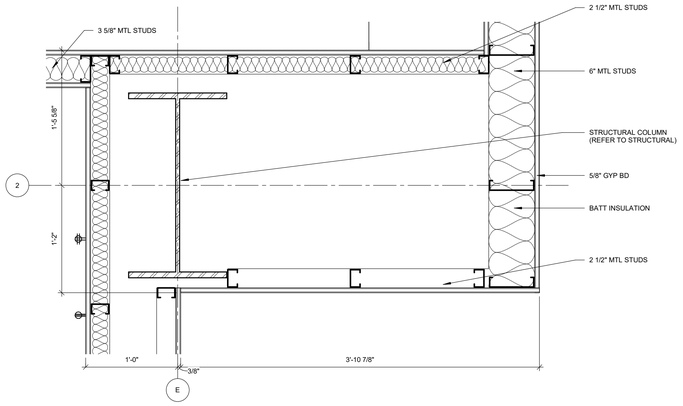
05 PLAN DETAIL @ COLUMN
1 1/2" = 1'-0"



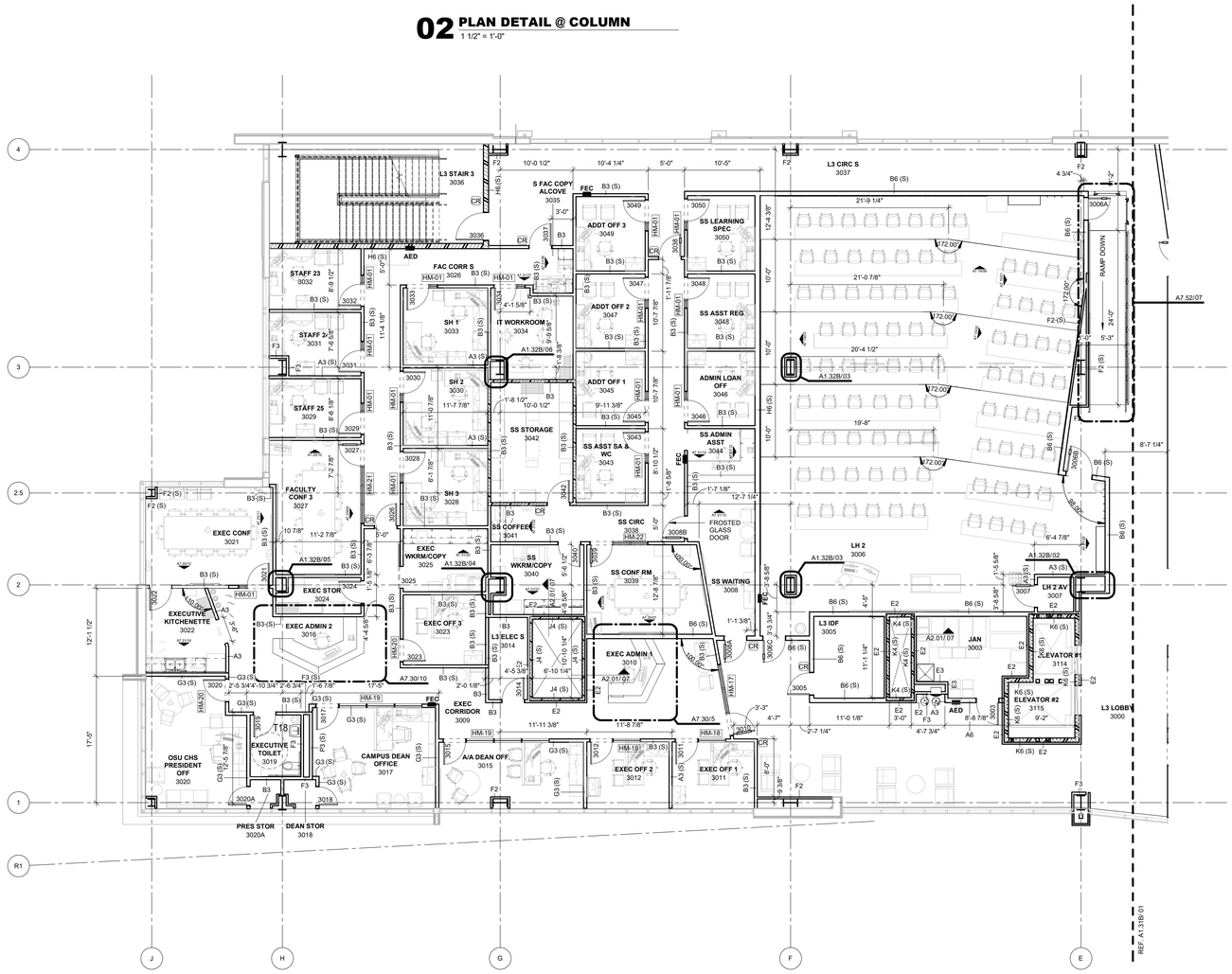
04 PLAN DETAIL @ COLUMN
1 1/2" = 1'-0"



03 PLAN DETAIL @ COLUMN
1 1/2" = 1'-0"



02 PLAN DETAIL @ COLUMN
1 1/2" = 1'-0"



01 FLOOR PLAN LEVEL 03 SECTOR 02
1/8" = 1'-0"

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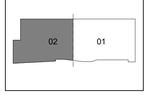
KEY PLAN:



PROJECT PHASE:
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REVISIONS		
#	DATE	DESCRIPTION

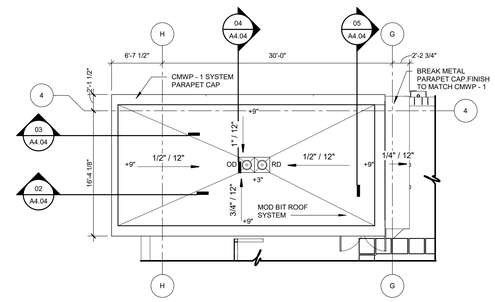
DATE:	JOB NUMBER:
07-26-19	17-13

SHEET NUMBER:
A1.32B

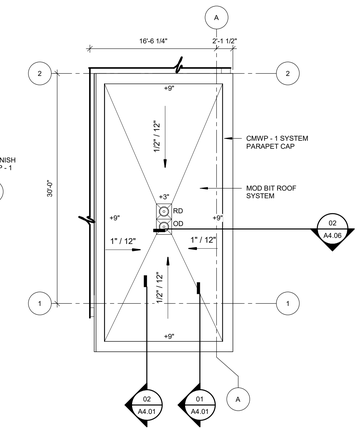
FLOOR PLAN LEVEL 03 SECTOR 02

GENERAL NOTES - ROOF PLAN

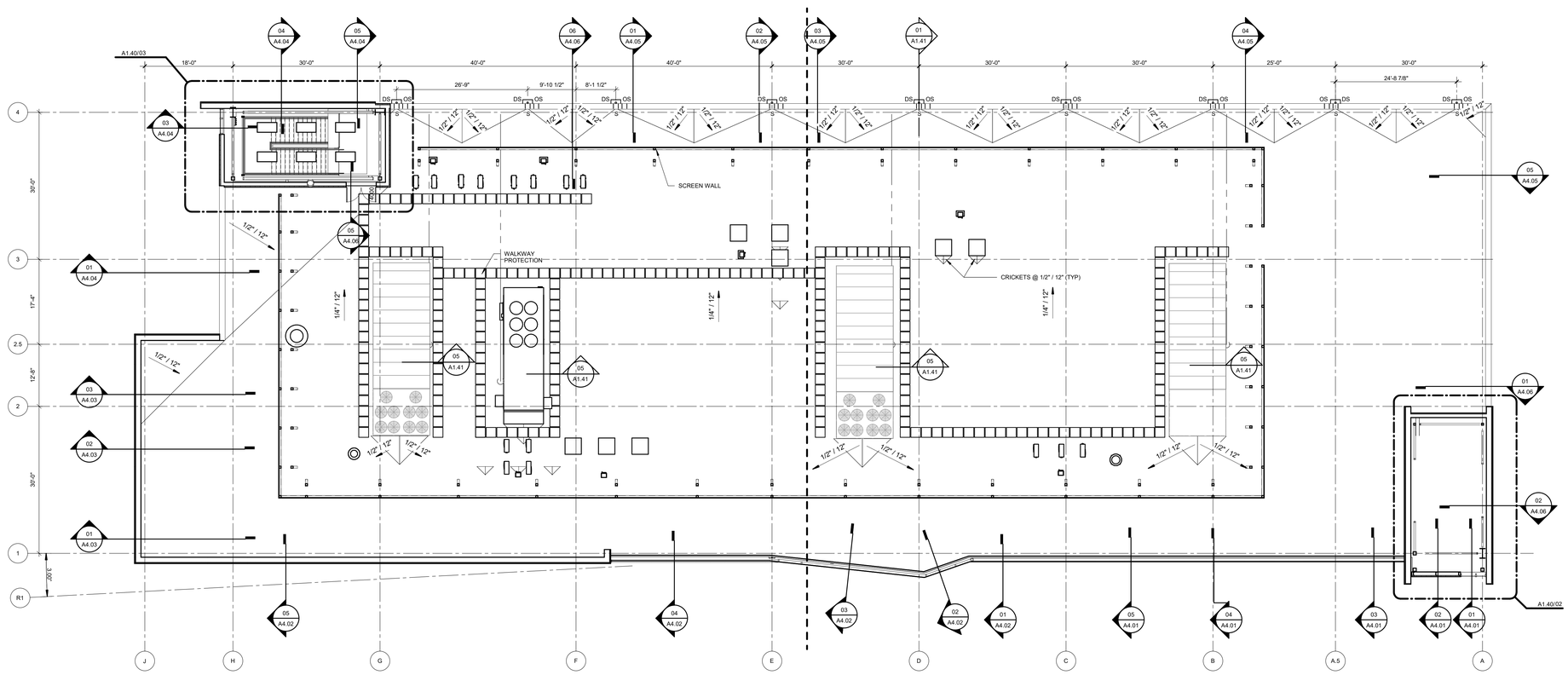
1. ALL ROOFING SURFACES TO SLOPE 1/4" VERTICAL PER 1'-0" HORIZONTAL MINIMUM, U.N.O.
2. ALL ROOF TOP MECHANICAL, ELECTRICAL, AND/OR PLUMBING EQUIPMENT SHOWN FOR INFORMATION ONLY. REFERNCE MECHANICAL, ELECTRICAL, AND PLUMBING DOCUMENTS AND SPECIFICATIONS FOR SPECIFIC DESIGN INFORMATION.
3. PROVIDE WALKWAY PROTECTION TO MAJOR MECHANICAL, ELECTRICAL, AND PLUMBING EQUIPMENT AS REQUIRED TO PROVIDE SERVICE ACCESS. WALKWAY PROTECTION IS INDICATED AS A GENERAL LAYOUT AND MAY NOT SHOW ALL FINAL LOCATIONS OF EQUIPMENT.



03 SOUTH STAIR TOWER ROOF
1/8" = 1'-0"



02 NORTH STAIR TOWER ROOF
1/8" = 1'-0"



01 OVERALL ROOF PLAN
3/32" = 1'-0"

PLAN NORTH
TRUE NORTH

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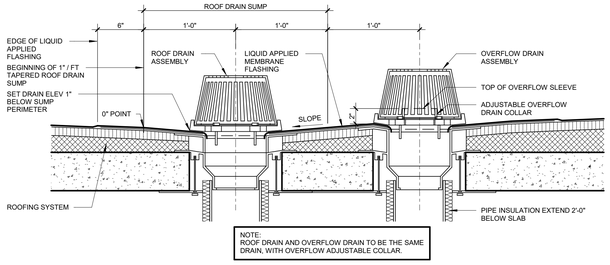
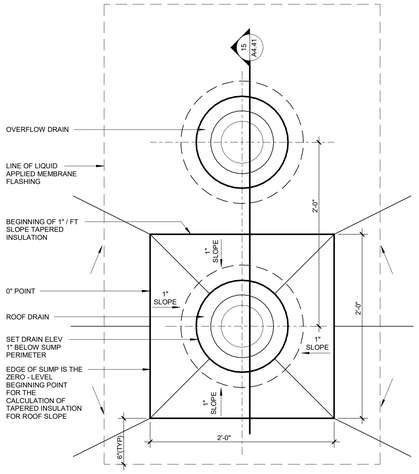
07-15-19	17-13

SHEET NUMBER:
A1.40

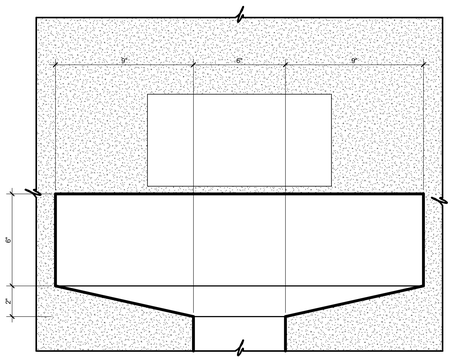
ROOF PLANS



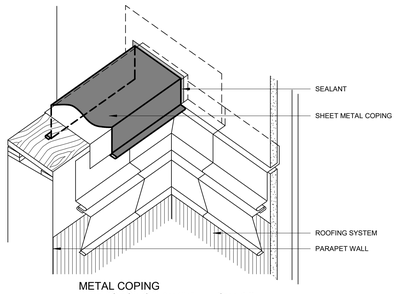
14 ROOF OVERFLOW / DRAIN SUMP SECTION
1 1/2" = 1'-0"



13 ROOF DRAIN WITH ADJACENT OVERFLOW DRAIN
1 1/2" = 1'-0"

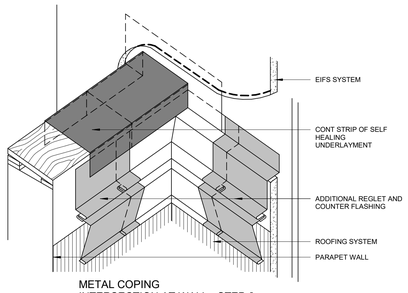


12 CONDUCTOR HEAD DETAIL - FRONT
3" = 1'-0"



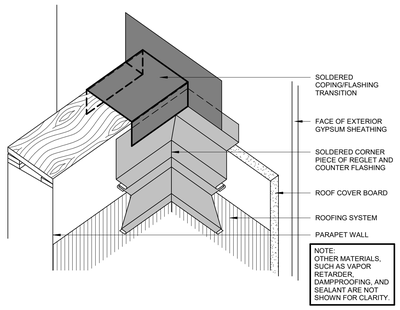
METAL COPING
INTERSECTION AT WALL - STEP 3

NTS

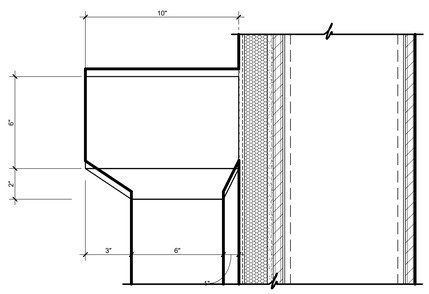


METAL COPING
INTERSECTION AT WALL - STEP 2

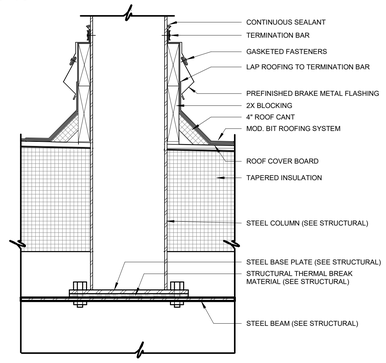
NTS



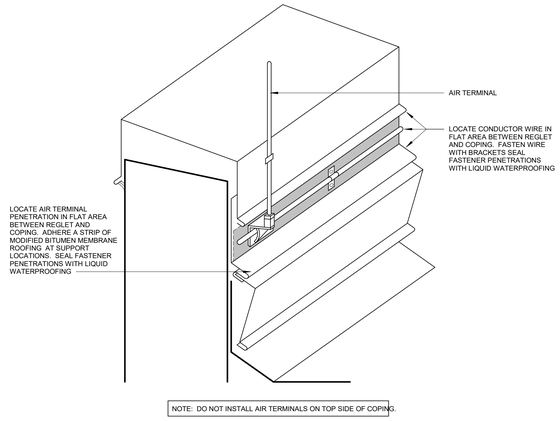
10 COPING DETAIL - MODIFIED BITUMINOUS ROOFING
1 1/2" = 1'-0"



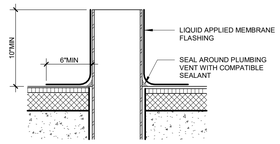
11 CONDUCTOR HEAD DETAIL - SIDE
3" = 1'-0"



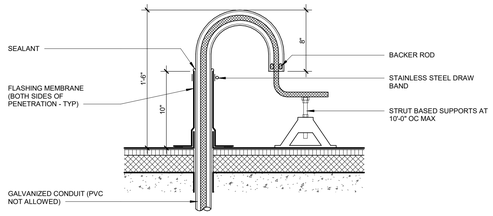
09 SCREEN WALL PENETRATION DETAIL
1 1/2" = 1'-0"



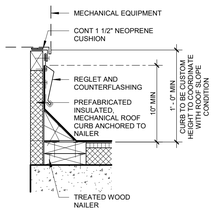
08 LIGHTNING PROTECTION AIR TERMINAL SUPPORT DETAIL AT PARAPET
3" = 1'-0"



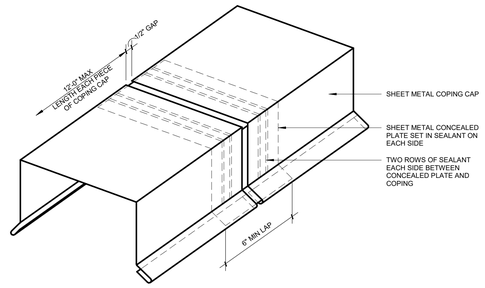
07 VENT PIPE PENETRATION
1 1/2" = 1'-0"



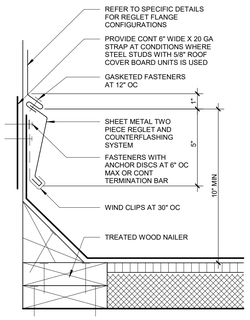
06 LIGHTNING PROTECTION PENETRATION DETAIL
1 1/2" = 1'-0"



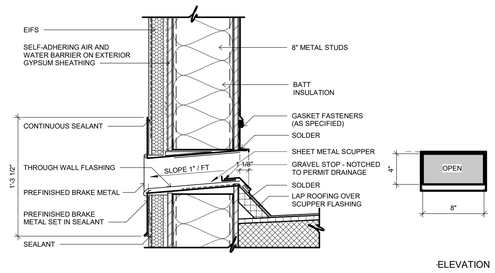
05 EQUIPMENT CURB
1 1/2" = 1'-0"



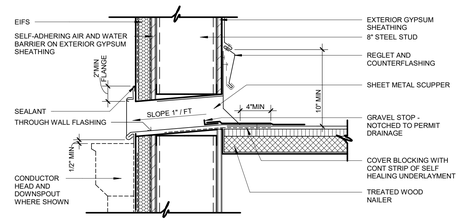
04 COPING CAP WITH CONCEALED PLATE
3" = 1'-0"



03 REGLET AND COUNTERFLASHING
3" = 1'-0"



02 OVERFLOW SCUPPER
1 1/2" = 1'-0"



01 PARAPET SCUPPER (W/ CONDUCTOR HEAD)
1 1/2" = 1'-0"

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REVISIONS		
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DATE:	JOB NUMBER:
07-15-19	17-13

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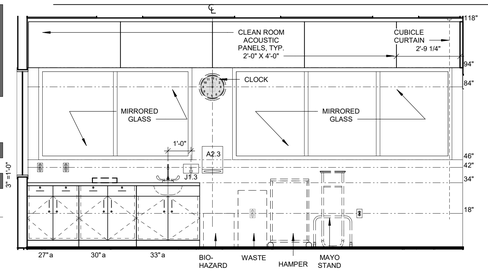
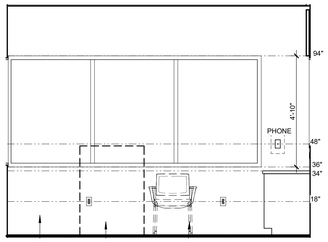
A1.41

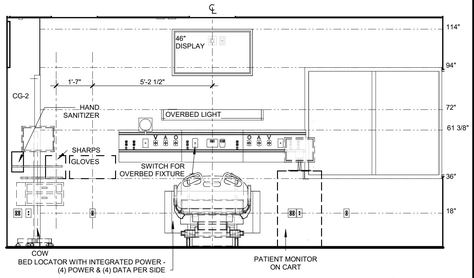
ROOF DETAILS



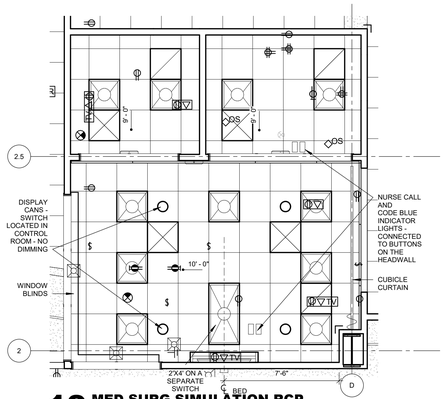
22 MED SURG WEST ELEV
3/8" = 1'-0"



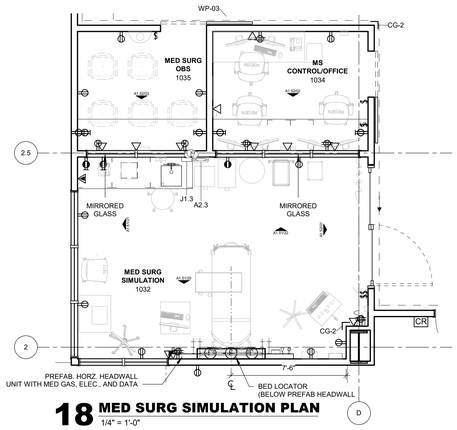
21 MED SURG ELEV - SOUTH
3/8" = 1'-0"



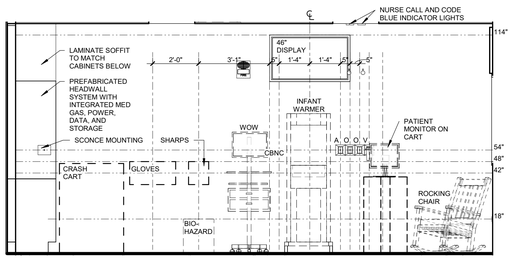
20 MED SURG EAST ELEV - HEADWALL
3/8" = 1'-0"



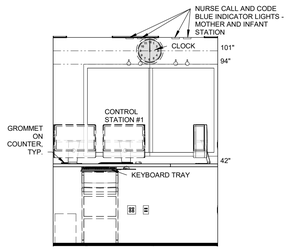
19 MED SURG SIMULATION RCP
1/4" = 1'-0"



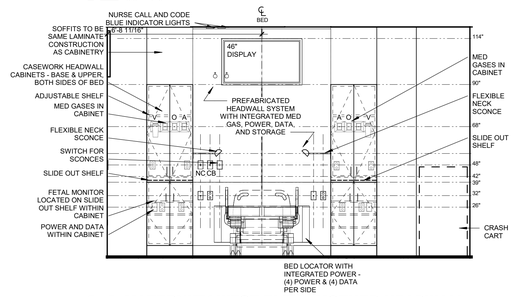
18 MED SURG SIMULATION PLAN
1/4" = 1'-0"



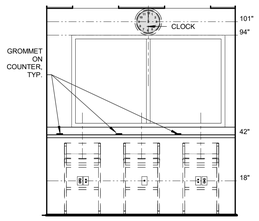
12 MATERNITY NORTH ELEV - INFANT HEADWALL
3/8" = 1'-0"



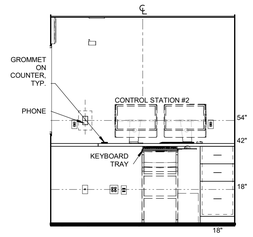
17 MATERNITY CONTROL - WEST
3/8" = 1'-0"



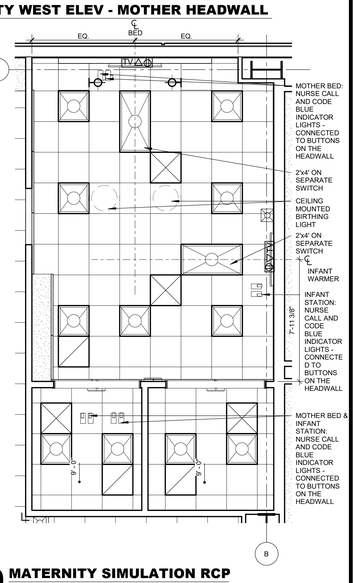
11 MATERNITY WEST ELEV - MOTHER HEADWALL
3/8" = 1'-0"



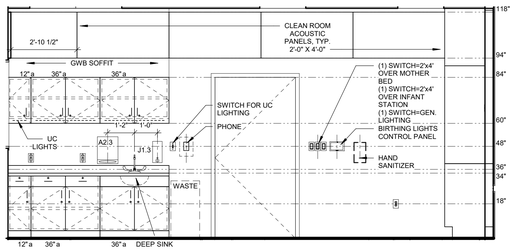
16 MATERNITY OBS - WEST
3/8" = 1'-0"



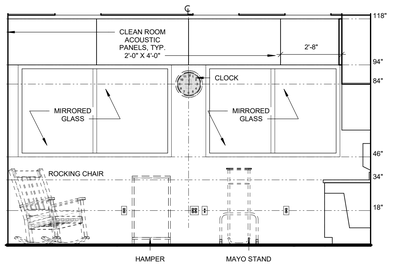
15 MATERNITY CONTROL - NORTH
3/8" = 1'-0"



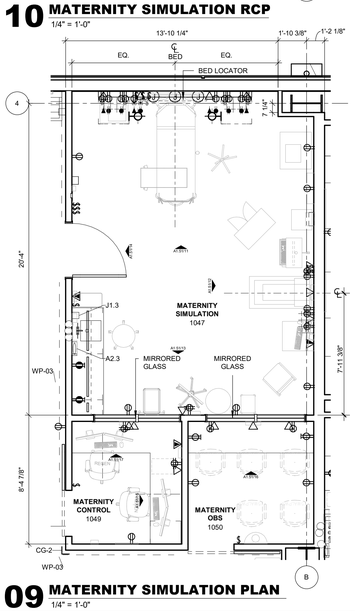
10 MATERNITY SIMULATION RCP
1/4" = 1'-0"



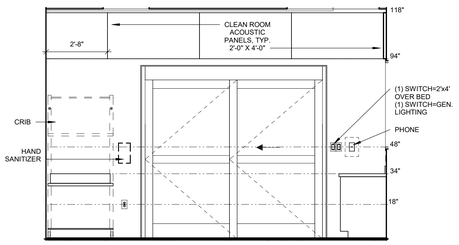
14 MATERNITY SOUTH ELEV
3/8" = 1'-0"



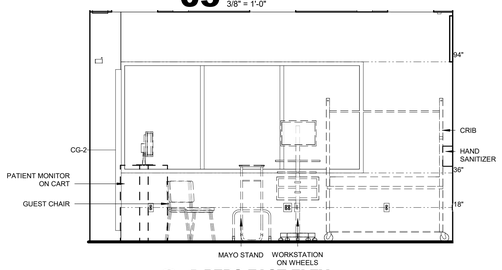
13 MATERNITY EAST ELEV
3/8" = 1'-0"



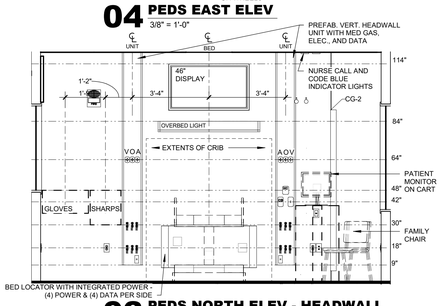
09 MATERNITY SIMULATION PLAN
1/4" = 1'-0"



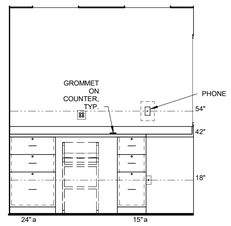
05 PEDS SOUTH ELEV
3/8" = 1'-0"



04 PEDS EAST ELEV
3/8" = 1'-0"



03 PEDS NORTH ELEV - HEADWALL
3/8" = 1'-0"



08 PEDS SIM CONTROL - NORTH
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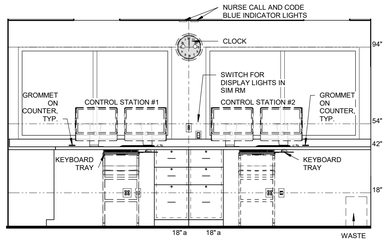
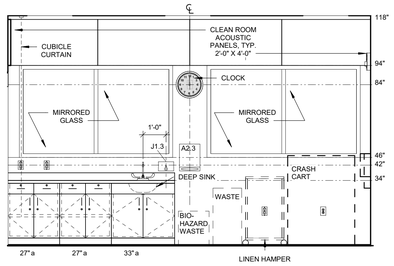
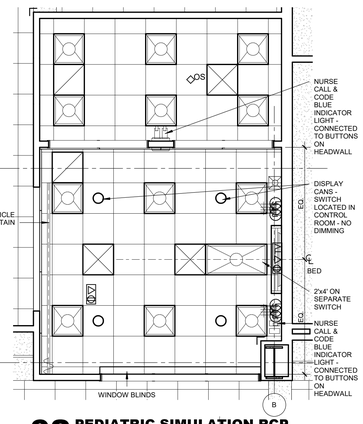


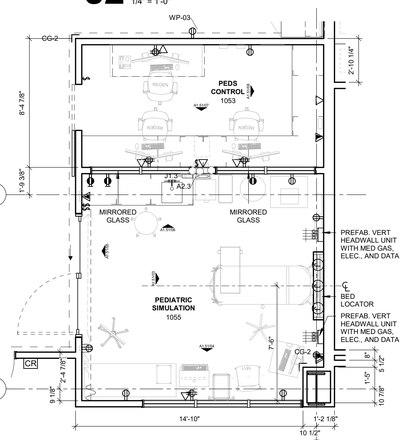
07 PEDS SIM CONTROL - EAST
3/8" = 1'-0"



06 PEDS WEST ELEVATION
3/8" = 1'-0"



02 PEDIATRIC SIMULATION RCP
1/4" = 1'-0"



01 PEDIATRIC SIMULATION PLAN
1/4" = 1'-0"

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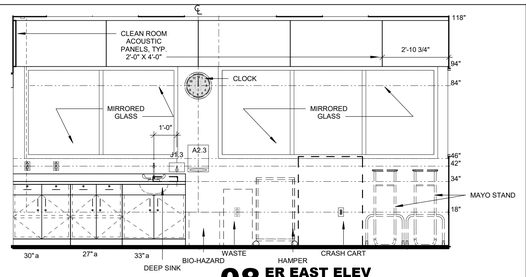
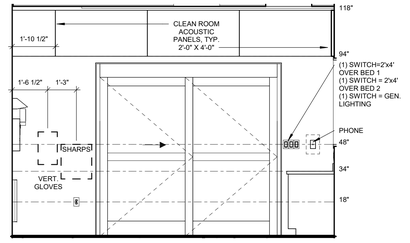
A1.51

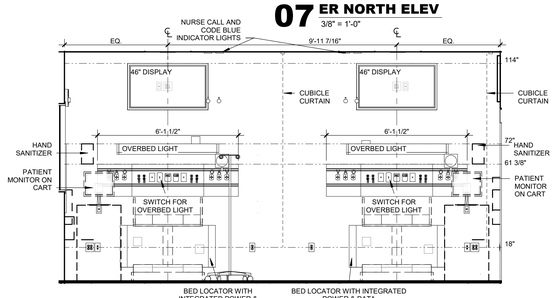
ENLARGED PLANS & ELEVATIONS - SIMULATION SUITE



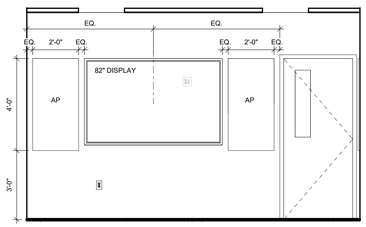
08 ER EAST ELEV
3/8" = 1'-0"



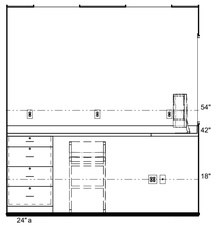
07 ER NORTH ELEV
3/8" = 1'-0"



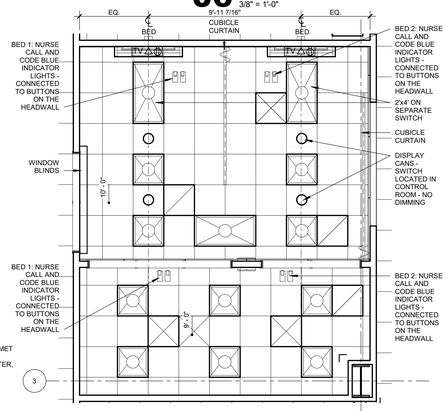
06 ER WEST ELEV - HEADWALL
3/8" = 1'-0"



15 DEBRIEF 2 - EAST
3/8" = 1'-0"

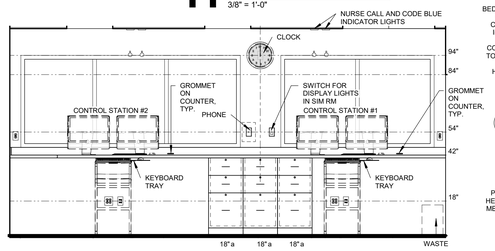


11 ER CONTROL - SOUTH
3/8" = 1'-0"

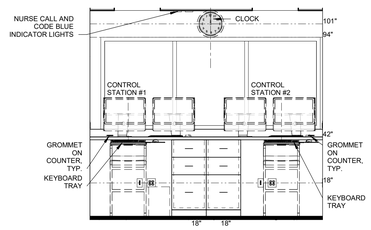


05 ER SIMULATION RCP
1/4" = 1'-0"

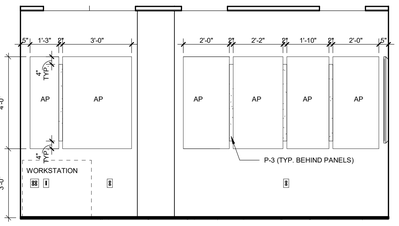
03 MED SURG OBS - EAST
3/8" = 1'-0"



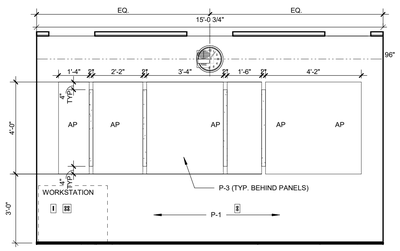
10 ER CONTROL - WEST
3/8" = 1'-0"



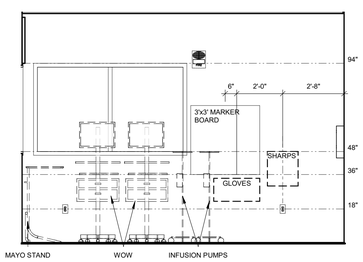
02 MED SURG CONTROL - EAST
3/8" = 1'-0"



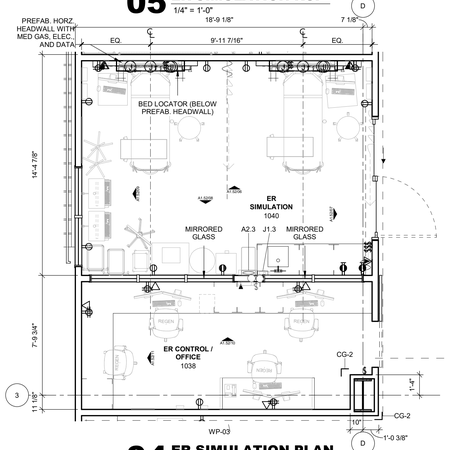
14 DEBRIEF 1 - EAST
3/8" = 1'-0"



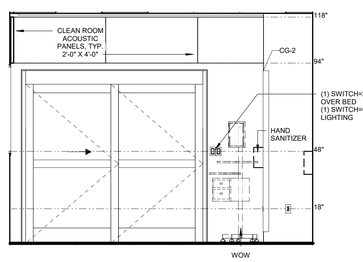
13 DEBRIEF 2 - NORTH
3/8" = 1'-0"



09 ER SOUTH ELEV
3/8" = 1'-0"



04 ER SIMULATION PLAN
1/4" = 1'-0"



01 MED SURG NORTH ELEV
3/8" = 1'-0"

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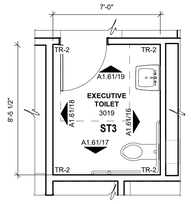
SHEET NUMBER:
A1.52

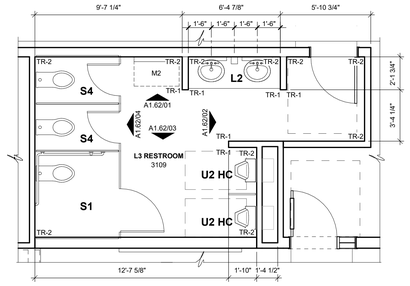
ENLARGED PLANS & ELEVATIONS - SIMULATION SUITE

GENERAL NOTES

1. REFER TO SHEET A 1.64 FOR STANDARD LAYOUTS AND TOILET ACCESSORY INFORMATION.
2. REFER TO A8.00 FOR FINISH INFORMATION



18 T18
1/4" = 1'-0"



17 T17
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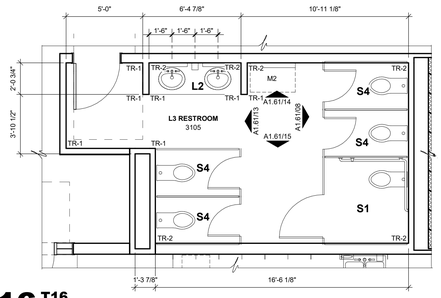
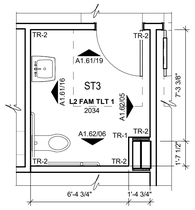
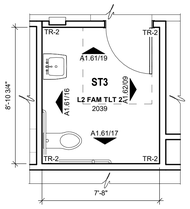


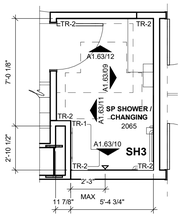
16 T16
1/4" = 1'-0"



15 T15
1/4" = 1'-0"



14 T14
1/4" = 1'-0"



13 T13
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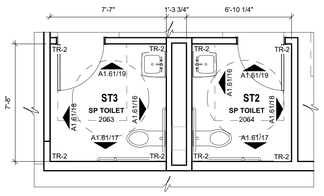

12 T12
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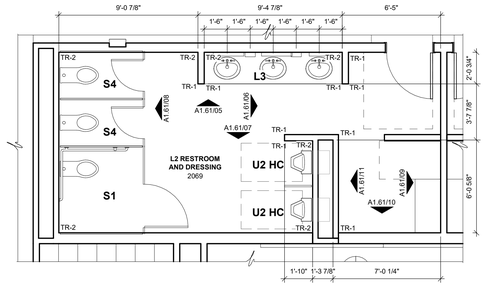
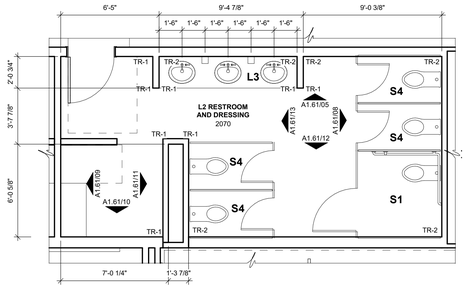
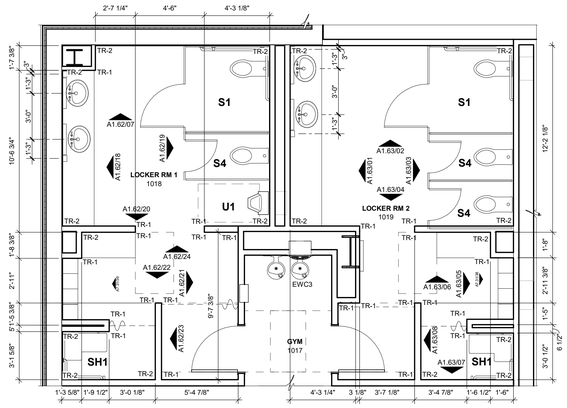


11 T11
1/4" = 1'-0"



10 T10
1/4" = 1'-0"



09 T9
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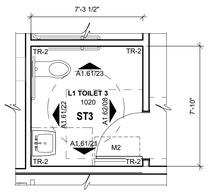

08 T8
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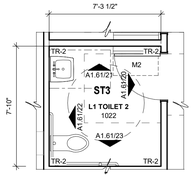

07 T7
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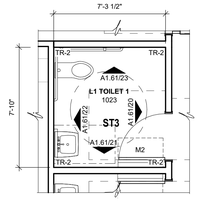

06 T6
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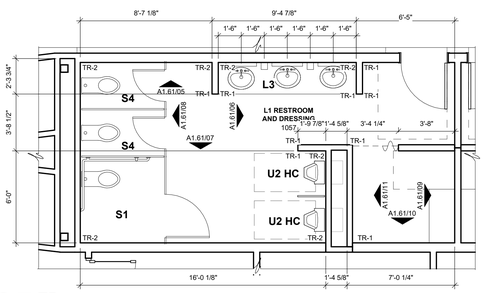

05 T5
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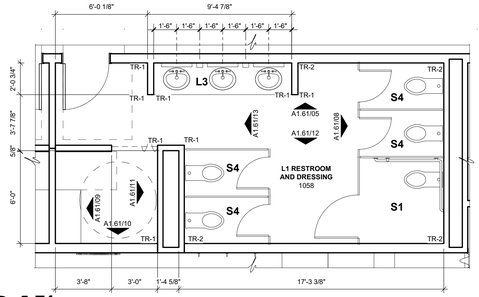

04 T4
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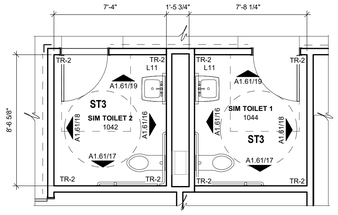

03 T3
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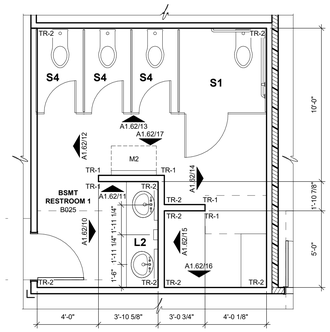

02 T2
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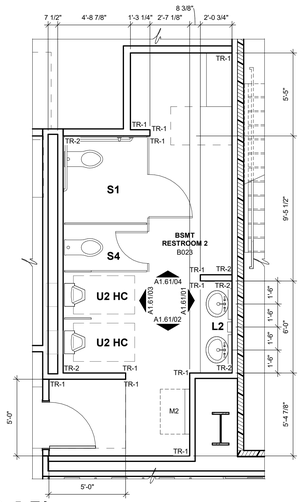

01 T1
1/4" = 1'-0"

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KEY PLAN:

PROJECT PHASE:
95% CONSTRUCTION DOCUMENTS

REVISIONS		
#	DATE	DESCRIPTION

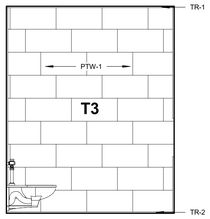
DATE:	JOB NUMBER:
07-26-19	17-13

SHEET NUMBER:
A1.60

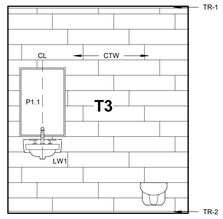
ENLARGED TOILET PLANS

GENERAL NOTES

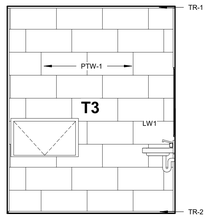
1. REFER TO SHEET A 1.64 FOR STANDARD LAYOUTS AND TOILET ACCESSORY INFORMATION.
2. REFER TO A8.00 FOR FINISH INFORMATION



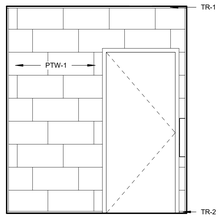
23 TOILET ELEVATION
3/8" = 1'-0" 1023, 1020, 1022



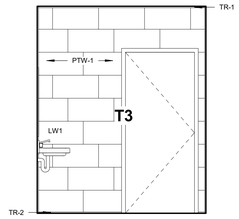
22 TOILET ELEVATION
3/8" = 1'-0" 1023,1020, 1022



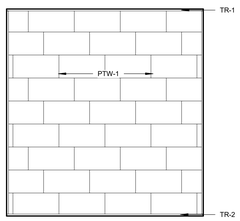
21 TOILET ELEVATION
3/8" = 1'-0" 1023, 1020, 1022



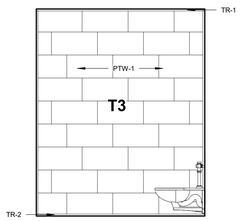
20 TOILET ELEVATION
3/8" = 1'-0" 1023, 1022



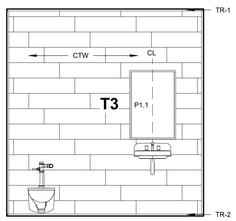
19 TOILET ELEVATION
3/8" = 1'-0" 3019, 2034, 2039, 2064, 2063, 1044, 1042



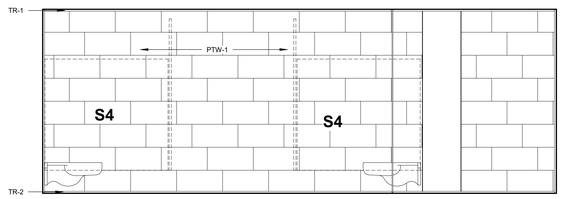
18 TOILET ELEVATION
3/8" = 1'-0" 3019, 2064, 2063, 1044, 1042



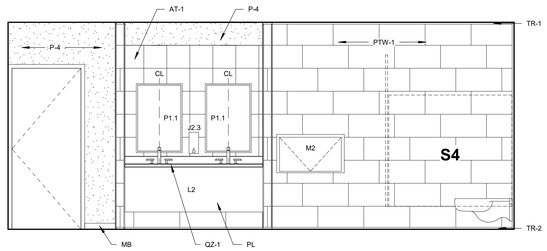
17 TOILET ELEVATION
3/8" = 1'-0" 3019, 2039, 2064, 2063, 1044, 1042



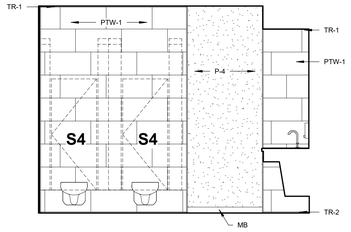
16 TOILET ELEVATION
3/8" = 1'-0" 3019, 2034, 2039, 2064, 2063, 1044, 1042



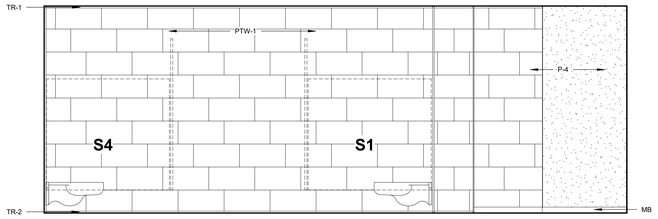
15 TOILET ELEVATION
3/8" = 1'-0" 3105



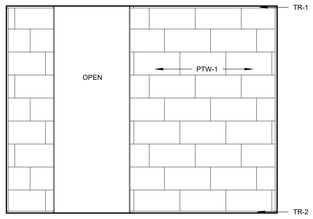
14 TOILET ELEVATION
3/8" = 1'-0" 3105



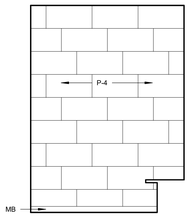
13 TOILET ELEVATION
3/8" = 1'-0" 2070, 3105, 1058



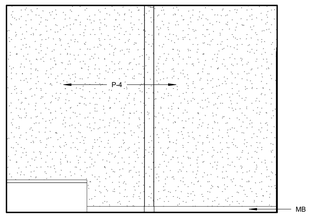
12 TOILET ELEVATION
3/8" = 1'-0" 2070, 1058



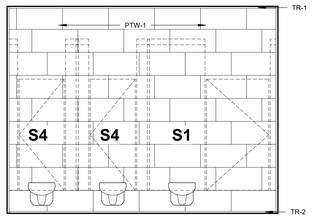
11 TOILET ELEVATION
3/8" = 1'-0" 1057, 2070, 2069, 1058



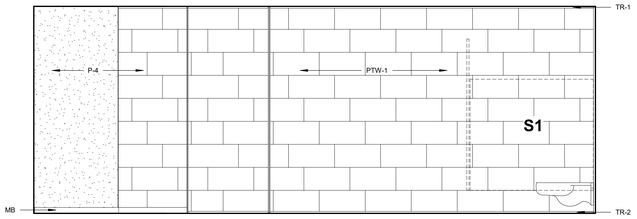
10 TOILET ELEVATION
3/8" = 1'-0" 1057, 2070, 2069, 1058



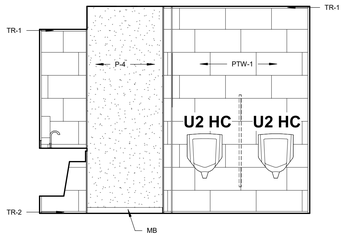
09 TOILET ELEVATION
3/8" = 1'-0" 1057, 2070, 2069, 1058



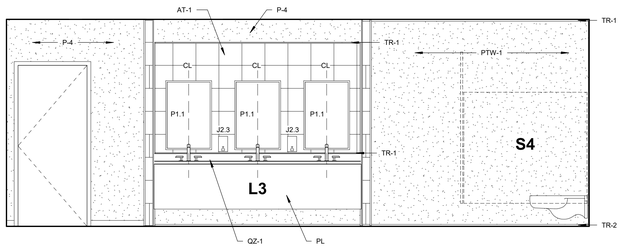
08 TOILET ELEVATION
3/8" = 1'-0" 1057, 2070, 3105, 2069, 1058



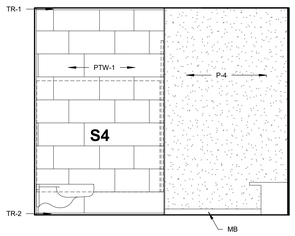
07 TOILET ELEVATION
3/8" = 1'-0" 1057, 2069



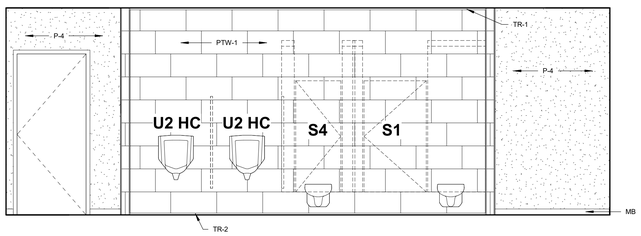
06 TOILET ELEVATION
3/8" = 1'-0" 1057, 2069



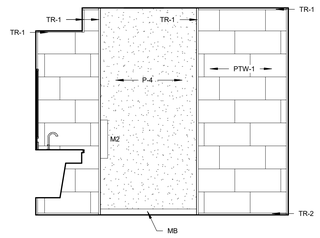
05 TOILET ELEVATION
3/8" = 1'-0" 1057, 2070, 2069, 1058



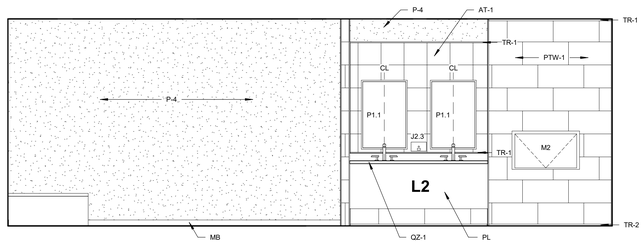
04 TOILET ELEVATION
3/8" = 1'-0" B023



03 TOILET ELEVATION
3/8" = 1'-0" B023



02 TOILET ELEVATION
3/8" = 1'-0" B023



01 TOILET ELEVATION
3/8" = 1'-0" B023

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KEY PLAN:

PROJECT PHASE:
95% CONSTRUCTION DOCUMENTS

REVISIONS:

#	DATE	DESCRIPTION

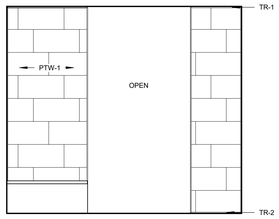
DATE:	JOB NUMBER:
07-26-19	17-13

SHEET NUMBER:
A1.61

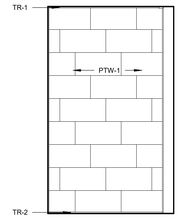
TOILET ELEVATIONS

GENERAL NOTES

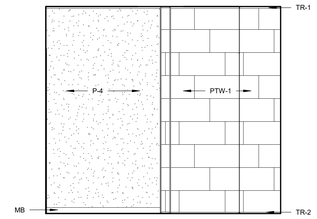
1. REFER TO SHEET A 1.64 FOR STANDARD LAYOUTS AND TOILET ACCESSORY INFORMATION.
2. REFER TO A8.00 FOR FINISH INFORMATION



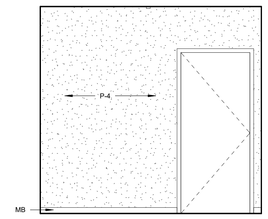
24 TOILET ELEVATION 3/8" = 1'-0" 1018



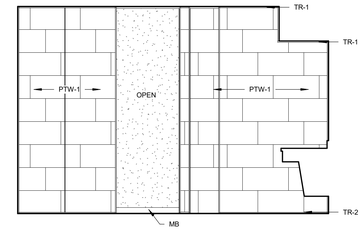
23 TOILET ELEVATION 3/8" = 1'-0" 1018



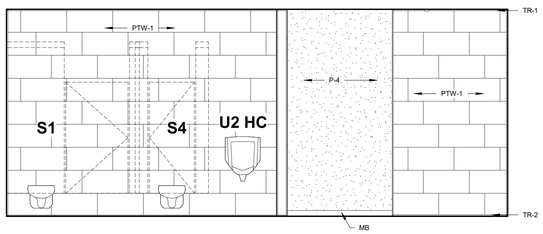
22 TOILET ELEVATION 3/8" = 1'-0" 1018



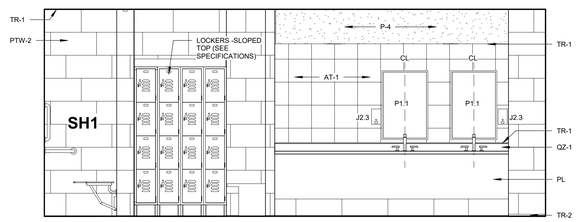
21 TOILET ELEVATION 3/8" = 1'-0"



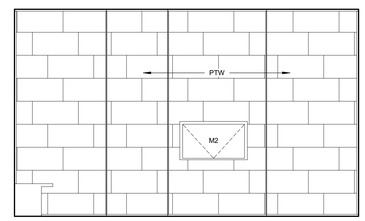
20 TOILET ELEVATION 3/8" = 1'-0" 1018



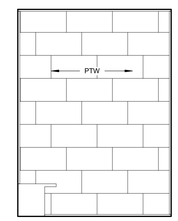
19 TOILET ELEVATION 3/8" = 1'-0" 1018



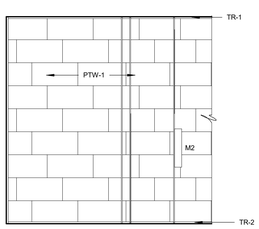
18 TOILET ELEVATION 3/8" = 1'-0" 1018



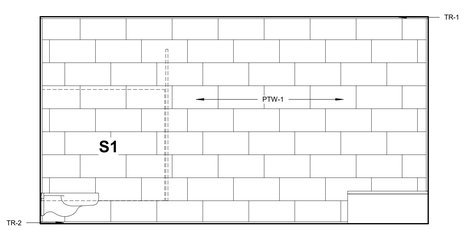
17 TOILET ELEVATION 3/8" = 1'-0" B025



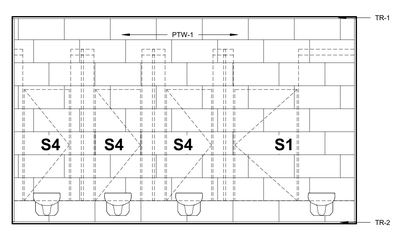
16 TOILET ELEVATION 3/8" = 1'-0" B025



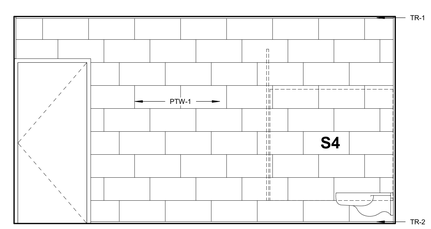
15 TOILET ELEVATION 3/8" = 1'-0" B025



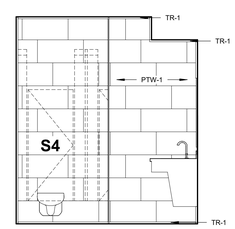
14 TOILET ELEVATION 3/8" = 1'-0" B025



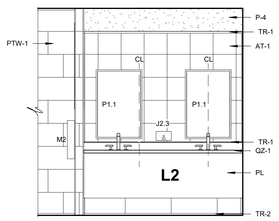
13 TOILET ELEVATION 3/8" = 1'-0" B025



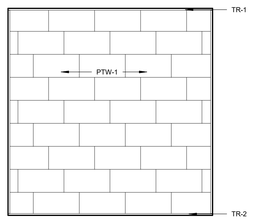
12 TOILET ELEVATION 3/8" = 1'-0" B025



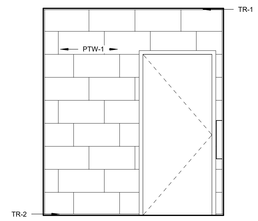
11 TOILET ELEVATION 3/8" = 1'-0" B025



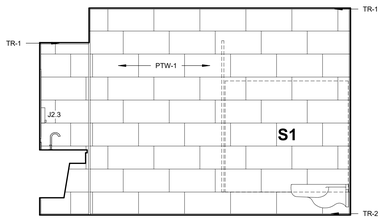
10 TOILET ELEVATION 3/8" = 1'-0" B025



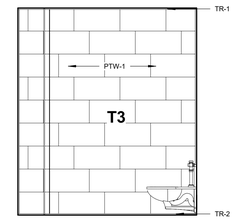
09 A - TE - L2 FAM TLT 2 - EAST 3/8" = 1'-0" 2039



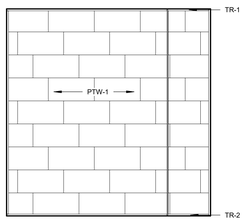
08 A - TE - L1 TOILET 3 - EAST 3/8" = 1'-0" 1020



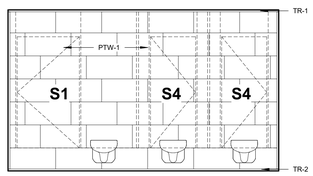
07 TOILET ELEVATION 3/8" = 1'-0" 1018



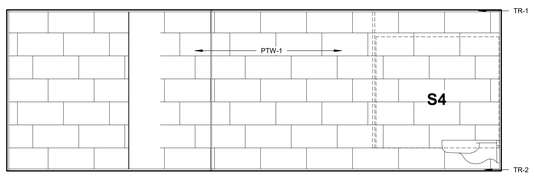
06 TOILET ELEVATION 3/8" = 1'-0" 2034



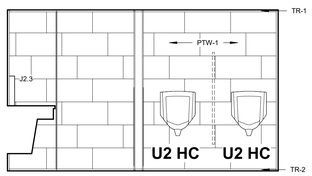
05 TOILET ELEVATION 3/8" = 1'-0" 2034



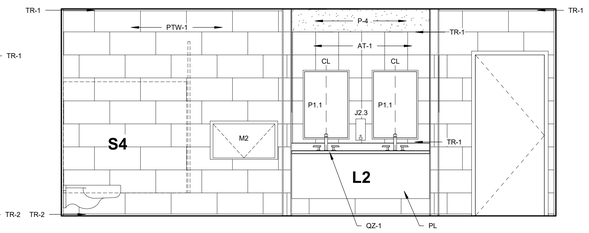
04 TOILET ELEVATION 3/8" = 1'-0" 3109



03 TOILET ELEVATION 3/8" = 1'-0" 3109



02 TOILET ELEVATION 3/8" = 1'-0" 3109



01 TOILET ELEVATION 3/8" = 1'-0" 3109

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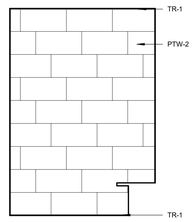
07-26-19	17-13

SHEET NUMBER:
A1.62

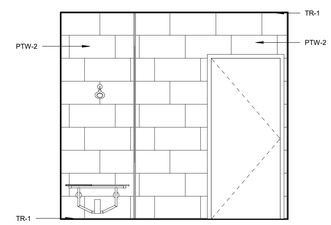
TOILET ELEVATIONS

GENERAL NOTES

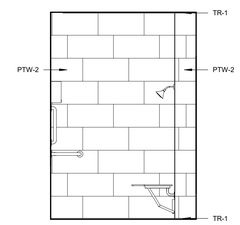
1. REFER TO SHEET A 1.64 FOR STANDARD LAYOUTS AND TOILET ACCESSORY INFORMATION.
2. REFER TO A8.00 FOR FINISH INFORMATION.



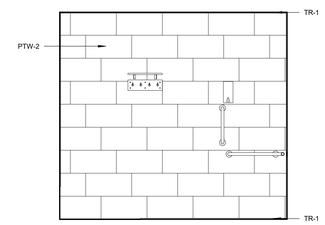
12 SHOWER ELEVATION
3/8" = 1'-0" 2065



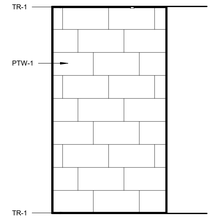
11 SHOWER ELEVATION
3/8" = 1'-0" 2065



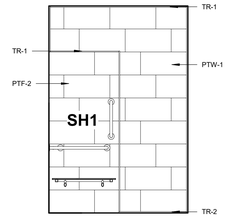
10 SHOWER ELEVATION
3/8" = 1'-0" 2065



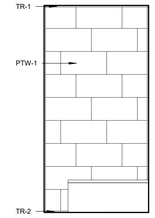
09 SHOWER ELEVATION
3/8" = 1'-0" 2065



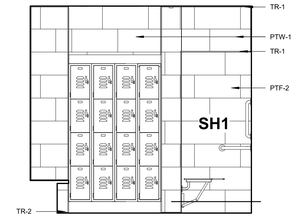
08 A - TE - LOCKER RM 2 - WEST B
3/8" = 1'-0"



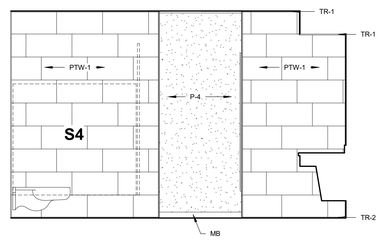
07 TOILET ELEVATION
3/8" = 1'-0" 1019



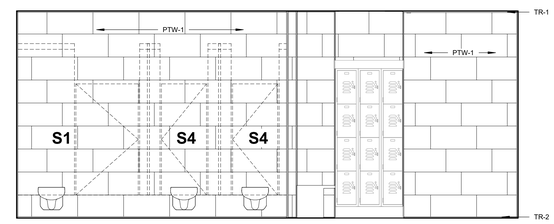
06 TOILET ELEVATION
3/8" = 1'-0" 1019



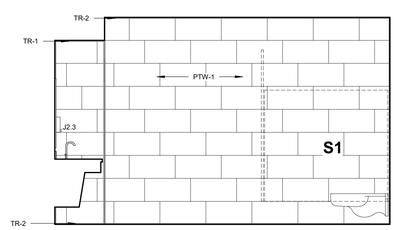
05 TOILET ELEVATION
3/8" = 1'-0" 1019



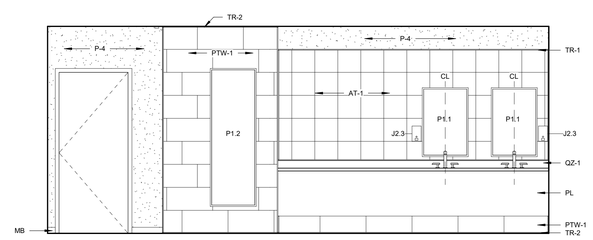
04 TOILET ELEVATION
3/8" = 1'-0" 1019



03 TOILET ELEVATION
3/8" = 1'-0" 1019



02 TOILET ELEVATION
3/8" = 1'-0" 1019



01 TOILET ELEVATION
3/8" = 1'-0" 1019

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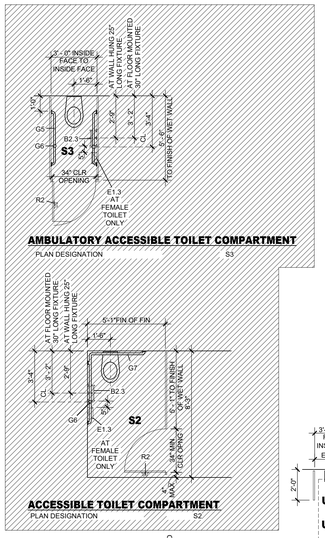
07-26-19	17-13

SHEET NUMBER:
A1.63

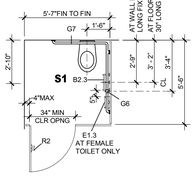
TOILET ELEVATIONS

TOILET STALLS

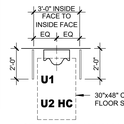
NOTE: LOCATE FLUSH ACTIVATION ON WIDE SIDE AT ALL TOILETS - LOCATE FLUSH VALVE BENEATH ADJACENT GRAB BARS.



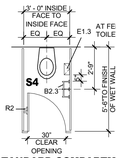
AMBULATORY ACCESSIBLE TOILET COMPARTMENT
PLAN DESIGNATION S3



ACCESSIBLE TOILET COMPARTMENT
PLAN DESIGNATION S1

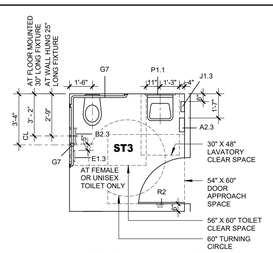


STANDARD URINAL
PLAN DESIGNATION U1
PLAN DESIGNATION U2 @ ACCESSIBLE

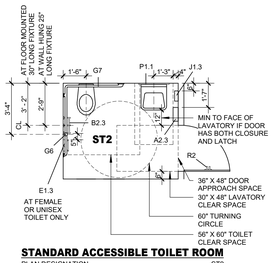


STANDARD COMPARTMENT
PLAN DESIGNATION S4

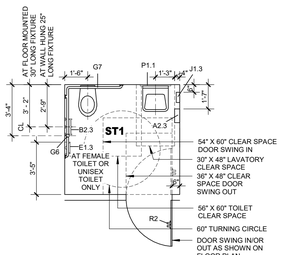
STANDARD TOILET LAYOUTS



STANDARD ACCESSIBLE TOILET ROOM
PLAN DESIGNATION ST3

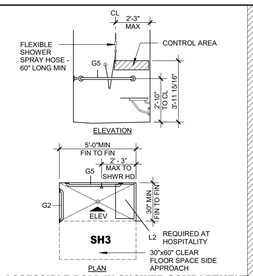


STANDARD ACCESSIBLE TOILET ROOM
PLAN DESIGNATION ST2

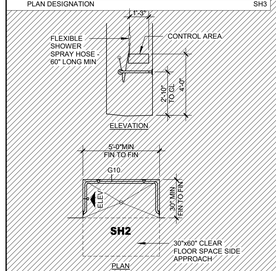


STANDARD ACCESSIBLE TOILET ROOM
PLAN DESIGNATION ST1

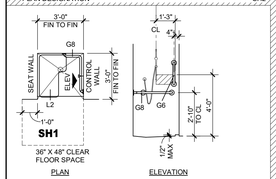
SHOWER / TUB LAYOUTS



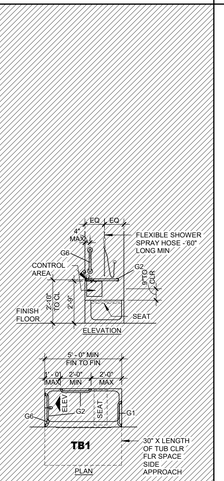
ACCESSIBLE ROLL-IN SHOWER COMPARTMENT WITH GRAB BAR AND FOLDING SHOWER SEAT
PLAN DESIGNATION SH3



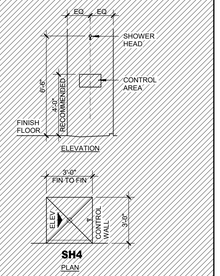
ACCESSIBLE ROLL-IN SHOWER COMPARTMENT STALL WITH GRAB BAR, NO SHOWER SEAT
PLAN DESIGNATION SH2



ACCESSIBLE TRANSFER _____ TYPE SHOWER COMPARTMENT
PLAN DESIGNATION SH1

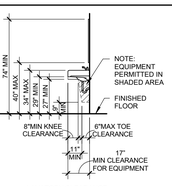


ACCESSIBLE TUB
PLAN DESIGNATION TB1

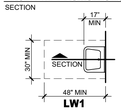


NON-ACCESSIBLE SHOWER
PLAN DESIGNATION SH4

ACCESSIBLE LAVATORIES / EWC



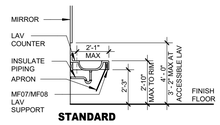
ACCESSIBLE LAVATORY FRONT APPROACH SECTION
SECTION LW1



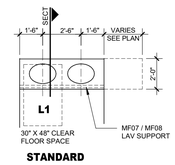
LW1

LW2 AT NON-ACCESSIBLE
CLEAR FLOOR SPACE AT LAVATORY

ACCESSIBLE LAVATORY FRONT APPROACH
PLAN DESIGNATION LW1

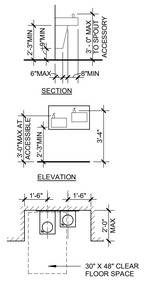


STANDARD ACCESSIBLE LAVATORY
SECTION L1, L2, L3



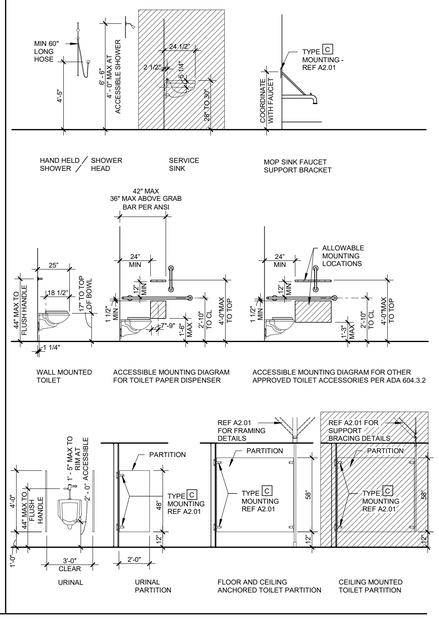
STANDARD ACCESSIBLE LAVATORY
PLAN DESIGNATION L1, L2, L3

NOTE:
1.THE NUMBER (1,2,3, ETC.) REPRESENTS THE NUMBER OF LAVATORIES
2. COORDINATE LAVATORY MF08 SUPPORTS WITH BOWL LOCATIONS.



FOUNTAIN/COOLER HI-LO
PLAN DESIGNATION EWC1

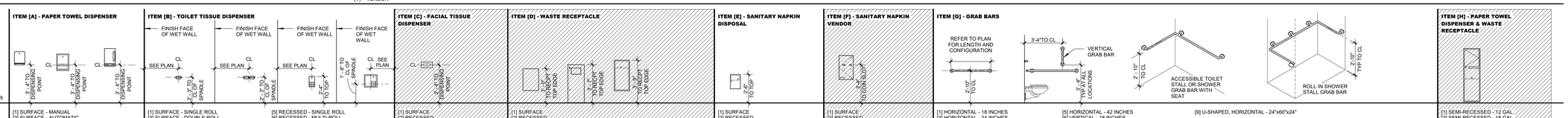
FIXTURE MOUNTING DIAGRAM



TOILET ACCESSORY MOUNTING DIAGRAM

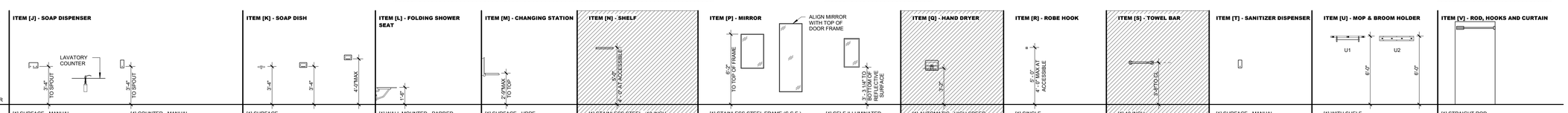
PROVIDED BY - INSTALLED BY
(C) = CONTRACTOR
(O) = OWNER
(V) = VENDOR

TOILET ACCESSORY ITEM



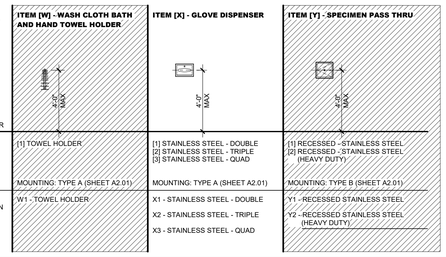
TYPES:	[1] SURFACE - MANUAL [2] SURFACE - AUTOMATIC [3] RECESSED - MANUAL MOUNTING: TYPE A (SHEET A2.01)	[1] SURFACE - SINGLE ROLL [2] SURFACE - DOUBLE ROLL [3] SURFACE - MULTI-ROLL [4] PARTITION-MOUNTED MOUNTING: TYPE A (SHEET A2.01)	[5] RECESSED - SINGLE ROLL [6] RECESSED - MULTI-ROLL	[1] SURFACE [2] RECESSED MOUNTING: TYPE A (SHEET A2.01)	[1] SURFACE [2] RECESSED [3] SEMI-RECESSED [4] UNDER-COUNTER MOUNTING: TYPE A (SHEET A2.01)	[1] SURFACE [2] RECESSED [3] PARTITION-MOUNTED MOUNTING: TYPE A (SHEET A2.01)	[1] SURFACE [2] RECESSED MOUNTING: TYPE A (SHEET A2.01)	[1] HORIZONTAL - 18 INCHES [2] HORIZONTAL - 24 INCHES [3] HORIZONTAL - 30 INCHES [4] HORIZONTAL - 36 INCHES MOUNTING: TYPE C OR D @ BARIATRIC CONDITIONS ONLY (SHEET A2.01)
DRAWING DESIGNATION	A1.1 - SURFACE - MANUAL (C) - (C) A1.2 - SURFACE - MANUAL (O) - (C) A1.3 - SURFACE - MANUAL (O) - (V) A2.1 - SURFACE - AUTOMATIC (C) - (C) A2.2 - SURFACE - AUTOMATIC (O) - (C) A2.3 - SURFACE - AUTOMATIC (O) - (V) A3.1 - RECESSED - MANUAL (C) - (C) A3.2 - RECESSED - MANUAL (O) - (C) A3.3 - RECESSED - MANUAL (O) - (V)	B1.1 - SURFACE - SINGLE ROLL (C) - (C) B1.2 - SURFACE - SINGLE ROLL (O) - (C) B1.3 - SURFACE - SINGLE ROLL (O) - (V) B2.1 - SURFACE - DOUBLE ROLL (C) - (C) B2.2 - SURFACE - DOUBLE ROLL (O) - (C) B2.3 - SURFACE - DOUBLE ROLL (O) - (V) B3.1 - SURFACE - MULTI-ROLL (C) - (C) B3.2 - SURFACE - MULTI-ROLL (O) - (C) B3.3 - SURFACE - MULTI-ROLL (O) - (V) B4.1 - PARTITION-MOUNTED (C) - (C) B4.2 - PARTITION-MOUNTED (O) - (C) B4.3 - PARTITION-MOUNTED (O) - (V)	B5.1 - RECESSED - SINGLE ROLL (C) - (C) B5.2 - RECESSED - SINGLE ROLL (O) - (C) B5.3 - RECESSED - SINGLE ROLL (O) - (V) B6.1 - RECESSED - MULTI-ROLL (C) - (C) B6.2 - RECESSED - MULTI-ROLL (O) - (C) B6.3 - RECESSED - MULTI-ROLL (O) - (V)	C1.1 - SURFACE (C) - (C) C1.2 - SURFACE (O) - (C) C1.3 - SURFACE (O) - (V) C2.1 - RECESSED (C) - (C) C2.2 - RECESSED (O) - (C) C2.3 - RECESSED (O) - (V)	D1.1 - SURFACE (C) - (C) D1.2 - SURFACE (O) - (C) D1.3 - SURFACE (O) - (V) D2.1 - RECESSED (C) - (C) D2.2 - RECESSED (O) - (C) D2.3 - RECESSED (O) - (V) D3.1 - SEMI-RECESSED (C) - (C) D3.2 - SEMI-RECESSED (O) - (C) D3.3 - SEMI-RECESSED (O) - (V) D4.1 - UNDER-COUNTER (C) - (C) D4.2 - UNDER-COUNTER (O) - (C) D4.3 - UNDER-COUNTER (O) - (V)	E1.1 - SURFACE (C) - (C) E1.2 - SURFACE (O) - (C) E1.3 - SURFACE (O) - (V) E2.1 - RECESSED (C) - (C) E2.2 - RECESSED (O) - (C) E2.3 - RECESSED (O) - (V) E3.1 - PARTITION-MOUNTED (C) - (C) E3.2 - PARTITION-MOUNTED (O) - (C) E3.3 - PARTITION-MOUNTED (O) - (V)	F1.1 - SURFACE (C) - (C) F1.2 - SURFACE (O) - (C) F1.3 - SURFACE (O) - (V) F2.1 - RECESSED (C) - (C) F2.2 - RECESSED (O) - (C) F2.3 - RECESSED (O) - (V)	G1 - HORIZONTAL - 18 INCHES G2 - HORIZONTAL - 24 INCHES G3 - HORIZONTAL - 30 INCHES G4 - HORIZONTAL - 36 INCHES	G5 - HORIZONTAL - 42 INCHES G6 - VERTICAL - 18 INCHES G7 - L-SHAPED, HORIZONTAL - 42"x54" G8 - L-SHAPED, HORIZONTAL - 16"x30"	G9 - U-SHAPED, HORIZONTAL - 24"x60"x24" G9 - U-SHAPED, HORIZONTAL - 24"x60"x24"	H1.1 - SEMI-RECESSED -12 GAL. (C) - (C) H1.2 - SEMI-RECESSED -12 GAL. (O) - (C) H1.3 - SEMI-RECESSED -12 GAL. (O) - (V) H2.1 - SEMI-RECESSED -18 GAL. (C) - (C) H2.2 - SEMI-RECESSED -18 GAL. (O) - (C) H2.3 - SEMI-RECESSED -18 GAL. (O) - (V) H3.1 - RECESSED -12 GAL. (C) - (C) H3.2 - RECESSED -12 GAL. (O) - (C) H3.3 - RECESSED -12 GAL. (O) - (V)

TOILET ACCESSORY ITEM



TYPES:	[1] SURFACE - MANUAL [2] SURFACE - AUTOMATIC [3] RECESSED - MANUAL MOUNTING: TYPE A (SHEET A2.01)	[4] COUNTER - MANUAL [5] COUNTER - AUTOMATIC	[1] SURFACE [2] RECESSED [3] RECESSED - CERAMIC	[1] WALL MOUNTED - PADDED [2] WALL MOUNTED - COMPOSITE MOUNTING: TYPE C (SHEET A2.01)	[1] SURFACE - HDPE [2] SURFACE - STAINLESS STEEL [3] RECESSED - HDPE [4] RECESSED - STAINLESS STEEL MOUNTING: TYPE C (SHEET A2.01)	[1] STAINLESS STEEL - 18 INCH [2] SURFACE TOWEL SHELF - 24 INCH [3] FOLDING UTILITY MOUNTING: TYPE A (SHEET A2.01)	[1] STAINLESS STEEL FRAME (S.S.F.) [2] S.S.F. W/ SHELF [3] TILT S.S.F. MOUNTING: TYPE A (SHEET A2.01)	[4] SELF-ILLUMINATED [5] DECORATIVE [ ] 24 x 36 INCHES [_] 24 x 72 INCHES [3] __ x __ INCHES (OTHER)	[1] AUTOMATIC - HIGH SPEED [2] AUTOMATIC SENSOR [3] PUSH BUTTON MOUNTING: TYPE A (SHEET A2.01)	[1] SINGLE [2] DOUBLE MOUNTING: TYPE A (SHEET A2.01)	[1] 18 INCH [2] 24 INCH MOUNTING: TYPE B (SHEET A2.01)	[1] SURFACE - MANUAL [2] SURFACE - AUTOMATIC MOUNTING: TYPE A (SHEET A2.01)	[1] WITH SHELF [2] WITHOUT SHELF MOUNTING: TYPE B (SHEET A2.01)	[1] STRAIGHT ROD [2] CURVED ROD MOUNTING: TYPE B (SHEET A2.01)
DRAWING DESIGNATION	J1.1 - SURFACE - MANUAL (C) - (C) J1.2 - SURFACE - MANUAL (O) - (C) J1.3 - SURFACE - MANUAL (O) - (V) J2.1 - SURFACE - AUTOMATIC (C) - (C) J2.2 - SURFACE - AUTOMATIC (O) - (C) J2.3 - SURFACE - AUTOMATIC (O) - (V) J3.1 - RECESSED - MANUAL (C) - (C) J3.2 - RECESSED - MANUAL (O) - (C) J3.3 - RECESSED - MANUAL (O) - (V)	J4.1 - COUNTER - MANUAL (C) - (C) J4.2 - COUNTER - MANUAL (O) - (C) J4.3 - COUNTER - MANUAL (O) - (V) J5.1 - COUNTER - AUTOMATIC (C) - (C) J5.2 - COUNTER - AUTOMATIC (O) - (C) J5.3 - COUNTER - AUTOMATIC (O) - (V)	K1 - SURFACE K2 - RECESSED K3 - RECESSED - CERAMIC	L1 - WALL - PADDED L2 - WALL - COMPOSITE	M1 - SURFACE - HDPE M2 - SURFACE - STAINLESS STEEL M3 - RECESSED - HDPE M4 - RECESSED - STAINLESS STEEL	N1 - STAINLESS STEEL - 18 INCH N2 - SURFACE TOWEL SHELF - 24 INCH N3 - FOLDING UTILITY	P1.1 - STAINLESS STEEL FRAME P1.2 - STAINLESS STEEL FRAME P2.1 - STAINLESS STEEL FRAME W/ SHELF P3.1 -TILT STAINLESS STEEL FRAME	P4.1 - SELF-ILLUMINATED P4.3 - SELF-ILLUMINATED P5.1 - DECORATIVE	Q1 - AUTOMATIC - HIGH SPEED Q2 - AUTOMATIC SENSOR Q3 - PUSH BUTTON	R1 - SINGLE R2 - DOUBLE	S1 - 18 INCH S2 - 24 INCH	T1.1 - SURFACE - MANUAL T1.2 - SURFACE - MANUAL T1.3 - SURFACE - MANUAL T2.1 - SURFACE - AUTOMATIC T2.2 - SURFACE - AUTOMATIC T2.3 - SURFACE - AUTOMATIC	U1 - WITH SHELF U2 - WITHOUT SHELF	V1 - STRAIGHT ROD V2 - CURVED ROD

TOILET ACCESSORY ITEM



TYPES:	[1] TOWEL HOLDER MOUNTING: TYPE A (SHEET A2.01)	[1] STAINLESS STEEL - DOUBLE [2] STAINLESS STEEL - TRIPLE [3] STAINLESS STEEL - QUAD MOUNTING: TYPE A (SHEET A2.01)	[1] RECESSED - STAINLESS STEEL [2] RECESSED - STAINLESS STEEL (HEAVY DUTY) MOUNTING: TYPE B (SHEET A2.01)
DRAWING DESIGNATION	W1 - TOWEL HOLDER	X1 - STAINLESS STEEL - DOUBLE X2 - STAINLESS STEEL - TRIPLE X3 - STAINLESS STEEL - QUAD	Y1 - RECESSED STAINLESS STEEL Y2 - RECESSED STAINLESS STEEL (HEAVY DUTY)

NOTE:
1. ACCESSORIES CAN APPEAR ON FLOOR PLANS OR INTERIOR ELEVATIONS.
2. THE SHADED PORTIONS ARE NOT INCLUDED IN THE SCOPE OF THE WORK.
3. THE UN-SHADED PORTIONS ARE INTENDED TO BE IN THE SCOPE OF THE WORK.

HATCHING:
INCLUDED IN SCOPE OF WORK
NOT INCLUDED IN SCOPE OF WORK

James R. Childers Architect, Inc.
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CONSULTANT LOGO:

CLIENT:

COLLEGE OF Osteopathic Medicine AT THE CHEROKEE NATION
TAHLEQUAH, OKLAHOMA

KEY PLAN:

PROJECT PHASE:
95% CONSTRUCTION DOCUMENTS

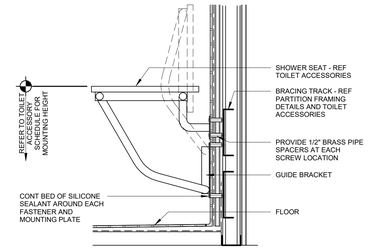
REVISIONS

#	DATE	DESCRIPTION

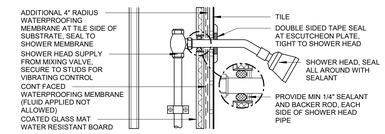
DATE:	JOB NUMBER:
07-26-19	17-13

SHEET NUMBER:
A1.64

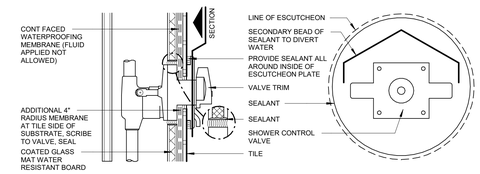
STANDARD TOILET LAYOUT / ACCESSORIES



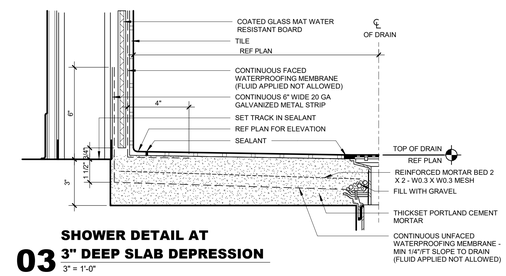
06 ACCESSIBLE SHOWER SEAT PENETRATION DETAIL
1 1/2" = 1'-0"



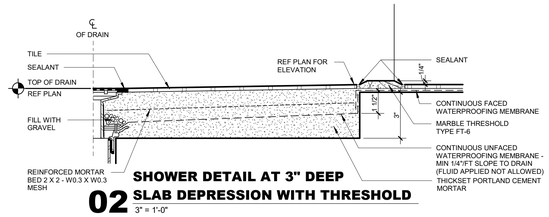
05 SHOWER HEAD PENETRATION DETAIL
3" = 1'-0"



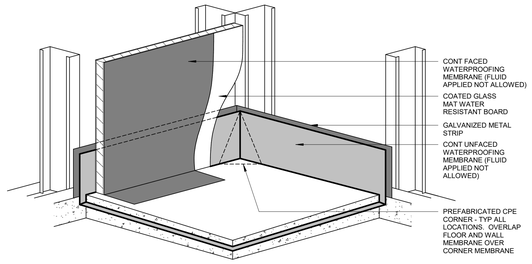
04 SHOWER CONTROL VALVE PENTRATION DETAIL
3" = 1'-0"



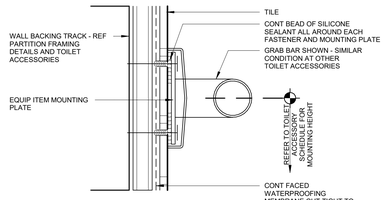
03 SHOWER DETAIL AT 3" DEEP SLAB DEPRESSION
3" = 1'-0"



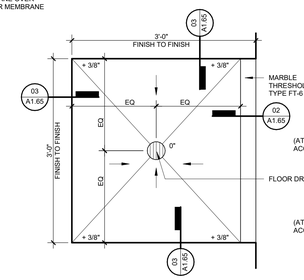
02 SHOWER DETAIL AT 3" DEEP SLAB DEPRESSION WITH THRESHOLD
3" = 1'-0"

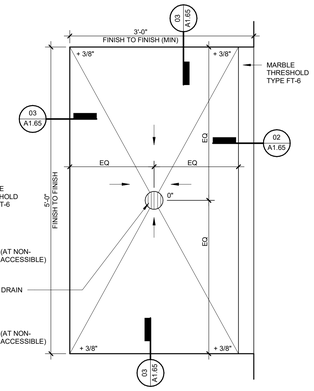


08 CORNER AT SHOWER WITH SLAB DEPRESSION
1 1/2" = 1'-0"



07 TOILET ACCESSORIES PENETRATION DETAIL AT TILED WALL
6" = 1'-0"





01 SHOWER REFERENCE PLAN WITH SLAB DEPRESSION THRESHOLD
1" = 1'-0"

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KEY PLAN:

PROJECT PHASE:
95% CONSTRUCTION DOCUMENTS

REVISIONS

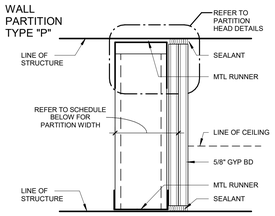
#	DATE	DESCRIPTION

DATE:	JOB NUMBER:
07-26-19	17-13

SHEET NUMBER:
A1.65

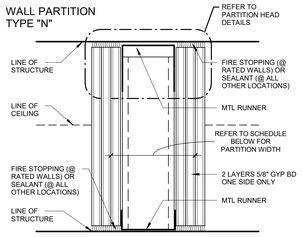
SHOWER DETAILS

WALL PARTITION TYPE "P"



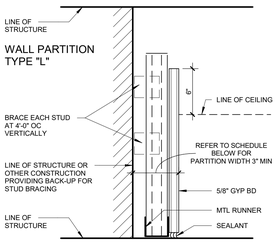
FLOOR PLAN DESIGNATION	STUD SIZE	PART WIDTH	FIRE RATING	UL LISTING	SOUND TRANS CLASS	REMARKS
P2	2 1/2"	3 3/4"	NON-RATED	N/A	N/A	
P3	3 5/8"	4 7/8"	NON-RATED	N/A	N/A	
P6	6"	7 1/4"	NON-RATED	N/A	N/A	

WALL PARTITION TYPE "N"



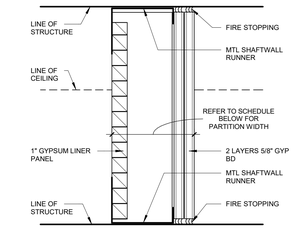
FLOOR PLAN DESIGNATION	STUD SIZE	PART WIDTH	FIRE RATING	UL LISTING	STC: NO SOUND / WITH SOUND	REMARKS
N3	3 5/8"	7 3/8"	NON-RATED	N/A	44 / 60 W/3" SAB	
N6	6"	8 3/4"	NON-RATED	N/A	44 / 60 W/3" SAB	

WALL PARTITION TYPE "L"



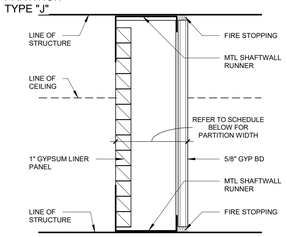
FLOOR PLAN DESIGNATION	STUD SIZE	PART WIDTH	FIRE RATING	UL LISTING	SOUND TRANS CLASS	REMARKS
L1	1 5/8"	3"	NON-RATED	N/A	N/A	
L2	2 1/2"	4"	NON-RATED	N/A	N/A	
L3	3 5/8"	5"	NON-RATED	N/A	N/A	

WALL PARTITION TYPE "K"



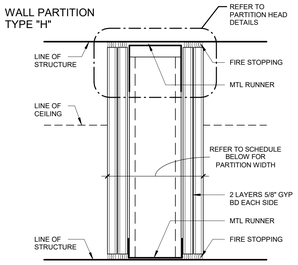
FLOOR PLAN DESIGNATION	STUD SIZE	PART WIDTH	FIRE RATING	UL LISTING	STC: NO SOUND / WITH SOUND	REMARKS
K2	2 1/2"	3 3/4"	TWO HOUR	U438	39 / 47 W/1 1/2" SAB	
K4	4"	5 1/4"	TWO HOUR	U438	39 / 47 W/3" SAB	
K6	6"	7 1/4"	TWO HOUR	U438	39 / 47 W/3" SAB	

WALL PARTITION TYPE "J"



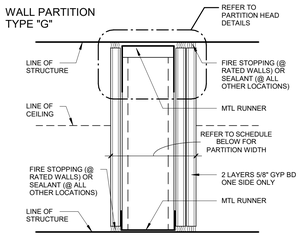
FLOOR PLAN DESIGNATION	STUD SIZE	PART WIDTH	FIRE RATING	UL LISTING	STC: NO SOUND / WITH SOUND	REMARKS
J2	2 1/2"	3 1/8"	ONE HOUR	U469	36 / 44 W/1 1/2" SAB	
J4	4"	4 5/8"	ONE HOUR	U469	36 / 44 W/3" SAB	
J6	6"	6 5/8"	ONE HOUR	U469	36 / 44 W/3" SAB	

WALL PARTITION TYPE "H"



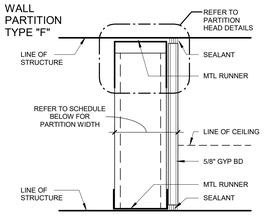
FLOOR PLAN DESIGNATION	STUD SIZE	PART WIDTH	FIRE RATING	UL LISTING	STC: NO SOUND / WITH SOUND	REMARKS
H2	2 1/2"	5"	NON-RATED	N/A	48 / 55 W/3" SAB	
H3	3 5/8"	6 1/8"	NON-RATED	N/A	48 / 56 W/3" SAB	
H6	6"	8 1/2"	NON-RATED	N/A	48 / 56 W/3" SAB	
H2	2 1/2"	5"	TWO HOUR	U411	48 / 56 W/3" SAB	
H3	3 5/8"	6 1/8"	TWO HOUR	U411	48 / 56 W/3" SAB	
H6	6"	8 1/2"	TWO HOUR	U411	48 / 56 W/3" SAB	
H2	2 1/2"	5"	TWO HOUR/ SMOKE RESIST	U411	48 / 56 W/3" SAB	
H3	3 5/8"	6 1/8"	TWO HOUR/ SMOKE RESIST	U411	48 / 56 W/3" SAB	
H6	6"	8 1/2"	TWO HOUR/ SMOKE RESIST	U411	48 / 56 W/3" SAB	

WALL PARTITION TYPE "G"



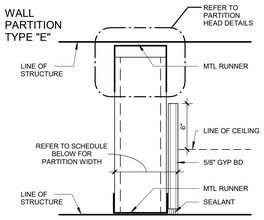
FLOOR PLAN DESIGNATION	STUD SIZE	PART WIDTH	FIRE RATING	UL LISTING	STC: NO SOUND / WITH SOUND	REMARKS
G2	2 1/2"	4 5/8"	NON-RATED	N/A	44 / 51 W/3" SAB	
G3	3 5/8"	5 1/2"	NON-RATED	N/A	44 / 51 W/3" SAB	
G6	6"	7 7/8"	NON-RATED	N/A	44 / 51 W/3" SAB	
G2	2 1/2"	4 5/8"	SMOKE RESIST	N/A	44 / 51 W/3" SAB	
G3	3 5/8"	5 1/2"	SMOKE RESIST	N/A	44 / 51 W/3" SAB	
G6	6"	7 7/8"	SMOKE RESIST	N/A	44 / 51 W/3" SAB	
G2	2 1/2"	4 5/8"	ONE HOUR	U419	44 / 51 W/3" SAB	
G3	3 5/8"	5 1/2"	ONE HOUR	U419	44 / 51 W/3" SAB	
G6	6"	7 7/8"	ONE HOUR	U419	44 / 51 W/3" SAB	
G2	2 1/2"	4 5/8"	ONE HOUR/ SMOKE RESIST	U419	44 / 51 W/3" SAB	
G3	3 5/8"	5 1/2"	ONE HOUR/ SMOKE RESIST	U419	44 / 51 W/3" SAB	
G6	6"	7 7/8"	ONE HOUR/ SMOKE RESIST	U419	44 / 51 W/3" SAB	

WALL PARTITION TYPE "F"



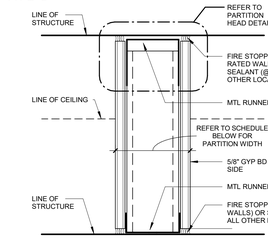
FLOOR PLAN DESIGNATION	STUD SIZE	PART WIDTH	FIRE RATING	UL LISTING	SOUND TRANS CLASS	REMARKS
F2	2 1/2"	3 1/8"	NON-RATED	N/A	N/A	
F3	3 5/8"	4 1/4"	NON-RATED	N/A	N/A	
F6	6"	6 5/8"	NON-RATED	N/A	N/A	

WALL PARTITION TYPE "E"



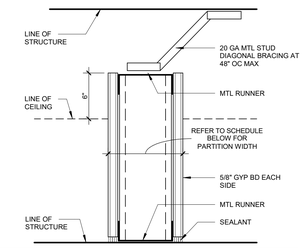
FLOOR PLAN DESIGNATION	STUD SIZE	PART WIDTH	FIRE RATING	UL LISTING	SOUND TRANS CLASS	REMARKS
E2	2 1/2"	3 1/8"	NON-RATED	N/A	N/A	
E3	3 5/8"	4 1/4"	NON-RATED	N/A	N/A	
E6	6"	6 5/8"	NON-RATED	N/A	N/A	

WALL PARTITION TYPE "B"



FLOOR PLAN DESIGNATION	STUD SIZE	PART WIDTH	FIRE RATING	UL LISTING	STC: NO SOUND / WITH SOUND	REMARKS
B2	2 1/2"	3 3/4"	NON-RATED	N/A	40 / 49 W/3" SAB	
B3	3 5/8"	4 7/8"	NON-RATED	N/A	40 / 49 W/3" SAB	
B6	6"	7 1/4"	NON-RATED	N/A	40 / 49 W/3" SAB	
B2	2 1/2"	3 3/4"	SMOKE RESIST	N/A	40 / 49 W/3" SAB	
B3	3 5/8"	4 7/8"	SMOKE RESIST	N/A	40 / 49 W/3" SAB	
B6	6"	7 1/4"	SMOKE RESIST	N/A	40 / 49 W/3" SAB	
B2	2 1/2"	3 3/4"	ONE HOUR	N/A	40 / 49 W/3" SAB	
B3	3 5/8"	4 7/8"	ONE HOUR	U465	40 / 49 W/3" SAB	
B6	6"	7 1/4"	ONE HOUR	U465	40 / 49 W/3" SAB	
B2	2 1/2"	3 3/4"	ONE HOUR/ SMOKE RESIST	N/A	40 / 49 W/3" SAB	
B3	3 5/8"	4 7/8"	ONE HOUR/ SMOKE RESIST	U465	40 / 49 W/3" SAB	
B6	6"	7 1/4"	ONE HOUR/ SMOKE RESIST	U465	40 / 49 W/3" SAB	

WALL PARTITION TYPE "A"



FLOOR PLAN DESIGNATION	STUD SIZE	PART WIDTH	FIRE RATING	UL LISTING	SOUND TRANS CLASS	REMARKS
A2	2 1/2"	3 3/4"	NON-RATED	N/A	N/A	
A3	3 5/8"	4 7/8"	NON-RATED	N/A	N/A	
A6	6"	7 1/4"	NON-RATED	N/A	N/A	

NOTES

1. PARTITIONS ARE DISTINGUISHED ON FLOOR PLANS BY SYMBOL DESIGNATION, GRAPHIC DESIGNATION OR A COMBINATION OF BOTH DESIGNATIONS.
2. THERE ARE TWO TYPES OF SYMBOL DESIGNATIONS, ONE FOR PARTITONS NOT REQUIRING SOUND ATTENUATION AND ANOTHER FOR PARTITIONS WHICH REQUIRE SOUND ATTENUATION. REFER TO PARTITION MATRICES FOR SOUND ATTENUATION BLANKET (SAB) MINIMUM THICKNESS FOR STC INDICATED.

BARRIERS:	DESIGNATION	EXAMPLE	COMMENTS
SOUND:	(S)	A3(S)	
LEAD LINED:	(L)	A3(L)	EXTEND UP TO 7'-0" A.F.F.
SECURITY:	(P)	A3(P)	EXTEND FULL HEIGHT

3. THE INDIVIDUAL BARRIERS SHALL BE LOCATED ON THE SIDE OF THE PARTITION ADJACENT TO THEIR RESPECTIVE SPACES. IF MULTIPLE BARRIERS ARE INCORPORATED INTO THE SAME PARTITION, THEN THEY SHOULD BE DISPLAYED ACCORDINGLY. REFER TO THE FOLLOWING EXAMPLE: (S/LP)
4. WALL PARTITION SIZE MATRIX:

NO.	CMU	SHAFTWALL	METAL STUDS
1	-	-	1 5/8"
2	-	2 1/2"	2 1/2"
3	-	-	3 5/8"
4	-	4"	-
6	5 5/8"	6"	6"
8	7 5/8"	-	8"
10	9 5/8"	-	10"
12	11 5/8"	-	12"

5. THE GRAPHIC DESIGNATION IS INCORPORATED FOR PARTITIONS REQUIRED TO BE SMOKE RESISTANT, FIRE RESISTANT, OR BOTH FIRE AND SMOKE RESISTANT. REFER TO NOTE 16.
6. "LINE OF STRUCTURE" INDICATED FOR EACH PARTITION IS DIAGRAMMATIC ONLY AND DOES NOT INDICATE EXACT CONSTRUCTION CONDITIONS OR GEOMETRY.
7. ALL DIMENSIONS ARE FROM FACE OF GYPSUM BOARD TO FACE OF GYPSUM BOARD. REFER TO PARTITION MATRICES FOR PARTITION WIDTH DIMENSIONS UNLESS INDICATED TO BE SHOWN ON PLAN.
8. FIRE SEALANT:
   1. FIRE RESISTANCE RATED PARTITIONS SHALL USE RATED FIRE/SMOKE FIRE RESISTANT FILL MATERIAL IN CONJUNCTION WITH AN APPROPRIATE RATED FIRE/SMOKE FIRE STOPPING SYSTEM.
   2. NON-RATED PARTITIONS AND NON-RATED SMOKE RESISTANT PARTITIONS SHALL USE ACOUSTICAL SEALANT.
9. INSULATION: - HEAD CONDITIONS AT FLOOR/ROOF DECK
   1. FIRE RESISTANCE RATED PARTITIONS SHALL USE MINERAL WOOL INSULATION.
   2. NON-RATED PARTITIONS REQUIRING SOUND ATTENUATION SHALL USE SOUND ATTENUATION BLANKETS (SAB).
   3. PROVIDE FULL THICKNESS INSULATION INSIDE ALL STUD BOX BEAMS AND HEADERS WHICH OCCUR IN WALLS WITH SOUND ATTENUATION.
10. REFER TO SPECIFICATIONS FOR MINIMUM STUD THICKNESS, MAXIMUM SPACING AND ALLOWABLE LIMITING HEIGHTS DEFLECTION CRITERIA FOR GYPSUM BOARD ASSEMBLIES.
11. FOR PARTITIONS INDICATED TO RECEIVE SOUND ATTENUATION BLANKETS (SAB), EXTEND SAB TO FULL HEIGHT OF PARTITION UNLESS OTHERWISE INDICATED. FLOOR TRACK TO BE SET IN A CONT BED OF SEALANT.
12. FIRE RESISTANT AND FIRE RESISTANT SMOKE BARRIER RATINGS ARE TO SURROUND ALL OPENINGS IN RATED PARTITIONS.
13. SMOKE RESISTANT, FIRE RESISTANT, AND FIRE RESISTANT SMOKE BARRIER PARTITIONS SHALL EXTEND AND SEAL TO INSIDE FACE OF EXTERIOR GYPSUM SHEATHING, INCLUDING EXTENSIONS THROUGH SOFFITS.
14. EACH PARTITION SHOWN ON THE DRAWINGS TO HAVE A FIRE AND SMOKE RESISTANT RATING SHALLBE IDENTIFIED AS SUCH WITH A LABEL ABOVE THE CEILING ON EACH SEGMENT OF THE WALL AND 6' - 0" OC MAX EACH SIDE.
15. REFER TO STRUCTURAL DRAWINGS FOR REINFORCING INFORMATION.
16. GRAPHIC DESIGNATION
    - 2 HR SMOKE BARRIER
    - 2 HR FIRE BARRIER
    - 2 HR FIRE BARRIER/SHAFT WALL
    - 1 HR SMOKE BARRIER
    - 1 HR FIRE BARRIER
    - 1 HR FIRE BARRIER/SHAFT WALL
    - SMOKE PARTITION (NON RATED)
17. DO NOT APPLY BULLNOSE BLOCK AT CORNER GUARD LOCATIONS.
18. MASONRY REINFORCEMENT: REFERENCE STRUCTURAL DRAWINGS.
19. HW (HEAD OF WALL) DETAILS DO NOT ALTER PARTITION TYPES NOTED ON PLANS.

NOTE:

1. NOT ALL PARTITION TYPES SHOWN ON THIS SHEET ARE USED ON THIS PROJECT.
2. THE SHADED PORTIONS OF A PARTITION TYPE ARE NOT INCLUDED IN THE SCOPE OF THE WORK.
3. THE UN-SHADED PORTIONS OF ALL PARTITION TYPES ARE INTENDED TO BE IN THE SCOPE OF THE WORK.

HATCHING:

PARTITION TYPE INCLUDED IN SCOPE OF WORK

PARTITION TYPE NOT INCLUDED IN SCOPE OF WORK

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PROFESSIONAL SEAL:

CONSULTANT LOGO:

CLIENT:

COLLEGE OF Osteopathic Medicine AT THE CHEROKEE NATION

TAHLEQUAH, OKLAHOMA

KEY PLAN:

PROJECT PHASE:

95% CONSTRUCTION DOCUMENTS

REVISIONS

#	DATE	DESCRIPTION

DATE: 07-26-19

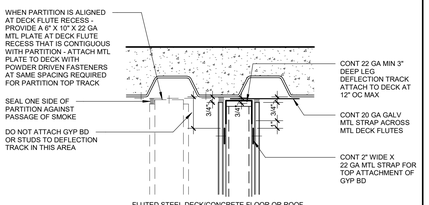
JOB NUMBER: 17-13

SHEET NUMBER:

A2.00

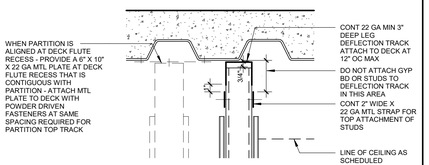
PARTITION TYPES

HEAD DETAILS - NON RATED



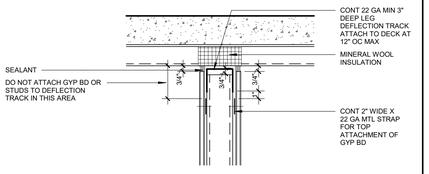
FLUTED STEEL DECK/CONCRETE FLOOR OR ROOF PARALLEL TO FLUTES

NON-RATED OR SMOKE RESISTANT



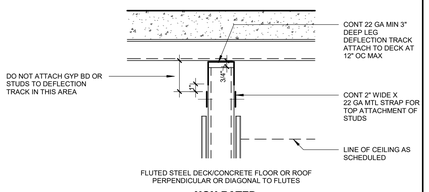
FLUTED STEEL DECK/CONCRETE FLOOR OR ROOF PARALLEL TO FLUTES

NON-RATED



FLUTED STEEL DECK/CONCRETE FLOOR OR ROOF PERPENDICULAR OR DIAGONAL TO FLUTES

NON-RATED OR SMOKE RESISTANT



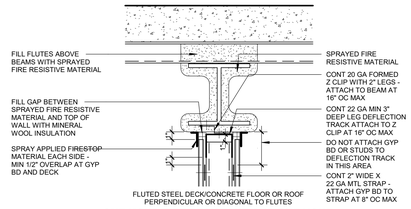
FLUTED STEEL DECK/CONCRETE FLOOR OR ROOF PERPENDICULAR OR DIAGONAL TO FLUTES

NON-RATED

HEAD OF WALL GENERAL NOTES

1. REFER TO SPECIFICATIONS FOR HEAD OF WALL SLOTTED TRACK OPTIONS FOR METAL STUD WALLS. CONT 2" WIDE X 22 GA METAL STRAP CAN BE DELETED IF OPTIONAL SLOTTED TRACKS ARE SELECTED.

HEAD DETAILS - ONE HOUR RATED

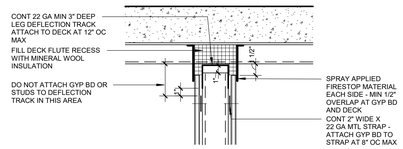


FLUTED STEEL DECK/CONCRETE FLOOR OR ROOF PERPENDICULAR OR DIAGONAL TO FLUTES

ONE HOUR FIRE RESISTANT AND ONE HOUR FIRE RESISTANT SMOKE BARRIER

UL-HW-D-0252

NOTE:
REFER TO UL LISTING FOR COMPLETE ASSEMBLY REQUIREMENTS

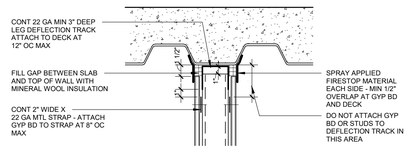


FLUTED STEEL DECK/CONCRETE FLOOR OR ROOF PERPENDICULAR OR DIAGONAL TO FLUTES

ONE HOUR FIRE RESISTANT AND ONE HOUR FIRE RESISTANT SMOKE BARRIER

UL-HW-D-0107

NOTE:
REFER TO UL LISTING FOR COMPLETE ASSEMBLY REQUIREMENTS



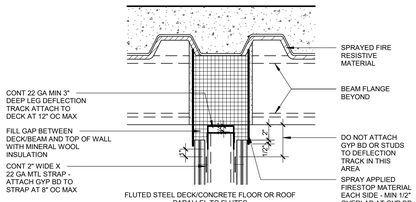
FLUTED STEEL DECK/CONCRETE FLOOR OR ROOF PARALLEL TO FLUTES

ONE HOUR FIRE RESISTANT AND ONE HOUR FIRE RESISTANT SMOKE BARRIER

UL-HW-D-0107

NOTE:
REFER TO UL LISTING FOR COMPLETE ASSEMBLY REQUIREMENTS

HEAD DETAILS - TWO HOUR RATED

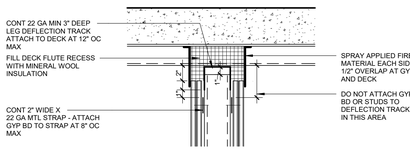


FLUTED STEEL DECK/CONCRETE FLOOR OR ROOF PARALLEL TO FLUTES

TWO HOUR FIRE RESISTANT AND TWO HOUR FIRE RESISTANT SMOKE BARRIER

UL-HW-D-0218

NOTE:
REFER TO UL LISTING FOR COMPLETE ASSEMBLY REQUIREMENTS

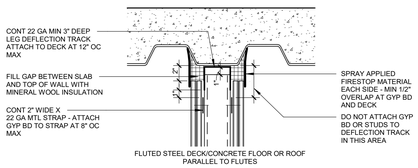


FLUTED STEEL DECK/CONCRETE FLOOR OR ROOF PERPENDICULAR OR DIAGONAL TO FLUTES

TWO HOUR FIRE RESISTANT AND TWO HOUR FIRE RESISTANT SMOKE BARRIER

UL-HW-D-0107

NOTE:
REFER TO UL LISTING FOR COMPLETE ASSEMBLY REQUIREMENTS

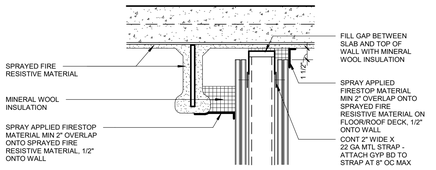


FLUTED STEEL DECK/CONCRETE FLOOR OR ROOF PARALLEL TO FLUTES

TWO HOUR FIRE RESISTANT AND TWO HOUR FIRE RESISTANT SMOKE BARRIER

UL-HW-D-0299

NOTE:
REFER TO UL LISTING FOR COMPLETE ASSEMBLY REQUIREMENTS

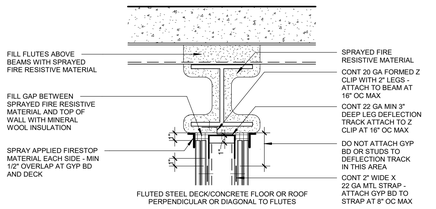


FLUTED STEEL DECK/CONCRETE FLOOR OR ROOF PARALLEL TO FLUTES

TWO HOUR FIRE RESISTANT AND TWO HOUR FIRE RESISTANT SMOKE BARRIER

UL-HW-D-0377

NOTE:
REFER TO UL LISTING FOR COMPLETE ASSEMBLY REQUIREMENTS

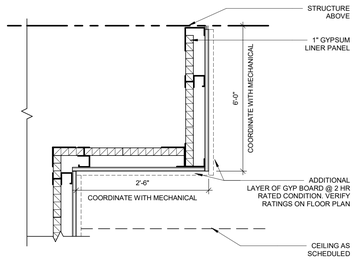


FLUTED STEEL DECK/CONCRETE FLOOR OR ROOF PERPENDICULAR OR DIAGONAL TO FLUTES

TWO HOUR FIRE RESISTANT AND TWO HOUR FIRE RESISTANT SMOKE BARRIER

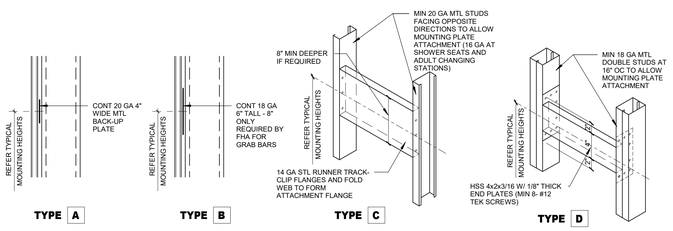
UL-HW-D-0252

NOTE:
REFER TO UL LISTING FOR COMPLETE ASSEMBLY REQUIREMENTS



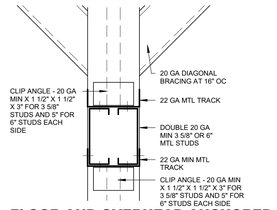
07 **TYP SECTION AT SHAFT BUMP OUT**
1 1/2" = 1'-0"

ACCESSORY/EQUIPMENT MOUNTING DETAILS

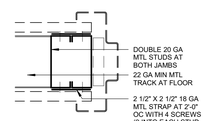


BARIATRIC GRAB BAR

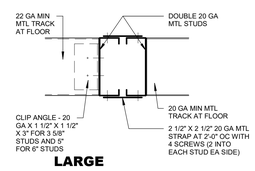
PARTITION FRAMING DETAILS



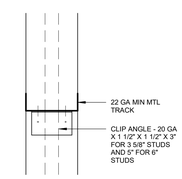
FLOOR AND OVERHEAD ANCHORED
06 **TOILET PARTITION HEADER**
3" = 1'-0"



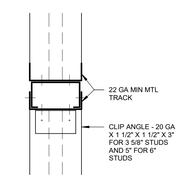
OPTION 2
DOOR OPENING
05 **JAMB STUDS**
3" = 1'-0"



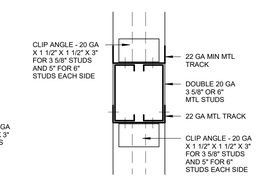
LARGE
04 **OPENING JAMB STUDS**
3" = 1'-0"



03 **OPENING HEADER**
3" = 1'-0"

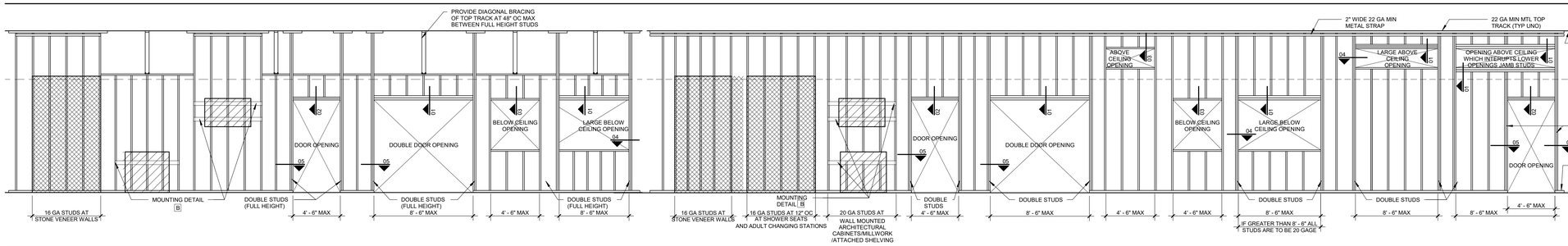


DOOR
02 **OPENING HEADER**
3" = 1'-0"



DOUBLE DOOR/LARGE
01 **OPENING HEADER**
3" = 1'-0"

TYPICAL INTERIOR PARTITION FRAMING



NOTES

1. ALL STUDS ARE SPACED 16" OC MAXIMUM.
2. ALL STUDS SHALL BE "C" STUDS WITH 1/4" FLANGE MINIMUM.
3. DENOTES SHELVING OR CABINETRY.
4. DENOTES STONE.
5. IN NO CASE SHALL DOUBLE STUDS AT SIDES OF OPENING BE CUT FOR DUCTWORK OR OTHER MECHANICAL SYSTEMS.
6. AT LEAD LINED PARTITIONS STUDS SHOULD BE 20 GA.
7. DO NOT CUT MORE THAN ONE STUD WEB TO ALLOW FOR HORIZONTAL PIPING PATH. PROVIDE STRAP AT WEB ABOVE AND BELOW PIPE IN ORDER TO RESTORE STUD INTEGRITY. STRAP GAUGE TO MATCH STUD GAUGE MIN.

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TAHLEQUAH, OKLAHOMA

KEY PLAN:

PROJECT PHASE:

95% CONSTRUCTION DOCUMENTS

REVISIONS

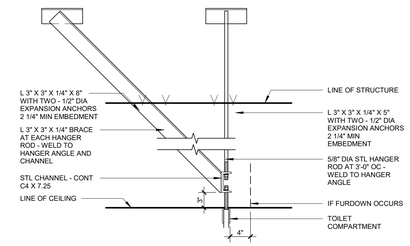
#	DATE	DESCRIPTION

DATE:	JOB NUMBER:
07-26-19	17-13

SHEET NUMBER:

A2.01

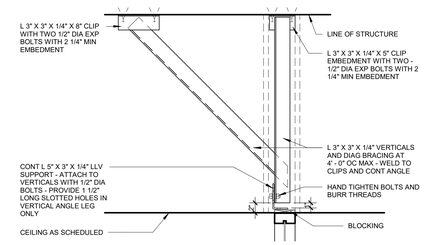
PARTITION FRAMING / HEAD DETAILS



FINISH AFTER FABRICATION: SHOP PRIMER PAINT

13 MF13 - CEILING MOUNTED TOILET COMPARTMENT SUPPORT

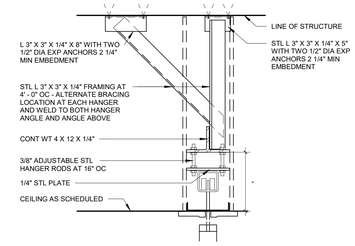
1" = 1'-0"



FINISH AFTER FABRICATION: SHOP PRIMER PAINT

12 MF12 - HEAD SUPPORT AT INTERIOR ALUMINUM WALL SYSTEMS

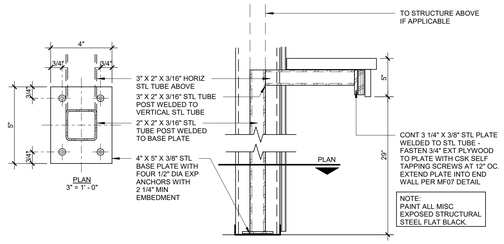
1" = 1'-0"



NOTE: FINISH AFTER FABRICATION: SHOP PRIMER PAINT

11 MF11 - OPERABLE PARTITION SUPPORT

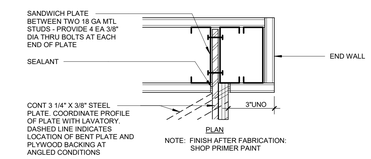
NTS



NOTE: FINISH AFTER FABRICATION: SHOP PRIMER PAINT

08 MF08 - LAVATORY COUNTER SUPPORT SPAN 10' - 0" TO 16' - 0"

1 1/2" = 1'-0"



NOTE: FINISH AFTER FABRICATION: SHOP PRIMER PAINT

07 MF07 - LAVATORY COUNTER SUPPORT SPAN LESS THAN 10' - 0"

3" = 1'-0"

GENERAL NOTES

THE SCHEDULE MAY NOT INCLUDE ALL METAL FABRICATION ITEMS AND MAY HAVE GAPS IN THE ALPHANUMERIC SEQUENCE.

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College of Osteopathic Medicine at the Cherokee Nation
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A2.02

METAL FABRICATIONS

MATERIAL LEGEND

- STONE VENEER
- EIFS
- METAL PANEL
- WOOD COMPOSITE PANEL
- TINTED INSULATED GLAZING
- SPANDREL INSULATED GLAZING

EXTERIOR FINISH SCHEDULE

EIFS

EIFS:

MANUFACTURER: DRYVIT
SYSTEM: OUTSULATION PLUS - MD
COLOR: LYMESTONE
FINISH: SUEDE

STONE

CUT STONE VENEER

SV:

MANUFACTURER: MINICK MATERIALS
PRODUCT: ADHERED MASONRY
COLOR: MOSS ROCK WALL STONE

WOOD

TONGUE & GROOVE WOOD SOFFIT

WDS:

MANUFACTURER: WESTERN RED CEDAR LUMBER
GRADE: A CLEAR
SIZE: 1" x 6" NOMINAL (3/4" x 5 1/2" ACTUAL)
COLOR: SEMI-TRANSPARENT SATIN W/CLEAR
PROTECTIVE UV FINISH

COMPOSITE

COMPOSITE WOODEN WALL PANELING (CWP)

CWP-1:

MANUFACTURER: PARKLEX
PRODUCT: EXTERNAL CLADDING
SIZE: 24" WIDE x 96" HIGH
ORIENTATION: VERTICAL
COLOR: ANTRA
PATTERN: RANDOM (1/3 OF TOTAL CWP-1 THRU CWP-3)

CWP-2:

MANUFACTURER: PARKLEX
PRODUCT: EXTERNAL CLADDING
SIZE: 24" WIDE x 96" HIGH
ORIENTATION: VERTICAL
COLOR: ONIX
PATTERN: RANDOM (1/3 OF TOTAL CWP-1 THRU CWP-3)

CWP-3:

MANUFACTURER: PARKLEX
PRODUCT: EXTERNAL CLADDING
SIZE: 24" WIDE x 96" HIGH
ORIENTATION: VERTICAL
COLOR: COPPER
PATTERN: RANDOM (1/3 OF TOTAL CWP-1 THRU CWP-3)

PRECAST CONCRETE

PC:

MANUFACTURER: HERITAGE CAST STONE
COLOR: BUFF
TEXTURE: SMOOTH

MECHANICAL SCREEN

MS:

MANUFACTURER: CENTRIA
PRODUCT: ECOSCREEN PERFORATED SCREENWALL
COLOR: PAINTED TO MATCH EIFS

DOORS, FRAMES & WINDOWS

CURTAINWALL

CW-1:

MANUFACTURER: KAWNEER
PRODUCT: 1600 WALL SYSTEM, SERIES 2
COLOR: ANTIQUE BRONZE

CW-2:

MANUFACTURER: KAWNEER
PRODUCT: CLEARWALL SYSTEM
COLOR: ANTIQUE BRONZE

HOLLOW METAL DOOR & FRAMES

HM:

MANUFACTURER: SHERWIN WILLIAMS
PRODUCT: PRO INDUSTRIAL ACRYLIC
COLOR: SW7675 SEALSKIN
SHEEN: SEMIGLOSS

GLASS

G-1:

MANUFACTURER: VITRO ARCHITECTURAL GLASS
PRODUCT: SOLARBAN 60
COLOR: ATLANTICA + CLEAR

G-2:

SPANDREL GLAZING
MANUFACTURER: VITRO ARCHITECTURAL GLASS
PRODUCT: STARPHIRE + SOLARBAN 60 + OPACI-COAT-300
COLOR: SUBDUED GRAY (MATCH HASTINGS)

METALS

COMPOSITE METAL WALL PANELING (CMWP)

CMWP-1:

MANUFACTURER: CITADEL
PRODUCT: ENVELOPE 2000 RS
COLOR: MEDIUM BRONZE
FINISH: STANDARD KYNAR 500

CMWP-2:

MANUFACTURER: CITADEL
PRODUCT: ENVELOPE 2000 RS
COLOR: SW9168 ELEPHANT EAR
SHEEN: SEMIGLOSS

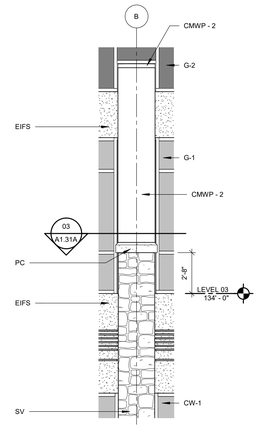
CMWP-3:

MANUFACTURER: CITADEL
PRODUCT: ENVELOPE 2000 RS
COLOR: PAINTED TO MATCH P-3 SW6885 KNOCKOUT ORANGE
FINISH: KYNAR 2-COAT

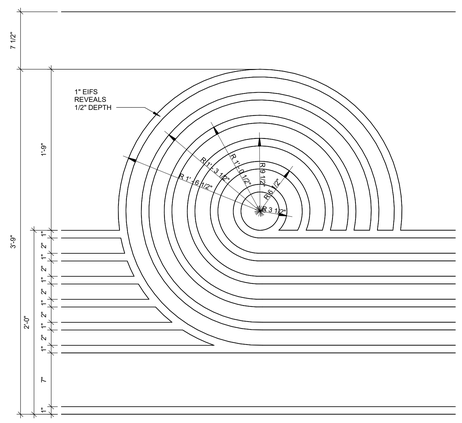
METAL WALL PANELING (MWP)

MWP-1:

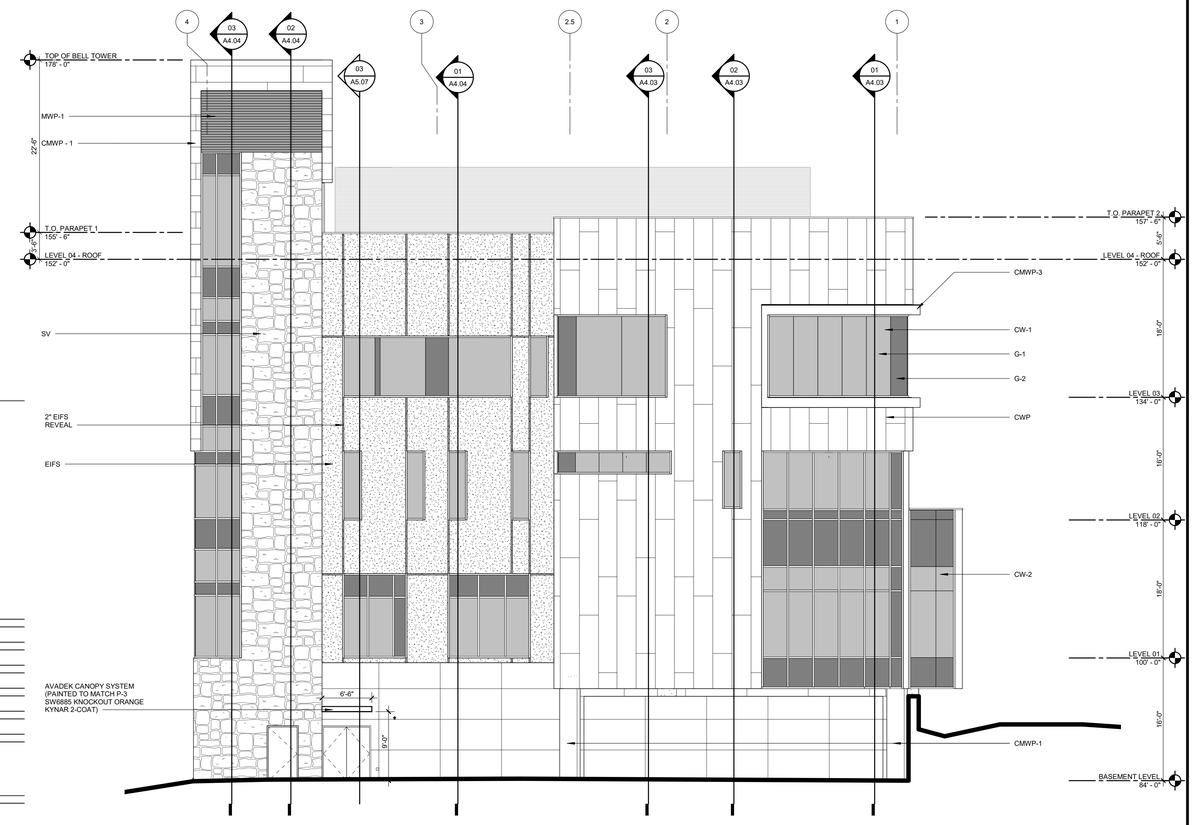
MANUFACTURER: BERRIDGE
PRODUCT: PRO INDUSTRIAL ACRYLIC
COLOR: SW9168 ELEPHANT EAR
SHEEN: SEMIGLOSS



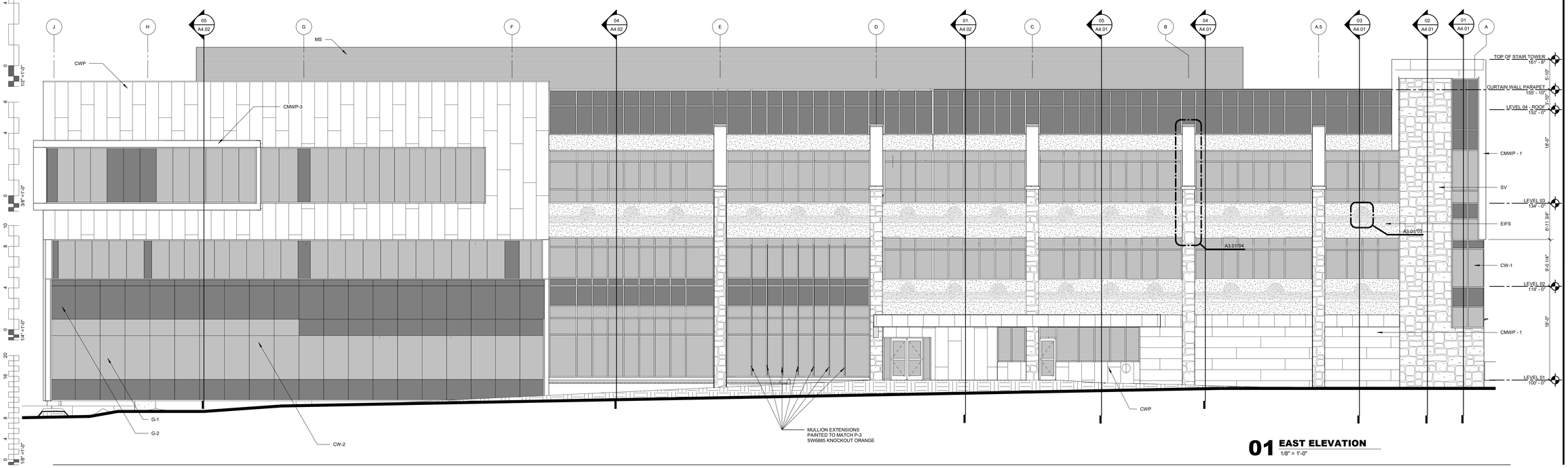
04 COLUMN DETAIL
1/4" = 1'-0"



03 EIFS WATER SYMBOL REVEALS
1 1/2" = 1'-0"



02 SOUTH ELEVATION
1/8" = 1'-0"



01 EAST ELEVATION
1/8" = 1'-0"

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A3.01

EXTERIOR ELEVATIONS

MATERIAL LEGEND

- STONE VENEER
- EIFS
- METAL PANEL
- WOOD COMPOSITE PANEL
- TINTED INSULATED GLAZING
- SPANDREL INSULATED GLAZING

EXTERIOR FINISH SCHEDULE

EIFS

EIFS:

MANUFACTURER: DRYVIT
SYSTEM: OUTSULATION PLUS - MD
COLOR: LYMESTONE
FINISH: SUEDE

STONE

CUT STONE VENEER

SV:

MANUFACTURER: MINICK MATERIALS
PRODUCT: ADHERED MASONRY
COLOR: MOSS ROCK WALL STONE

WOOD

TONGUE & GROOVE WOOD SOFFIT

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MANUFACTURER: WESTERN RED CEDAR LUMBER
GRADE: A CLEAR
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PRODUCT: EXTERNAL CLADDING
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ORIENTATION: VERTICAL
COLOR: ANTRA
PATTERN: RANDOM (1/3 OF TOTAL CWP-1 THRU CWP-3)

CWP-2:

MANUFACTURER: PARKLEX
PRODUCT: EXTERNAL CLADDING
SIZE: 24" WIDE x 96" HIGH
ORIENTATION: VERTICAL
COLOR: ONIX
PATTERN: RANDOM (1/3 OF TOTAL CWP-1 THRU CWP-3)

CWP-3:

MANUFACTURER: PARKLEX
PRODUCT: EXTERNAL CLADDING
SIZE: 24" WIDE x 96" HIGH
ORIENTATION: VERTICAL
COLOR: COPPER
PATTERN: RANDOM (1/3 OF TOTAL CWP-1 THRU CWP-3)

PRECAST CONCRETE

PC:

MANUFACTURER: HERITAGE CAST STONE
COLOR: BUFF
TEXTURE: SMOOTH

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COLOR: ANTIQUE BRONZE

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MANUFACTURER: KAWNEER
PRODUCT: CLEARWALL SYSTEM
COLOR: ANTIQUE BRONZE

HOLLOW METAL DOOR & FRAMES

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COLOR: SW7675 SEALSKIN
SHEEN: SEMIGLOSS

GLASS

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MANUFACTURER: VITRO ARCHITECTURAL GLASS
PRODUCT: SOLARBAN 60
COLOR: ATLANTICA + CLEAR

G-2:

SPANDREL GLAZING
MANUFACTURER: VITRO ARCHITECTURAL GLASS
PRODUCT: STARPHIRE + SOLARBAN 60 + OPACI-COAT-300
COLOR: SUBDUED GRAY (MATCH HASTINGS)

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COMPOSITE METAL WALL PANELING (CMWP)

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PRODUCT: ENVELOPE 2000 RS
COLOR: MEDIUM BRONZE
FINISH: STANDARD KYNAR 500

CMWP-2:

MANUFACTURER: CITADEL
PRODUCT: ENVELOPE 2000 RS
COLOR: SW9168 ELEPHANT EAR
SHEEN: SEMIGLOSS

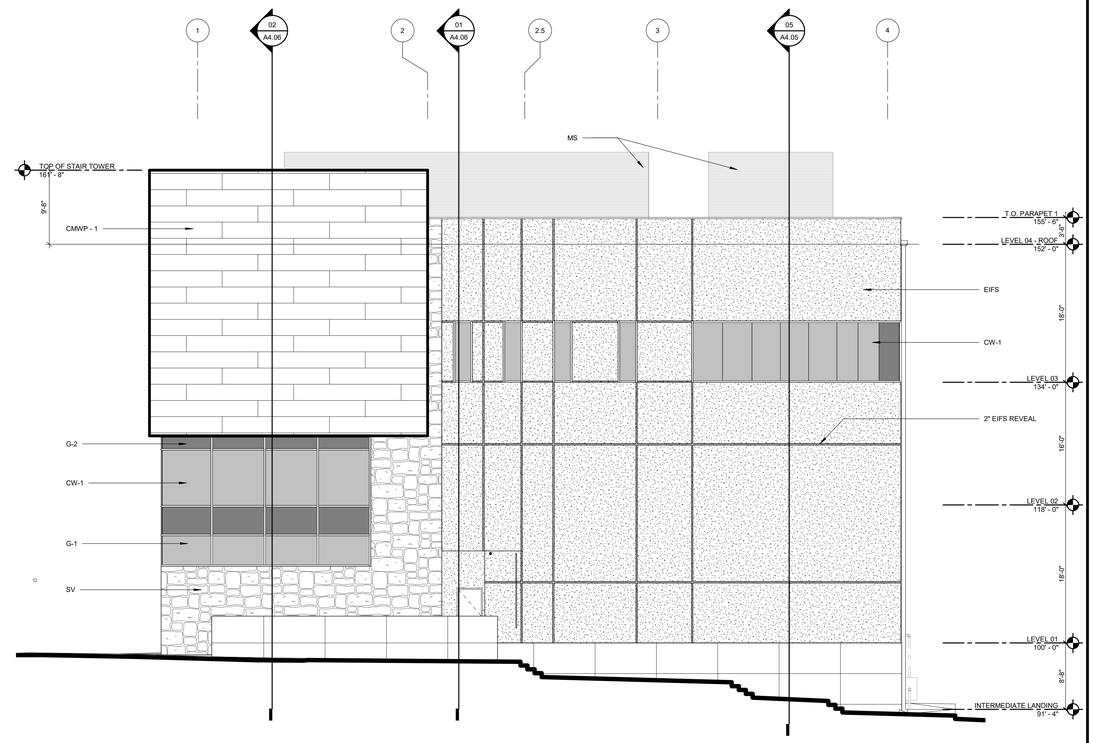
CMWP-3:

MANUFACTURER: CITADEL
PRODUCT: ENVELOPE 2000 RS
COLOR: PAINTED TO MATCH P-3 SW6885 KNOCKOUT ORANGE
FINISH: KYNAR 2-COAT

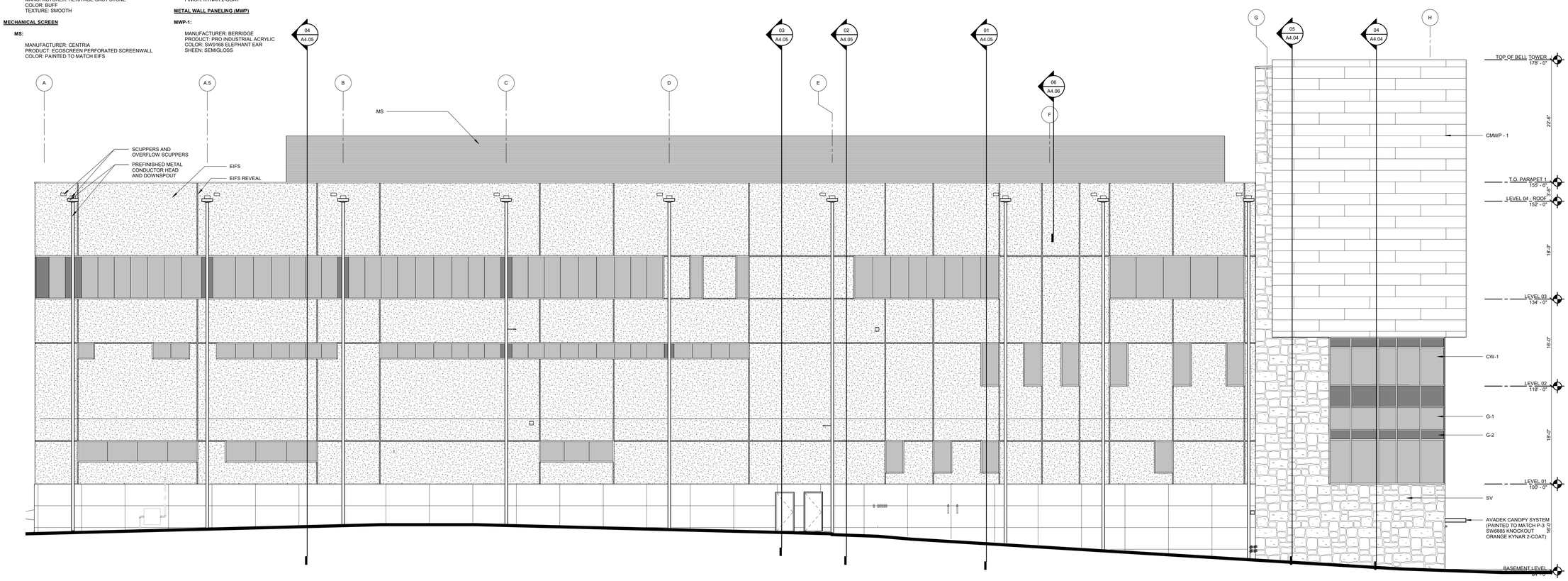
METAL WALL PANELING (MWP)

MWP-1:

MANUFACTURER: BERRIDGE
PRODUCT: PRO INDUSTRIAL ACRYLIC
COLOR: SW9168 ELEPHANT EAR
SHEEN: SEMIGLOSS



02 NORTH ELEVATION
1/8" = 1'-0"



01 WEST ELEVATION
1/8" = 1'-0"

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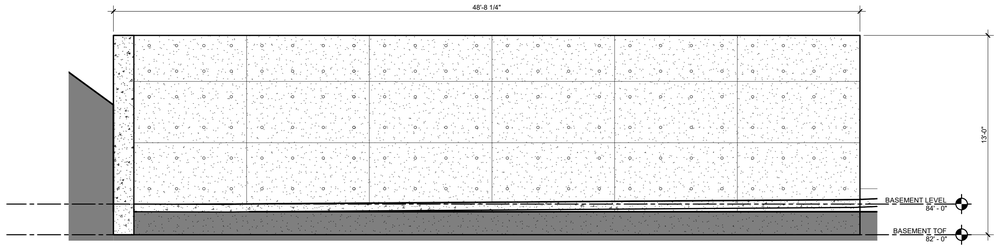
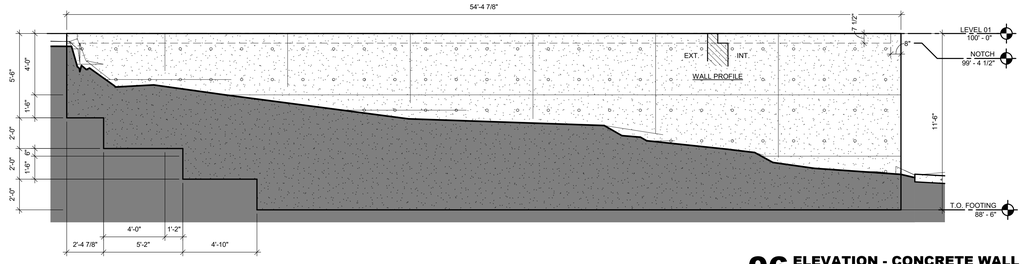
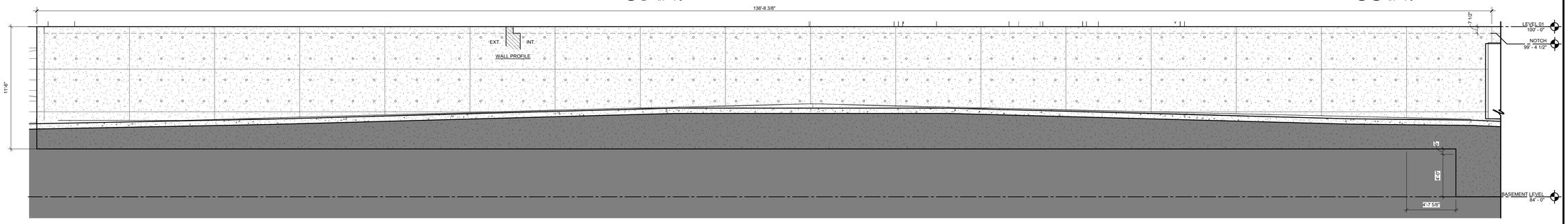
EXTERIOR ELEVATIONS



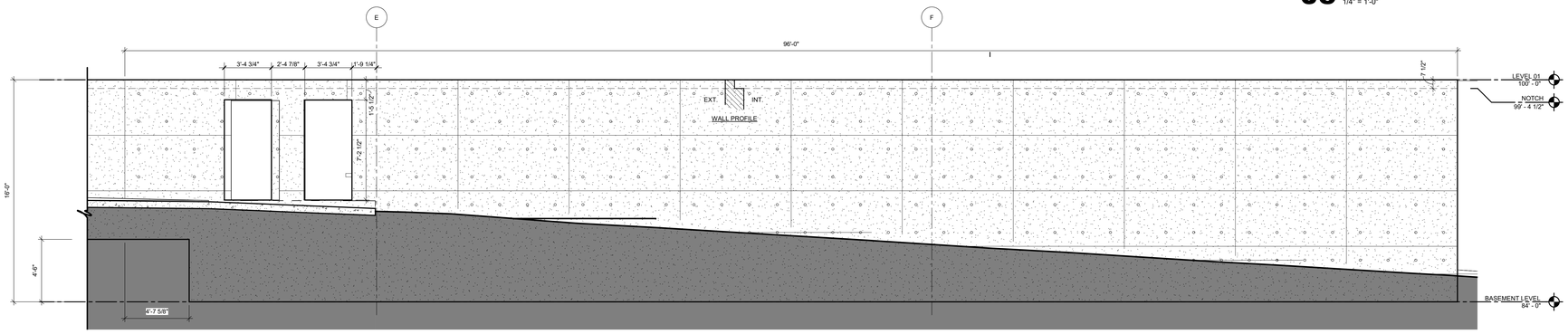
07 ELEVATION - CONCRETE WALL
1/4" = 1'-0"



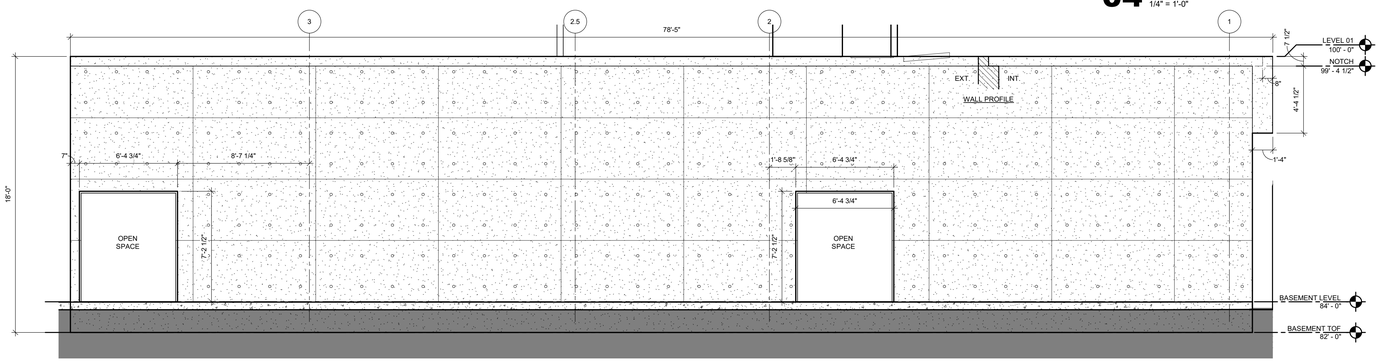
06 ELEVATION - CONCRETE WALL
1/4" = 1'-0"



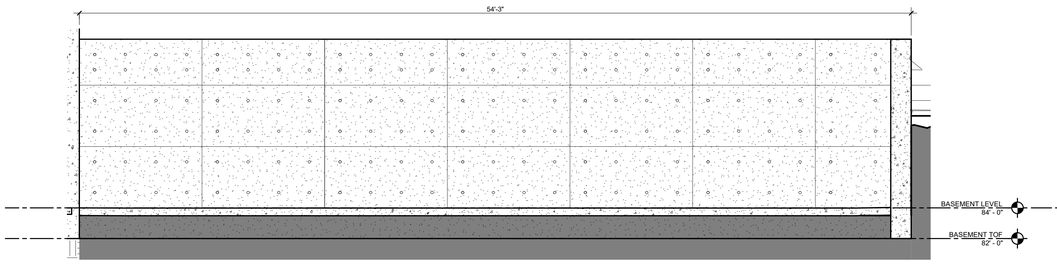
05 ELEVATION - CONCREATE WALL
1/4" = 1'-0"



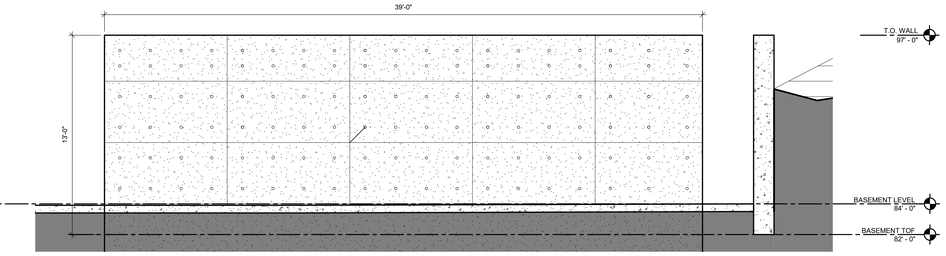
04 ELEVATION - CONCRETE WALL
1/4" = 1'-0"



03 ELEVATION - CONCRETE WALL
1/4" = 1'-0"



02 ELEVATION - CONCRETE WALL
1/4" = 1'-0"



01 ELEVATION - CONCRETE WALL
1/4" = 1'-0"

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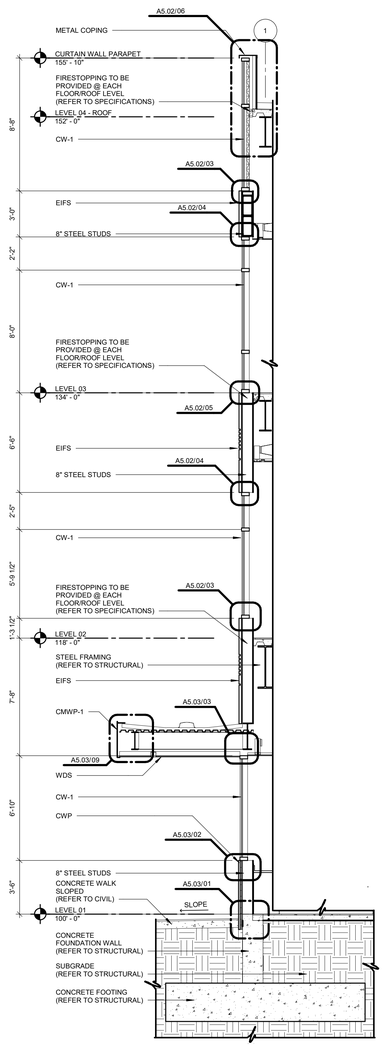
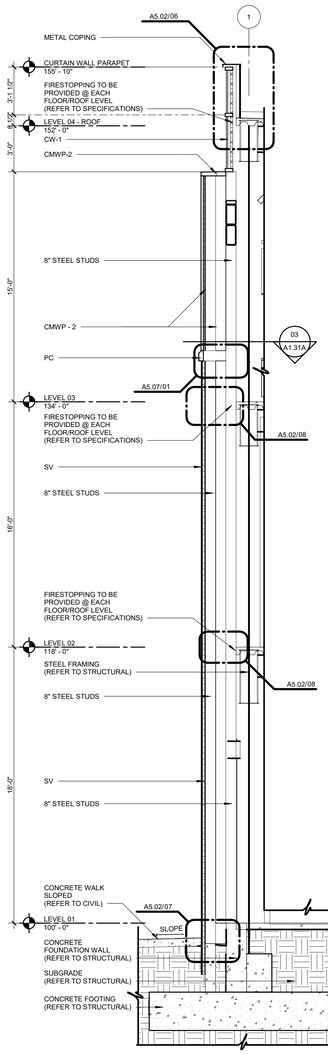
A3.03

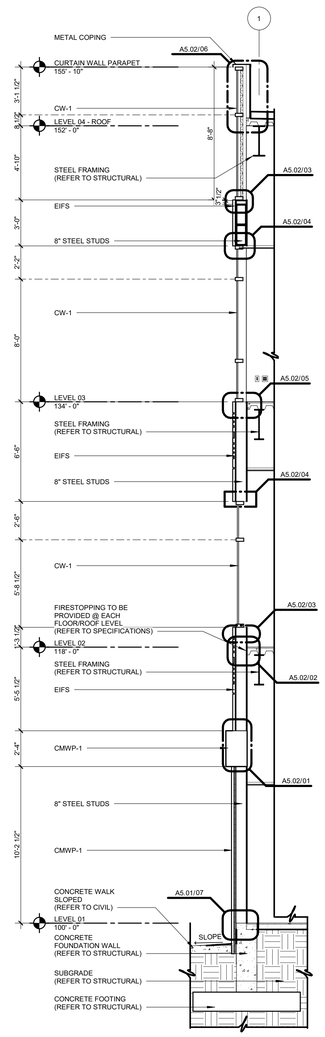
EXTERIOR ELEVATIONS



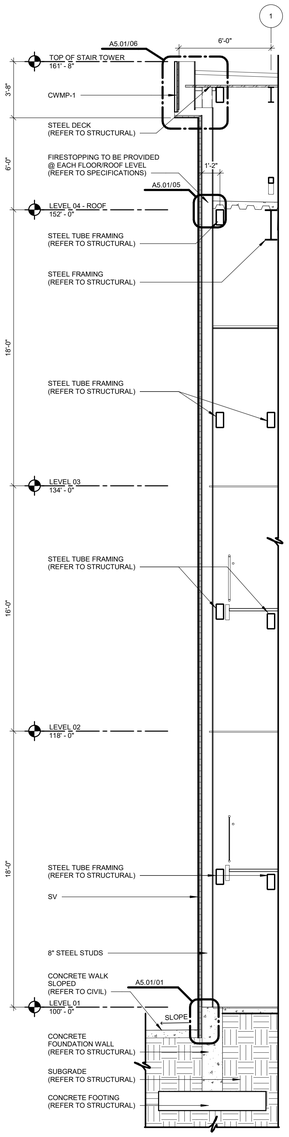
05 WALL SECTION
1/4" = 1'-0"



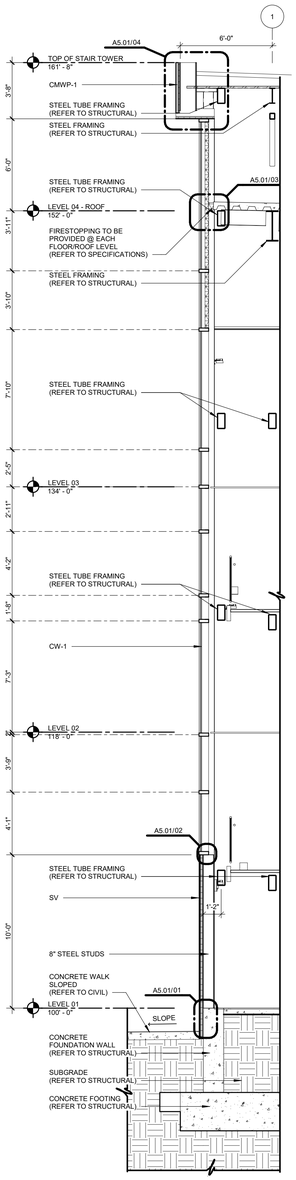
04 WALL SECTION
1/4" = 1'-0"



03 WALL SECTION
1/4" = 1'-0"



02 WALL SECTION
1/4" = 1'-0"



01 WALL SECTION
1/4" = 1'-0"

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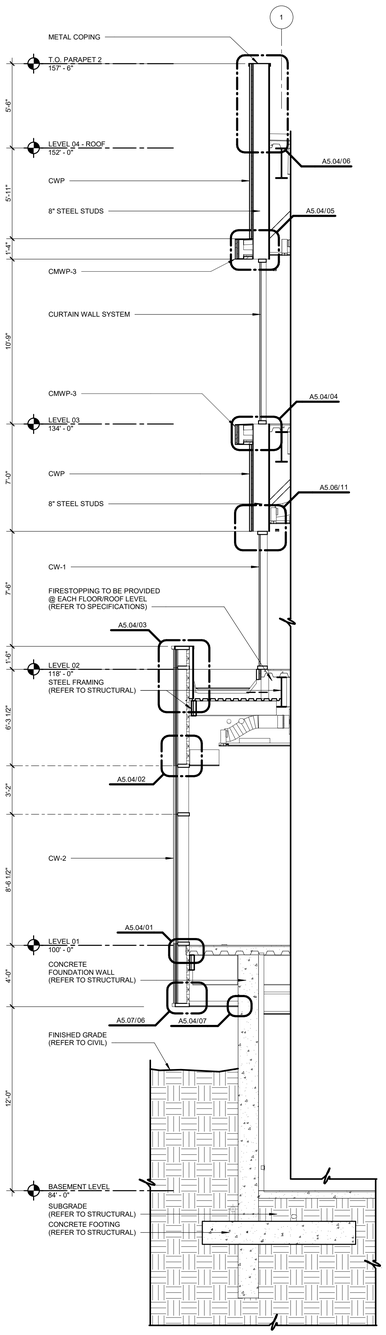
WALL SECTIONS



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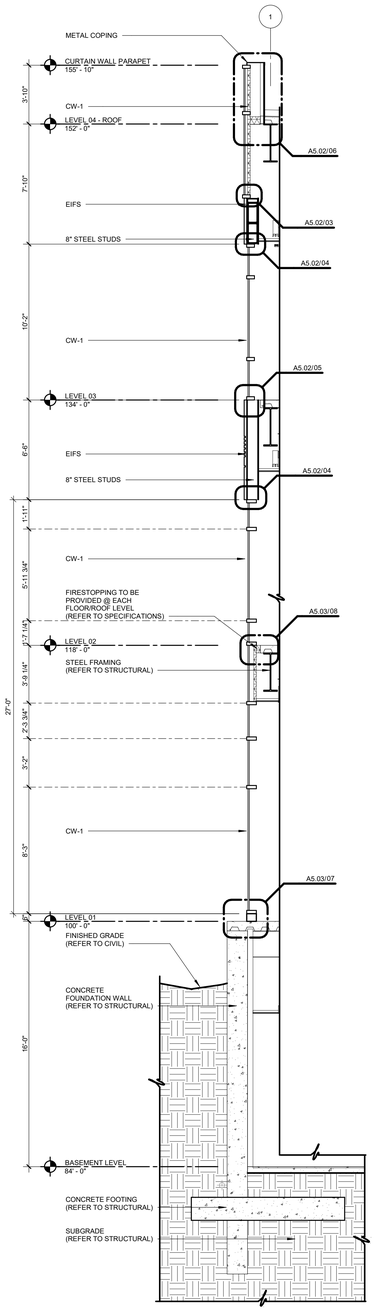
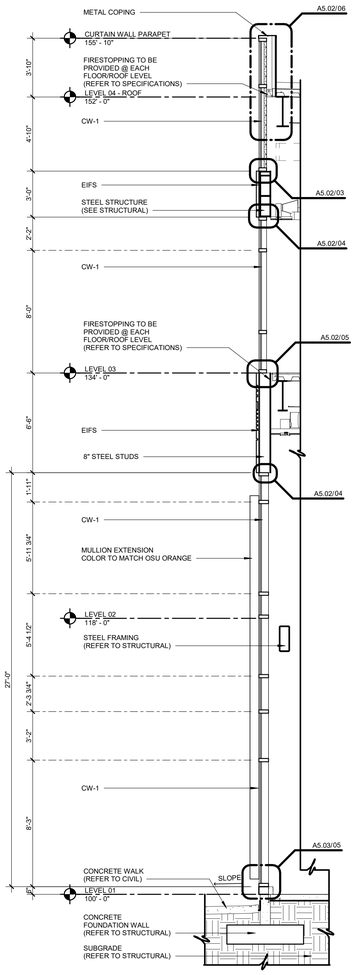
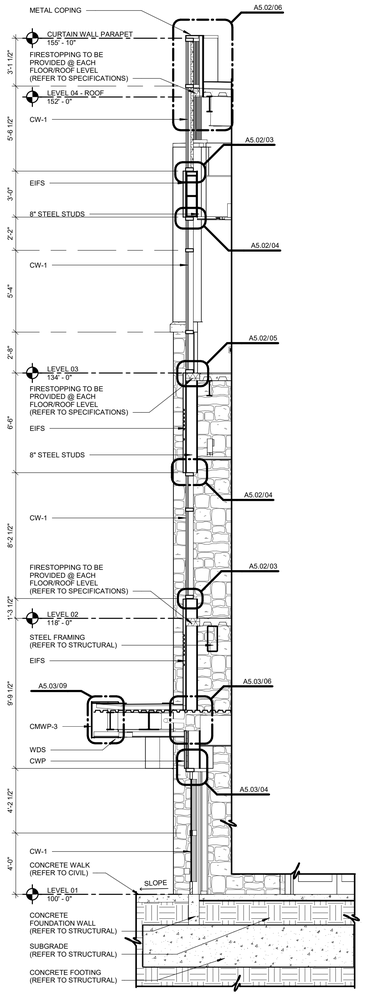
1/4" = 1'-0"



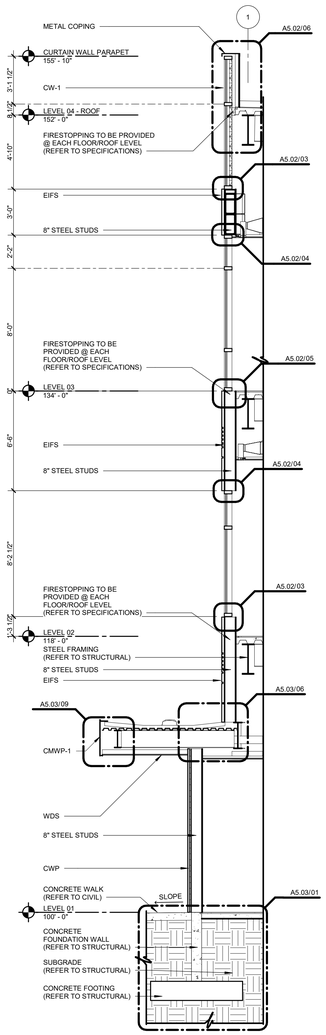
04 WALL SECTION
1/4" = 1'-0"



03 WALL SECTION
1/4" = 1'-0"



02 WALL SECTION
1/4" = 1'-0"



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1/4" = 1'-0"

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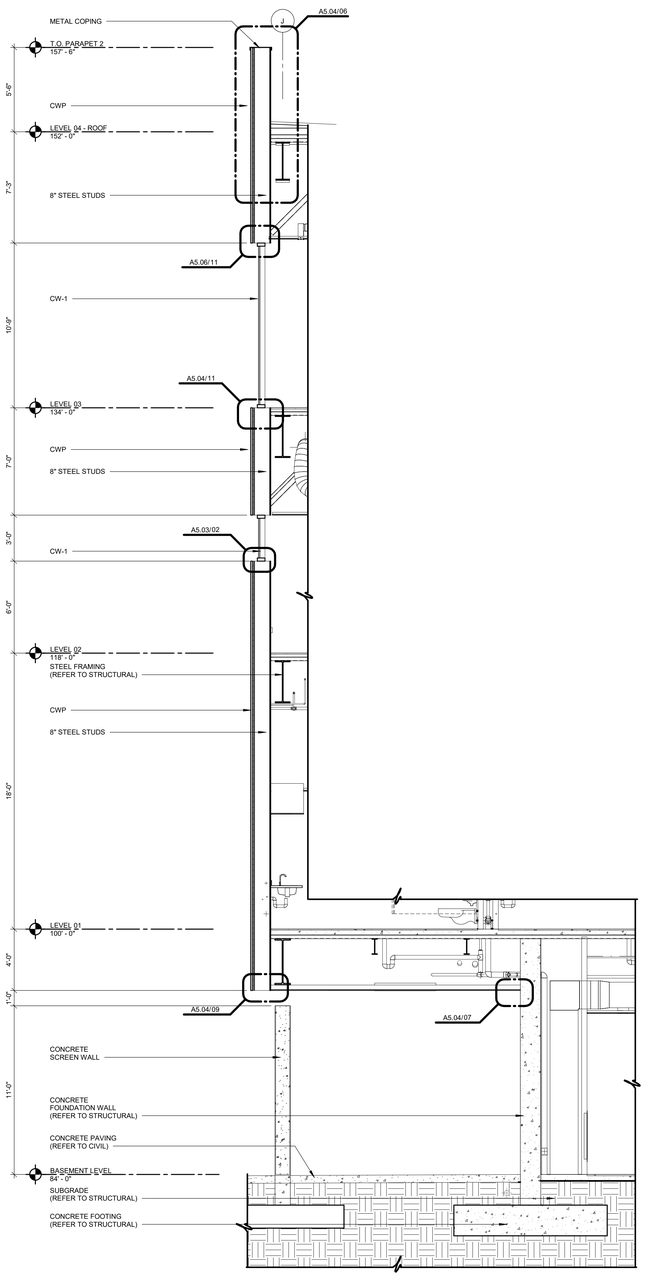
WALL SECTIONS



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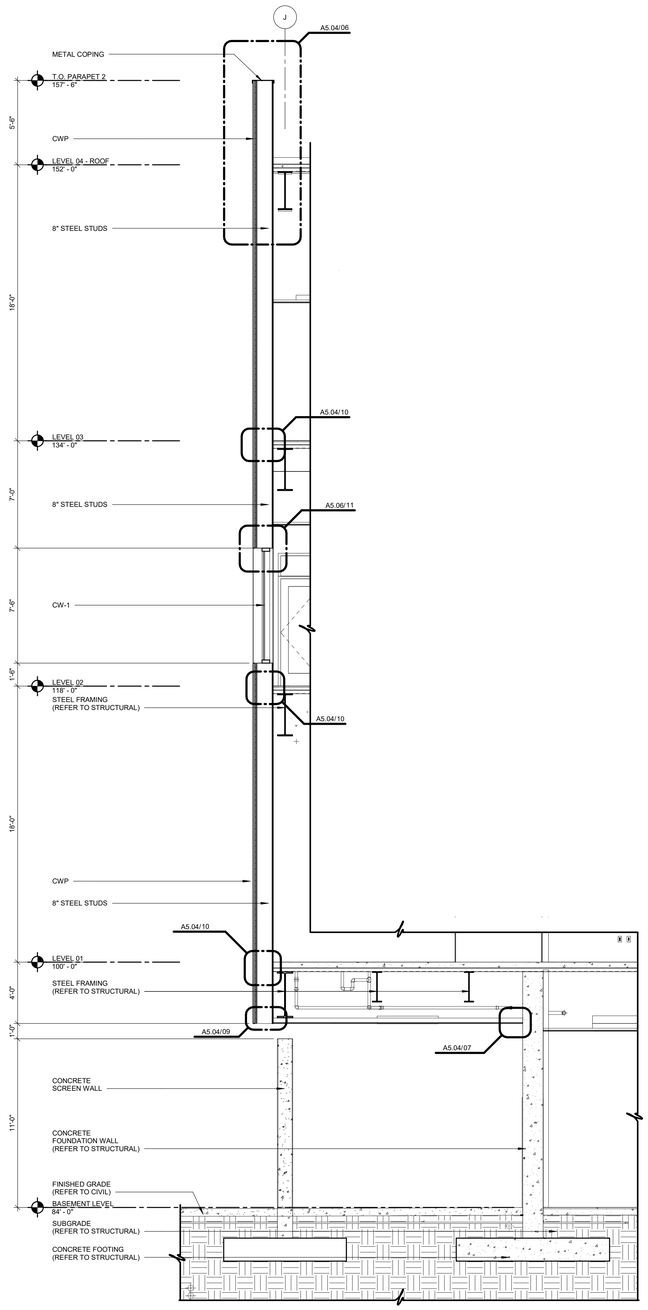
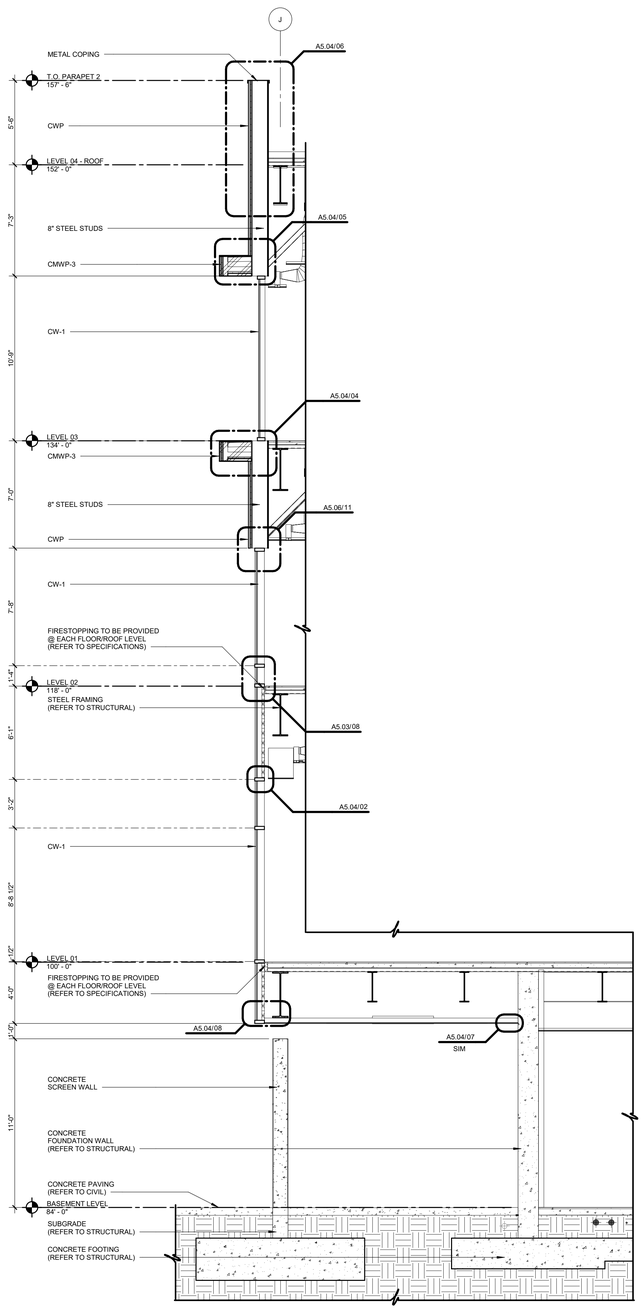


02 WALL SECTION
1/4" = 1'-0"



01 WALL SECTION
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AT THE CHEROKEE NATION
TAHLEQUAH, OKLAHOMA

KEY PLAN:

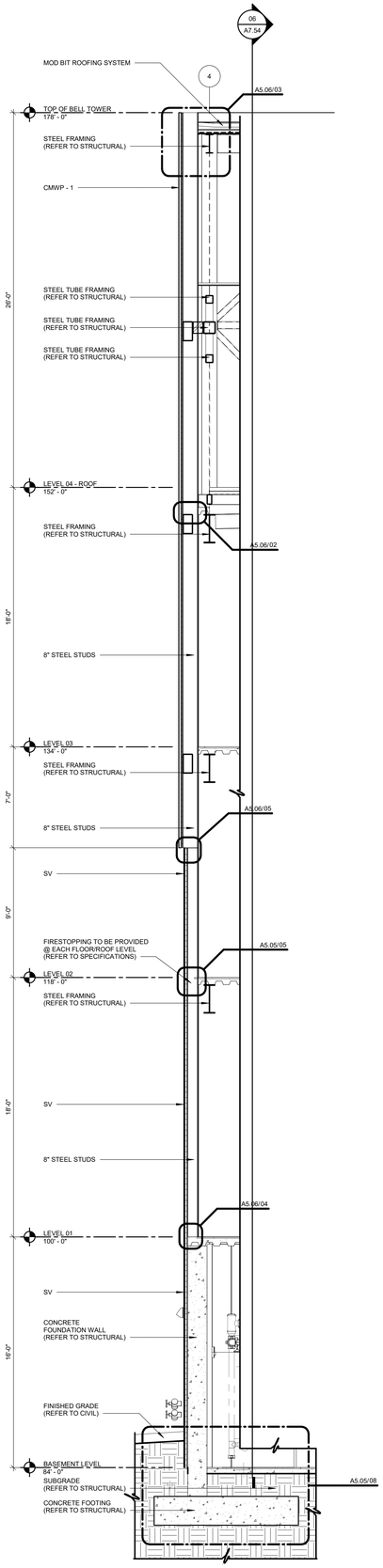
PROJECT PHASE:
95% CONSTRUCTION DOCUMENTS

REVISIONS

#	DATE	DESCRIPTION

DATE: 07-15-19
JOB NUMBER: 17-13
SHEET NUMBER: A4.03

WALL SECTIONS



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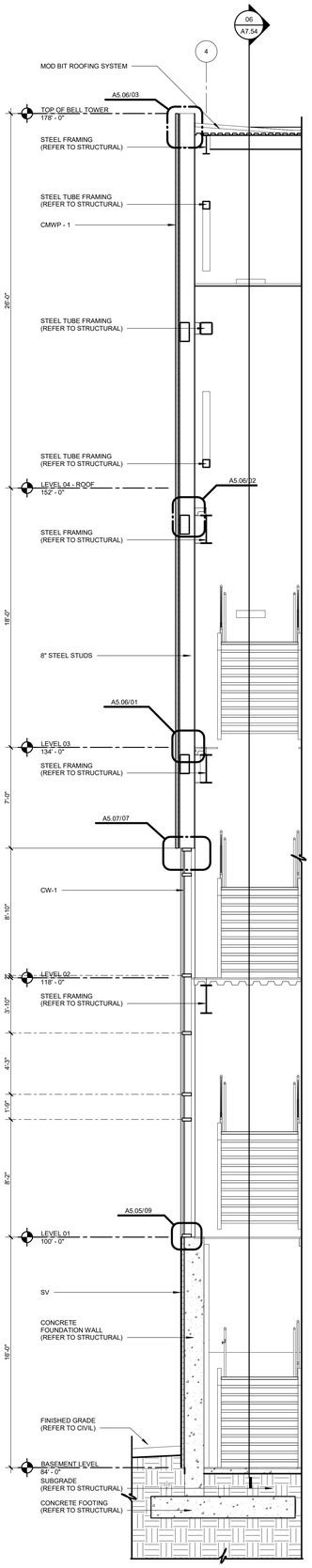

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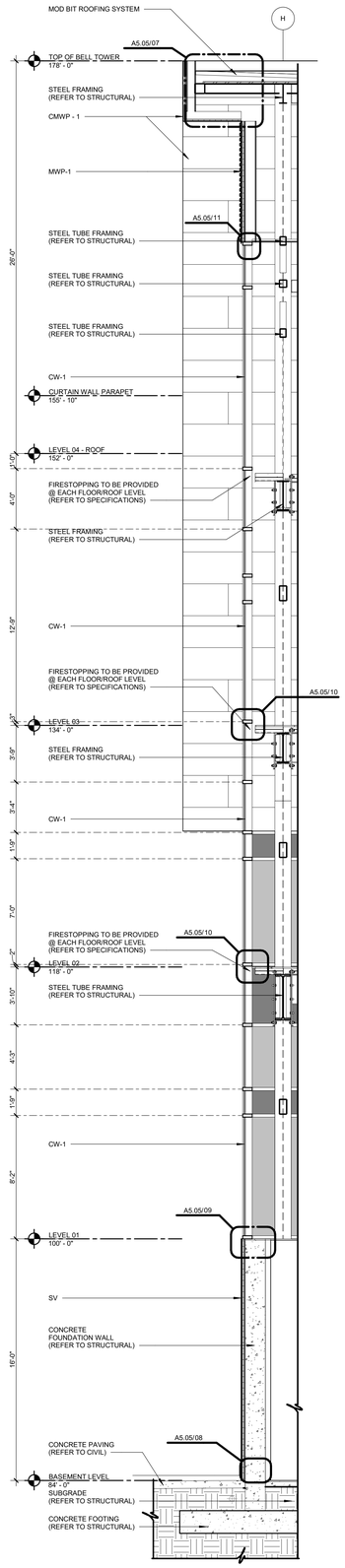

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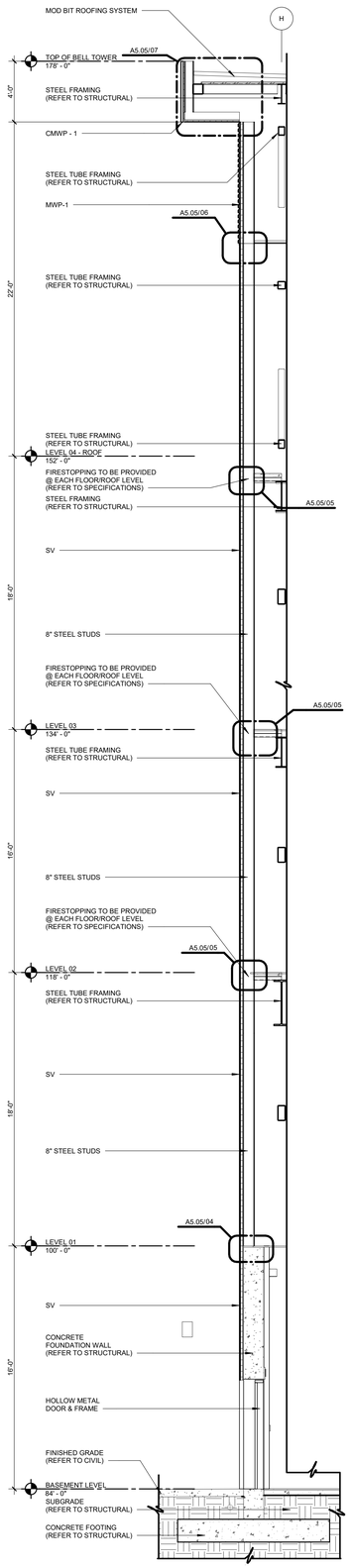

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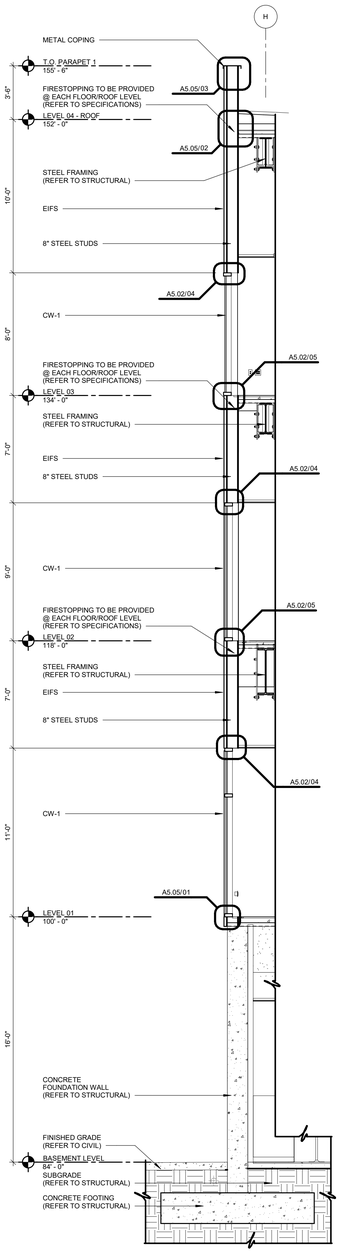

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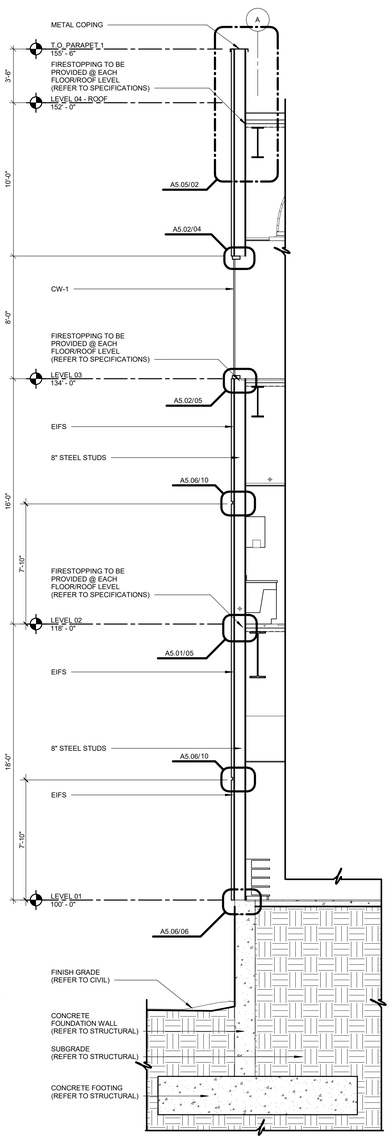
DATE:	JOB NUMBER:
07-15-19	17-13

SHEET NUMBER:
A4.04

WALL SECTIONS



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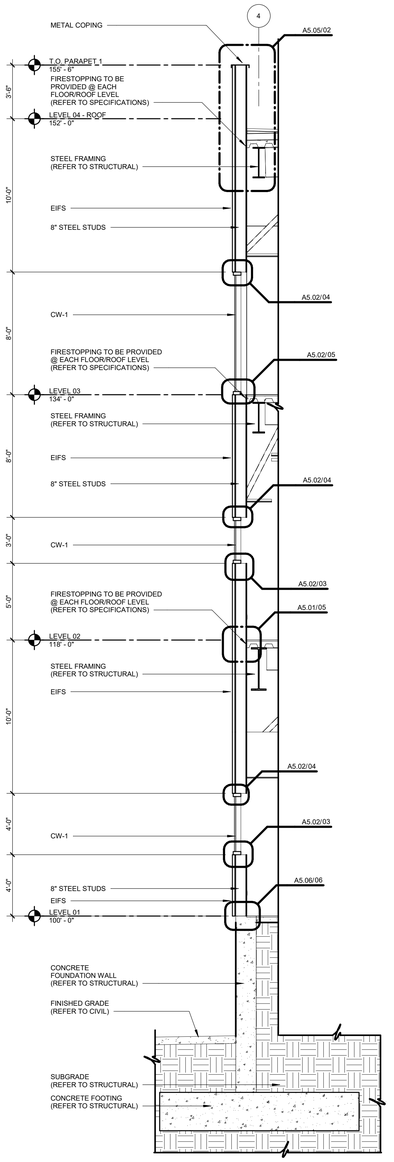

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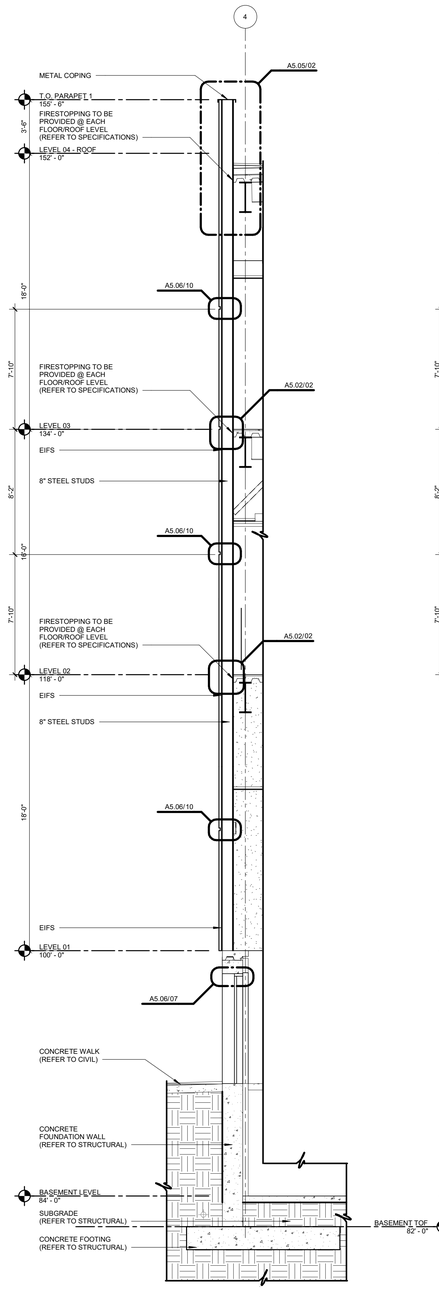

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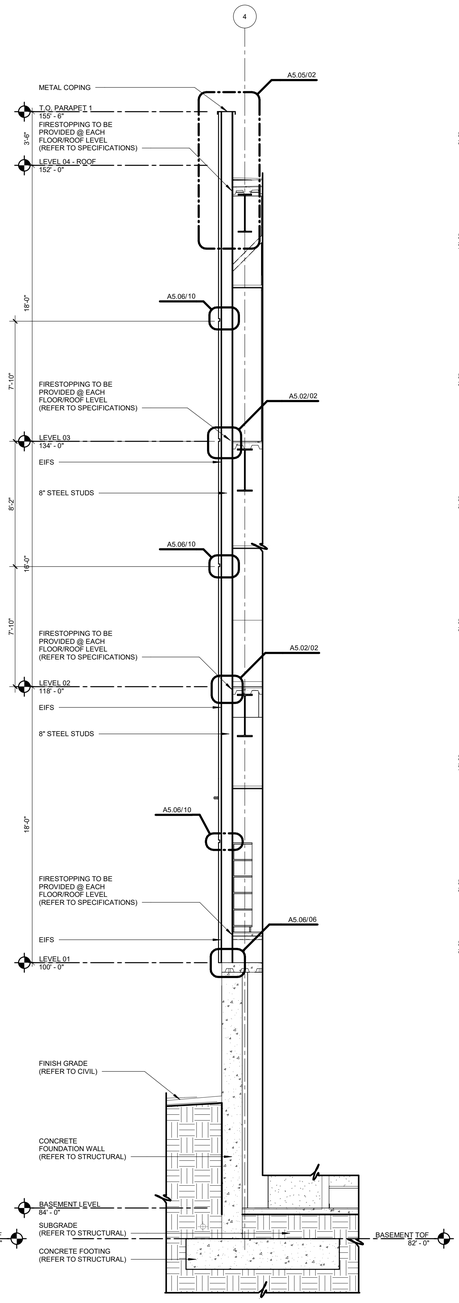

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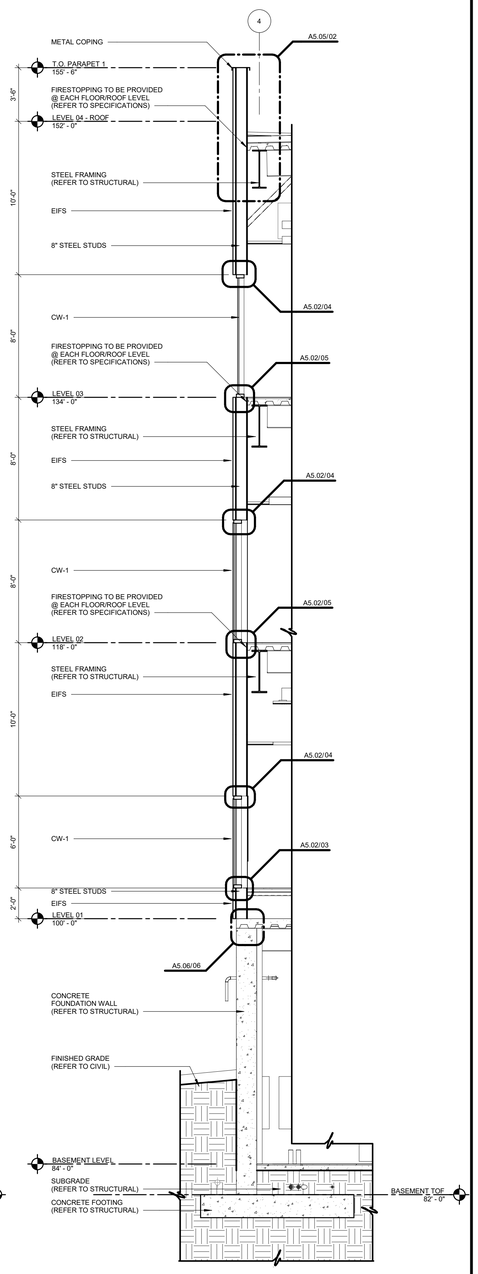

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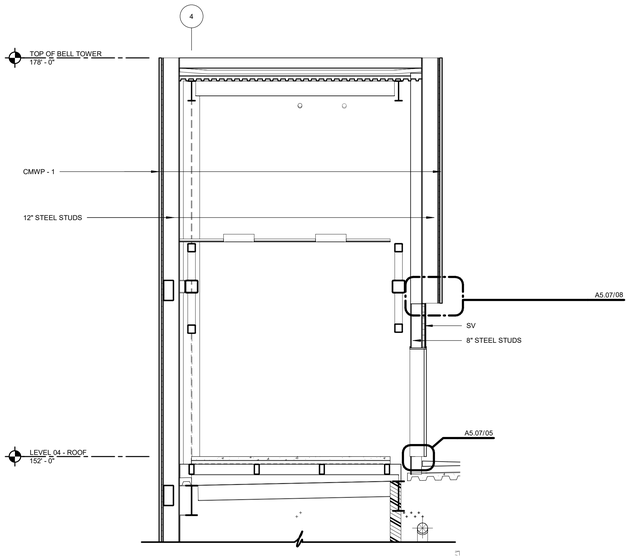
A4.05

WALL SECTIONS



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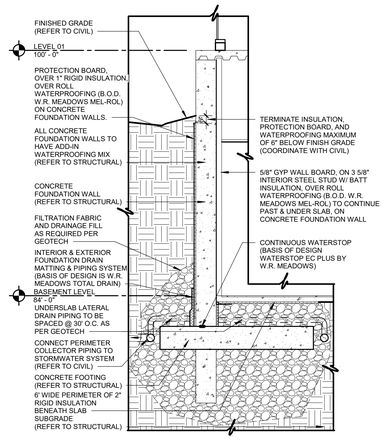

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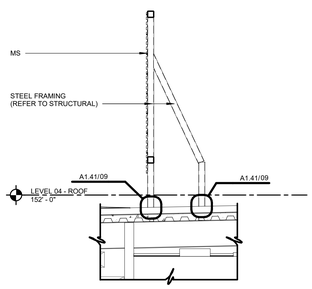

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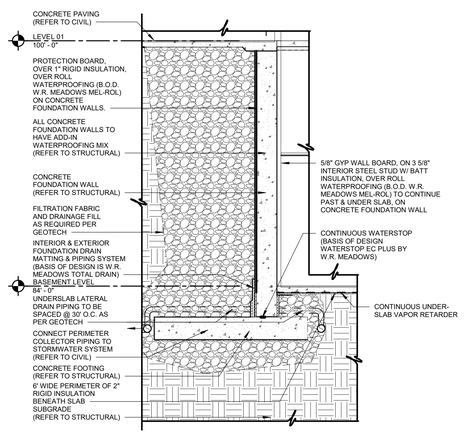

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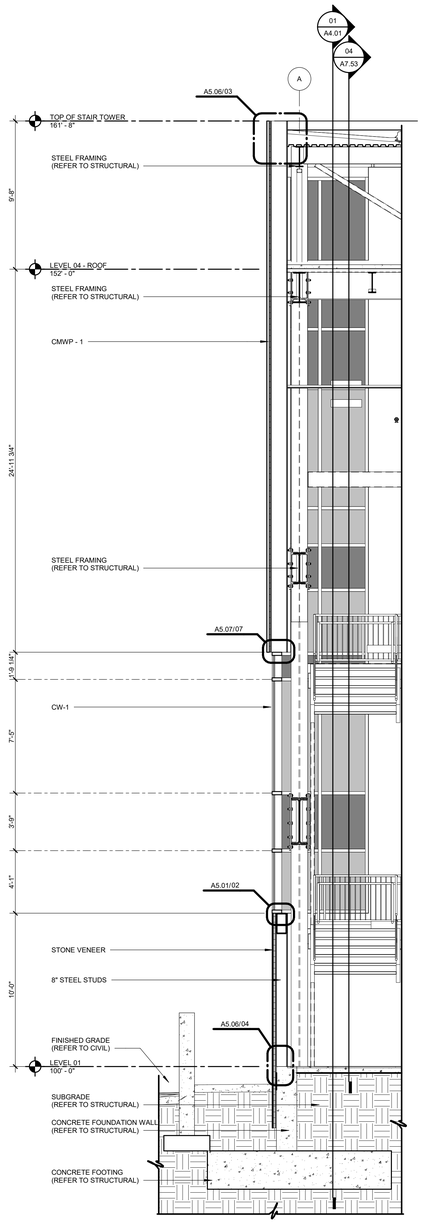

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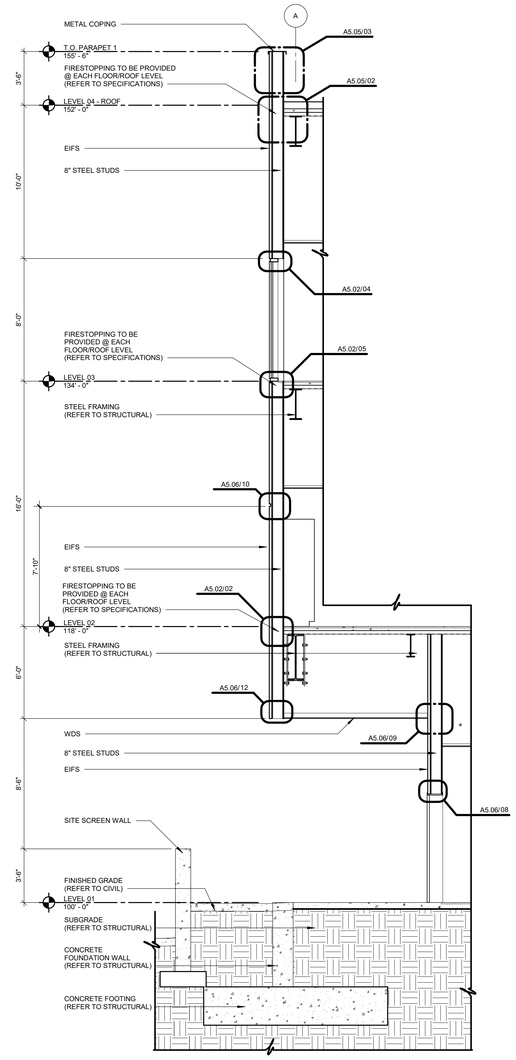

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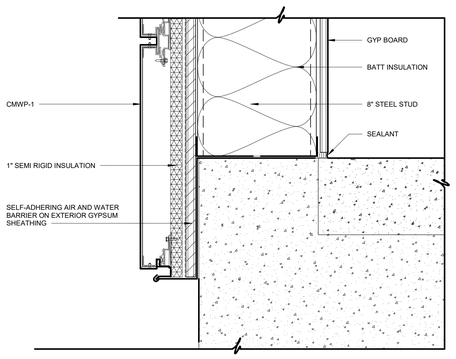
WALL SECTIONS



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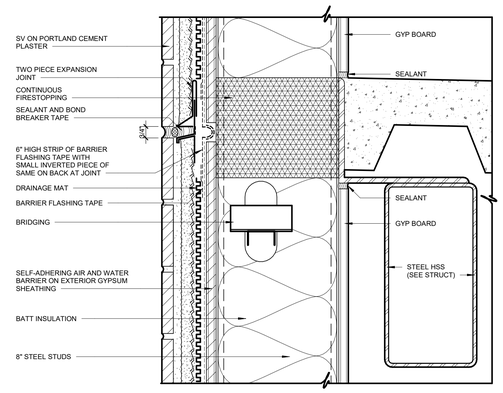

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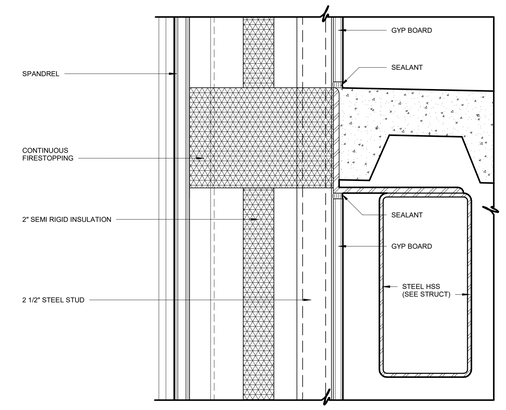

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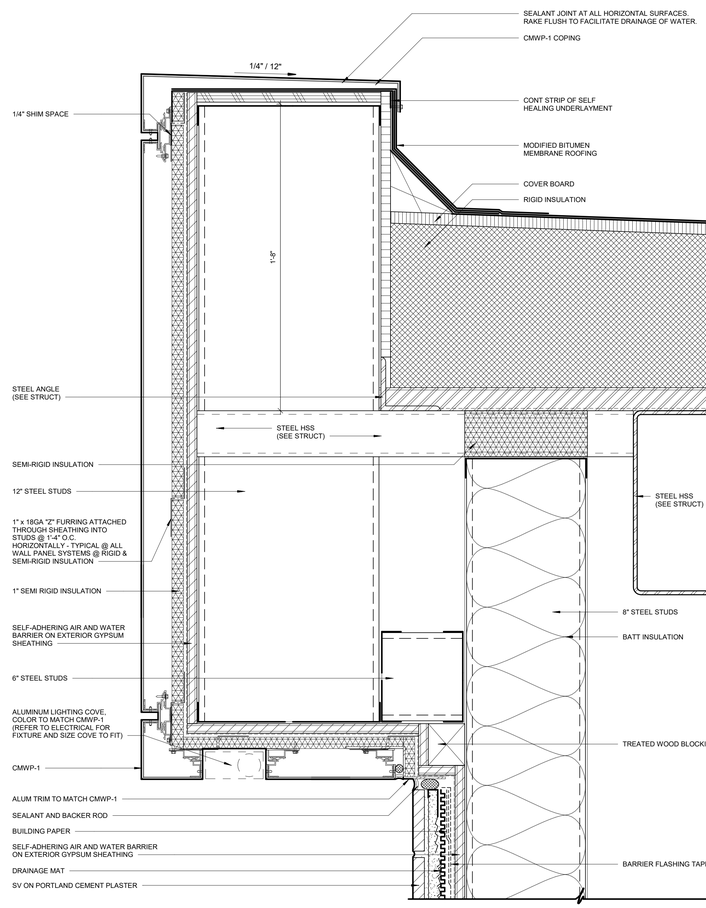

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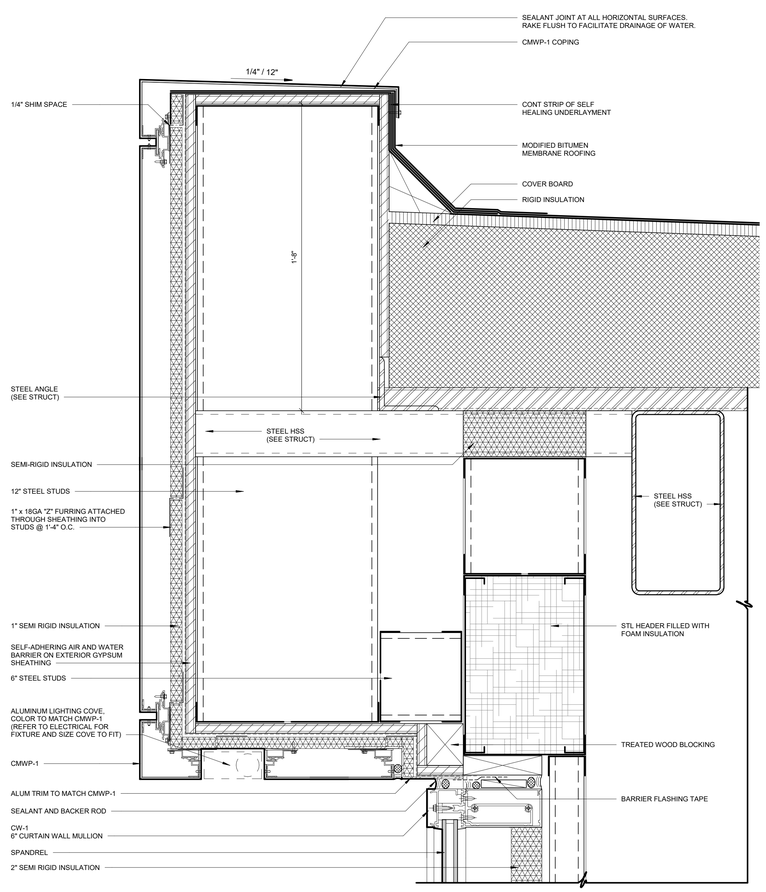

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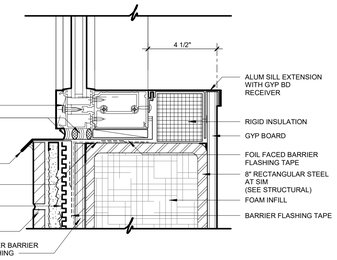

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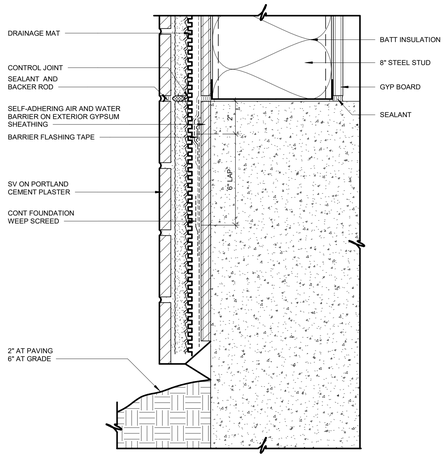

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3" = 1'-0"

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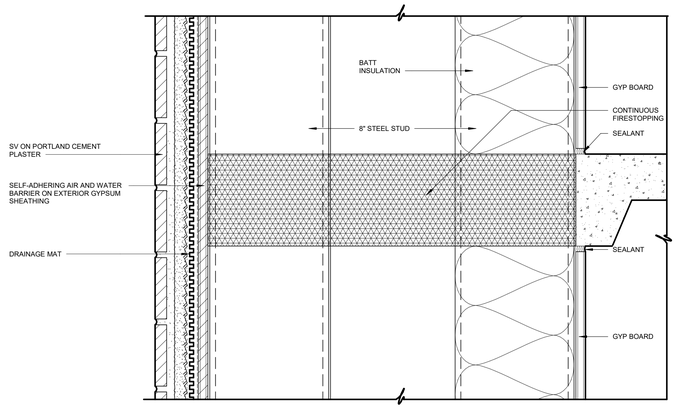
07-15-19	17-13

SHEET NUMBER:
A5.01

WALL SECTION DETAILS



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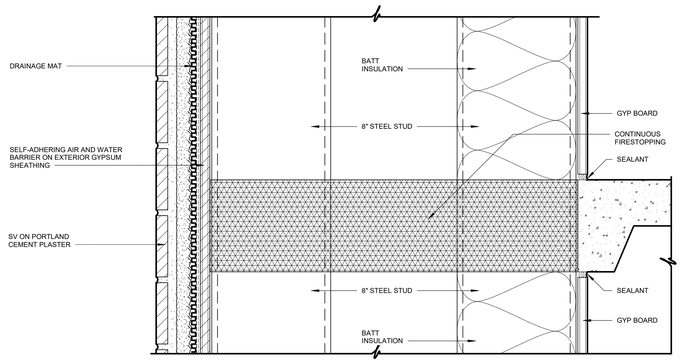

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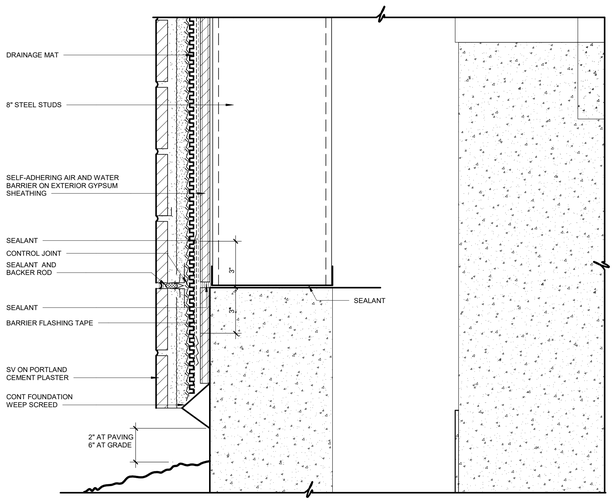

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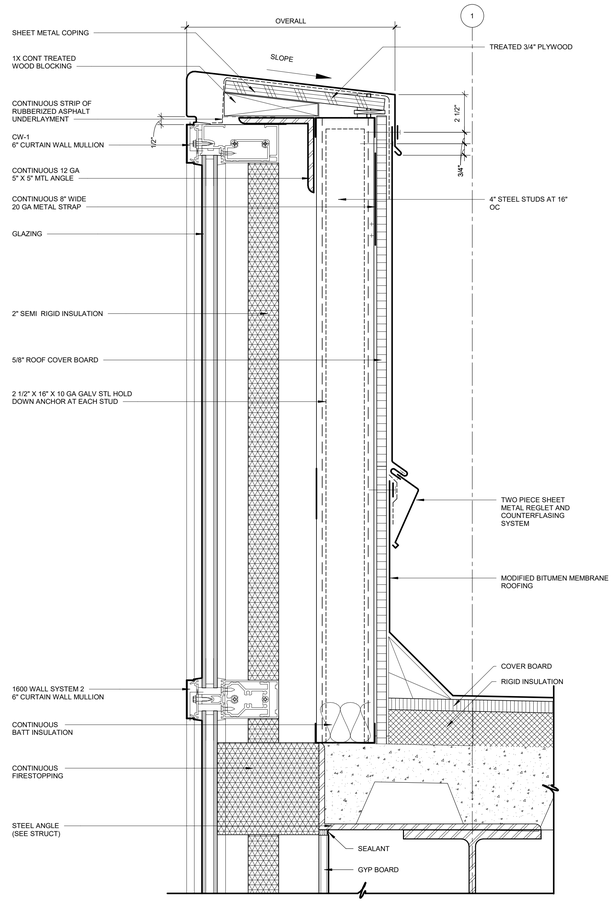

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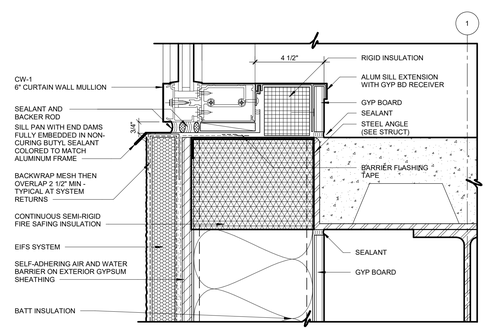

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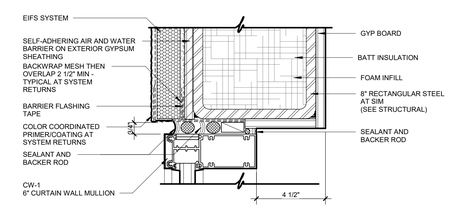

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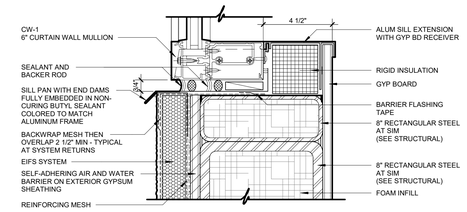

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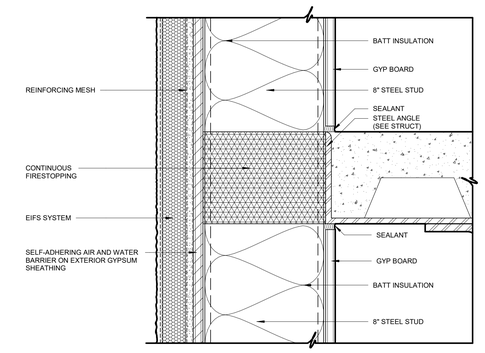

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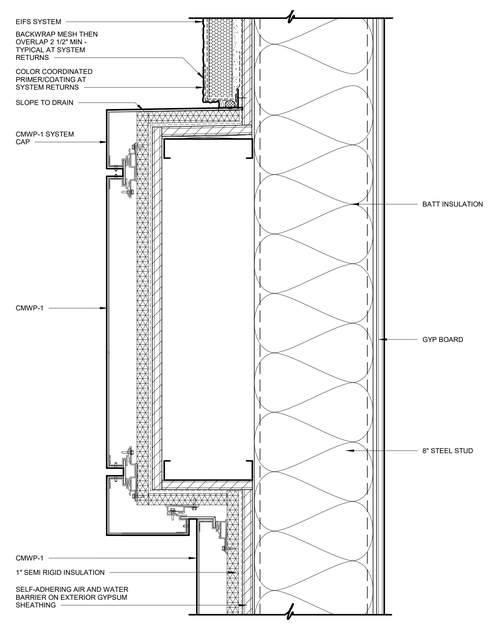

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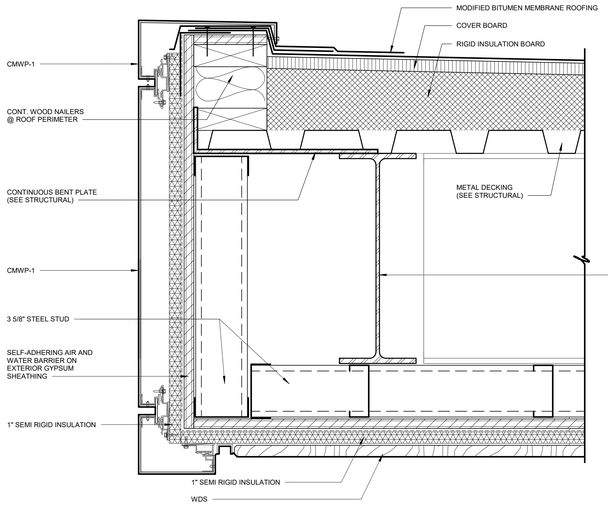
DATE:	JOB NUMBER:
07-15-19	17-13

SHEET NUMBER:
A5.02

WALL SECTION DETAILS



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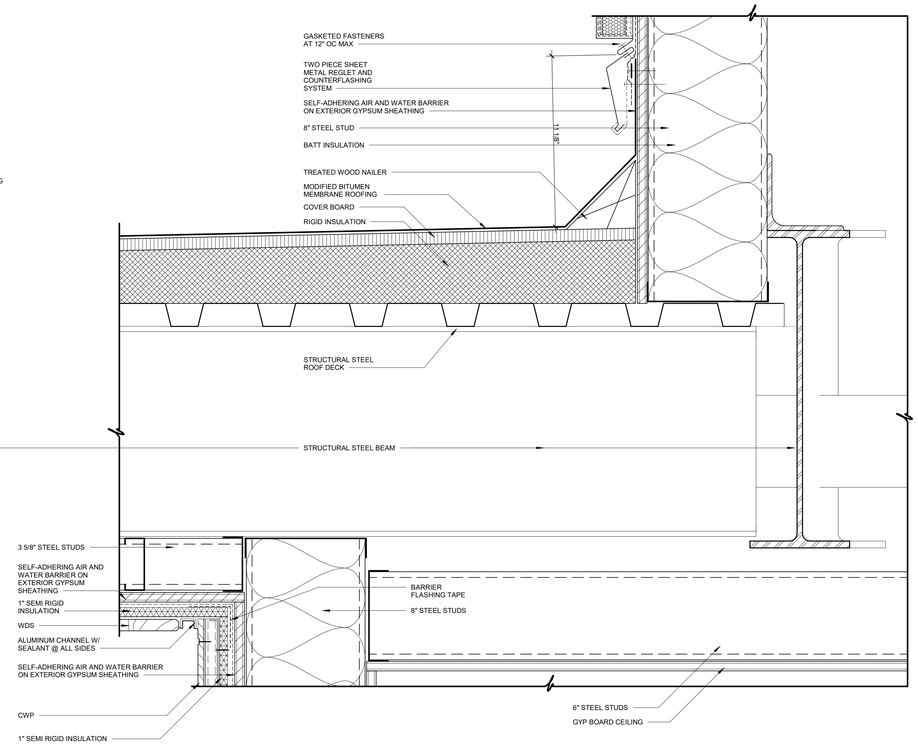

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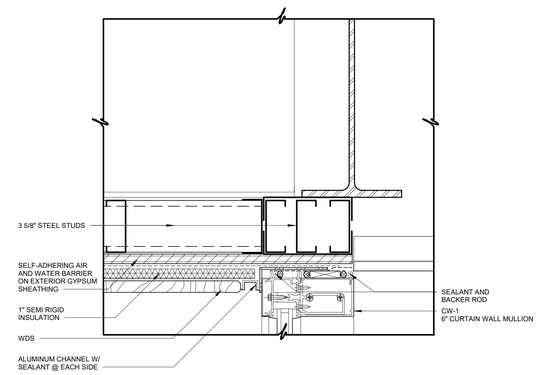

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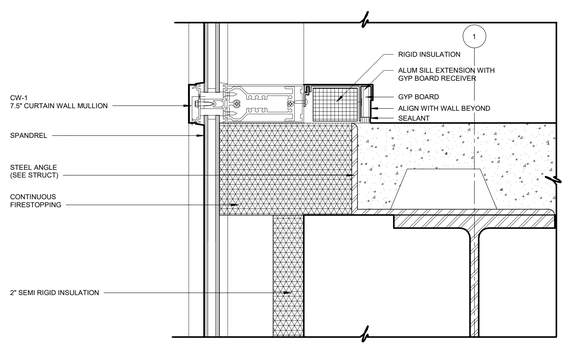

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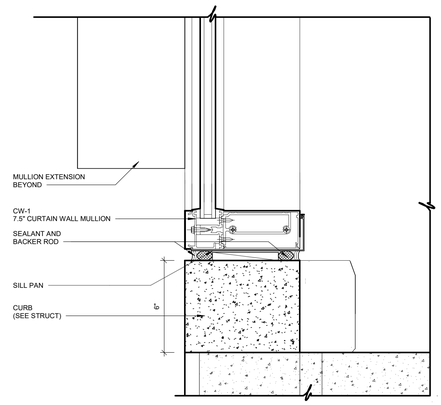

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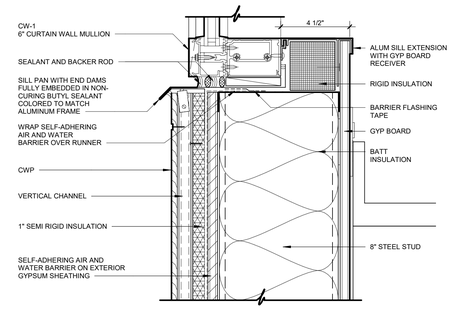

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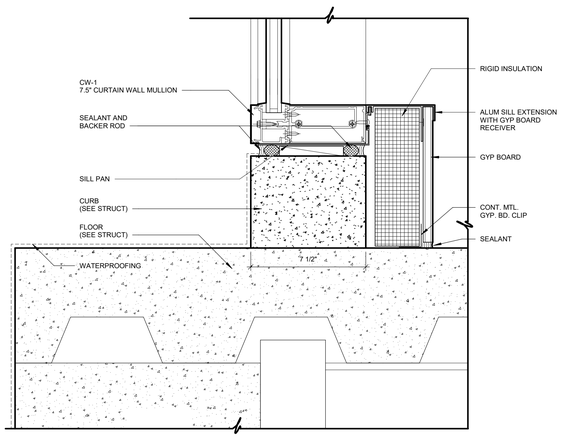

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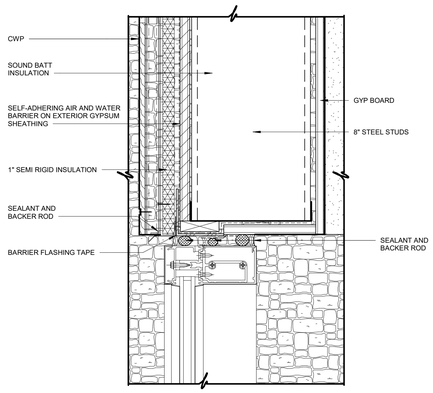

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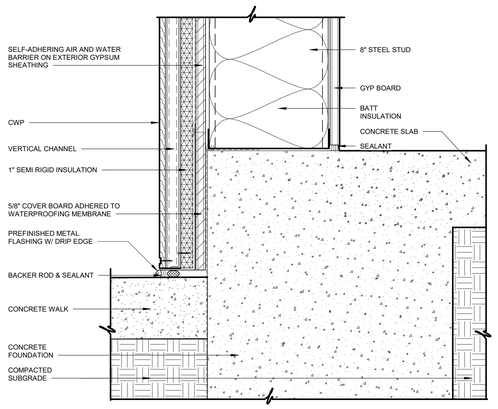

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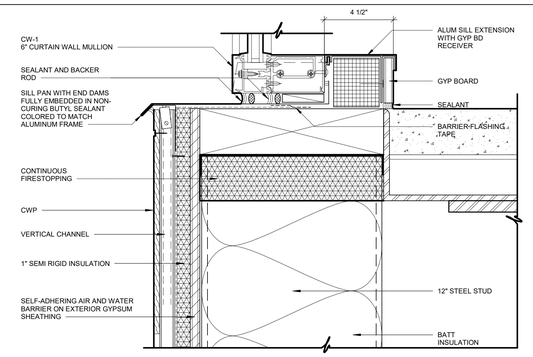
WALL SECTION DETAILS



11 WALL SECTION DETAIL
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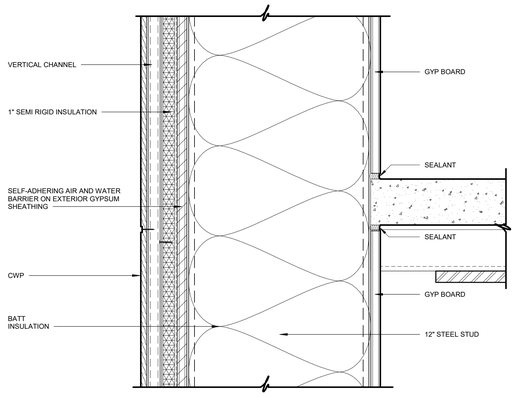

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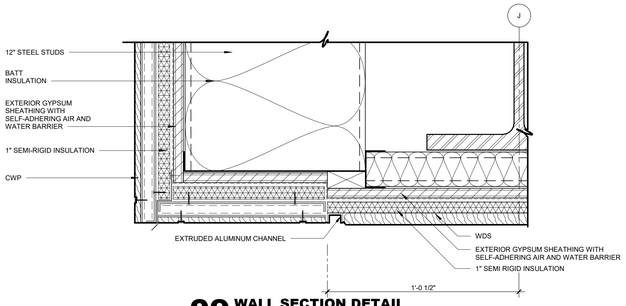

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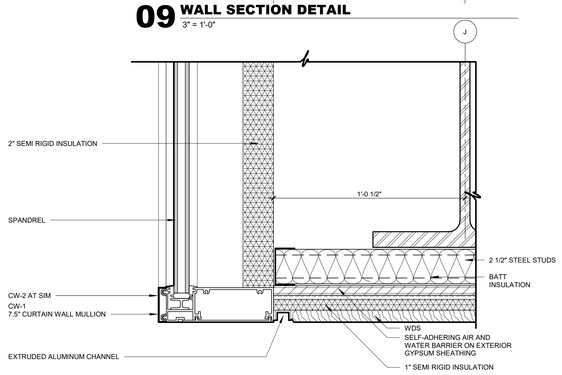

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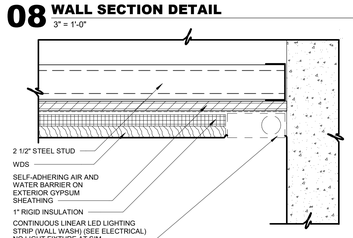

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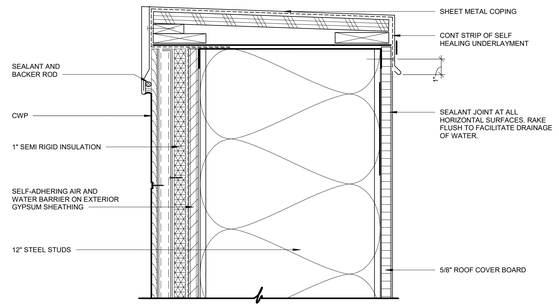

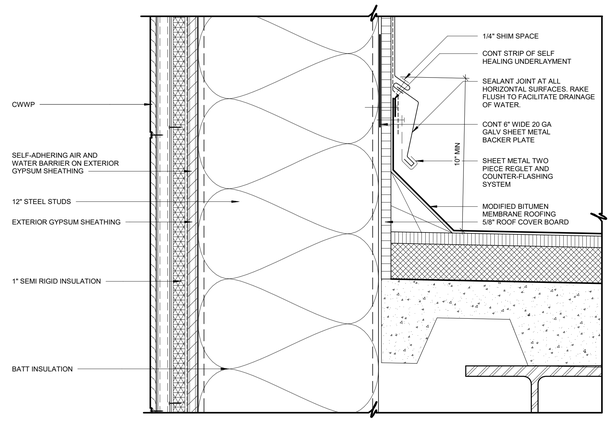

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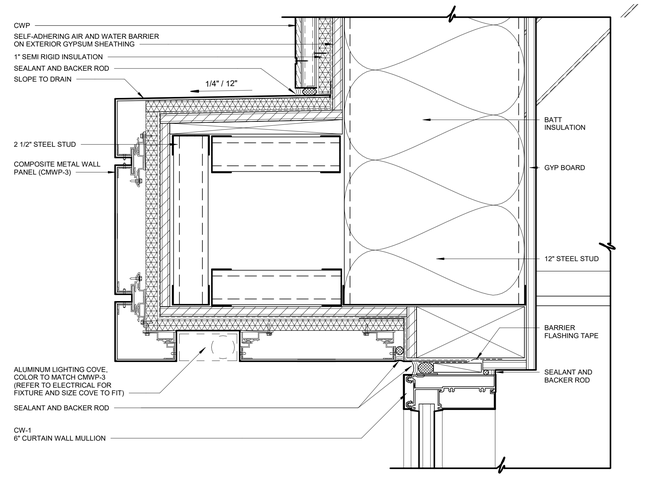

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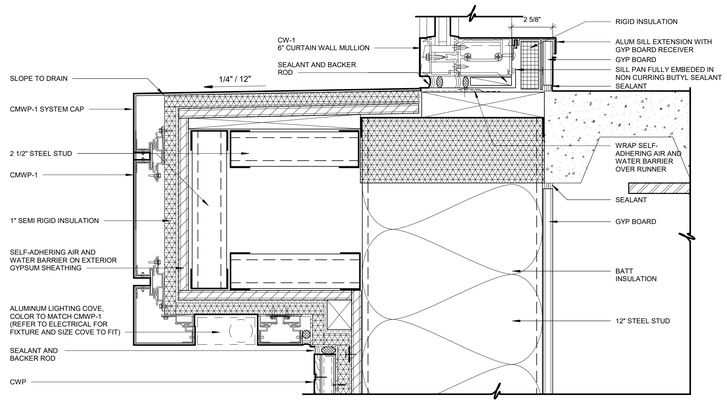

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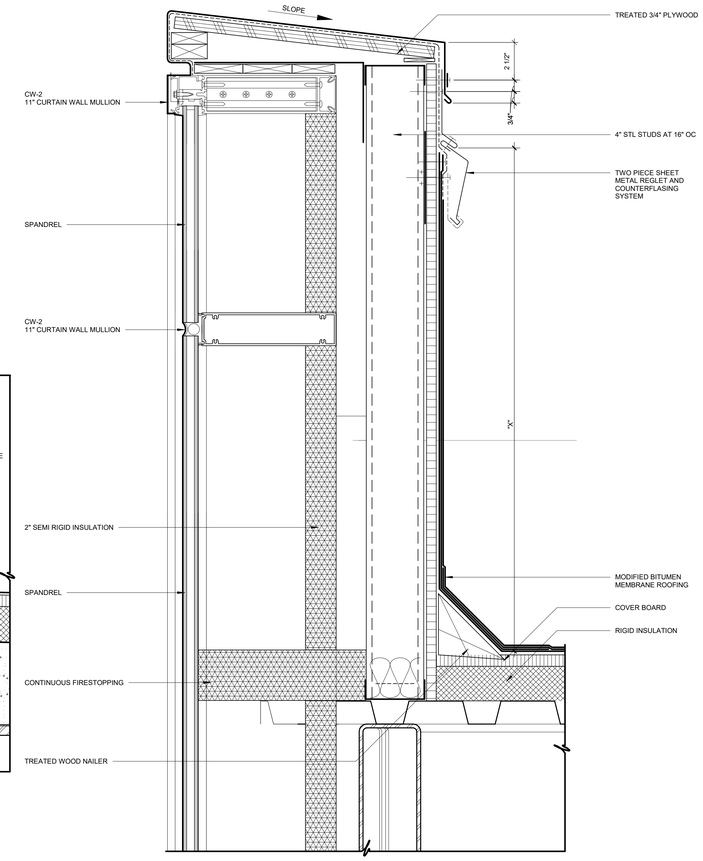

03 WALL SECTION DETAIL
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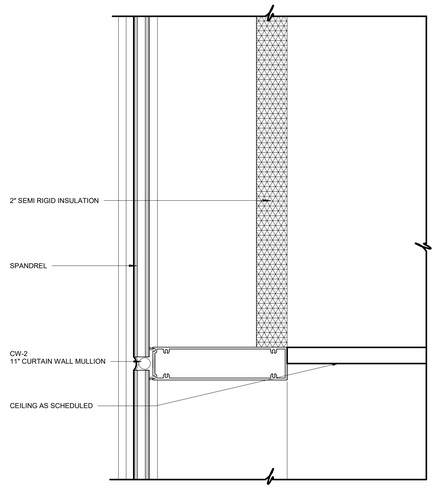

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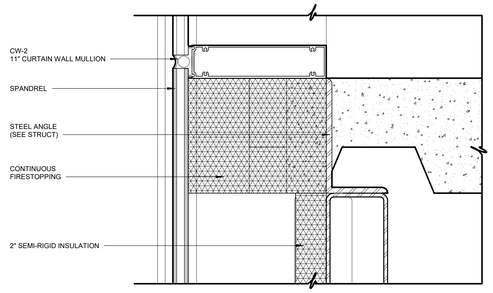

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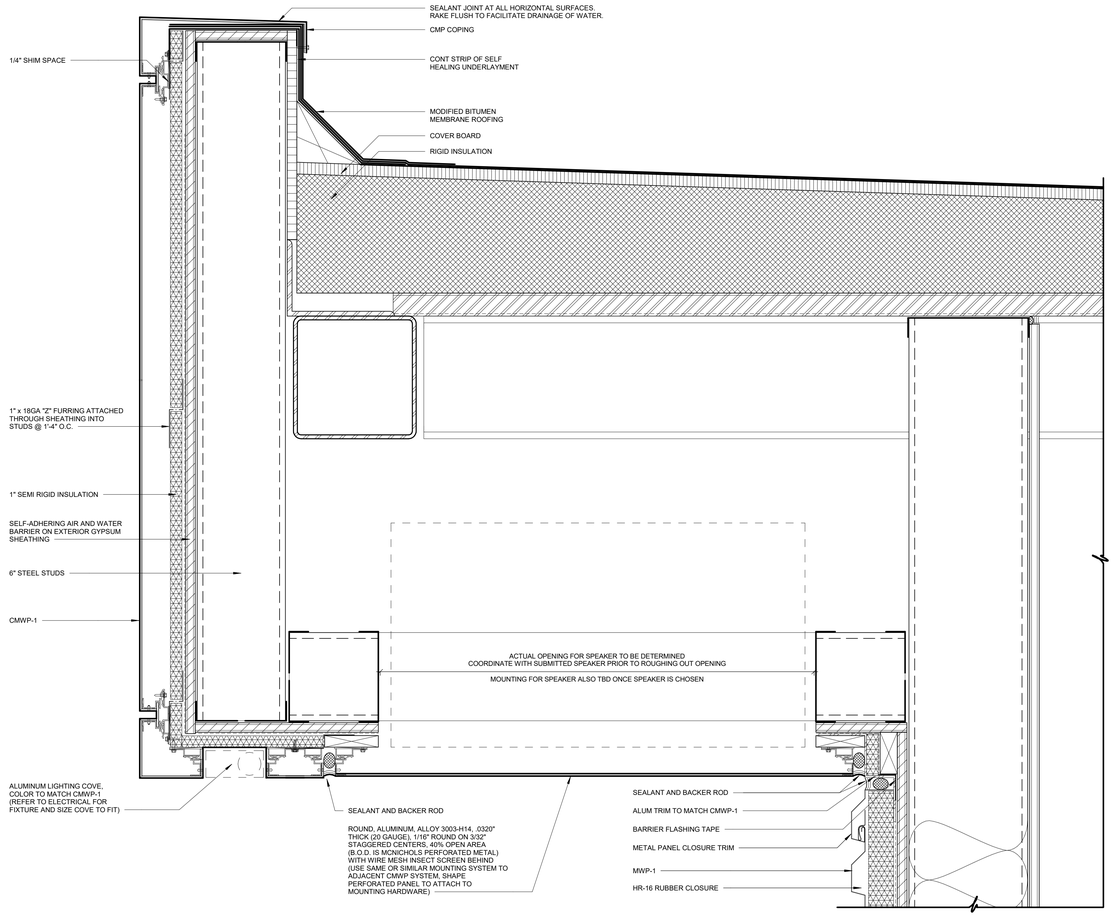
A5.04

WALL SECTION DETAILS



07 WALL SECTION DETAIL
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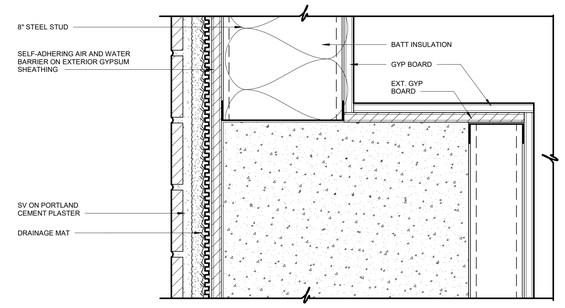

04 WALL SECTION DETAIL
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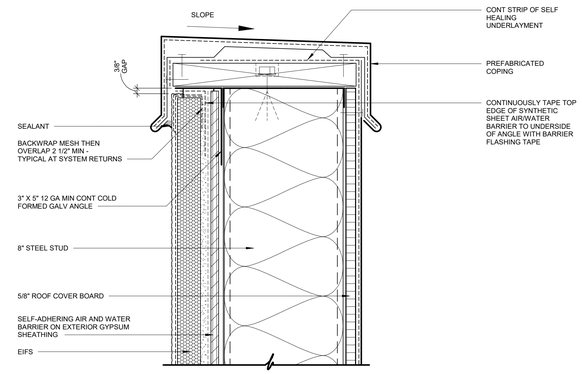

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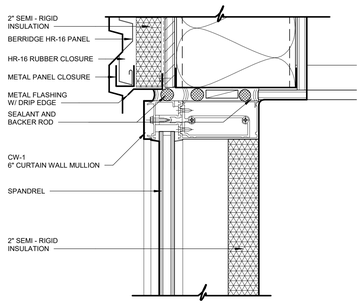

11 WALL SECTION DETAIL
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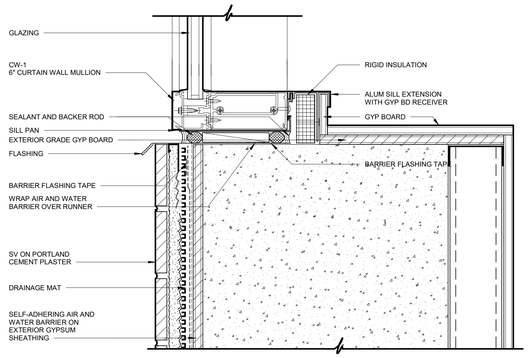

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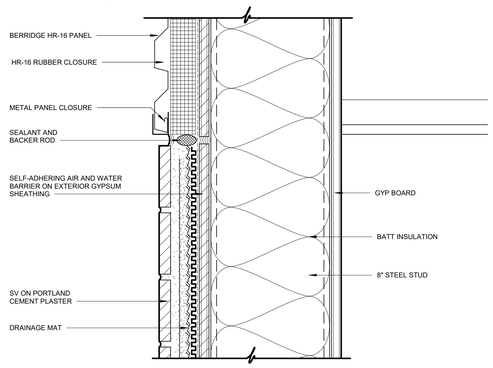

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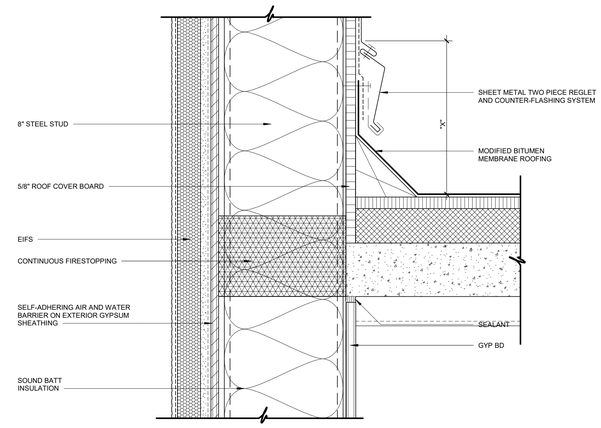

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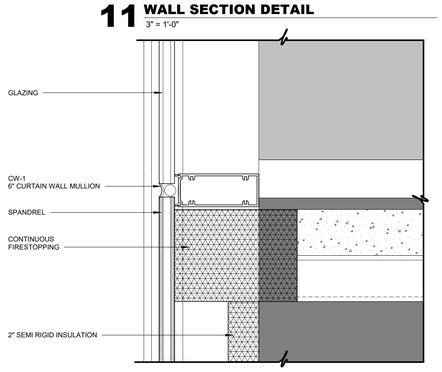

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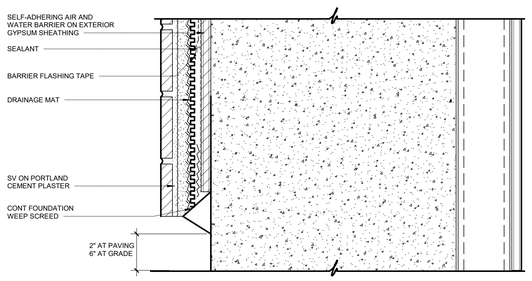

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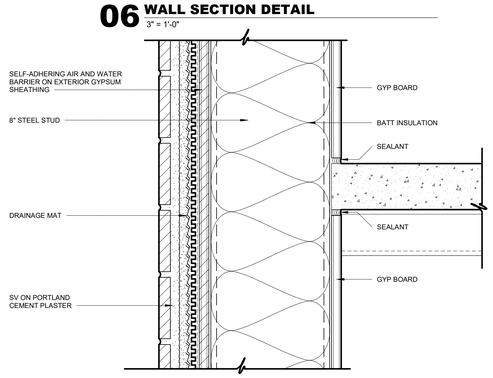

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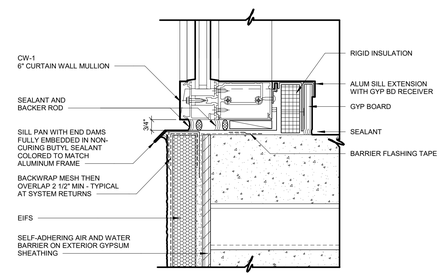

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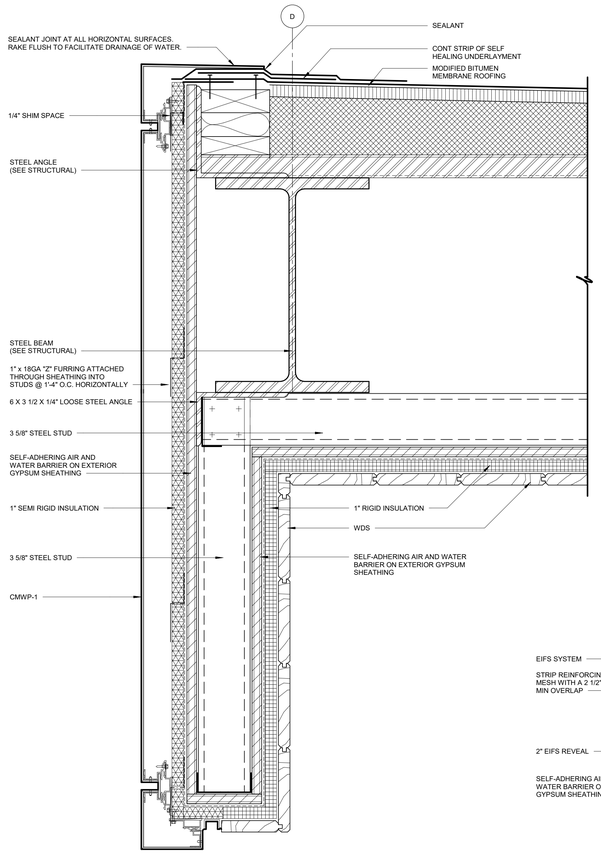
WALL SECTION DETAILS



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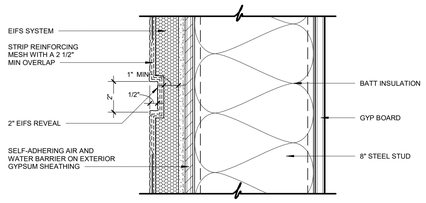

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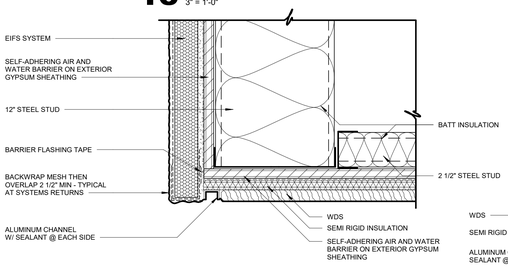

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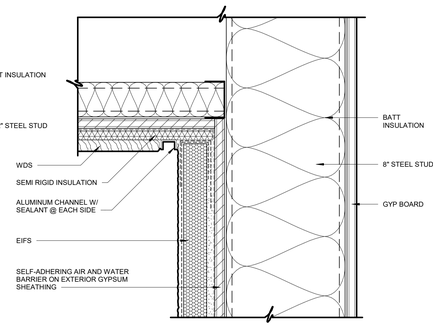

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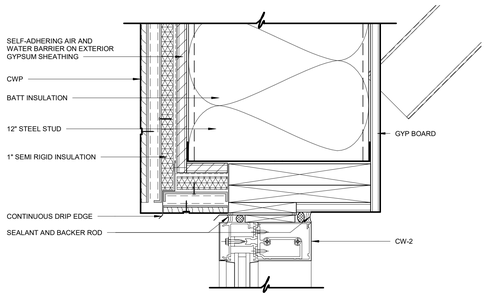

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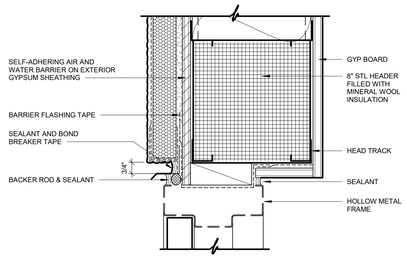

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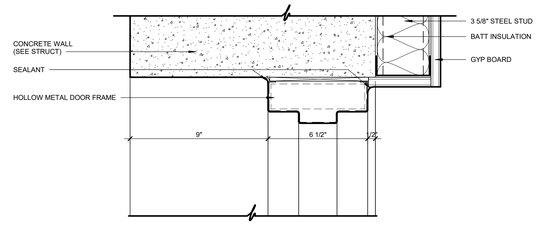

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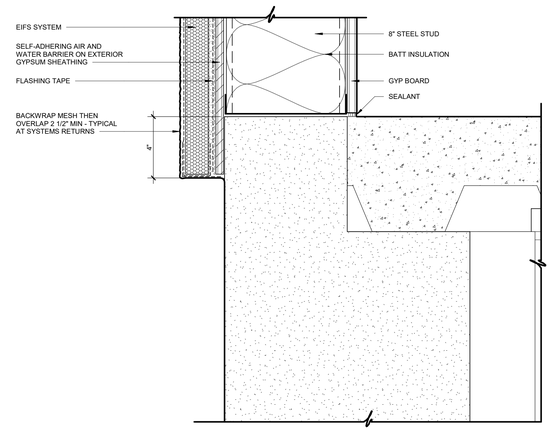

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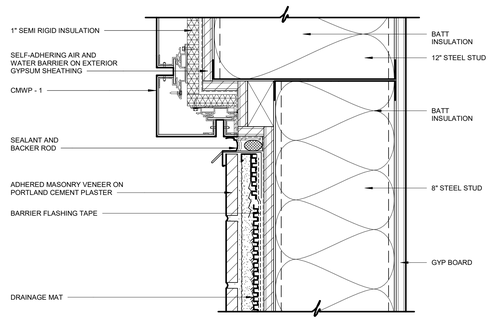

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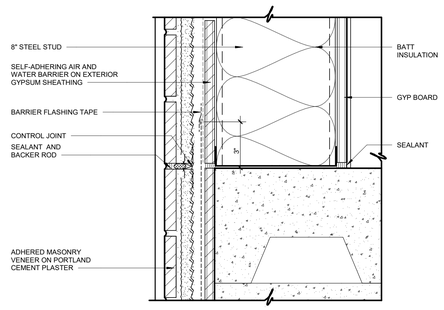

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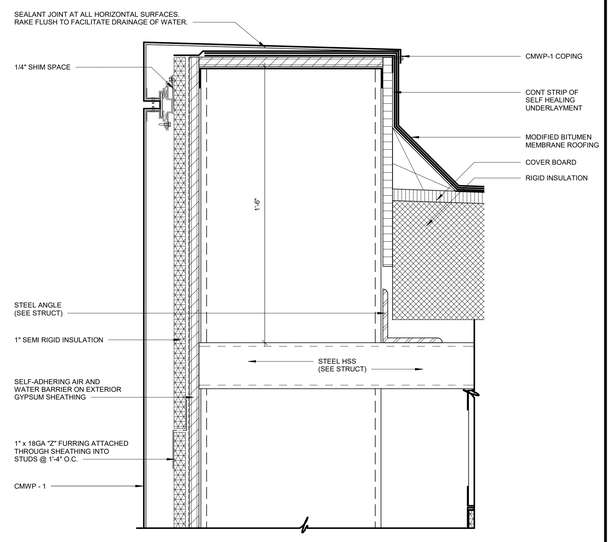

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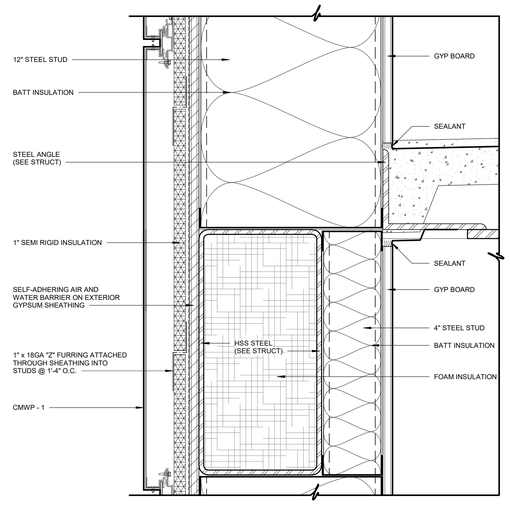

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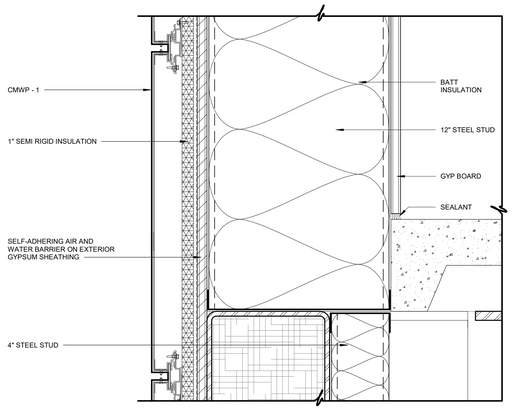

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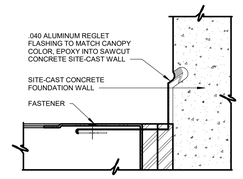
WALL SECTION DETAILS



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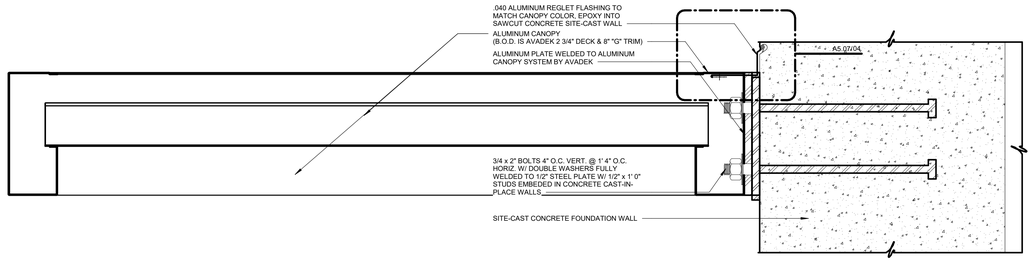

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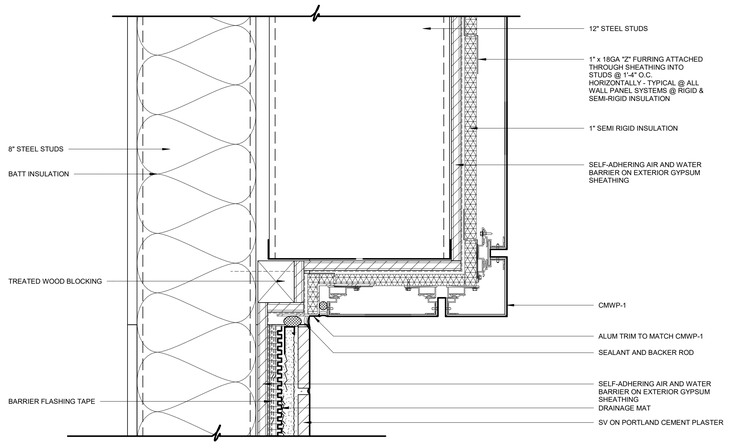

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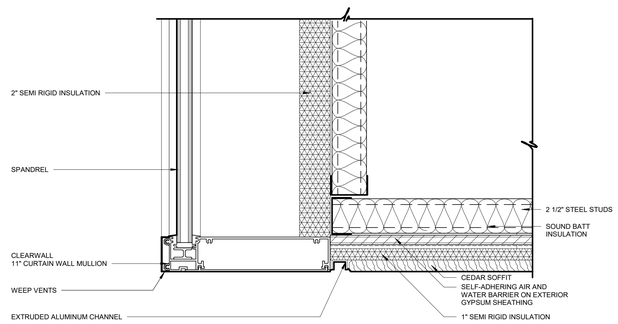

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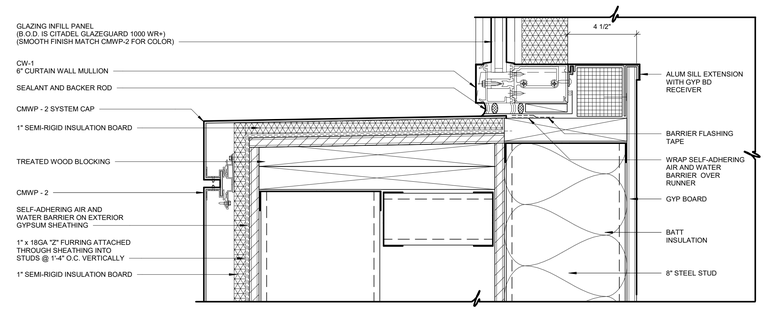

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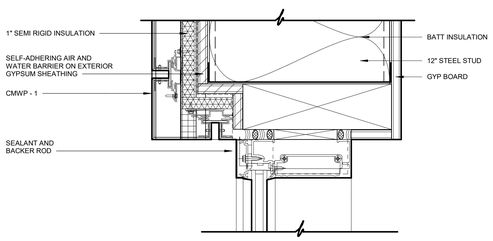

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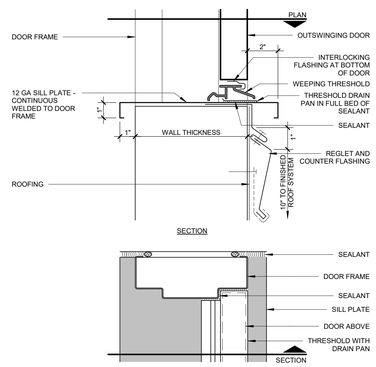

05 ROOF ACCESS DOOR DETAIL
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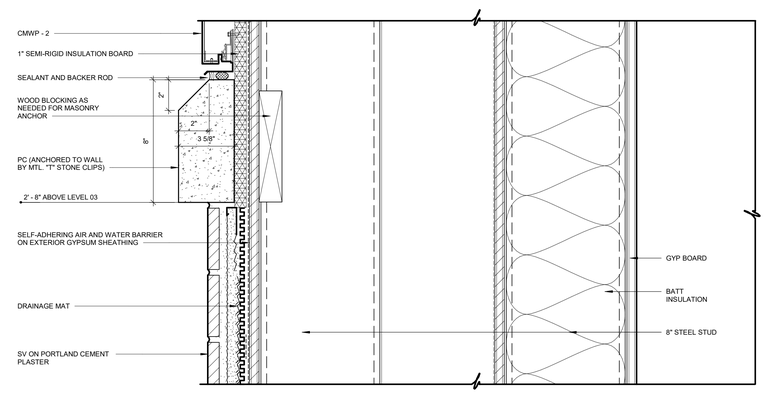

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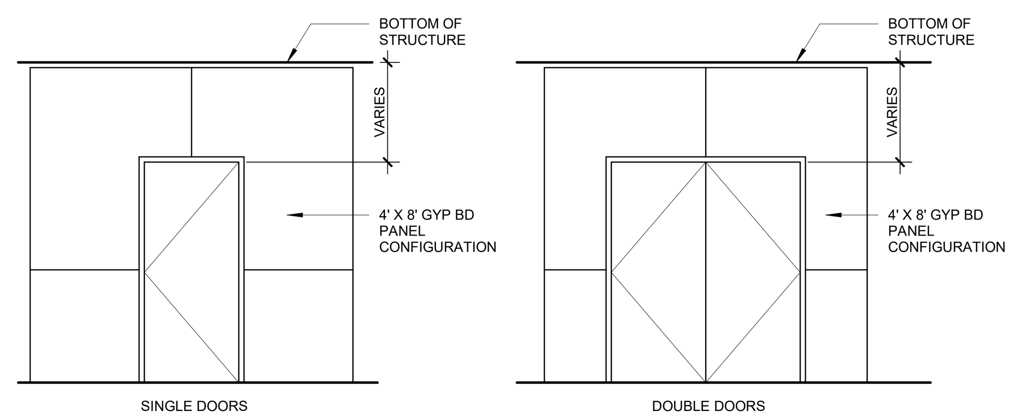
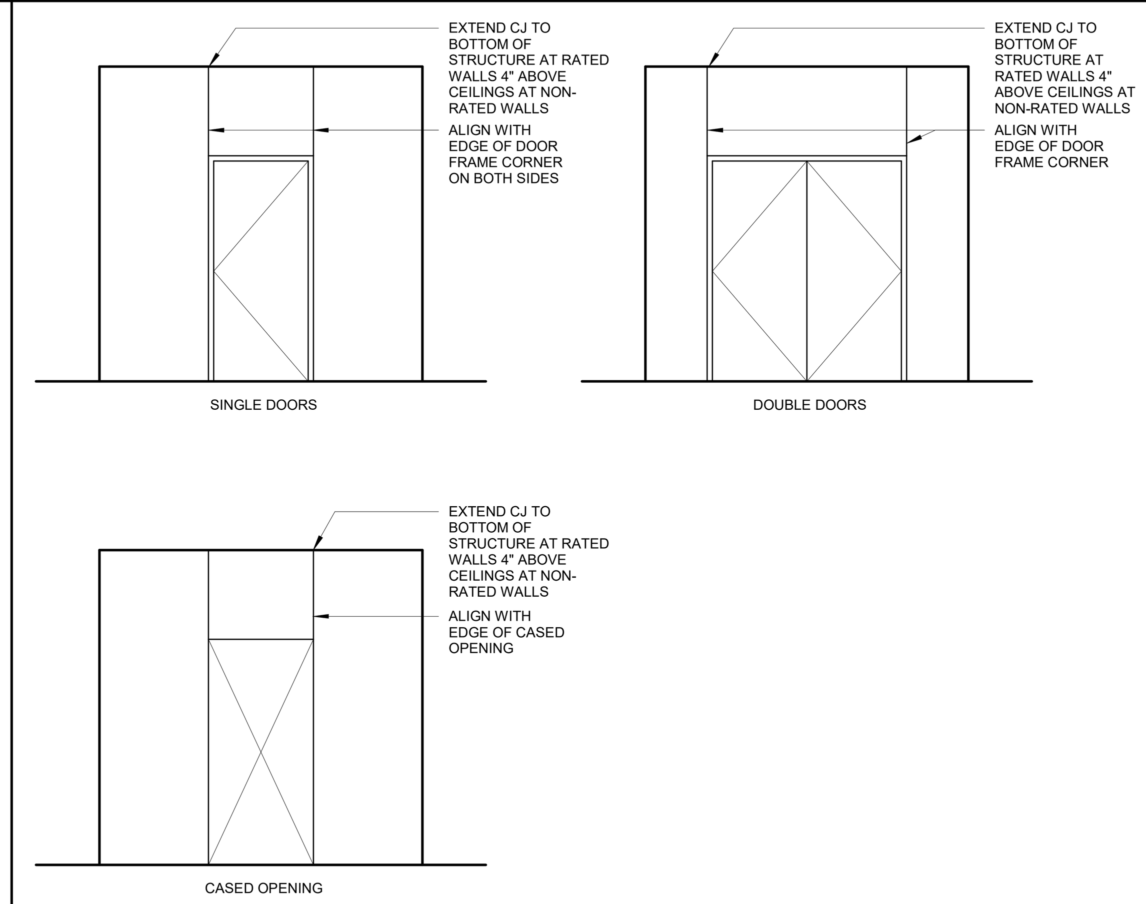
WALL SECTION DETAILS

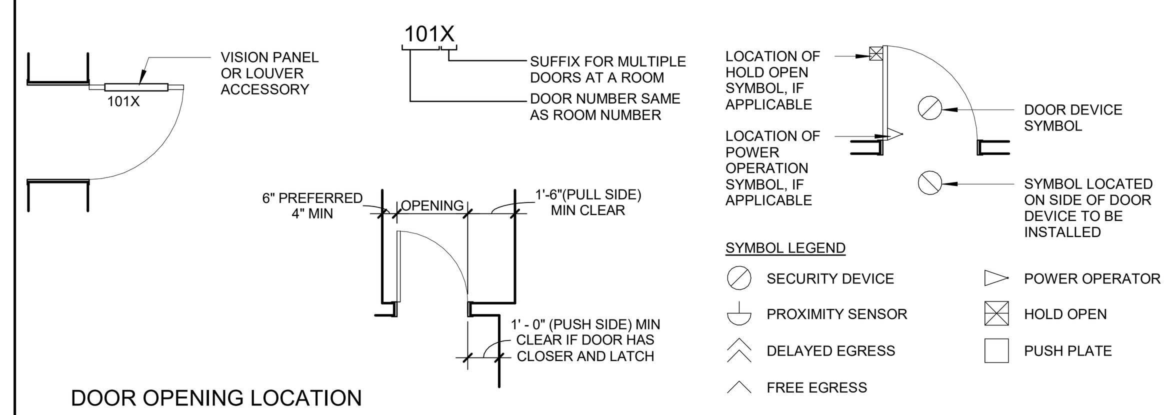
GYPSUM BD CONFIGURATION AT DOORS



CONTROL JOINT AT DOOR FRAMES



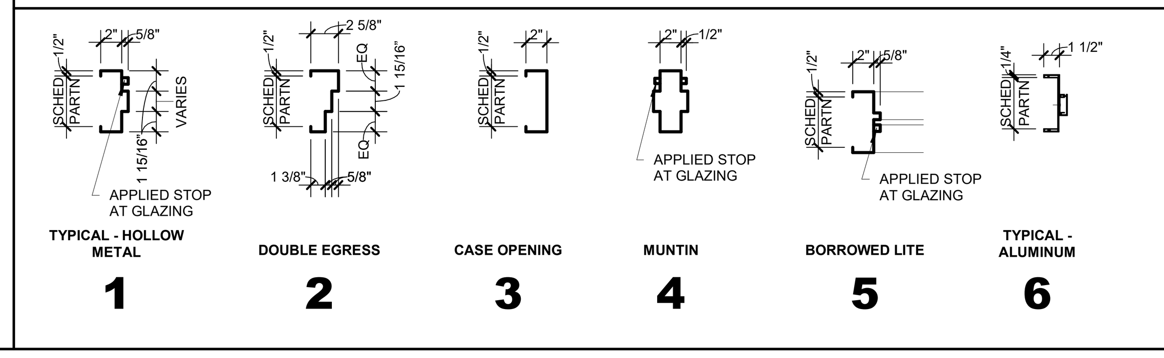
DOOR PLAN DESIGNATION



A. DOORS SHOWN ADJACENT TO A FLANKING WALL OR OTHER FIXED OBSTRUCTION, SHALL BE LOCATED AS SHOWN ABOVE.

B. OTHER LOCATIONS SHALL BE ON CENTERLINE OF ROOM OR AS SPECIFICALLY DIMENSIONED.

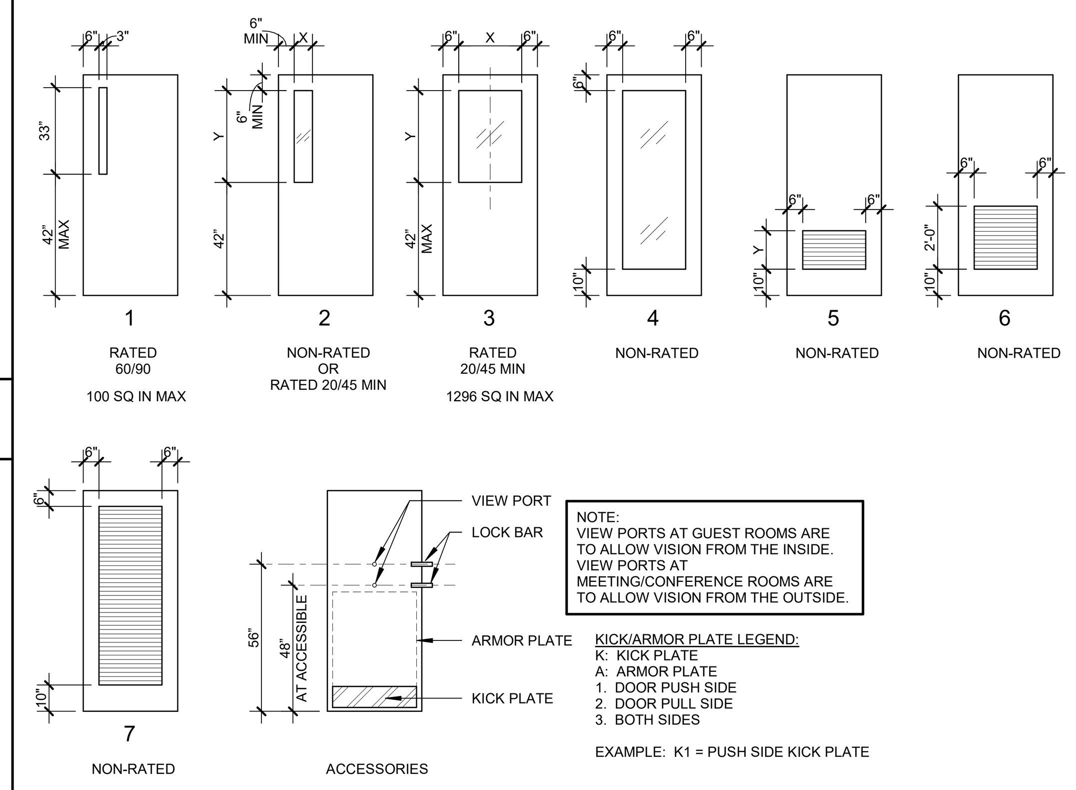
FRAME TYPES



VISION PANELS / LOUVERS / ACCESSORIES

DOOR NOTES

1. CONTRACTORS TO USE THE ARCHITECT'S FLOOR PLAN DESIGNATION DOOR NUMBER IN ADDITION TO THE ROOM NUMBER ON ALL SHOP DRAWING SCHEDULE SUBMITTALS.



DOOR SCHEDULE

DOOR SCHEDULE

DOOR REVISION	DOOR NUMBER	WIDTH	HEIGHT	DOOR TYPE	FRAME TYPE	DOOR MATERIAL	FRAME MATERIAL	VISION PANEL & LOUVER TYPE	POWER OPERATOR	HOLD OPEN	DOOR CONTROL A	DOOR CONTROL B	FIRE RATING	HARDWARE	COMMENTS
					MATERIALS AND FINISHES				CONTROLS						
BASEMENT LEVEL															
-	B001	6' - 0"	7' - 0"	A2	1	WD	HM	-	-	-	-	-	-	200	-
-	B002	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	201	-
-	B003A	3' - 6"	7' - 0"	A1	1	WD	HM	2	-	-	CR	-	-	C701W	-
-	B003B	3' - 0"	7' - 0"	A1	1	WD	HM	2	-	-	-	-	-	503	-
-	B003C	6' - 0"	7' - 10"	A2	1	WD	HM	2	-	-	CR	-	-	CE200S	-
-	B004	3' - 0"	7' - 0"	A1	1	WD	HM	2	-	-	-	-	-	103	-
-	B005	3' - 0"	7' - 0"	A1	1	WD	HM	2	-	-	-	-	-	503	-
-	B006	6' - 0"	7' - 0"	A2	1	HM	HM	-	-	-	CR	-	-	CE214	
-	B007A	6' - 0"	7' - 10"	A2	1	WD	HM	2	-	-	CR	-	-	CE206	-
-	B007B	3' - 6"	7' - 0"	A1	1	WD	HM	2	-	-	CR	-	-	C701W	-
-	B008	3' - 0"	7' - 0"	G2		WD	STL	-					-	004	
-	B009	3' - 6"	7' - 0"	A1	1	WD	HM	2	-	-	-	-	-	503W	-
-	B010	6' - 0"	7' - 0"	A2	1	HM	HM	-	-	-	CR	-	-	CE214	
-	B011A	3' - 9"	7' - 0"	A1	1	WD	HM	-	-	-	CR	-	90	C741RW	-
-	B011B	3' - 9"	7' - 0"	A1	1	HM	HM	-	-	-	-	-	90	725W	
-	B012	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	201	-
-	B014A	3' - 6"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	45	201W	-
-	B014B	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	CR	-	90	201	-
-	B015	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	507	-
-	B016	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	103	-
-	B017	6' - 0"	7' - 0"	A2	1	WD	HM	1	-	-	-	-	-	200S	-
-	B018	4' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	CR	-	-	CE201W	-
-	B019A	4' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	711CRW	-
-	B019B	4' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	711CRW	-
-	B020	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	90	711CR	-
-	B021	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	201	-
-	B022	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	201	-
-	B023	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	801	-
-	B024	3' - 0"	7' - 0"	A1	1	WD	HM	2	-	-	-	-	-	103	-
-	B025	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	801	-
-	B027	3' - 0"	7' - 0"	A1	1	WD	HM	2	-	-	-	-	-	103	-
-	B028	3' - 6"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	201CW	-
-	B029	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	90	731CR	-
-	B029	3' - 0"	7' - 0"	A1	1	HM	HM	-	-	-	-	-	45	725RW	
LEVEL 01															
-	1000A	6' - 0"	8' - 0"	C2		AL/GL	AL		-	-	CR	-	-	C714A	
-	1000B	6' - 0"	8' - 0"	C2		AL/GL	AL		-	-	-	-	-	800AV	
	1001A	3' - 0"	8' - 0"			AL/GL	AL								
-	1001B	3' - 0"	8' - 0"	C1		AL/GL	AL		-	-	-	-	-	715A	
-	1002	2' - 10"	7' - 0"	G2		WD	STL	-					-	004	
-	1005	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	201	-
-	1008	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	CR	-	-	CE201C	-
-	1009A	3' - 0"	7' - 0"	A1	1	WD	HM	2	-	-	-	-	-	701C	-
-	1009B	3' - 6"	7' - 0"	A1	1	WD	HM	2	-	-	-	-	-	701W	-
-	1009C	3' - 0"	7' - 0"	A1	1	WD	HM	2	-	-	-	-	-	701C	-
-	1010	3' - 0"	7' - 0"	A1	1	WD	HM	6	-	-	-	-	-	203S	-
-	1011A	3' - 0"	7' - 0"	A1	1	WD	HM	3	-	-	-	-	-	701	-
-	1011B	3' - 0"	7' - 0"	A1	1	WD	HM	4	-	-	-	-	-	701	-
-	1012	3' - 0"	7' - 0"	A1	1	WD	HM	3	-	-	-	-	-	403	-
-	1013	3' - 0"	7' - 0"	A1	1	WD	HM	4	-	-	-	-	-	407G	-
-	1014	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	201	-
-	1015	3' - 0"	7' - 0"	A1	1	WD	HM	4	-	-	-	-	-	403	-
-	1016	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	201	-
-	1017	6' - 0"	7' - 0"	A2	1	WD	HM	4	-	-	CR	-	-	C700	-
-	1018	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	801	-
-	1019	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	801	-
-	1020	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	303	-
-	1021	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	201	-
-	1022	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	303	-
-	1023	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	303	-
-	1024	3' - 0"	7' - 0"	A1	1	WD	HM	4	-	-	-	-	-	401	-
-	1025	3' - 0"	7' - 0"	A1	1	WD	HM	4	-	-	-	-	-	401	-
-	1026A	3' - 0"	7' - 0"	A1	1	WD	HM	4	-	-	-	-	-	701	-
-	1026B	3' - 0"	7' - 0"	A1	1	WD	HM	4	-	-	-	-	-	701	-
-	1027	3' - 0"	7' - 0"	A1	1	WD	HM	4	-	-	-	-	-	401	-
-	1028	3' - 9"	7' - 0"	A1	1	WD	HM	-	-	-	CR	-	90	C741RW	-
-	1029	3' - 0"	7' - 0"	A1	1	HM	HM	-	-	-	-	-	-	725R	
-	1030	3' - 0"	7' - 0"	A1	1	HM	HM	-	-	-	CR	-	-	C715	
-	1031A	3' - 6"	7' - 0"	A1	1	WD	HM	2	-	-	CR	-	-	C701W	-
-	1031B	3' - 6"	7' - 0"	A1	1	WD	HM	2	-	-	CR	-	-	C701W	-
-	1032	8' - 0"	7' - 6"	S1		WD	AL				-	-		003	
-	1034	3' - 0"	7' - 0"	G2		WD	STL	-					-	004	
-	1035	3' - 0"	7' - 0"	G2		WD	STL	-					-	004	
-	1037A	3' - 0"	7' - 0"	A1	1	WD	HM	2	-	-	-	-	-	403	-
-	1037B	3' - 0"	7' - 0"	A1	1	WD	HM	2	-	-	-	-	-	403	-
-	1038	3' - 0"	7' - 0"	G2		WD	STL	-					-	004	
-	1039	6' - 0"	7' - 0"	A2	1	WD	HM	-	-	-	CR	-	-	CE206	-
-	1040	8' - 0"	7' - 6"	S1		WD	AL				-	-		003	
-	1041	3' - 6"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	201W	-
-	1042	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	303	-
-	1044	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	303	-
-	1046	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	103	-
-	1047	3' - 6"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	493SW	-
-	1048	3' - 6"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	201W	-
-	1049	3' - 0"	7' - 0"	G2		WD	STL	-					-	004	
-	1050	3' - 0"	7' - 0"	G2		WD	STL	-					-	004	
-	1052	3' - 6"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	201W	-
-	1053	3' - 0"	7' - 0"	G2		WD	STL	-					-	004	
-	1055	8' - 0"	7' - 6"	S1		WD	AL				-	-	-	003	
-	1056A	3' - 0"	7' - 0"	A1	1	WD	HM	2	-	-	-	-	-	403	-
-	1056B	3' - 0"	7' - 0"	A1	1	WD	HM	2	-	-	-	-	-	403	-
-	1057	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	801	-
-	1058	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	801	-
-	1059	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	403	-
-	1060A	3' - 0"	7' - 0"	A1	1	WD	HM	2	-	-	CR	-	-	C701	-
-	1060B	6' - 0"	7' - 0"	A2	1	WD	HM	2	-	-	CR	-	-	C700C	-
-	1061	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	201	-
-	1062	3' - 0"	7' - 0"	A1	1	WD	HM	6	-	-	-	-	-	201C	-
-	1063	6' - 0"	7' - 0"	A2	1	WD	HM	-	-	-	-	-	-	216	-
-	1064	3' - 0"	7' - 0"	A1	1	WD	HM	2	-	-	CR	-	-	CE201	-
-	1065	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	201	-
-	1066	3' - 0"	7' - 0"	A1	1	WD	HM	4	-	-	-	-	-	503	-
-	1067	3' - 0"	7' - 0"	A1	1	WD	HM	4	-	-	-	-	-	503	-
-	1068A	3' - 9"	7' - 0"	A1	1	WD	HM	-	-	-	CR	-	90	C741RW	-
-	1068B	3' - 9"	7' - 0"	A1	1	HM	HM	-	-	-	-	-	90	725RW	

DOOR SCHEDULE

DOOR REVISION	DOOR NUMBER	WIDTH	HEIGHT	DOOR TYPE	FRAME TYPE	DOOR MATERIAL	FRAME MATERIAL	VISION PANEL & LOUVER TYPE	POWER OPERATOR	HOLD OPEN	DOOR CONTROL A	DOOR CONTROL B	FIRE RATING	HARDWARE	COMMENTS
					MATERIALS AND FINISHES				CONTROLS						
LEVEL 02															
-	2002	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	407G	-
-	2003	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	201	-
-	2005	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	CR	-	-	CE201C	-
-	2006A	6' - 0"	7' - 0"	A2	1	WD	HM	4	-	-	-	-	-	700C	-
-	2006B	3' - 0"	7' - 0"	A1	1	WD	HM	4	-	-	-	-	-	501	-
-	2008	3' - 0"	7' - 0"	A1	1	WD	HM	2	-	-	-	-	-	103	-
-	2009	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	201	-
-	2010	3' - 0"	7' - 0"	A1	1	WD	HM	4	-	-	CR	-	-	CE201	-
-	2011	3' - 0"	7' - 0"	A1	1	WD	HM	4	-	-	-	-	-	407G	-
-	2012	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	201	-
-	2014	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	201	-
-	2015	3' - 0"	7' - 0"	A1	1	WD	HM	4	-	-	-	-	-	401G	-
-	2016	3' - 0"	7' - 0"	A1	1	WD	HM	4	-	-	-	-	-	503	-
-	2017	3' - 0"	7' - 0"	A1	1	WD	HM	4	-	-	-	-	-	401G	-
-	2018	3' - 0"	7' - 0"	A1	1	WD	HM	4	-	-	-	-	-	401G	-
-	2019	3' - 0"	7' - 0"	A1	1	WD	HM	4	-	-	-	-	-	401G	-
-	2020	3' - 0"	7' - 0"	A1	1	WD	HM	4	-	-	-	-	-	401G	-
-	2021	3' - 0"	7' - 0"	A1	1	WD	HM	4	-	-	-	-	-	401G	-
-	2022	3' - 0"	7' - 0"	A1	1	WD	HM	4	-	-	-	-	-	401G	-
-	2023	3' - 0"	7' - 0"	A1	1	WD	HM	4	-	-	-	-	-	403	-
-	2024	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	401G	-
-	2025	3' - 0"	7' - 0"	A1	1	WD	HM	4	-	-	-	-	-	401G	-
-	2026	3' - 0"	7' - 0"	A1	1	WD	HM	4	-	-	-	-	-	401G	-
-	2027	3' - 9"	7' - 0"	A1	1	WD	HM	-	-	-	CR	-	90	C741RW	-
-	2028	3' - 0"	7' - 0"	A1	1	WD	HM	4	-	-	-	-	-	401G	-
-	2029	3' - 0"	7' - 0"	A1	1	WD	HM	4	-	-	-	-	-	401G	-
-	2030	3' - 0"	7' - 0"	A1	1	WD	HM	4	-	-	-	-	-	401G	-
-	2031	3' - 0"	7' - 0"	A1	1	WD	HM	4	-	-	-	-	-	401G	-
-	2032	3' - 0"	7' - 0"	A1	1	WD	HM	4	-	-	-	-	-	401G	-
-	2033	3' - 0"	7' - 0"	A1	1	WD	HM	4	-	-	-	-	-	401G	-
-	2034	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	303	-
-	2035	3' - 0"	7' - 0"	A1	1	WD	HM	4	-	-	-	-	-	401G	-
-	2036	3' - 0"	7' - 0"	A1	1	WD	HM	4	-	-	-	-	-	401G	-
-	2037	3' - 0"	7' - 0"	A1	1	WD	HM	4	-	-	-	-	-	401G	-
-	2038	3' - 0"	7' - 0"	A1	1	WD	HM	4	-	-	-	-	-	401G	-
-	2039	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	303	-
-	2041	3' - 0"	7' - 0"	A1	1	WD	HM	4	-	-	-	-	-	401G	-
-	2042	3' - 0"	7' - 0"	A1	1	WD	HM	4	-	-	-	-	-	401G	-
-	2043	6' - 0"	7' - 0"	A2	1	WD	HM	-	-	-	-	-	-	700C	-
-	2044	6' - 0"	7' - 0"	A2	1	WD	HM	-	-	X	CR	-	-	C708	-
-	2045	6' - 0"	7' - 0"	A2	1	WD	HM	-	-	X	CR	-	-	CE200	-
-	2046A	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	493	-
-	2046B	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	493	-
-	2047A	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	493	-
-	2047B	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	493	-
-	2048A	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	493	-
-	2048B	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	493	-
-	2049A	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	493	-
-	2049B	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	493	-
-	2050A	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	493	-
-	2050B	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	493	-
-	2051A	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	493	-
-	2051B	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	493	-
-	2052	3' - 0"	7' - 0"	A1	1	WD	HM	4	-	-	CR	-	-	C701	-
-	2052B	3' - 0"	7' - 0"	A1	1	WD	HM	2	-	-	-	-	-	731	-
-	2053	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	501	-
-	2054	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	CR	-	-	CE201C	-
-	2055A	3' - 0"	7' - 0"	A1	1	WD	HM	2	-	-	-	-	-	403	-
-	2055B	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	403	-
-	2056A	3' - 0"	7' - 0"	A1	1	WD	HM	2	-	-	-	-	-	403	-
-	2056B	3' - 0"	7' - 0"	A1	1	WD	HM	2	-	-	-	-	-	503	-
-	2057A	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	CR	-	-	C701	-
-	2057B	3' - 0"	7' - 0"	A1	1	WD	HM	2	-	-	-	-	-	731	-
-	2058A	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	493	-
-	2058B	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	493	-
-	2059A	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	493	-
-	2059B	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	493	-
-	2060A	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	493	-
-	2060B	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	493	-
-	2061A	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	493	-
-	2061B	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	493	-
-	2063	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	303	-
-	2064	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	303	-
-	2065	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	373	-
-	2066A	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	403	-
-	2066B	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	403	-
-	2067A	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	103	-
-	2067B	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	103	-
-	2069	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	801	-
-	2070	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	801	-
-	2072	6' - 0"	7' - 0"	A2	1	WD	HM	-	-	-	-	-	-	216	-
-	2073A	6' - 0"	7' - 0"	A2	1	WD	HM	2	-	-	CR	-	-	C700C	-
-	2073B	3' - 0"	7' - 0"	A1	1	WD	HM	2	-	-	CR	-	-	701	-
-	2074	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	201	-
-	2075	3' - 0"	7' - 0"	A1	1	WD	HM	6	-	-	-	-	-	201C	-
-	2076	6' - 0"	7' - 0"	A2	1	WD	HM	4	-	-	-	-	-	406	-
-	2078	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	403	-
-	2079	3' - 9"	7' - 0"	A1	1	WD	HM	-	-	-	CR	-	90	C741RW	-

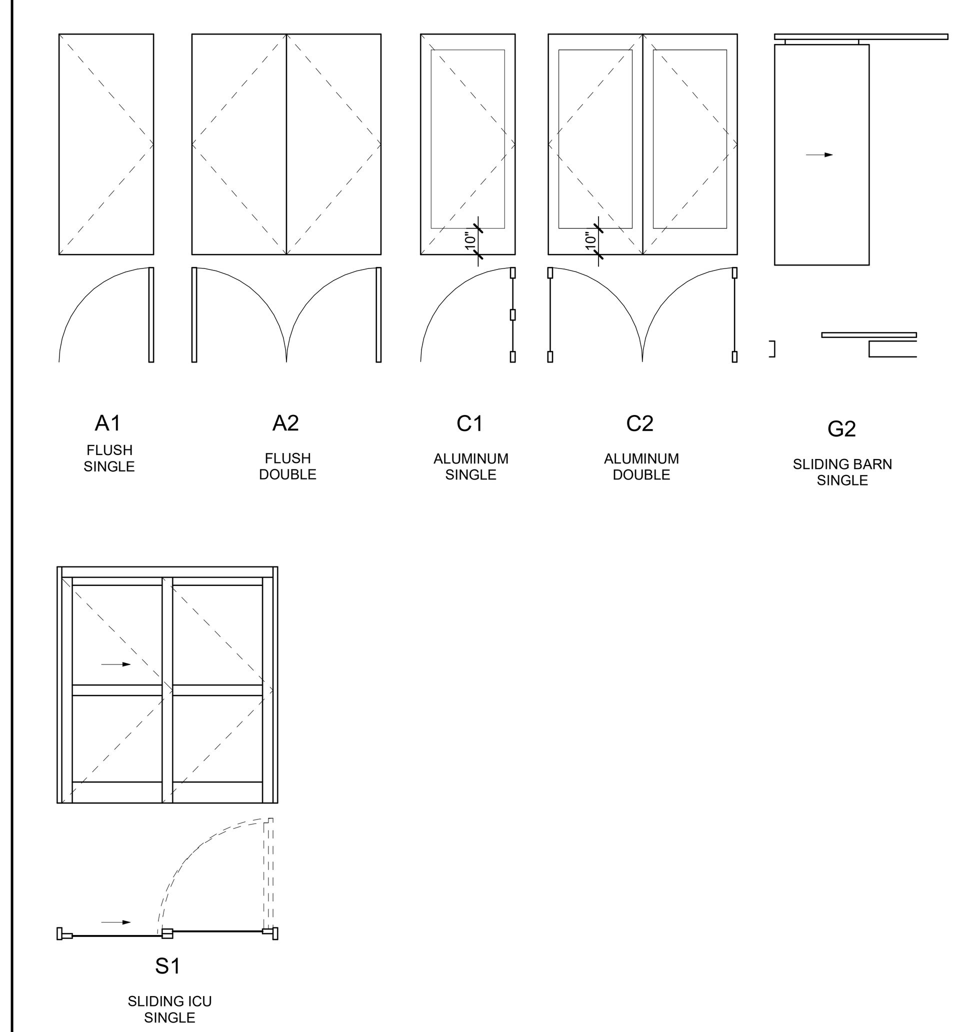
DOOR SCHEDULE

DOOR REVISION	DOOR NUMBER	WIDTH	HEIGHT	DOOR TYPE	FRAME TYPE	DOOR MATERIAL	FRAME MATERIAL	VISION PANEL & LOUVER TYPE	POWER OPERATOR	HOLD OPEN	DOOR CONTROL A	DOOR CONTROL B	FIRE RATING	HARDWARE	COMMENTS
					MATERIALS AND FINISHES				CONTROLS						
LEVEL 03															
-	3001	6' - 0"	7' - 0"	A2	1	WD	HM	4	-	-	-	-	-	406	-
-	3002	3' - 0"	7' - 0"	A1	1	WD	HM	4	-	-	-	-	-	501	-
-	3003	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	201	-
-	3005	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	CR	-	-	CE201C	-
-	3006A	3' - 0"	7' - 0"	A1	1	WD	HM	2	-	-	-	-	-	701	-
-	3006B	3' - 6"	7' - 0"	A1	1	WD	HM	2	-	-	-	-	-	701W	-
-	3006C	3' - 0"	7' - 0"	A1	1	WD	HM	2	-	-	-	-	-	701	-
-	3007	3' - 0"	7' - 0"	A1	1	WD	HM	6	-	-	-	-	-	201C	-
-	3008A	3' - 0"	7' - 0"	A1	1	WD	HM	4	-	-	CR	-	-	CE201	-
-	3008B	3' - 0"	7' - 0"	A1	1	WD	HM	4	-	-	-	-	-	501	-
-	3010	3' - 0"	7' - 0"	A1	1	WD	HM	4	-	-	CR	-	-	CE201	-
-	3011	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	103	-
-	3012	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	103	-
-	3014	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	201	-
-	3015	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	103	-
-	3017	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	103	-
-	3018	2' - 6"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	203	-
-	3019	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	103	-
-	3020	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	103	-
-	3020A	2' - 6"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	203	-
-	3021	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	403	-
-	3022	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	403	-
-	3023	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	103	-
-	3024	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	201	-
-	3025	3' - 0"	7' - 0"	G2		WD	STL	-					-	004	
-	3026	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	CR	-	-	CE201	-
-	3027	3' - 0"	7' - 0"	A1	1	WD	HM	4	-	-	-	-	-	403	-
-	3028	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	103	-
-	3029	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	103	-
-	3030	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	103	-
-	3031	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	103	-
-	3032	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	103	-
-	3033	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	103	-
-	3034	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	501	-
-	3036	3' - 9"	7' - 0"	A1	1	WD	HM	-	-	-	CR	-	90	C741RW	-
-	3037	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	CR	-	-	CE201	-
-	3038	3' - 0"	7' - 0"	A1	1	WD	HM	2	-	-	CR	-	-	CE201	-
-	3039	3' - 0"	7' - 0"	A1	1	WD	HM	4	-	-	-	-	-	403	-
-	3040	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	503	-
-	3042	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	CR	-	45	CE201	-
-	3043	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	103	-
-	3045	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	103	-
-	3046	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	103	-
-	3047	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	103	-
-	3048	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	103	-
-	3049	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	103	-
-	3050	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	103	-
-	3051	3' - 0"	7' - 0"	A1	1	WD	HM	2	-	-	-	-	-	103	-
-	3052	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	103	-
-	3053	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	103	-
-	3054	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	103	-
-	3055	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	103	-
-	3056	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	103	-
-	3057	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	103	-
-	3058	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	103	-
-	3059	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	103	-
-	3060	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	103	-
-	3061	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	103	-
-	3062	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	103	-
-	3063	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	103	-
-	3064	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	103	-
-	3065	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	103	-
-	3066	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	103	-
-	3067	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	103	-
-	3069	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	103	-
-	3070	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	103	-
-	3071	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	103	-
-	3072	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	103	-
-	3073	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	103	-
-	3074	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	103	-
-	3075	3' - 0"	7' - 0"	A1	1	WD	HM	4	-	-	-	-	-	103	-
-	3076	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	103	-
-	3077	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	103	-
-	3078	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	103	-
-	3079	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	103	-
-	3080	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	103	-
-	3081	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	103	-
-	3082	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	103	-
-	3083	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	103	-
-	3084	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	103	-
-	3085	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	103	-
-	3086	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	103	-
-	3087	3' - 9"	7' - 0"	A1	1	WD	HM	-	-	-	CR	-	90	C741RW	-
-	3089	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	103	-
-	3090	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	103	-
-	3091A	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	503	-
-	3091B	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	503	-
-	3093	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	103	-
-	3094	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	501	-
-	3095	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	103	-
-	3096	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	103	-
-	3097	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	103	-
-	3098	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	103	-
-	3099	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	103	-
-	3101	6' - 0"	7' - 0"	A2	1	WD	HM	-	-	-	-	-	-	216	-
-	3102	6' - 0"	7' - 0"	A2	1	WD	HM	-	-	-	-	-	-	216	-
-	3104	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	201C	-
-	3105	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	801	-
-	3106A	3' - 0"	7' - 0"	A1	1	WD	HM	4	-	-	-	-	-	701	-
-	3106B	3' - 0"	7' - 0"	A1	1	WD	HM	4	-	-	-	-	-	701	-
-	3108	3' - 0"	7' - 0"	A1	1	WD	HM	4	-	-	-	-	-	403	-
-	3109	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	801	-
-	3110A	3' - 0"	7' - 0"	A1	1	WD	HM	4	-	-	-	-	-	701C	-
-	3110B	3' - 0"	7' - 0"	A1	1	WD	HM	4	-	-	-	-	-	701	-
-	3111	6' - 0"	7' - 0"	A2	1	WD	HM	-	-	-	-	-	-	216	-
-	3112	3' - 0"	7' - 0"	A1	1	WD	HM	4	-	-	-	-	-	801	-
LEVEL 04 - ROOF															
-	4000	6' - 0"	7' - 0"	A2	1	HM	HM	-	-	-	-	-	-	214	

DOOR TYPES

DOOR NOTES

1. CONTRACTORS TO USE THE ARCHITECT'S FLOOR PLAN DESIGNATION DOOR NUMBER IN ADDITION TO THE ROOM NUMBER ON ALL SHOP DRAWING SCHEDULE SUBMITTALS.



James R. Childers Architect, Inc.
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PROFESSIONAL SEAL:

CONSULTANT LOGO:

CLIENT:

COLLEGE OF Osteopathic Medicine AT THE CHEROKEE NATION

TAHLEQUAH, OKLAHOMA

KEY PLAN:

PROJECT PHASE:

95% CONSTRUCTION DOCUMENTS

REVISIONS		
#	DATE	DESCRIPTION

DATE:	JOB NUMBER:
07-26-19	17-13

SHEET NUMBER:

A6.00

DOOR SCHEDULE / INFORMATION

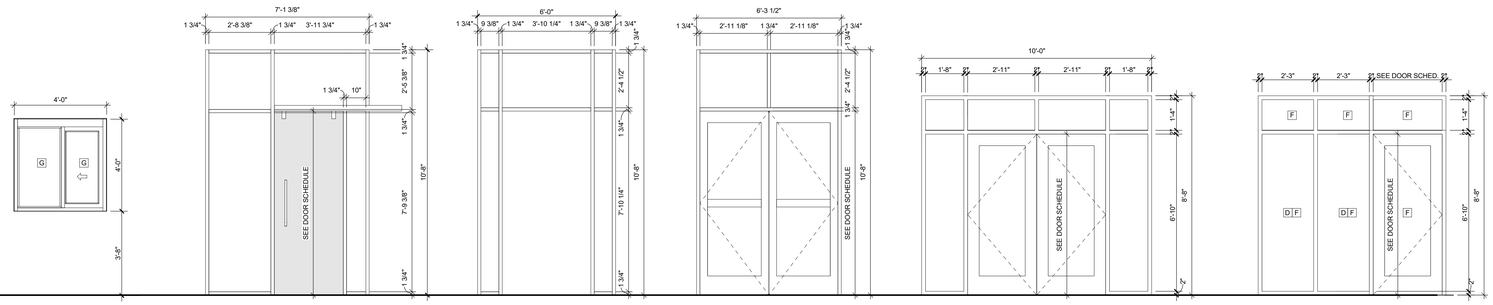
LEGEND

HM - HOLLOW METAL FRAMES
SF - INTERIOR STOREFRONT

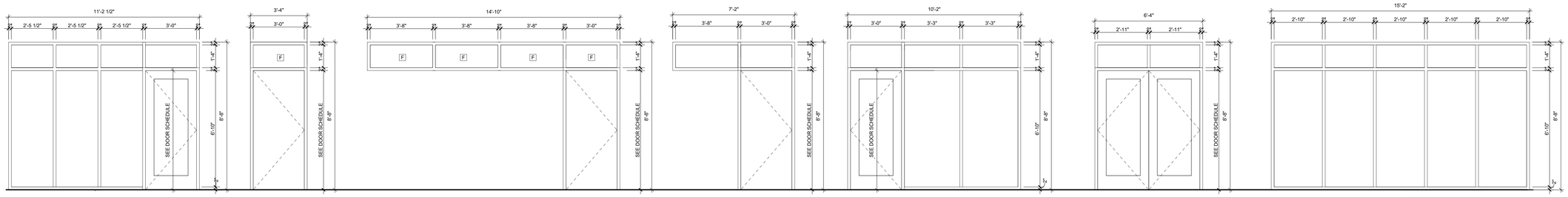
GLAZING SCHEDULE

ALL GLAZING TO BE 1/4" CLEAR TEMPERED, U.N.O

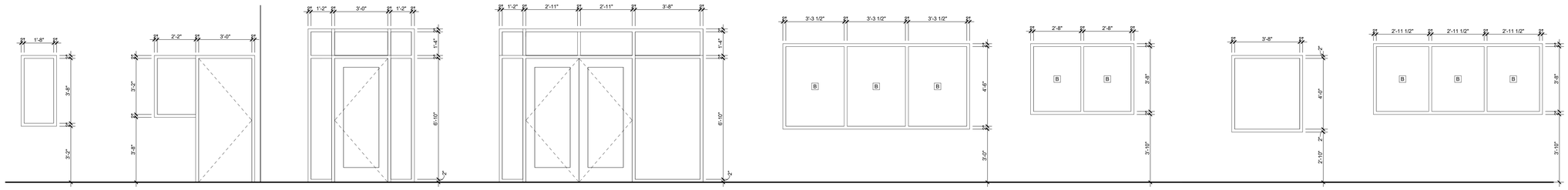
A. CLEAR
B. MIRRORED
C. FROSTED GLASS
D. INTERGRAL BLINDS
E. 1-5/16" INSULATING / LAMINATED
F. 1" INSULATING
G. TINTED



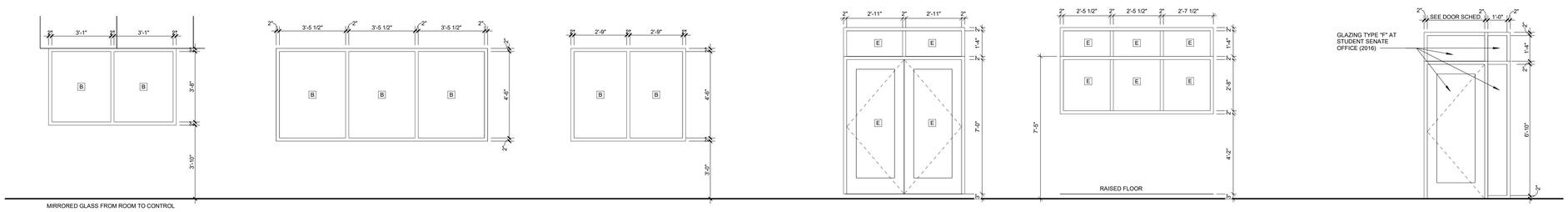
SW-02 3/8" = 1'-0"
SF-03 3/8" = 1'-0"
SF-02 3/8" = 1'-0"
SF-01 3/8" = 1'-0"
HM-23 3/8" = 1'-0"
HM-22 3/8" = 1'-0"



HM-21 3/8" = 1'-0"
HM-20 3/8" = 1'-0"
HM-19 3/8" = 1'-0"
HM-18 3/8" = 1'-0"
HM-17 3/8" = 1'-0"
HM-16 3/8" = 1'-0"
HM-15 3/8" = 1'-0"



HM-14 3/8" = 1'-0"
HM-13 3/8" = 1'-0"
HM-12 3/8" = 1'-0"
HM-11 3/8" = 1'-0"
HM-10 3/8" = 1'-0"
HM-09 3/8" = 1'-0"
HM-08 3/8" = 1'-0"
HM-07 3/8" = 1'-0"



MIRRORED GLASS FROM ROOM TO CONTROL

HM-06 3/8" = 1'-0"
HM-05 3/8" = 1'-0"
HM-04 3/8" = 1'-0"
HM-03 3/8" = 1'-0"
HM-02 3/8" = 1'-0"
HM-01 3/8" = 1'-0"

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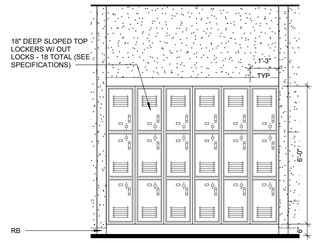
REVISIONS

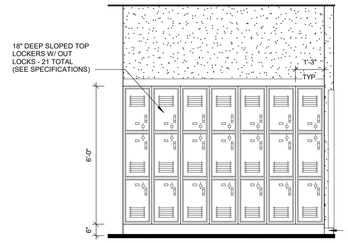
#	DATE	DESCRIPTION

DATE: 07-26-19
JOB NUMBER: 17-13
SHEET NUMBER: A6.01

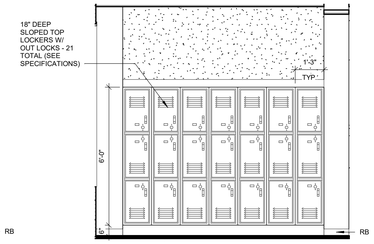
HOLLOW METAL FRAME / INTERIOR STOREFRONT ELEVATIONS



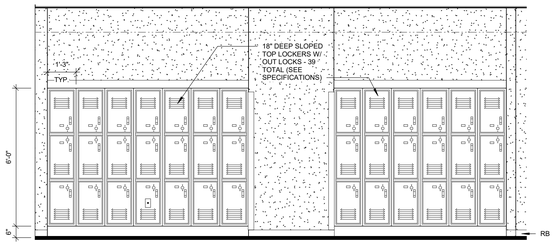
15 BASEMENT LOCKER ELEV - EAST 2
3/8" = 1'-0"



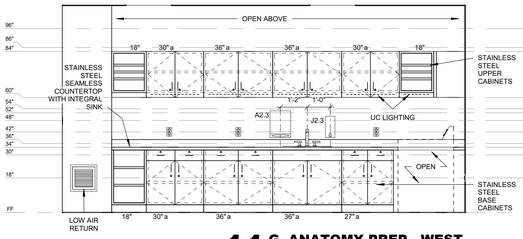
14 BASEMENT LOCKER ELEV - WEST
3/8" = 1'-0"



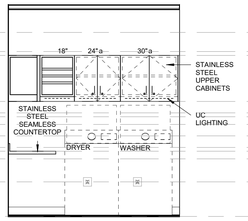
13 BASEMENT LOCKER ELEV - NORTH
3/8" = 1'-0"



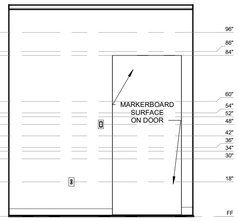
12 BASEMENT LOCKER ELEV - EAST 1
3/8" = 1'-0"



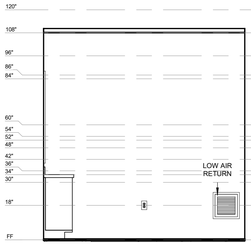
11 G. ANATOMY PREP - WEST
3/8" = 1'-0"



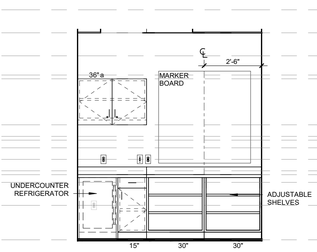
10 G. ANATOMY PREP - NORTH
3/8" = 1'-0"



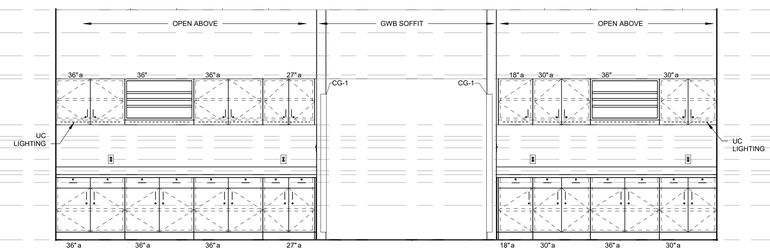
09 ANATOMY WORKROOM - SOUTH
3/8" = 1'-0"



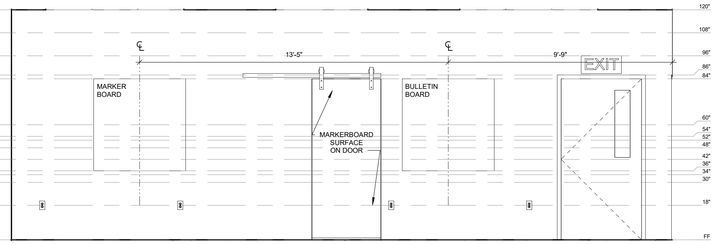
08 ANATOMY WORKROOM - EAST
3/8" = 1'-0"



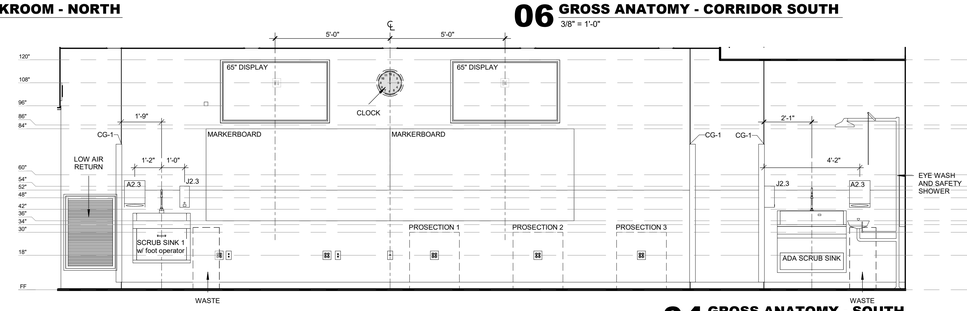
07 ANATOMY WORKROOM - NORTH
3/8" = 1'-0"



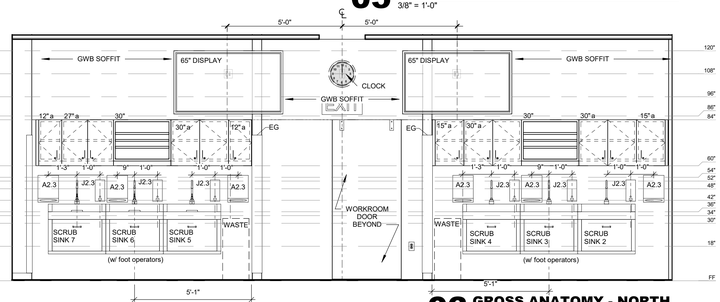
06 GROSS ANATOMY - CORRIDOR SOUTH
3/8" = 1'-0"



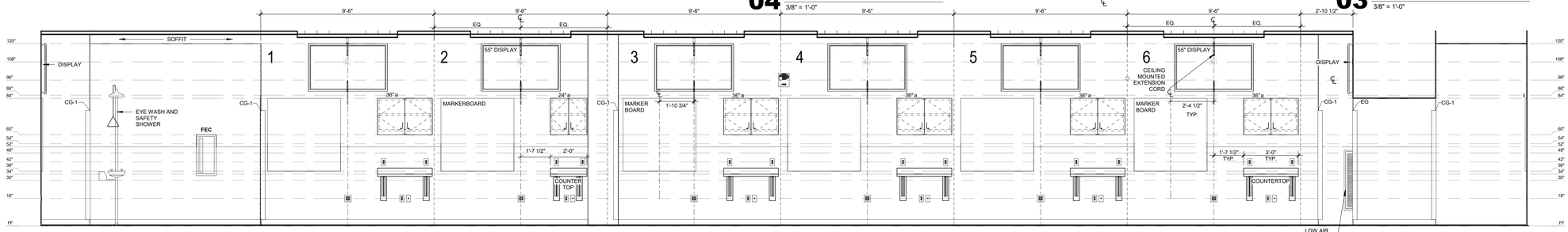
05 GROSS ANATOMY - NORTH CORRIDOR
3/8" = 1'-0"



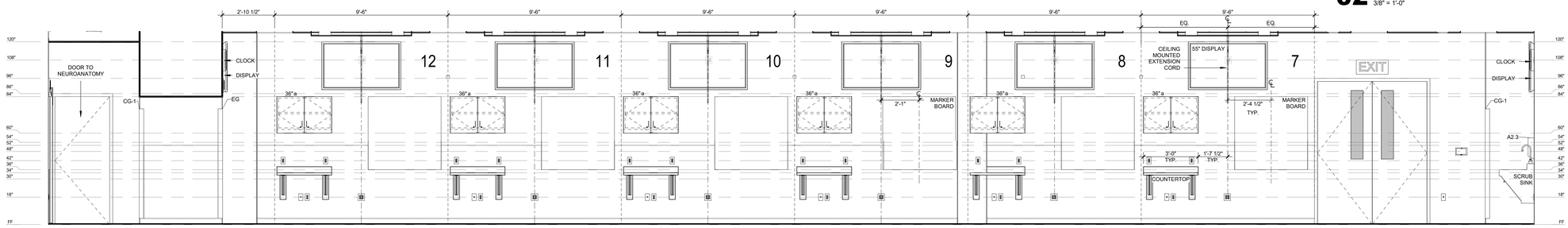
04 GROSS ANATOMY - SOUTH
3/8" = 1'-0"



03 GROSS ANATOMY - NORTH
3/8" = 1'-0"



02 GROSS ANATOMY - WEST
3/8" = 1'-0"



01 GROSS ANATOMY - EAST
3/8" = 1'-0"

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REVISIONS		
#	DATE	DESCRIPTION

DATE:	JOB NUMBER:
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A7.11

INTERIOR ELEVATIONS - GROSS ANATOMY

10 CADAVER STORAGE - EAST
3/8" = 1'-0"

09 CADAVER STORAGE - NORTH
3/8" = 1'-0"

08 NEUROANATOMY - CORRIDOR SOUTH
3/8" = 1'-0"

07 NEURO PREP - SOUTH
3/8" = 1'-0"

06 NEURO PREP - EAST
3/8" = 1'-0"

05 NEUROANATOMY - CORRIDOR NORTH
3/8" = 1'-0"

04 NEUROANATOMY - WEST
3/8" = 1'-0"

03 NEUROANATOMY - NORTH
3/8" = 1'-0"

02 NEUROANATOMY - EAST
3/8" = 1'-0"

01 NEUROANATOMY - SOUTH
3/8" = 1'-0"

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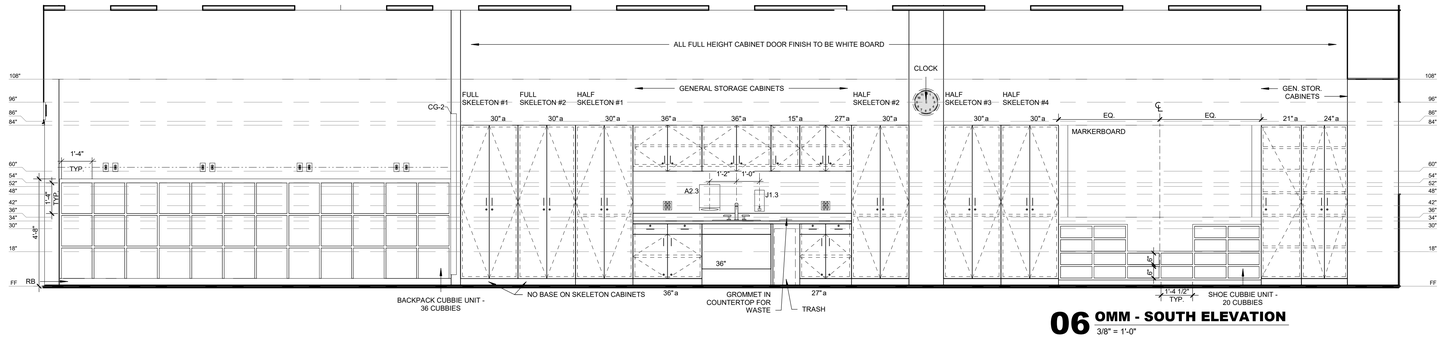
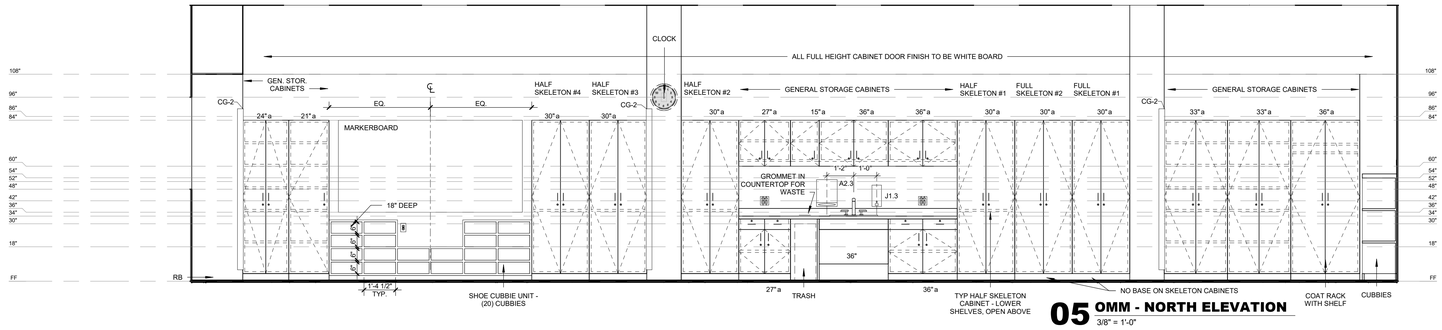
SHEET NUMBER: A7.12

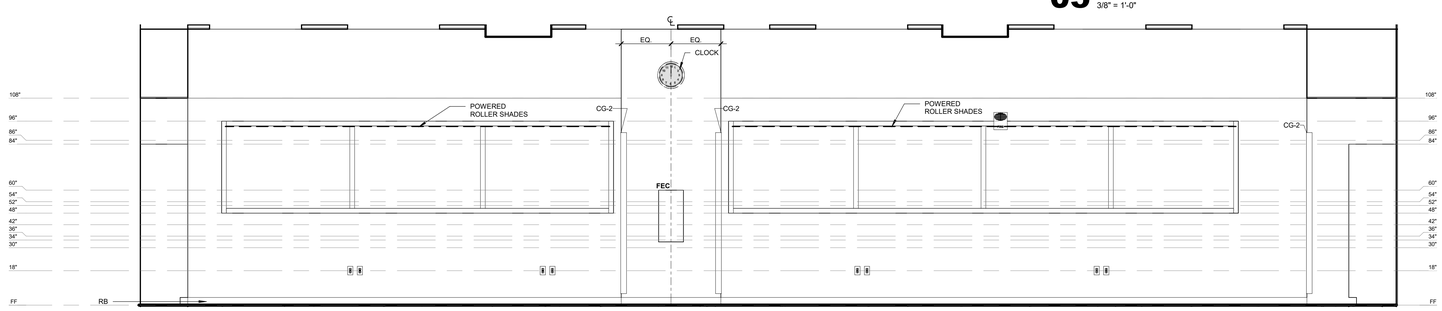
INTERIOR ELEVATIONS - NEUROANATOMY



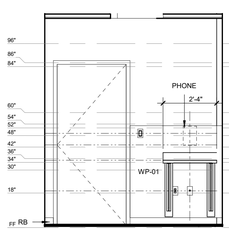
06 OMM - SOUTH ELEVATION
3/8" = 1'-0"



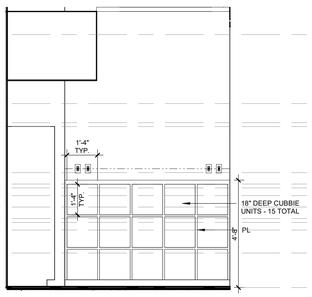
05 OMM - NORTH ELEVATION
3/8" = 1'-0"



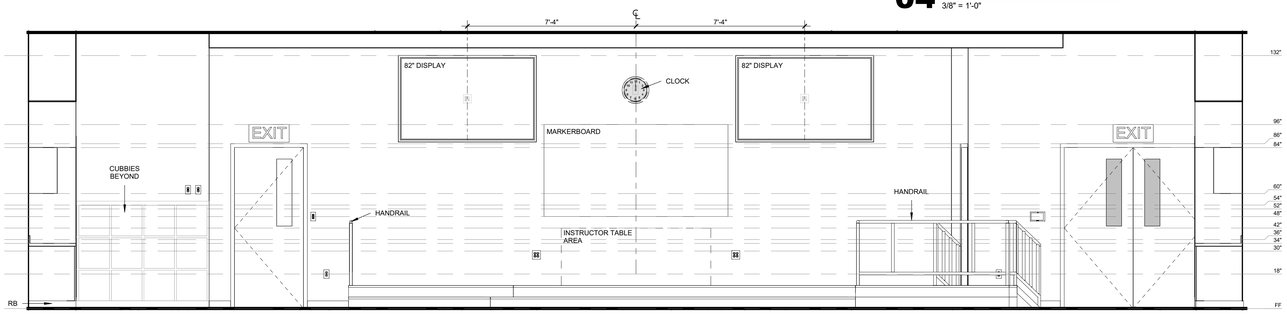
04 OMM - WEST ELEVATION
3/8" = 1'-0"



03 OMM STORAGE - SOUTH ELEVATION
3/8" = 1'-0"



02 OMM - EAST CUBBIE ELEVATION
3/8" = 1'-0"



01 OMM - EAST ELEVATION (Instructor Wall)
3/8" = 1'-0"

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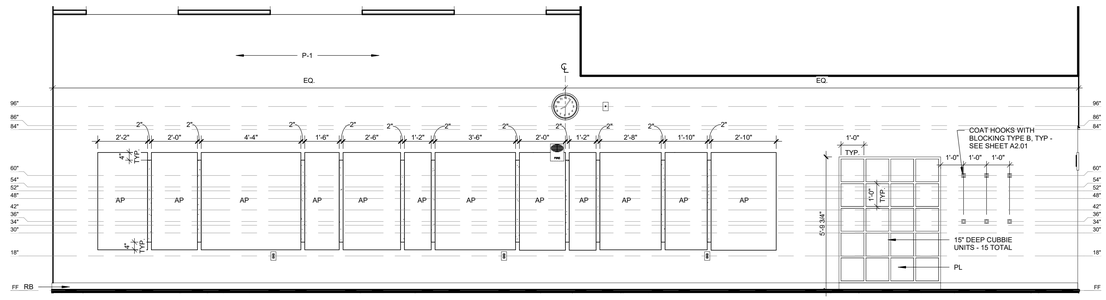
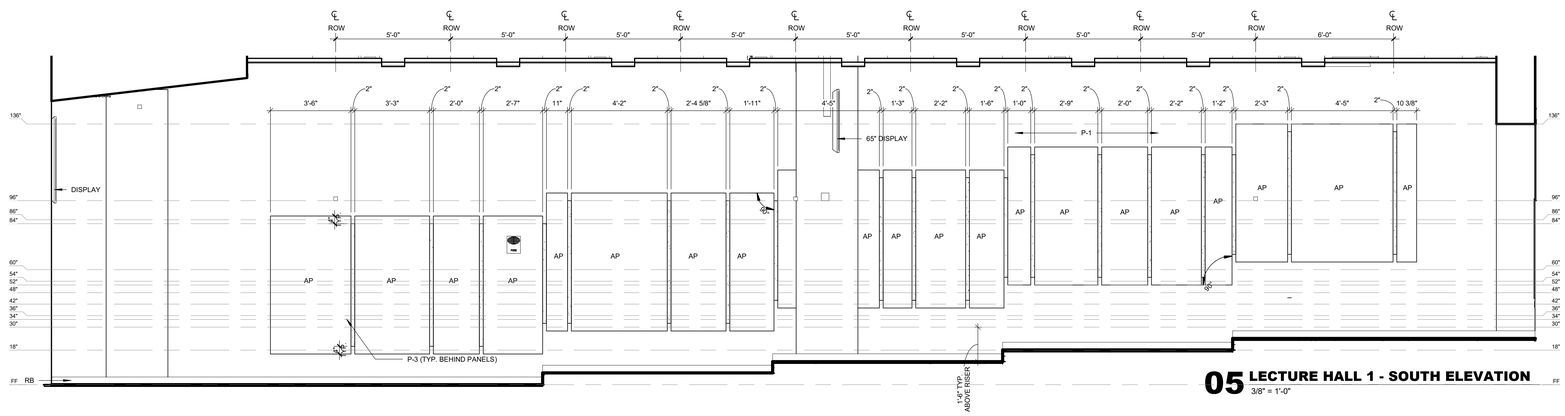
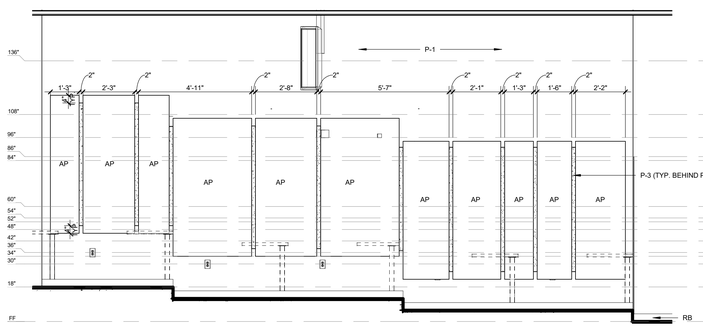
INTERIOR ELEVATIONS - OMM



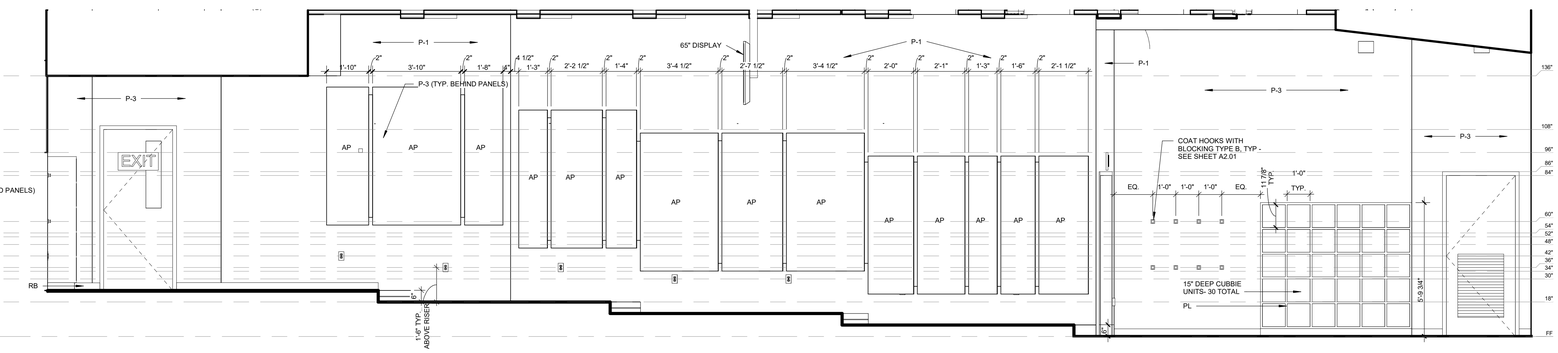
06 LECTURE HALL 2 - WEST ELEVATION
3/8" = 1'-0"



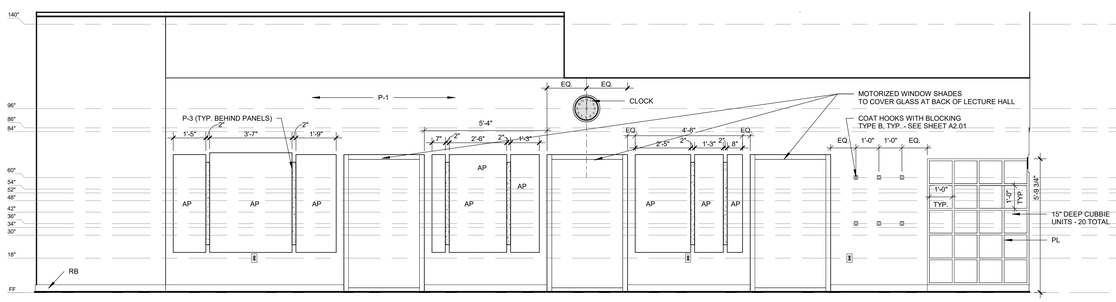
05 LECTURE HALL 1 - SOUTH ELEVATION
3/8" = 1'-0"



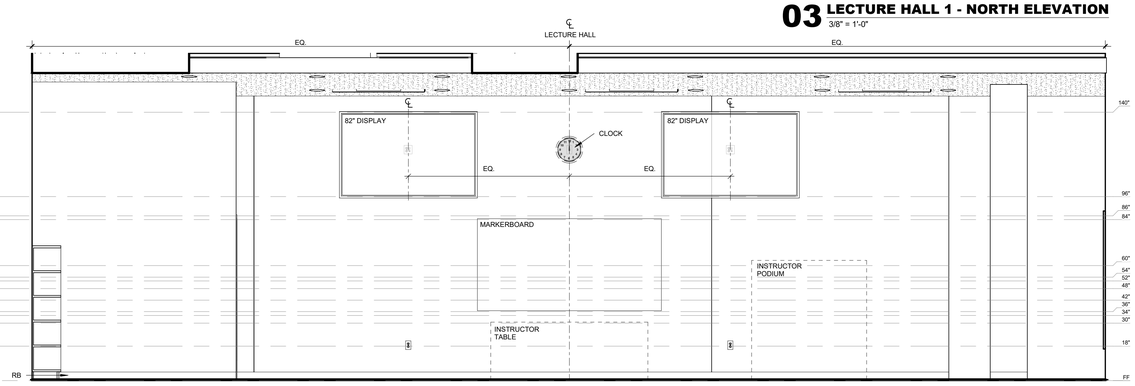
04 LECTURE HALL 1 - NORTH ANGLE
3/8" = 1'-0"



03 LECTURE HALL 1 - NORTH ELEVATION
3/8" = 1'-0"



02 LECTURE HALL 1 - WEST ELEVATION
3/8" = 1'-0"



01 LECTURE HALL - TYPICAL EAST ELEVATION
3/8" = 1'-0"

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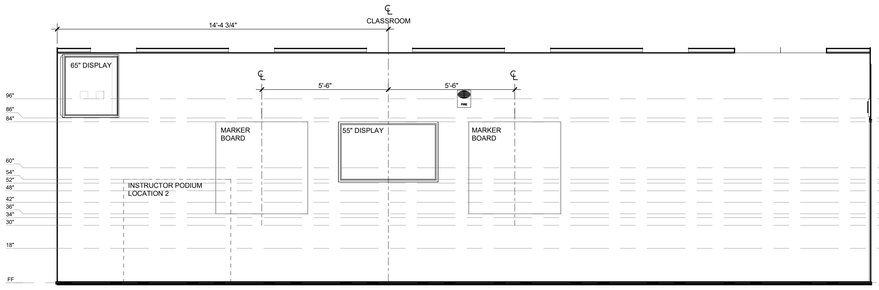
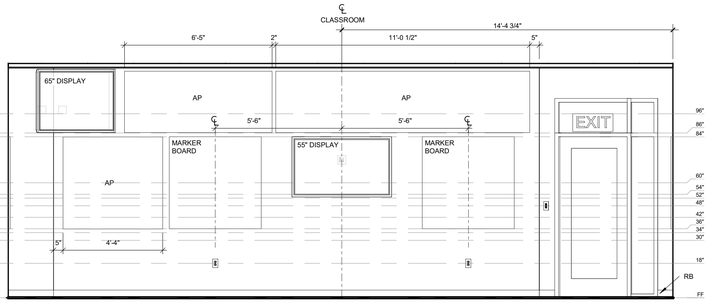
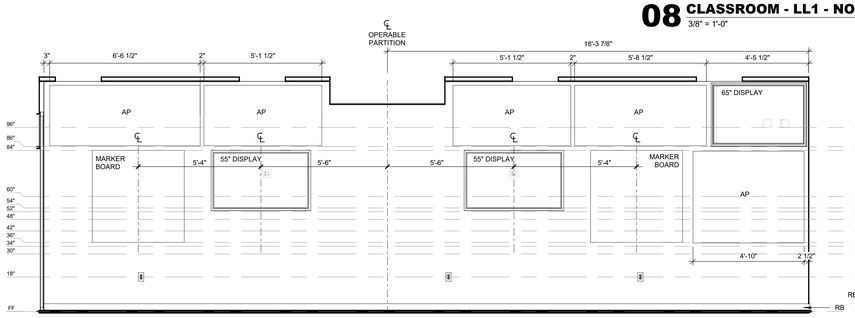
INTERIOR ELEVATIONS - LECTURE HALL 1&2



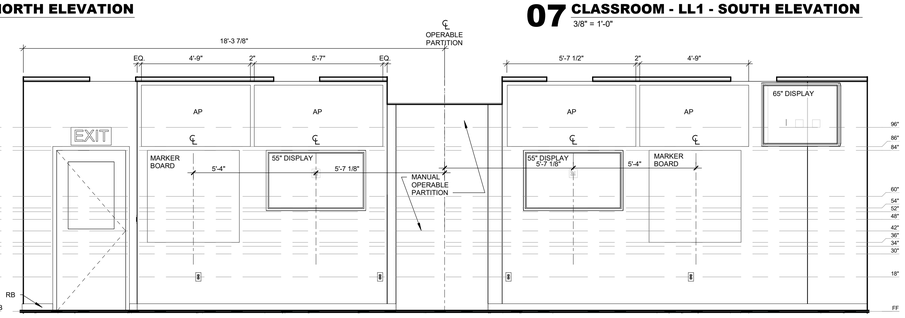
08 CLASSROOM - LL1 - NORTH ELEVATION
3/8" = 1'-0"



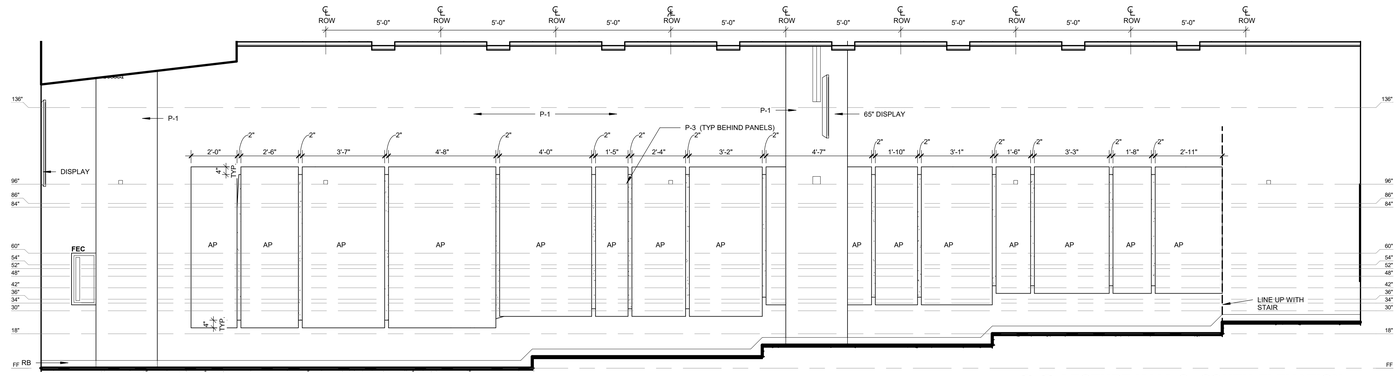
07 CLASSROOM - LL1 - SOUTH ELEVATION
3/8" = 1'-0"



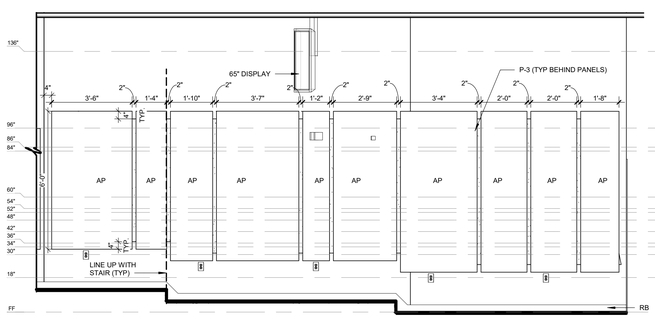
06 CLASSROOM - LL1 - WEST ELEVATION
3/8" = 1'-0"



05 CLASSROOM - LL1 - EAST ELEVATION
3/8" = 1'-0"



03 LECTURE HALL 2 - SOUTH ELEVATION
3/8" = 1'-0"



02 LECTURE HALL 2 - NORTH ANGLE
3/8" = 1'-0"

01 LECTURE HALL 2 - NORTH ELEVATION
3/8" = 1'-0"

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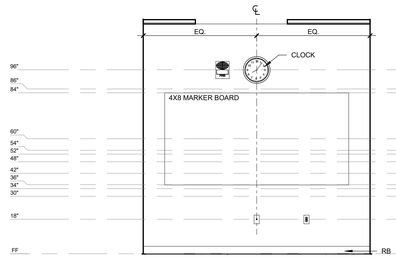
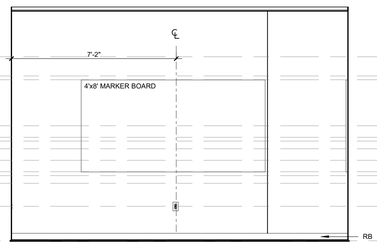
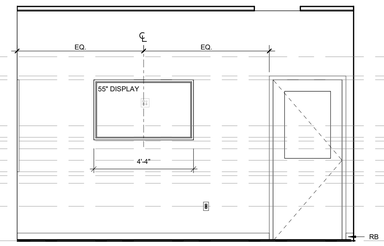
INTERIOR ELEVATIONS - LECTURE HALL 2 & LEARNING LAB 1



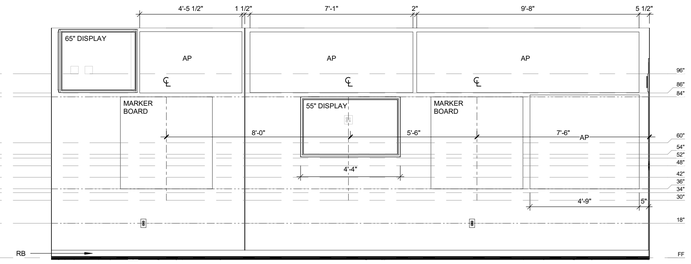
14 GROUP STUDY 4 - WEST ELEV
3/8" = 1'-0"



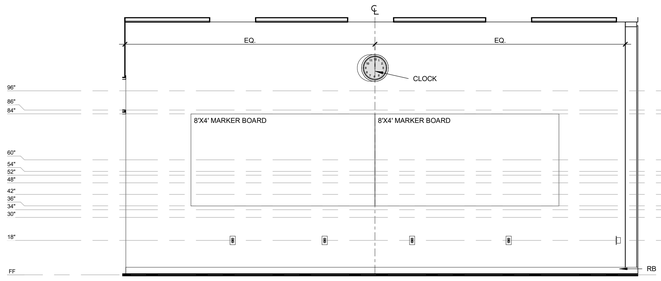
13 GROUP STUDY 4 - SOUTH ELEVATION
3/8" = 1'-0"



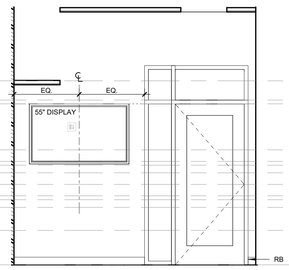
12 GROUP STUDY 4 - NORTH ELEVATION
3/8" = 1'-0"



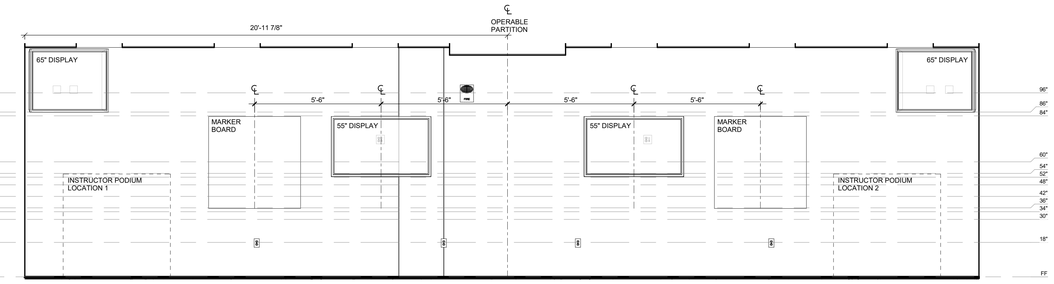
11 CLASSROOM LL4 - NORTH ELEVATION
3/8" = 1'-0"



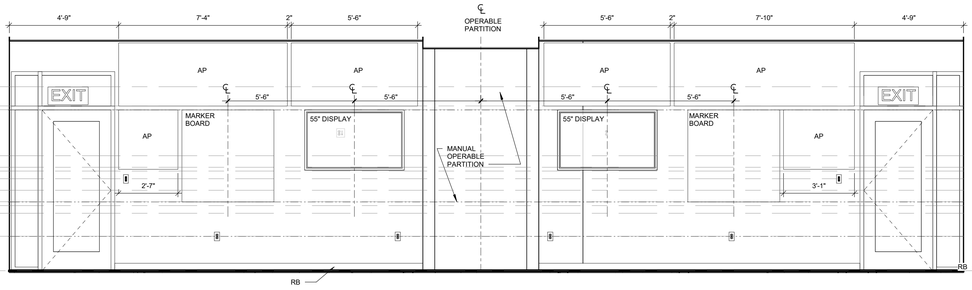
10 GROUP STUDY 1 - WEST ELEVATION
3/8" = 1'-0"



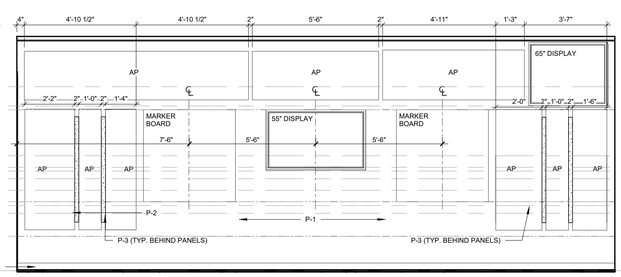
09 GROUP STUDY 1 - NORTH ELEVATION
3/8" = 1'-0"



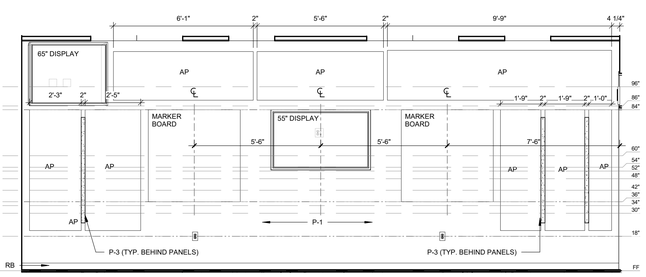
08 CLASSROOM LL3 - WEST ELEVATION
3/8" = 1'-0"



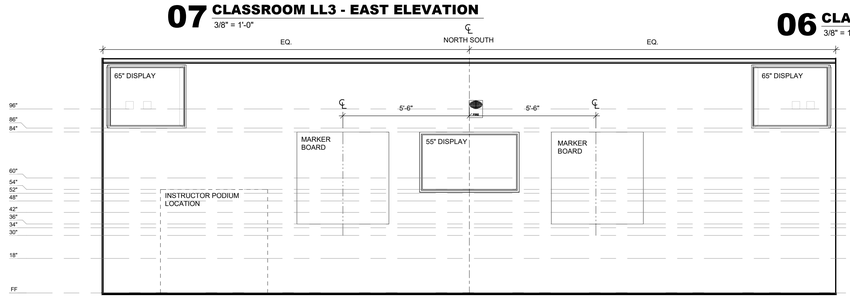
07 CLASSROOM LL3 - EAST ELEVATION
3/8" = 1'-0"



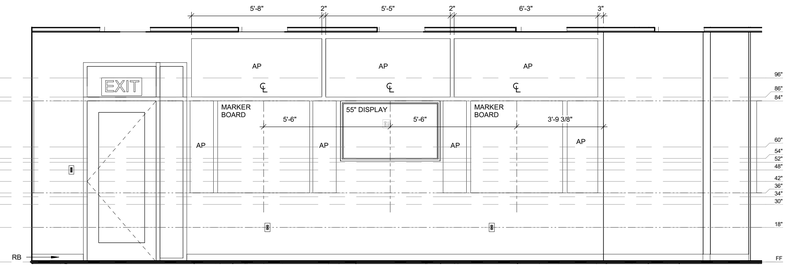
06 CLASSROOM LL3 - SOUTH ELEVATION
3/8" = 1'-0"



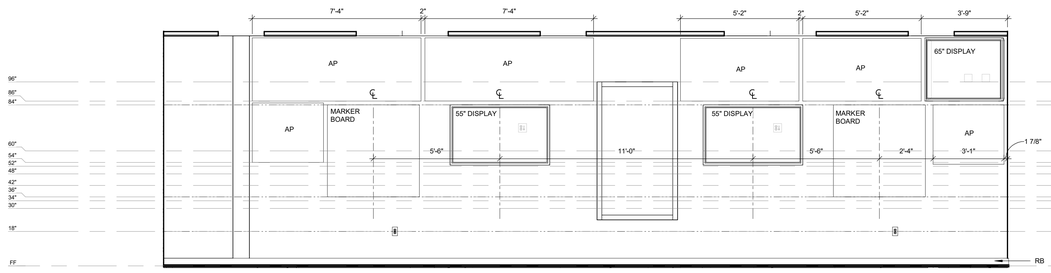
05 CLASSROOM LL3 - NORTH ELEVATION
3/8" = 1'-0"



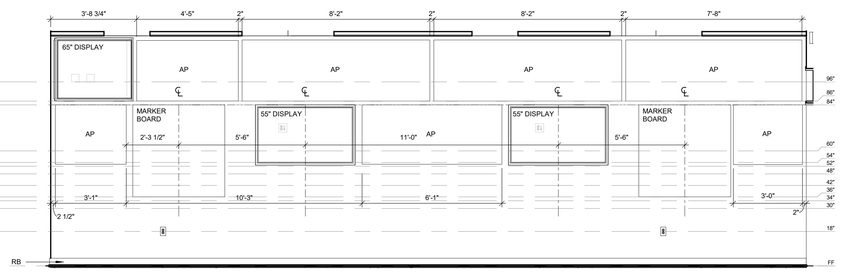
04 CLASSROOM LL2 - NORTH ELEVATION
3/8" = 1'-0"



03 CLASSROOM LL2 - SOUTH ELEVATION
3/8" = 1'-0"



02 CLASSROOM LL2 - WEST ELEVATION
3/8" = 1'-0"



01 CLASSROOM LL2 - EAST ELEVATION
3/8" = 1'-0"

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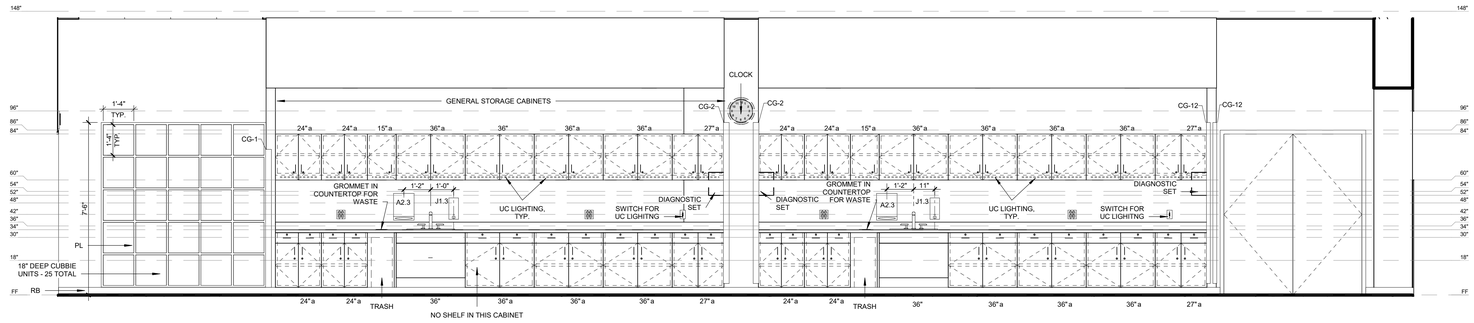
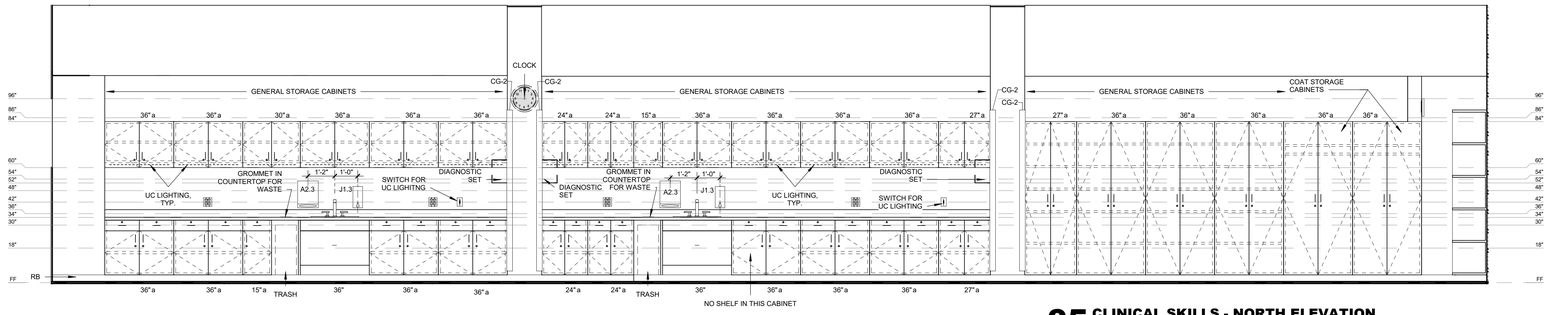
A7.16

INTERIOR ELEVATIONS - LEARNING LABS & GROUP STUDY RMS



06 CLINICAL SKILLS - SOUTH ELEVATION
3/8" = 1'-0"



05 CLINICAL SKILLS - NORTH ELEVATION
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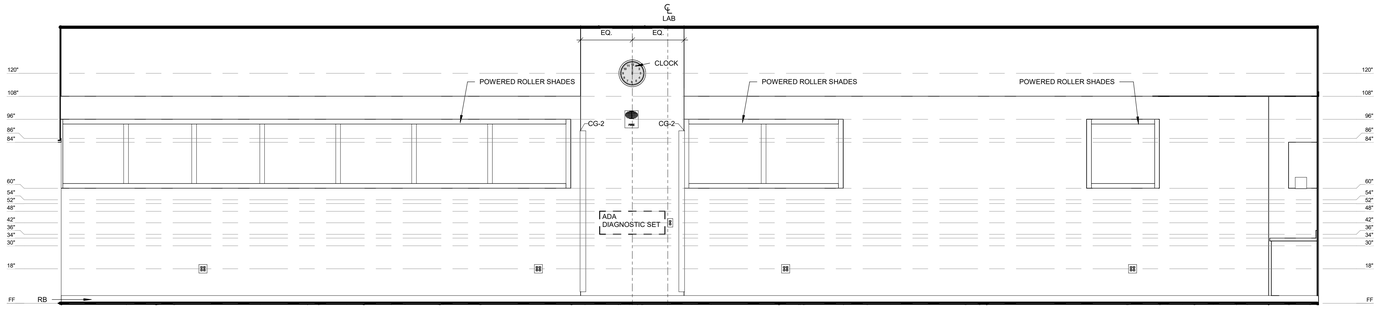

04 CLINICAL SKILLS - WEST ELEVATION
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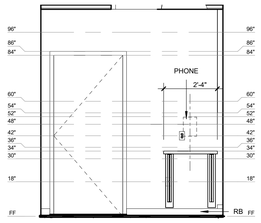

03 CS STORAGE - SOUTH ELEV.
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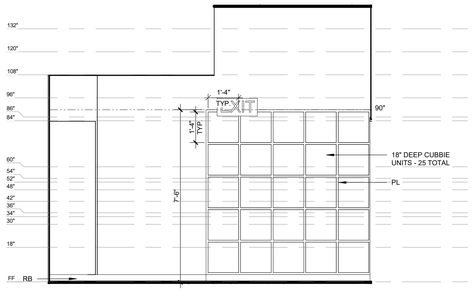

02 CLINICAL SKILLS - EAST CUBBIE AREA ELEVATION
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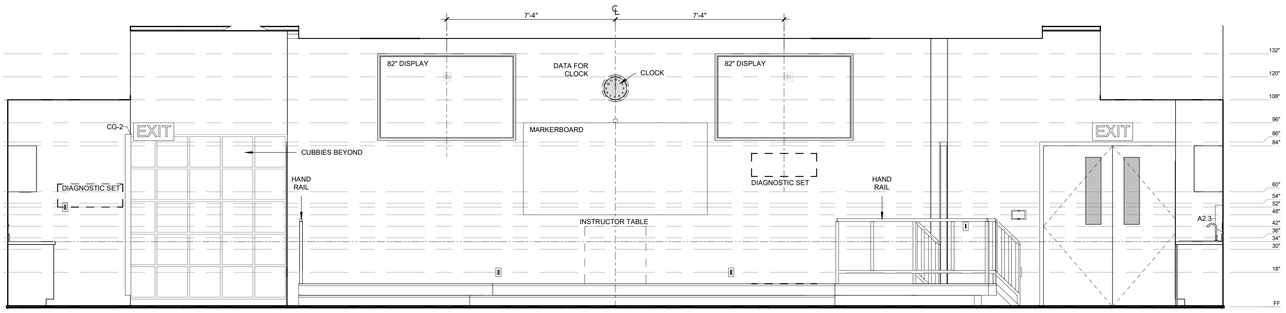

01 CLINICAL SKILLS - EAST ELEVATION (Instructor Wall)
3/8" = 1'-0"

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95% CONSTRUCTION DOCUMENTS

REVISIONS		
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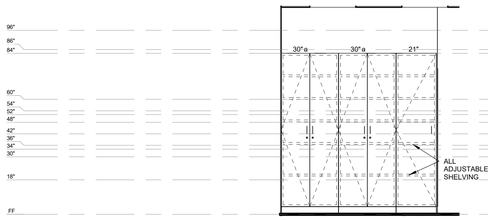
DATE: 07-26-19

JOB NUMBER: 17-13

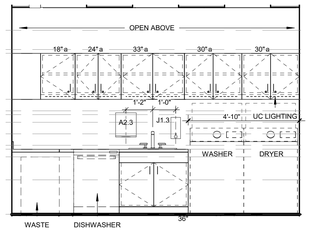
SHEET NUMBER:

A7.17

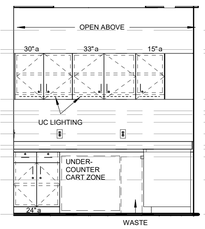
INTERIOR ELEVATIONS - CLINICAL SKILLS



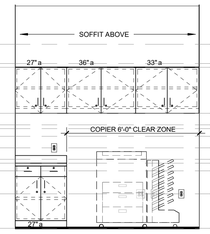
18 CE STORAGE - EAST
3/8" = 1'-0"



17 CE STORAGE - WEST
3/8" = 1'-0"



16 CE STORAGE - NORTH
3/8" = 1'-0"



15 CE COPIER ALCOVE - WEST
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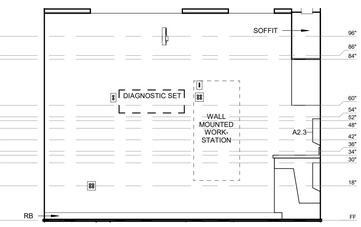
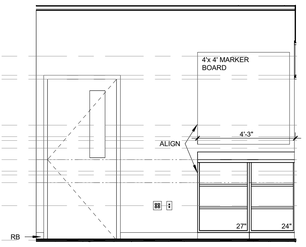
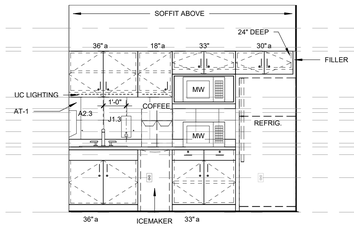


14 CLINICAL EXAM - TYP. EXAM SOUTH
3/8" = 1'-0"



13 CE PROCTOR AREA ELEVATION
3/8" = 1'-0"



12 SP WAITING & LOUNGE - NORTH
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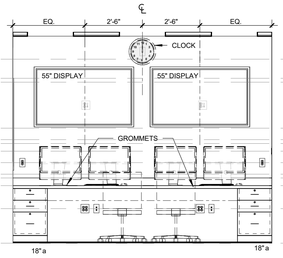

11 CE CONTROL - WEST ELEV.
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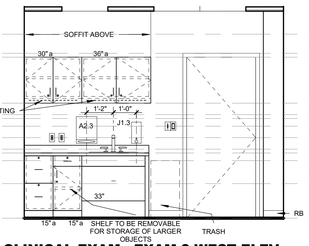
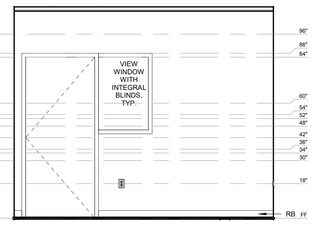


10 CLINICAL EXAM - EXAM 9 WEST ELEV.
3/8" = 1'-0"



09 CLINICAL EXAM - TYP. EXAM EAST
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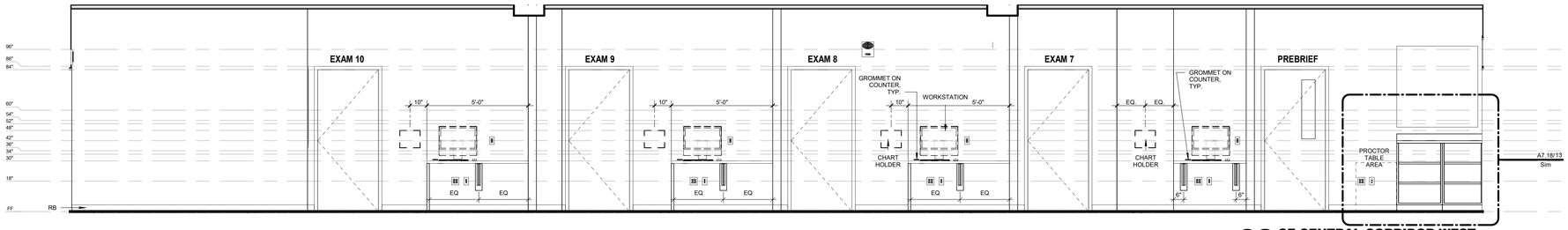

08 CE CENTRAL CORRIDOR WEST
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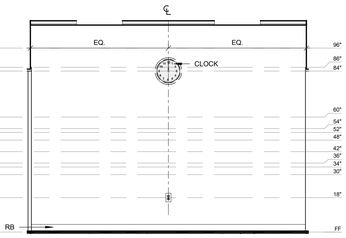

07 CLINICAL EXAM - TYP. EXAM NORTH
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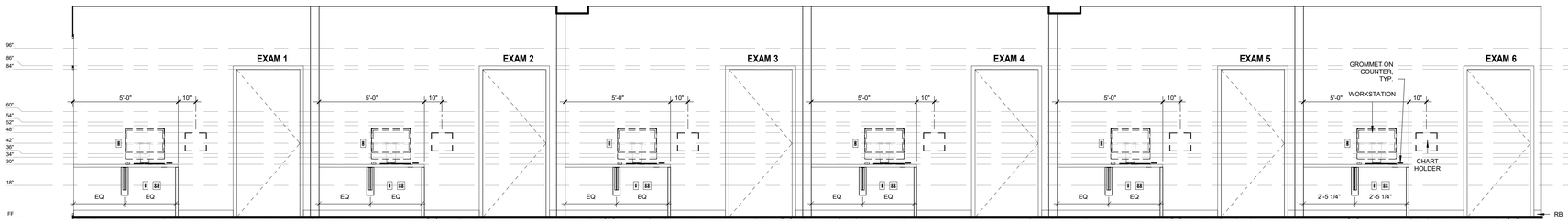
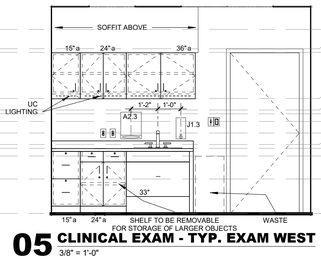
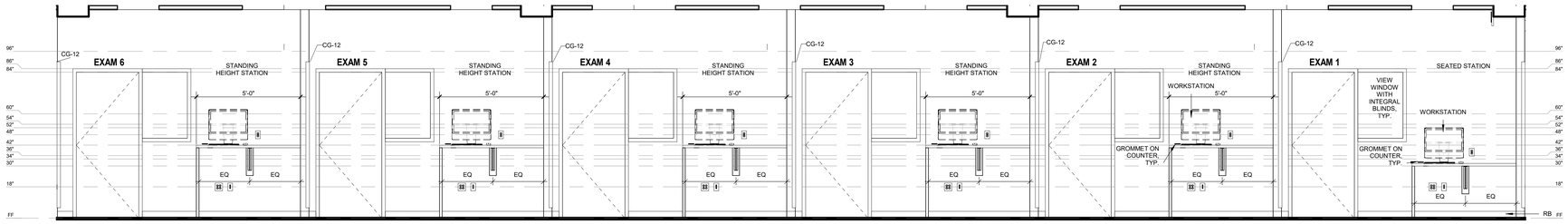


06 CLINICAL EXAM - WEST ELEVATION
3/8" = 1'-0"



05 CLINICAL EXAM - TYP. EXAM WEST
3/8" = 1'-0"



04 CE PERIMETER CORRIDOR 2 - EAST
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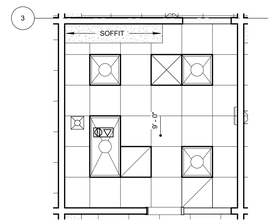
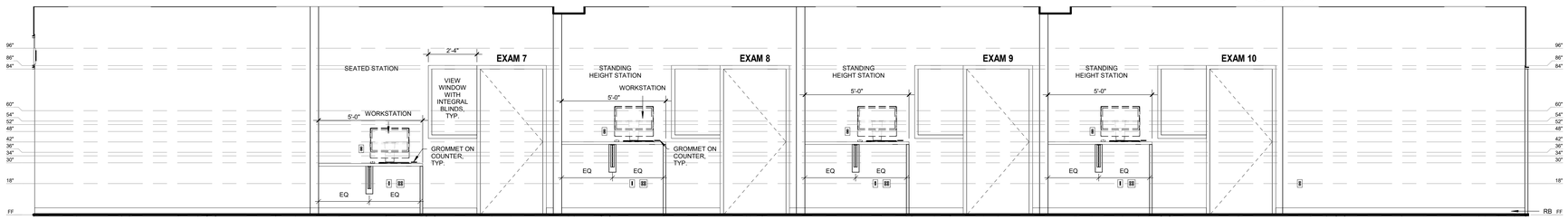


03 TYPICAL EXAM ROOM RCP
1/4" = 1'-0"



02 CE PERIMETER CORR 1 - WEST
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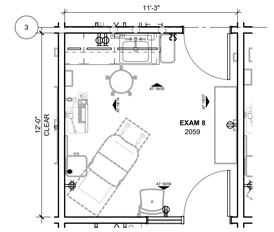

01 TYPICAL EXAM ROOM PLAN
1/4" = 1'-0"

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07-26-19	17-13

SHEET NUMBER:
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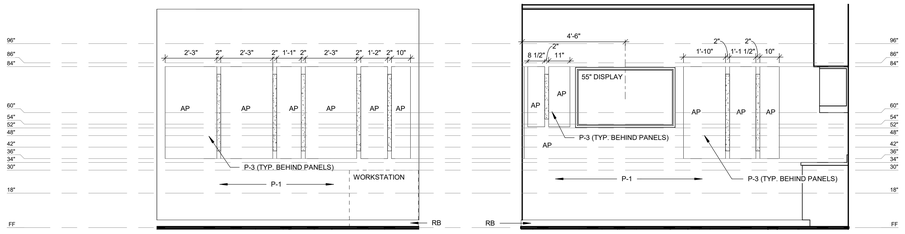
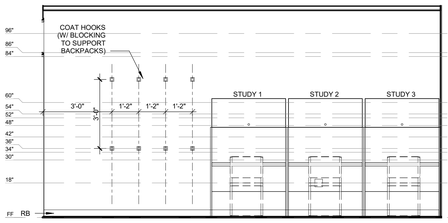
INTERIOR ELEVATIONS - CLINICAL EXAM



10 STUDENT SENATE - SOUTH ELEVATION
3/8" = 1'-0"

09 STUDENT SENATE - NORTH ELEVATION
3/8" = 1'-0"



08 STUDY CARREL 6 - EAST ELEV.
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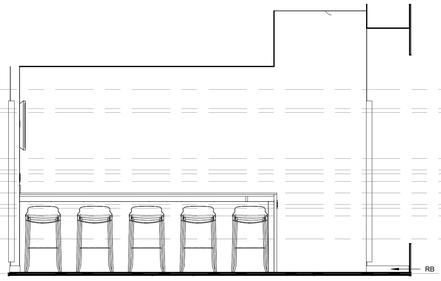

07 STUDENT KITCHENETTE COFFEE BAR - NORTH
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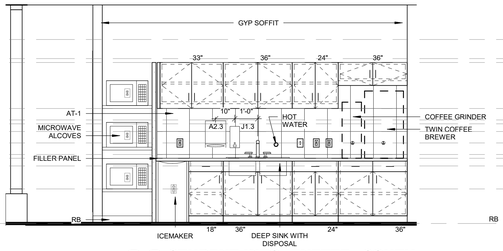
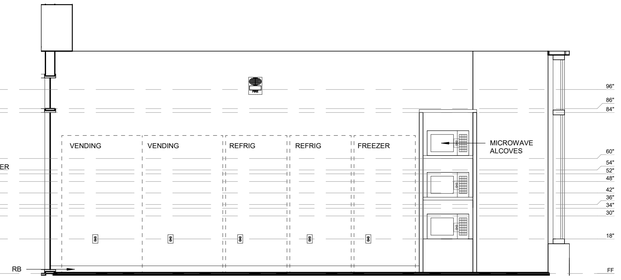
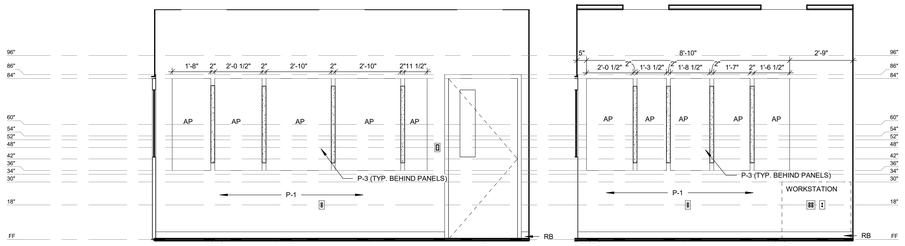


06 STUDENT KITCHENETTE - SOUTH
3/8" = 1'-0"

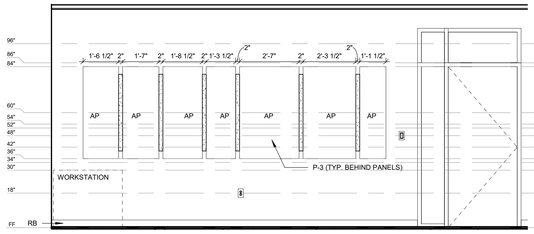


05 STUDENT KITCHENETTE - NORTH
3/8" = 1'-0"

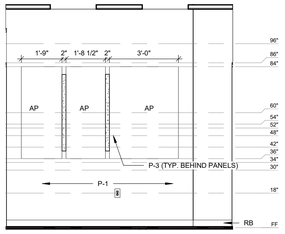


04 PREBRIEF - WEST ELEVATION
3/8" = 1'-0"

03 PREBRIEF - NORTH ELEVATION
3/8" = 1'-0"



02 DEBRIEF - WEST ELEVATION
3/8" = 1'-0"



01 DEBRIEF - NORTH ELEVATION
3/8" = 1'-0"

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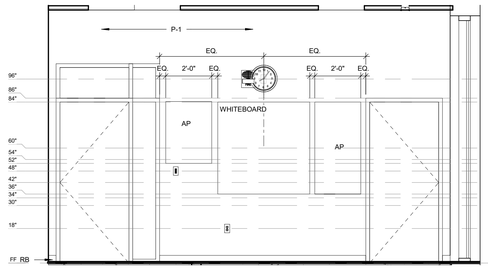
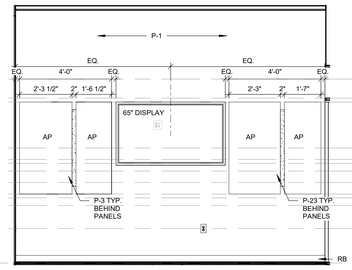
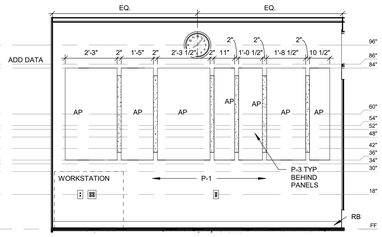
INTERIOR ELEVATIONS - CE PREBRIEF, DEBRIEF, & STUDENT SPACES



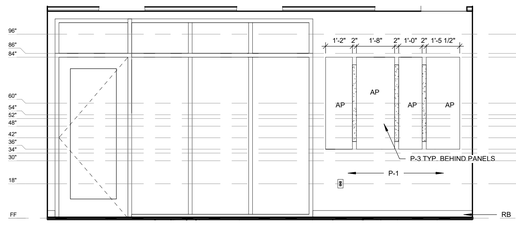
12 EXEC CONF (LEV 3) - EAST ELEV
3/8" = 1'-0"



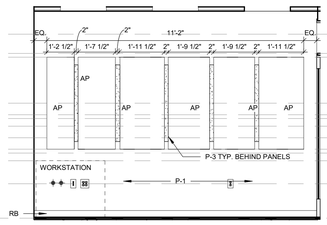
11 EXEC CONF (LEV 3) - NORTH ELEV
3/8" = 1'-0"



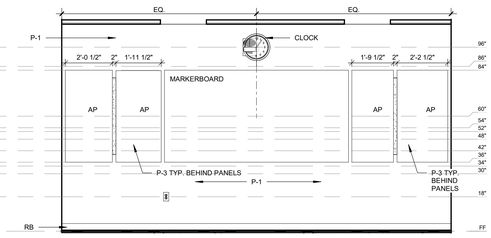
10 FAC CONF 3 (LEV 3) - WEST ELEV
3/8" = 1'-0"



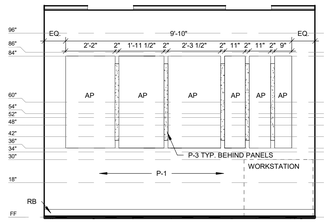
09 FAC CONF 3 (LEV 3) - NORTH ELEV
3/8" = 1'-0"



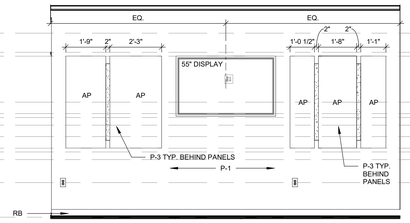
08 SS CONF (LEV 3) - SOUTH ELEV
3/8" = 1'-0"



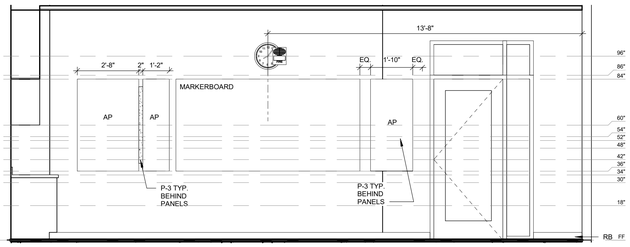
07 SS CONF (LEV 3) - EAST ELEV
3/8" = 1'-0"



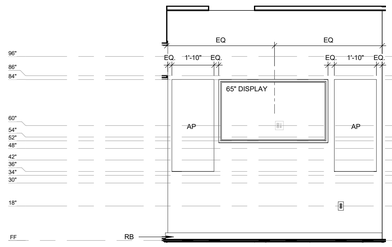
06 FAC CONF 1 (LEV 3) - NORTH ELEV
3/8" = 1'-0"



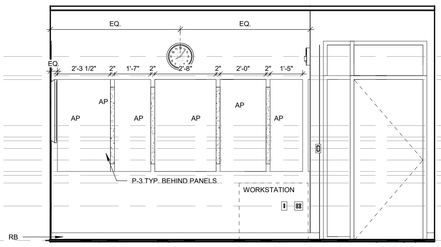
05 FAC CONF 1 (LEV 3) - WEST ELEV
3/8" = 1'-0"



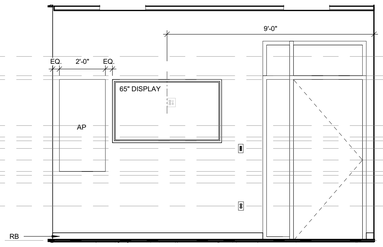
04 FAC CONF 2 (LEV 3) - WEST ELEV
3/8" = 1'-0"



03 FAC CONF 2 (LEV 3) - NORTH ELEV
3/8" = 1'-0"



02 RH & CSI CONF (LEV 3) - WEST ELEV
3/8" = 1'-0"



01 RH & CSI CONF (LEV 3) - SOUTH ELEV
3/8" = 1'-0"

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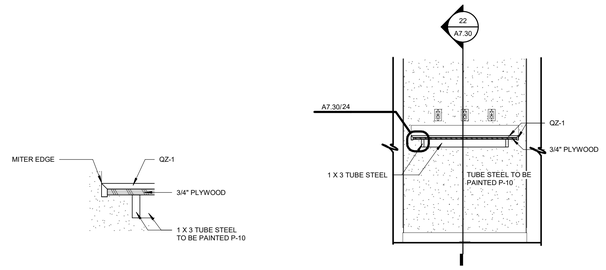
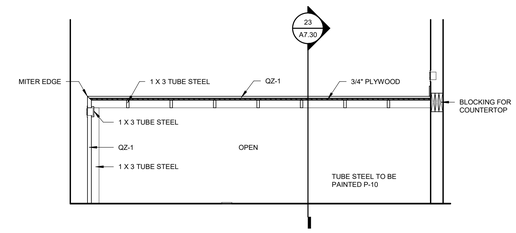
A7.20

INTERIOR ELEVATIONS - LEVEL 3 CONFERENCE RMS

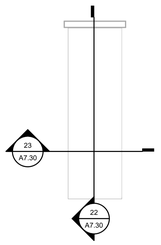


24 STUDENT LOUNGE DETAIL
1 1/2" = 1'-0"

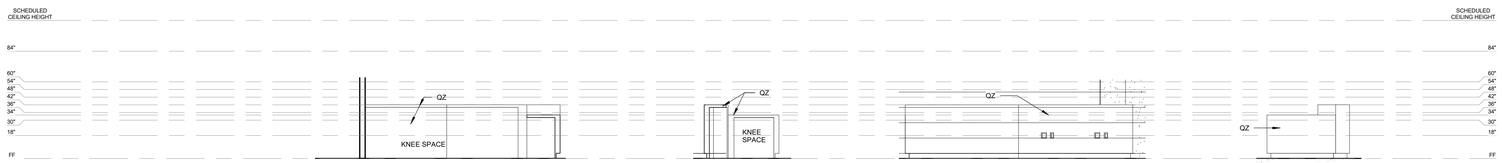
23 STUDENT LOUNGE MILLWORK B
1/2" = 1'-0"



22 STUDENT LOUNGE MILLWORK
1/2" = 1'-0"



21 STUDENT LOUNGE MWP
1/4" = 1'-0"

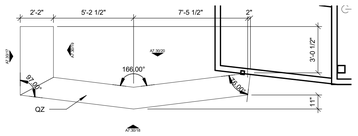


20 RECEPTION
1/4" = 1'-0"

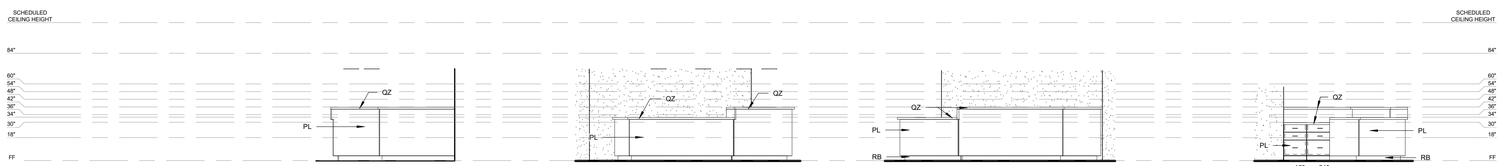
19 RECEPTION
1/4" = 1'-0"

18 RECEPTION
1/4" = 1'-0"

17 RECEPTION
1/4" = 1'-0"



RECEPTION/SECURITY
16 ENLARGED MWP
1/4" = 1'-0"

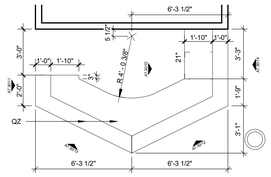


14 EXEC ADMIN 2
1/4" = 1'-0"

13 EXEC ADMIN 2
1/4" = 1'-0"

12 EXEC ADMIN 2
1/4" = 1'-0"

11 EXEC ADMIN 2
1/4" = 1'-0"



10 ENLARGED MILLWORK PLAN
1/4" = 1'-0"

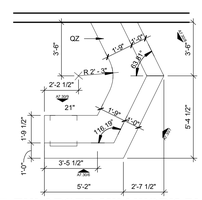
15 EXEC ADMIN 1
1/4" = 1'-0"

9 EXEC ADMIN 2
1/4" = 1'-0"

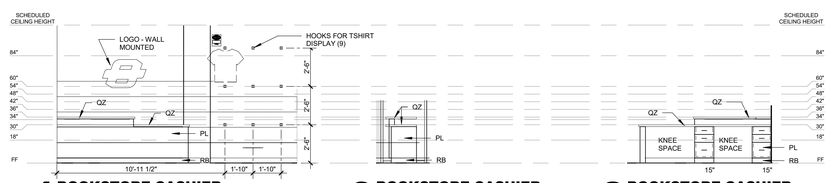
8 EXEC ADMIN 1
1/4" = 1'-0"

7 EXEC ADMIN 1
1/4" = 1'-0"

6 EXEC ADMIN 1
1/4" = 1'-0"



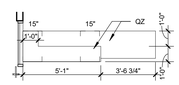
5 ENLARGED MILLWORK PLAN
1/4" = 1'-0"



4 BOOKSTORE CASHIER
1/4" = 1'-0"

3 BOOKSTORE CASHIER
1/4" = 1'-0"

2 BOOKSTORE CASHIER
1/4" = 1'-0"



1 ENLARGED MILLWORK PLAN
1/4" = 1'-0"

James R. Childers Architect, Inc.
45 South 4th Street
Fort Smith, AR 72901
479-783-2480
www.childersarchitect.com

PROFESSIONAL SEAL:

CONSULTANT LOGO:

CLIENT:

COLLEGE OF Osteopathic Medicine AT THE CHEROKEE NATION
TAHLEQUAH, OKLAHOMA

KEY PLAN:

PROJECT PHASE:
95% CONSTRUCTION DOCUMENTS

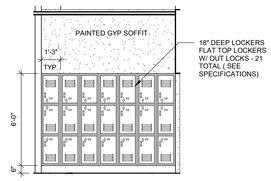
REVISIONS

#	DATE	DESCRIPTION

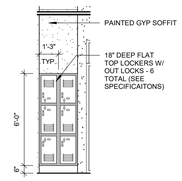
DATE:	JOB NUMBER:
07-26-19	17-13

SHEET NUMBER:
A7.30

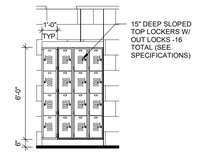
MILLWORK PLANS AND ELEVATIONS



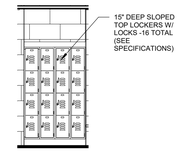
42 L2 LOCKER ALCOVE - WEST
1/4" = 1'-0"



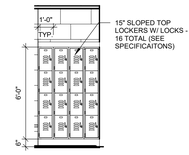
41 L2 LOCKER ALCOVE - NORTH
1/4" = 1'-0"



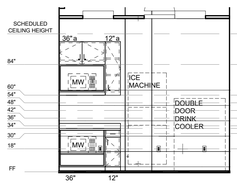
40 SP LOCKER ELEVATION
1/4" = 1'-0"



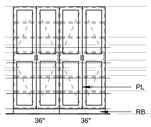
39 LOCKER RM 1 LOCKERS
1/4" = 1'-0"



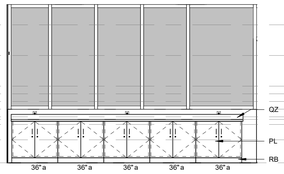
38 LOCKER RM 2 LOCKERS
1/4" = 1'-0"



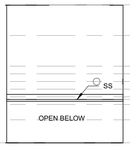
37 MRKTPLACE WEST
1/4" = 1'-0"



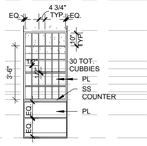
36 BOOKSTORE
1/4" = 1'-0"



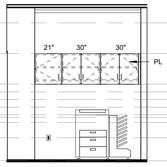
35 BOOKSTORE
1/4" = 1'-0"



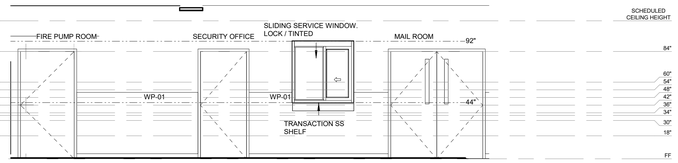
34 BOOKSTORE STORAGE
1/4" = 1'-0"



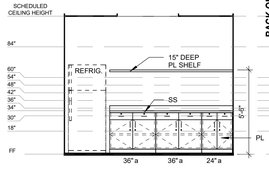
33 BOOKSTORE STORAGE
1/4" = 1'-0"



32 BSMT COPY ALCOVE
1/4" = 1'-0"

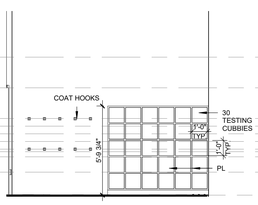


31 BASEMENT BOH CORRIDOR - SECURITY OFFICE
1/4" = 1'-0"

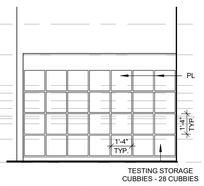


30 MAILROOM - WEST
1/4" = 1'-0"

BACK OF HOUSE



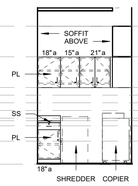
29 LH 2 - NORTH
1/4" = 1'-0"



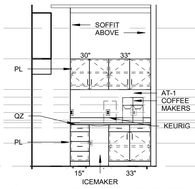
28 L3 CIRC N - WEST
1/4" = 1'-0"

LEVEL 3 PUBLIC

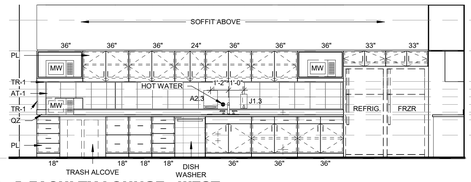
27 S FAC COPY ALCOVE - WEST
1/4" = 1'-0"



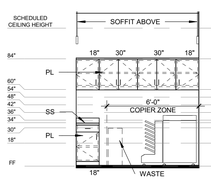
26 S FAC COPY ALCOVE - NORTH
1/4" = 1'-0"



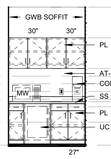
25 FACULTY LOUNGE - NORTH
1/4" = 1'-0"



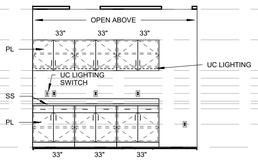
24 FACULTY LOUNGE - WEST
1/4" = 1'-0"



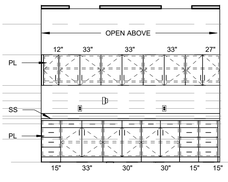
23 N FAC COPY ALCOVE - SOUTH
1/4" = 1'-0"



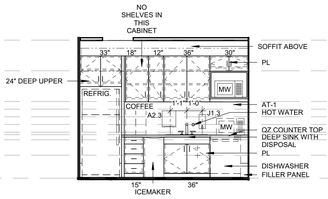
22 SS COFFEE ALCOVE - SOUTH
1/4" = 1'-0"



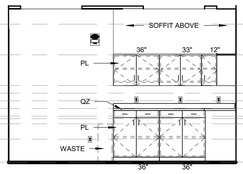
21 SS WKRM/COPY - EAST
1/4" = 1'-0"



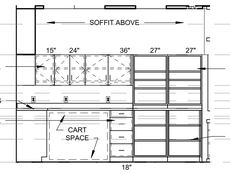
20 EXEC WKRM/COPY - WEST
1/4" = 1'-0"



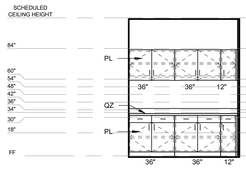
19 EXEC KITCHENETTE - EAST
1/4" = 1'-0"



18 FACULTY WORKROOM - WEST
1/4" = 1'-0"



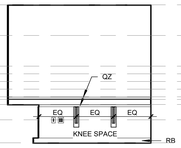
17 FACULTY WORKROOM - NORTH
1/4" = 1'-0"



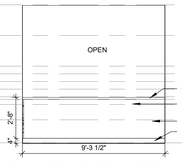
16 FACULTY CONF 2- SOUTH
1/4" = 1'-0"

FACULTY SPACES

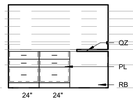
15 MW PERSONAL HEALTH
1/4" = 1'-0"



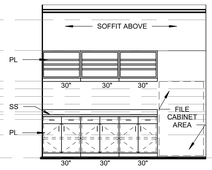
14 SS ADMIN ASST
1/4" = 1'-0"



13 SS ADMIN ASST
1/4" = 1'-0"

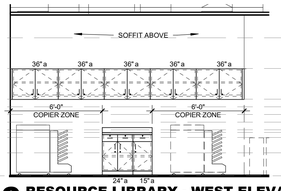


12 SS ADMIN ASST
1/4" = 1'-0"

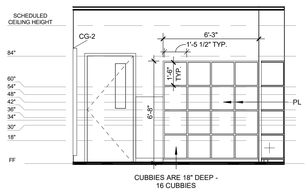


11 STUDENT SENATE OFFICE - EAST
1/4" = 1'-0"

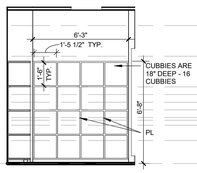
STUDENT SPACES



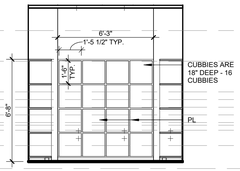
10 RESOURCE LIBRARY - WEST ELEVATION
1/4" = 1'-0"



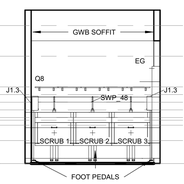
09 SIM. CUBBIE ALCOVE - N
1/4" = 1'-0"



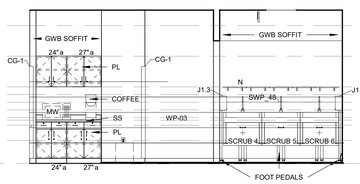
08 SIM. CUBBIE ALCOVE - S
1/4" = 1'-0"



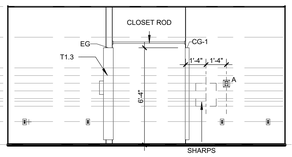
07 SIM. CUBBIE ALCOVE - E
1/4" = 1'-0"



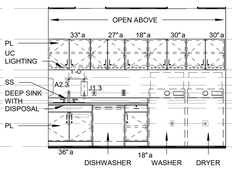
05 SIM SOUTH SCRUB
1/4" = 1'-0"



04 SIM COFFEE & NORTH SCRUB
1/4" = 1'-0"



03 CLEAN AND STOR - SOUTH
1/4" = 1'-0"



02 SOILED ROOM - SOUTH
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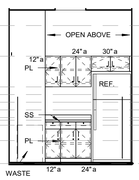

01 SIM STOR. ALCOVE
1/4" = 1'-0"

SIMULATION

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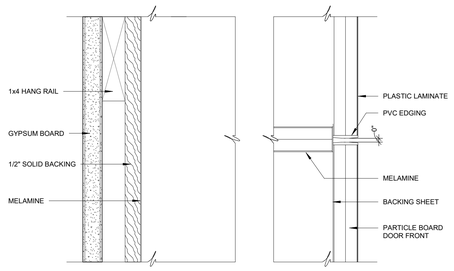
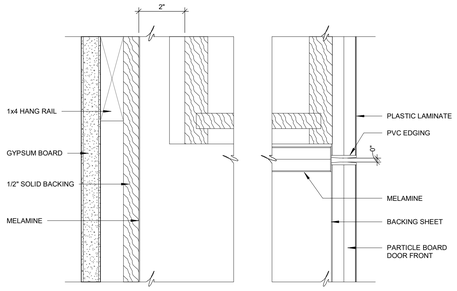
DATE:	JOB NUMBER:
07-26-19	17-13

SHEET NUMBER:
A7.31

MILLWORK ELEVATIONS



20 FALSE DRAWER TO DOOR SECTION
6" = 1'-0"



19 DRAWER TO DOOR SECTION
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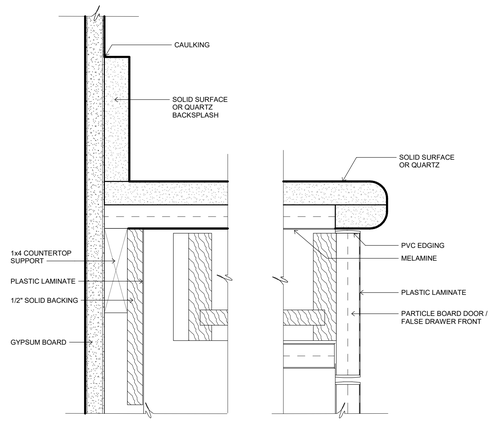
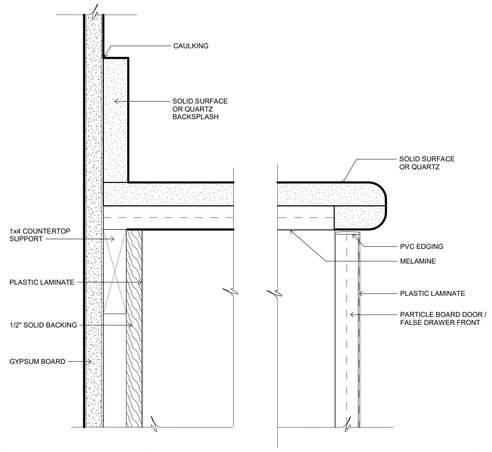
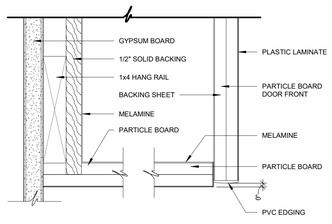


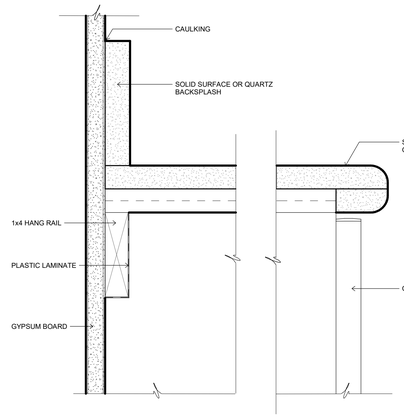
18 COUNTERTOP AT DRAWER
6" = 1'-0"



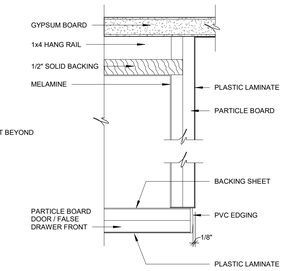
17 COUNTER TOP AT DOOR
6" = 1'-0"



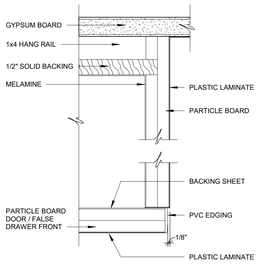
16 WALL CABINET AT BOTTOM
6" = 1'-0"



15 COUNTERTOP AT KNEESPACE
6" = 1'-0"



14 DRAWER AT FINISHED END SECTION
6" = 1'-0"



13 DOOR AT FINISHED END SECTION
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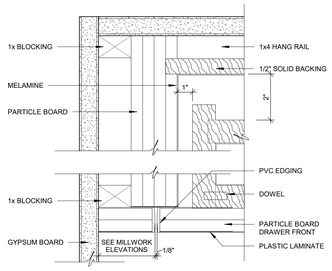

12 DRAWER SECTION
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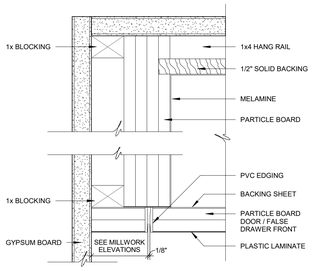

11 DOOR SECTION
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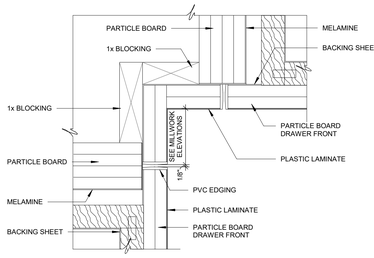
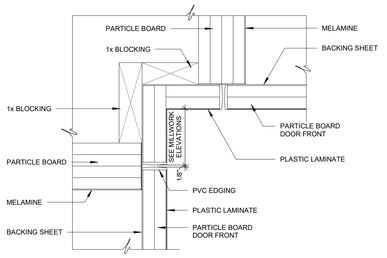
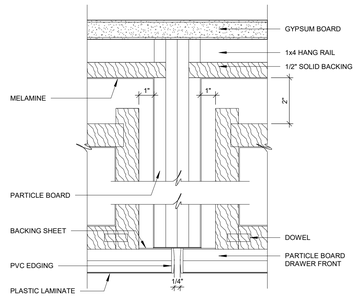


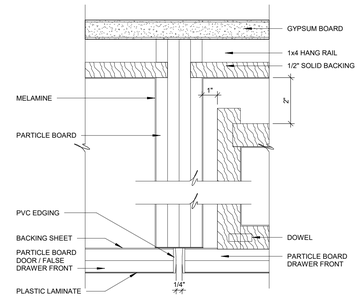
10 DRAWER SECTIONS AT CORNER
6" = 1'-0"



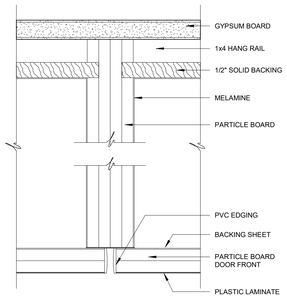
09 DOOR SECTIONS AT CORNER
6" = 1'-0"



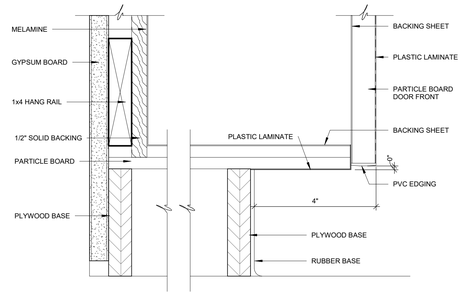
08 CABINET TO CABINET SECTION
6" = 1'-0"



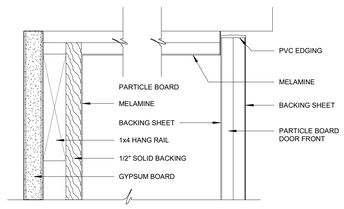
07 CABINET TO CABINET SECTION
6" = 1'-0"



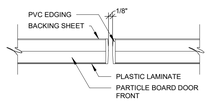
06 CABINET TO CABINET SECTION
6" = 1'-0"



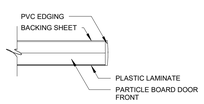
05 BASE CABINET AT FLOOR
6" = 1'-0"



04 WALL CABINET AT FURR DOWN
6" = 1'-0"

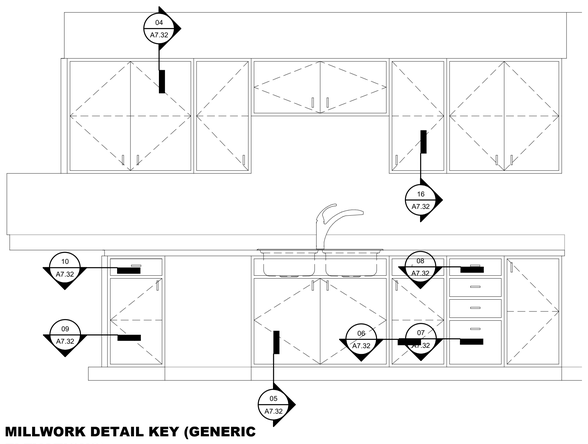


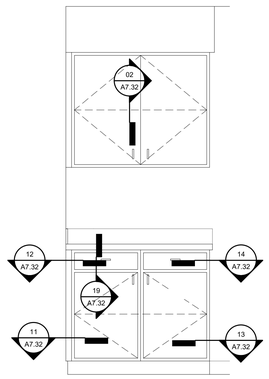
03 DOOR TO DOOR SECTION
6" = 1'-0"

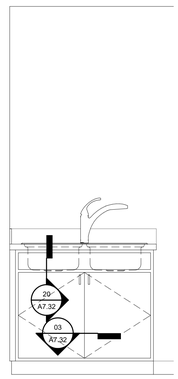


NOTE: 1" PARTICLE BOARD SHELF AT SPANS GREATER THAN 3'-0"

02 SHELF SECTION
6" = 1'-0"







01 MILLWORK DETAIL KEY (GENERIC ELEVATIONS)
3/4" = 1'-0"

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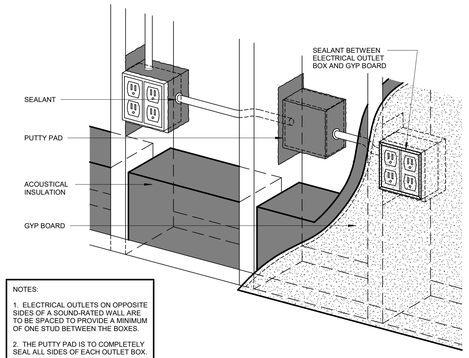
07-26-19	17-13

SHEET NUMBER:
A7.32

MILLWORK DETAILS

NOTES:

PUTTY PAD MUST BE FIRE RATED IN FIRE RATED PARTITIONS.



NOTES:

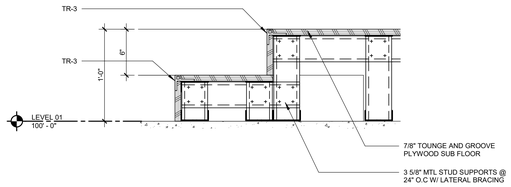
1. ELECTRICAL OUTLETS ON OPPOSITE SIDES OF A SOUND-RATED WALL ARE TO BE SPACED TO PROVIDE A MINIMUM OF ONE STUD BETWEEN THE BOXES.

2. THE PUTTY PAD IS TO COMPLETELY SEAL ALL SIDES OF EACH OUTLET BOX.

3. WHERE PARTITIONS ARE SCHEDULED TO BE SOUND RATED PROVIDE ACOUSTICAL PUTTY PAD AT ALL OUTLET LOCATIONS.

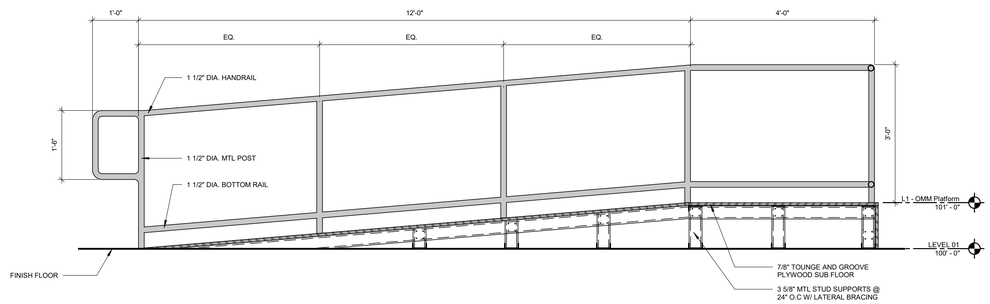
03 ACOUSTICAL PUTTY PAD SOUND ATTENUATION IN INTERIOR PARTITION

1 1/2" = 1'-0"



02 STAGE SECTION @ OMM/CLINICAL SKILLS

1 1/2" = 1'-0"



01 RAMP SECTION @ OMM/CLINICAL SKILLS

3/4" = 1'-0"

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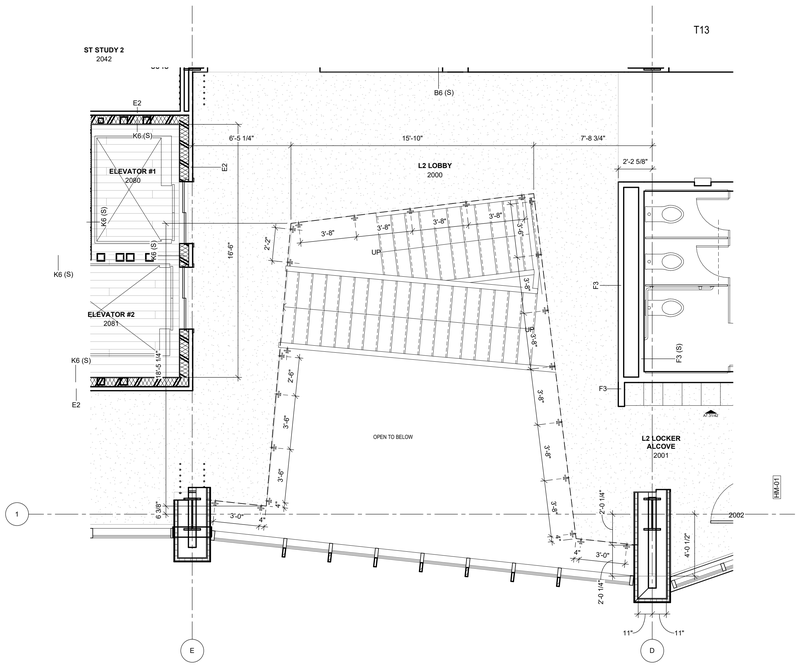
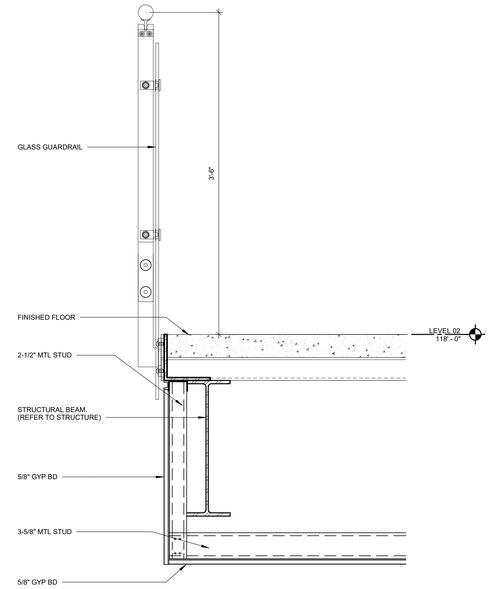
A7.40

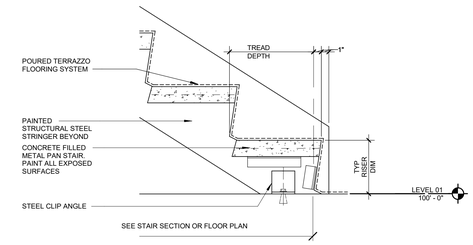
INTERIOR DETAILS



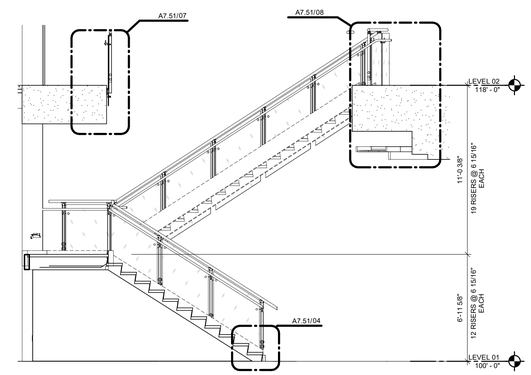
09 FLOOR PLAN LEVEL 02 - BALCONY PLAN
1/4" = 1'-0"



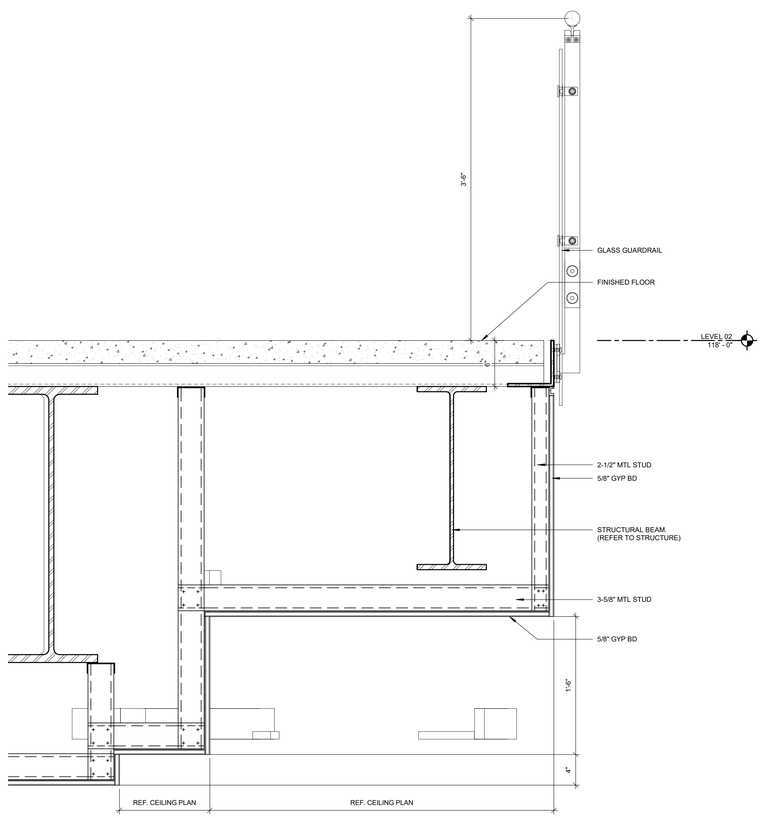
07 SECTION @ BALCONY
1 1/2" = 1'-0"



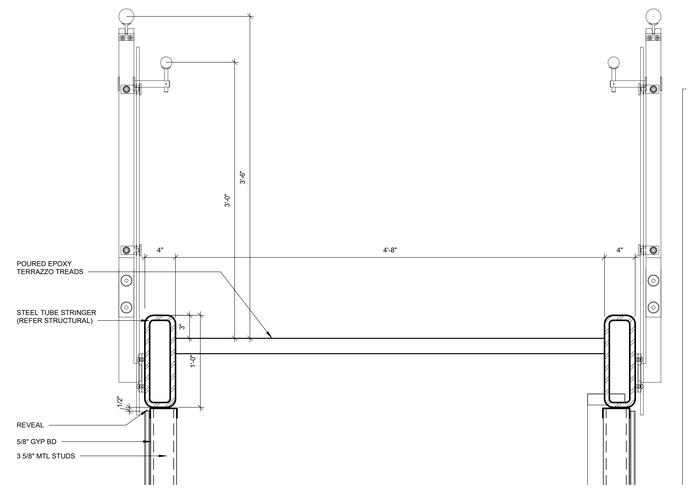
04 SECTION DETAIL @ LOBBY STAIR BOTTOM LANDING
1 1/2" = 1'-0"



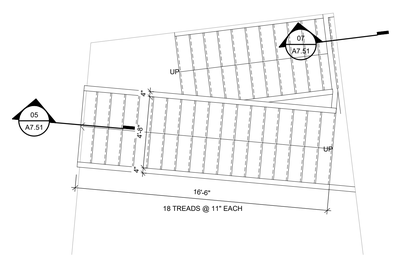
03 LOBBY STAIR SECTION
1/4" = 1'-0"



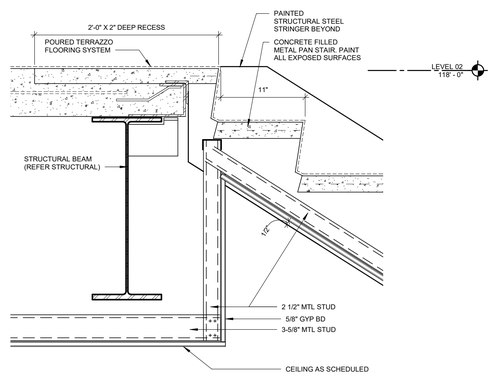
08 SECTION @ BALCONY
1 1/2" = 1'-0"



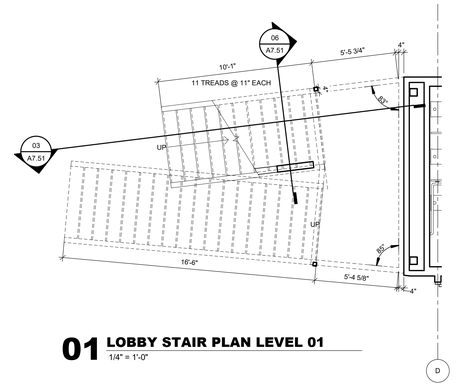
06 LOBBY STAIR SECTION DETAIL
1 1/2" = 1'-0"



02 LOBBY STAIR PLAN LEVEL 02
1/4" = 1'-0"



05 SECTION DETAIL @ LOBBY STAIR TOP LANDING
1 1/2" = 1'-0"



01 LOBBY STAIR PLAN LEVEL 01
1/4" = 1'-0"

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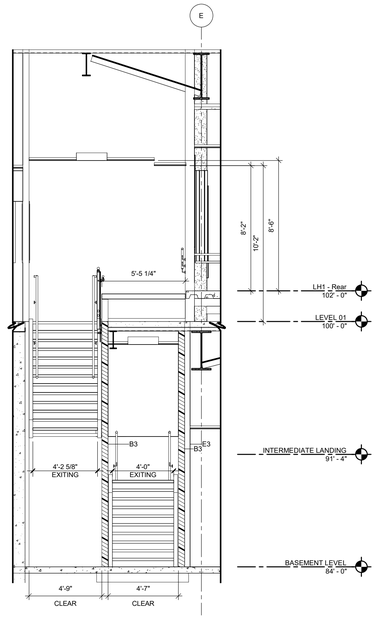
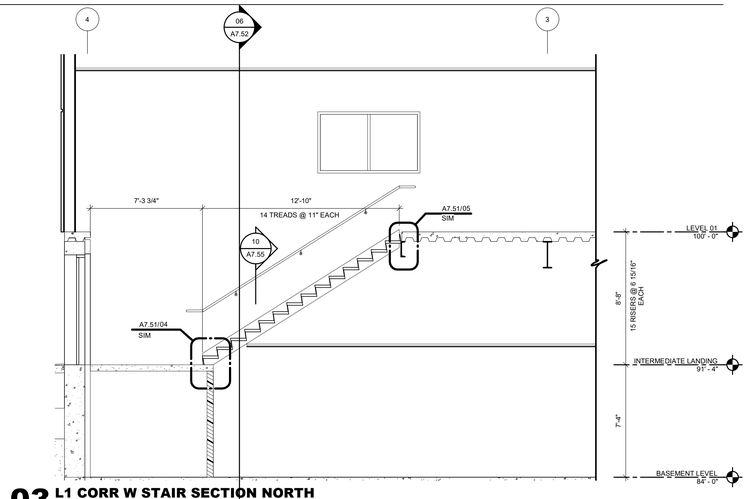
A7.51

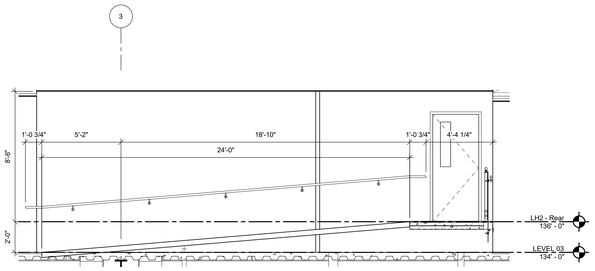
LOBBY STAIR / BALCONY DETAIL



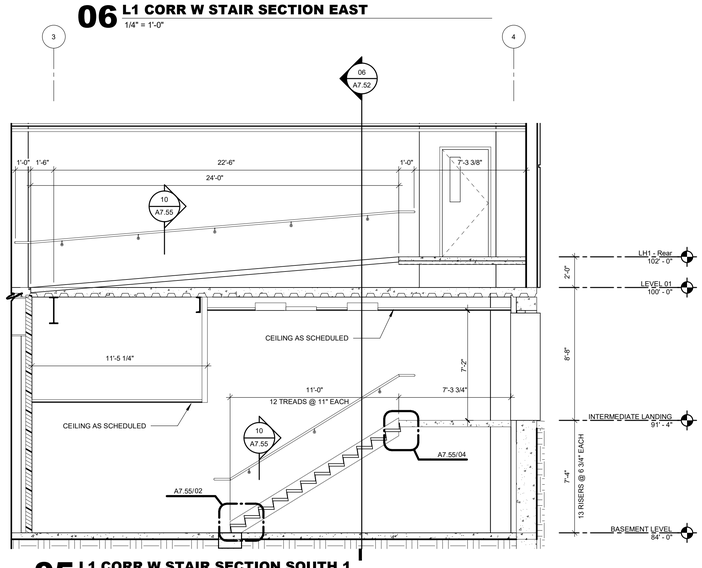
06 L1 CORR W STAIR SECTION EAST
1/4" = 1'-0"



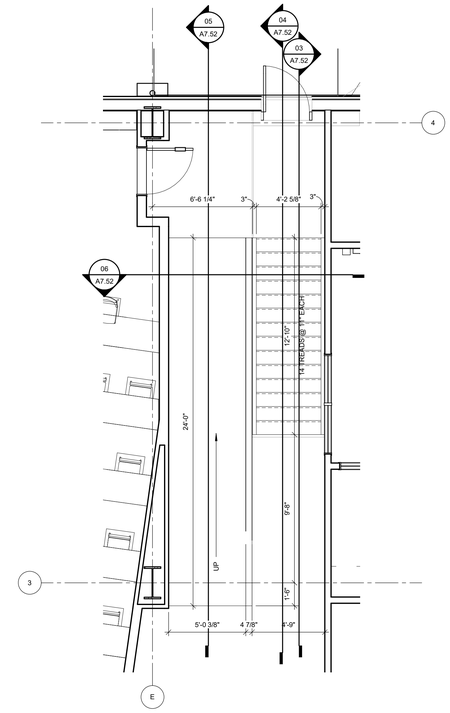
03 L1 CORR W STAIR SECTION NORTH
1/4" = 1'-0"



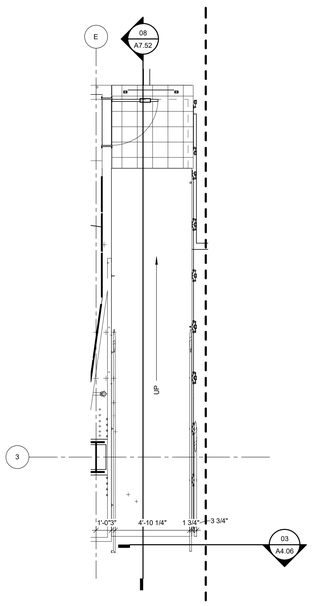
08 L3 RAMP SECTION
1/4" = 1'-0"



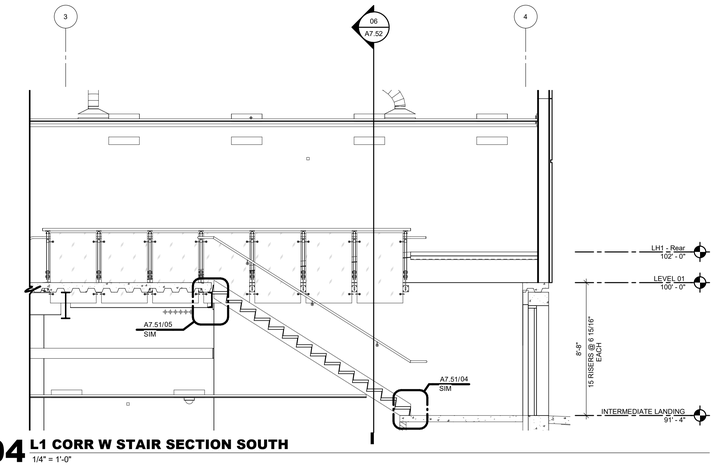
05 L1 CORR W STAIR SECTION SOUTH 1
1/4" = 1'-0"



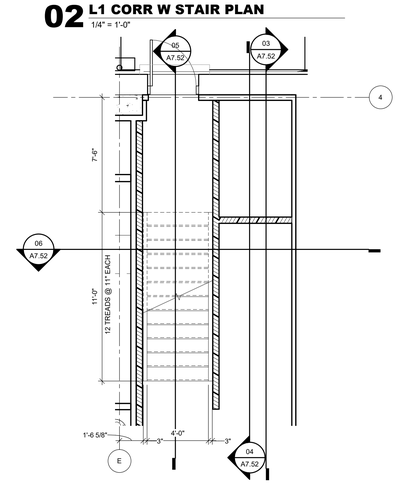
02 L1 CORR W STAIR PLAN
1/4" = 1'-0"



07 L3 RAMP PLAN
1/4" = 1'-0"



04 L1 CORR W STAIR SECTION SOUTH
1/4" = 1'-0"



01 BASEMENT EXIT CORRIDOR STAIR
1/4" = 1'-0"

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TAHLEQUAH, OKLAHOMA

KEY PLAN:

PROJECT PHASE:
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REVISIONS

#	DATE	DESCRIPTION

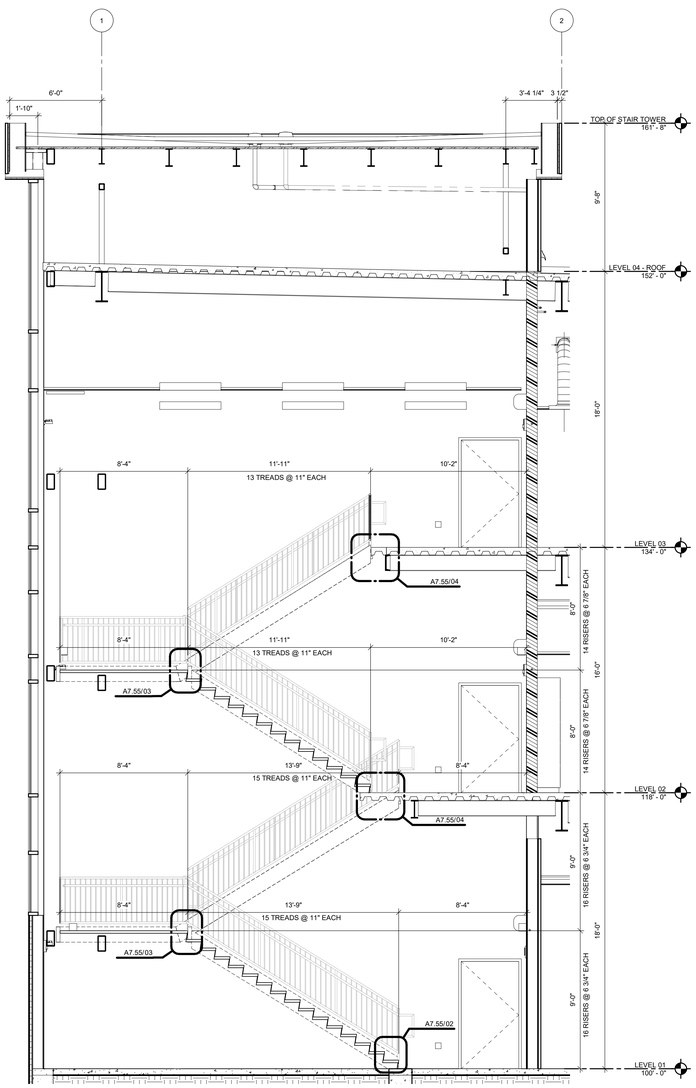
DATE:	JOB NUMBER:
07-26-19	17-13

SHEET NUMBER:
A7.52

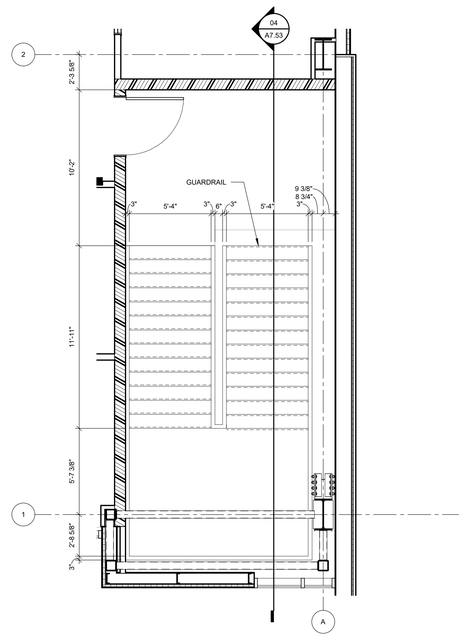
L1 CORR W STAIR / RAMP DETAILS

GENERAL NOTES - STAIRS

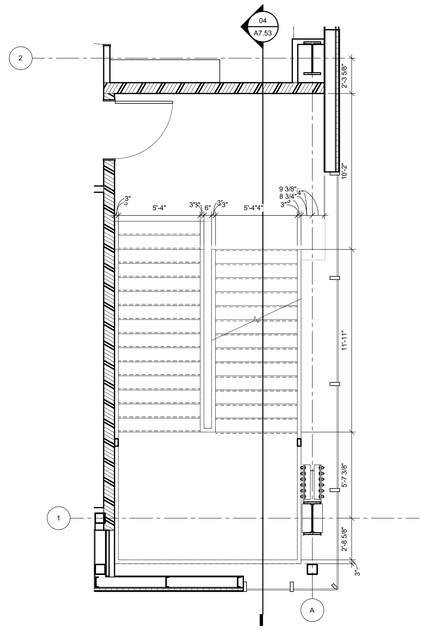
1. ALL BUILDING STRUCTURAL MEMBERS SUPPORTING STAIRS TO RECEIVE INTUMESCENT PAINT



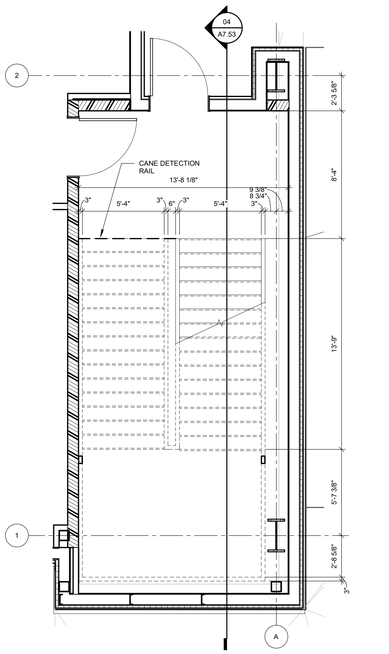
04 NORTH STAIR SECTION
1/4" = 1'-0"



03 NORTH STAIR LEVEL 03
1/4" = 1'-0"



02 NORTH STAIR LEVEL 02
1/4" = 1'-0"



01 NORTH STAIR LEVEL 01
1/4" = 1'-0"

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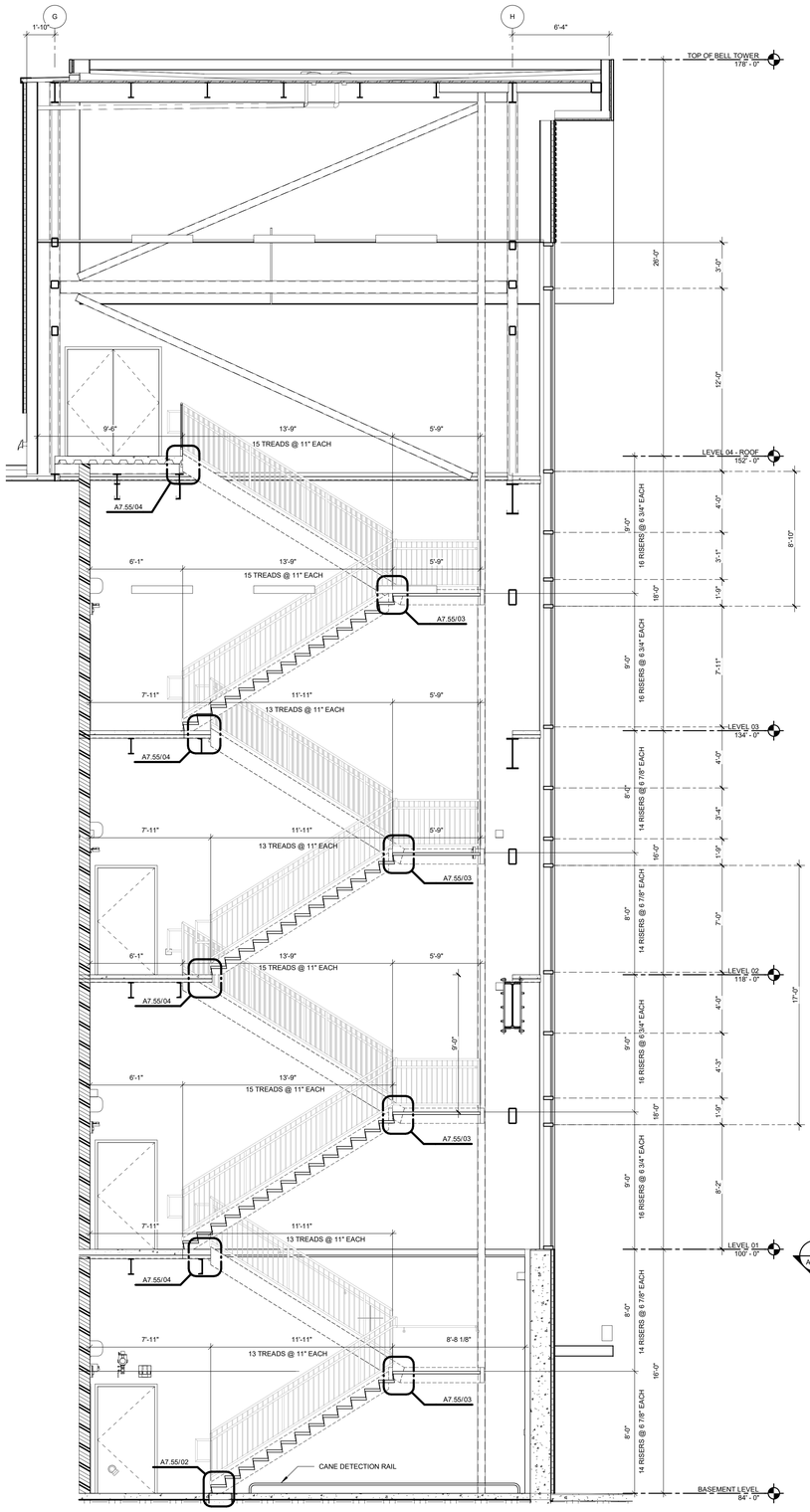
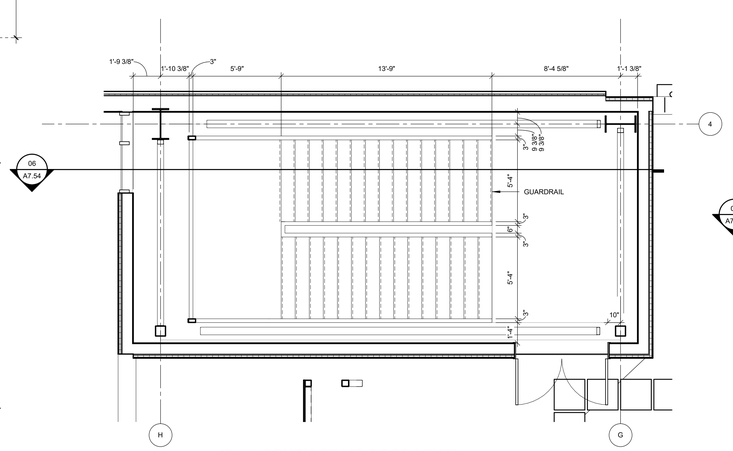
NORTH STAIR PLANS AND SECTION

GENERAL NOTES - STAIRS

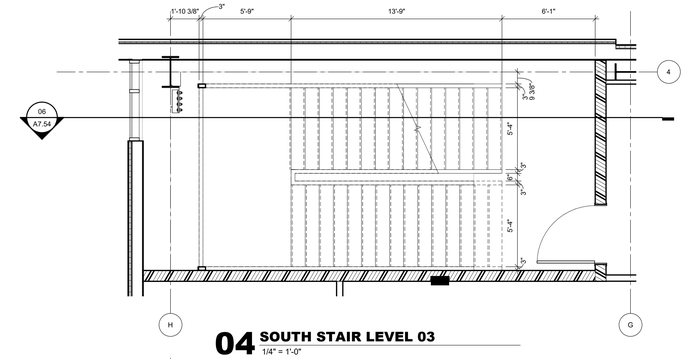
1. ALL BUILDING STRUCTURAL MEMBERS SUPPORTING STAIRS TO RECEIVE INTUMESCENT PAINT



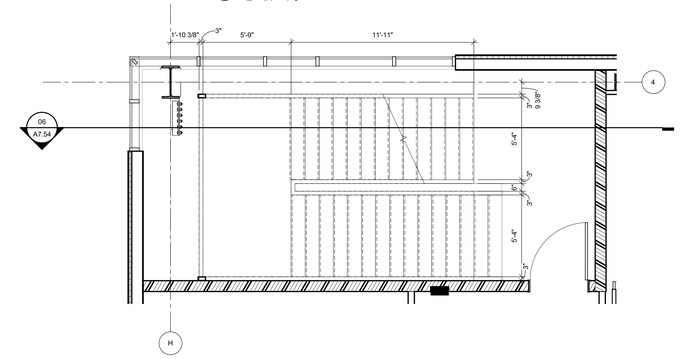
06 SOUTH STAIR SECTION
1/4" = 1'-0"



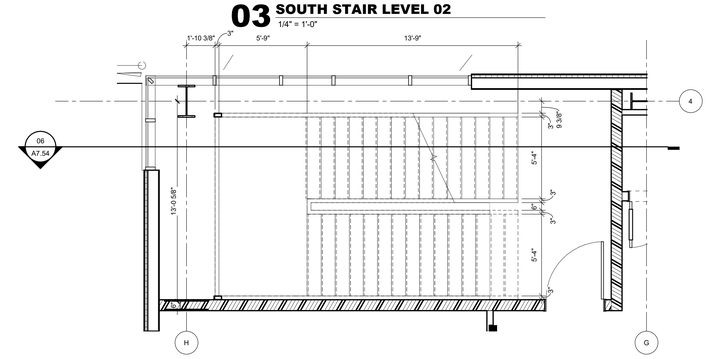
05 SOUTH STAIR ROOF LEVEL
1/4" = 1'-0"



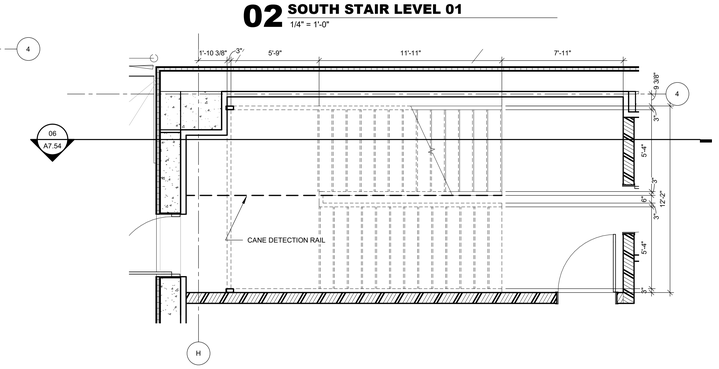
04 SOUTH STAIR LEVEL 03
1/4" = 1'-0"



03 SOUTH STAIR LEVEL 02
1/4" = 1'-0"



02 SOUTH STAIR LEVEL 01
1/4" = 1'-0"



01 SOUTH STAIR BASEMENT LEVEL
1/4" = 1'-0"

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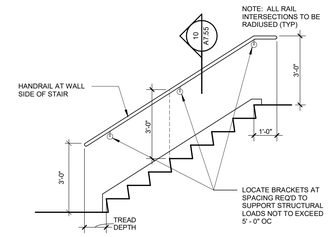
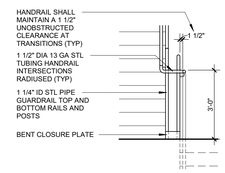
SOUTH STAIR PLANS AND SECTION

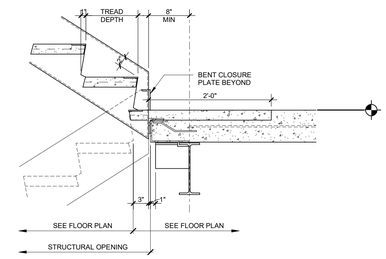
10 HANDRAIL MOUNTING AT GYP BOARD WALL
1 1/2" = 1'-0"



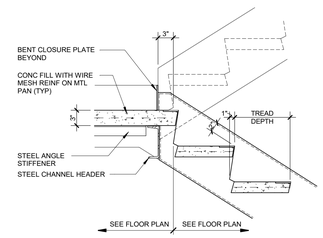
09 STAIR RAILING AT WALL
3/8" = 1'-0"



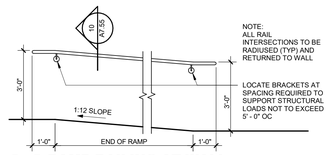
08 STAIR RAILING AT TRANSITION
3/8" = 1'-0"



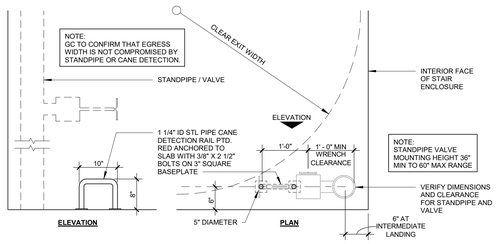
04 FLOOR LANDING AT CONCRETE ON METAL DECK
1" = 1'-0"



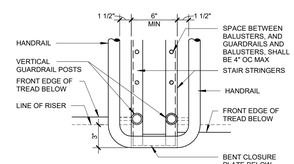
03 INTERMEDIATE LANDING
1" = 1'-0"



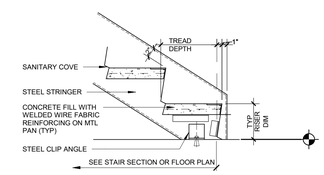
14 RAMP RAILING AT WALL
3/8" = 1'-0"



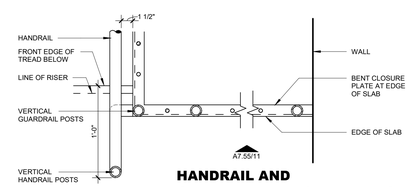
13 TYPICAL STANDPIPE
3/4" = 1'-0"



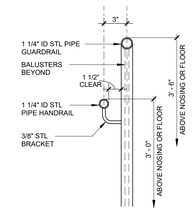
HANDRAIL AND GUARDRAIL AT LANDING PLAN
07
1 1/2" = 1'-0"



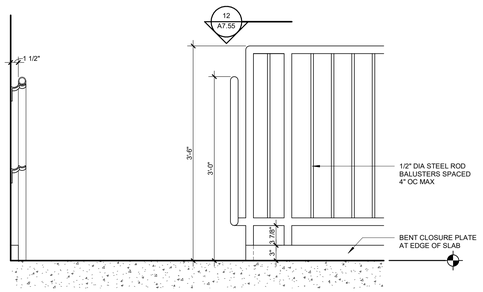
02 STRINGER TO SLAB CONNECTION
1" = 1'-0"



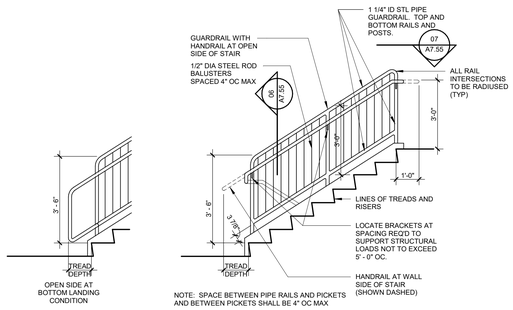
HANDRAIL AND GUARDRAIL AT TOP LANDING
12
1 1/2" = 1'-0"



06 HANDRAIL AND GUARDRAIL SECTION
1 1/2" = 1'-0"

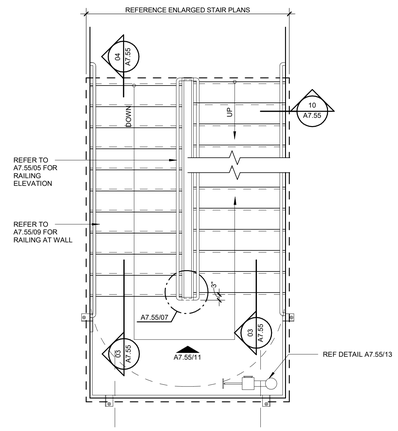


11 RAILING AND GUARDRAIL AT TOP LANDING
1" = 1'-0"



NOTE: SPACE BETWEEN PIPE RAILS AND PICKETS AND BETWEEN PICKETS SHALL BE 4" OC MAX

05 STAIR RAILING ELEVATION
3/8" = 1'-0"



NOTE: REFER TO FLOOR PLANS FOR STAIR ORIENTATION.

01 STAIR PLAN REFERENCE
3/8" = 1'-0"

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STEEL STAIR SECTIONS AND DETAILS

INTERIOR FINISH SCHEDULE

LOCATION						
ROOM NUMBER	ROOM NAME	FLOOR	BASE	WALL	CEILING	REMARKS
BASEMENT LEVEL						
01-ANATOMY						
B003	NEUROANATOMY	RF-1 / RF-2	IB	GYP	SA	NOTE 1
B004	ANATOMY OFF 3	VT-1	RB	GYP	SA	
B005	NEURO PREP	RF-1	IB	GYP	SA	
B006	CADAVER STORAGE & LOADING	RF-1	IB	GYP / HWC	SA	NOTE 2
B007	GROSSANATOMY	RF-1 / RF-2	IB	GYP / HWC	SA	NOTES 1 & 2
B008	ANATOMY WORKROOM	RF-1	IB	GYP	SA	
B009	GROSS ANATOMY PREP	RF-1	IB	GYP	SA	
B024	ANATOMY OFFICE 1	CPT-3	RB	GYP	SA	
B027	ANATOMY OFF 2	CPT-3	RB	GYP	SA	
05-SIMULATION						
B021	SIMULATION COMPRESSOR AND VACUUM PUMP	ECS	RB	GYP	OPEN	
10-MISCELLANEOUS						
B012	UPS ROOM	ECS	RB			
B012A	HOLDING	ECS	RB	GYP	SA	
B014	FIRE PUMP ROOM	ECS	RB	GYP	SA	
B015	SHARED FACILITIES & HOUSEKEEPING OFFICE	ECS	RB	GYP	SA	
B016	SECURITY OFFICE	CPT-3	RB	GYP	SA	
B206	BSMT COPY ALCOVE	VT-1 / VT-2	RB		SA / GYP	NOTES 1 & 2
BUILDING SERVICES						
B002	BSMT ELEC	ECS	RB	GYP	OPEN	
B017	MAIL ROOM	ECS	RB	HWC	OPEN	
B018	MDF ROOM	ECS	RB	GYP	SA	
B019	MAIN ELEC ROOM	ECS	RB	HWC	OPEN	
B020	EMER ELEC	ECS	RB	HWC	OPEN	
B022	BSMT JAN	ECS	RB	HWC	SA	
B023	BSMT RESTROOM 2	PTF	TR	PTW / AT	SA / GYP	NOTES 1 & 2
B025	BSMT RESTROOM 1	PTF	TR	PTW / AT	SA / GYP	NOTES 1 & 2
B028	BSMT MECH. BASE	ECS	RB	GYP	OPEN	
NONPUBLIC CIRCULATION						
B010	BASEMENT BOH CORRIDOR	ECS	RB	GYP / HWC	SA / GYP	NOTES 1 & 2
PUBLIC CIRCULATION						
B001	BASEMENT LOBBY & CIRCULATION	VT-1	RB	GYP	SA / GYP	NOTE 2
B029	BSMT EXIT CORRIDOR	VT-1	RB	GYP	OPEN	
VERTICAL CIRCULATION / SHAFT						
B011	BSMT STAIR S	RF / ST	IB / RB	GYP	OPEN	NOTES 1 & 2
B030	ELEVATOR #1	VWP-2	RB		N / A	NOTE 4
B031	ELEVATOR #2	VWP-2				NOTE 4
LEVEL 01						
1001C	DRESS					
03-OMM						
1060	OMM	CPT-1	RB	GYP	SA / GYP	NOTES 2 & 6
1061	OMM STOR 1	VCT	RB	GYP	SA	
1062	OMM AV	ECS	RB	GYP	SA	
05-SIMULATION						
1031	SIMULATION CORRIDOR	VT-1 / VT-2	RB	GYP	SA	NOTE 1
1032	MED SURG SIMULATION	MSV	RB	GYP	SA	
1033	SIM CUBBIES	VT-1 / VT-2	RB	GYP	SA	NOTE 1
1034	MS CONTROL/OFFICE	CPT-3	RB	GYP	SA	
1035	MED SURG OBS	CPT-3	RB	GYP	SA	
1036	MED ALCOVE W	VT-1	RB	GYP	SA	
1037	SIM DEBRIEF 2	CPT-2	RB	GYP	SA	
1038	ER CONTROL / OFFICE	CPT-3	RB	GYP	SA	
1039	SIM SERV	ECS	RB	GYP	SA	
1040	ER SIMULATION	MSV	RB	GYP	SA	
1041	SIM STORAGE	VCT	RB	GYP	SA	
1042	SIM TOILET 2	PTF	TR	PTW / AT	SA	NOTE 1
1043	STRETCHER ALCOVE	VT-1	RB	GYP	SA	
1044	SIM TOILET 1	PTF	TR	PTW / AT	SA	NOTE 1
1045	COFFEE ALCOVE	VT-1	RB	GYP	SA	
1046	SIM OFF	CPT-3	RB	GYP	SA	
1047	MATERNITY SIMULATION	MSV	RB	GYP	SA / GYP	NOTE 2
1048	CLEAN AND STORAGE	VCT	RB	GYP	SA	
1049	MATERNITY CONTROL	CPT-3	RB	GYP	SA	
1050	MATERNITY OBS	CPT-3	RB	GYP	SA	
1051	STORAGE ALCOVE E	VT-1 / VT-2	RB	GYP	SA	NOTE 1
1052	SOILED	VCT	RB	GYP	SA	
1053	PEDS CONTROL	CPT-3	RB	GYP	SA	
1054	LINEN ALCOVE	VT-1 / VT-2	RB	GYP	SA	NOTE 1
1055	PEDIATRIC SIMULATION	MSV	RB	GYP	SA	
1056	SIM DEBRIEF 1	CPT-2	RB	GYP	SA	
1064	VR SIM ROOM	CPT-3	RB	GYP	SA	
1065	VR SIM STOR	VCT	RB	GYP	SA	
06-INSTRUCTIONAL CLASSROOM SPACE						
1009	LH 1	CPT-1	RB	GYP	SA / GYP	NOTES 2 & 6
1010	LH 1 AV	ECS	RB	GYP	SA	
1011A	CLASSROOM - LL1	CPT-1	RB	GYP	SA / GYP	NOTE 2
1011B	CLASSROOM - LL1	CPT-1	RB	GYP	SA / GYP	NOTE 2
1012	GS 4	CPT-2	RB	GYP	SA	
1015	GS 5	CPT-2	RB	GYP	SA	NOTE 5
1024	GS 3	CPT-2	RB	GYP	SA	NOTE 5
1025	GS 2	CPT-2	RB	GYP	SA	NOTE 5
1026	CLASSROOM - LL2	CPT-1	RB	GYP	SA / GYP	NOTES 2 & 6
1027	GS 1	CPT-2	RB	GYP	SA	NOTE 5
1066	GS 6	CPT-2	RB	GYP	SA	
1067	GS 7	CPT-2	RB	GYP	SA	
08-STUDENT SPACE						
1013	RELAXATION ROOM	CPT-2	RB	GYP	SA	NOTE 5
1017	GYM	RSF	RB	GYP	SA / GYP	NOTES 2 & 5
10-MISCELLANEOUS						
1001A	MARKETPLACE	VWP-2	RB	GYP	SA / GYP	NOTE 2
1001B	BOOKSTORE	VWP-2	RB	GYP	SA / GYP	NOTES 2 & 5
1002	BOOKSTORE STOR	VCT	RB	GYP	SA	
1004	RECEPTION / SECURITY	TZ	TZB	N/A	SA / GYP / WD	NOTE 2
1059	PERSONAL HEALTH RM	VT-1	RB	GYP	SA	
BUILDING SERVICES						
1005	TESTING STORAGE	VCT	RB	GYP	SA	
1008	L1 IDF	ECS	RB	GYP	SA	
1014	L1 JAN	ECS	RB	HWC	SA	
1016	L1 ELEC S	ECS	RB	GYP	SA	
1018	LOCKER RM 1	PTF	TR	PTW / AT	SA / GYP	NOTES 1 & 2
1019	LOCKER RM 2	PTF	TR	PTW / AT	SA / GYP	NOTES 1 & 2
1020	L1 TOILET 3	PTF	TR	PTW / AT	SA	
1021	L1 STORAGE	VCT	RB	GYP	SA	
1022	L1 TOILET 2	PTF	TR	PTW / AT	SA	NOTE 1
1023	L1 TOILET 1	PTF	TR	PTW / AT	SA	NOTE 1
1057	L1 RESTROOM AND DRESSING	PTF	TR	PTW / AT	SA / GYP	NOTES 1 & 2
1058	L1 RESTROOM AND DRESSING	PTF	TR	PTW / AT	SA / GYP	NOTES 1 & 2
1063	L1 ELEC N	ECS	RB	GYP	OPEN	
PUBLIC CIRCULATION						
1003	L1 LOBBY	TZ	TZB	GYP / WDP	SA / GYP / WD	NOTES 1 & 2 & 5
1007	L1 CORR S	PTF	RB	GYP	SA / GYP / WD	NOTE 2
1029	L1 CORR W	TZ	TZB	GYP	SA / GYP	NOTE 2
1030	L1 CORR N	PTF	RB	GYP / WC-1	SA / GYP	NOTES 1 & 2
VERTICAL CIRCULATION / SHAFT						
1028	L1 STAIR S	RF / ST	RB	GYP	OPEN	NOTE 5
1068	L1 STAIR N	RF / ST	RB	GYP	OPEN	
1069	ELEVATOR #1	VWP-2				NOTE 4
1070	ELEVATOR #2	VWP-2				NOTE 4
LEVEL 02						
02-CLINICAL SKILLS						
2073	CLINICAL SKILLS	MSV	IB	GYP	SA / GYP	NOTES 2 & 6
2074	CS STORAGE	VCT	RB	GYP	SA	
2075	CS AV	ECS	RB	GYP	SA	
04-CLINICAL EXAM / SP LAB						
2040A	CE SEATING	CPT-4				
2044	CE COPIER ALCOVE	CPT-4	RB	GYP	SA / GYP	NOTE 2
2045	CE STORAGE	VCT	RB	GYP	SA	
2046	EXAM 1	VT-1 / VT-2	RB	GYP	SA	
2047	EXAM 2	VT-1 / VT-2	RB	GYP	SA	
2048	EXAM 3	VT-1 / VT-2	RB	GYP	SA	
2049	EXAM 4	VT-1 / VT-2	RB	GYP	SA	
2050	EXAM 5	VT-1 / VT-2	RB	GYP	SA	
2051	EXAM 6	VT-1 / VT-2	RB	GYP	SA	
2052	EXAM CENTRAL CORRIDOR	CPT-4	RB	GYP	SA	
2053	CONTROL ROOM	VT-1	RB	GYP	SA	
2054	CE SERVER	ECS	RB	GYP	SA	
2055	DEBRIEF	CPT-4	RB	GYP	SA	
2056	PREBRIEF	CPT-4	RB	GYP	SA	
2058	EXAM 7	VT-1 / VT-2	RB	GYP	SA	NOTE 1
2059	EXAM 8	VT-1 / VT-2	RB	GYP	SA	NOTE 1
2060	EXAM 9	VT-1 / VT-2	RB	GYP	SA	NOTE 1
2061	EXAM 10	VT-1 / VT-2	RB	GYP	SA	NOTE 1
2062	SP CIRC & LOCKER	CPT-4	TR	GYP	GYP	
2063	SP TOILET	PTF	TR	PTW / AT	SA	NOTE 1
2064	SP TOILET	PTF	TR	PTW / AT	SA	NOTE 1
2065	SP SHOWER / CHANGING	PTF	TR	PTW / AT	GYP	NOTE 1
2066	SP WAITING & LOUNGE	VWP-1	RB	GYP	SA	
2067	CE OFFICE	CPT-4	RB	GYP	SA	
05-STUDENT SPACE						
2007	LIB CIRC	CPT-1	RB	GYP	SA	
06-INSTRUCTIONAL CLASSROOM SPACE						
2002	GS 11	CPT-2	RB	GYP	SA	NOTE 5
2017	GS 10	CPT-2	RB	GYP	SA	NOTE 5
2019	GS 9	CPT-2	RB	GYP	SA	NOTE 5
2021	GS 8	CPT-2	RB	GYP	SA	NOTE 5
2078	GS 12	CPT-2	RB	GYP	SA	NOTE 5
09-STUDENT SPACE						
2006	LIBRARY	CPT-1	RB	GYP	SA / GYP	NOTE 2
2008	LIB. OFFICE	CPT - 3	RB	GYP	SA	
2009	MEDIA STORAGE	VCT	RB	GYP	SA	
2010	REBOOT ROOM	CPT-2	RB	GYP	SA	
2011	SC 1	CPT-2	RB	GYP	SA	NOTE 5
2015	SC 2	CPT-2	RB	GYP	SA	NOTE 5
2016	STUDENT SENATE OFFICE	CPT-2	RB	GYP	SA	
2018	SC 4	CPT-2	RB	GYP	SA	
2020	SC 3	CPT-2	RB	GYP	SA	NOTE 5
2022	SC 5	CPT-2	RB	GYP	SA	
2023	SC 9	CPT-2	RB	GYP	SA	
2024	SC 6	CPT-2	RB	GYP	SA	NOTE 5
2025	SC 7	CPT-2	RB	GYP	SA	NOTE 5
2026	SC 8	CPT-2	RB	GYP	SA	NOTE 5
2028	SC 10	CPT-2	RB	GYP	SA	
2029	ST STUDY 3	CPT-2	RB	GYP	SA	NOTE 5
2030	SC 11	CPT-2	RB	GYP	SA	
2031	ST STUDY 4	CPT-2	RB	GYP	SA	NOTE 5
2032	SC 12	CPT-2	RB	GYP	SA	
2033	ST STUDY 5	CPT-2	RB	GYP	SA	NOTE 5
2035	ST STUDY 6	CPT-2	RB	GYP	SA	NOTE 5
2036	SC 13	CPT-2	RB	GYP	SA	
2037	ST STUDY 7	CPT-2	RB	GYP	SA	NOTE 5
2038	SC 14	CPT-2	RB	GYP	SA	
2040	CE WAITING	CPT-2	RB	GYP	SA / GYP	NOTE 2
2041	ST STUDY 1	CPT-2	RB	GYP	SA	
2042	ST STUDY 2	CPT-2	RB	GYP	SA	
2076	STUDENT LOUNGE - GAME AREA	VWP-2	RB	GYP	SA / GYP	NOTES 2 & 5
2077	STUDENT LOUNGE	VWP-2	RB	GYP	SA / GYP	NOTES 2 & 5
BUILDING SERVICES						
2003	L2 MECH	ECS	RB	GYP	OPEN	
2005	L2 IDF	ECS	RB	GYP	SA	
2012	L2 JAN	ECS	RB	HWC	SA	
2014	L2 ELEC S	ECS	RB	GYP	SA	
2034	L2 FAM TLT 1	PTF	TR	PTW / AT	SA	
2039	L2 FAM TLT 2	PTF	TR	PTW / AT	SA	
2069	L2 RESTROOM AND DRESSING	PTF	TR	PTW / AT	SA / GYP	NOTE 2
2070	L2 RESTROOM AND DRESSING	PTF	TR	PTW / AT	SA / GYP	NOTE 2
2072	L2 ELEC N	ECS	RB	GYP	SA	
NONPUBLIC CIRCULATION						
2043	CE PERIMETER CORR 2	CPT-4	RB	GYP	SA / GYP	NOTES 2 & 5
2057	CE PERIMETER CORR 1	CPT-4	RB	GYP	SA / GYP	NOTE 2
PUBLIC CIRCULATION						
2000	L2 LOBBY	TZ	TZB	GYP	SA / GYP	NOTE 2
2001	L2 LOCKER ALCOVE	TZ	TZB	GYP	SA / GYP	NOTES 2 & 5
2004	L2 CORR S	PTF	RB	GYP	SA / GYP	NOTE 2
2068	L2 CORR N	PTF	RB	GYP	SA / GYP	NOTE 2
VERTICAL CIRCULATION / SHAFT						
2027	LS STAIR 2	RF / ST	RB	GYP	OPEN	NOTE 5
2079	L2 STAIR N	RF / ST	RB	GYP	OPEN	NOTE 5
2080	ELEVATOR #1	VWP-2				NOTE 4
2081	ELEVATOR #2	VWP-2				NOTE 4
LEVEL 03						
06-INSTRUCTIONAL CLASSROOM SPACE						
3006	LH 2	CPT-1	RB	GYP	SA / GYP	NOTE 2 & 6
3007	LH 2 AV	ECS	RB	GYP	SA	
3106A	CLASSROOM - LL4	CPT-1	RB	GYP	SA / GYP	NOTE 2
3106B	CLASSROOM - LL4	CPT-1	RB	GYP	SA / GYP	NOTE 2
3110A	CLASSROOM - LL3	CPT-1	RB	GYP	SA / GYP	NOTE 2
3110B	CLASSROOM - LL3	CPT-1	RB	GYP	SA / GYP	NOTE 2
07-EXECUTIVE						
3010	EXEC ADMIN 1	VWP-1	RB	GYP / WC-1	SA / GYP	NOTES 1 & 2
3011	EXEC OFF 1	CPT-4	RB	GYP	SA	NOTE 5
3012	EXEC OFF 2	CPT-4	RB	GYP	SA	NOTE 5
3015	A/A DEAN OFF	CPT-4	RB	GYP	SA	NOTE 5
3016	EXEC ADMIN 2	VWP-1	RB	GYP / WC1	SA / GYP	NOTES 1 & 2
3017	CAMPUS DEAN OFFICE	CPT-4	RB	GYP	SA	NOTES 1 & 5
3018	DEAN STOR	CPT-4	RB	GYP	SA	
3019	EXECUTIVE TOILET	PTF	TR	PTW / AT	GYP	NOTE 1
3020	OSU CHS PRESIDENT OFF	CPT-4	RB	GYP	SA	NOTES 1 & 5
3020A	PRES STOR	CPT-4	RB	GYP	SA	
3021	EXEC CONF	VWP-1	RB	GYP / WC-2	SA	NOTES 1 & 5
3022	EXECUTIVE KITCHENETTE	VWP-1	RB	GYP	SA / GYP	NOTE 2
3023	EXEC OFF 3	CPT-4	RB	GYP	SA	
3024	EXEC STOR	VWP	RB	GYP	SA	
3025	EXEC WKRM/COPY	VT-1	RB	GYP	SA	
08-FACULTY SPACE						
3001	FACULTY CONF 1	CPT-2	RB	GYP	SA	
3002	FACULTY WORKROOM	VT-1	RB	GYP	SA	NOTE 5
3027	FACULTY CONF 3	CPT-4	RB	GYP	SA	NOTE 5
3028	SH 3	CPT-4	RB	GYP	SA	
3029	STAFF 25	CPT-4	RB	GYP	SA	NOTE 5
3030	SH 2	CPT-4	RB	GYP	SA	
3031	STAFF 24	CPT-4	RB	GYP	SA	NOTE 5
3032	STAFF 23	CPT-4	RB	GYP	SA	NOTE 5
3033	SH 1	CPT-4	RB	GYP	SA	
3034	IT WORKROOM	RF	RB	GYP	SA	
3035	S FAC COPY ALCOVE	VWP-1	RB	GYP	SA / GYP	NOTES 2 & 5
3052	STAFF 22	CPT-3	RB	GYP	SA	NOTE 5
3053	STAFF 21	CPT-3	RB	GYP	SA	
3054	OFF 14	CPT-3	RB	GYP	SA	NOTE 5
3055	STAFF 20	CPT-3	RB	GYP	SA	
3056	OFF 13	CPT-3	RB	GYP	SA	NOTE 5
3057	STAFF 19	CPT-3	RB	GYP	SA	
3058	OFF 12	CPT-3	RB	GYP	SA	NOTE 5
3059	STAFF 18	CPT-3	RB	GYP	SA	
3060	OFF 11	CPT-3	RB	GYP	SA	NOTE 5
3061	STAFF 17	CPT-3	RB	GYP	SA	
3062	OFF 10	CPT-3	RB	GYP	SA	NOTE 5
3063	STAFF 16	CPT-3	RB	GYP	SA	
3064	STAFF 15	CPT-3	RB	GYP	SA	
3065	OFF 9	CPT-3	RB	GYP	SA	NOTE 5
3066	STAFF 14	CPT-3	RB	GYP	SA	
3067	OFF 8	CPT-3	RB	GYP	SA	NOTE 5
3069	STAFF 13	CPT-3	RB	GYP	SA	
3070	OFF 7	CPT-3	RB	GYP	SA	NOTE 5
3071	STAFF 12	CPT-3	RB	GYP	SA	
3072	OFF 6	CPT-3	RB	GYP	SA	NOTE 5
3073	OFF 5	CPT-3	RB	GYP	SA	NOTE 5
3074	OFF 4	CPT-3	RB	GYP	SA	NOTE 5
3075	SH 5	CPT-3	RB	GYP	SA	NOTE 5
3076	SH 4	CPT-3	RB	GYP	SA	NOTE 5
3077	OFF 3	CPT-3	RB	GYP	SA	NOTE 5
3078	STAFF 6	CPT-3	RB	GYP	SA	
3079	OFF 2	CPT-3	RB	GYP	SA	NOTE 5
3080	STAFF 5	CPT-3	RB	GYP	SA	
3081	OFF 1	CPT-3	RB	GYP	SA	NOTE 5
3082	STAFF 4	CPT-3	RB	GYP	SA	
3083	STAFF 2	CPT-3	RB	GYP	SA	NOTE 5
3084	STAFF 3	CPT-3	RB	GYP	SA	
3085	STAFF 1	CPT-3	RB	GYP	SA	NOTE 5
3086	CS1 OFF 1	CPT-3	RB	GYP	SA	
3089	CSI OFF 2	CPT-3	RB	GYP	SA	
3090	CSI OFF 3	CPT-3	RB	GYP	SA	NOTE 5
3091	RH & CSI CONF	CPT-2	RB	GYP	SA	NOTE 5
3093	RH OFF 2	CPT-3	RB	GYP	SA	
3094	RH SH OFF	CPT-3	RB	GYP	SA	NOTE 5
3095	STAFF 7	CPT-3	RB	GYP	SA	
3096	STAFF 8	CPT-3	RB	GYP	SA	
3097	STAFF 9	CPT-3	RB	GYP	SA	
3098	STAFF 10	CPT-3	RB	GYP	SA	
3099	STAFF 11	CPT-3	RB	GYP	SA	
3100	N FAC COPY ALCOVE	VT-1	RB	GYP	SA / GYP	NOTE 2
3102	LL4 STOR 2	VCT	RB	GYP	SA	
3104	LL4 STOR 1	VCT	RB	GYP	SA	
3108	FACULTY CONF 2	CPT-2	RB	GYP	SA	NOTE 5
3111	LL3 STOR 2	VCT	RB	GYP	SA	
3112	FACULTY BREAKROOM	VWP	RB	GYP	SA / GYP	NOTES 2 & 5
09-STUDENT SPACE						
3008	SS WAITING	VT-1 / VT-2	RB	GYP	SA	NOTE 1
3038	SS CIRC	VT-1 / VT-2	RB	GYP	SA / GYP	NOTES 1 & 2
3039	SS CONF RM	CPT-4	RB	GYP	SA	
3040	SS WKRM/COPY	VT-1	RB	GYP	SA / GYP	NOTE 2
3041	SS COFFEE	VT-1 / VT-2	RB	GYP	SA / GYP	NOTES 1 & 2
3042	SS STORAGE	VCT	RB	GYP	SA	
3043	SS ASST SA & WC	CPT-4	RB	GYP	SA	
3044	SS ADMIN ASST	CPT-4	RB	GYP	SA	
3045	ADDT OFF 1	CPT-4	RB	GYP	SA	
3046	ADMIN LOAN OFF	CPT-4	RB	GYP	SA	
3047	ADDT OFF 2	CPT-4	RB	GYP	SA	
3048	SS ASST REG	CPT-4	RB	GYP	SA	
3049	ADDT OFF 3	CPT-4	RB	GYP	SA	
3050	SS LEARNING SPEC	CPT-4	RB	GYP	SA	
BUILDING SERVICES						
3003	JAN	ECS	RB	GYP	OPEN	
3005	L3 IDF	ECS	RB	GYP	SA	
3014	L3 ELEC S	ECS	RB	GYP	SA	
3101	L3 ELEC N	ECS	RB	GYP	SA	
3105	L3 RESTROOM	PTF	TR	PTW / AT	SA / GYP	NOTES 1 & 2
3109	L3 RESTROOM	PTF	TR	PTW / AT	SA / GYP	NOTES 1 & 2
NONPUBLIC CIRCULATION						
3009	EXEC CORRIDOR	VWP-1	RB	GYP / WC-1	SA / GYP	NOTES 1 & 2
3026	FAC CORR S	VWP-1	RB	GYP	SA / GYP	NOTE 2
3051	FAC CORR N	VT-1 / VT-2	RB	GYP	SA / GYP	NOTES 1 & 2
3088	CSI CIRC	VT-1	RB	GYP	SA / GYP	NOTE 2
3092	RH CIRC	VT-1	RB	GYP	SA / GYP	NOTE 2
PUBLIC CIRCULATION						
3000	L3 LOBBY	TZ	RB	GYP	SA / GYP	NOTES 2 & 5
3037	L3 CIRC S	VT-1 / VT-2	RB	GYP	SA / GYP	NOTES 1 & 2 & 5
3061	L3 CIRC N	VT-1 / VT-2	RB	GYP	SA / GYP	NOTES 1 & 2
VERTICAL CIRCULATION / SHAFT						
3036	L3 STAIR 3	RF-1 / ST	IB / RB	GYP	OPEN	NOTES 1 & 5
3087	L3 STAIR N	RF-1 / ST	IB / RB	GYP	OPEN	NOTES 1 & 5
3114	ELEVATOR #1	VWP				NOTE 4
3115	ELEVATOR #2	VWP-2				NOTE 4

FINISH REMARKS

1. SEE FINISH PLANS & ENLARGED FLOOR PATTERN DETAILS FOR FINISH LOCATIONS.
2. SEE REFLECTED CEILING PLANS FOR FINISH LOCATIONS & HEIGHTS.
3. SEE TOILET ELEVATIONS & FINISH PLANS FOR WALL FINISH LOCATIONS.
4. SEE FINISH LEGEND FOR ELEVATOR FINISH LOCATIONS.
5. MANUAL WINDOW SHADES TO BE PROVIDED AT ALL EXTERIOR WINDOW LOCATIONS U.N.O.
6. MOTORIZED WINDOW SHADES TO BE PROVIDED AT EXTERIOR WINDOWS.

INTERIOR FINISH LEGEND

CEILING

ACOUSTICAL CEILING TILE

SA-1:
MANUFACTURER: ARMSTRONG
SYSTEM: CALLA
TYPE: SQUARE LAY-IN TEGULAR
COLOR: WHITE
TEXTURE: SMOOTH
SIZE: 2 X 4
SUSPENSION SYSTEM: PRELUDE 15/16" GRID

SA-2:
MANUFACTURER: ARMSTRONG
SYSTEM: CALLA
TYPE: SQUARE LAY-IN TEGULAR
COLOR: WHITE
TEXTURE: SMOOTH
SIZE: 2 X 2
SUSPENSION SYSTEM: PRELUDE 15/16" GRID

WOOD CEILING

WDC:
MANUFACTURER: ARMSTRONG
PRODUCT: WOODWORKS GRILLE 7266 W/ BACKER
SLAT SIZE: 5/8" W X 2 1/4" H
COLOR: LIGHT CHERRY W/ BLACK BACKER
SUSPENSION SYSTEM: PRELUDE XL HEAVY DUTY SUSPENSION SYSTEM IN BLACK
NOTE: 8 SLATS/PANEL - TO BE INSTALLED W/ BIOACOUSTIC INFILL PANEL 5823

FLOORS

CARPET

CPT-1:
MANUFACTURER: MILLIKEN
PRODUCT TYPE: CARPET TILE
COLLECTION: MORAINE
PATTERN: EXPLORER
COLOR: MEASURE W/ ORANGE
PRODUCT NUMBER: EXR252-133-6
SIZE: 19.7" X 19.7"
THICKNESS: 7.9 MM
INSTALLATION: ASHLAR

CPT-2:
MANUFACTURER: MILLIKEN
PRODUCT TYPE: CARPET TILE
COLLECTION: MORAINE
PATTERN: RELIEF
COLOR: BREAKLINE W/ ORANGE
PRODUCT NUMBER: REF252-133-4
SIZE: 19.7" X 19.7"
THICKNESS: 7.9 MM
INSTALLATION: ASHLAR

CPT-3:
MANUFACTURER: MILLIKEN
PRODUCT TYPE: CARPET TILE
COLLECTION: MORAINE
PATTERN: RELIEF
COLOR: MEASURE W/ BLACK
PRODUCT NUMBER: REF133-133-6
SIZE: 19.7" X 19.7"
THICKNESS: 7.9 MM
INSTALLATION: ASHLAR

CPT-4:
MANUFACTURER: MILLIKEN
PRODUCT TYPE: CARPET TILE
COLLECTION: MAJOR FREQUENCY: ONE
PATTERN: DISTORTION
COLOR: CLAMOR
PRODUCT NUMBER: DTN190-79-152
SIZE: 9.85" X 39.4"
THICKNESS: 7.9
INSTALLATION: VERTICAL ASHLAR

PORCELAIN TILE

PTF-1:
MANUFACTURER: TRINITY TILE
STYLE: EUROSTONE
COLOR SELECTION: LUMIERE
SIZE: 24" X 24"
THICKNESS: 8 MM
INSTALLATION: RUNNING BOND WITH 3/16 GROUT JOINT
GROUT:

PTF-2:
MANUFACTURER: TRINITY TILE
STYLE: IDEA
COLOR: DARK STRIPES
SIZE: 12" X 24"
THICKNESS: 9 MM
INSTALLATION: RUNNING BOND WITH 3/16 GROUT JOINT
GROUT: G-1

PTF-3:
MANUFACTURER: TRINITY TILE
SERIES: UNGLAZED MOSAIC
COLOR: TAUPE
SIZE: 2 X 2 MOSAIC
FINISH: MATTE
GROUT: G-1

POURED EPOXY TERRAZZO

TZ:
MANUFACTURER: NATIONAL TERRAZZO & MOSAIC ASSOCIATION
PRODUCT: EPOXY'II
COLOR: EP-1-49
ACCESSORIES: STAINLESS AND/OR ZINC DIVIDER STRIPS

RUBBER FLOORING

RF-1:
MANUFACTURER: NORA
PRODUCT: NORAPLAN LONA
COLOR NUMBER: 6902
SIZE: 48" ROLL
THICKNESS: 3.0 MM
HEAT WELDING ROD: COLOR 2457 6017

RF-2:
MANUFACTURER: NORA
PRODUCT: NORAPLAN LONA
COLOR NUMBER: 6923
SIZE: 48" ROLL
THICKNESS: 3.0 MM
HEAT WELDING ROD:COLOR 0597

RUBBER SPORTS FLOOR

RSF:
MANUFACTURER: PLITEQ
PRODUCT: GENIEMAT FIT70
COLOR: TBD
THICKNESS: 70MM
NOTE: MANUFACTURER TO PROVIDE RAMPS & TRANSITION ACCESSORIES

VINYL TILE

VT-1:
MANUFACTURER: TREAD COLLECTIVE - AVA
PRODUCT: SNSE
COLOR: TITANIUM
PRODUCT NUMBER: FS015
SIZE: 12" X 24"
THICKNESS: 2.5 MM
INSTALLATION: 1/3 RUNNING BOND

VT-2:
MANUFACTURER: TREAD COLLECTIVE - AVA
PRODUCT: SNSE
COLOR: TANGERINE
PRODUCT NUMBER: FS002
SIZE: 12" X 24"
THICKNESS: 2.5 MM
INSTALLATION: 1/3 RUNNING BOND

VINYL COMPOSITION TILE

VCT:
MANUFACTURER: ARMSTRONG
SERIES: STRIATIONS BBT
COLOR: STEEL
SIZE: 12" X 24"
THICKNESS: 3.2 MM
INSTALLATION: 1/3 RUNNING BOND

VINYL WOOD PLANK

VWP-1:
MANUFACTURER: TREAD COLLECTIVE - SHANNON SPECIALTY FLOORS
PRODUCT: TEKNONFLOR
COLLECTION: RARE PLANK HDP
COLOR: EBONY 8901SRP
SIZE: 7" X 47"
THICKNESS: 3 MM

VWP-2:
MANUFACTURER: TANDUS CENTIVA
COLLECTION: FAUX BOIS
SERIES: CONTOUR
COLOR: NARANJA #0971
SIZE: 6" X 36"
THICKNESS: 3 MM
INSTALLATION: 1/4 RUNNING BOND

MEDICAL SHEET VINYL

MSV:
MANUFACTURER: TREAD COLLECTIVE - SHANNON SPECIALTY FLOORS
PRODUCT: TEKNONFLOR
COLLECTION: FORESTSCAPES HDP
COLOR: RAVEN 8073
ROLL SIZE: 6' W x 75' L
THICKNESS: 2.3 MM

RUBBER STAIR TREADS, NOSING & RISER

ST:
MANUFACTURER: NORA
PRODUCT: NORAMENT GRANO STAIRTREAD, RISER & NOSING
COLOR: BLACK PEPPER 5304

WALLS

PORCELAIN TILE

PTW:
MANUFACTURER: TRINITY
STYLE: EUROSTONE
COLOR: FUME
SIZE: 12" X 24"
GROUT: G-1
INSTALLATION: HORIZONTAL RUNNING BOND W/ 3/16 GROUT JOINT

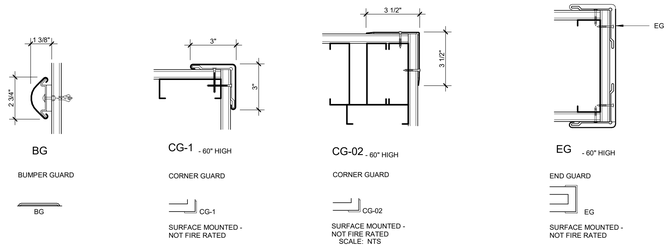
ACCENT TILE

AT-1:
MANUFACTURER: CROSSVILLE
SERIES: GLASS BOX
COLOR: ORANGE SIZZLE
SIZE: 2 X 4 BRICK MOSAIC
PRODUCT NUMBER: G063/.10204
THICKNESS: 1/4"
FINISH: GLASS
GROUT: G-1

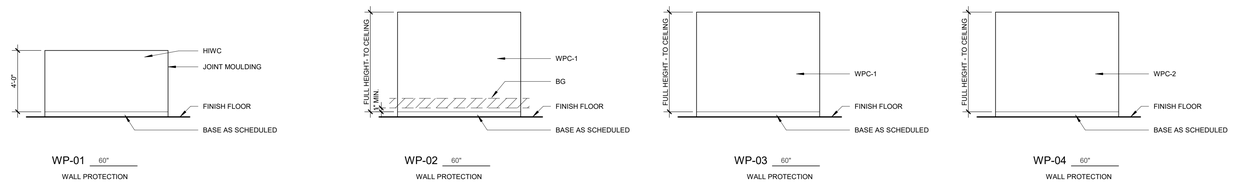
AT-

WALL AND CORNER GUARD SCHEDULE

SCALE: 3" = 1' - 0"

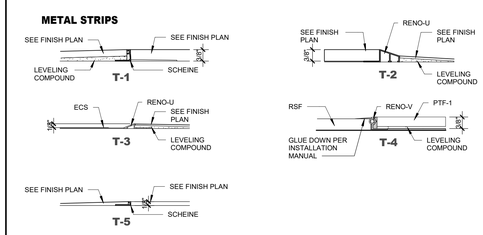


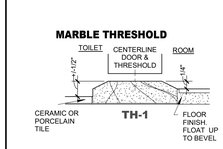
WALL AND CORNER GUARD SCHEDULE



FLOOR TRANSITIONS

SCALE: HALF





T-1:
- TZ-PTF
- TZ-CPT
- PTF-VT
- PTF-VCT
- CPT-VT
- CPT-VCT
- CPT-PTF
- CPT-MSV
- CPT-VWP
- PTF-MSV
- PTF-RF

T-2:
- TZ-VCT
- CPT-ECS
- PTF-ECS
- TZ-ECS
- TZ-VWP
- TZ-VT
- TZ-VWP
- TZ-VT

T-3:
- VT-ECS
- MSV-ECS
- RF-ECS

T-4:
- RSF-PTF

T-5:
- RF-VT
- VCT-VT
- MSV-VT
- VCT-VWP
- VT-VWP

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CLIENT:

COLLEGE OF Osteopathic Medicine AT THE CHEROKEE NATION

TAHLEQUAH, OKLAHOMA

KEY PLAN:

PROJECT PHASE:

95% CONSTRUCTION DOCUMENTS

REVISIONS

#	DATE	DESCRIPTION

DATE:	JOB NUMBER:
07-26-19	17-13

SHEET NUMBER:

A8.01

WALL PROTECTION, TRANSITIONS & THRESHOLDS

FINISH MATERIALS LEGEND

AT	ACCENT TILE	PTF	PORCELAIN FLOOR TILE
BG	BUMPER GUARD	PTW	PORCELAIN WALL TILE
CG	CORNER GUARD	RB	RUBBER BASE
CPT	CARPET	RF	RUBBER FLOOR
EG	END GUARD	RSF	RUBBER SPORTS FLOOR
EM	ENTRY MAT	QZ	QUARTZ
ECS	EXPOSED CONCRETE - SEALED	SA	SUSPENDED ACCOUSTIC
G	GROUT	TP	TOILET PARTITION
GYP	GYPSUM BOARD	TZ	TERRAZZO
HIWC	HIGH IMPACT WALL COVERING	VT	VINYL TILE
HM	HOLLOW METAL	WC	WALL COVERING
IB	INTEGRAL BASE	VWP	VINYL WOOD PLANK
MSV	MEDICAL SHEET VINYL	WD	WOOD DOOR
P	PAINT	WP	WALL PROTECTION
PL	PLASTIC LAMINATE	WPC	WALL PROTECTION COVERING
PTB	PORCELAIN TILE BASE	WPS	WOOD PANEL SYSTEM

FLOOR PATTERN LEGEND

VT-1	VINYL TILE
VT-2	VINYL TILE
RF-1	RUBBER FLOORING
RF-2	RUBBER FLOORING
VWP	VINYL WOOD PLANK
CPT-1	CARPET TILE
CPT-2	CARPET TILE
CPT-3	CARPET TILE
CPT-4	CARPET TILE
RSF	RUBBER SPORTS FLOOR
VCT	VINYL COMPOSITION TILE
ECS	EXPOSED CONCRETE - SEALED
PTF-1	PORCELAIN FLOOR TILE
PTF-2	PORCELAIN FLOOR TILE
PTF-3	PORCELAIN FLOOR TILE
MSV	MEDICAL SHEET VINYL
TZ	TERRAZZO

THRESHOLD & TRANSITION LEGEND

TH1	METAL THRESHOLD
TH2	MARBLE THRESHOLD
TH3	METAL TRANSITION
T1	METAL TRANSITION
T2	METAL TRANSITIONN
T3	RUBBER TRANSITION
T4	VINYL TRANSITION
T5	METAL TRANSITION
T6	VINYL TRANSITION
T7	RUBBER TRANSITION

FINISH TAG LEGEND

ROOM NAME → **ROOM**
ROOM NUMBER → 100
FLOOR FINISH → CPTX
BASE FINISH → RBX
TYP WALL FINISH → PXX
CEILING → ACT
REMARKS → 1

REFER TO INTERIOR FINISH LEGEND FOR DEFINITION OF MATERIAL DESIGNATIONS

FINISH TAG REMARKS

1. SEE FINISH PLANS & ENLARGED FLOOR PATTERN DETAILS FOR FINISH LOCATIONS.
2. SEE REFLECTED CEILING PLANS FOR FINISH LOCATIONS & HEIGHTS.
3. SEE TOILET ELEVATIONS & FINISH PLANS FOR WALL FINISH LOCATIONS.
4. SEE FINISH LEGEND FOR ELEVATOR FINISH LOCATIONS.

GENERAL NOTES - FINISH PLAN

1. CORNER GUARDS AT ALL OUTSIDE CORNERS WITHIN THE PLAN.
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5. REFER TO SHEET A1.60 - A1.65 TOILET AND SHOWER PLANS / ELEVATIONS / ACCESSORIES.
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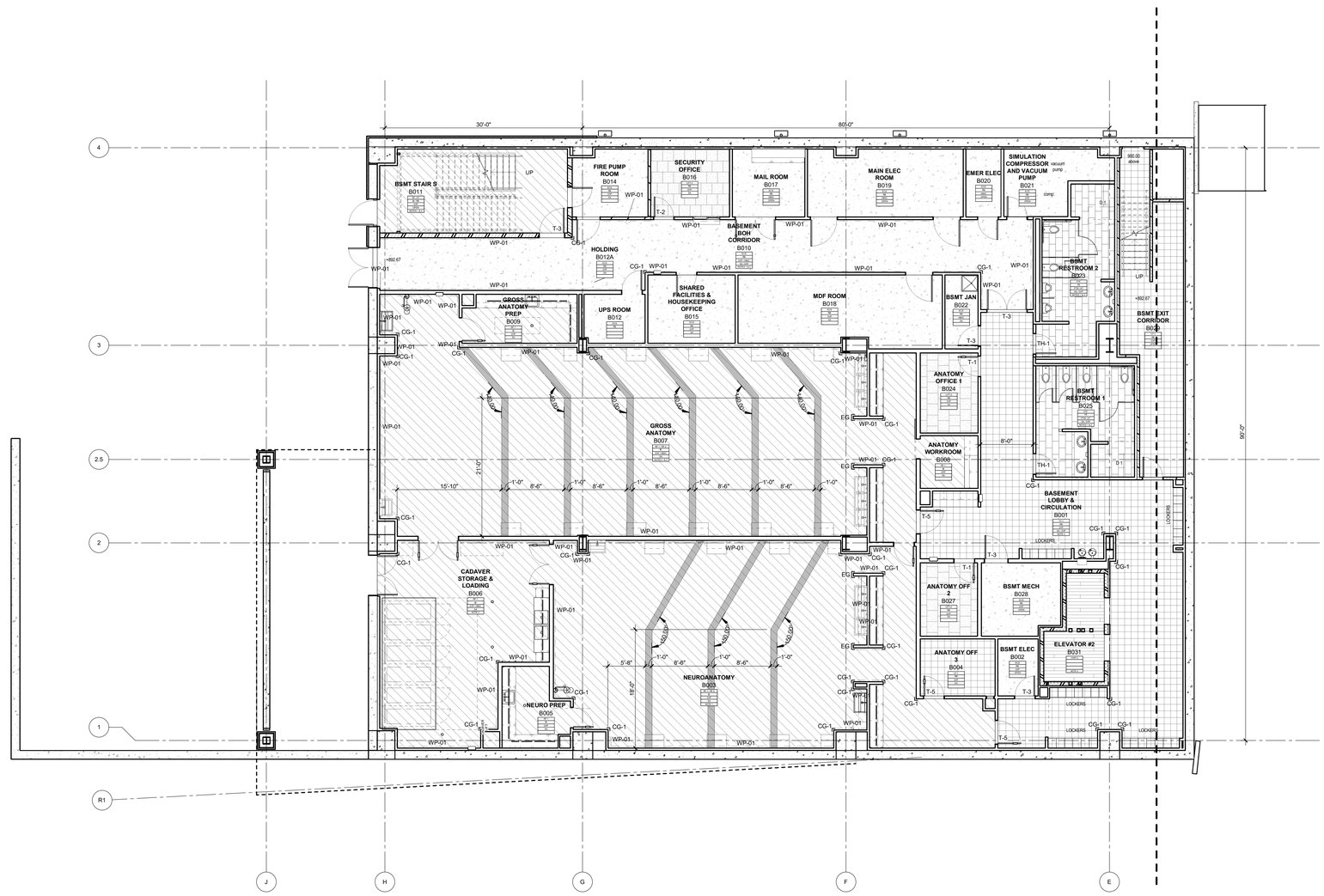


PLAN NORTH
TRUE NORTH

01 OVERALL FINISH PLAN - BASEMENT LEVEL
1/8" = 1'-0"

James R. Childers Architect, Inc.
45 South 4th Street
Fort Smith, AR 72901
479-783-2480
www.childersarchitect.com

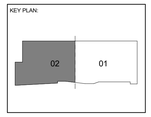
PROFESSIONAL SEAL:

CONSULTANT LOGO:

CLIENT:

COLLEGE OF Osteopathic Medicine AT THE CHEROKEE NATION
TAHLEQUAH, OKLAHOMA

KEY PLAN:



PROJECT PHASE:
95% CONSTRUCTION DOCUMENTS

REVISIONS

#	DATE	DESCRIPTION

DATE:	JOB NUMBER:
07-26-19	17-13

SHEET NUMBER:
A8.02

FINISH PLAN
BASEMENT LEVEL
SECTOR 02

FINISH MATERIALS LEGEND

AT	ACCENT TILE	PTF	PORCELAIN FLOOR TILE
BG	BUMPER GUARD	PTW	PORCELAIN WALL TILE
CG	CORNER GUARD	RB	RUBBER BASE
CPT	CARPET	RF	RUBBER FLOOR
EG	END GUARD	RSF	RUBBER SPORTS FLOOR
EM	ENTRY MAT	QZ	QUARTZ
ECS	EXPOSED CONCRETE - SEALED	SA	SUSPENDED ACCOUSTIC
G	GROUT	TP	TOILET PARTITION
GYP	GYPSUM BOARD	TZ	TERRAZZO
HIWC	HIGH IMPACT WALL COVERING	VT	VINYL TILE
HM	HOLLOW METAL	WC	WALL COVERING
IB	INTEGRAL BASE	VWP	VINYL WOOD PLANK
MSV	MEDICAL SHEET VINYL	WD	WOOD DOOR
P	PAINT	WP	WALL PROTECTION
PL	PLASTIC LAMINATE	WPC	WALL PROTECTION COVERING
PTB	PORCELAIN TILE BASE	WPS	WOOD PANEL SYSTEM

FLOOR PATTERN LEGEND

VT-1	VINYL TILE
VT-2	VINYL TILE
RF-1	RUBBER FLOORING
RF-2	RUBBER FLOORING
VWP	VINYL WOOD PLANK
CPT-1	CARPET TILE
CPT-2	CARPET TILE
CPT-3	CARPET TILE
CPT-4	CARPET TILE
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VCT	VINYL COMPOSITION TILE
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PTF-2	PORCELAIN FLOOR TILE
PTF-3	PORCELAIN FLOOR TILE
MSV	MEDICAL SHEET VINYL
TZ	TERRAZO

THRESHOLD & TRANSITION LEGEND

TH1	METAL THRESHOLD
TH2	MARBLE THRESHOLD
TH3	METAL TRANSITION
T1	METAL TRANSITION
T2	METAL TRANSITIONN
T3	RUBBER TRANSITION
T4	VINYL TRANSITIONN
T5	METAL TRANSITION
T6	VINYL TRANSITION
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FINISH TAG LEGEND

ROOM NAME — **ROOM**
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CEILING — ACT
REMARKS — 1

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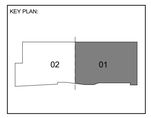

PROJECT PHASE:
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REVISIONS

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DATE:	JOB NUMBER:
07-26-19	17-13

SHEET NUMBER:
A8.11

FINISH PLAN LEVEL 01 SECTOR 01

FINISH MATERIALS LEGEND

AT	ACCENT TILE	PTF	PORCELAIN FLOOR TILE
BG	BUMPER GUARD	PTW	PORCELAIN WALL TILE
CG	CORNER GUARD	RB	RUBBER BASE
CPT	CARPET	RF	RUBBER FLOOR
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MSV	MEDICAL SHEET VINYL	WD	WOOD DOOR
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T4	VINYL TRANSITION
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REMARKS → 1

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TRUE NORTH

01 FINISH PLAN - LEVEL 01 SECTOR 02
1/8" = 1'-0"

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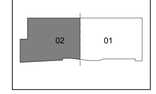
COLLEGE OF Osteopathic Medicine AT THE CHEROKEE NATION
TAHLEQUAH, OKLAHOMA

KEY PLAN:



PROJECT PHASE:
95% CONSTRUCTION DOCUMENTS

REVISIONS

#	DATE	DESCRIPTION

DATE:	JOB NUMBER:
07-26-19	17-13

SHEET NUMBER:
A8.12

FINISH PLAN LEVEL 01 SECTOR 02

FINISH MATERIALS LEGEND

AT	ACCENT TILE	PTF	PORCELAIN FLOOR TILE
BG	BUMPER GUARD	PTW	PORCELAIN WALL TILE
CG	CORNER GUARD	RB	RUBBER BASE
CPT	CARPET	RF	RUBBER FLOOR
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FLOOR PATTERN LEGEND

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TZ	TERRAZZO

THRESHOLD & TRANSITION LEGEND

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T3	RUBBER TRANSITION
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T5	METAL TRANSITION
T6	VINYL TRANSITION
T7	RUBBER TRANSITION

FINISH TAG LEGEND

ROOM NAME — **ROOM**
ROOM NUMBER — 100
FLOOR FINISH — CPTX
BASE FINISH — RBX
TYP WALL FINISH — PXX
CEILING — ACT
REMARKS — 1

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GENERAL NOTES - FINISH PLAN

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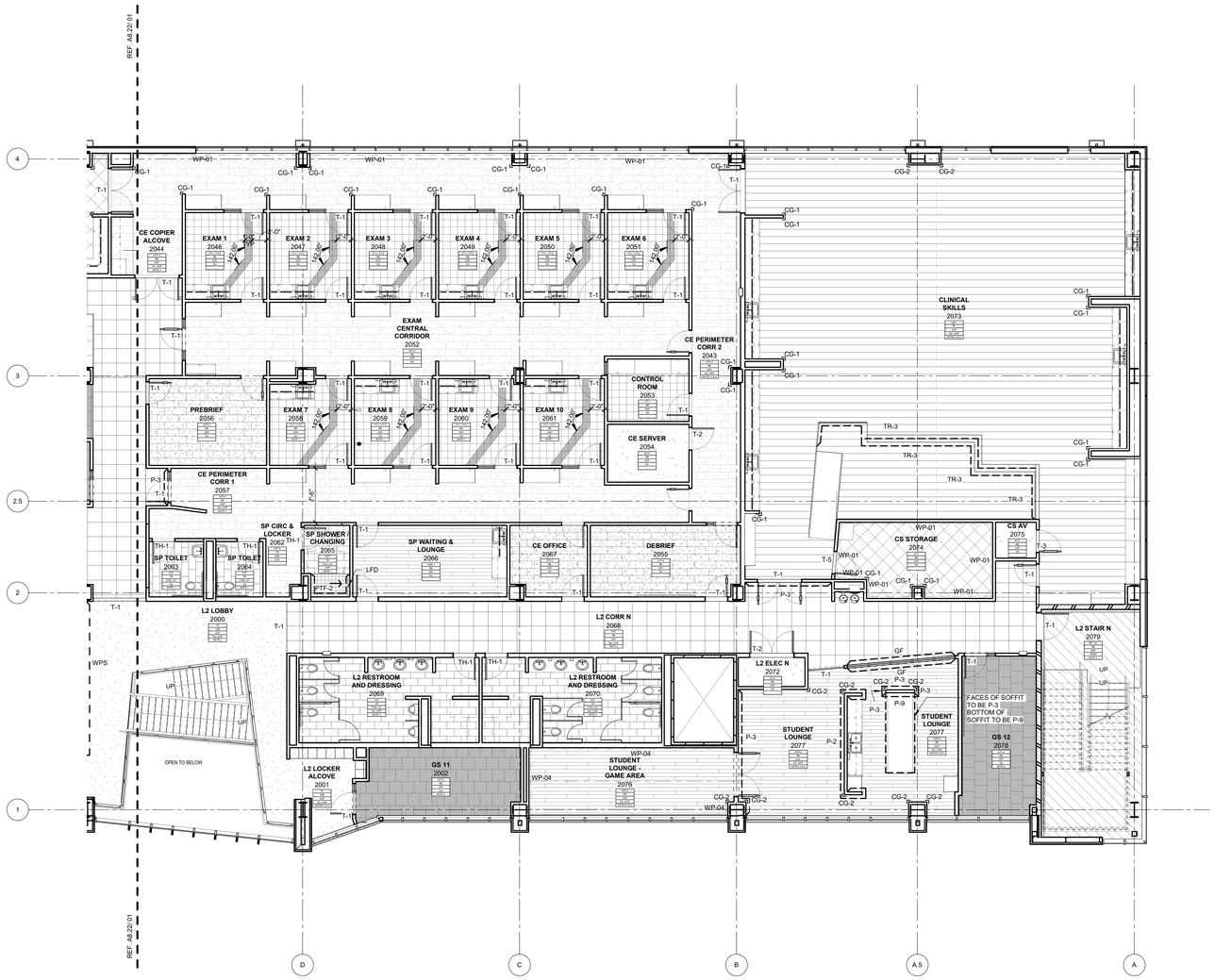

PLAN NORTH
TRUE NORTH

01 FINISH PLAN - LEVEL 02 SECTOR 01
1/8" = 1'-0"

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PROFESSIONAL SEAL:

CONSULTANT LOGO:

CLIENT:

COLLEGE OF Osteopathic Medicine AT THE CHEROKEE NATION

TAHLEQUAH, OKLAHOMA

KEY PLAN:

02 | 01

PROJECT PHASE:

95% CONSTRUCTION DOCUMENTS

REVISIONS

#	DATE	DESCRIPTION

DATE:	JOB NUMBER:
07-26-19	17-13

SHEET NUMBER:

A8.21

FINISH PLAN LEVEL 02 SECTOR 01

FINISH MATERIALS LEGEND

AT	ACCENT TILE	PTF	PORCELAIN FLOOR TILE
BG	BUMPER GUARD	PTW	PORCELAIN WALL TILE
CG	CORNER GUARD	RB	RUBBER BASE
CPT	CARPET	RF	RUBBER FLOOR
EG	END GUARD	RSF	RUBBER SPORTS FLOOR
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FLOOR PATTERN LEGEND

VT-1	VINYL TILE
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T4	VINYL TRANSITION
T5	METAL TRANSITION
T6	VINYL TRANSITION
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FINISH TAG LEGEND

ROOM NAME — **ROOM**
ROOM NUMBER — 100
FLOOR FINISH — CPTX
BASE FINISH — RBX
TYP WALL FINISH — PXX
CEILING — ACT
REMARKS — 1

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REVISIONS:

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DATE:	JOB NUMBER:
07-26-19	17-13

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FINISH PLAN LEVEL 02 SECTOR 02

FINISH MATERIALS LEGEND

AT	ACCENT TILE	PTF	PORCELAIN FLOOR TILE
BG	BUMPER GUARD	PTW	PORCELAIN WALL TILE
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2. 2" X 2" STAINLESS STEEL CORNER GUARDS USED IN ALL PUBLIC CORRIDORS / SPACES.
3. PLASTIC CORNER GUARDS USED IN CLINICAL / SIMULATION / PATIENT / STAFF AREAS U.N.O.
4. SHEET PROTECTION IN HOUSEKEEPING ROOMS & OTHER SERVICE AREAS WHERE CARTS WILL BE USED.
5. REFER TO SHEET A1.60 - A1.65 TOILET AND SHOWER PLANS / ELEVATIONS / ACCESSORIES.
6. REFER TO INTERIOR FINISH LEGEND FOR THRESHOLD & TRANSITION DETAILS.
7. COORDINATE ALL FLOOR DRAINS, SINKS & CLEAN OUTS W/ PLUMBING - IF DISCREPANCIES OCCUR NOTIFY ARCHITECT.
8. WELDING ROD AT WELDED SEAMS SHALL MATCH THE DARKER OF THE COLORS AT SEAMS THAT DIVIDE TWO COLORS U.N.O.
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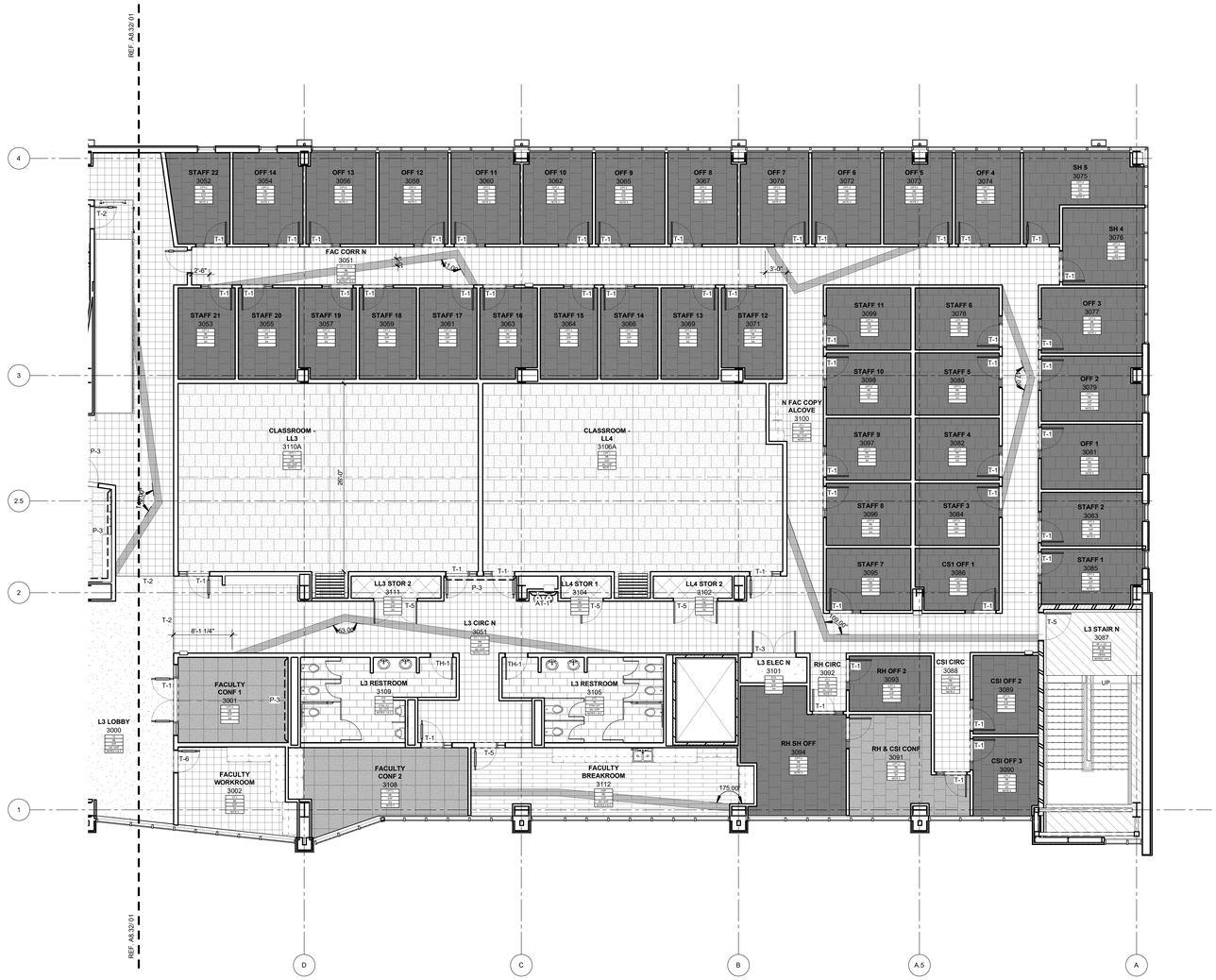

PLAN NORTH
TRUE NORTH

01 FINISH PLAN - LEVEL 03 SECTOR 01
1/8" = 1'-0"

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45 South 4th Street
Fort Smith, AR 72901
479-783-2480
www.childersarchitect.com

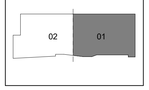
PROFESSIONAL SEAL:

CONSULTANT LOGO:

CLIENT:

COLLEGE OF Osteopathic Medicine AT THE CHEROKEE NATION
TAHLEQUAH, OKLAHOMA

KEY PLAN:



PROJECT PHASE:
95% CONSTRUCTION DOCUMENTS

REVISIONS:

#	DATE	DESCRIPTION

DATE:	JOB NUMBER:
07-26-19	17-13

SHEET NUMBER:
A8.31

FINISH PLAN LEVEL 03 SECTOR 01

FINISH MATERIALS LEGEND

AT	ACCENT TILE	PTF	PORCELAIN FLOOR TILE
BG	BUMPER GUARD	PTW	PORCELAIN WALL TILE
CG	CORNER GUARD	RB	RUBBER BASE
CPT	CARPET	RF	RUBBER FLOOR
EG	END GUARD	RSF	RUBBER SPORTS FLOOR
EM	ENTRY MAT	QZ	QUARTZ
ECS	EXPOSED CONCRETE - SEALED	SA	SUSPENDED ACCOUSTIC
G	GROUT	TP	TOILET PARTITION
GYP	GYPSUM BOARD	TZ	TERRAZZO
HIWC	HIGH IMPACT WALL COVERING	VT	VINYL TILE
HM	HOLLOW METAL	WC	WALL COVERING
IB	INTEGRAL BASE	VWP	VINYL WOOD PLANK
MSV	MEDICAL SHEET VINYL	WD	WOOD DOOR
P	PAINT	WP	WALL PROTECTION
PL	PLASTIC LAMINATE	WPC	WALL PROTECTION COVERING
PTB	PORCELAIN TILE BASE	WPS	WOOD PANEL SYSTEM

FLOOR PATTERN LEGEND

VT-1	VINYL TILE
VT-2	VINYL TILE
RF-1	RUBBER FLOORING
RF-2	RUBBER FLOORING
VWP	VINYL WOOD PLANK
CPT-1	CARPET TILE
CPT-2	CARPET TILE
CPT-3	CARPET TILE
CPT-4	CARPET TILE
RSF	RUBBER SPORTS FLOOR
VCT	VINYL COMPOSITION TILE
ECS	EXPOSED CONCRETE - SEALED
PTF-1	PORCELAIN FLOOR TILE
PTF-2	PORCELAIN FLOOR TILE
PTF-3	PORCELAIN FLOOR TILE
MSV	MEDICAL SHEET VINYL
TZ	TERRAZZO

THRESHOLD & TRANSITION LEGEND

TH1	METAL THRESHOLD
TH2	MARBLE THRESHOLD
TH3	METAL TRANSITION
T1	METAL TRANSITION
T2	METAL TRANSITIONN
T3	RUBBER TRANSITION
T4	VINYL TRANSITION
T5	METAL TRANSITION
T6	VINYL TRANSITION
T7	RUBBER TRANSITION

FINISH TAG LEGEND

ROOM NAME	ROOM
ROOM NUMBER	100
FLOOR FINISH	CPTX
BASE FINISH	RBX
TYP WALL FINISH	PXX
CEILING	ACT
REMARKS	1

REFER TO INTERIOR FINISH LEGEND FOR DEFINITION OF MATERIAL DESIGNATIONS

FINISH TAG REMARKS

1. SEE FINISH PLANS & ENLARGED FLOOR PATTERN DETAILS FOR FINISH LOCATIONS.
2. SEE REFLECTED CEILING PLANS FOR FINISH LOCATIONS & HEIGHTS.
3. SEE TOILET ELEVATIONS & FINISH PLANS FOR WALL FINISH LOCATIONS.
4. SEE FINISH LEGEND FOR ELEVATOR FINISH LOCATIONS.

GENERAL NOTES - FINISH PLAN

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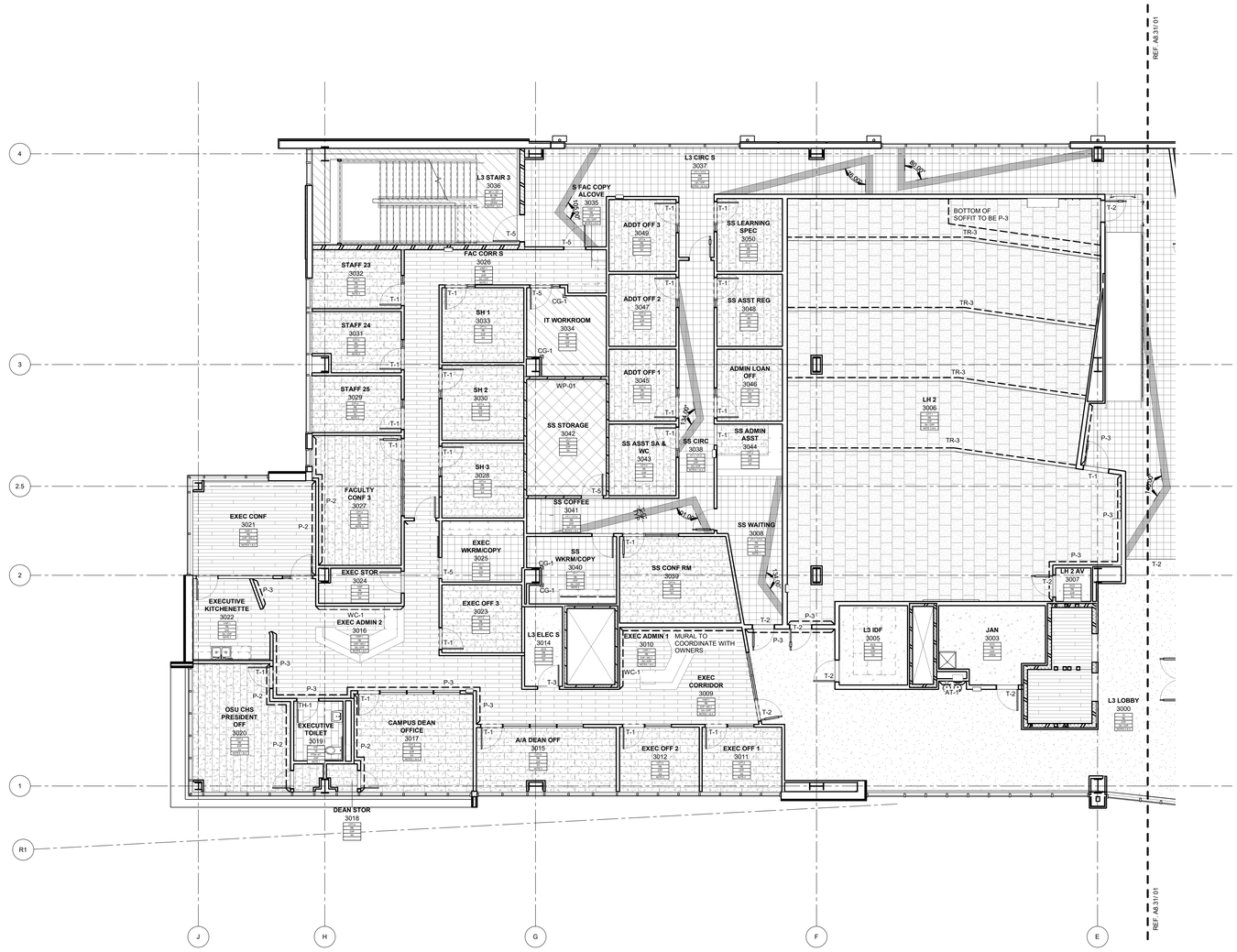

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01 FINISH PLAN - LEVEL 03 SECTOR 02

1/8" = 1'-0"

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TAHLEQUAH, OKLAHOMA

KEY PLAN:

02 01

PROJECT PHASE:

95% CONSTRUCTION DOCUMENTS

REVISIONS

#	DATE	DESCRIPTION

DATE: 07-26-19

JOB NUMBER: 17-13

SHEET NUMBER: A8.32

FINISH PLAN LEVEL 03 SECTOR 02

CEILING SYMBOLS

- GYPSUM BOARD CEILING
- 2 x 2 LAY-IN
- 2 x 4 LAY-IN
- SUPPLY AIR
- RETURN AIR
- EXHAUST AIR
- ACCESS PANEL
- LED TROFFER
- RECESSED LIGHT
- SUSPENDED LED LIGHT
- SUSPENDED LED LIGHT
- CONTROL JOINT
- EXIT SIGNS - HATCH INDICATES EXIT TEXT AND ARROW INDICATES DIRECTION
- SD SMOKE DETECTOR
- S SPEAKER
- FA FIRE ALARM / STROBE
- LINEAR DIFFUSERS
- PROJECTOR
- RECESSED LINEAR LED FIXTURE
- PENDANT LIGHT
- STRIP LIGHT
- RECESSED CAN

GENERAL NOTES - REFLECTED CEILING PLAN

1. ALL CEILINGS SHALL BE 9' - 0" ABOVE FINISHED FLOOR, U.N.O. (COORDINATE WITH OWNER-FURNISHED VENDOR DRAWINGS AND EQUIPMENT.
2. IN THE CASE OF MINOR DISCREPANCIES BETWEEN MEP & ARCHITECTURAL DOCUMENTS IN THE LOCATION OF CEILING MOUNTED COMPONENTS, THE ARCHITECTURAL REFLECTED CEILING PLAN SHALL GOVERN. IN THE CASE OF MAJOR DISCREPANCIES, THE ARCHITECT SHALL BE NOTIFIED AS SOON AS THE DISCREPANCY IS DISCOVERED PRIOR TO PROCEEDING WITH THE WORK.
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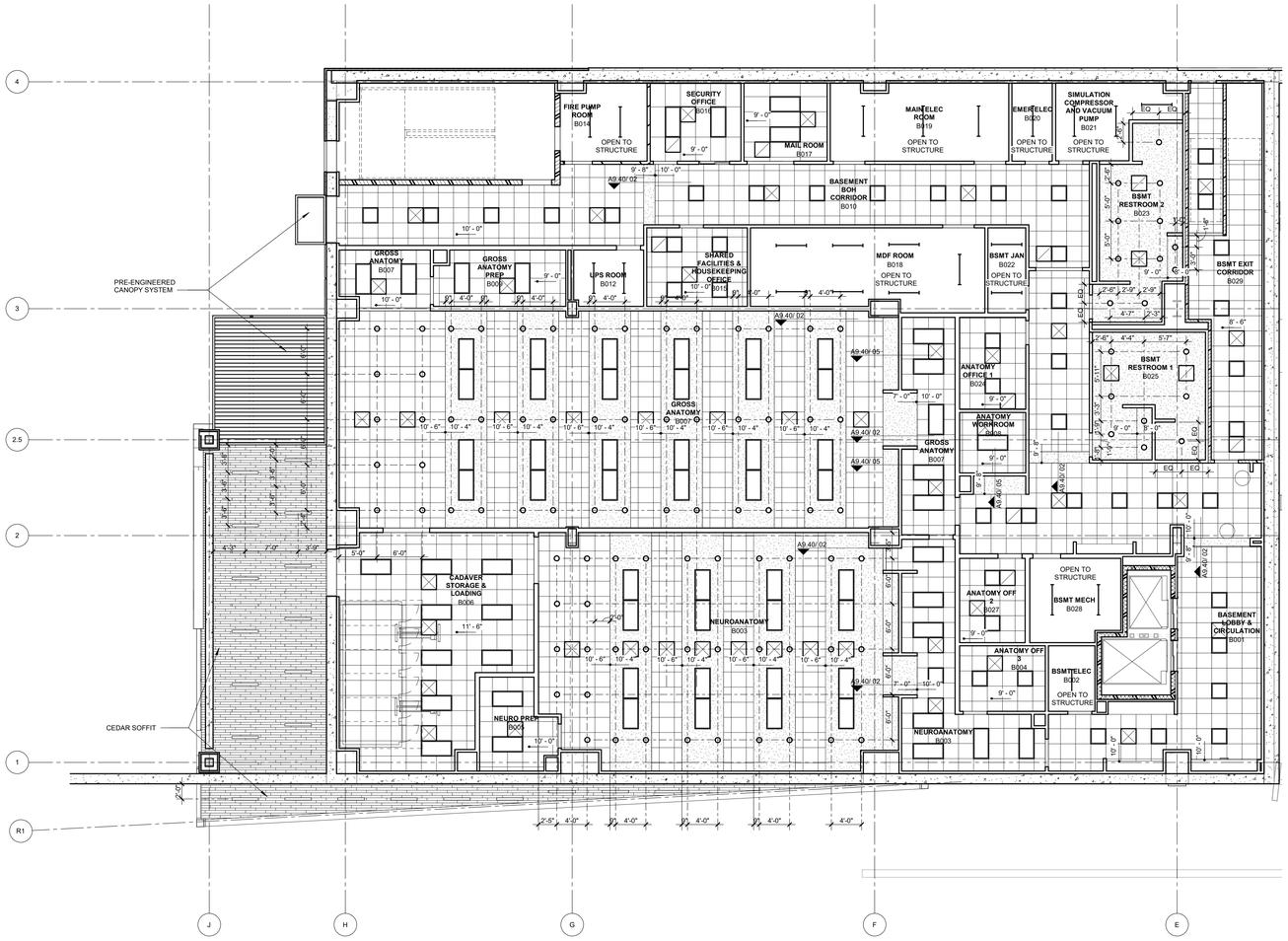

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01 CEILING PLAN BASEMENT LEVEL SECTOR 02

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TAHLEQUAH, OKLAHOMA

KEY PLAN:

02 01

PROJECT PHASE:

95% CONSTRUCTION DOCUMENTS

REVISIONS		
#	DATE:	DESCRIPTION:

DATE:	JOB NUMBER:
07-26-19	17-13

SHEET NUMBER:

A9.02

CEILING PLAN BASEMENT LEVEL SECTOR 02

CEILING SYMBOLS

- GYPSUM BOARD CEILING
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- 2 x 4 LAY-IN
- SUPPLY AIR
- RETURN AIR
- EXHAUST AIR
- ACCESS PANEL
- LED TROFFER
- RECESSED LIGHT
- SUSPENDED LED LIGHT
- SUSPENDED LED LIGHT
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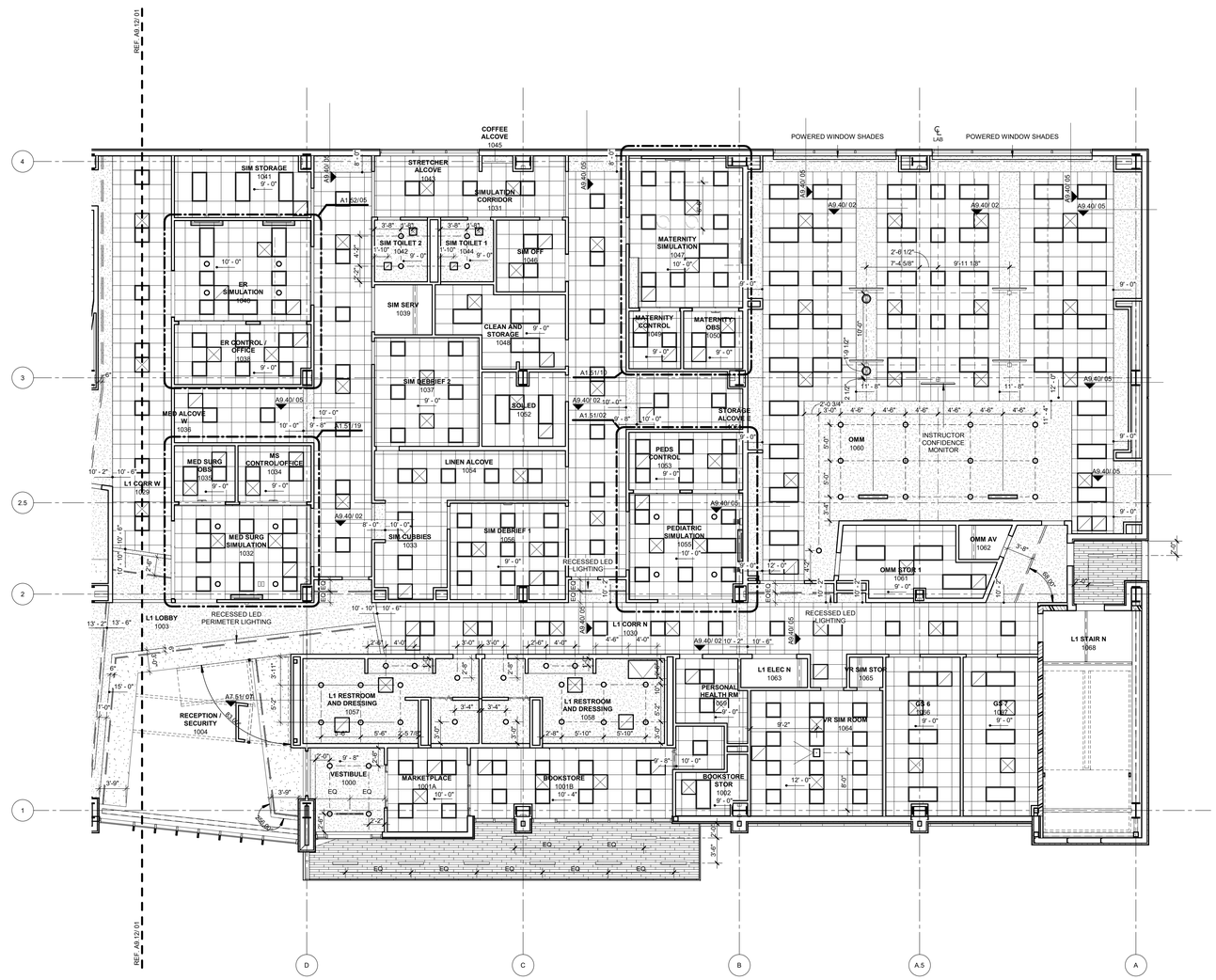

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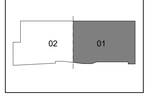

PROJECT PHASE:

95% CONSTRUCTION DOCUMENTS

REVISIONS		
#	DATE	DESCRIPTION

DATE:	JOB NUMBER:
07-26-19	17-13

SHEET NUMBER:

A9.11

CEILING PLAN LEVEL 01 SECTOR 01

CEILING SYMBOLS

- GYPSUM BOARD CEILING
- 2 x 2 LAY-IN
- 2 x 4 LAY-IN
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- RETURN AIR
- EXHAUST AIR
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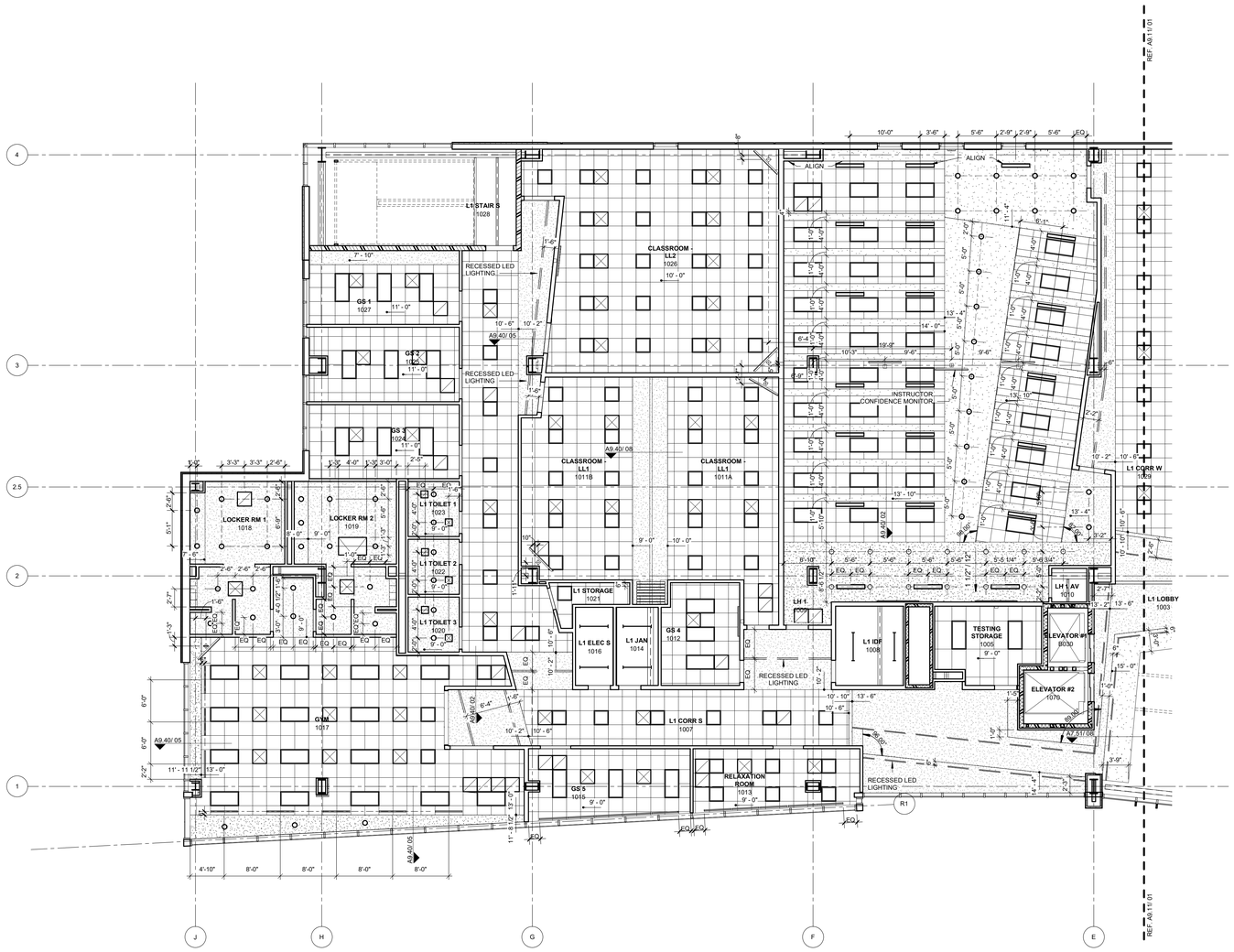

01 CEILING PLAN LEVEL 01 SECTOR 02

1/8" = 1'-0"

PLAN NORTH

TRUE NORTH

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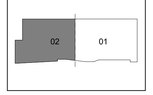

PROJECT PHASE:

95% CONSTRUCTION DOCUMENTS

REVISIONS

#	DATE	DESCRIPTION

DATE:	JOB NUMBER:
07-26-19	17-13

SHEET NUMBER:

A9.12

CEILING PLAN LEVEL 01 SECTOR 02

CEILING SYMBOLS

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- 2 x 4 LAY-IN
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- RETURN AIR
- EXHAUST AIR
- ACCESS PANEL
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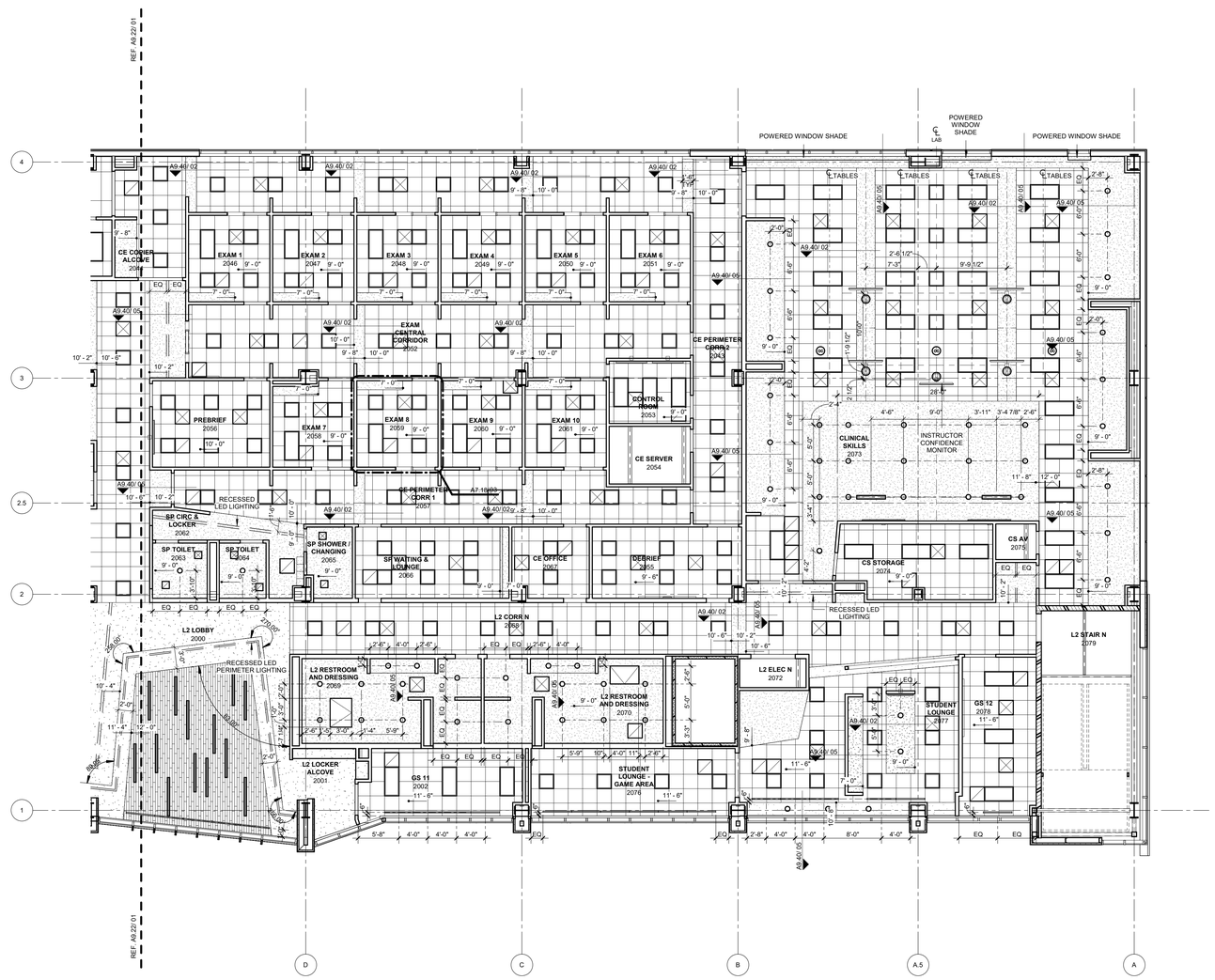

PLAN NORTH

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01 CEILING PLAN LEVEL 02 SECTOR 01

1/8" = 1'-0"

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TAHLEQUAH, OKLAHOMA

KEY PLAN:

02 01

PROJECT PHASE:

95% CONSTRUCTION DOCUMENTS

REVISIONS

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DATE:	JOB NUMBER:
07-26-19	17-13

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A9.21

CEILING PLAN LEVEL 02 SECTOR 01

CEILING SYMBOLS

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- 2 x 4 LAY-IN
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- RETURN AIR
- EXHAUST AIR
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- LED TROFFER
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1/8" = 1'-0"

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CEILING PLAN LEVEL 02 SECTOR 02

CEILING SYMBOLS

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- 2 x 4 LAY-IN
- SUPPLY AIR
- RETURN AIR
- EXHAUST AIR
- ACCESS PANEL
- LED TROFFER
- RECESSED LIGHT
- SUSPENDED LED LIGHT
- SUSPENDED LED LIGHT
- CONTROL JOINT
- EXIT SIGNS - HATCH INDICATES EXIT TEXT AND ARROW INDICATES DIRECTION
- SMOKE DETECTOR
- SPEAKER
- FIRE ALARM / STROBE
- LINEAR DIFFUSERS
- PROJECTOR
- RECESSED LINEAR LED FIXTURE
- PENDANT LIGHT
- STRIP LIGHT
- RECESSED CAN

GENERAL NOTES - REFLECTED CEILING PLAN

1. ALL CEILINGS SHALL BE 9' - 0" ABOVE FINISHED FLOOR, U.N.O. (COORDINATE WITH OWNER-FURNISHED VENDOR DRAWINGS AND EQUIPMENT.
2. IN THE CASE OF MINOR DISCREPANCIES BETWEEN MEP & ARCHITECTURAL DOCUMENTS IN THE LOCATION OF CEILING MOUNTED COMPONENTS, THE ARCHITECTURAL REFLECTED CEILING PLAN SHALL GOVERN. IN THE CASE OF MAJOR DISCREPANCIES, THE ARCHITECT SHALL BE NOTIFIED AS SOON AS THE DISCREPANCY IS DISCOVERED PRIOR TO PROCEEDING WITH THE WORK.
3. REFERENCE MECHANICAL & ELECTRICAL DRAWINGS FOR MOUNTING LOCATIONS OF ITEMS WHERE NO CEILING IS REQUIRED OF INDICATED.
4. LIGHTS, DIFFUSERS, EXIT SIGNS, SMOKE DETECTORS, SPEAKERS, STROBES AND MISCELLANEOUS DEVICES SHALL BE CENTERED IN THE CEILING TILE IN WHICH THEY OCCUR, U.N.O.
5. ALL CORRIDOR SPRINKLER HEADS SHALL BE ALIGNED IN THE SAME LOCATION PARALLEL TO THE WALL WITHIN EACH SPECIFIC CEILING CONSTRUCTION. ARCHITECTURALLY SIGNIFICANT SPRINKLER HEAD LOCATIONS MAY BE SHOWN ON REFLECTED CEILING PLAN FOR DESIGN INTENT ONLY.
6. ACCESS DOOR LOCATIONS IN GYPSUM BOARD CEILINGS ARE INDICATED ON RCP'S ONLY WHERE ARCHITECTURALLY SIGNIFICANT. REFERENCE SPECIFICATIONS & MEP DRAWINGS FOR OTHER ACCESS DOOR LOCATIONS.
7. EXIT SIGNS ARE SHOWN ON REFLECTED CEILING PLAN ONLY WHERE LOCATION IS ARCHITECTURAL SIGNIFICANT.
8. DIMENSIONS AT CUBICLE CURTAIN TRACKS ARE TO CENTER OF TRACK, TYP.
9. ALL CUBICLE CURTAIN TRACKS MUST CLEAR DOOR SWINGS BY 3' MINIMUM.

PLAN NORTH

TRUE NORTH

01 CEILING PLAN LEVEL 03 SECTOR 01

1/8" = 1'-0"

James R. Childers Architect, Inc.
45 South 4th Street
Fort Smith, AR 72901
479-783-2480
www.childersarchitect.com

PROFESSIONAL SEAL:

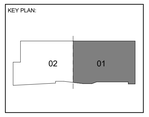
CONSULTANT LOGO:

CLIENT:

College of Osteopathic Medicine at the Cherokee Nation

TAHLEQUAH, OKLAHOMA

KEY PLAN:



PROJECT PHASE:

95% CONSTRUCTION DOCUMENTS

REVISIONS

#	DATE	DESCRIPTION

DATE: 07-26-19

JOB NUMBER: 17-13

SHEET NUMBER:

A9.31

CEILING PLAN LEVEL 03 SECTOR 01

CEILING SYMBOLS

- GYPSUM BOARD CEILING
- 2 x 2 LAY-IN
- 2 x 4 LAY-IN
- SUPPLY AIR
- RETURN AIR
- EXHAUST AIR
- ACCESS PANEL
- LED TROFFER
- RECESSED LIGHT
- SUSPENDED LED LIGHT
- SUSPENDED LED LIGHT
- CONTROL JOINT
- EXIT SIGNS - HATCH INDICATES EXIT TEXT AND ARROW INDICATES DIRECTION
- SD SMOKE DETECTOR
- S SPEAKER
- FA FIRE ALARM / STROBE
- LINEAR DIFFUSERS
- PROJECTOR
- RECESSED LINEAR LED FIXTURE
- PENDANT LIGHT
- STRIP LIGHT
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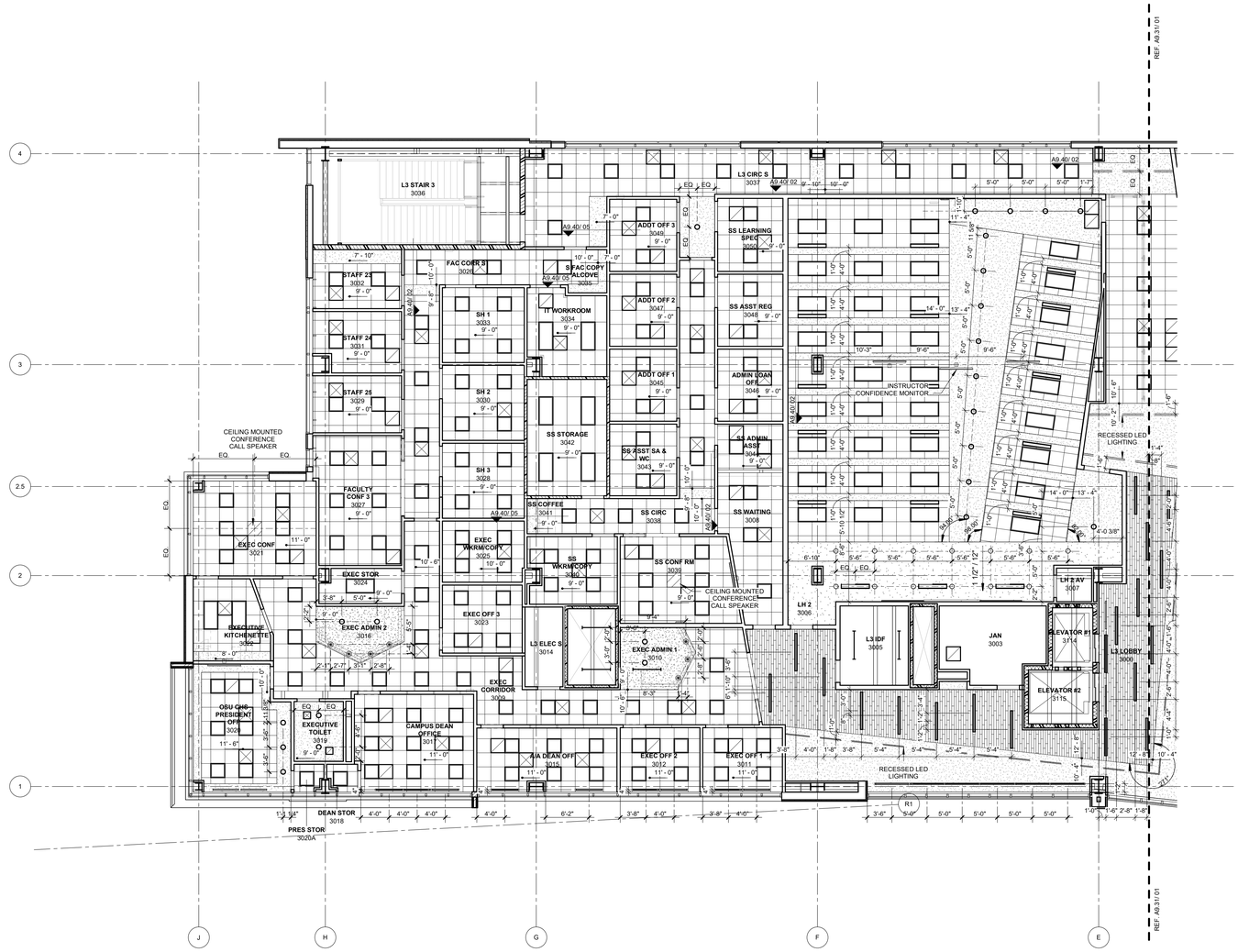

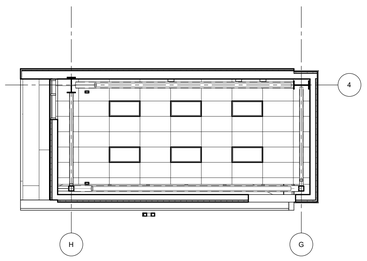

02 SOUTH STAIR TOWER RCP
1/8" = 1'-0"

PLAN NORTH
TRUE NORTH

01 CEILING PLAN LEVEL 03 SECTOR 02
1/8" = 1'-0"

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TAHLEQUAH, OKLAHOMA

KEY PLAN:

02 01

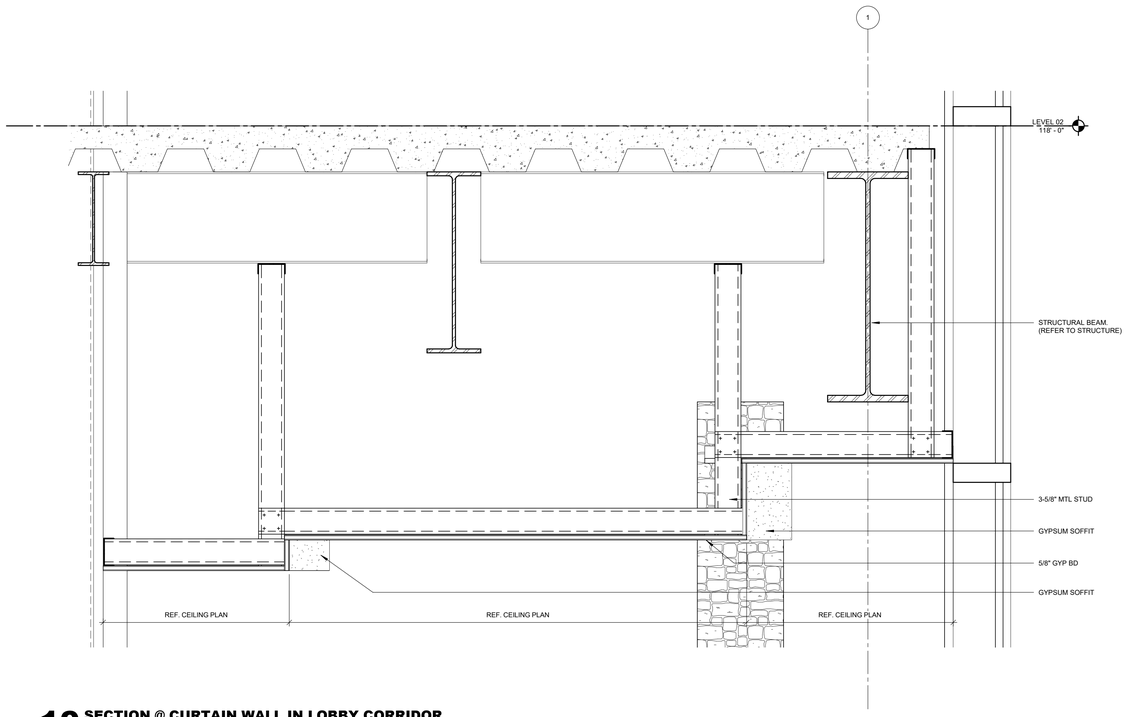
PROJECT PHASE:
95% CONSTRUCTION DOCUMENTS

REVISIONS

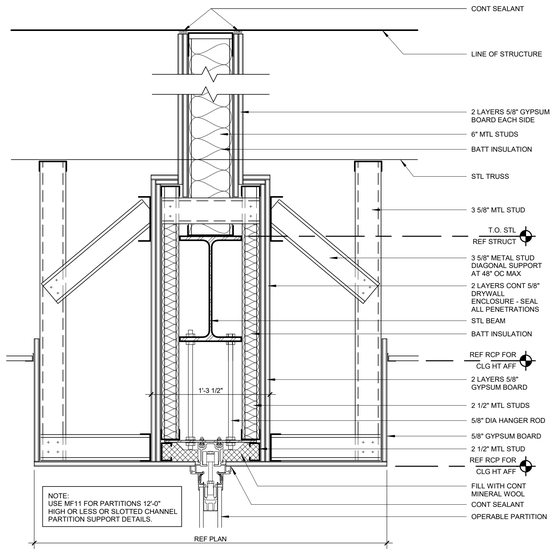
#	DATE	DESCRIPTION

DATE: 07-26-19
JOB NUMBER: 17-13
SHEET NUMBER: A9.32

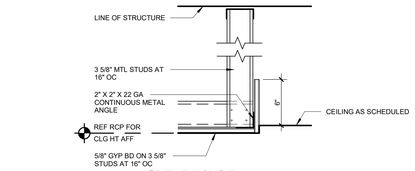
CEILING PLAN LEVEL 03 SECTOR 02



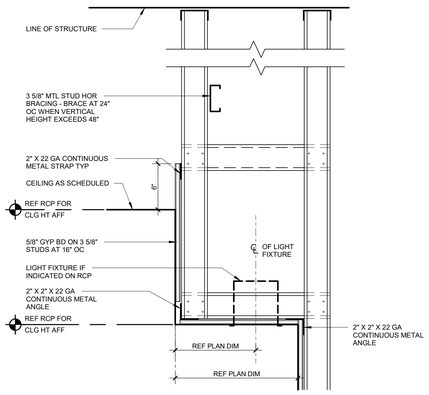
10 SECTION @ CURTAIN WALL IN LOBBY CORRIDOR
1 1/2" = 1'-0"



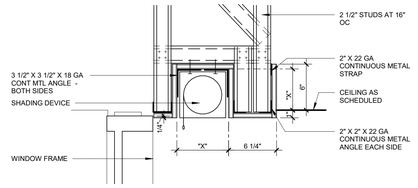
08 OPERABLE PARTITION HEAD DETAIL
1 1/2" = 1'-0"



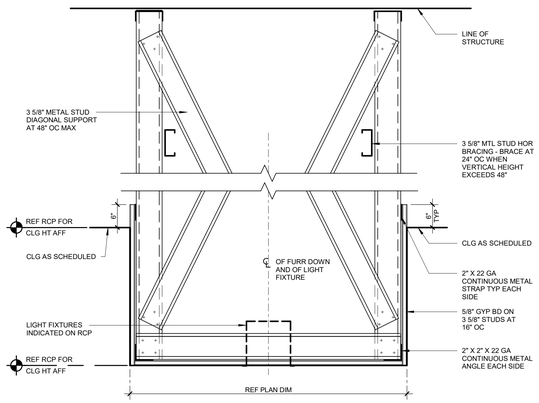
04 GYP BD/ACT TRANSITION DETAIL
1 1/2" = 1'-0"



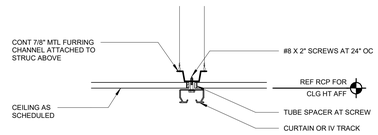
03 FURR DOWN DETAIL
1 1/2" = 1'-0"



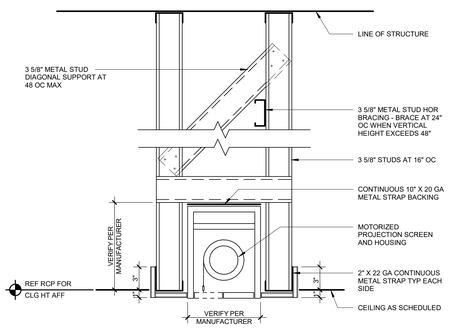
07 RECESSED WINDOW SHADING DEVICE
1 1/2" = 1'-0"



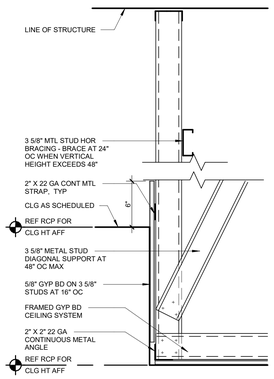
02 FURR DOWN DETAIL
1 1/2" = 1'-0"



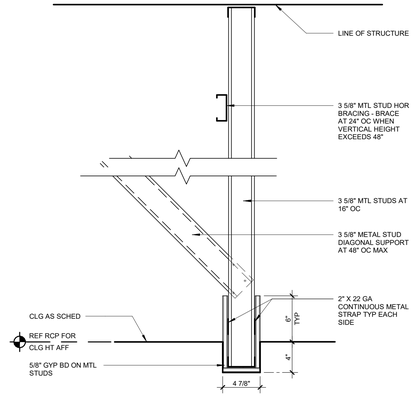
06 CURTAIN TRACK
1 1/2" = 1'-0"



09 PROJECTION SCREEN
1 1/2" = 1'-0"



05 SOFFIT DETAIL
1 1/2" = 1'-0"



01 FURR DOWN DETAIL
1 1/2" = 1'-0"

GENERAL NOTE

REFERENCE A2.00 AND A2.01 FOR PARTITION TYPES AND FRAMING INFORMATION.

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95% CONSTRUCTION DOCUMENTS

REVISIONS:

#	DATE	DESCRIPTION

DATE: 07-26-19
JOB NUMBER: 17-13
SHEET NUMBER: A9.40

CEILING DETAILS

SIGNAGE SCHEDULE

MARK	SIGN TYPE	VERBIAGE	REMARKS
SIGNAGE			
1005	D.2	TESTING STORAGE	
1009A	D.1	LECTURE HALL 1	
1009B	D.1	LECTURE HALL 1	
1009C	D.1	LECTURE HALL 1	
1011A	D.1	CLASSROOM/LEARNING LAB 1	
1011B	D.1	CLASSROOM/LEARNING LAB 1	
1012	D.1	GROUP STUDY	
1013	D.1	RELAXATION ROOM	MOUNT ON GLAZING
1014	D.2	JANITOR	
1015	D.1	GROUP STUDY	MOUNT ON GLAZING
1016	D.2	ELECTRICAL	
1018	E.2	MEN	
1019	E.3	WOMEN	
1020		RESTROOM	
1021	D.2	STORAGE	
1022		RESTROOM	
1023		RESTROOM	
1024	D.2	GROUP STUDY 3	
1025	D.2	GROUP STUDY 2	
1026A	D.1	CLASSROOM/LEARNING LAB 2	
1026B	D.1	CLASSROOM/LEARNING LAB 2	
1027	D.2	GROUP STUDY 1	
1028	F.1	SEE SIGNAGE ELEVATIONS	
1032	D.1	MED SURG SIMULAITON	
1034	D.1	MS CONTROL / OFFICE	
1035	D.1	MED SURG OBS	
1037A	D.1	SIMULATION DEBRIEF 2	
1037B	D.1	SIMULATION DEBRIEF 2	
1038	D.1	ER CONTROL / OFFICE	
1040	D.1	ER SIMULATION	
1041	D.2	STORAGE	
1042		RESTROOM	
1044		RESTROOM	
1046	D.1	OFFICE	
1047	D.1	MATERNITY SIMULATION	
1048	D.1	CLEAN & STORAGE	
1049	D.1	MATERNITY CONTROL	
1052	D.1	SOILED	
1053	D.1	PEDIATRIC CONTROL	
1055	D.1	PEDIATRIC SIMULATION	
1056A	D.1	SIMULATION DEBRIEF 1	
1056B	D.1	SIMULATION DEBRIEF 1	
1057	E.2	MEN	
1058	E.3	WOMEN	
1059	D.1	PERSONAL HEALTH ROOM	
1060A	D.1	OMM	
1060B	D.1	OMM	
1061	D.2	STORAGE	
1062	D.1	OMM AV	
1063	D.2	ELECTRICAL	
1064	D.1	VR SIMULATION	
1066	D.1	GROUP STUDY 6	
1067	D.1	GROUP STUDY 7	
2003	D.2	MECHANICAL	
2006A	D.2	LIBRARY	MOUNT ON GLAZING
2006B	D.1	LIBRARY	MOUNT ON GLAZING
2008	D.1	OFFICE	
2009	D.1	MEDIA STORAGE	
2010	D.2	REBOOT ROOM	MOUNT ON GLAZING
2011	D.1	STUDY CARREL 1	MOUNT ON GLAZING
2012	D.2	JANITOR	
2014	D.2	ELECTRICAL	
2015	D.1	STUDY CARREL 2	MOUNT ON GLAZING
2017	D.1	GROUP STUDY 8	MOUNT ON GLAZING
2018	D.1	STUDY CARREL 4	MOUNT ON GLAZING
2019	D.1	GROUP STUDY 8	MOUNT ON GLAZING
2020	D.1	STUDY CARREL 3	MOUNT ON GLAZING
2021	D.1	GROUP STUDY 8	MOUNT ON GLAZING
2022	D.1	STUDY CARREL 5	
2023	D.1	STUDY CARREL 9	MOUNT ON GLAZING
2024	D.1	STUDY CARREL 6	MOUNT ON GLAZING
2025	D.1	STUDY CARREL 7	MOUNT ON GLAZING
2026	D.1	STUDY CARREL 8	MOUNT ON GLAZING
2028	D.1	STUDY CARREL 10	MOUNT ON GLAZING
2029	D.1	ST STUDY 3	MOUNT ON GLAZING
2030	D.1	STUDY CARREL 11	MOUNT ON GLAZING
2031	D.1	ST STUDY 4	MOUNT ON GLAZING
2032	D.1	STUDY CARREL 12	MOUNT ON GLAZING
2033	D.1	ST STUDY 5	MOUNT ON GLAZING
2034		RESTROOM	
2035	D.1	ST STUDY 6	MOUNT ON GLAZING
2036	D.1	STUDY CARREL 13	MOUNT ON GLAZING
2037	D.1	ST STUDY 7	MOUNT ON GLAZING
2038	D.1	STUDY CARREL 14	MOUNT ON GLAZING
2039		RESTROOM	
2041	D.1	ST STUDY 1	MOUNT ON GLAZING
2042	D.2	ST STUDY 2	MOUNT ON GLAZING
2043	D.1	CLINICAL SKILLS	
2046A	D.1	EXAM	
2046B	D.1	EXAM	MOUNT ON GLAZING
2046C		SEE SIGNAGE ELEVATIONS	
2046D		SEE SIGNAGE ELEVATIONS	
2047A	D.1	EXAM	
2047B	D.1	EXAM	MOUNT ON GLAZING
2047C		SEE SIGNAGE ELEVATIONS	
2047D		SEE SIGNAGE ELEVATIONS	
2048A	D.1	EXAM	
2048B	D.1	EXAM	MOUNT ON GLAZING
2048C		SEE SIGNAGE ELEVATIONS	
2048D		SEE SIGNAGE ELEVATIONS	
2049A	D.1	EXAM	
2049B	D.1	EXAM	MOUNT ON GLAZING
2049C		SEE SIGNAGE ELEVATIONS	
2049D		SEE SIGNAGE ELEVATIONS	
2050A	D.1	EXAM	
2050B	D.1	EXAM	MOUNT ON GLAZING
2050C		SEE SIGNAGE ELEVATIONS	
2050D		SEE SIGNAGE ELEVATIONS	
2051A	D.1	EXAM	
2051B	D.1	EXAM	MOUNT ON GLAZING
2051C		SEE SIGNAGE ELEVATIONS	
2051D		SEE SIGNAGE ELEVATIONS	
2055A	D.1	DEBRIEF	
2055B	D.1	DEBRIEF	MOUNT ON GLAZING
2056B	D.1	PREBRIEF	
2058A	D.1	EXAM	
2058B	D.1	EXAM	MOUNT ON GLAZING
2058C		SEE SIGNAGE ELEVATIONS	
2058D		SEE SIGNAGE ELEVATIONS	
2059A	D.1	EXAM	
2059B	D.1	EXAM	MOUNT ON GLAZING
2059C		SEE SIGNAGE ELEVATIONS	
2059D		SEE SIGNAGE ELEVATIONS	
2060A	D.1	EXAM	
2060B	D.1	EXAM	MOUNT ON GLAZING
2060C		SEE SIGNAGE ELEVATIONS	
2060D		SEE SIGNAGE ELEVATIONS	
2061A	D.1	EXAM	
2061B	D.1	EXAM	MOUNT ON GLAZING
2061C		SEE SIGNAGE ELEVATIONS	
2061D		SEE SIGNAGE ELEVATIONS	
2063		RESTROOM	
2064		RESTROOM	
2065	D.2	SHOWER	
2066A	D.1	SP WAITING & LOUNGE	
2066B	D.1	SP WAITING & LOUNGE	
2067A	D.1	OFFICE	
2067B	D.1	OFFICE	
2069	E.2	MEN	
2070	E.3	WOMEN	
2072	D.2	ELECTRICAL	
2073	D.1	CLINICAL SKILLS	
2075	D.2	AV ROOM	
2078	D.1	GROUP STUDY 12	
3001	D.1	CONFERENCE ROOM	MOUNT ON GLAZING
3002	D.1	FACULTY WORKROOM	
3003	D.2	MECHANICAL	
3006A	D.1	LECTURE HALL 2	
3006B	D.1	LECTURE HALL 2	
3006C	D.1	LECTURE HALL 2	
3011	D.1	OFFICE	MOUNT ON GLAZING
3012	D.1	OFFICE	MOUNT ON GLAZING
3014	D.2	ELECTRICAL	
3015	D.1	OFFICE	MOUNT ON GLAZING
3017	D.1	OFFICE	MOUNT ON GLAZING
3019		RESTROOM	
3020	D.1	OFFICE	
3021	D.1	CONFERENCE ROOM	
3023	D.1	OFFICE	
3024	D.2	STORAGE	
3025	D.1	WORKROOM	
3027	D.1	CONFERENCE ROOM	MOUNT ON GLAZING
3028	D.1	SHARED OFFICES	MOUNT ON GLAZING
3029	D.1	OFFICE	MOUNT ON GLAZING
3030	D.1	SHARED OFFICES	MOUNT ON GLAZING
3031	D.1	OFFICE	MOUNT ON GLAZING
3032	D.1	OFFICE	MOUNT ON GLAZING
3033	D.1	SHARED OFFICES	MOUNT ON GLAZING
3034	D.1	IT WORKROOM	MOUNT ON GLAZING
3039	D.1	CONFERENCE ROOM	MOUNT ON GLAZING
3040	D.1	WORKROOM	
3042	D.2	STORAGE	
3043	D.1	OFFICE	MOUNT ON GLAZING
3045	D.1	OFFICE	MOUNT ON GLAZING
3046	D.1	OFFICE	MOUNT ON GLAZING

MARK	SIGN TYPE	VERBIAGE	REMARKS
3047	D.1	OFFICE	MOUNT ON GLAZING
3048	D.1	OFFICE	MOUNT ON GLAZING
3049	D.1	OFFICE	MOUNT ON GLAZING
3050	D.1	OFFICE	MOUNT ON GLAZING
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3054	D.1	OFFICE	MOUNT ON GLAZING
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3057	D.1	OFFICE	MOUNT ON GLAZING
3058	D.1	OFFICE	MOUNT ON GLAZING
3059	D.1	OFFICE	MOUNT ON GLAZING
3060	D.1	OFFICE	MOUNT ON GLAZING
3061	D.1	OFFICE	MOUNT ON GLAZING
3062	D.1	OFFICE	MOUNT ON GLAZING
3063	D.1	OFFICE	MOUNT ON GLAZING
3064	D.1	OFFICE	MOUNT ON GLAZING
3065	D.1	OFFICE	MOUNT ON GLAZING
3066	D.1	OFFICE	MOUNT ON GLAZING
3067	D.1	OFFICE	MOUNT ON GLAZING
3069	D.1	OFFICE	MOUNT ON GLAZING
3070	D.1	OFFICE	MOUNT ON GLAZING
3071	D.1	OFFICE	MOUNT ON GLAZING
3072	D.1	OFFICE	MOUNT ON GLAZING
3073	D.1	OFFICE	MOUNT ON GLAZING
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3075	D.1	OFFICE	MOUNT ON GLAZING
3076	D.1	SHARED OFFICES	MOUNT ON GLAZING
3077	D.1	OFFICE	MOUNT ON GLAZING
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3079	D.1	OFFICE	MOUNT ON GLAZING
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3081	D.1	OFFICE	MOUNT ON GLAZING
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3084	D.1	OFFICE	MOUNT ON GLAZING
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3087	F.1	OFFICE	MOUNT ON GLAZING
3089	D.1	OFFICE	MOUNT ON GLAZING
3090	D.1	OFFICE	MOUNT ON GLAZING
3091A	D.1	CONFERENCE ROOM	MOUNT ON GLAZING
3091B	D.1	CONFERENCE ROOM	MOUNT ON GLAZING
3093	D.1	OFFICE	MOUNT ON GLAZING
3094	D.1	SHARED OFFICES	MOUNT ON GLAZING
3095	D.1	OFFICE	MOUNT ON GLAZING
3096	D.1	OFFICE	MOUNT ON GLAZING
3097	D.1	OFFICE	MOUNT ON GLAZING
3098	D.1	OFFICE	MOUNT ON GLAZING
3099	D.1	OFFICE	MOUNT ON GLAZING
3101	D.2	ELECTRICAL	
3102	D.2	STORAGE	
3104	D.2	STORAGE	
3105	E.3	WOMEN	
3106A	D.1	CLASSROOM/LEARNING LAB 4	MOUNT ON GLAZING
3106B	D.1	CLASSROOM/LEARNING LAB 4	MOUNT ON GLAZING
3108	D.1	CONFERENCE ROOM	MOUNT ON GLAZING
3109	E.2	MEN	
3110A	D.1	CLASSROOM/LEARNING LAB 3	MOUNT ON GLAZING
3110B	D.1	CLASSROOM/LEARNING LAB 3	MOUNT ON GLAZING
3111	D.2	STORAGE	
3112	D.1	FACULTY BREAKROOM	MOUNT ON GLAZING
B002	D.2	ELECTRICAL	
B003A	D.1	NEUROANATOMY	
B003B	D.1	NEUROANATOMY	
B003C	D.1	NEUROANATOMY	
B005	D.1	NEURO PREP	
B006	D.1	CADAVER STORAGE & LOADING	
B007A	D.1	CADAVER STORAGE & LOADING	
B007B	D.1	GROSS ANATOMY	
B008	D.1	ANATOMY WORKROOM	
B009	D.1	GROSS ANATOMY PREP	
B011	F.1	STAIRS	
B012	D.1	UPS ROOM	
B014	D.1	MAIL ROOM	
B015	D.1	SHARED FACILITIES & HOUSEKEEPING OFFICE	
B016	D.1	SECURITY OFFICETG	
B017	D.1	FIRE PUMP ROOM	
B018	D.1	MDF ROOM	
B019A	D.2	ELECTRICAL	
B019B	D.2	ELECTRICAL	
B020	D.2	EMERGENCY ELECTRICAL	
B021	D.2	MECHANICAL	
B022	D.2	JANITOR	
B023	E.2	MEN	
B024	D.1	ANATOMY OFFICE	
B025	E.2	WOMEN	
B027	D.2	ANATOMY OFFICE	
B028	D.2	MECHANICAL	
B029	F.1	EMERGENCY ELECTRICAL	

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REVISIONS

#	DATE	DESCRIPTION

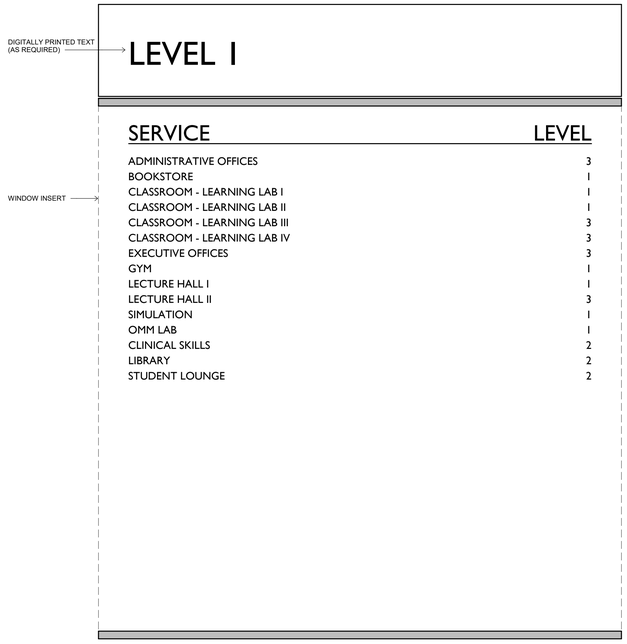
DATE: 07-26-19

JOB NUMBER: 17-13

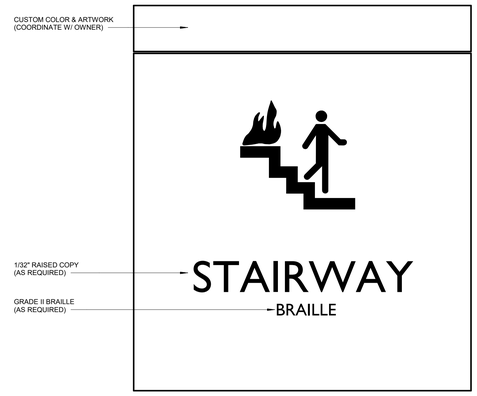
SHEET NUMBER:

A10.00

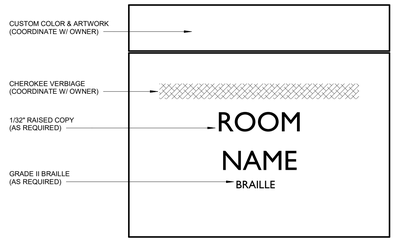
SIGNAGE SCHEDULE



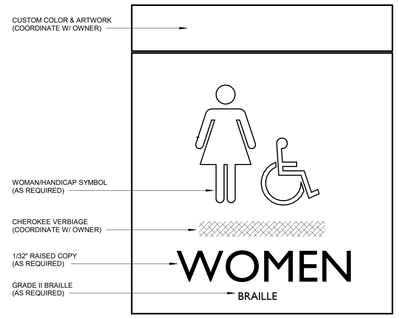
20 TYPE H
6" = 1'-0"



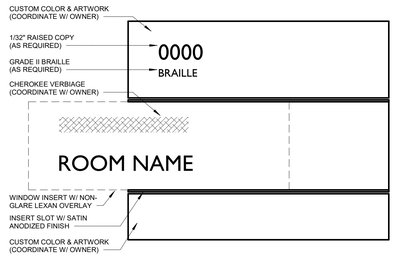
13 TYPE F.1
6" = 1'-0"
MODEL: EVH2-F7



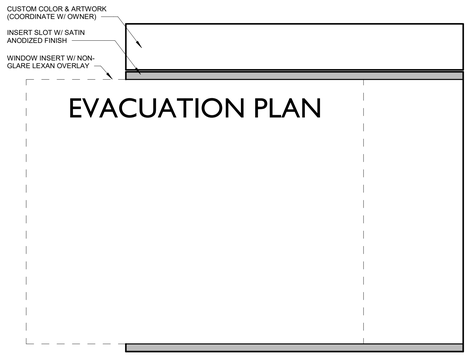
09 TYPE D.2
6" = 1'-0"
MODEL: EVH2-B6
VERIFY TEXT W/ OWNER



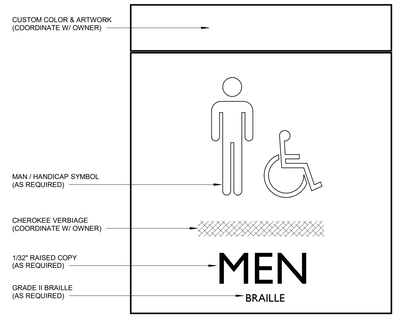
12 TYPE E.3
6" = 1'-0"
MODEL: EVH2-R4
VERIFY TEXT W/ OWNER



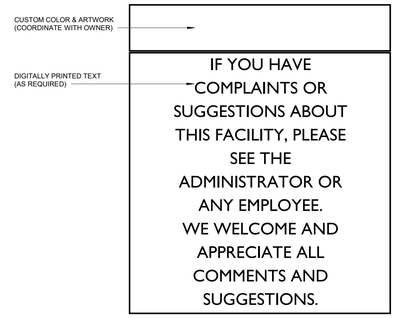
08 TYPE D.1
6" = 1'-0"
MODEL: EVH2-F7
VERIFY TEXT W/ OWNER



15 TYPE G
6" = 1'-0"
MODEL: EVH2-E1
INSERTS & EVACUATION PLAN PROVIDED BY OWNER
COORDINATE LOCATIONS W/ OWNER

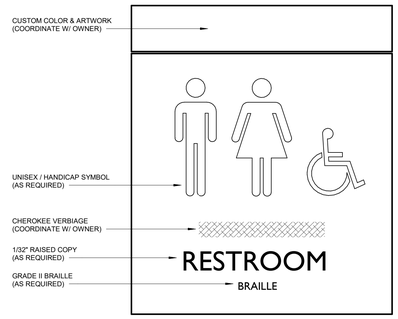


11 TYPE E.2
6" = 1'-0"
MODEL: EVH2-R4
VERIFY TEXT W/ OWNER

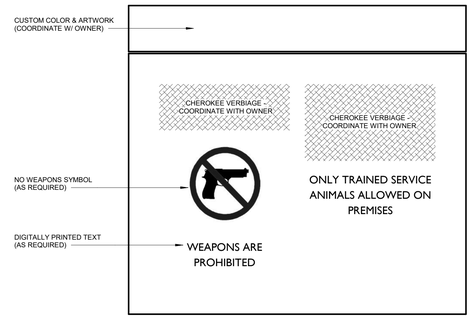


02 TYPE C.1
6" = 1'-0"
MODEL: EVH2-G8
COORDINATE LOCATION W/ OWNER
VERIFY TEXT W/ OWNER

14 TYPE F.2
6" = 1'-0"
MODEL: EVH2-F3



10 TYPE E.1
6" = 1'-0"
MODEL: EVH2-R4
VERIFY TEXT W/ OWNER



01 TYPE B.2
6" = 1'-0"
MODEL: EVH2-G8
COORDINATE LOCATION W/ OWNER
VERIFY TEXT W/ OWNER

GENERAL NOTES - FLOOR PLAN

1. ALL SIGNAGE TO BE TAMPERPROOF.
2. ALL SIGNAGE TO HAVE CHEROKEE VERBIAGE. COORDINATE VERBIAGE W/ OWNER.
3. COORDINATE ALL CUSTOM SIGNAGE COLORS & ARTWORK W/ OWNER & ARCHITECT. (ARTWORK NOT SHOWN)

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KEY PLAN:

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REVISIONS

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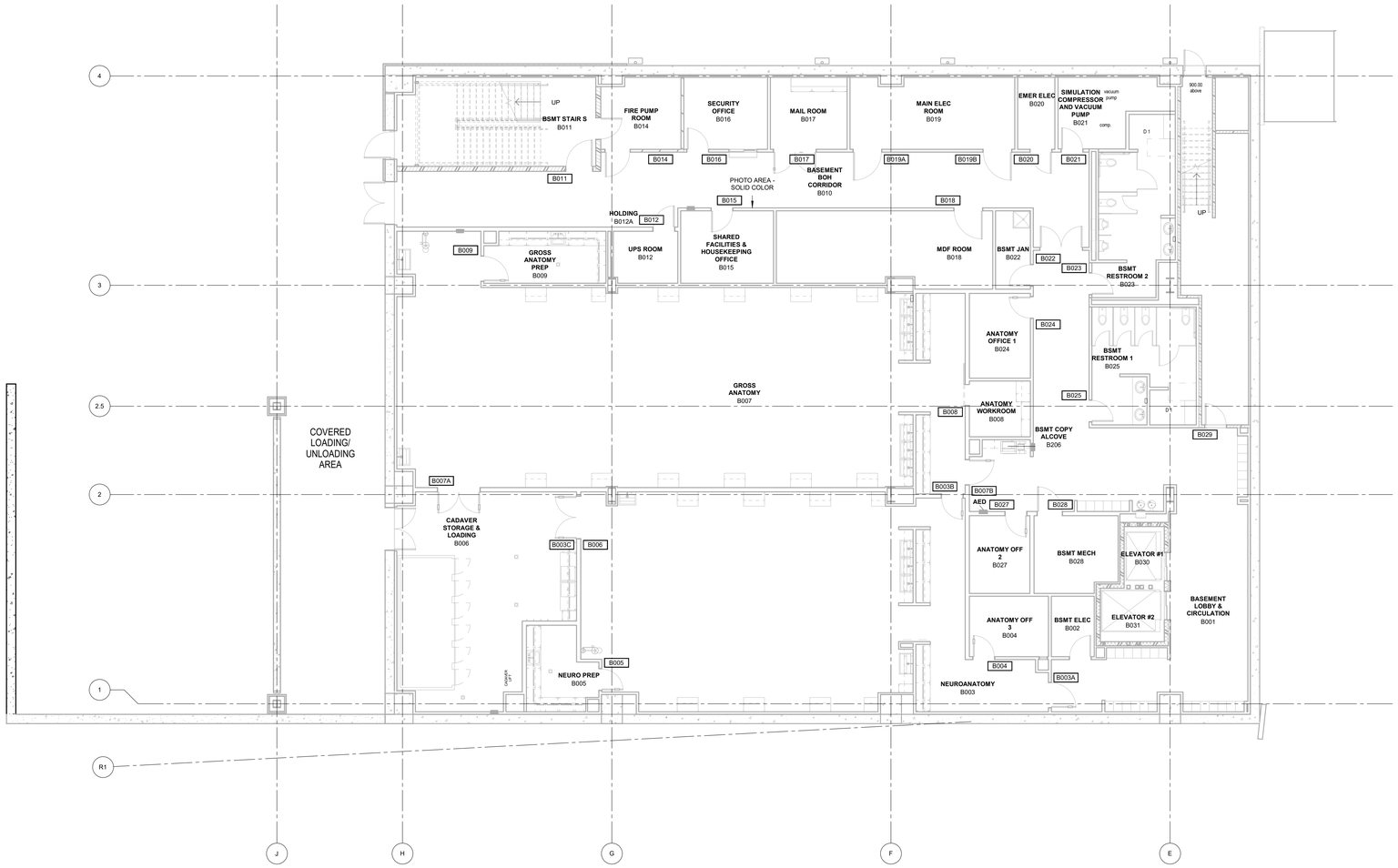
DATE:	JOB NUMBER:
07-26-19	17-13

SHEET NUMBER:
A10.01

SIGNAGE ELEVATIONS



PLAN NORTH

TRUE NORTH

01 SIGNAGE PLAN PLAN BASEMENT LEVEL

1/8" = 1'-0"

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#	DATE	DESCRIPTION

DATE:	JOB NUMBER:
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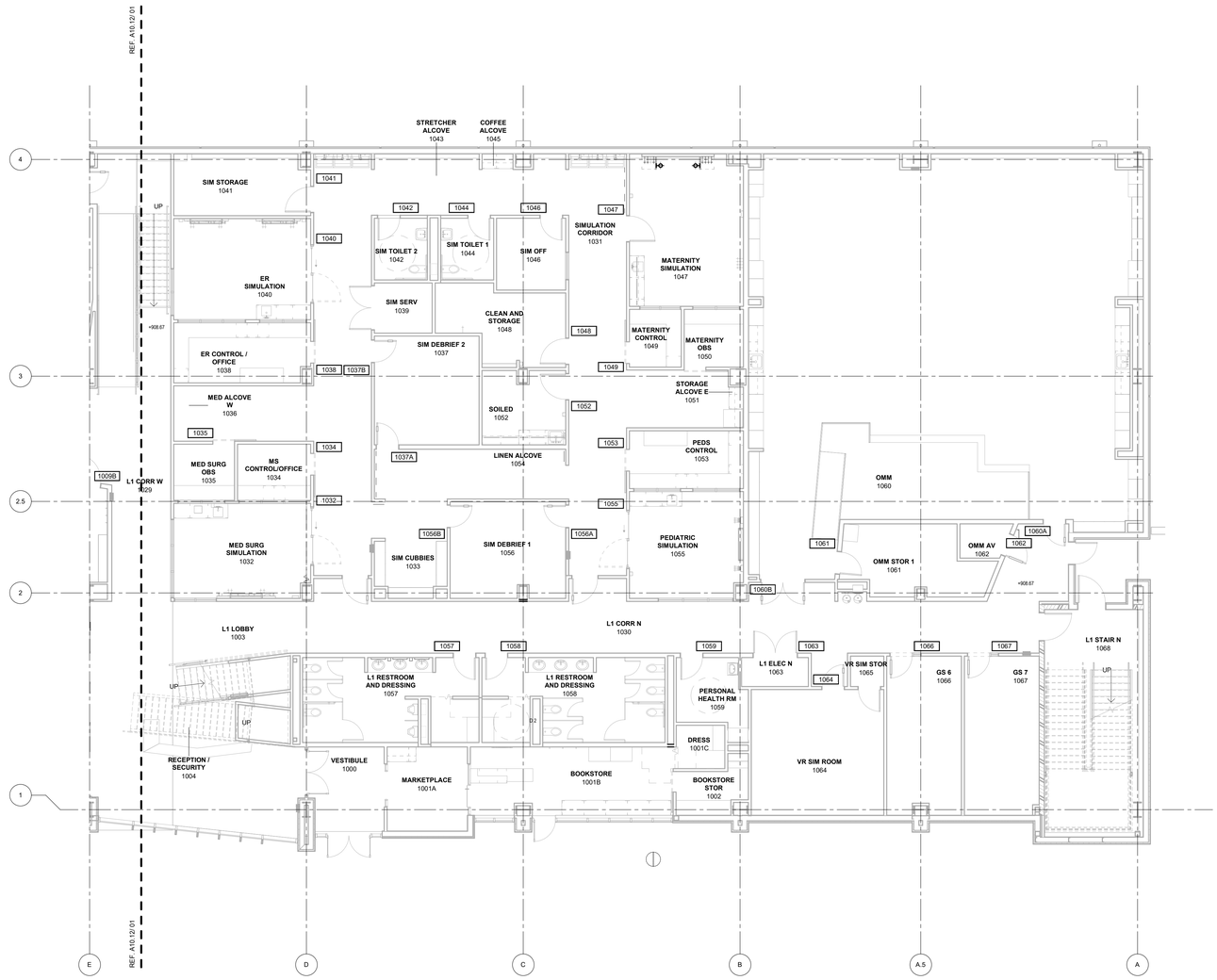
A10.02

SIGNAGE PLAN - BASEMENT



PLAN NORTH

TRUE NORTH

01 SIGNAGE PLAN LEVEL 01 SECTOR 01

1/8" = 1'-0"

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THE CHEROKEE NATION SEPT. 6, 1839

COLLEGE OF Osteopathic Medicine AT THE CHEROKEE NATION

TAHLEQUAH, OKLAHOMA

KEY PLAN:

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#	DATE	DESCRIPTION

DATE:	JOB NUMBER:
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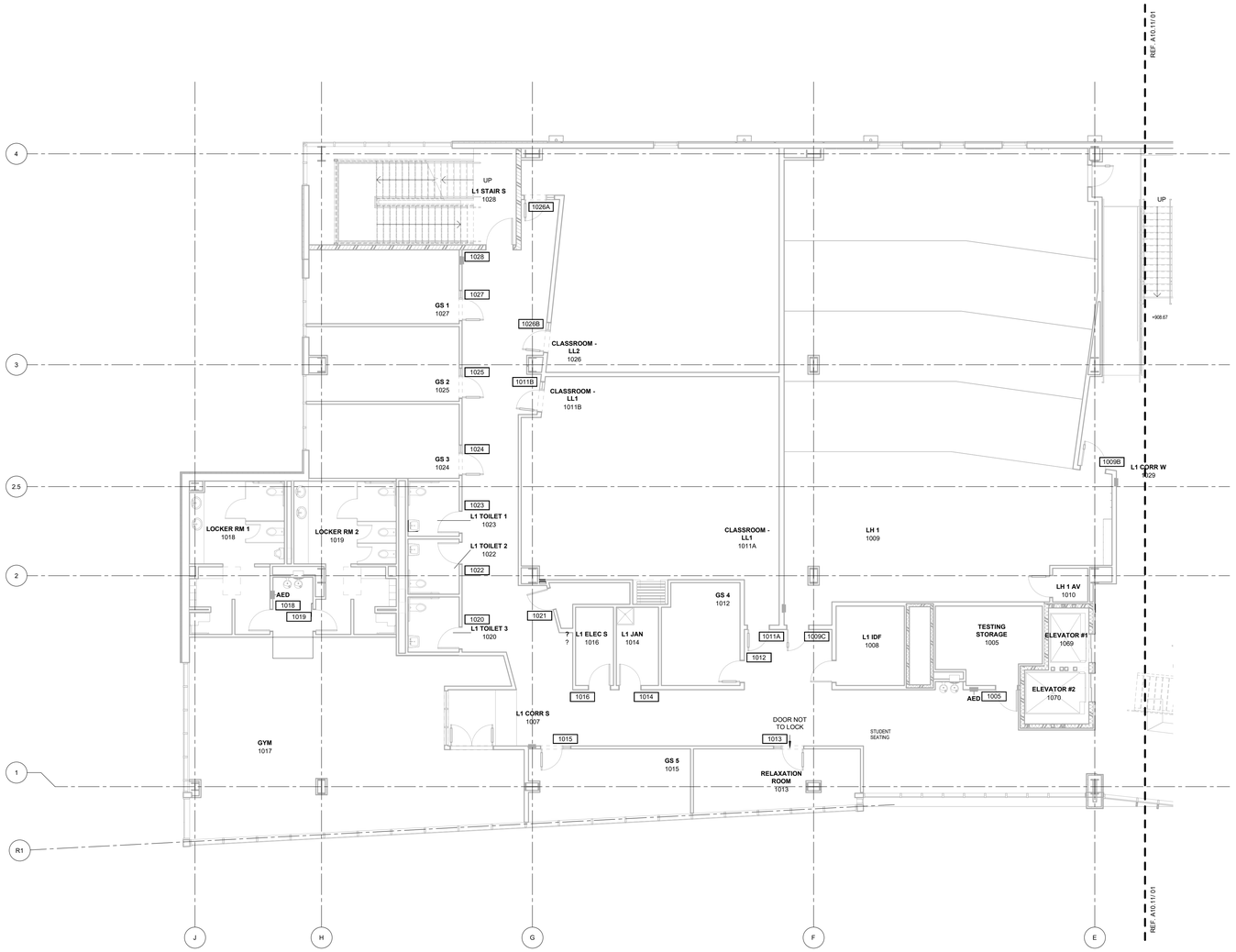
SHEET NUMBER:

A10.11

SIGNAGE PLAN - LEVEL 01 SECTOR 01



PLAN NORTH

TRUE NORTH

01 SIGNAGE PLAN LEVEL 01 SECTOR 02

1/8" = 1'-0"

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KEY PLAN:

02 01

PROJECT PHASE:

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REVISIONS

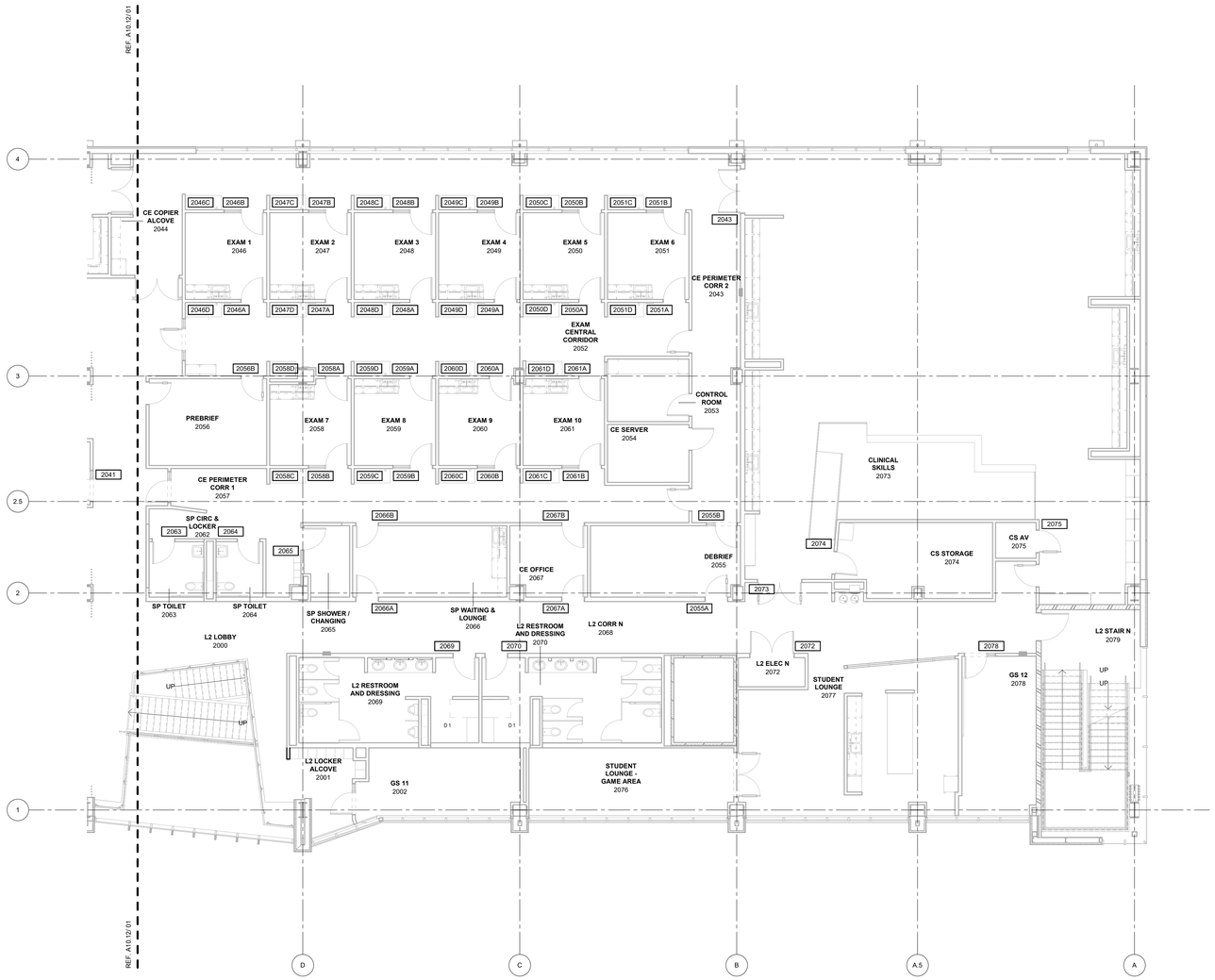
#	DATE	DESCRIPTION

DATE: 07-26-19

JOB NUMBER: 17-13

SHEET NUMBER: A10.12

SIGNAGE PLAN - LEVEL 01 SECTOR 02



PLAN NORTH

TRUE NORTH

01 SIGNAGE PLAN LEVEL 02 SECTOR 01

1/8" = 1'-0"

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TAHLEQUAH, OKLAHOMA

KEY PLAN:

02 01

PROJECT PHASE:

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REVISIONS		
#	DATE	DESCRIPTION

DATE:	JOB NUMBER:
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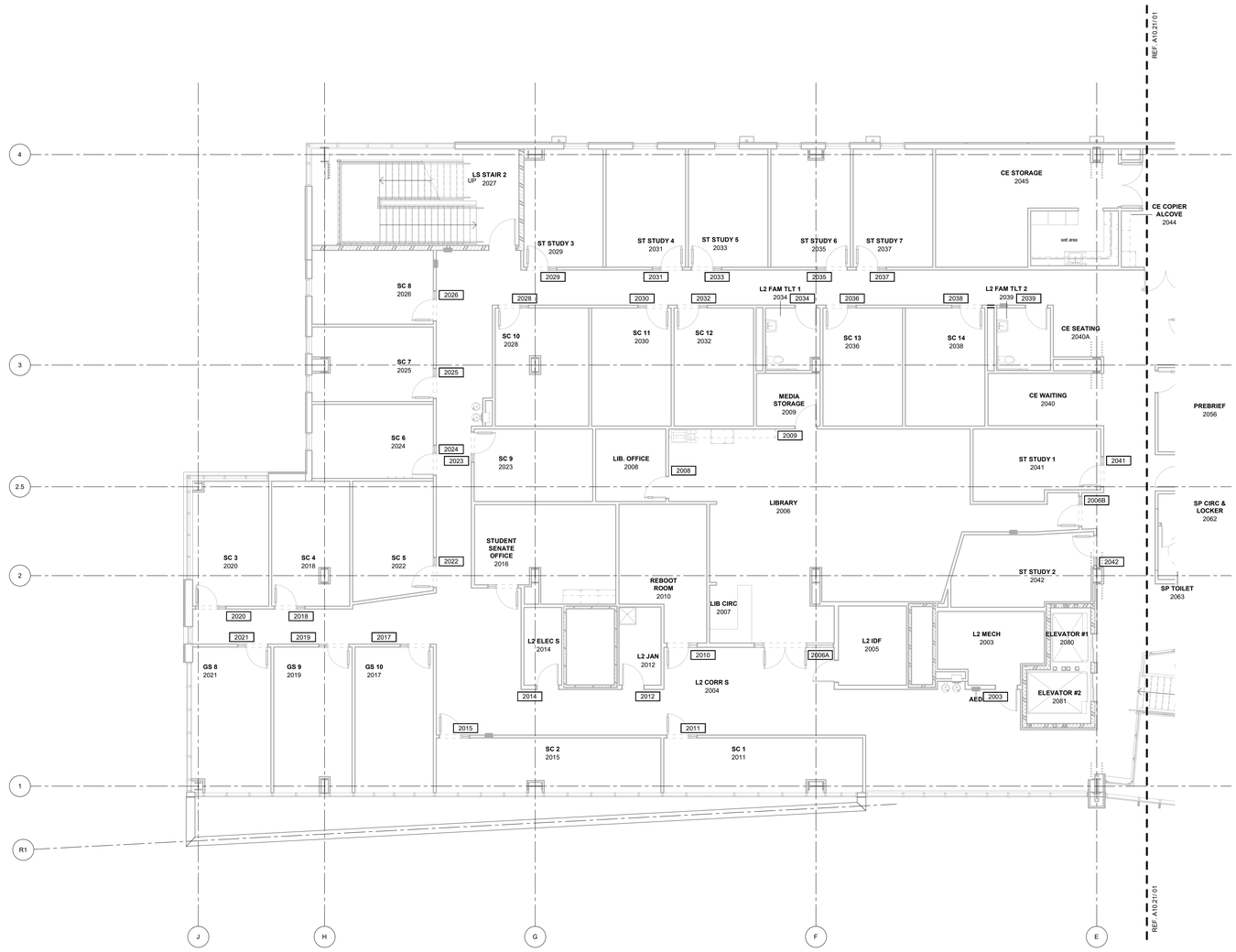
SHEET NUMBER:

A10.21

SIGNAGE PLAN - LEVEL 02 SECTOR 01



PLAN NORTH

TRUE NORTH

01 SIGNAGE PLAN LEVEL 02 SECTOR 02

1/8" = 1'-0"

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KEY PLAN:

02 01

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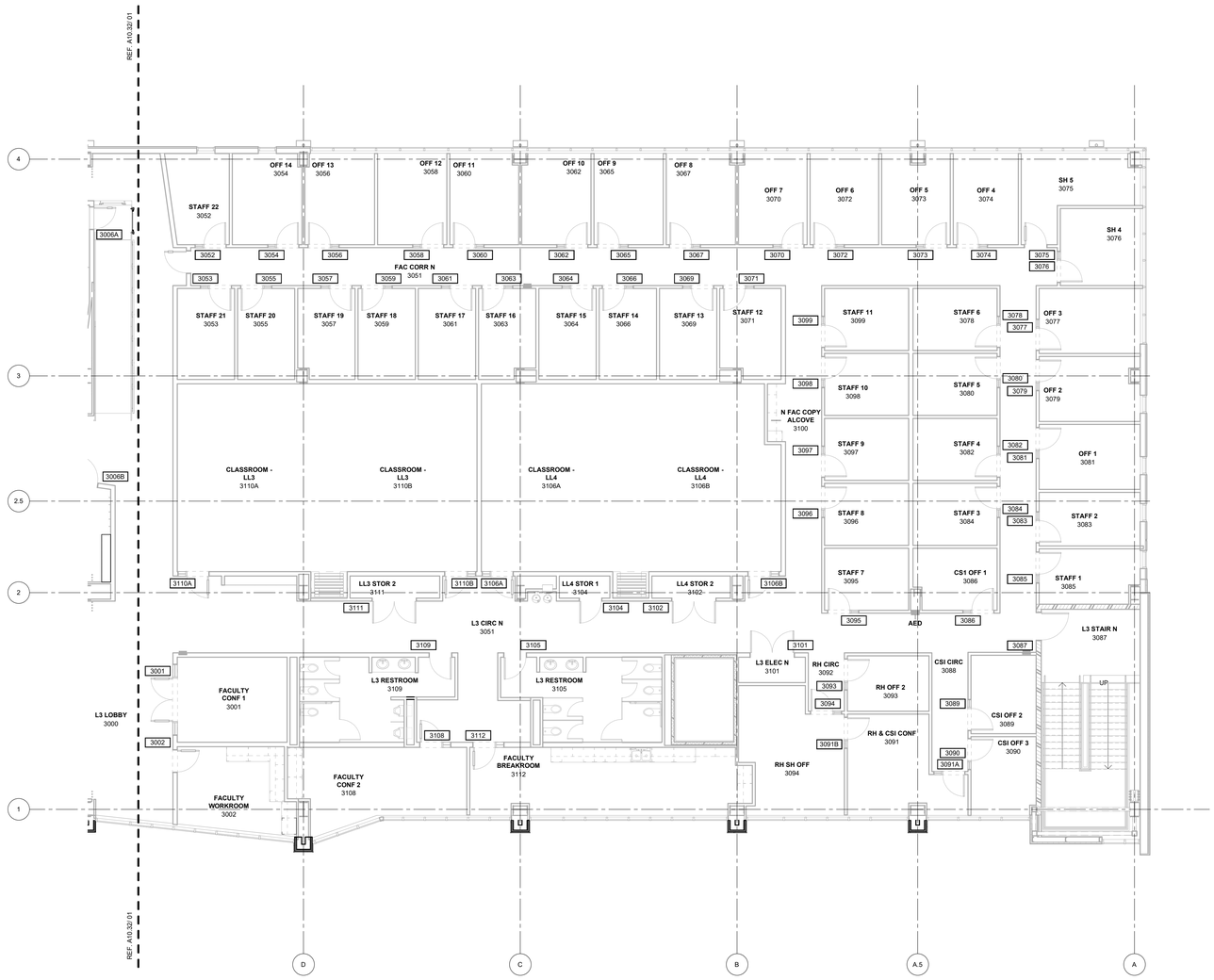
#	DATE	DESCRIPTION

DATE: 07-26-19

JOB NUMBER: 17-13

SHEET NUMBER: A10.22

SIGNAGE PLAN - LEVEL 02 SECTOR 02



01 SIGNAGE PLAN LEVEL 03 SECTOR 01

1/8" = 1'-0"

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TAHLEQUAH, OKLAHOMA

KEY PLAN:

02 01

PROJECT PHASE:

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#	DATE	DESCRIPTION

DATE:	JOB NUMBER:
07-26-19	17-13

SHEET NUMBER:

A10.31

SIGNAGE PLAN - LEVEL 03 SECTOR 01

PLAN NORTH

TRUE NORTH

01 SIGNAGE PLAN LEVEL 03 SECTOR 02

1/8" = 1'-0"

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KEY PLAN:

02 01

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DATE: 07-26-19

JOB NUMBER: 17-13

SHEET NUMBER:

A10.32

SIGNAGE PLAN - LEVEL 03 SECTOR 02

PLUMBING EQUIPMENT SCHEDULE

FIXTURE TAG	DESCRIPTION	MANUFACTURER	TRIM	ELECTRICAL REQUIREMENTS
AC-1	AIR COMPRESSOR	OHIO MEDICAL ACS300-208-TI-H80-DD-LAB	15 LPMX8(OUTLETS)=4.24 CFM, SIMPLEX COMPRESSOR, 9.9 CFM @ 50 PSI, 80 GALLON TANK, HORIZONTAL TANK MOUNTED SIMPLEX, SIMPLEX SCROLL AIR COMPRESSOR	208V, 3PH, 3HP
BT-1	BOOSTER TANK	ELBI WTL-500	132 GALLON BOOSTER TANK, MAXIMUM WORKING PRESSURE 200 PSI, MAXIMUM OPERATING TEMP 240° F	
BV-1	BALL VALVE	APOLLO INTERNATIONAL 94ALF-A	LEAD FREE BALL VALVE, FULL PORT, BLOWOUT-PROOF, PRESSURE RETAINING, ADJUSTABLE STEM PACKING NUT	
DBP-1	DOMESTIC BOOSTER PUMP (DUPLEX)	PREMIER FLOW PFVD-5-2-1/2 (DUPLEX)	SYSTEM CONDITION POINT: 150 GPM @ 72 PSI, SUCTION PRESSURE 19 MIN. TO 30 MAX. PSI, (2) PUMPS/MOTORS MODEL EBARA EVMSU15-2, 5 HP, 3600 RPM, FLOW RATE OF 75 GPM @ 122 FT. TDH (EACH),	480V, 3 PH, 60HZ, 3.73 KW, 5 HP
DN-1	DOWNSPOUT NOZZLE	ZURN Z199 ZARB	ROUGH BRONZE BODY, DECORATIVE WALL FLANGE AND OUTLET NOZZLE	
ESH-1	EYE/FACE WASH STATION 2-HEADS WITH SHOWER	GUARDIAN G1950P	EYE/FACE WASH: TWO FS-PLUS SPRAY HEADS WITH SHOWER, 1/2" IPS PVCV COATED BRASS STAY-OPEN BALL VALVE, 11.75" ORANGE ABS PLASTIC BOWL, SHOWER: 1"PVC-COATED BRASS STAY-OPEN BALL VALVE 10" DIAMETER ORANGE ABS SHOWER HEAD WITH 20 GPM FLOW CONTROL, TMV-2	
ET-1	EXPANSION TANK	ZURN WXTP-120V	BRASS CONNECTION, WELDED STEEL CONSTRUCTION, BUTYL RUBBER BLADDER, MAXIMUM SUPLY PRESSURE 80 PSI, PRE-CGARGE 40 PSI	
EWC-1	ELECTRIC WATER COOLER, SPLIT LEVEL, WALL MOUNTED, STANDARD AND HANDICAPPED, NO LEAD DESIGN, ONE PIECE, STAINLESS STEEL BASIN, WITH BOTTLE FILLING STATION	ELKAY LZWS-LRPBM28K	ADA APPROVED, W/ TOUCH PADS ON FRONT, BOTTLE FILLING STATION WITH INTEGRAL SWIRLFLO FOUNTAIN, REFRIGERATED FILTERED STAINLESS, FLEXI-GUARD SAFETY BUBBLER, P-TRAP, WATER VALVE, FRAME PER MANUFACTURER'S INSTRUCTIONS	115V, 1PH, 370W
FD-1	FLOOR DRAIN-SQUARE	MIFAB F1000-S	CAST IRON BODY, ANCHOR FLANGE, SECURED ROUND ADJUSTABLE STRAINER HEAD WITH HOLE GRATE, LOOSE GRATE AND SEDIMENT BUCKETS, MIFAB TRAP GUARD, REFER TO PLANS FOR SIZES	
FPHB-1	FROST PROOF HOSE BIBB - BOX	WOODFORD B65	AUTOMATIC DRAINING, ANTI-SIPHON FREEZELESS, PROVIDE SHUTOFF VALVE FOR SUPPLY LINE IN AN ACCESSIBLE LOCATION	
FS-1	FLOOR SINK 12-1/2" CAST IRON RECEPTOR, 8" DEEP	J. R. SMITH 3150	CAST IRON FLANGED RECEPTOR, SEEPAGE HOLES, ACID RESISTANT COATED INTERIOR, NICKEL BRONZE RIM, LOOSE GRATE, ALUMINUM DOME BOTTOM STRAINER, GRATE, MIFAB TRAP GUARD	
GD-1	GARBAGE DISPOSAL - RESIDENTIAL	INSINKERATOR BADGER 1	1/3 HORSEPOWER HEAVY DUTY MOTOR, RUGGED GALVANIZED STEEL CONSTRUCTION, INSTALL PER MANUFACTURER'S INSTRUCTIONS	120V, 60HZ, 1/3HP
GWH-1	(6) GAS WATER HEATER TANKLESS	LOCHINVAR WAN200PM	DIRECT-SPARK IGNITION, BUILT-IN CASCADING SEQUENCER, PROVIDE MANUFACTURER'S CONCENTRIC VENT KIT TO EXTERIOR, PROVIDE CATCH PAN & DRAIN, MIXING VALVE, ACID NEUTRALIZATION KIT, 199.9 MBH	120V, 60HZ, 1PH, 24VAC
HL-1	HANDICAPPED LAVATORY, UNDER MOUNT, VITREOUS CHINA - OVAL	ZURN Z5220	ZURN Z7440-XL-BA-FC SINGLE LEVER FAUCET, TMV-1, ZURN Z8743-PC GRID STRAINER, ZURN Z8700 SERIES P-TRAP, ZURN Z8800 SERIES STOP WITH FLEXIBLE SUPPLIES AND TURN KEY, ZURN Z8946-1-NT ADA TRAP, STOP AND SUPPLY PROTECTOR PVC TYPE INSULATION AROUND "P" TRAP & IPS CONNECTIONS, THREE HOLES ON DECK 4" CENTERS, COORDINATE LOCATION OF FAUCET WITH SINK PRIOR TO CUTTING HOLES	
HL-2	HANDICAPPED LAVATORY, WALL MOUNT, VITREOUS CHINA	ZURN Z5314	ZURN Z7440-XL-BA-FC SINGLE LEVER FAUCET, TMV-1, ZURN Z8743-PC GRID STRAINER, ZURN Z8700 SERIES P-TRAP, ZURN Z8800 SERIES STOP WITH FLEXIBLE SUPPLIES AND TURN KEY, ZURN Z8946-1-NT ADA TRAP, STOP AND SUPPLY PROTECTOR PVC TYPE INSULATION AROUND "P" TRAP & IPS CONNECTIONS, CONCEALED ARM CARRIER SYSTEM, THREE HOLES ON DECK 4" CENTERS	
HSH-1	HANDICAPPED SHOWER, 60"x 30" ROLL-IN	SCHLUTER DRAIN SYSTEM TILE BY OTHER	STAINLESS STEEL DRAIN BODY STRAINER, SEAT, GRAB BARS, ZURN Z7300-SS-MT-HW-H9-WF	
HSH-2	HANDICAPPED SHOWER, 36"x 36"	SCHLUTER DRAIN SYSTEM TILE BY OTHER	STAINLESS STEEL DRAIN BODY STRAINER, SEAT, GRAB BARS, ZURN Z7300-SS-MT-HW-H9-WF	
HWC-1	HANDICAPPED WATER CLOSET, VITREOUS CHINA, FLUSH VALVE, WALL MOUNTED, ELONGATED RIM, 12" ROUGH-IN, SIPHON JET BOWL, 1.28 GPF	ZURN Z5615 HET SERIES	EZ-FLO 65913 OPEN FRONT SEAT, ZURN Z6000AV-HET 1.28 GPF MANUAL FLUSH VALVE, J.R. SMITH 0211Y-M54 1000# CARRIER	
IHF-1	INSTA HOT FAUCET	INSINKERATOR MODEL C1300	SWIVELING GOOSENECK SPOUT, EASY-ACTION LEVER WITH AUTOMATIC SHUT-OFF, POLISHED CHROME, 2/3 GALLON STAINLESS STEEL TANK, TEMPERATURE CONTROL,	115V, 11.3A
JS-1	JANITOR'S SINK, FLOOR MOUNTED 24"x 24", ONE PIECE MOLDED CONSTRUCTION OF NATURAL CRUSHED STONE AND POLYESTER RESIN	MUSTEE CUSTODIAL FLOOR SINK MODEL 63M	PROVIDE SERVICE FAUCET # 63.600A CHROME PLATED BRASS ON 8" CENTER W/ VACUUM BREAKER, HOSE BRACKET 65.700, MOP HANGER 65.600, BUMPER GUARDS 63.401, WALL GUARDS 2 PANELS & 1 BRACKET 67.2424, SUPPLIED W/ CAST BRASS DRAIN, PROVIDE CHECK VALVES ON HOT AND COLD WATER LINES IN AN ACCESSIBLE LOCATION	
L-1	LAVATORY, PEDESTAL SINK, VITREOUS CHINA	KOHLER K-2362-1	ZURN Z7440-XL-BA-FC SINGLE LEVER FAUCET, TMV-1, ZURN Z8743-PC GRID STRAINER, ZURN Z8700 SERIES P-TRAP, ZURN Z8800 SERIES STOP WITH FLEXIBLE SUPPLIES AND TURN KEY, ZURN Z8946-1-NT ADA TRAP, STOP AND SUPPLY PROTECTOR PVC TYPE INSULATION AROUND "P" TRAP & IPS CONNECTIONS, CONCEALED ARM CARRIER SYSTEM, ONE HOLE ON DECK 4" CENTER	
OD-1	OVERFLOW DRAIN	J.R. SMITH 1072	ADJUSTABLE, DUCO CAST IRON BODY, FLASHING CLAMP, GRAVEL STOP, POLYETHYLENE DOME, WATER DAM, SUMP PAN	
PRV-1	PRESSURE REDUCING VALVE	WATTS LF25AUB	LEAD FREE COPPER SILICON ALLOY WITH STAINLESS STEEL STRAINER AND HIGH-TEMPERATURE DIAPHRAGM, HIGH OR LOW-PRESSURE SETTINGS, GAUGE PORTS, NSF 61-G APPROVED FOR POTABLE-WATER APPLICATIONS AND COMPLIANT WITH ASSE 1003 STANDARDS	
RC-1	HEAT TAPE	RAYCHEM	140° NVENT RAYCHEM HWAY SELF-REGULATION HEATING CABLE (HWAT-R2) WITH PLASTICIZER DIFFUSION SHEILD, HEAVY TINNED COPPER BRAID AND POLYOLEFIN OUTER JACKET. (1)CONTROLLER PER 500 FEET OF TAPE, COORDINATE LOCATION OF CONTROLLER WITH MANUFACTURER AND OWNER. CONTROLLER TO BE SET AT 125°, PROVIDE MAGGERING REPORT @ 2500V, RICHARD T. WARREN, JR. P.E. INDUSTRIAL HEATER OFFICE: 901-382-4761; CELL: 901-240-2284.	208-240V, 30A
RD-1	ROOF DRAINS	J.R. SMITH 1015	ADJUSTABLE EXTENSION, DUCO CAST IRON BODY, FLASHING CLAMP, GRAVEL STOP, POLYETHYLENE DOME, AND SUMP PAN	
RH-1	ROOF HYDRANT	WOODFORD RHY2-MS	FREEZELESS ROOF HYDRANT, BACKFLOW PROTECTED WITH DOUBLE CHECK BACKFLOW PREVENTER, BUILT IN VENT, DRAIN HOLE WHICH MUST BE PIPED TO A DRAIN LOCATION	
RPZ-1	REDUCE PRESSURE PRINCIPLE BACKFLOW PREVENTER, FOR DOMESTIC WATER	WATTS LF009M2 QT	PROVIDE SAME SIZE AS WATER LINE FROM METER, WATTS BALL VALVES AND "Y" STRAINER, SHALL MEET APPROVAL BY FOUNDATION FOR CROSS CONNECTION CONTROL AND HYDRAULIC RESEARCH AT THE UNIVERSITY OF SOUTHERN CALIFORNIA	
RPZ-2	REDUCE PRESSURE PRINCIPLE BACKFLOW PREVENTER, FOR IRRIGATION WATER	WATTS LF009M2 QT	PROVIDE SAME SIZE AS WATER LINE FROM METER, WATTS BALL VALVES AND "Y" STRAINER, SHALL MEET APPROVAL BY FOUNDATION FOR CROSS CONNECTION CONTROL AND HYDRAULIC RESEARCH AT THE UNIVERSITY OF SOUTHERN CALIFORNIA	
S-1	SINK SINGLE COMPARTMENT - EXAMS	ELKAY LUSTERTONE LRAD221955	ELKAY MODEL LK7921SSS SINGLE LEVER POST MOUNT, CIRCULAR BASE, 13" HIGH SPOUT, 8" REACH, AERATOR, 3-1/2" OPENING DRAIN. McGUIRE 151M HEAVY DUTY BRASS BASKET & STRAINER, 1 1/2", CHROME PLATED TAILPIECE. McGUIRE 8912 1 1/2" x 1 1/2" HEAVY DUTY CHROME PLATED CAST BRASS P-TRAP W/ CLEANOUT PLUG, McGUIRE 170LK CHROME PLATED SOLID BRASS ANGLE STOPS W/ 5" CHROME PLATED COPPER EXTENSION TUBE & LOOSE KEYS, FLEXIBLE CHROME PLATED COPPER RISERS, McGUIRE 111C SERIES 1 1/2" END OUTLET CONTINUOUS WASTE, PROVIDE ONE FAUCET HOLE ON DECK	
S-2	SINK SINGLE COMPARTMENT - SIM LABS	ELKAY	ELKAY MODEL LK7921SSS SINGLE LEVER POST MOUNT, CIRCULAR BASE, 13" HIGH SPOUT, 8" REACH, AERATOR, 3-1/2" OPENING DRAIN. McGUIRE 151M HEAVY DUTY BRASS BASKET & STRAINER, 1 1/2", CHROME PLATED TAILPIECE. McGUIRE 8912 1 1/2" x 1 1/2" HEAVY DUTY CHROME PLATED CAST BRASS P-TRAP W/ CLEANOUT PLUG, McGUIRE 170LK CHROME PLATED SOLID BRASS ANGLE STOPS W/ 5" CHROME PLATED COPPER EXTENSION TUBE & LOOSE KEYS, FLEXIBLE CHROME PLATED COPPER RISERS, McGUIRE 111C SERIES 1 1/2" END OUTLET CONTINUOUS WASTE, PROVIDE ONE FAUCET HOLE ON DECK	
S-3	SINK DOUBLE COMPARTMENT, COUNTER MOUNT	ELKAY LRAD332255	PFISTER G136-5000(C) DUAL LEVER FAUCET WITH SPRAY, 12" HIGH SWING SPOUT, 8" REACH, 0.5GPM AERATOR, 3-1/2" OPENING DRAIN. McGUIRE 151M HEAVY DUTY BRASS BASKET & STRAINER, 1 1/2", CHROME PLATED TAILPIECE. McGUIRE 8912 1 1/2" x 1 1/2" HEAVY DUTY CHROME PLATED CAST BRASS P-TRAP W/ CLEANOUT PLUG, McGUIRE 170LK CHROME PLATED SOLID BRASS ANGLE STOPS W/ 5" CHROME PLATED COPPER EXTENSION TUBE & LOOSE KEYS, FLEXIBLE CHROME PLATED COPPER RISERS, McGUIRE 111C SERIES 1 1/2" END OUTLET CONTINUOUS WASTE, PROVIDE THREE FAUCET HOLES ON DECK	
S-4	SINK DOUBLE COMPARTMENT - CADAVER STORAGE	MORTECH	PFISTER G136-5000(C) DUAL LEVER FAUCET WITH SPRAY, 12" HIGH SWING SPOUT, 8" REACH, 0.5GPM AERATOR, 3-1/2" OPENING DRAIN. McGUIRE 151M HEAVY DUTY BRASS BASKET & STRAINER, 1 1/2", CHROME PLATED TAILPIECE. McGUIRE 8912 1 1/2" x 1 1/2" HEAVY DUTY CHROME PLATED CAST BRASS P-TRAP W/ CLEANOUT PLUG, McGUIRE 170LK CHROME PLATED SOLID BRASS ANGLE STOPS W/ 5" CHROME PLATED COPPER EXTENSION TUBE & LOOSE KEYS, FLEXIBLE CHROME PLATED COPPER RISERS, McGUIRE 111C SERIES 1 1/2" END OUTLET CONTINUOUS WASTE, PROVIDE THREE FAUCET HOLES ON DECK	
S-5	SINK SINGLE COMPARTMENT - SCRUB	JUST	ELKAY MODEL LK7921SSS SINGLE LEVER POST MOUNT, CIRCULAR BASE, 13" HIGH SPOUT, 8" REACH, AERATOR, 3-1/2" OPENING DRAIN. McGUIRE 151M HEAVY DUTY BRASS BASKET & STRAINER, 1 1/2", CHROME PLATED TAILPIECE. McGUIRE 8912 1 1/2" x 1 1/2" HEAVY DUTY CHROME PLATED CAST BRASS P-TRAP W/ CLEANOUT PLUG, McGUIRE 170LK CHROME PLATED SOLID BRASS ANGLE STOPS W/ 5" CHROME PLATED COPPER EXTENSION TUBE & LOOSE KEYS, FLEXIBLE CHROME PLATED COPPER RISERS, McGUIRE 111C SERIES 1 1/2" END OUTLET CONTINUOUS WASTE, PROVIDE ONE FAUCET HOLE ON DECK	
S-6	SINK SINGLE COMPARTMENT - PREP	ELKAY	PFISTER G136-5000(C) DUAL LEVER FAUCET WITH SPRAY, 12" HIGH SWING SPOUT, 8" REACH, 0.5GPM AERATOR, 3-1/2" OPENING DRAIN. McGUIRE 151M HEAVY DUTY BRASS BASKET & STRAINER, 1 1/2", CHROME PLATED TAILPIECE. McGUIRE 8912 1 1/2" x 1 1/2" HEAVY DUTY CHROME PLATED CAST BRASS P-TRAP W/ CLEANOUT PLUG, McGUIRE 170LK CHROME PLATED SOLID BRASS ANGLE STOPS W/ 5" CHROME PLATED COPPER EXTENSION TUBE & LOOSE KEYS, FLEXIBLE CHROME PLATED COPPER RISERS, McGUIRE 111C SERIES 1 1/2" END OUTLET CONTINUOUS WASTE, PROVIDE THREE FAUCET HOLES ON DECK	
S-7	SINK THREE COMPARTMENT - SCRUB	JUST	ELKAY MODEL LK7921SSS SINGLE LEVER POST MOUNT, CIRCULAR BASE, 13" HIGH SPOUT, 8" REACH, AERATOR, 3-1/2" OPENING DRAIN. McGUIRE 151M HEAVY DUTY BRASS BASKET & STRAINER, 1 1/2", CHROME PLATED TAILPIECE. McGUIRE 8912 1 1/2" x 1 1/2" HEAVY DUTY CHROME PLATED CAST BRASS P-TRAP W/ CLEANOUT PLUG, McGUIRE 170LK CHROME PLATED SOLID BRASS ANGLE STOPS W/ 5" CHROME PLATED COPPER EXTENSION TUBE & LOOSE KEYS, FLEXIBLE CHROME PLATED COPPER RISERS, McGUIRE 111C SERIES 1 1/2" END OUTLET CONTINUOUS WASTE, PROVIDE ONE FAUCET HOLE ON DECK	
SB-1	SUPPLY BOX	GUY GRAY BIM-875	(1) 1/2" SUPPLY, PROVIDE WHA-1 (WATER HAMMER ARRESTOR)	
SCO-1	STACK CLEANOUT	J. R. SMITH 4510	DUCO CAST IRON CLEANOUT TEE, BRONZE PLUG, REMOVABLE STAINLESS STEEL COVER. REFER TO PLANS FOR SIZE, PROVIDE ROUND OR SQUARE FRAME AND COVER AS REQUIRED, REFER TO ARCHITECT	
ST-1	STORAGE TANK - 650 GALLON	LOCHINVAR RGA0650	125 WORKING PRESSURE, LOCK-TEMP BAFFLE, GLASS LINED, TEMPERATURE AND PRESSURE GAUGE, TEMPERATURE AND PRESSURE RELIEF VALVE, MAGNESIUM ANODE, ASME CERTIFIED, FIVE-YESR LIMITED WARRANTY	
TMV-1	THERMOSTATIC MIXING VALVE - POINT OF USE	LEONARD 270-LF	LEAD FREE, INTEGRAL CHECK VALVE AND STRAINER, PROVIDE, TEMPERATURE CONTROL SET AT 110°	
TMV-2	THERMOSTATIC MIXING VALVE - EMERGENCY	GUARDIAN G3800LF	LEAD FREE, INTEGRAL CHECK VALVE AND STRAINER, PROVIDE, TEMPERATURE CONTROL SET AT 90°	
TWCO-1	TWO WAY CLEANOUT, SPEEDI-SET OUTLET	J. R. SMITH 4237	UNFINISHED FLOOR DUCO CAST IRON CLEANOUT WITH ROUND ADJUSTABLE SCORIATED SECURED CAST IRON TOP, TAPERED THREAD BRONZE PLUG, REFER TO PLANS FOR SIZES	
UB-1	UTILITY BOX, WASTE, AND SUPPLY	OATLEY QUADTRO	(2) 1/2" SUPPLY VALVES, 2" DRAIN CONNECTION, 1/4" TURN VALVE, PROVIDE WHA-1 (WATER HAMMER ARRESTOR)	
UR-1	URINAL, WALL MOUNT, VITREOUS CHINA	ZURN Z5758	INTEGRAL ELONGATED FLUSHING RIM, INTEGRAL TRAP, 2" FEMALE FLANGED OUTLET CONNECTION, J.R. SMITH 0615 URINAL SUPPORT, FLUSH VALVE ZURN Z6001AV	
VP-1	VACUUM PUMP	OHIO MEDICAL S300-208-TI-V60	25.6 CFM @ 19" HgG., 60 GALLON TANK, SIMPLEX ROTARY VANE VACUUM, VERTICAL TANK MOUNTED SIMPLEX	208V, 3PH, 3HP
WC-1	WATER CLOSET, VITREOUS CHINA, FLUSH VALVE, WALL MOUNTED, ELONGATED RIM, 1.28 GPF	ZURN Z5615 HET SERIES	EZ-FLO 65913 OPEN FRONT SEAT, ZURN Z6000AV-HET 1.28 GPF MANUAL FLUSH VALVE, J.R. SMITH 0210-M54-XK 1000# CARRIER	
WCO-1	WALL CLEANOUT	J. R. SMITH 4510	DUCO CAST IRON CLEANOUT TEE, BRONZE PLUG, REMOVABLE STAINLESS STEEL COVER. REFER TO PLANS FOR SIZE, PROVIDE ROUND OR SQUARE FRAME AND COVER AS REQUIRED, REFER TO ARCHITECT	
WHA-1	WATER HAMMER ARRESTOR	SIOUX CHIEF 650&660 HYDRARESTER	VACURESTER VACUUM BREAKER ARRESTER, TYPE L COPPER CONSTRUCTION, IF AN ACCESS DOOR IS NEEDED CONTACT THE ARCHITECT	

GAS LOAD CALCULATION

GAS LOAD CALCULATION NOTES:
GAS LINES HAVE BEEN SIZED AS PER TABLE 402.4(2) OF THE 2006 INTERNATIONAL FUEL GAS CODE FOR PRESSURES OF 2.0 PSI AND A PRESSURE DROP OF 1.0 PSI AND 0.6 SPECIFIC GRAVITY. USING A DISTANCE OF 400 FEET.

LONGEST RUN	304 (FEET) X 1.25 (FITTING LOSS) = 380 FEET TOTAL DEVELOPED LENGTH
GAS TYPE:	< 0.5 PSI NATURAL

EQUIPMENT	MBH INPUT (EACH)	QTY	TOTAL MBH INPUT
RTU-2	850	1	850
RTU-1, 3, 4	1800	3	5400
GWH-1	199.9	6	1199.4
Grand total			7449.4

PLUMBING PIPING INSULATION SCHEDULE

		INSULATION THICKNESS NOMINAL PIPE SIZE				
DESCRIPTION	INSULATION TYPE	<1	1 TO <1-1/2	1-1/2 TO <4	4 TO <8	≥8
CONDENSATE PIPING ABOVE GRADE	ELASTOMERIC, ADD ASTM E84 COMPLIANT JACKET IN AIR PLENUM SPACES	0.5	1	1	1	1.5
PVC WASTE VENT AND WASTE DRAIN IN AIR PLENUM SPACE	COMPRESSED FIBERGLASS OR ELASTOMERIC WITH ASTM E84 COMPLIANT JACKET	0.5	0.5	0.5	0.5	0.5
WATER COOLER TRAPS, ALL EXPOSED LAVATORY AND SINK TRAPS, TAILPIECES, HOT AND COLD WATER SUPPLY LINES/ANGLE VALVES TO THESE DEVICES	EQUIVALENT TO TRUEBRO 102 E-Z PIPE COVER	0.125	0.125	0.125	0.125	0.125
DOMESTIC COLD WATER, HOT WATER, AND HOT WATER RETURN PIPING ABOVE GRADE	ELASTOMERIC, ADD ASTM E84 COMPLIANT JACKET IN AIR PLENUM SPACES	1	1	1.5	1.5	1.5
PVC WASTE DRAIN IN WALLS, AND WASTE VENT IN ALL AREAS ABOVE GRADE	COMPRESSED FIBERGLASS OR ELASTOMERIC WITH ASTM E84 COMPLIANT JACKET	1"	1"	1.5"	1.5"	1.5"

PIPING MATERIAL SCHEDULE

DESCRIPTION	MATERIAL
ABOVE GROUND GAS	SCHEDULE 40 BLACK STEEL WITH MALLEABLE IRON FITTINGS OR WELDED JOINTS WITH BUTT WELD FITTINGS. PROVIDE CORROSION-RESISTANT MATERIAL ON PIPING EXPOSED TO ATMOSPHERE OR IN CONTACT WITH MATERIAL EXERTING A CORROSIVE ACTION
ABOVE GROUND SANITARY SEWER AND VENT	PVC SCHEDULE 40 PIPE AND FITTINGS EXCEPT IN PLENUM RETURN AREAS. IN PLENUM RETURN AREAS WRAP PVC WITH 1" FIRE WRAP.
COMPRESSED AIR	ASTM A-53 SEAMLESS GALVANIZED STEEL OR COPPER (300 PSIG WORKING PRESSURE). FITTINGS THREADED SUITABLE FOR 300 PSIG WORKING PRESSURE.
FLEXIBLE GAS PIPING INSIDE BUILDING	FOR FINAL CONNECTION TO EQUIPMENT ONLY. CORRUGATED STAINLESS STEEL GAS LINE WITH POLYETHYLENE JACKET AND FITTINGS BY MFG. MUST MEET ANSI, NFPA, FACTORY MUTUAL CODE AND LISTINGS AS AN ACCEPTABLE GAS PIPING MATERIAL, ALL STATE AND LOCAL CODE APPROVALS. PROVIDE PIPING EQUAL TO TRACPIPE BY OMEGA FLEX. SIZE PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
WATER DISTRIBUTION PIPE	WATER DISTRIBUTION PIPE SHALL CONFORM TO NSF 61 AND SHALL BE COPPER AND CONFORM TO THE STANDARDS LISTED IN TABLE 605.4 OF THE I.P.C

ROUGH-IN AND MOUNTING HEIGHT SCHEDULE

NOTES:
1. ALL VENT LINE SIZES SHOWN ARE MINIMUM UNLESS SHOWN LARGER ON RISER DIAGRAMS.
2. SIZES SHOWN FOR WASTE ARE FOR RISERS ONLY.
3. ALL DRAIN AND VENT LINES BELOW SLAB SHALL BE 2" OR LARGER.
4. VENT LINES SHALL RISE 6" ABOVE FLOOD LEVEL RIM BEFORE OFFSETTING HORIZONTALLY, EXCEPT FOR INTERCEPTORS LOCATED OUTDOORS.
5. SIZES SHOWN APPLY UNLESS NOTED DIFFERENTLY ON PLANS.

FIXTURE	WASTE	VENT	COLD WATER	HOT WATER	HEIGHT OF INSTALLATION
DRINKING FOUNTAIN	1-1/2"	1-1/2"	1/2"		NON-ADA 40" TO TOP OF ORIFICE ADA 36" TO TOP OF ORIFICE
EYEWASH STATION			1/2"	1/2"	
FLOOR DRAINS/SINKS	2"	1-1/2"			
HOSE BIBB			3/4"		18" ABOVE GRADE OUTSIDE, 18" A.F.F. INSIDE
JANITOR'S SINK	3"	1-1/2"	1/2"	1/2"	
LAVATORIES AND SINKS, COUNTER MOUNTED	1-1/2"	1-1/4"	1/2"	1/2"	
LAVATORIES AND SINKS, WALL MOUNTED	1-1/2"	1-1/4"	1/2"	1/2"	NON-ADA 31" TO TOP OF RIM ADA 34" TO TOP OF RIM
OPEN HUB DRAIN	2"	1-1/2"			PROVIDE 3" PVC REDUCER, MOUNT AT HEIGHT REQUIRED FOR INSTALL LOCATION
SHOWER	2"	1-1/2"	1/2"	1/2"	MIXING VALVE HANDLE AT 38" MIN. & 48" MAX. A.F.F. (STANDARD AND ADA) SHOWER HEAD: STANDARD 78" * ALL DIMENSIONS TO CENTERLINE OF SHOWER HEAD, ALL ROLL-IN SHOWERS WITH CONTROLS AND HAND SHOWERS LOCATED ON BACKWALL SHALL BE LOCATED WITHIN 15" LEFT OR RIGHT OF CENTERLINE
SUPPLY BOX			1/2"		12" TO BOTTOM OF BOX
URINAL FLUSH VALVE WALL MOUNTED	1-1/2"	1-1/4"	1"		NON-ADA 24" TO TOP OF FLOOD LEVEL ADA 17" TO TOP OF FLOOD LEVEL
UTILITY BOX	2"	1-1/2"	1/2"	1/2"	36" TO BOTTOM OF BOX
WATER CLOSET FLUSH VALVE WALL MOUNTED	3"	1-1/2"	1-1/4"		NON-ADA 15" TO TOP OF BOWL ADA 17" TO TOP OF BOWL

PLUMBING PIPE LEGEND

DESCRIPTION	TAG	LINETYPE
COLD WATER	CW	
CONDENSATE	CD	
FIRE	F	
FORCED MAIN	FM	
GAS	G	
HOT WATER	HW	
IRRIGATION	IR	
MEDICAL AIR	MA	
MEDIUM PRESSURE GAS	MPG	
MEDICAL VACUUM	VAC	
SANITARY SEWER	SS	
VENT	V	

PLUMBING SYMBOL LEGEND

D.F.U.	DRAIN FIXTURE UNITS		HWAT TAPE
GPM	GALLONS PER MINUTE		FROST PROOF HOSE BIBB (FPHB-1)
F.L.	FLOW LINE INVERT	FD-1	FLOOR DRAIN
M	WATER/GAS METER	SWD-1	SAFE WASTE DRAIN
R	REGULATOR		FLOOR SINK
	PRESSURE REDUCING VALVE	WCO-1/ SCO-1	WALL CLEAN OUT/ STACK CLEAN OUT
	CONTINUATION	FCO	FLOOR CLEANOUT
	BALL VALVE	COTG-1/ TWCO-1	CLEAN OUT TO GRADE/ TWO-WAY CLEAN OUT
	MIXING VALVE	X / X	INDICATES DETAIL NUMBER / INDICATES SHEET NUMBER
UB-1/ SB-1	UTILITY BOX/ SUPPLY BOX	HOR. OR VERT.	BACKFLOW PREVENTER (RPZ-1)

GENERAL PLUMBING NOTES

1	THE ENTIRE PLUMBING SYSTEM SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE INTERNATIONAL PLUMBING CODE REGULATIONS AND LOCAL PLUMBING INSPECTOR.
2	THE PIPING INDICATED ON THESE PLANS ARE DIAGRAMMATICAL. ALL WORK SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION. CONTRACTOR SHALL COORDINATE ROUTING OF ALL PIPING WITH EXISTING CONDITIONS AND SHALL PROVIDE ANY NECESSARY OFFSETS, REROUTING, TEES, ELBOWS, ETC. REQUIRED FOR A COMPLETE AND COORDINATED INSTALLATION.
3	THE CONTRACTOR SHALL OBTAIN AND PAY ALL FEES RELATED TO PERMITTING, INSPECTIONS, TAP-ON FEES, ETC.
4	THE CONTRACTOR SHALL COORDINATE ANY PLUMBING OR PIPING SYSTEM SHUTDOWN WITH THE OWNER 48 HOURS IN ADVANCE.
5	ALL DOMESTIC WATER, NATURAL GAS, COMPRESSED AIR, AND VACCUM PIPING SHOWN IS ABOVE CEILING, EXPOSED OVERHEAD, AND WITHIN WALLS UNLESS OTHERWISE NOTED. WATER HAMMER ARRESTORS SHALL BE INSTALLED AT DISHWASHERS, WASHING MACHINES, SUPPLY BOXES, AND QUICK CLOSING VALVES NOT LISTED. INSTALL WHA-1 AS CLOSE TO QUICK CLOSING VALVE AS POSSIBLE PER MANUFACTURES RECOMMENDATIONS. ISOLATION VALVES SHALL BE INSTALLED ON ALL SUPPLY FIXTURE GROUPS AND HOT WATER BALANCING VALVES.
6	FROST PROOF HOSE BIBBS AND SUPPLY PIPING SHALL BE INSTALLED ON THE INSIDE OF THE INSULATION. SEAL SHEATHING PENETRATION TO PREVENT AIR FROM REACHING THE VALVE.
7	ALL SANITARY WASTE PIPING SHOWN IS BELOW SLAB, BELOW FLOOR, OR WITHIN WALLS UNLESS OTHERWISE NOTED. ALL SANITARY VENT PIPING SHOWN IS ABOVE CEILING, EXPOSED OVERHEAD, OR WITHIN WALLS UNLESS OTHERWISE NOTED.
8	FLOOR DRAINS ARE TO BE THE SAME SIZE AS THE DRAIN LINE IT CONNECTS UNLESS NOTED OTHERWISE. IF SIZE IS NOT INDICATED ON DRAWINGS REFER TO PLUMBING ROUGH-IN SCHEDULE FOR PROPER SIZE.
9	FLUSH CONTROLS FOR HANDICAPPED WATER CLOSETS ARE TO BE MOUNTED TO THE OPEN SIDE OF THE TOILET AREAS.
10	CONTRACTOR SHALL COORDINATE AND PROVIDE ALL NECESSARY PIPING & PLUMBING FITTINGS, PIPING, MISCELLANEOUS ITEMS REQUIRED FOR A COMPLETE INSTALLATION OF ALL PLUMBING RELATED ITEMS.
11	ALL PIPING ON ROOF SHALL BE ANCHORED TO STEEL RIB FASTENERS APPROVED BY THE ROOF MANUFACTURER. INSTALL ANCHORS PER MANUFACTURERS RECOMMENDATION.
12	THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL UNDER SLAB PIPING WITH EXISTING STRUCTURAL FOUNDATIONS. UNDERGROUND UTILITY LOCATIONS SHALL BE VERIFIED PRIOR TO ANY WORK BEING PERFORMED. CONTRACTOR SHALL REPAIR OR REPLACE ALL PIPING NOT IN PROPER WORKING ORDER OR DAMAGED DURING INSTALLATION OF THE NEW UNDERGROUND PIPING.
13	ALL PLUMBING & PIPING SYSTEMS SHALL BE SUPPORTED AS REQUIRED BY THE LOCAL CODE REQUIREMENTS AND PER MANUFACTURER'S RECOMMENDATIONS.
14	ALL PIPING PENETRATIONS THROUGH NEW, EXISTING WALL, OR FLOOR SHALL BE SEALED TO EQUAL THE RATING OF THE NEW, EXISTING WALL OR FLOOR.
15	THE PLUMBING SYSTEM SHALL BE TESTED AS REQUIRED BY LOCAL CODE OR BY THE REQUIREMENTS OF THE LOCAL PLUMBING INSPECTOR.
16	THE ENTIRE DOMESTIC WATER SYSTEM (EXISTING/NEW) SHALL BE DISINFECTED IN ACCORDANCE TO THE LOCAL CODE & HEALTH DEPARTMENT REQUIREMENTS.
17	DOMESTIC WATER AND SEWER LOCATED OUTSIDE OF FOOTING SHALL MAINTAIN A MINIMUM OF 10' SEPARATION UNLESS WRITTEN PERMISSION IS OBTAINED FROM LOCAL AUTHORITIES AND/OR PROPER CONTAMINATION PROVISIONS PER LOCAL CODE HAVE BEEN MET.
18	FINISHED FLOOR ELEVATION (F.F.E.) SHALL BE 0.00' FOR CALCULATION PURPOSES ONLY, UNLESS NOTED OTHERWISE.
19	THE BACKFLOW PREVENTION DEVICE SHALL BE INSTALLED PER LOCAL CODE & PER AUTHORITY HAVING JURISDICTION REQUIREMENTS. NON-LEAD TYPE ONLY.
20	ALL VENT THRU ROOF (VTR'S) PENETRATIONS INDICATED ON PLANS ARE PRELIMINARY. FINAL LOCATIONS SHALL BE COORDINATED WITH ALL TRADES. ALL VTR'S SHALL BE A MINIMUM OF 10'-0" FROM ALL FRESH AIR INTAKE OPENINGS.
21	ANY PVC PIPE PENETRATING A FIRE RATED ASSEMBLY SHALL BE EXTERNALLY SLEEVED WITH STEEL, FERROUS, OR COPPER MATERIALS, SECURELY FASTENED TO THE FIRE RATED ASSEMBLY. ANY SPACE BETWEEN THE SLEEVE AND THE FIRE RATED ASSEMBLY PENETRATED SHALL BE PROTECTED USING MATERIAL THAT CONFORMS TO ASTM E 814 OR UL 1479, SUCH AS FIRE STOP FS-1900 OR FLAME STOPPER 5000.
22	CONTRACTOR SHALL MAKE ALL FINAL CONNECTIONS FOR DISHWASHER, WASHING MACHINE, REFRIGERATOR, ETC.
23	PROVIDE SHUT-OFF VALVES FOR PROPER OPERATION AND SERVICING OF DOMESTIC WATER DISTRIBUTION SYSTEM. LOCATION SHALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING: AT EACH FIXTURE GROUP, AT EACH BRANCH TAKE-OFF FROM MAINS AND AT THE BASE OF EACH RISER. COORDINATE WITH ARCHITECTURAL PLAN FOR ACCESS DOOR LOCATIONS.
24	VALVES SHALL BE LOCATED 6" ABOVE ACCESSIBLE CEILING WHEN AT ALL POSSIBLE AND SHALL BE CLEAR OF ANY OBSTRUCTIONS FROM OTHER TRADES. MAINTENANCE SHALL BE ABLE TO ACCESS VALVES WITH STANDARD LADDER. SHOULD LOCATION NOT BE APPLICABLE CONTRACTOR SHALL PROVIDE A CONTROL CHAIN AND/OR ARM.
25	TEMPERED WATER, NOT EXCEEDING A MAXIMUM OF 110° F, SHALL BE DELIVERED FROM PUBLIC HANDWASHING FACILITIES THROUGH AN APPROVED WATER TEMPERATURE LIMITING DEVICE THAT CONFORMS TO ASSE 1070.
26	IT IS THE PLUMBING CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH THE SITE CONTRACTOR TO CONFIRM THAT THE INVERTS AND LOCATIONS OF THE BUILDING UTILITIES ARE COMPATABLE WITH THE SITE UTILITIES PRIOR TO BEGINNING WORK.
27	CONTRACTOR SHALL PROVIDE A PRESSURE REDUCING VALVE (PRV-1) SHOULD THE WATER PRESSURE EXCEED 75 PSI. CONTRACTOR SHALL CONFIRM WITH ON SITE CONDITIONS AND LOCAL UTILITY.
28	ALL GAS PIPING ON ROOF SHALL BE PAINTED YELLOW, TYPICAL.

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PROFESSIONAL SEAL:
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Osteopathic Medicine
AT THE CHEROKEE NATION
TAHLEQUAH, OKLAHOMA

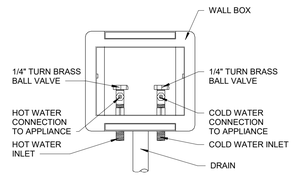
KEY PLAN:

PROJECT PHASE:
95% CONSTRUCTION DOCUMENTS

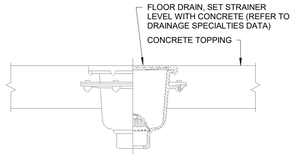
REVISIONS		
#	DATE	DESCRIPTION

DATE: 07-26-19
JOB NUMBER: 17-13
SHEET NUMBER: P1.00

PLUMBING LEGENDS, NOTES AND SCHEDULES

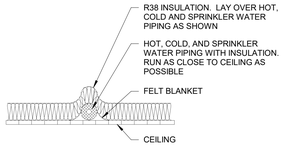


16 UTILITY BOX
N.T.S.

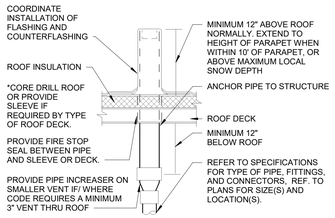


17 FLOOR SINK
N.T.S.

NOTE:
PROVIDE HOLDRITE SILENCER SYSTEM FOR PLUMBING IN AREAS OF ACOUSTICAL REQUIREMENTS. CONTRACTOR SHALL CONFIRM WITH ARCHITECTURAL PLANS TO INDENTIFY ACOUSTICAL AREAS.

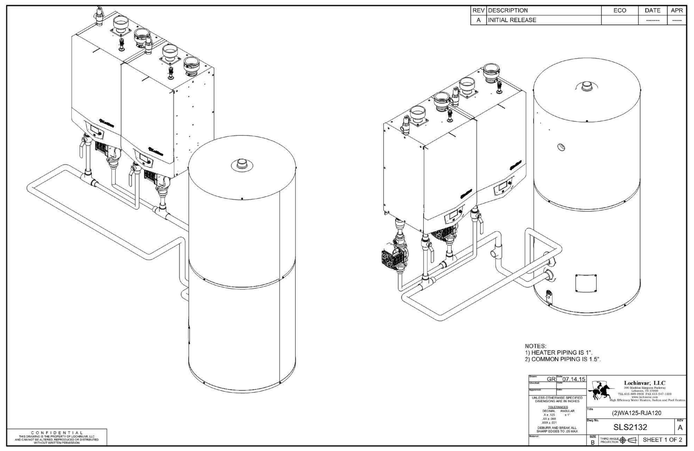


18 CEILING PIPE INSULATION
N.T.S.

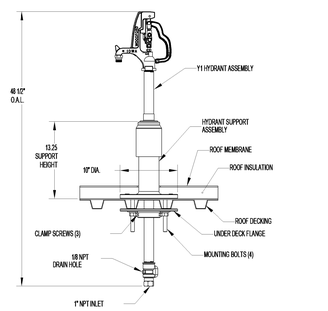


LOCATE VTR MINIMUM THREE FEET FROM PROPERTY LINE, TEN FEET HORIZONTAL OR THREE FEET VERTICAL ABOVE ANY BUILDING OPENING OR FRESH AIR INTAKE, AND ONE FOOT FROM ANY VERTICAL SURFACE. REFER TO LOCAL CODES FOR OTHER VENT TERMINATION REQUIREMENTS. LOCATE VTR MINIMUM 18" FROM ADJACENT WALL, PARAPET, EXPANSION JOINT, ROOF DRAIN, EQUIPMENT CURB, OR OTHER ROOF FEATURE. OFFSET IN CEILING SPACE WHERE REQUIRED TO MEET THESE CONDITIONS. INSULATE LAST SIX FEET OF VENT PIPE INSIDE BUILDING PER SPECIFICATIONS.

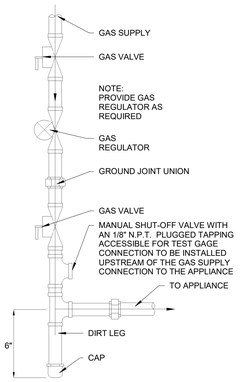
19 VENT THRU ROOF ("VTR")
N.T.S.



20 GAS WATER HEATER - TANKLESS w/STORAGE TANK
N.T.S.

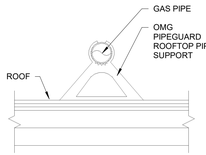


10 ROOF HYDRANT
1/4" = 1'-0"



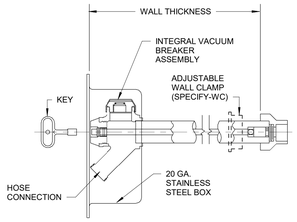
11 GAS CONNECTION
N.T.S.

NOTE:
CONFIRM WITH OWNER TYPE OF SUPPORT TO BE USED. SET HEIGHT OR ADJUSTABLE HEIGHT.

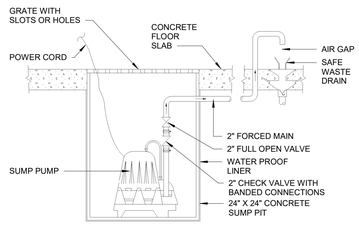


LOCATE AT 4' SPACING FOR PLASTIC PIPE.
LOCATE AT FOLLOWING SPACING FOR METAL PIPE-
4" = 14', 3" = 12', 2-1/2" = 11', 2" = 10', 1-1/2" = 9', 1-1/4" = 8', 1" = 7', 3/4" =6'
PLACE A SUPPORT AS CLOSE AS POSSIBLE TO EACH ELBOW AND TEE. INSTALL PIPE TO ALLOW FOR EXPANSION AND CONTRACTION. INSTALL PER MANUFACTURES REQUIREMENTS.

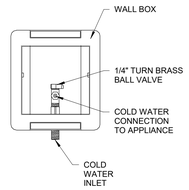
12 GAS PIPE SUPPORT ON ROOF - PLASTIC
N.T.S.



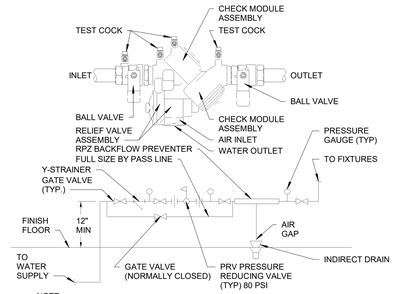
13 NON-FREEZE WALL HYDRANT
N.T.S.



14 SUMP PUMP WITH AIR GAP
N.T.S.

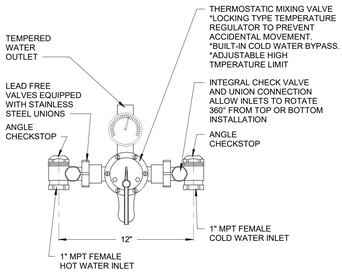


15 SUPPLY BOX
N.T.S.

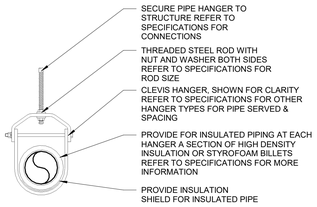


NOTE:
1. CLEARANCES OF 2' IN FRONT AND 1' @ BACK AND SIDES OF BACKFLOW PREVENTER REQUIRED.
2. RPZ SHALL BE BETWEEN 12" AND 30" MAX A.F.F.
3. PRESSURE SHALL BE SET TO 80 PSI UP TO 4 STORIES AND 100 PSI FOR 5 TO 10 STORIES.

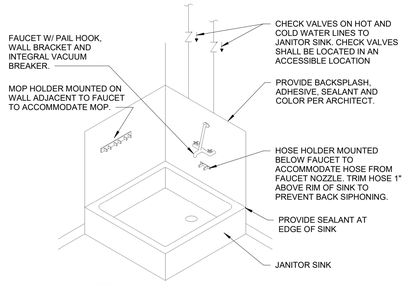
5 BACKFLOW PREVENTER DETAIL - HORIZONTAL
N.T.S.



6 EMERGENCY MIXING VALVE
N.T.S.

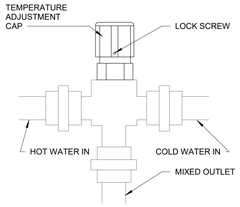


7 PIPE HANGER DETAIL
N.T.S.

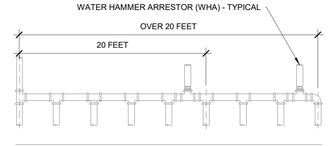


NOTE:
STYLE AND TYPE OF JANITOR SINK MAY VARY.

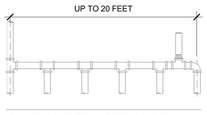
8 JANITOR'S SINK - SQUARE
N.T.S.



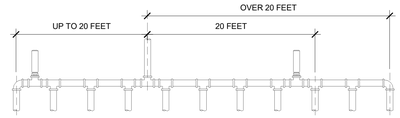
9 POINT OF USE - THERMOSTATIC MIXING VALVE
N.T.S.



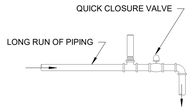
MULTIPLE FIXTURES FED FROM ONE SIDE (B)



MULTIPLE FIXTURES FED FROM ONE SIDE (A)



MULTIPLE FIXTURES FED FROM CENTRAL MAIN



REMOTE FIXTURES

GENERAL WHA NOTES:

LOCATE THE WHA IN A MULTIPLE FIXTURE SYSTEM AT THE END OF THE BRANCH LINE BETWEEN THE LAST TWO FIXTURES SERVED.

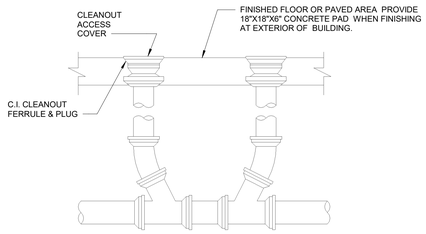
FOR REMOTE INSTALLATIONS THE WHA SHOULD BE PLACED AS CLOSE TO THE POINT OF VALVE CLOSURE AS POSSIBLE.

INSTALL WHA's APPROVED FOR SEALED-WALL INSTALLATION ON WATER LINES CONNECTED TO SOLENOID VALVES OR FLUSH VALVES. SIZE, LOCATE, AND INSTALL IN ACCORDANCE WITH PDI STANDARD WH 201.

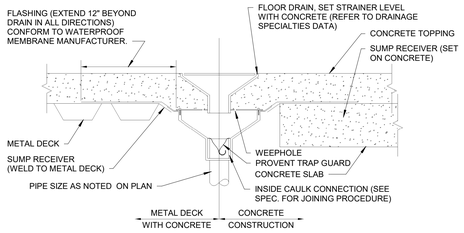
IDEALLY THE FLOW PRESSURE IN BRANCH LINES SERVING FIXTURES SHOULD NEVER EXCEED 55 P.S.I.G.

PROVIDE ACCESS PANEL AT EACH LOCATION WHERE THERE IS NOT AN ACCESSIBLE CEILING. MINIMUM SIZE OF 8" x 8".

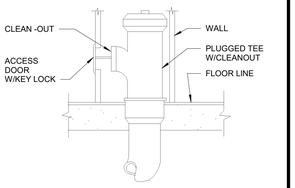
1 WATER HAMMER ARRESTOR INSTALLATION DETAIL
SCALE: N.T.S.



2 TWO WAY CLEANOUT
N.T.S.



3 FLOOR DRAIN
N.T.S.



4 WALL AND STACK CLEANOUT
N.T.S.

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TAHLEQUAH, OKLAHOMA

KEY PLAN:

PROJECT PHASE:
95% CONSTRUCTION DOCUMENTS

REVISIONS		
#	DATE	DESCRIPTION

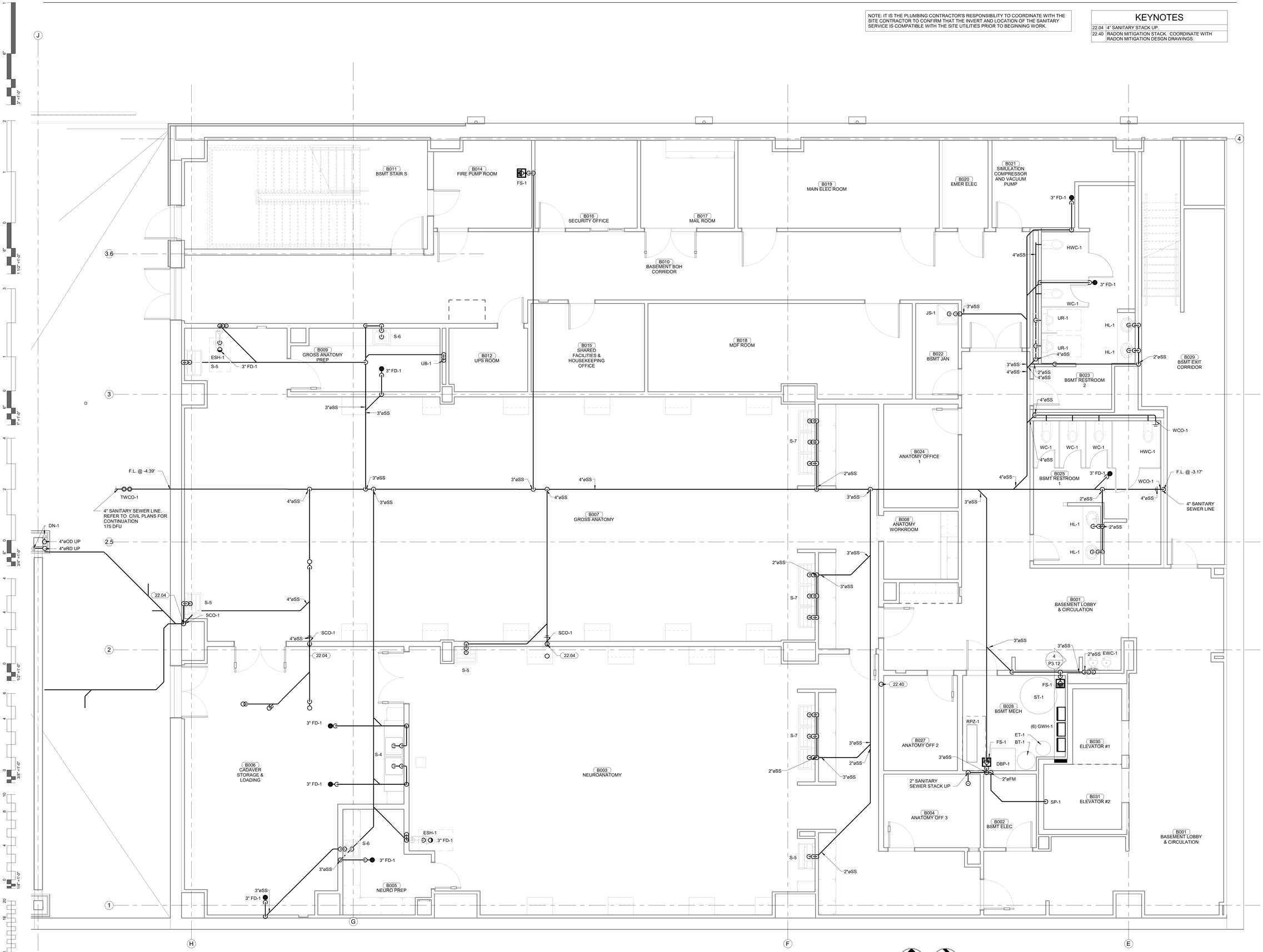
DATE: 07-26-19
JOB NUMBER: 17-13
SHEET NUMBER: P1.01

PLUMBING DETAILS

NOTE: IT IS THE PLUMBING CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH THE SITE CONTRACTOR TO CONFIRM THAT THE INVERT AND LOCATION OF THE SANITARY SERVICE IS COMPATIBLE WITH THE SITE UTILITIES PRIOR TO BEGINNING WORK.

KEYNOTES

22.04	4" SANITARY STACK UP.
22.40	RADON MITIGATION STACK. COORDINATE WITH RADON MITIGATION DESGN DRAWINGS.



1 PLUMBING DRAIN PLAN - BASEMENT LEVEL

1/4" = 1'-0"

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KEY PLAN:

02 01

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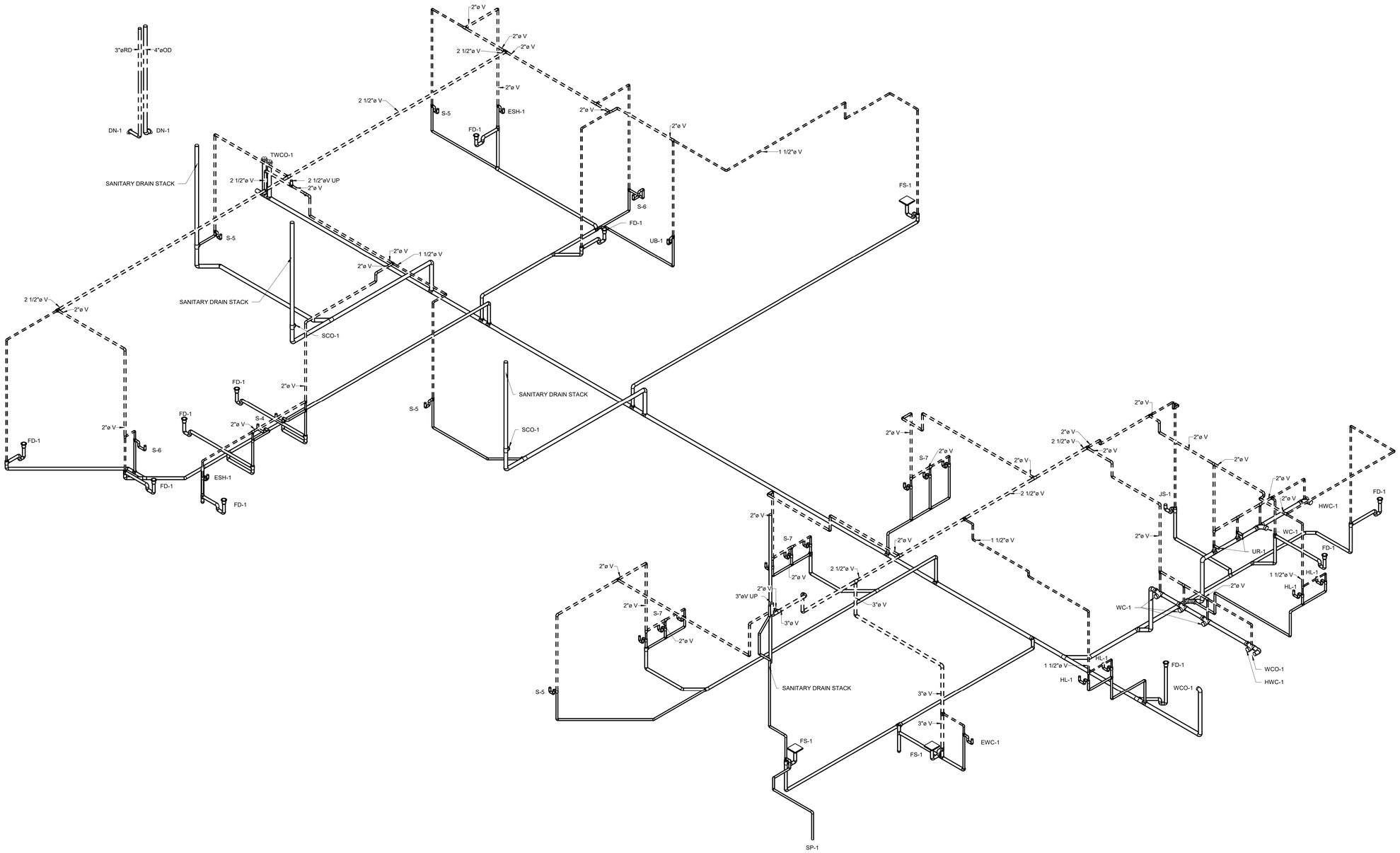
DATE:	JOB NUMBER:
07-26-19	17-13

SHEET NUMBER:

P2.00

PLUMBING DRAIN PLAN - BASEMENT LEVEL



1 **PLUMBING VENT ISOMETRIC BASEMENT LEVEL**

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REVISIONS

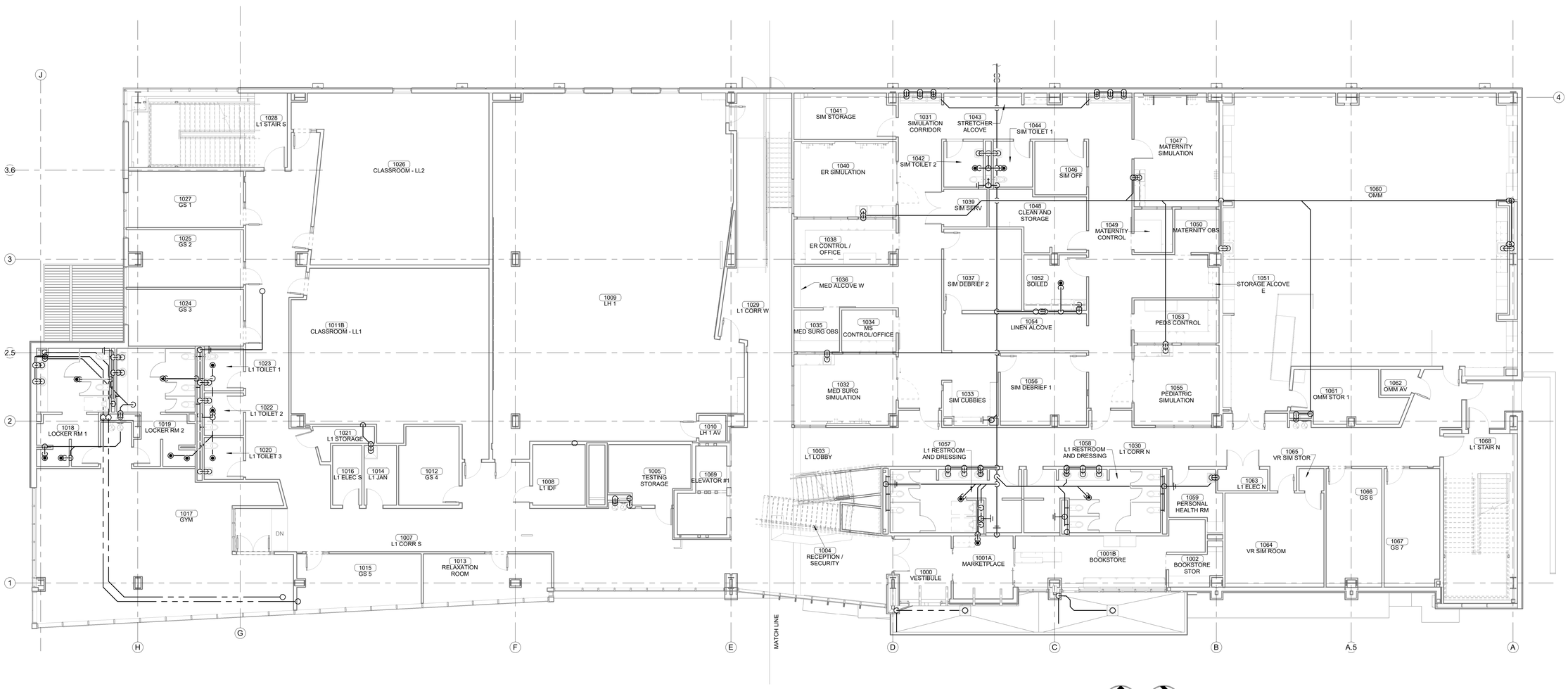
#	DATE	DESCRIPTION

DATE:	JOB NUMBER:
07-26-19	17-13

SHEET NUMBER:

P2.01

PLUMBING DRAIN/VENT ISOMETRIC BASEMENT LEVEL



1 OVERALL PLUMBING DRAIN PLAN - LEVEL 01

1/8" = 1'-0"

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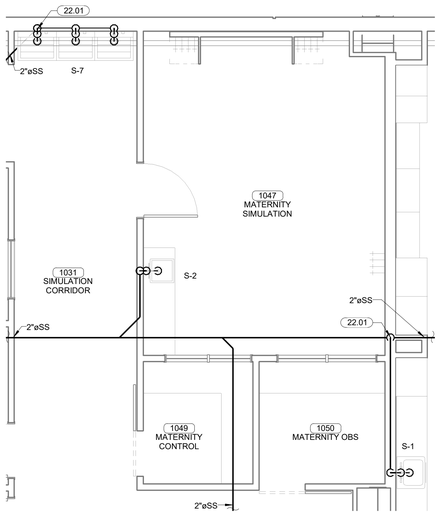
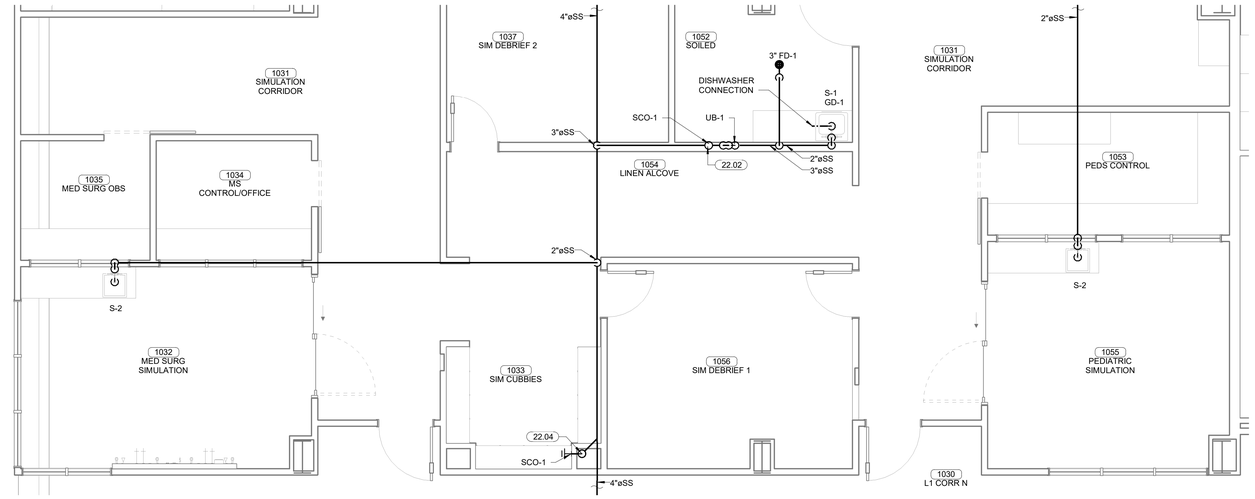
OVERALL DRAIN PLAN - LEVEL 1



4 ENLARGED DRAIN PLAN - LEVEL 01 SECTOR 01 - MATERNITY SIM

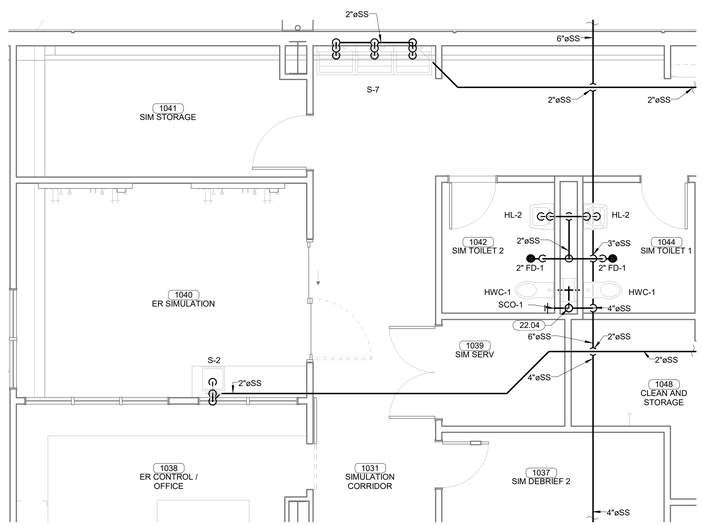
1/4" = 1'-0"

KEYNOTES	
22.01	DIRTY PIPING NEW 2" DRAIN LINE IN WALL TO MAIN DRAIN LINE.
22.02	2" SANITARY STACK UP.
22.03	3" SANITARY STACK UP.
22.04	4" SANITARY STACK UP.
22.05	6" BUILDING DRAIN LINE. REFER TO CIVIL PLANS FOR CONTINUATION. 243 D.F.U.
22.37	3" ROOF DRAIN. REFER TO CIVIL PLANS FOR CONTINUATION.



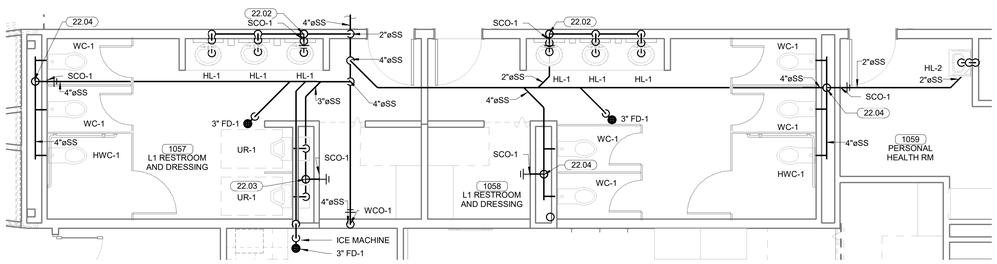
5 ENLARGED DRAIN PLAN - LEVEL 01 SECTOR 01 - SIMULATION

1/4" = 1'-0"



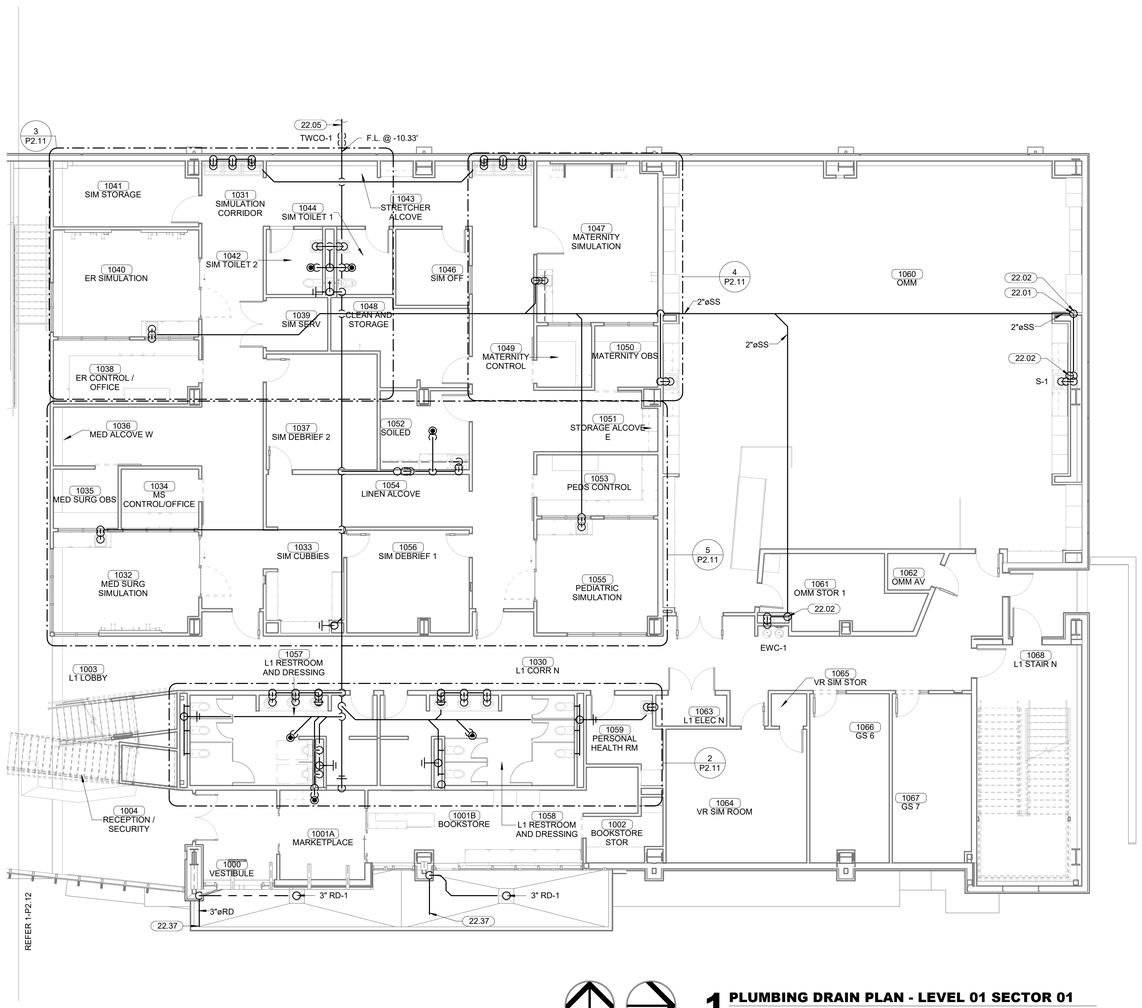
3 ENLARGED DRAIN PLAN - LEVEL 01 SECTOR 01 - ER SIM

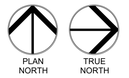
1/4" = 1'-0"



2 ENLARGED DRAIN PLAN - LEVEL 01 SECTOR 01 - MAIN RESTROOMS

1/4" = 1'-0"





1 PLUMBING DRAIN PLAN - LEVEL 01 SECTOR 01

1/8" = 1'-0"

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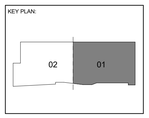
KEY PLAN:



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DOCUMENTS

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SHEET NUMBER:

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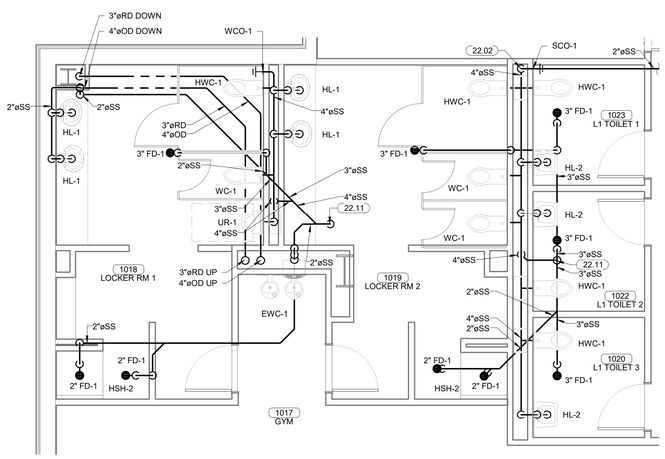
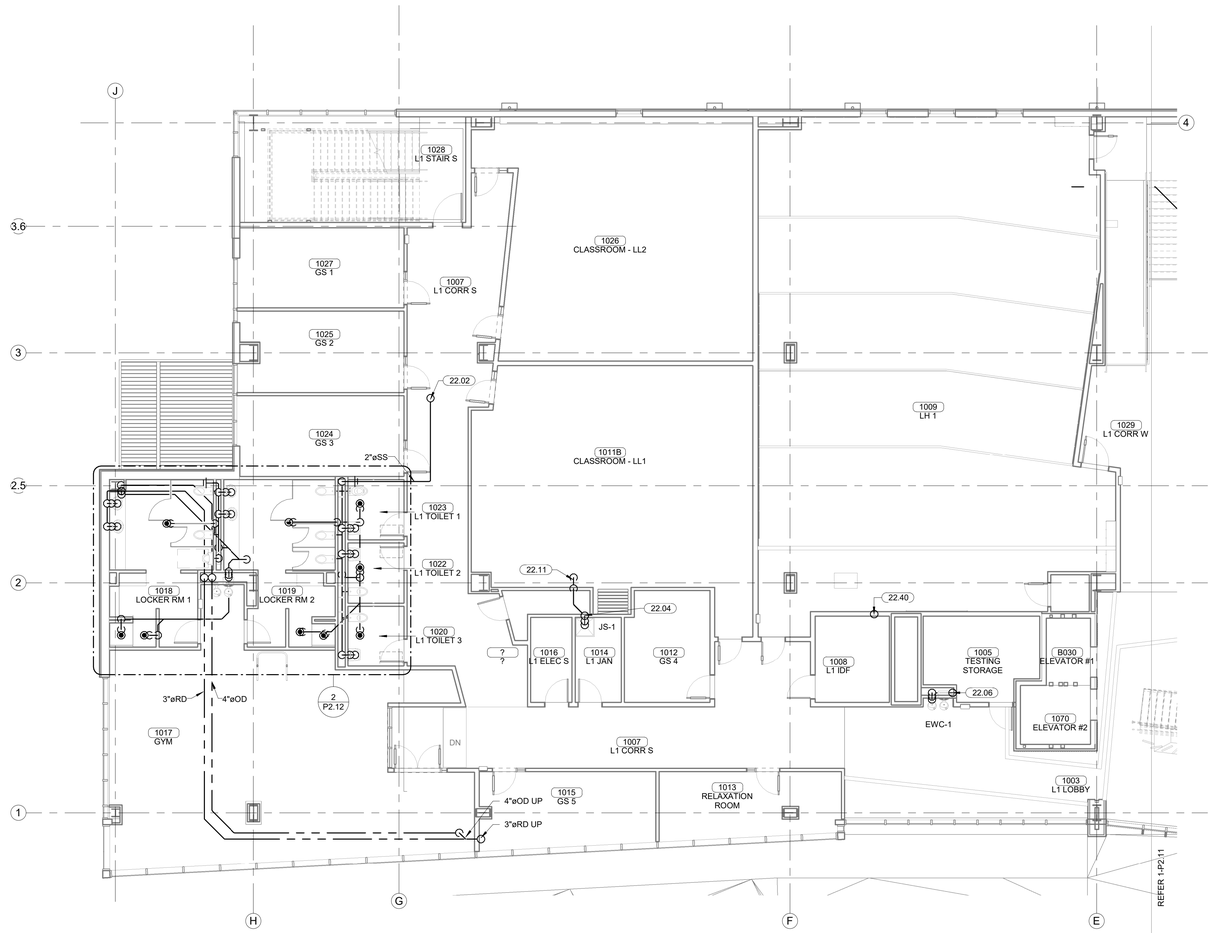
PLUMBING DRAIN PLAN -
LEVEL 01 SECTOR 01

KEYNOTES	
22.02	2" SANITARY STACK UP.
22.04	4" SANITARY STACK UP.
22.06	2" SANITARY STACK UP AND DOWN.
22.11	4" SANITARY STACK DOWN.
22.40	RADON MITIGATION STACK. COORDINATE WITH RADON MITIGATION DESGN DRAWINGS.



2 ENLARGED DRAIN PLAN - LEVEL 01 SECTOR 02 - LOCKER ROOMS
1/4" = 1'-0"



PLAN NORTH

TRUE NORTH

1 PLUMBING DRAIN PLAN - LEVEL 01 SECTOR 02
1/8" = 1'-0"

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TAHLEQUAH, OKLAHOMA

KEY PLAN:

02 01

PROJECT PHASE:

95% CONSTRUCTION DOCUMENTS

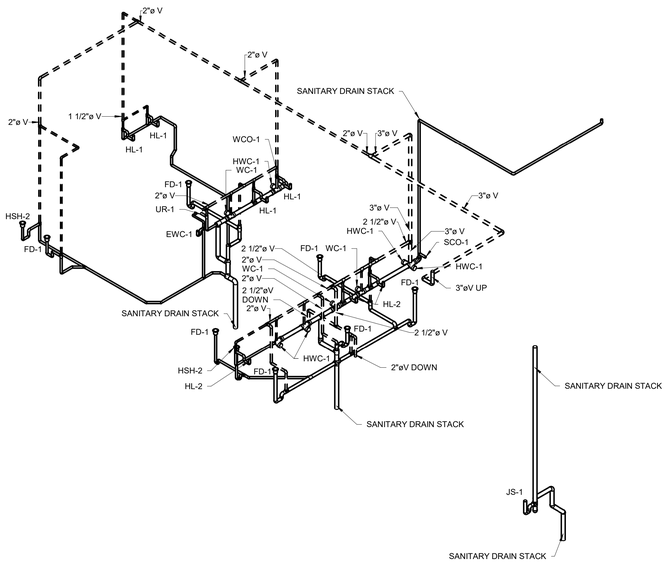
REVISIONS		
#	DATE	DESCRIPTION

DATE:	JOB NUMBER:
07-26-19	17-13

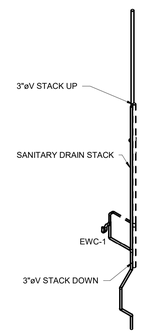
SHEET NUMBER:

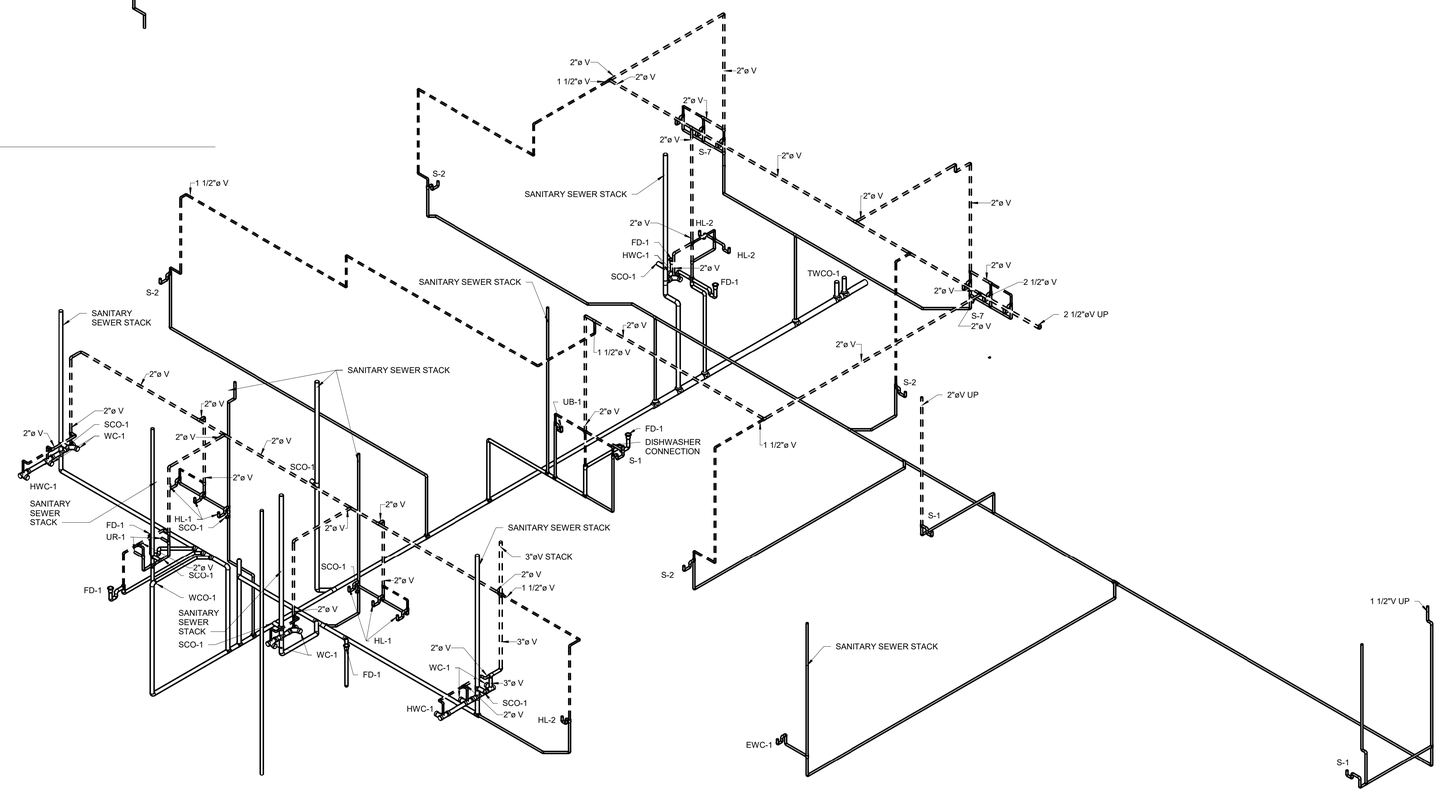
P2.12

PLUMBING DRAIN PLAN - LEVEL 01 SECTOR 02



2 LEVEL 01 - PLUMBING VENT ISOMETRIC - SECTOR 02





1 LEVEL 01 - PLUMBING VENT ISOMETRIC - SECTOR 01

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CONSULTANT LOGO:

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PROJECT NO. 18163R

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02 | 01

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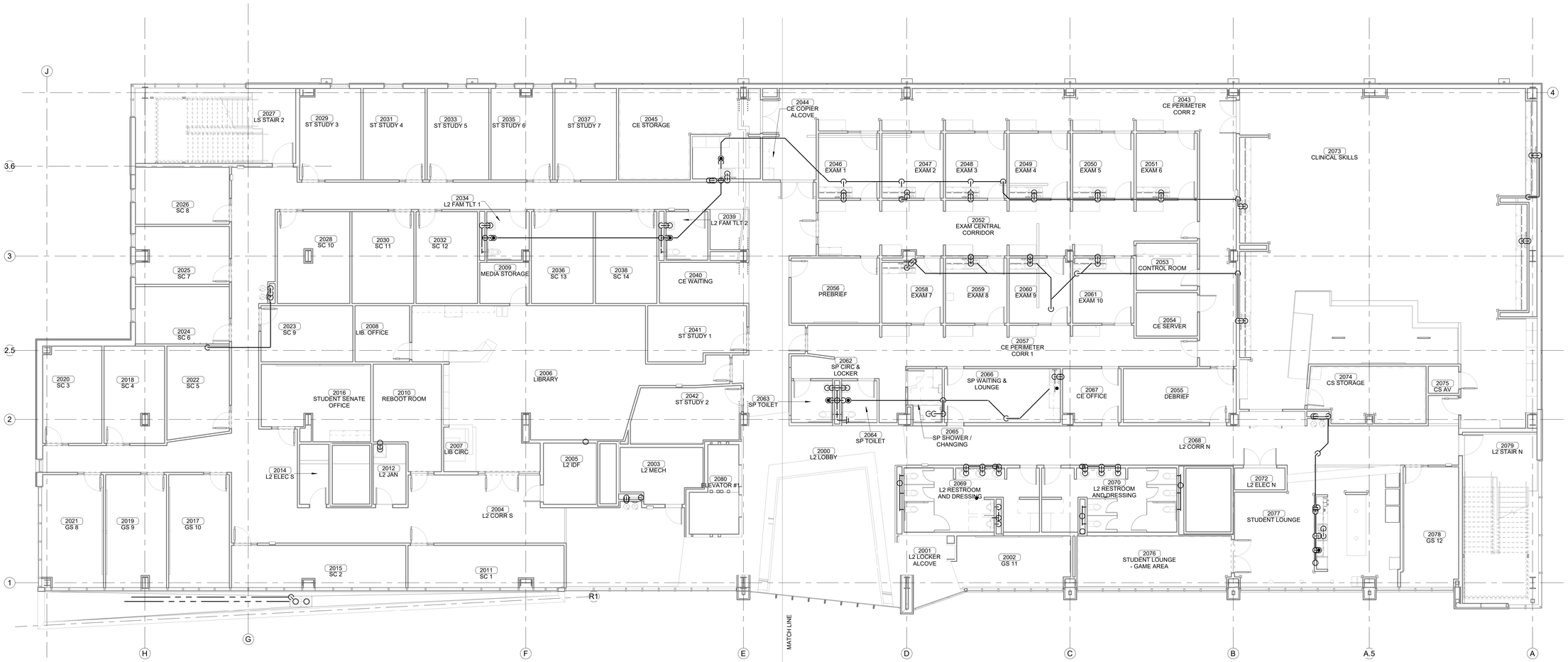
PLUMBING DRAIN/VENT ISOMETRIC LEVEL 01



1 OVERALL PLUMBING DRAIN PLAN - LEVEL 02
1/8" = 1'-0"

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07-26-19	17-13

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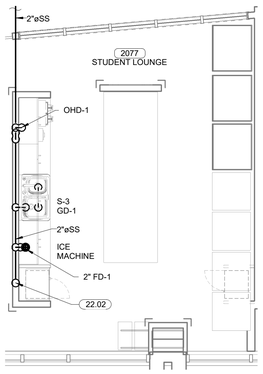
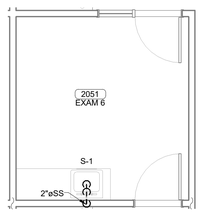
OVERALL DRAIN PLAN - LEVEL 02

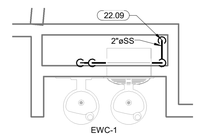
KEYNOTES	
22.01	DIRTY PIPING NEW 2" DRAIN LINE IN WALL TO MAIN DRAIN LINE.
22.02	2" SANITARY STACK UP.
22.03	3" SANITARY STACK UP.
22.04	4" SANITARY STACK UP.
22.06	2" SANITARY STACK UP AND DOWN.
22.08	4" SANITARY STACK UP AND DOWN.
22.09	2" SANITARY STACK DOWN.
22.10	3" SANITARY STACK DOWN.
22.11	4" SANITARY STACK DOWN.



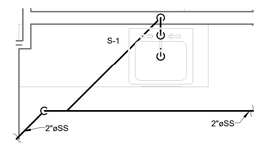
4 ENLARGED DRAIN PLAN - LEVEL 02 SECTOR 01 - STUDENT LOUNGE
1/4" = 1'-0"



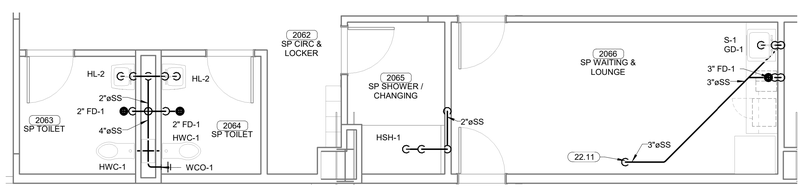
5 ENLARGED DRAIN PLAN - LEVEL 02 SECTOR 01 - TYPICAL EXAM ROOM
1/4" = 1'-0"



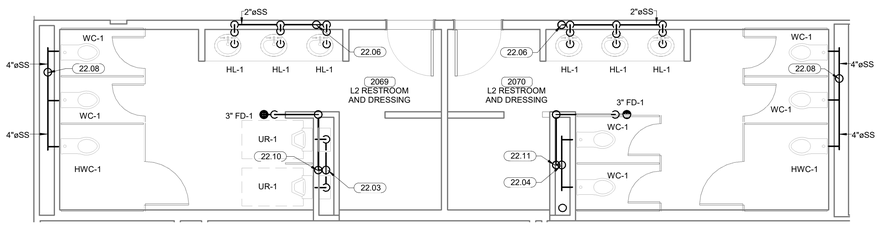
6 ENLARGED DRAIN PLAN - LEVEL 02 SECTOR 01 - DRINKING FOUNTAIN
1/2" = 1'-0"



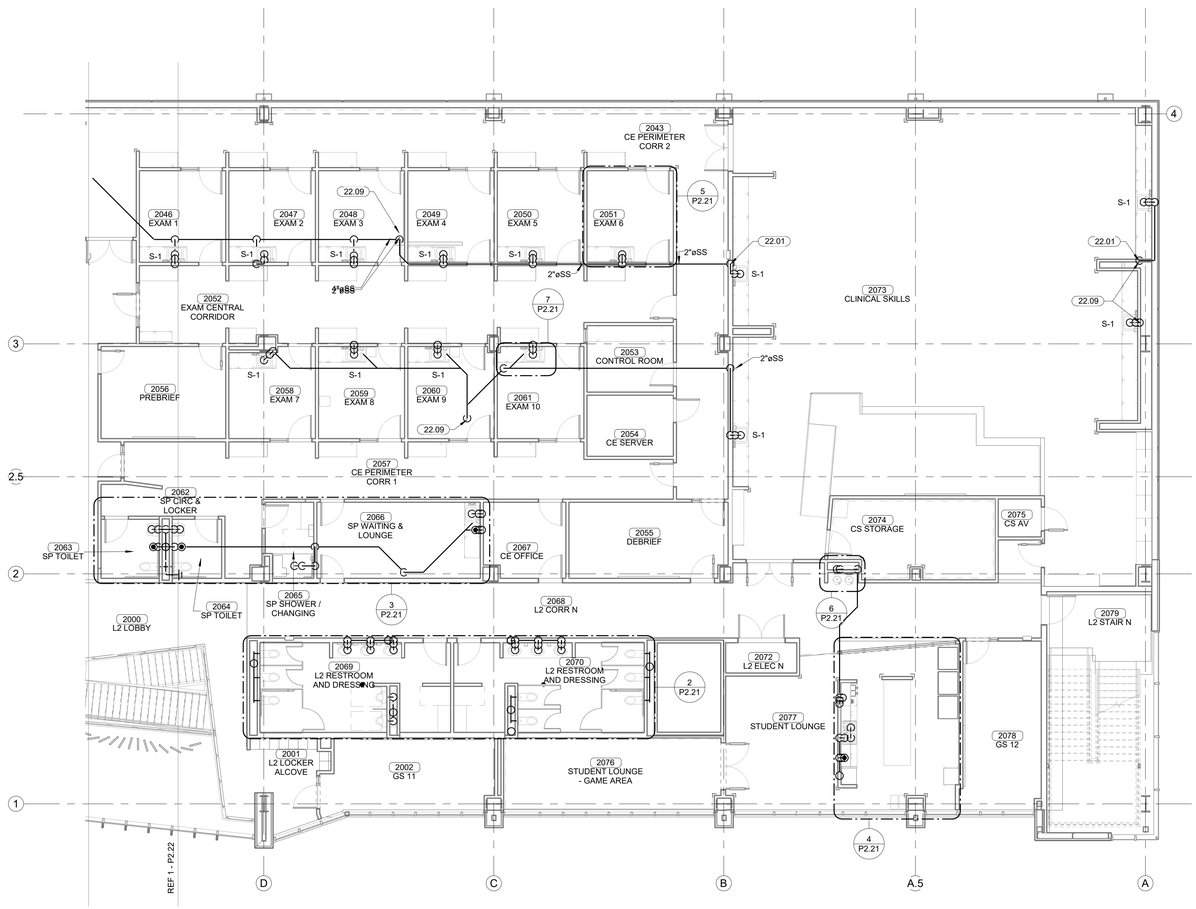
7 ENLARGED DRAIN PLAN - LEVEL 02 SECTOR 01 - TYPICAL SINK
1/2" = 1'-0"



3 ENLARGED DRAIN PLAN - LEVEL 02 SECTOR 01 - SP CIRC & LOCKER
1/4" = 1'-0"



2 ENLARGED DRAIN PLAN - LEVEL 02 SECTOR 01 - MAIN RESTROOMS
1/4" = 1'-0"



PLAN NORTH

TRUE NORTH

1 PLUMBING DRAIN PLAN - LEVEL 02 SECTOR 01
1/8" = 1'-0"

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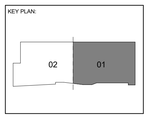
KEY PLAN:



PROJECT PHASE:

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07-26-19	17-13

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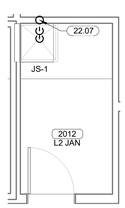
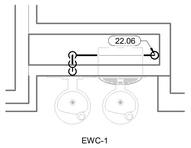
PLUMBING DRAIN PLAN - LEVEL 02 SECTOR 01

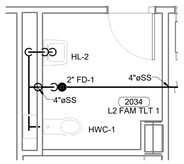
KEYNOTES	
22.06	2" SANITARY STACK UP AND DOWN.
22.07	3" SANITARY STACK UP AND DOWN.
22.09	2" SANITARY STACK DOWN.
22.40	RADON MITIGATION STACK. COORDINATE WITH RADON MITIGATION DESGN DRAWINGS.



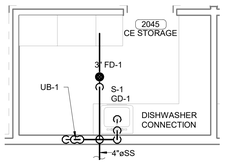
4 **ENLARGED DRAIN PLAN - LEVEL 02 SECTOR 02 - TYPICAL JAN.**
1/4" = 1'-0"



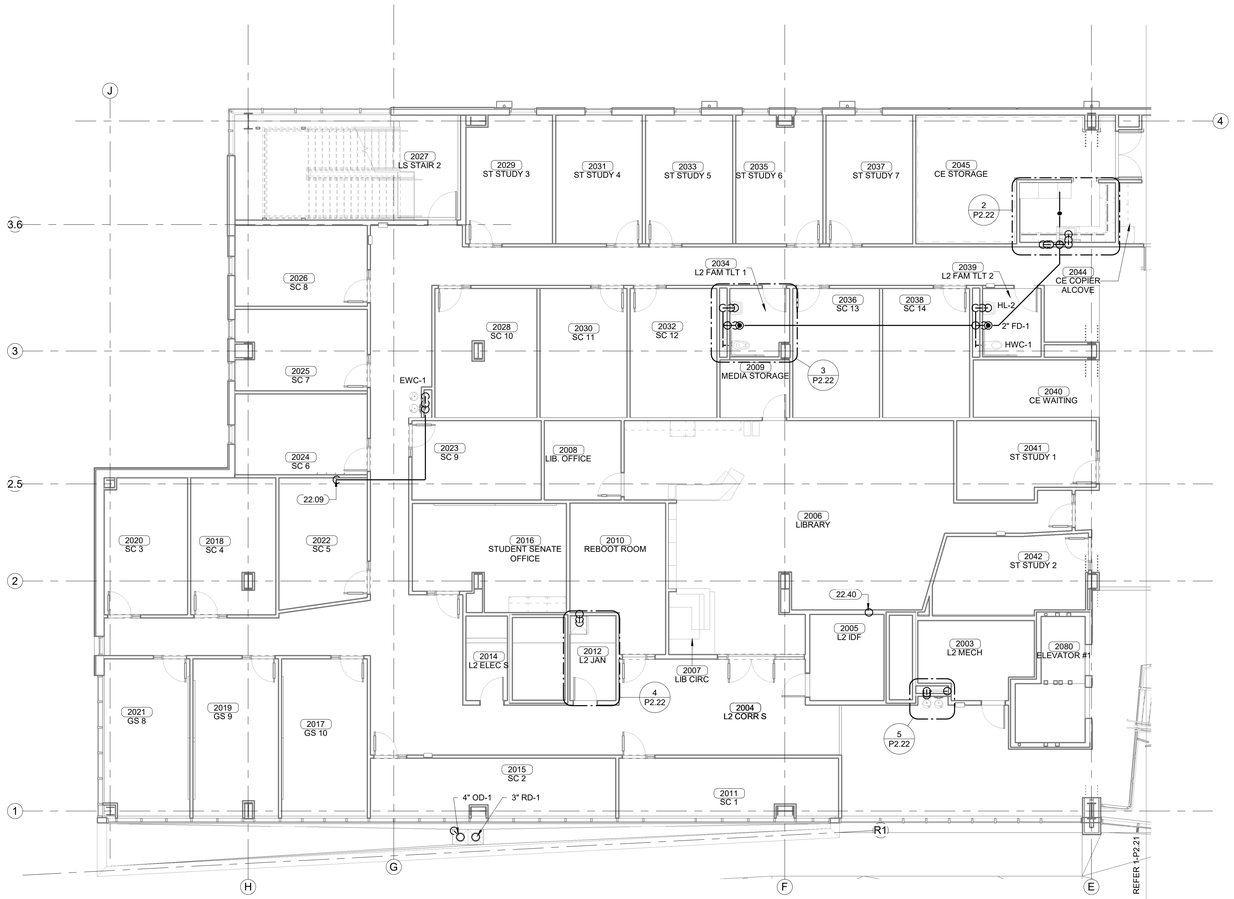
5 **ENLARGED DRAIN PLAN - LEVEL 02 SECTOR 02 - DRINKING FOUNTAIN**
1/2" = 1'-0"



3 **ENLARGED DRAIN PLAN - LEVEL 02 SECTOR 02 - TYPICAL FAM. TLT**
1/4" = 1'-0"



2 **ENLARGED DRAIN PLAN - LEVEL 02 SECTOR 02 - CE STORAGE**
1/4" = 1'-0"



PLAN NORTH

TRUE NORTH

1 **PLUMBING DRAIN PLAN - LEVEL 02 SECTOR 02**
1/8" = 1'-0"

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KEY PLAN:

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DATE:	JOB NUMBER:
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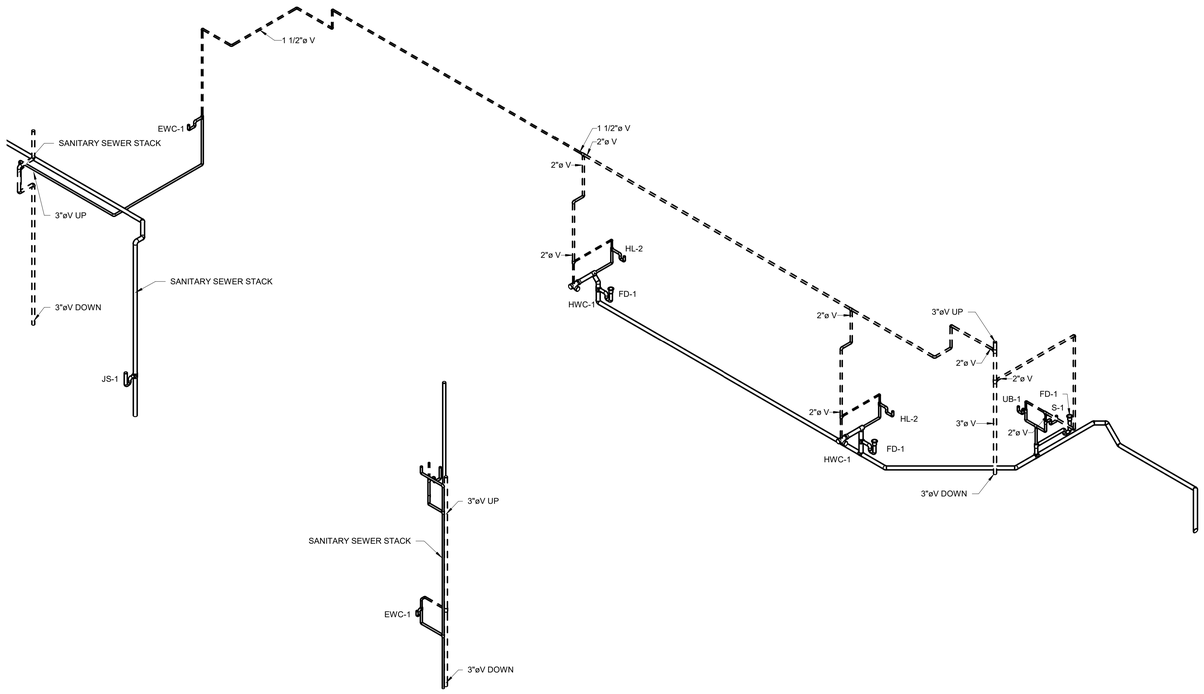
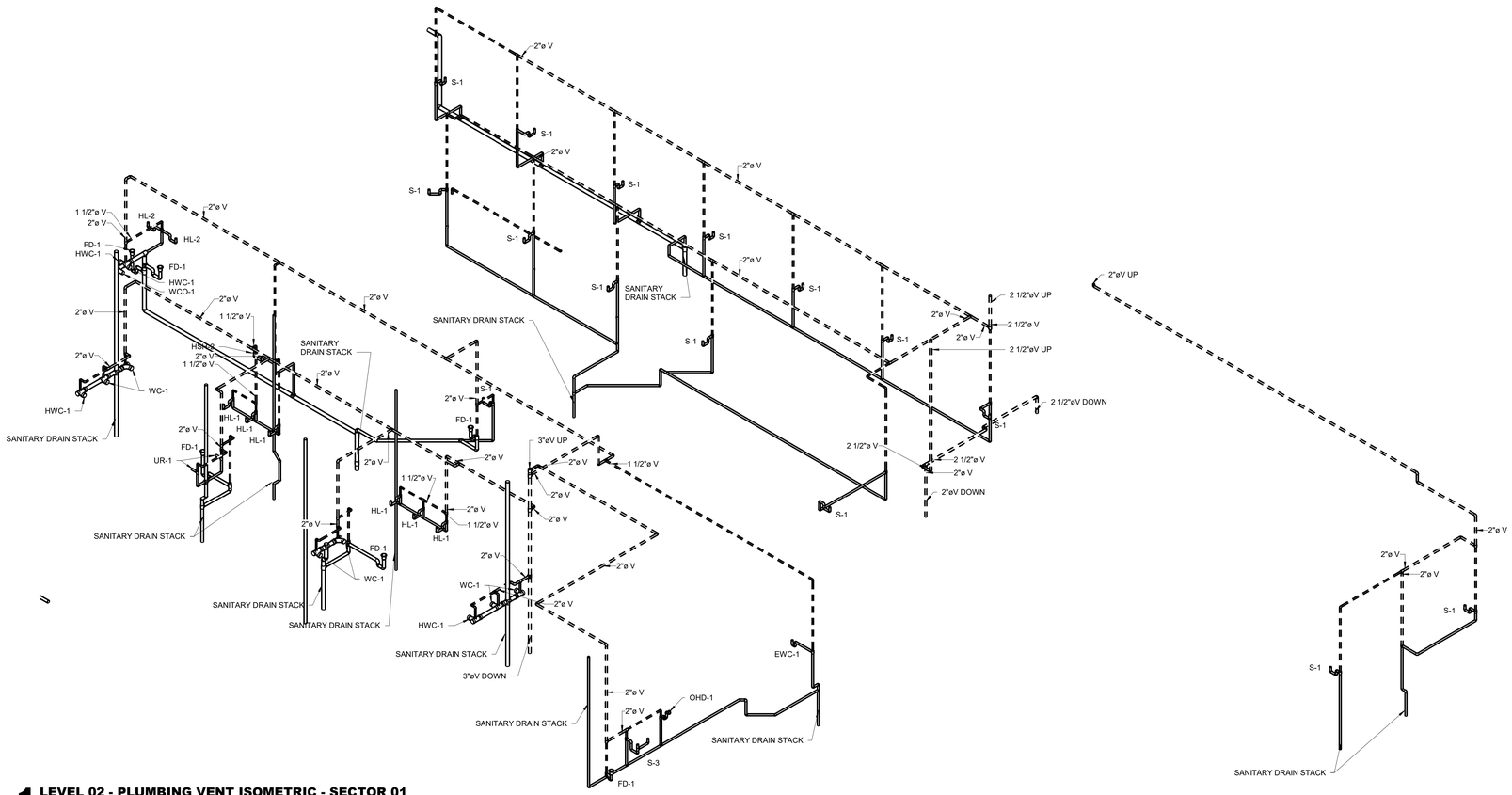
P2.22

PLUMBING DRAIN PLAN - LEVEL 02 SECTOR 02



2 LEVEL 02 - PLUMBING VENT ISOMETRIC - SECTOR 02



1 LEVEL 02 - PLUMBING VENT ISOMETRIC - SECTOR 01

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TAHLEQUAH, OKLAHOMA

KEY PLAN:

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DATE:	JOB NUMBER:
07-26-19	17-13

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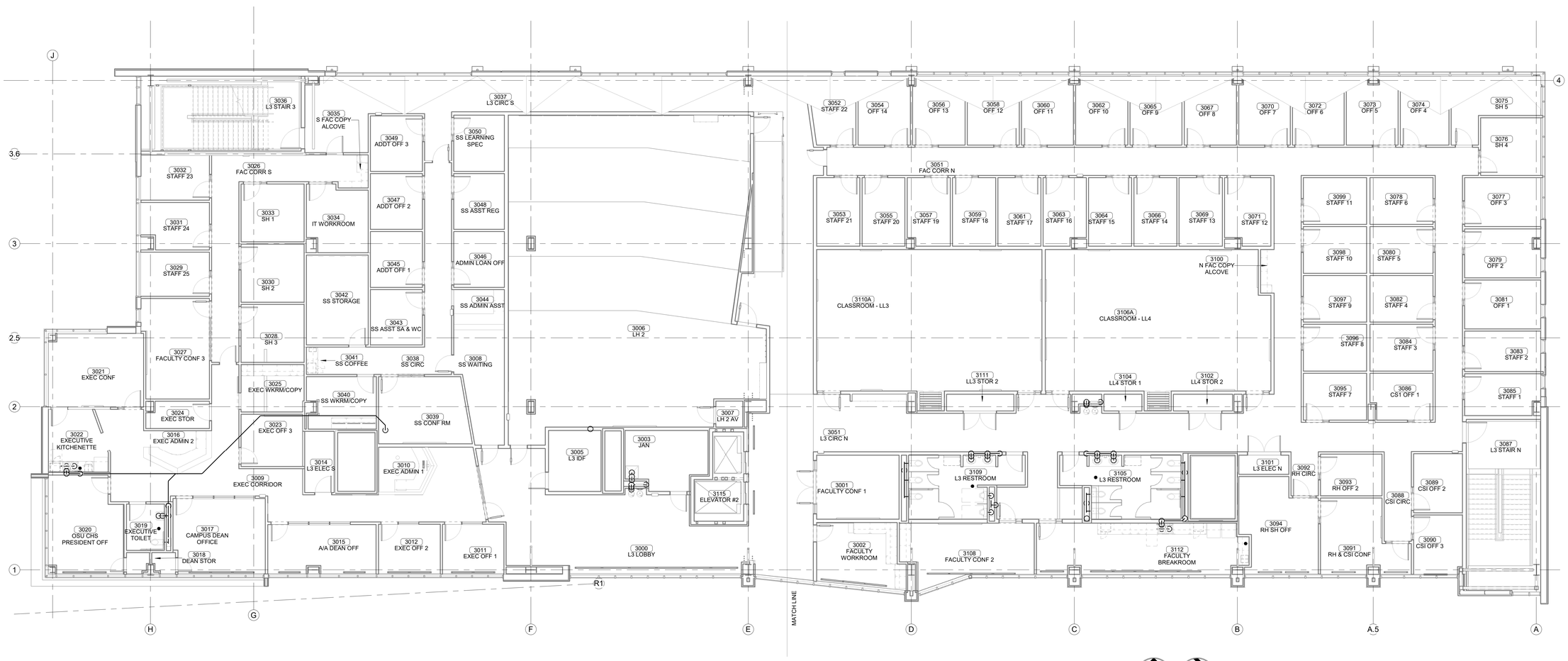
P2.23

PLUMBING DRAIN/VENT ISOMETRIC LEVEL 02



PLAN NORTH

TRUE NORTH

1 OVERALL PLUMBING DRAIN PLAN - LEVEL 03

1/8" = 1'-0"

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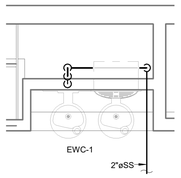
SHEET NUMBER:

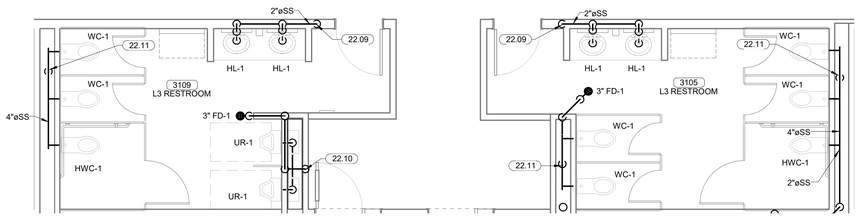
P2.30

OVERALL DRAIN PLAN - LEVEL 03

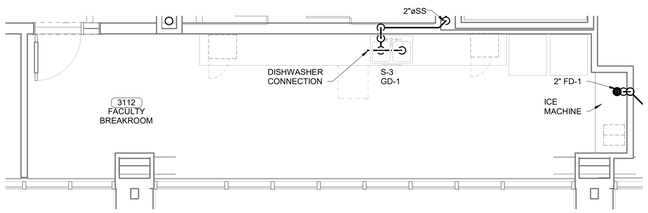
KEYNOTES	
22.09	2" SANITARY STACK DOWN.
22.10	3" SANITARY STACK DOWN.
22.11	4" SANITARY STACK DOWN.



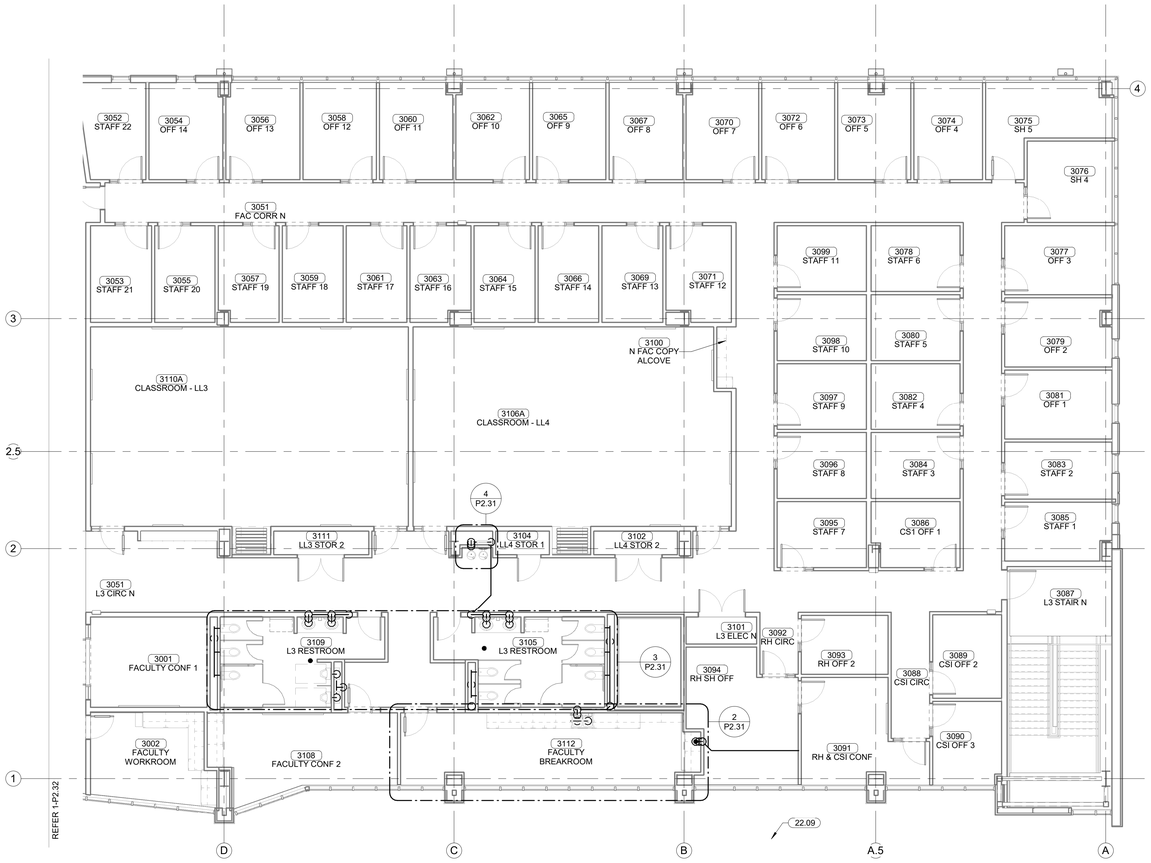
4 ENLARGED DRAIN PLAN - LEVEL 03 SECTOR 01 - DRINKING FOUNTAIN
1/2" = 1'-0"



3 ENLARGED DRAIN PLAN - LEVEL 03 SECTOR 01 - MAIN RESTROOMS
1/4" = 1'-0"



2 ENLARGED DRAIN PLAN - LEVEL 03 SECTOR 01 - FACULTY BREAKROOM
1/4" = 1'-0"



PLAN NORTH

TRUE NORTH

1 PLUMBING DRAIN PLAN - LEVEL 03 SECTOR 01
1/8" = 1'-0"

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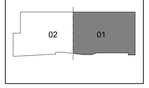

PROJECT PHASE:

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07-26-19	17-13

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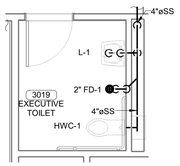
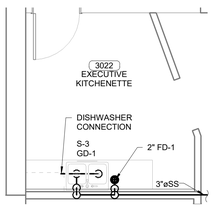
P2.31

PLUMBING DRAIN PLAN - LEVEL 03 SECTOR 01

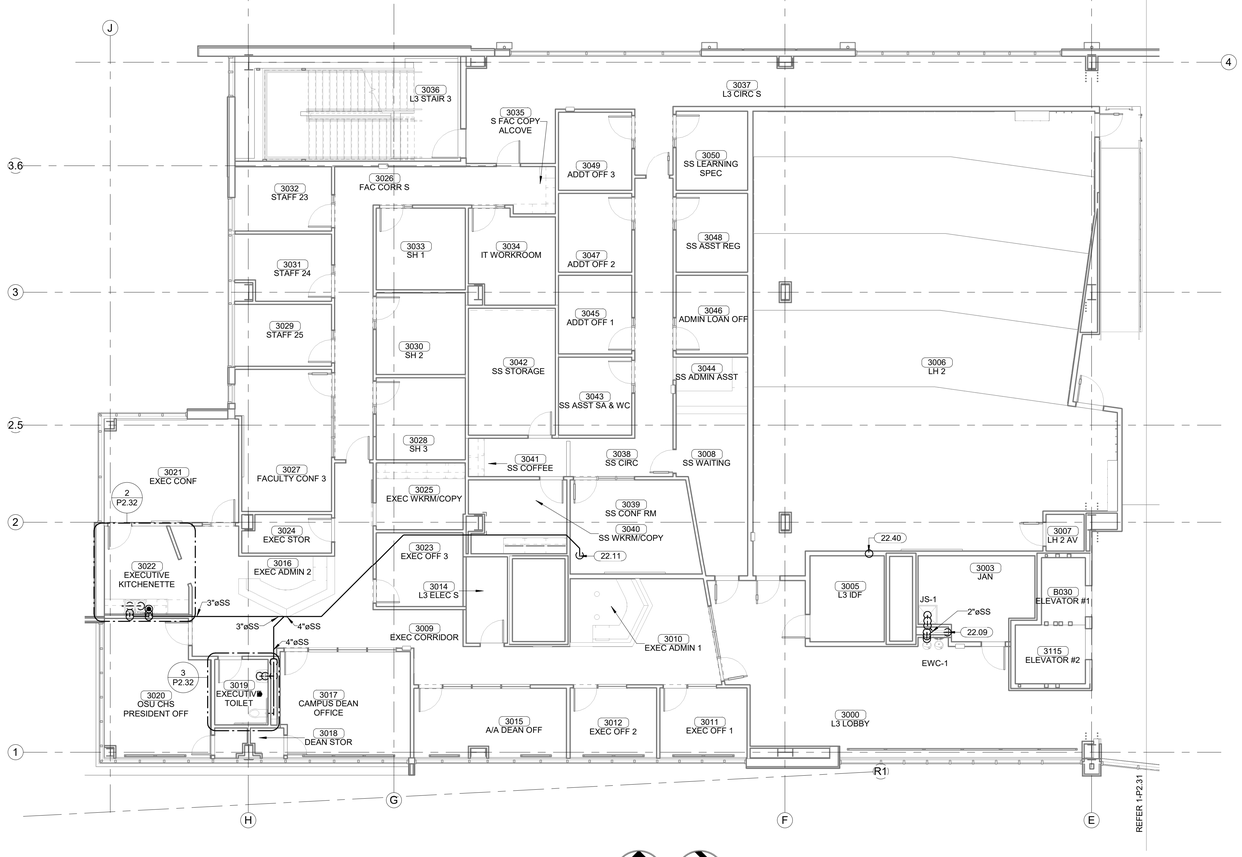
KEYNOTES	
22.09	2" SANITARY STACK DOWN.
22.11	4" SANITARY STACK DOWN.
22.40	RADON MITIGATION STACK. COORDINATE WITH RADON MITIGATION DESGN DRAWINGS.



3 ENLARGED DRAIN PLAN - LEVEL 03 SECTOR 02 - EXECUTIVE TLT
1/4" = 1'-0"



2 ENLARGED DRAIN PLAN - LEVEL 03 SECTOR 02 - EXEC. KITCHENETTE
1/4" = 1'-0"



1 PLUMBING DRAIN PLAN - LEVEL 03 SECTOR 02
1/8" = 1'-0"

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KEY PLAN:

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PROJECT PHASE:

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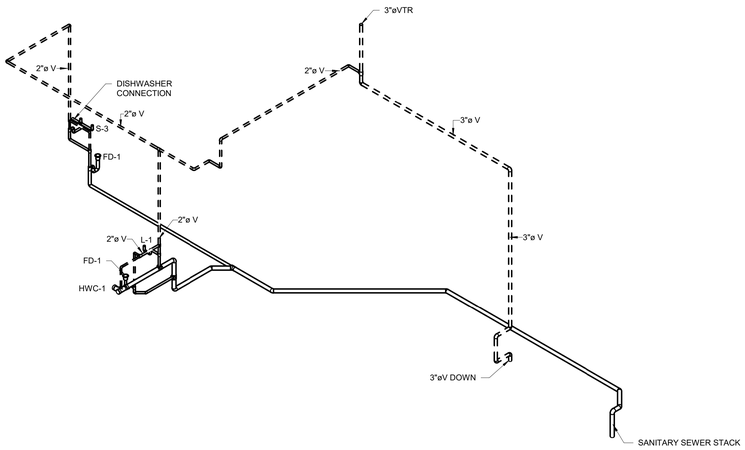
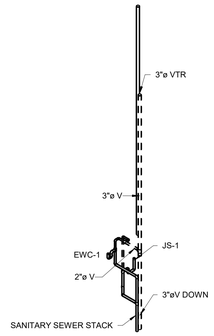
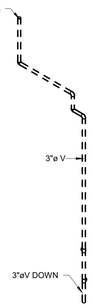
P2.32

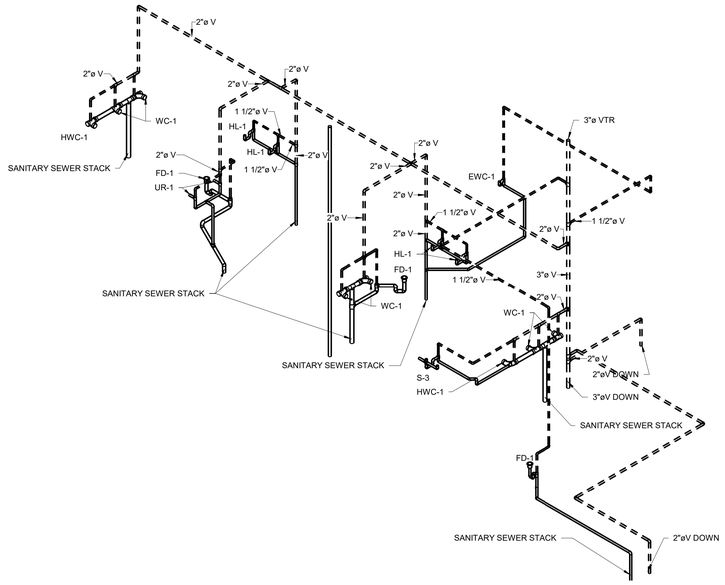
PLUMBING DRAIN PLAN - LEVEL 03 SECTOR 02

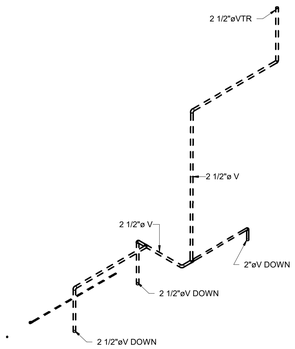






2 LEVEL 03 - PLUMBING VENT ISOMETRIC - SECTOR 02





1 LEVEL 03 - PLUMBING VENT ISOMETRIC - SECTOR 01

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KEY PLAN:

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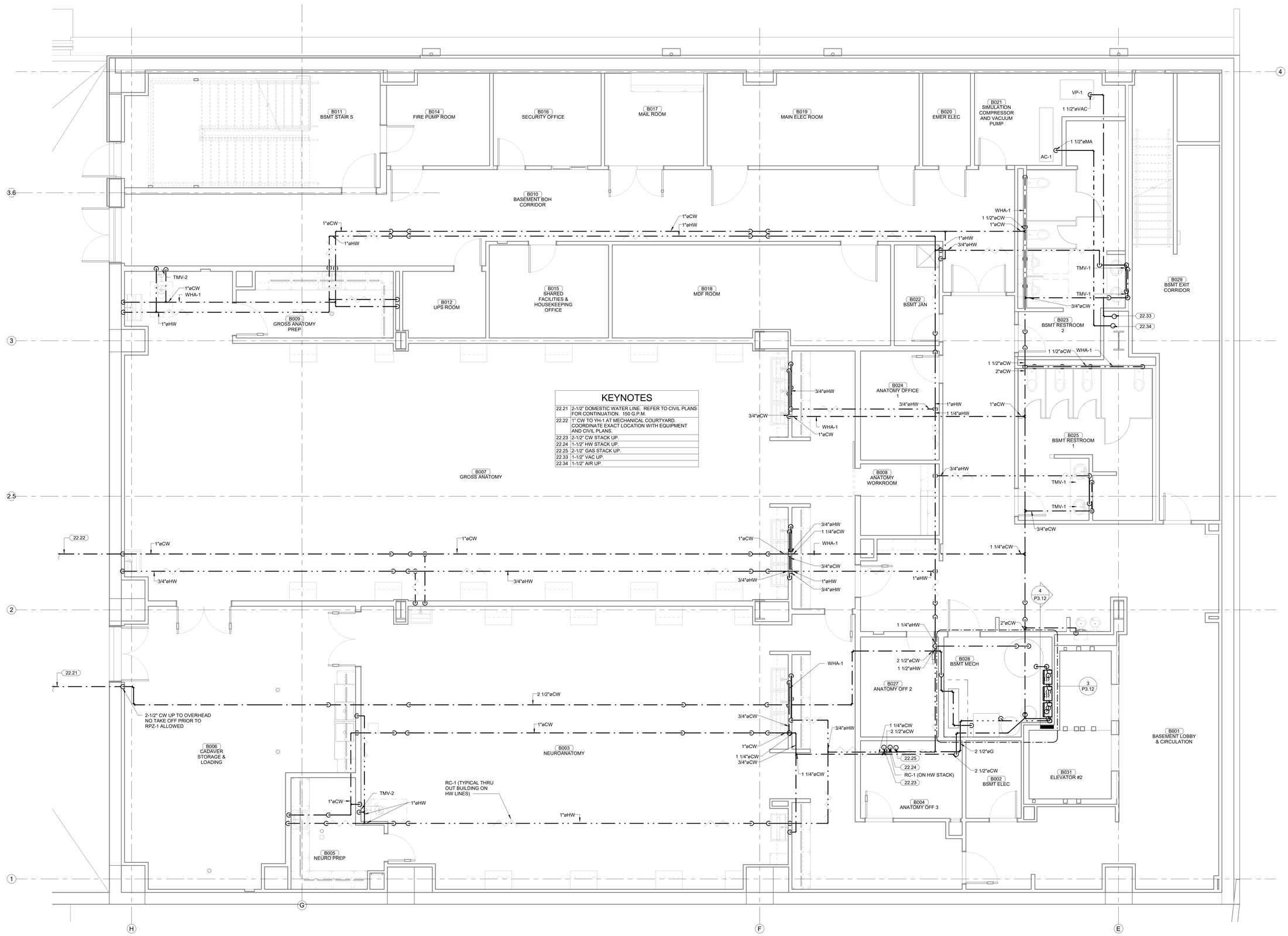
DATE: 07-26-19

JOB NUMBER: 17-13

SHEET NUMBER:

P2.33

PLUMBING DRAIN/VENT ISOMETRIC LEVEL 03



KEYNOTES

22.21	2-1/2" DOMESTIC WATER LINE. REFER TO CIVIL PLANS FOR CONTINUATION. 150 G.P.M.
22.22	1" CW TO YH-1 AT MECHANICAL COURTYARD. COORDINATE EXACT LOCATION WITH EQUIPMENT AND CIVIL PLANS.
22.23	2-1/2" CW STACK UP.
22.24	1-1/2" HW STACK UP.
22.25	2-1/2" GAS STACK UP.
22.33	1-1/2" VAC UP.
22.34	1-1/2" AIR UP.

1 PLUMBING SUPPLY PLAN - BASEMENT LEVEL

1/4" = 1'-0"

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DATE: 07-26-19

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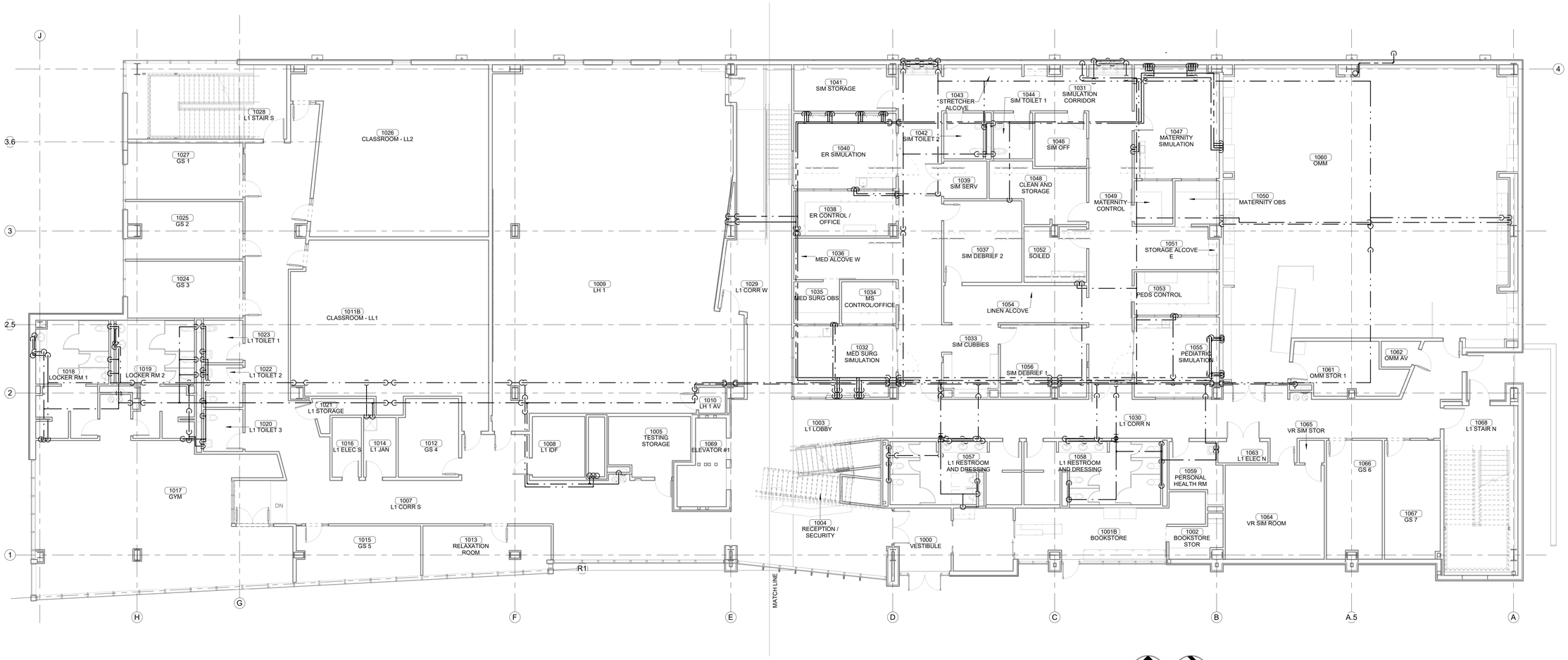
PLUMBING SUPPLY PLAN - BASEMENT LEVEL



PLAN NORTH

TRUE NORTH

1 OVERALL PLUMBING SUPPLY PLAN - LEVEL 01

1/8" = 1'-0"

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DATE:	JOB NUMBER:
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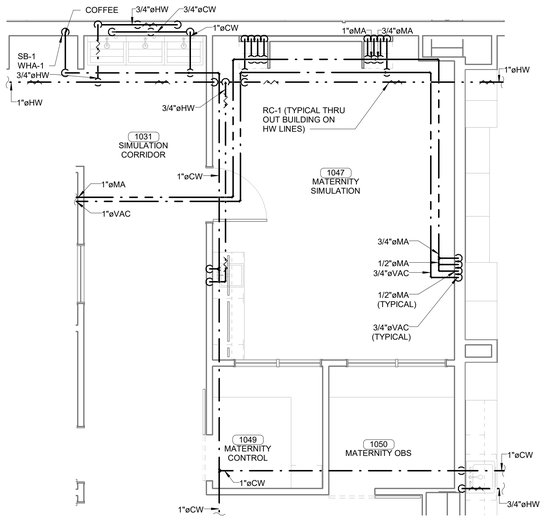
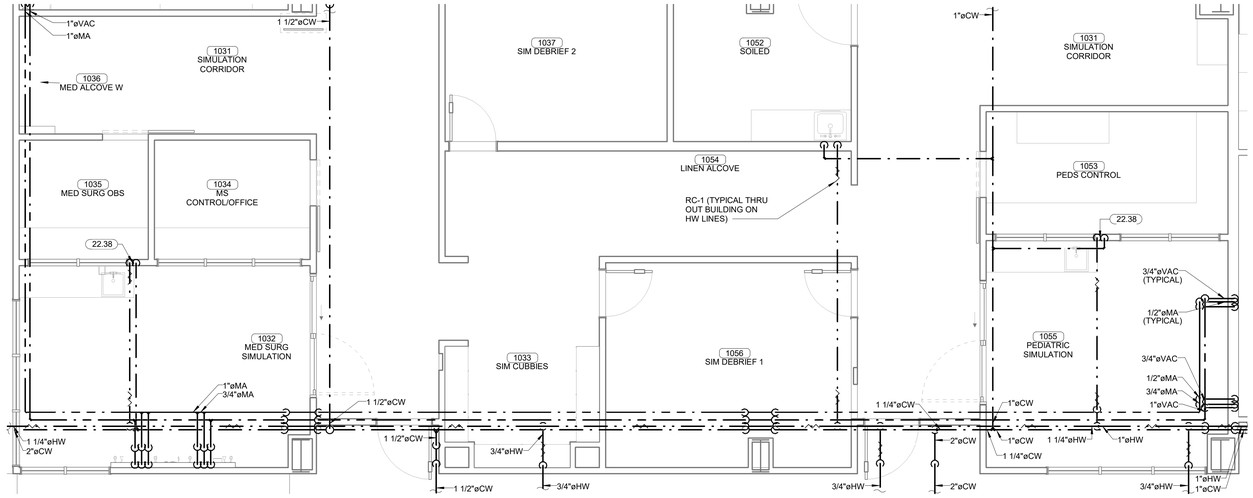
OVERALL SUPPLY PLAN - LEVEL 01

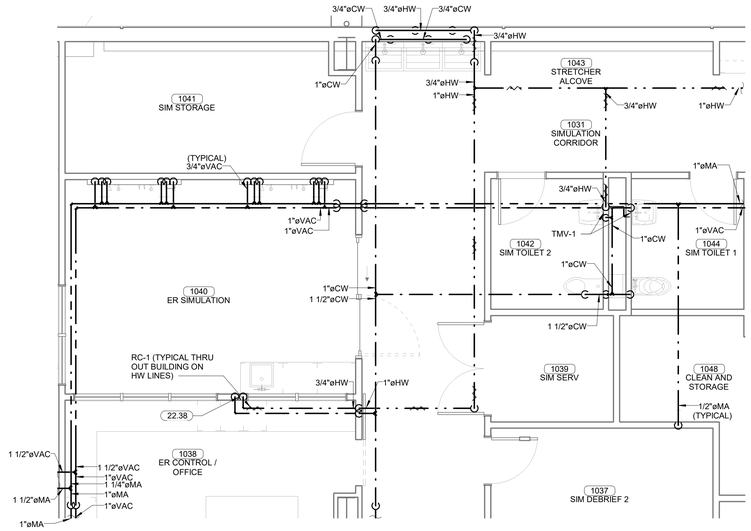


ENLARGED SUPPLY PLAN - LEVEL 01 SECTOR 01 - MATERNITY SIM
4 1/4" = 1'-0"

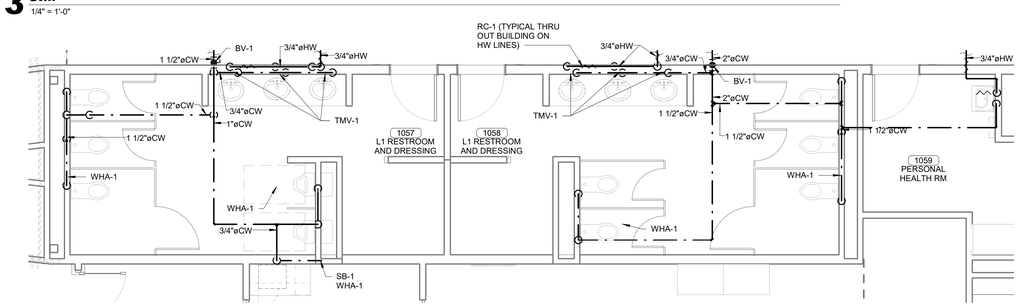
KEYNOTES	
22.38	3/4" CW & HW DOWN IN WALL TO BELOW WINDOW. ROUTE LOW IN WALL TO FIXTURE.



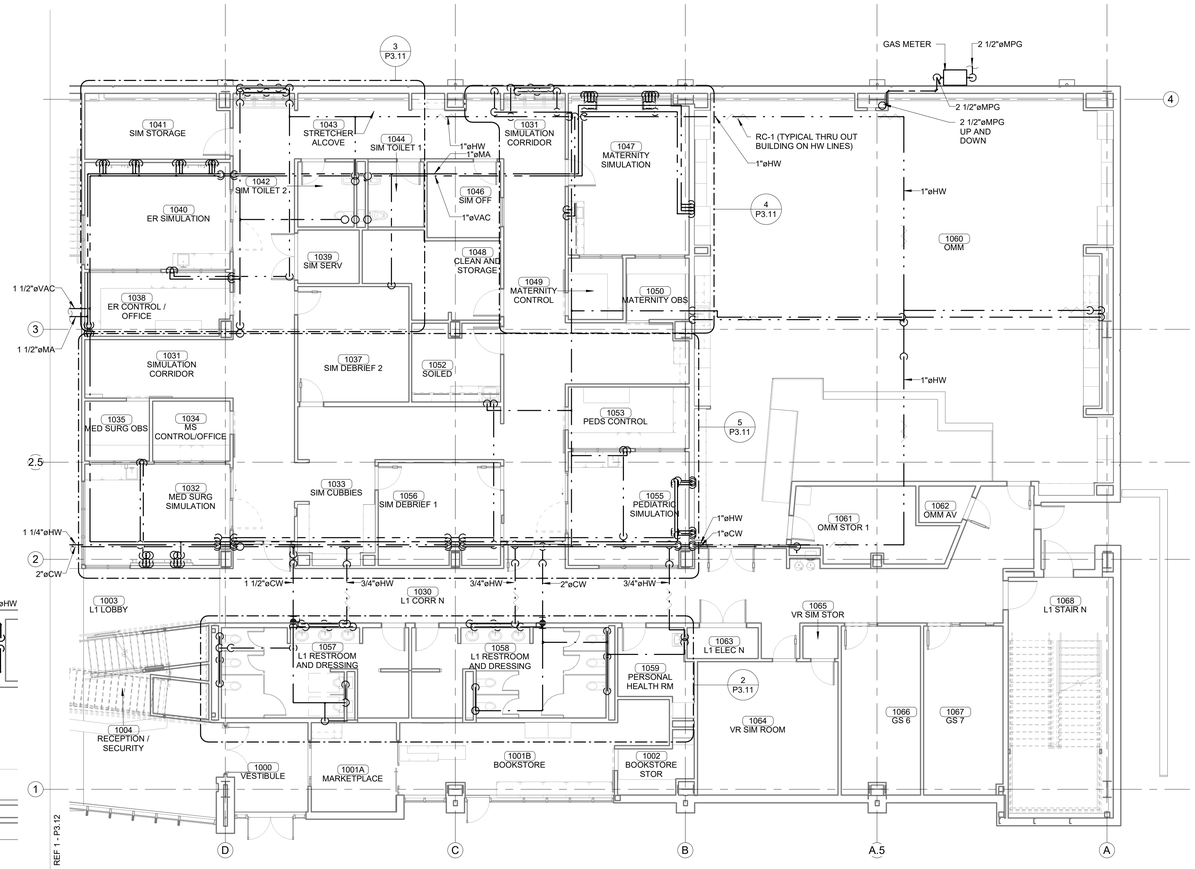
ENLARGED SUPPLY PLAN - LEVEL 01 SECTOR 01 - SIMULATION
5 1/4" = 1'-0"



ENLARGED SUPPLY PLAN - LEVEL 01 SECTOR 01 - ER SIM
3 1/4" = 1'-0"



ENLARGED SUPPLY PLAN - LEVEL 01 SECTOR 01 - MAIN RESTROOMS
2 1/4" = 1'-0"



PLAN NORTH
TRUE NORTH

1 PLUMBING SUPPLY PLAN - LEVEL 01 SECTOR 01
1/8" = 1'-0"

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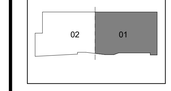

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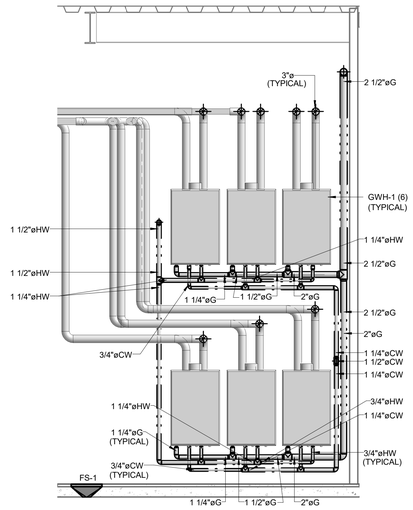
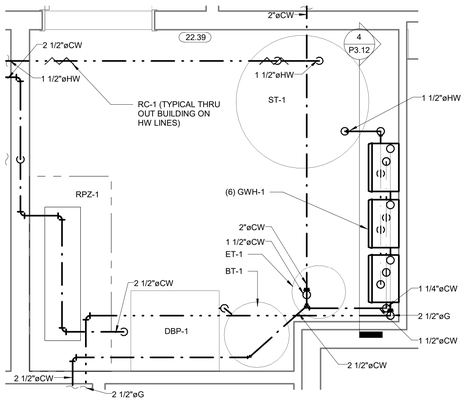
PLUMBING SUPPLY PLAN - LEVEL 01 SECTOR 01

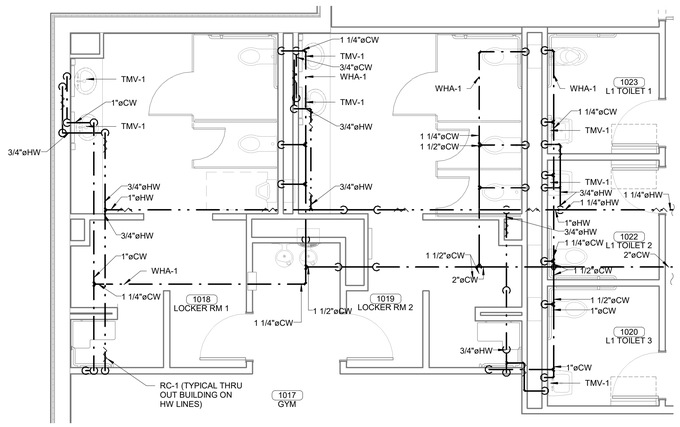
KEYNOTES	
22.26	2" CW STACK UP AND 2-1/2" CW DOWN.
22.28	2-1/2" GAS STACK UP AND DOWN.
22.30	1-1/4" HW STACK UP AND 1-1/2" HW STACK DOWN.
22.35	1-1/2" VAC DOWN.
22.36	1-1/2" AIR DOWN.
22.39	LOCATE CONTROLLERS FOR RC-1 AT THIS LOCATION AS MUCH AS POSSIBLE. COORDINATE CONTROLLER LOCATIONS WITH OWNER AND THE RC-1 MANUFACTURER'S REP.



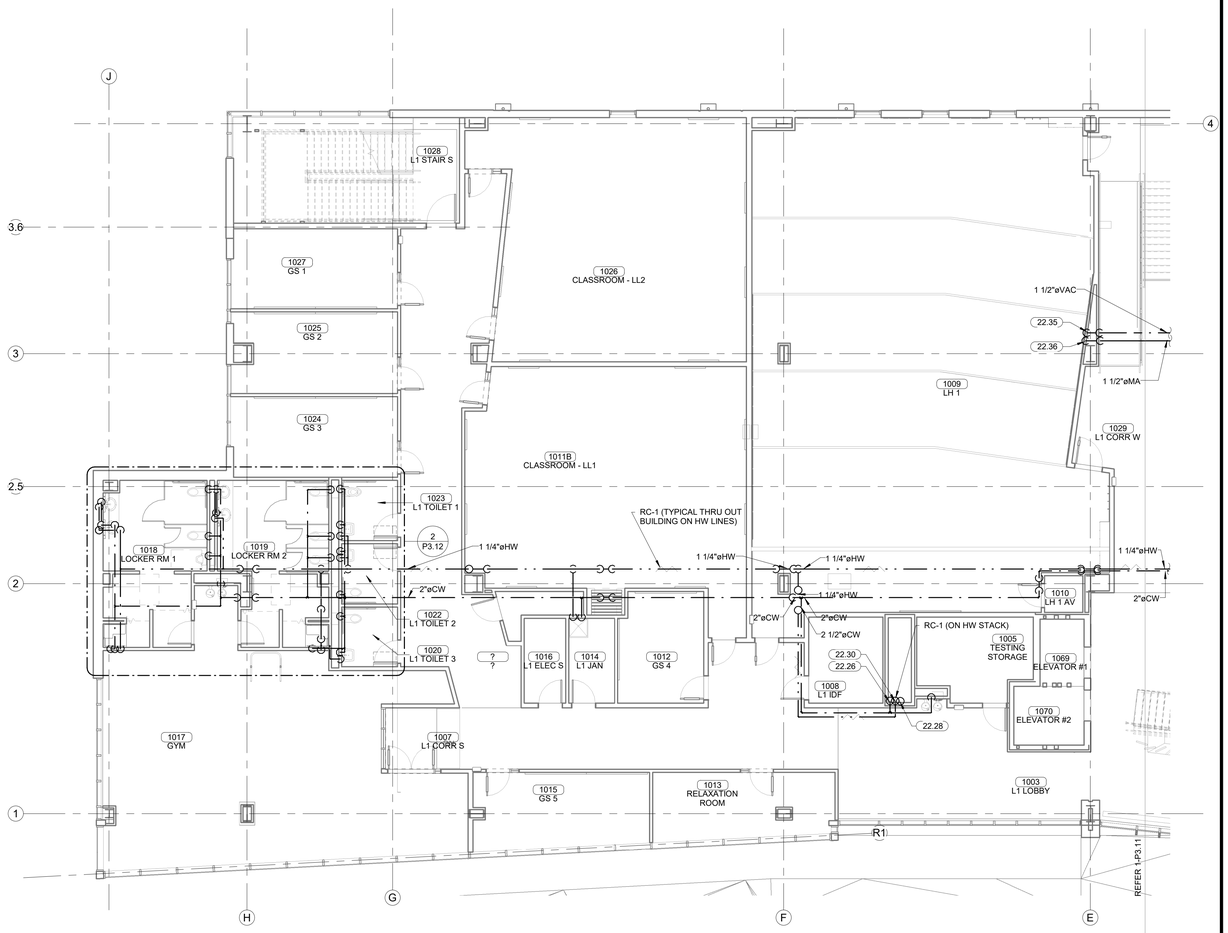
4 WATER HEATER SECTION
1/2" = 1'-0"



3 PLUMBING SUPPLY PLAN - BASEMENT LEVEL - MECH. ROOM
1/2" = 1'-0"



2 ENLARGED SUPPLY PLAN - LEVEL 01 SECTOR 02 - LOCKER ROOMS
1/4" = 1'-0"



PLAN NORTH
TRUE NORTH

1 PLUMBING SUPPLY PLAN - LEVEL 01 SECTOR 02
1/8" = 1'-0"

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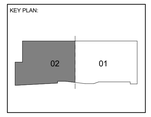

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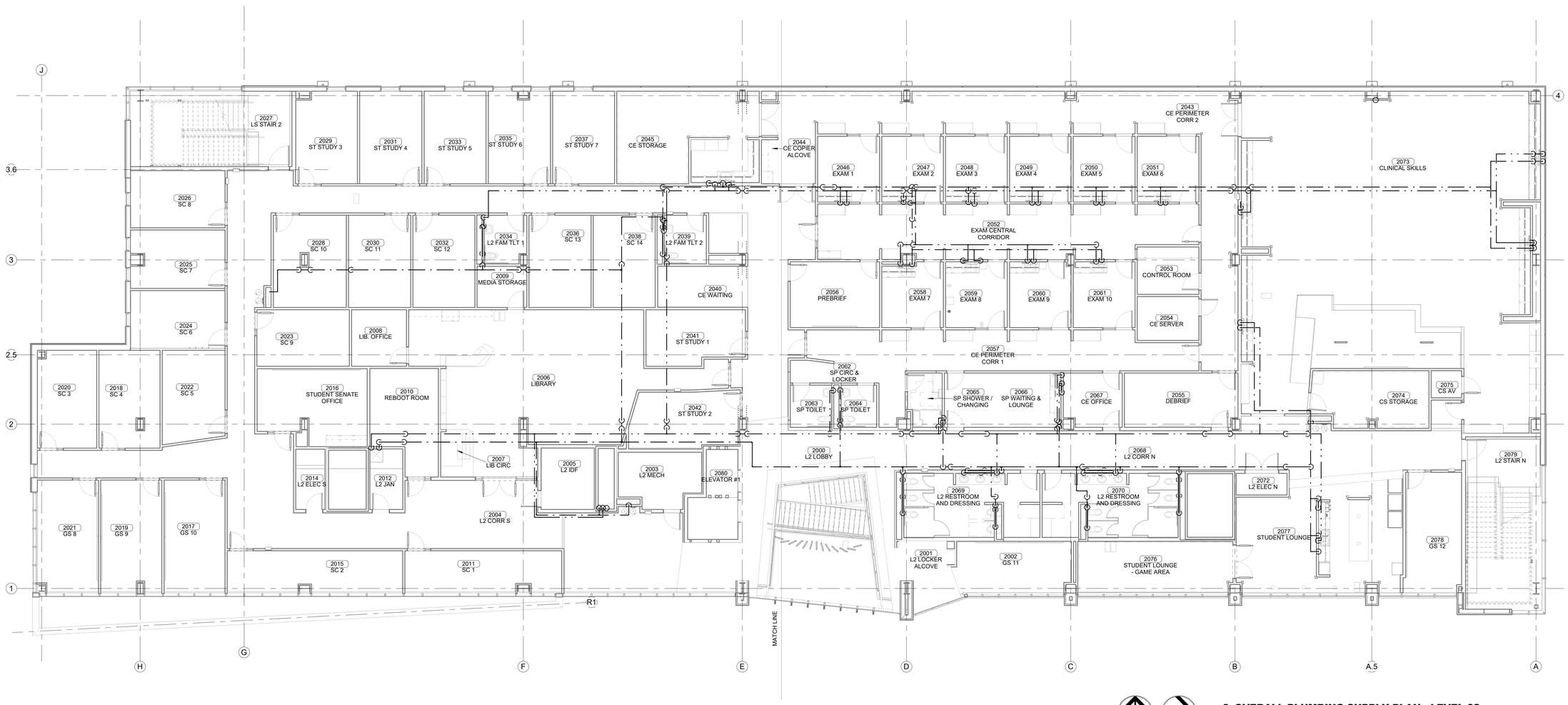
PLUMBING SUPPLY PLAN - LEVEL 01 SECTOR 02



PLAN NORTH

TRUE NORTH

1 OVERALL PLUMBING SUPPLY PLAN - LEVEL 02

1/8" = 1'-0"

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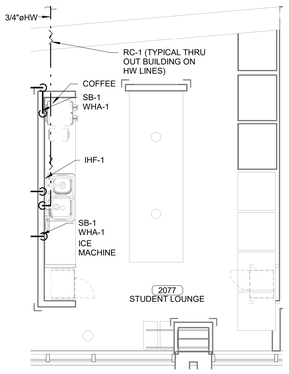
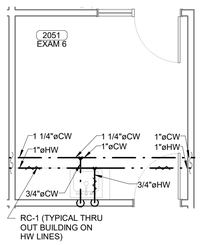
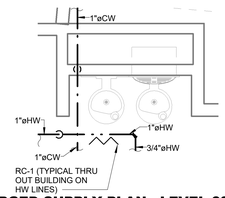
OVERALL SUPPLY PLAN - LEVEL 02



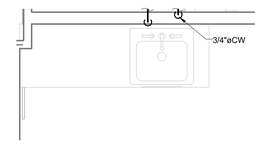
4 ENLARGED SUPPLY PLAN - LEVEL 02 SECTOR 01 - STUDENT LOUNGE
1/4" = 1'-0"



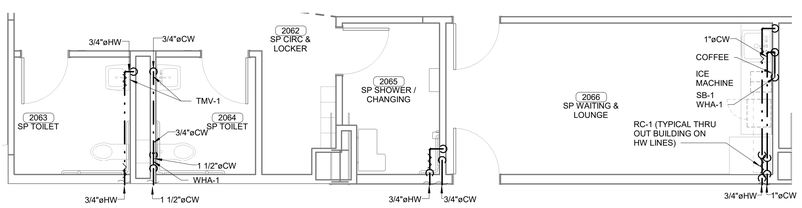
5 ENLARGED SUPPLY PLAN - LEVEL 02 SECTOR 01 - TYPICAL EXAM ROOM
1/4" = 1'-0"



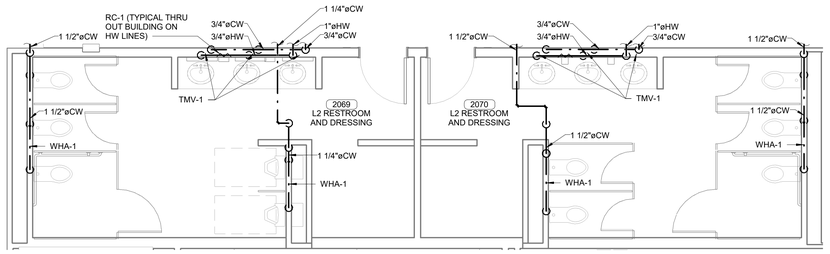
6 ENLARGED SUPPLY PLAN - LEVEL 02 SECTOR 01 - DRINKING FOUNTAIN
1/2" = 1'-0"



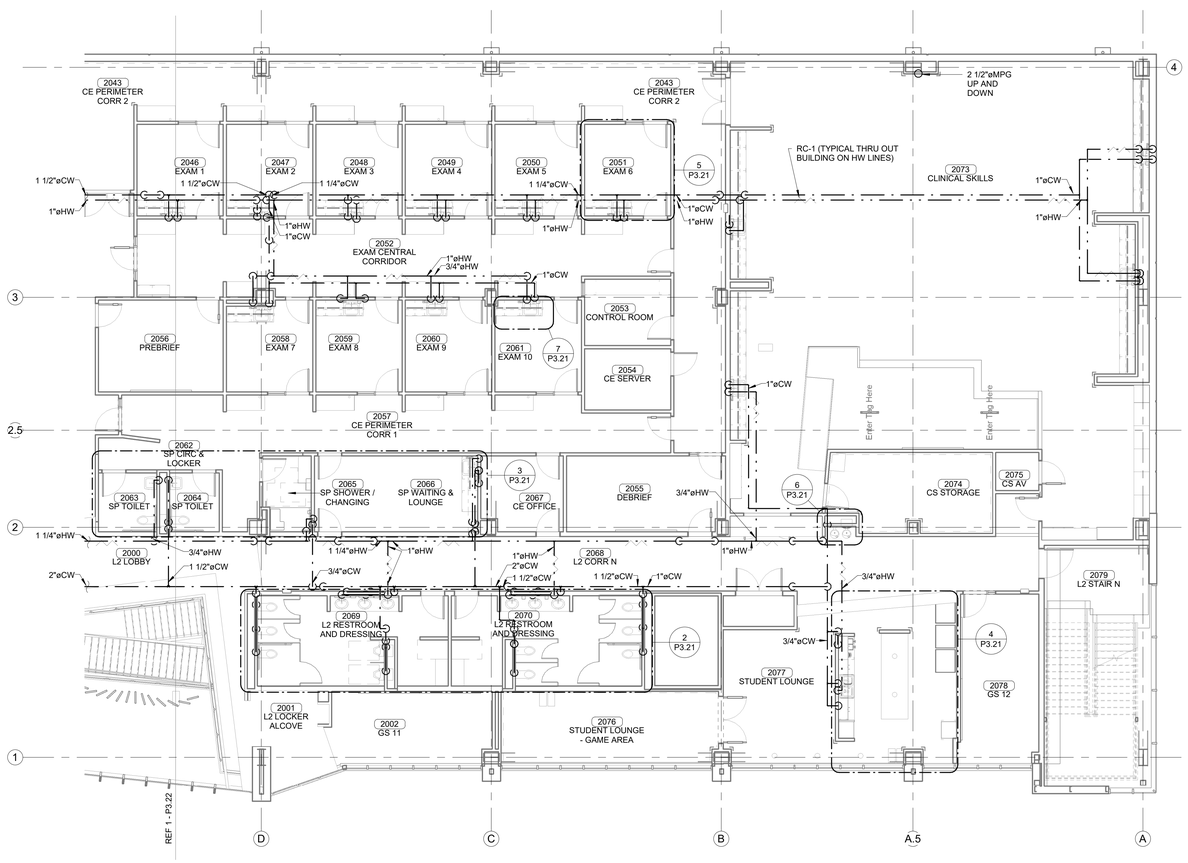
7 ENLARGED SUPPLY PLAN - LEVEL 02 SECTOR 01 - TYPICAL SINK
1/2" = 1'-0"

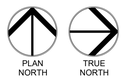


3 ENLARGED SUPPLY PLAN - LEVEL 02 SECTOR 01 - SP CIRC & LOCKER
1/4" = 1'-0"



2 ENLARGED SUPPLY PLAN - LEVEL 02 SECTOR 01 - MAIN RESTROOMS
1/4" = 1'-0"





1 PLUMBING SUPPLY PLAN - LEVEL 02 SECTOR 01
1/8" = 1'-0"

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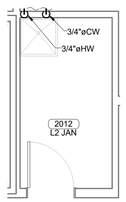
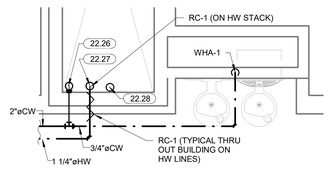
PLUMBING SUPPLY PLAN - LEVEL 02 SECTOR 01

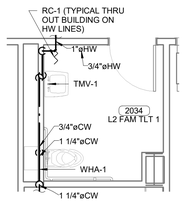
KEYNOTES	
22.26	2" CW STACK UP AND 2-1/2" CW DOWN.
22.27	1-1/4" HW STACK UP AND DOWN.
22.28	2-1/2" GAS STACK UP AND DOWN.



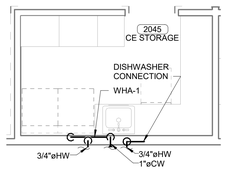
4 ENLARGED SUPPLY PLAN - LEVEL 02 SECTOR 02 - TYPICAL JAN.
1/4" = 1'-0"



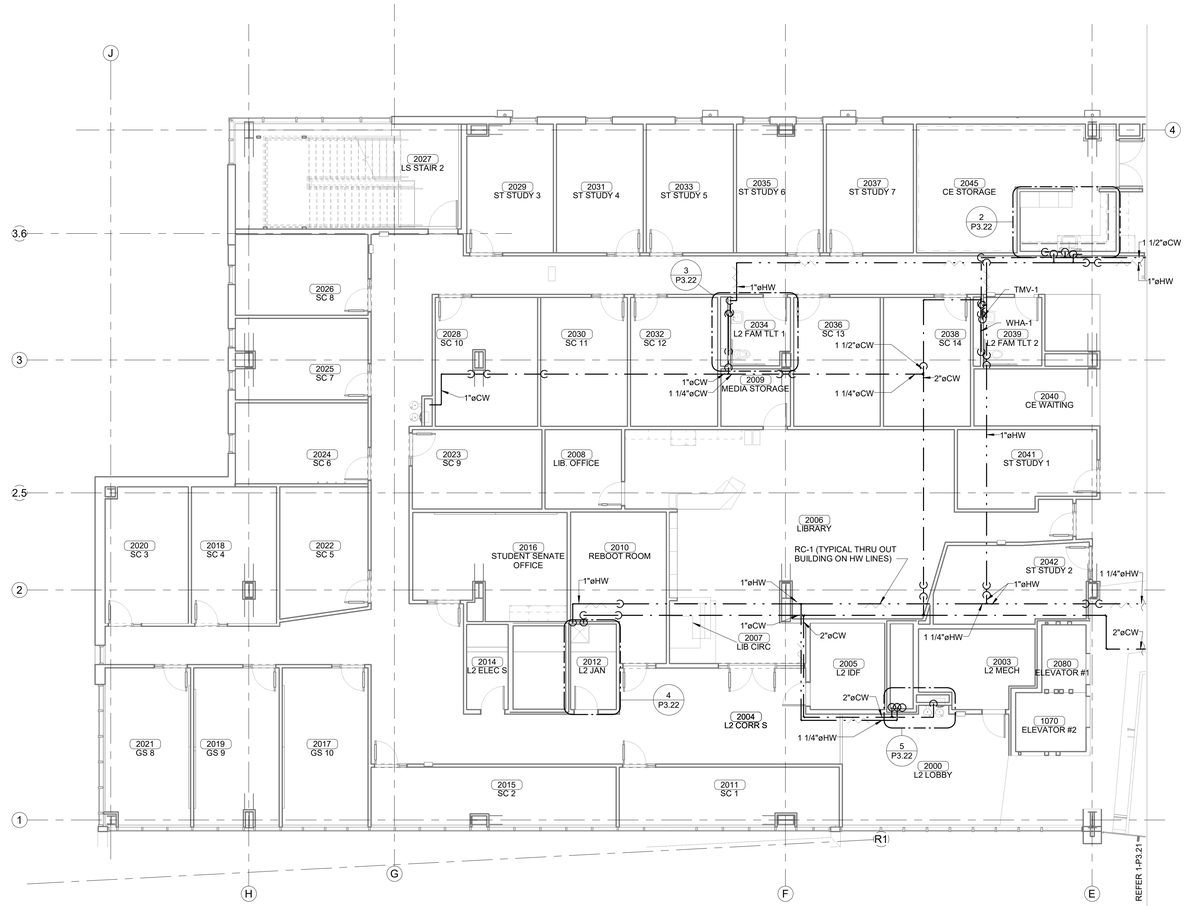
5 ENLARGED SUPPLY PLAN - LEVEL 02 SECTOR 02 - DRINKING FOUNTAIN
1/2" = 1'-0"



3 ENLARGED SUPPLY PLAN - LEVEL 02 SECTOR 02 - TYPICAL FAM. TLT
1/4" = 1'-0"



2 ENLARGED SUPPLY PLAN - LEVEL 02 SECTOR 02 - CE STORAGE
1/4" = 1'-0"



1 PLUMBING SUPPLY PLAN - LEVEL 02 SECTOR 02
1/8" = 1'-0"

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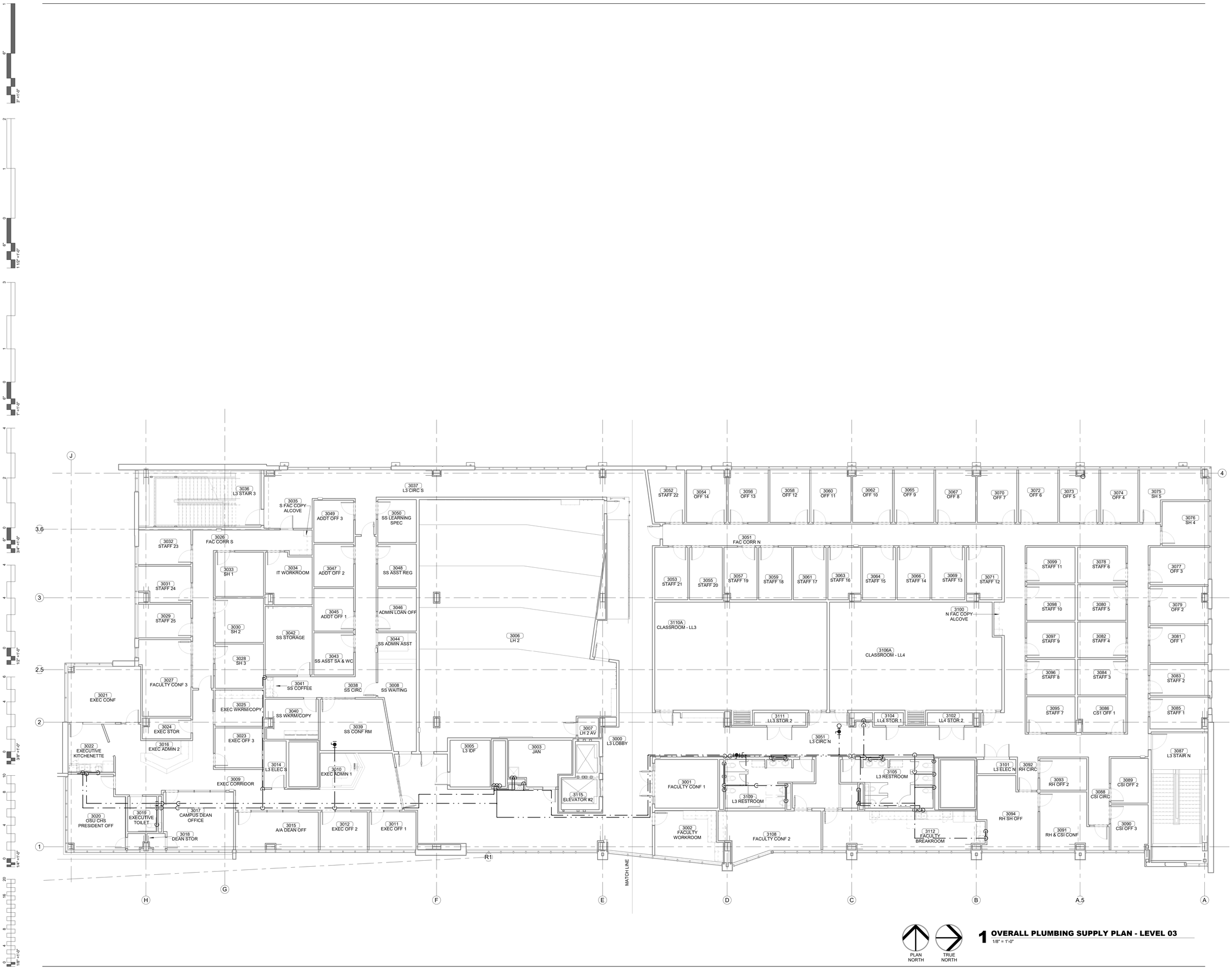
PLUMBING SUPPLY PLAN - LEVEL 02 SECTOR 02



1 OVERALL PLUMBING SUPPLY PLAN - LEVEL 03

1/8" = 1'-0"

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PROFESSIONAL SEAL:

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CONSULTANT LOGO:

HP ENGINEERING

PROJECT NO. 18163R

95 % COMPLETE

HP ENGINEERING INC.
5214 W. VILLAGE PARKWAY
SUITE 120
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CLIENT:

COLLEGE OF Osteopathic Medicine AT THE CHEROKEE NATION

TAHLEQUAH, OKLAHOMA

KEY PLAN:

02 01

PROJECT PHASE:

95% CONSTRUCTION DOCUMENTS

REVISIONS

#	DATE	DESCRIPTION

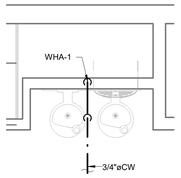
DATE: 07-26-19

JOB NUMBER: 17-13

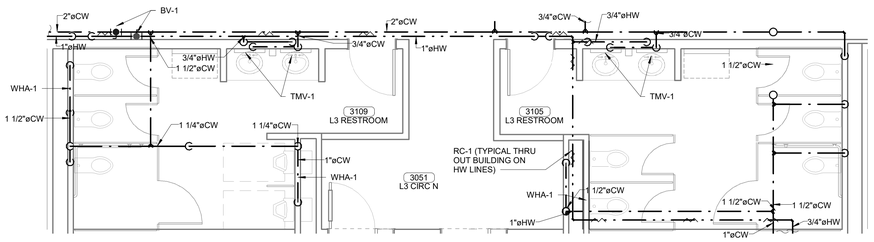
SHEET NUMBER:

P3.30

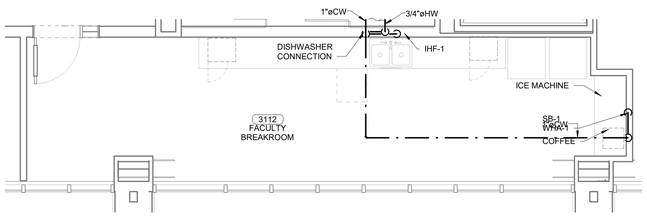
OVERALL SUPPLY PLAN - LEVEL 03



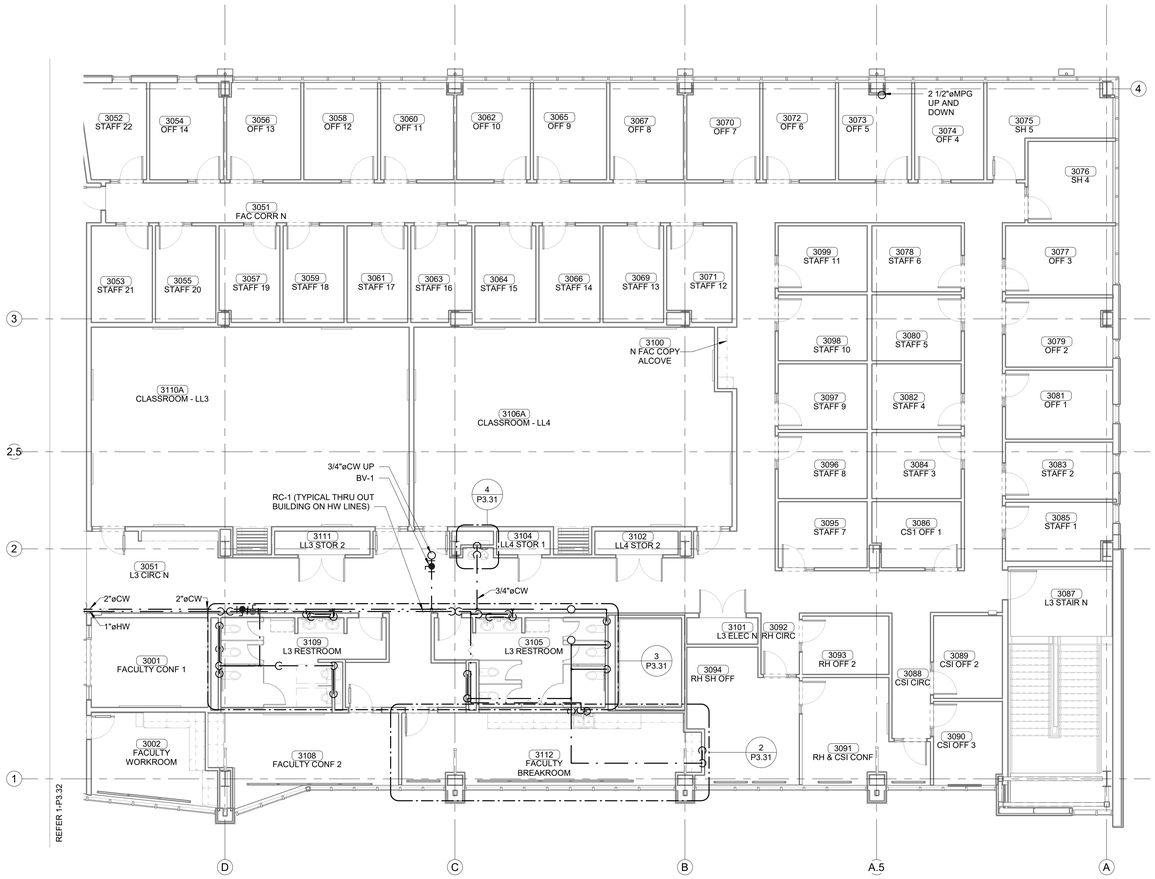
4 ENLARGED SUPPLY PLAN - LEVEL 03 SECTOR 01 - DRINKING FOUNTAIN
1/2" = 1'-0"



3 ENLARGED SUPPLY PLAN - LEVEL 03 SECTOR 01 - MAIN RESTROOMS
1/4" = 1'-0"



2 ENLARGED SUPPLY PLAN - LEVEL 03 SECTOR 01 - FACULTY BREAKROOM
1/4" = 1'-0"



PLAN NORTH

TRUE NORTH

1 PLUMBING SUPPLY PLAN - LEVEL 03 SECTOR 01
1/8" = 1'-0"

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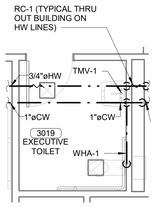
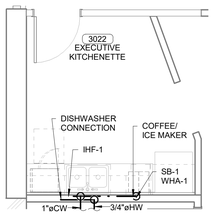
PLUMBING SUPPLY PLAN - LEVEL 03 SECTOR 01

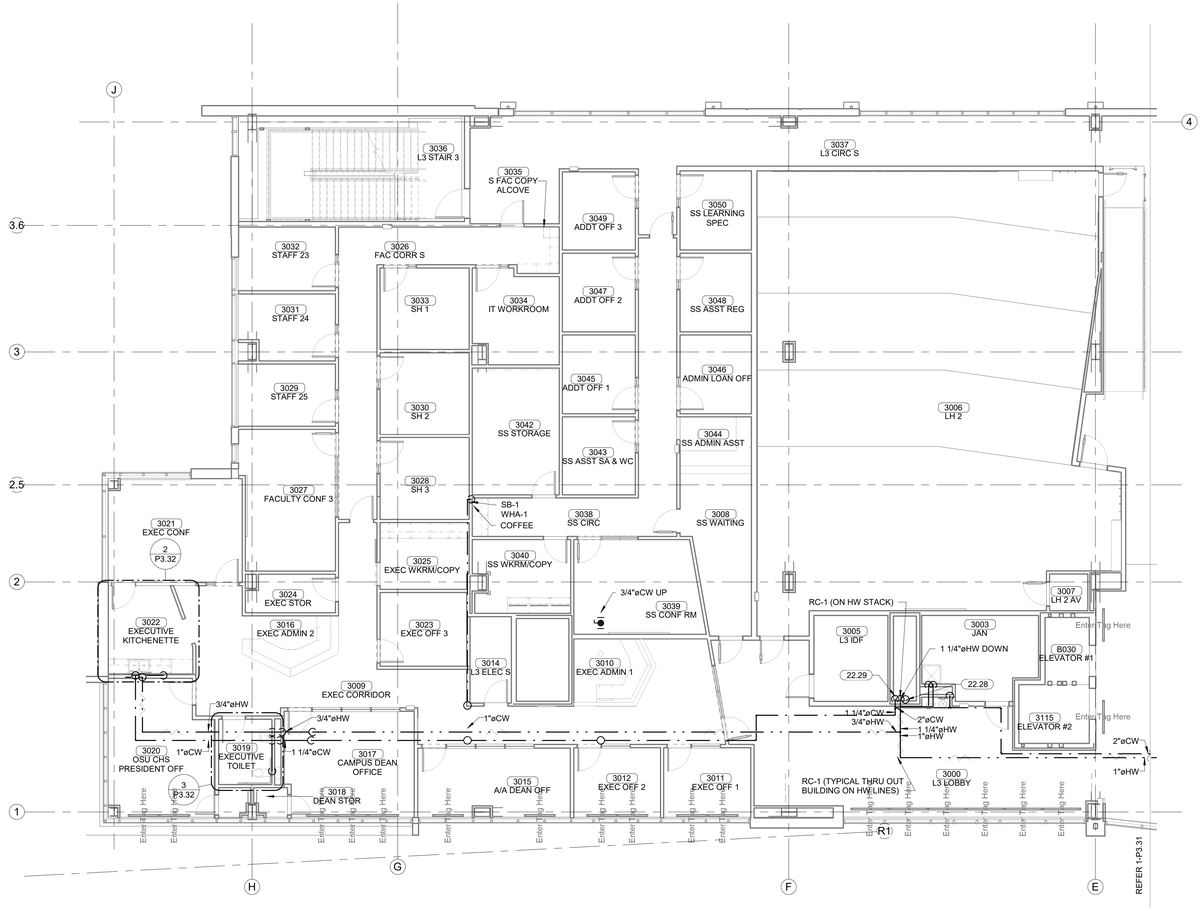
KEYNOTES	
22.28	2-1/2" GAS STACK UP AND DOWN.
22.29	2" CW STACK DOWN.



3 ENLARGED SUPPLY PLAN - LEVEL 03 SECTOR 02 - EXECUTIVE TLT
1/4" = 1'-0"



2 ENLARGED SUPPLY PLAN - LEVEL 03 SECTOR 02 - EXEC. KITCHENETTE
1/4" = 1'-0"



1 PLUMBING SUPPLY PLAN - LEVEL 03 SECTOR 02
1/8" = 1'-0"

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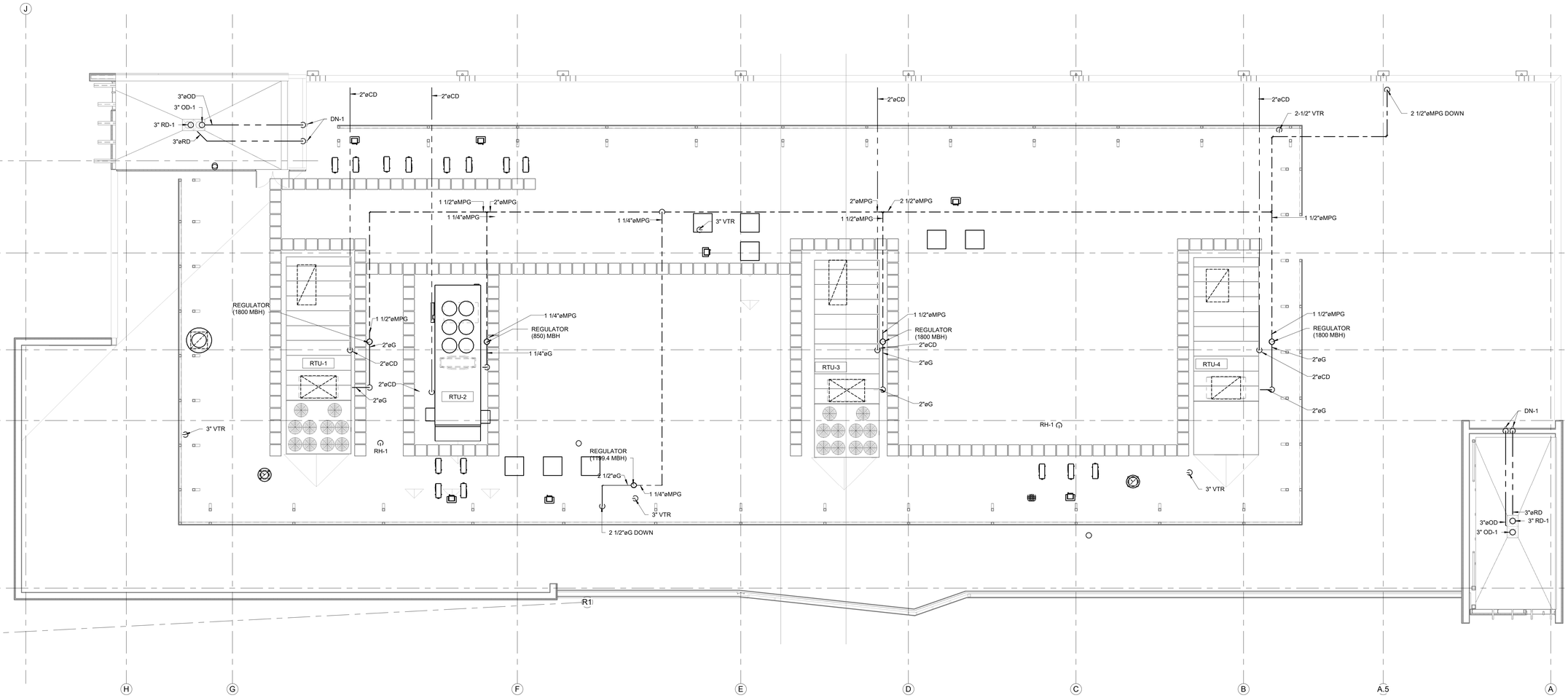
PLUMBING SUPPLY PLAN - LEVEL 03 SECTOR 02



1 OVERALL PLUMBING ROOF PLAN

1/8" = 1'-0"

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P3.40

PLUMBING ROOF PLAN

3" =1'-0" · 1 1/2" =1'-0" · 1" =1'-0" · 3/4" =1'-0" · 1/2" =1'-0" · 3/8" =1'-0" · 1/4" =1'-0" · 1/8" =1'-0"

DUCT SILENCER SCHEDULE

TAG	MANUF.	MODEL	FLOW DIRECTION	AIRFLOW (CFM)	LENGTH (IN)	WIDTH (IN)	HEIGHT (IN)	FACE VELOCITY (FPM)	MAX. PRESSURE DROP (IN. W.G.)	MINIMUM DYNAMIC INSERTION LOSS (dB) 63	125	250	500	1K	2K	4K	8K	NOTES
SL-RTU-1S	VIBRO-ACOUSTICS	EXRED-UHV-F4-L23750	SUPPLY	40000	84	40(48)	76	+1942	0.15	6	11	16	27	33	35	28	22	A,B,C
SL-RTU-1R	VIBRO-ACOUSTICS	RED-UHV-FE-L23750	RETURN	40000	84	40	86	-1716	0.14	7	11	12	22	24	27	21	17	A,B,C
SL-RTU-2S	VIBRO-ACOUSTICS	RED-UHV-FC-L23750	SUPPLY	15,000	108	36	30	+2000	0.21	10	17	16	28	37	32	22	22	A,B,D
SL-RTU-3R	VIBRO-ACOUSTICS	EXRED-UHV-F3-L23750	RETURN	38,600	120	40 (52)	84	-1721	0.12	8	19	18	32	46	38	27	19	A,B,E
SL-RTU-4S	VIBRO-ACOUSTICS	EXRED-HV-FJ-L23750	SUPPLY	31300	108	36 (48)	62	-2019	0.18	11	17	17	24	30	28	20	20	A,B,F
SL-RTU-4R	VIBRO-ACOUSTICS	EXRED-HV-FJ-L23750	RETURN	31300	108	36 (48)	70	-1789	0.14	11	17	17	24	30	28	20	20	A,B,G
SL-RTU-3S	VIBRO-ACOUSTICS	EXRED-HV-FX-L23750	SUPPLY	38,600	144	42 (48)	76	+1741	0.08	11	11	19	29	42	36	23	23	A,B,H

GENERAL NOTES APPLICABLE TO ALL UNITS:
1) ALL DUCT SIZES SHOWN ARE THE OUTSIDE METAL DIMENSIONS.
2) LENGTH SHOWN FOR ELBOW SILENCERS IS CENTERLINE LENGTH.
3) VELOCITY SHOWN IS +(FORWARD FLOW) OR -(REVERSE FLOW) AS DEFINED BY ASTM E477-13.
4) PRESSURE DROP, DYNAMIC INSERTION LOSS, AND SELF-GENERATED NOISE PER ASTM E477-13.

NOTES
A. HTL CASING
B. ELBOW SILENCER
C. EXTENDED WIDTH SILENCER. DUCT DIMENSION 40" X 76", OUTSIDE CASING DIMENSION 48" X 76". SILENCER TO HAVEE A 45-DEGREE OFFSETTING HORIZONTAL LEG. CASING TO HTL EQUIVALENT TO 14 GAUGE DUCT WALL.
D. CASING TO HTL EQUIVALENT TO 14 GAUGE DUCT WALL TO CONTROL BREAKOUT.
E. EXTENDED WIDTH SILENCER. DUCT DIMENSION 40" X 84", OUTSIDE CASING DIMENSION 52" X 84". CASING TO BE HTL EQUIVALENT TO 12 GAUGE DUCT TO CONTROL BREAKOUT.
F. EXTENDED WIDTH SILENCER. DUCT DIMENSION 36" X 62", OUTSIDE CASING DIMENSION 48" X 62". CASING TO BE HTL EQUIVALENT TO 10 GAUGE DUCT TO CONTROL BREAKOUT.
G. EXTENDED WIDTH SILENCER. DUCT DIMENSION 36" X 70", OUTSIDE CASING DIMENSION 48" X 70". CASING TO BE HTL EQUIVALENT TO 10 GAUGE DUCT TO CONTROL BREAKOUT.
H. TRANSITIONAL TEE-SHAPED ELBOW SILENCER WITH EXTENDED WIDTH. INLET LEG DIMENSION 42" X 76", OUTSIDE CASING DIMENSION 48" X 76". ONE OUTLET LEG TO BE 42" X 76", OUTER CASING 48" X 76" . OTHER OUTLET LET TO BE 42" X 24", OUTER CASING TO BE 48" X 24". CASING TO BE HTL EQUIVALENT TO 10 GAUGE DUCT WALL TO CONTROL BREAKOUT.

SLIM LINE DRAFT BARRIER CONVECTION HEATER SCHEDULE

MARK	DESCRIPTION	MFR	MODEL	LENGTH	MAX HEIGHT	DEPTH	WATTS / FT	TOTAL WATTS	VOLTS / PH	AMPS	CONTROL TYPE	NOTES
BH-1	ARCHITECTURAL CONVECTOR	BERKO	BDBSL09	9'-0"	0'-6"	2-5/8"	150	1350	277 / 1	4.9	T-STAT, BAS	COORDINATE FINISH WITH ARCH
BH-2	ARCHITECTURAL CONVECTOR	BERKO	BDBSL09	9'-0"	0'-6"	2-5/8"	150	1350	277 / 1	4.9	T-STAT, BAS	COORDINATE FINISH WITH ARCH
BH-3	ARCHITECTURAL CONVECTOR	BERKO	BDBSL09	9'-0"	0'-6"	2-5/8"	150	1350	277 / 1	4.9	T-STAT, BAS	COORDINATE FINISH WITH ARCH

GENERAL NOTES APPLICABLE TO ALL UNITS:
1. WALL MOUNT. INSTALL FLUSH TO FLOOR. NO PEDESTAL.
2.. PROVIDE (2) 6" FILLER PLATES TO MATCH FINISH FOR CONTINUOUS LOOK A BETWEEN WALLS. CONFIRM REQUIRED LENGTH DURING CONSTRUCTION.
3. PROVIDE WITH FACTORY MOUNTED INTEGRAL DISCONNECT
4. PROVIDE END ELECTRICAL CONNECTION POINT WITH BUILT-IN WIRE WAY
5. THERMAL OVERLOAD PROTECTION
6. PROVIDE FACTORY POWER RELAY WITH 24V COIL. CONTROLS CONTRACTOR TO PROVIDE NECESSARY EQUIPMENT TO CONTROL HEATERS THROUGH BAS. REF CONTROLS SHEETS.

AIR DEVICE SCHEDULE

TAG	DESCRIPTION	MFR	MODEL	FACE SIZE	FRAME SIZE	NECK SIZE	MATERIAL/ FINISH	MAX FLOW	NOTES
CD-1	CEILING DIFFUSER, PLAQUE FACE	TITUS	OMNI-AA	9x9	12x12	6	ALUMINUM/ WHITE	100 CFM	-
CD-2	CEILING DIFFUSER, PLAQUE FACE	TITUS	OMNI-AA	18x18	24x24	8	ALUMINUM/ WHITE	250 CFM	-
CD-3	CEILING DIFFUSER, PLAQUE FACE	TITUS	OMNI-AA	18x18	24x24	10	ALUMINUM/ WHITE	350 CFM	-
CD-4	CEILING DIFFUSER, PLAQUE FACE	TITUS	OMNI-AA	18x18	24x24	12	ALUMINUM/ WHITE	475 CFM	-
CD-5	2-WAY TIERED DIFFUSER WITH ADJUSTABLE PATTERN CONTROL VANES	TITUS	TDC-A	18x18 DIM 'A'	24x24	BRANCH SIZE	ALUMINUM/ WHITE	800 CFM	S2 PATTERN
CD-6	CEILING DIFFUSER, PLAQUE FACE	TITUS	OMNI-AA	18x18	24x24	14	ALUMINUM/ WHITE	800 CFM	-
EG-1	RETURN GRILLE, EGGCRATE CORE - 1/2x1/2x1/2	TITUS	50F	22x22	24x24	N/A	ALUMINUM/ WHITE	1600 CFM	-
EG-2	RETURN GRILLE, EGGCRATE CORE - 1/2x1/2x1/2	TITUS	50F	10x10	12x12	N/A	ALUMINUM/ WHITE	600 CFM	-
LD-1	LINEAR SLOT SUPPLY DIFFUSER, 1" SLOT, 5 SLOT, 4FT LENGTH	TITUS	ML-39	1" SLOT	5 SLOT	4 FT LENGTH	ALUMINIUM/ REF ARCH	400 CFM	-
LD-2	LINEAR SLOT SUPPLY DIFFUSER, 1" SLOT, 1 SLOT, 4FT LENGTH	TITUS	FL-10	1" SLOT	1 SLOT	4 FT LENGTH	ALUMINIUM/ REF ARCH	300 CFM	-
LD-3	LINEAR SLOT SUPPLY DIFFUSER, 2.5" SLOT, 1 SLOT, 5FT LENGTH	TITUS	FL-25	2.5" SLOT	1 SLOT	5 FT LENGTH	ALUMINIUM/ REF ARCH	600 CFM	
LD-4	LINEAR SLOT SUPPLY DIFFUSER, 2.5" SLOT, 1 SLOT, 4FT LENGTH	TITUS	FL-25	2.5" SLOT	1 SLOT	4 FT LENGTH	ALUMINIUM/ REF ARCH	400 CFM	-
LD-5	LINEAR SLOT SUPPLY DIFFUSER, 2.5" SLOT, 2 SLOT, 5FT LENGTH	TITUS	FL-25	2.5" SLOT	2 SLOT	5 FT LENGTH	ALUMINIUM/ REF ARCH	400 CFM	-
RG-1	RETURN GRILLE, EGGCRATE CORE - 1/2x1/2x1/2	TITUS	50F	22x22	24x24	N/A	ALUMINUM/ WHITE	1600 CFM	-
SEG-1	EXHAUST GRILLE WITH 35 DEGREE DEFLECTION	Titus	350FL	24X24	26X26	N/A	ALUMINUM/ WHITE	2400 CFM	-
SEG-2	EXHAUST GRILLE WITH 35 DEGREE DEFLECTION	Titus	350FL	24X36	26X36	N/A	ALUMINUM/ WHITE	3400 CFM	-
SEG-3	EXHAUST GRILLE WITH 35 DEGREE DEFLECTION	Titus	350FL	10X10	12X12	N/A	ALUMINUM/ WHITE	300 CFM	-
SG-1	SIDEWALL SUPPLY DIFFUSER. DOUBLE DEFLECTION 3/4" O.C. SPACING. FRONT BLADES PARALLEL TO SHORT DIMENSION.	TITUS	272	8x6	9.75x7.75	N/A	ALUMINUM/ WHITE	182 CFM	-

GENERAL NOTES APPLICABLE TO ALL UNITS:
1. COORDINATE AIR DEVICE DEFLECTION ADJUSTMENTS WITH THE MECHANICAL ENGINEER DURING AIR BALANCE.
2. PROVIDE 2" FACTORY FIBERGLASS WRAP ON ALL SUPPLY DIFFUSERS WITH BACKSIDE NOT EXPOSED TO SPACE.
3. FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR.
4. ALL AIR DEVICES ARE 4-WAY THROW UNLESS OTHERWISE NOTED IN SCHEDULES OR WITH FLOW ARROWS ON DRAWINGS.
5. REFER TO SPECIFICATIONS FOR APPROVED ALTERNATES.
6. BRANCH DUCT SIZE SHALL BE SAME AS NOTED DIFFUSER NECK SIZE UNLESS NOTED OTHERWISE. PROVIDE TRANSITION WHERE DUCT SIZE DIFFERS FROM NECK SIZE.
7. WHERE FINISH AND COLOR ARE NOTED TO BE SELECTED BY ARCHITECT/OWNER, THIS CONTRACTOR SHALL PROVIDE A COLOR PALETTE SAMPLE FOR FINAL APPROVAL WITH THE SUBMITTALS.
8. COORDINATE WITH ARCHITECT'S REFLECTED CEILING PLAN TO PROVIDE APPROPRIATE FRAME TYPE AND MOUNTING ACCESSORIES.
9. EQUALS PER SPECIFICATIONS.

EXHAUST FAN SCHEDULE

MARK	DESCRIPTION	MFR	MODEL	DRIVE	FLOW	ESP	RPM	VOLTS	PH	POWER	FLA (AMPS)	CONTROL TYPE	ACCESSORIES	NOTES
DEF-1-1	DRYER EXHAUST	FANTEC	DBF 110	DIRECT	188	-	2175	120 V	1	64.8 W	0.54	PRESSURE SWITCH	K	-
DEF-B-1	DRYER EXHAUST	FANTEC	DBF 110	DIRECT	188	-	2175	120 V	1	64.8W	0.54	PRESSURE SWITCH	K	-
EF-1	DOWNBLAST	GREENHECK	G-133-VG	DIRECT	1420	1.25	1624	120 V	1	3/4 HP	8.8	BAS	B	1,2,5,6
EF-2	DOWNBLAST	GREENHECK	G-163-VG	DIRECT	2425	1.3	1383	208 V	1	2 HP	12	BAS	B	1,2,5,6
EF-3	CEILING MOUNTED EXHAUST FAN	GREENHECK	SP-A510-VG	DIRECT	250	0.25	821	277 V	1	155 W	-	T-STAT	A,F	1,2,5
EF-4	CEILING MOUNTED EXHAUST FAN	GREENHECK	SP-A510-VG	DIRECT	250	0.25	821	277 V	1	155 W	-	T-STAT	A,F	1,2,5
EF-5	CEILING MOUNTED EXHAUST FAN	GREENHECK	SP-A510-VG	DIRECT	250	0.25	821	277 V	1	155 W	-	T-STAT	A,F	1,2,5
EF-6	CEILING MOUNTED EXHAUST FAN	GREENHECK	SP-A510-VG	DIRECT	250	0.25	821	277 V	1	155 W	-	T-STAT	A,F	1,2,5
EF-7	BELT DRIVE UPBLAST	GREENHECK	CUBE-360XP-7 5	BELT	8000	2.35	1343	460 V	3	7.5 HP	11	BAS	B	1,2,5,6

GENERAL NOTES APPLICABLE TO ALL UNITS:
1. PROVIDE PRE-WIRED FACTORY MOUNTED INTEGRAL DISCONNECT DEVICE (NEMA 3R FOR EXTERIOR).
2. PROVIDE VARIABLE SPEED CONTROLLER (FACTORY INSTALLED IF AVAILABLE) ON ALL DIRECT DRIVE FANS FOR FAN BALANCING.
3. PROVIDE BELT TENSIONER ON ALL BELT DRIVE FANS.
4. PROVIDE WALL SLEEVE, FAN GUARD, EXTERIOR WEATHER HOOD AND MOTORIZED DAMPER WITH TIME DELAY CONTROLS ON ALL WALL MOUNTED PROPELLER FANS.
5. MOUNT FAN SPEED CONTROLLER IN ACCESSIBLE LOCATION ABOVE CEILING UNLESS OTHERWISE NOTED.
6. PROVIDE ROOF CURB TO MATCH ROOF TYPE AND SLOPE AT ALL ROOF MOUNTED FANS.

NOTES
A PROVIDE BACKDRAFT DAMPER.
B PROVIDE MOTORIZED DAMPER WITH TIME DELAY FAN START. MECHANICAL CONTRACTOR RESPONSIBLE FOR INSTALLING FAN, ROOF CURB, BACK DRAFT DAMPER, AND ALL INTERNAL POWER AND CONTROL WIRING AS REQUIRED TO PROVIDE FULLY OPERATIONAL FAN AND DAMPER.
C PROVIDE WITH VARIABLE FREQUENCY DRIVE SAME SIZE AS LISTED MOTOR HORSE POWER. PROVIDE WITH INVERTER DUTY (NEMA MGI PART 31), MOTOR-MOUNTED GROUNDING RING. REFER TO VARIABLE FREQUENCY DRIVE SCHEDULE FOR SPECIFICS.
D PROVIDE SPUN ALUMINUM VENT CAP, COOK MODEL "PR" WITH ROOF CURB.
E PROVIDE MANUFACTURER'S BRICK VENT. COLOR TO BE SELECTED BY ARCHITECT.
F PROVIDE MANUFACTURER'S WHITE ALUMINUM GRILLE.
G PROVIDE BIRD SCREEN.
H PROVIDE ISOLATOR KIT.
I PROVIDE MANUFACTURER'S WALL CAP.
J PROVIDE GREASE COLLECTION CUP.
K PROVIDE UL507 AND ETL SAFTEY-LISTED FAN WITH INTEGRAL PRESSURE SWITCH TO AUTOMATICALLY ACTIVATE FAN WHEN DRYER IS TURNED ON. LOCATE FAN AND PROVIDE SECONDARY LINT TRAP AND SIGNAGE PER PLAN NOTES.

MINI SPLIT SCHEDULE

INDOOR	OUTDOOR	MANUFACTURER	MODEL INDOOR / OUTDOOR	SEER	HSPF	COOLING CAPACITY	HEATING CAPACITY @ 47F	VOLTS / PH	MCA	MOCP	NOTES
MAH-0-0	MCU-0-0	MITSUBISHI	PKA-A12HA7 / PUZ-A12NKA7	20.8	10.2	12000	18000	208/1	14 A	15 A	2,3,4
MAH-0-1	MCU-0-1	MITSUBISHI	PKA-A36KA6 / PUY-A36NHA6	14	N/A	36000	N/A	208/1	34 A	40 A	1,2,3,4
MAH-0-2	MCU-0-2	MITSUBISHI	PKA-A36KA6 / PUY-A36NHA6	14	N/A	36000	N/A	208/1	34 A	40 A	1,2,3,4
MAH-0-3	MCU-0-3	MITSUBISHI	PKA-A12HA6 / PUY-A12NHA6	15.2	N/A	12000	N/A	208/1	14 A	15 A	1,2,3,4
MAH-0-4	MCU-0-4	MITSUBISHI	PKA-A36KA6 / PUY-A36NHA6	14	N/A	36000	N/A	208/1	34 A	40 A	1,2,3,4
MAH-0-5	MCU-0-5	MITSUBISHI	PKA-A12HA6 / PUY-A12NHA6	15.2	N/A	12000	N/A	208/1	14 A	15 A	1,2,3,4
MAH-1-1	MCU-1-1	MITSUBISHI	PKA-A12HA6 / PUY-A12NHA6	15.2	N/A	12000	N/A	208/1	14 A	15 A	1,2,3,4
MAH-1-2	MCU-1-2	MITSUBISHI	PKA-A36KA6 / PUZ-HA36NHA5	16.2	10	36000	38000	208/1	34 A	40 A	2,3,4
MAH-1-3	MCU-1-3	MITSUBISHI	PKA-A18HA6 / PUZ-A18NHA6	15.3	9.5	18000	18000	208/1	18 A	20 A	2,3,4
MAH-2-1	MCU-2-1	MITSUBISHI	PKA-A12HA6 / PUY-A12NHA6	15.2	N/A	12000	N/A	208/1	14 A	15 A	1,2,3,4
MAH-2-2	MCU-2-2	MITSUBISHI	PKA-A24KA6 / PUZ-A24NHA6	17	10.8	24000	26000	208/1	26 A	30 A	2,3,4
MAH-2-3	MCU-2-3	MITSUBISHI	PKA-A18HA6 / PUZ-A18NHA6	15.3	9.5	18000	18000	208/1	18 A	20 A	2,3,4
MAH-3-1	MCU-3-1	MITSUBISHI	PKA-A12HA6 / PUY-A12NHA6	15.2	N/A	12000	N/A	208/1	14 A	15 A	1,2,3,4
MAH-3-2	MCU-3-2	MITSUBISHI	PKA-A18HA6 / PUZ-A18NHA6	15.3	9.5	18000	18000	208/1	18 A	20 A	2,3,4
MAH-3-3	MCU-3-3	MITSUBISHI	PKA-A18HA6 / PUZ-A18NHA6	15.3	9.5	18000	18000	208/1	18 A	20 A	2,3,4

GENERAL NOTES:
1. LOW AMBIENT TO 0°F (SYSTEM SHALL MAINTAIN 100% COOLING AT 0°F)
2. ALL REFRIGERANT LINES SHALL BE INSULATED.
3. PROGRAMMABLE THERMOSTAT INTEGRATE TO BAS VIA BACNET.
4. CONDENSATE PUMP (ASPEN MINI BLANC OR BLUE DIAMOND ONLY).

GENERAL MECHANICAL NOTES

1	SUBMISSION OF PROPOSAL IN CONNECTION WITH THIS WORK SHALL IMPLY THAT THE BIDDER HAS EXAMINED THE JOB SITE UNDER WHICH HE WILL BE OBLIGATED TO OPERATE SHOULD HE BE AWARDED THE WORK UNDER THIS CONTRACT. NO EXTRA CHARGE WILL BE ALLOWED FOR FAILURE OF ANY BIDDER TO EXAMINE THE SITE PRIOR TO BID.
2	ALL RECTANGULAR DUCT SIZES SHOWN ARE THE OUTSIDE METAL DIMENSIONS. DUCT DIMENSIONS ALREADY HAVE ALLOWANCES FOR THE INSULATION LINER WHERE APPLICABLE IN THE RECTANGULAR DUCTS. AT DUAL WALL DUCTS, THE DIMENSION SHOWN IS THE OUTSIDE METAL DUCT SIZE AND ALREADY HAVE ALLOWANCES FOR THE INSULATION THICKNESS.
3	ALL WORK SHALL CONFORM TO STATE AND LOCAL CODES, RULES, REGULATIONS, AND ORDINANCES WHICH SHALL TAKE PRECEDENCE OVER THE PLANS IF CONFLICTS EXIST BETWEEN THEM.
4	THE DRAWINGS INDICATE THE GENERAL LAYOUT REQUIREMENTS FOR EQUIPMENT, FIXTURES, PIPING, DUCTWORK, ETC. FINAL LAYOUT SHALL BE MODIFIED TO FIT ACTUAL SITE CONDITIONS.
5	COORDINATE ALL WORK WITH THE OWNER AND ALL OTHER CONTRACTORS. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RIGGING, HANDLING, AND PROTECTION OF MATERIALS. PROVIDE LABOR TO RECEIVE UNLOAD, STORE, PROTECT, AND TRANSFER TO POINT OF INSTALLATION OF ANY OWNER-FURNISHED ITEMS.
6	IN CASES OF EQUIPMENT SUBSTITUTION, CONTRACTOR IS RESPONSIBLE FOR VERIFYING THAT ALL SYSTEMS AND COMPONENTS WILL FIT PROPERLY PRIOR TO FABRICATION OR ORDERING. INSTALLED DUCTS MAY BE RESIZED BY THE CONTRACTOR TO FIT FIELD CONDITIONS AS LONG AS THE INSTALLED DUCTS SHALL HAVE EQUAL FRICTION LOSS TO THOSE SHOWN. RECTANGULAR DUCTS SHALL NOT BE CHANGED TO ROUND DUCTS. PROVIDE COMPLETE SHEET METAL SHOP DRAWINGS TO ENGINEER SHOWING ACTUAL DUCT SIZES, ARRANGEMENTS, AND UNIT LOCATIONS TO BE INSTALLED. THIS SHALL BE DONE PRIOR TO FABRICATION OR INSTALLATION.
7	INSTALL ACOUSTIC TURNING VANES IN ELBOWS IN RECTANGULAR DUCTS 20" AND LARGER. INSTALL RADIUS TYPE ELBOWS IN RECTANGULAR DUCTS SMALLER THAN 20".
8	USE 45 DEGREE TAKE-OFF FITTINGS AT ALL ROUND SUPPLY BRANCH TAKEOFFS. PROVIDE BALANCE DAMPERS AT ALL SUPPLY DUCT RUNOUTS TO GRILLES. LOCATE AS FAR AS POSSIBLE FROM GRILLES IN AN ACCESSIBLE LOCATION. PROVIDE ACCESS PANELS IN SOLID WALLS AND CEILINGS FOR BALANCING DAMPERS.
9	USE FLEX DUCTS FOR FINAL CONNECTION TO ALL CEILING DIFFUSERS, AND WHERE NECESSARY, SIDEWALL DIFFUSERS, AND LIMIT TO 6' MAX. LENGTHS.
10	PROVIDE A COMPLETE AND OPERATING MECHANICAL SYSTEM, INCLUDING ALL INCIDENTAL ITEMS AND CONNECTIONS NECESSARY FOR PROPER OPERATION OR CUSTOMARILY INCLUDED, EVEN THOUGH EACH AND EVERY ITEM MAY NOT BE INDICATED.
11	THE MECHANICAL INSTALLATION SHALL BE SAFE, RELIABLE, ENERGY EFFICIENT AND EASILY MAINTAINED WITH ADEQUATE PROVISIONS ALLOWED FOR ACCESS TO EQUIPMENT.
12	THE MECHANICAL SYSTEM SHALL OPERATE QUIETLY WITH NOISE LEVELS BELOW THE CRITERIA RECOMMENDED FOR THE APPLICATION BY ASHRAE. PROVIDE CORRECTIVE ACTION AS REQUIRED TO REDUCE OBJECTIONABLE NOISE OR VIBRATION.
13	UNDERCUT DOORS 3/4 INCH WHERE NO RETURN NOR EXHAUST GRILLE IS SHOWN TO ALLOW FOR AIR TRANSFER (DO NOT UNDERCUT FIREDOORS.)
14	REFER TO ARCH. PLANS AND DETAILS FOR EXACT LOCATION OF ALL WALL AND CEILING MOUNTED DEVICES. ADJUST LOCATION OF SIDEWALL DEVICES AS NECESSARY TO AVOID INTERFERENCE WITH MOLDING OR OTHER ELECTRICAL DEVICES.
15	WHERE CONDUIT, CABLES, DUCTWORK OR PIPING PASSES THROUGH FIRE-RATED FLOORS OR WALLS, THE SLEEVES SHALL BE COMPLETELY SEALED WITH A FIRE STOP MATERIAL THAT IS UL LISTED AND ACCEPTED BY LOCAL AUTHORITIES HAVING JURISDICTION (AHJ) AS BEING SUITABLE FOR THIS SERVICE SUCH AS DOWN CORNING CORP "SILICONE ELASTOMER, RTV FOAM, OR SIMILAR MATERIAL TO MAINTAIN FIRE RATING OF THE WALL OR FLOOR.
16	CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CORING AND BEAM PENETRATIONS AS IT RELATES TO HIS WORK.
17	CONTRACTOR SHALL NOT INSTALL ANY MAINTENANCE ITEMS ABOVE HARD CEILINGS. THIS SHALL INCLUDE VALVES, DAMPERS, OR ANY OTHER ITEMS THAT REQUIRE ACCESS AFTER CONSTRUCTION IS COMPLETED. IF INSTALLATION ABOVE A HARD CEILING OF THESE ITEMS CANNOT BE AVOIDED, THEN PROVIDE CEILING ACCESS DOORS EQUAL TO ACUDOR MODEL FW-505 WHERE REQUIRED. AT FIRE-RATED WALLS, USE EQUIVALENT OF ACUDOR MODEL FB-5060. MINIMUM SIZE SHALL BE 12"x12". USE 18"x18" WHEN PERSONNEL ACCESS IS REQUIRED.
18	PROVIDE AN INSULATED BACK ON ALL THERMOSTATS AND TEMPERATURE SENSORS THAT ARE MOUNTED ON CMU OR HOLLOW WALLS. PROVIDE SHALLOW DEVICE EXTENSION BOX BEHIND T-STATS AND SENSORS ON MASONRY WALLS IN COMMERCIAL / RETAIL SPACES.
19	PROVIDE FIRE DAMPERS AT ALL FIRE-RATED WALLS AND FLOOR PENETRATIONS. REFER TO ARCHITECTURAL DRAWINGS FOR FIRE BARRIER WALLS AND CEILINGS.
20	IF A CENTRAL FIRE ALARM SYSTEM IS REQUIRED FOR THIS PROJECT, MECHANICAL CONTRACTOR SHALL INSTALL DUCT MOUNTED SMOKE DETECTORS PROVIDED BY FIRE ALARM CONTRACTOR. REFER TO ELECTRICAL NOTES FOR EXACT REQUIREMENTS. MECHANICAL CONTRACTOR SHALL IDENTIFY A SET OF TERMINALS FOR EQUIPMENT SHUTDOWN ON ALL FAN POWERED EQUIPMENT REQUIRING SHUTDOWN CONTROLS. FIRE ALARM CONTRACTOR SHALL WIRE FROM DUCT MOUNTED SMOKE DETECTOR TO SHUTDOWN TERMINALS TO SHUT DOWN FAN OPERATION WHEN SMOKE IS DETECTED.
21	AT PENETRATIONS THROUGH FIRE WALLS: ANY PVC PIPE OR DUCT SHOULD BE EXTERNALLY SLEEVED WITH STEEL, FERROUS, OR COPPER MATERIALS, SECURELY FASTENED TO THE FIRE RATED ASSEMBLY, AND ANY SPACE BETWEEN THE SLEEVE AND THE ASSEMBLY PENETRATED SHALL BE PROTECTED USING MATERIAL THAT CONFORMS TO ASTM E 814 OR UL 1479, SUCH AS FIRE STOP FS-1900, OR FLAME STOPPER 5000.
22	REFER TO ELECTRICAL DRAWINGS FOR SMOKE DAMPER AND FIRE/SMOKE DAMPER DETAIL. MECHANICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL DAMPERS WITH MOTORIZED ACTUATORS AND INSTALL SMOKE DETECTORS AND PROVIDE WIRING FOR FAN SHUTDOWN CONTROLS. COORDINATE WITH ELECTRICAL CONTRACTOR AND PROVIDE DAMPER ACTUATOR COMPATIBLE WITH ELECTRICAL WIRING PROVIDED. PROVIDE ANY WIRING OR COMPONENTS NOT PROVIDED BY THE ELECTRICAL CONTRACTOR THAT ARE REQUIRED TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM.
23	AHEAD OF ALL VAV BOX INLETS, INSTALL STRAIGHT DUCT EQUIVALENT TO AT LEAST 2 DIAMETERS IN LENGTH WHETHER SHOWN ON PLANS OR NOT.
24	SEISMIC PROTECTION FOR CONCERNS OF ALL BUILDING SYSTEMS INCLUDING BUT NOT LIMITED TO MECHANICAL, PLUMBING, AND ELECTRICAL MUST MEET MINIMUM REQUIREMENTS OF ALL APPLICABLE CODES FOR BUILDINGS' CLASSIFIED SEISMIC PROTECTION MEASURES TO BE APPLIED SHALL BE INSTALLED IN STRICT ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND/OR FEDERAL CODES AND WITH MANUFACTURERS'S REQUIREMENTS, THE MOST STRINGENT SHALL APPLY
26	NO RECTANGULAR DUCT SMALLER THAN 10"X10"

GENERAL NOTE:
ALL RECTANGULAR DUCT SIZES SHOWN ARE THE OUTSIDE METAL DIMENSIONS. DUCT DIMENSIONS ALREADY HAVE ALLOWANCES FOR THE INSULATION LINER WHERE APPLICABLE IN THE RECTANGULAR DUCTS. AT DUAL WALL DUCTS, THE DIMENSION SHOWN IS THE OUTSIDE METAL DUCT SIZE AND ALREADY HAS ALLOWANCES FOR THE INSULATION THICKNESS.

MECHANICAL DUCTWORK & INSULATION SCHEDULE

SERVICE	DUCT TYPE	INSULATION TYPE	INSULATION THICKNESS
ALL LOW PRESSURE CONSTANT VOLUME SUPPLY AIR DUCT FROM AIR HANDLER OR PACKAGED UNIT	ROUND WRAPPED OR RECTANGULAR LINED, AS INDICATED ON PLANS.	FIBERGLASS WRAP OR MATTE FACED FIBERGLASS LINER	2" WRAP OR 1-1/2" LINER, R VALUE=6.0
ALL RUNOUTS TO SUPPLY DIFFUSERS AND RETURN GRILLES CONCEALED ABOVE CEILINGS	ROUND WRAPPED OR RECTANGULAR LINED, AS INDICATED ON PLANS.	FIBERGLASS WRAP OR MATTE FACED FIBERGLASS LINER	2" WRAP OR 1-1/2" LINER, R VALUE=6.0
ALL RUNOUTS TO SUPPLY DIFFUSERS AND RETURN GRILLES VISIBLE TO OCCUPIED SPACE	DOUBLE WALL SPIRAL WITH PERFORATED METAL LINER	FIBERGLASS EQUAL TO UNITED MCGILL ACOUSTIC - K27	1-1/2", R VALUE=6.0
ALL SUPPLY AIR DIFFUSERS (BACKSIDE, NOT EXPOSED TO SPACE)	N/A	FIBERGLASS WRAP	2" WRAP, R VALUE=6.0
FRESH AIR EXHAUST DUCT	ROUND WRAPPED OR RECTANGULAR LINED, AS INDICATED ON PLANS.	FIBERGLASS WRAP OR MATTE FACED FIBERGLASS LINER. N/A IF IN UNCONDITIONED SPACE	2" WRAP OR 1-1/2" LINER, R VALUE=6.0
RESTROOM EXHAUST DUCT	ROUND WRAPPED OR RECTANGULAR LINED, AS INDICATED ON PLANS.	FIBERGLASS WRAP OR MATTE FACED FIBERGLASS LINER FIBERGLASS LINER	2" WRAP OR 1-1/2" LINER, R VALUE=6.0
ALL MEDIUM PRESSURE CONSTANT VOLUME AND VAV SUPPLY AIR DUCT FOR FIRST 20' FROM AIR HANDLER OR PACKAGED UNIT	DOUBLE WALL SPIRAL WITH PERFORATED METAL LINER	FIBERGLASS EQUAL TO UNITED MCGILL ACOUSTIC - K27	1-1/2", R VALUE=6.0
ALL MEDIUM PRESSURE CONSTANT VOLUME AND VAV SUPPLY AIR DUCT BEYOND 20' FROM AIR HANDLER OR PACKAGED UNIT	ROUND WRAPPED OR RECTANGULAR LINED, AS INDICATED ON PLANS.	FIBERGLASS WRAP OR MATTE FACED FIBERGLASS LINER FIBERGLASS LINER	2" WRAP OR 1-1/2" LINER, R VALUE=6.0
COMBUSTION AIR SUPPLY DUCT	ROUND WRAPPED METAL OR PVC AS INDICATED ON PLANS	THERMAL CERAMICS FIREMASTER. UL LISTED FOR ZERO CLEARANCE TO COMBUSTIBLES	1-1/2", R VALUE=6.0
ALL LOW PRESSURE RETURN AIR DUCT FROM AIR HANDLER OR PACKAGED UNIT	ROUND WRAPPED OR RECTANGULAR LINED, AS INDICATED ON PLANS.	FIBERGLASS WRAP OR MATTE FACED FIBERGLASS LINER	2" WRAP OR 1-1/2" LINER, R VALUE=6.0

MECHANICAL PIPING & INSULATION SCHEDULE

NOTE: ALL EXTERIOR INSULATED PIPING TO BE PROVIDED WITH ALUMINUM JACKET.

SERVICE	PIPING TYPE	INSULATION TYPE	INSULATION THICKNESS	INSULATION THICKNESS / NOMINAL PIPE SIZE <1	1 TO <1-1/2	1-1/2 TO <4	4 TO <8	≥8
EQUIPMENT DRAINS, COOLING CONDENSATE LINES, AND OVERFLOWS	TYPE "L" HARD COPPER	ELASTOMERIC	3/8" IF INTERIOR SPACE N/A EXTERIOR SPACE	0.5	0.5	1.0	1.0	1.0
REFRIGERANT PIPING	COPPER REFRIGERANT PIPING	ELASTOMERIC	1" ON SUCTION LINE	0.5	1.0	1.0	1.0	1.5
ALL OUTDOOR INSULATED PIPING	PROVIDE WITH EMBOSSED ALUMINUM JACKET OVER SCHEDULED INSULATION	PER SCHEDULE	N/A					

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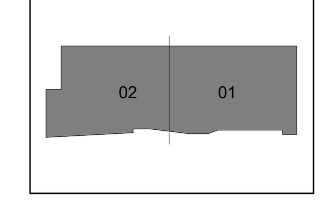
KEY PLAN:



PROJECT PHASE:
95% CONSTRUCTION DOCUMENTS

REVISIONS

#	DATE	DESCRIPTION

DATE: 07-26-19
JOB NUMBER: 17-13
SHEET NUMBER: M1.00

MECHANICAL SCHEDULES AND NOTES

STRAIGHT VAV BOX WITH ELECTRIC REHEAT SCHEDULE - RTU-4

mca	MANUFACTURER	MODEL	VALVE SIZE (in.)	DESIGN COOLING CFM	MINIMUM COOLING CFM	HEATING CFM	HEAT LAT (°F)	HEAT (kW)	STAGES	CONTROL TYPE	UNIT VOLTS / PHASE	MCA	MOCP	NOTES
VAV-4-1	TRANE	VCEF08	08	500	375	375	93	4.5	SCR	BAS	277/1	16 A	20 A	SEE BELOW
VAV-4-2	TRANE	VCEF06	06	300	50	50	87	0.5	SCR	BAS	277/1	2 A	15 A	SEE BELOW
VAV-4-3	TRANE	VCEF06	06	300	50	50	87	0.5	SCR	BAS	277/1	2 A	15 A	SEE BELOW
VAV-4-4	TRANE	VCEF08	08	400	275	275	90	3	SCR	BAS	277/1	10 A	15 A	SEE BELOW
VAV-4-5	TRANE	VCEF12	12	1850	575	575	90	6.5	SCR	BAS	480/3	8 A	15 A	SEE BELOW
VAV-4-6	TRANE	VCEF06	06	625	300	300	92	3.5	SCR	BAS	277/1	13 A	20 A	SEE BELOW
VAV-4-7	TRANE	VCEF06	06	360	175	175	91	2	SCR	BAS	277/1	7 A	15 A	SEE BELOW
VAV-4-8	TRANE	VCEF06	06	360	175	175	91	2	SCR	BAS	277/1	7 A	15 A	SEE BELOW
VAV-4-9	TRANE	VCEF06	06	200	100	100	90	1	SCR	BAS	277/1	3 A	15 A	SEE BELOW
VAV-4-10	TRANE	VCEF05	05	100	50	50	87	0.5	SCR	BAS	277/1	3 A	15 A	SEE BELOW
VAV-4-11	TRANE	VCEF08	08	780	400	400	90	4.5	SCR	BAS	277/1	16 A	20 A	SEE BELOW
VAV-4-12	TRANE	VCEF06	06	125	50	50	87	1	SCR	BAS	277/1	3 A	15 A	SEE BELOW
VAV-4-13	TRANE	VCEF06	06	300	100	100	102	1.5	SCR	BAS	277/1	6 A	15 A	SEE BELOW
VAV-4-14	TRANE	VCEF08	08	380	275	275	90	3	SCR	BAS	277/1	10 A	15 A	SEE BELOW
VAV-4-15	TRANE	VCEF08	08	800	250	250	93	3	SCR	BAS	277/1	11 A	15 A	SEE BELOW
VAV-4-16	TRANE	VCEF06	06	200	100	100	90	1	SCR	BAS	277/1	3 A	15 A	SEE BELOW
VAV-4-17A	TRANE	VCEF08	08	900	225	225	90	2.5	SCR	BAS	277/1	9 A	15 A	SEE BELOW
VAV-4-17B	TRANE	VCEF12	12	1600	500	500	90	5.5	SCR	BAS	480/3	7 A	15 A	SEE BELOW
VAV-4-18	TRANE	VCEF05	05	100	50	50	87	0.5	SCR	BAS	277/1	3 A	15 A	SEE BELOW
VAV-4-19	TRANE	VCEF08	08	500	150	150	87	1.5	SCR	BAS	277/1	6 A	15 A	SEE BELOW
VAV-4-20	TRANE	VCEF08	08	650	200	200	94	2.5	SCR	BAS	277/1	9 A	15 A	SEE BELOW
VAV-4-21	TRANE	VCEF08	08	650	200	200	94	2.5	SCR	BAS	277/1	9 A	15 A	SEE BELOW
VAV-4-23	TRANE	VCEF08	08	550	175	175	92	2	SCR	BAS	277/1	7 A	15 A	SEE BELOW
VAV-4-24	TRANE	VCEF14	14	2200	675	675	90	7.5	SCR	BAS	480/3	9 A	15 A	SEE BELOW
VAV-4-25	TRANE	VCEF08	08	450	150	150	87	1.5	SCR	BAS	277/1	6 A	15 A	SEE BELOW
VAV-4-26	TRANE	VCEF08	08	450	150	150	87	1.5	SCR	BAS	277/1	6 A	15 A	SEE BELOW
VAV-4-27	TRANE	VCEF10	10	1000	325	325	94	4	SCR	BAS	277/1	14 A	20 A	SEE BELOW
VAV-4-28	TRANE	VCEF06	06	350	175	175	91	2	SCR	BAS	277/1	7 A	15 A	SEE BELOW
VAV-4-29	TRANE	VCEF08	08	600	200	200	94	2.5	SCR	BAS	277/1	9 A	15 A	SEE BELOW
VAV-4-30	TRANE	VCEF06	06	300	100	100	102	1.5	SCR	BAS	277/1	6 A	15 A	SEE BELOW
VAV-4-31	TRANE	VCEF08	08	600	200	200	94	2.5	SCR	BAS	277/1	9 A	15 A	SEE BELOW
VAV-4-32	TRANE	VCEF06	06	275	100	100	102	1.5	SCR	BAS	277/1	6 A	15 A	SEE BELOW
VAV-4-33	TRANE	VCEF05	05	130	50	50	87	0.5	SCR	BAS	277/1	3 A	15 A	SEE BELOW
VAV-4-34	TRANE	VCEF08	08	360	175	175	92	2	SCR	BAS	277/1	7 A	15 A	SEE BELOW
VAV-4-35	TRANE	VCEF08	08	400	150	150	87	2	SCR	BAS	277/1	6 A	15 A	SEE BELOW
VAV-4-36	TRANE	VCEF08	08	400	400	400	90	4.5	SCR	BAS	277/1	16 A	20 A	SEE BELOW
VAV-4-37	TRANE	VCEF12	12	1350	450	450	90	5	SCR	BAS	480/3	6 A	15 A	SEE BELOW
VAV-4-38	TRANE	VCEF12	12	1450	450	450	90	5	SCR	BAS	480/3	6 A	15 A	SEE BELOW
VAV-4-39	TRANE	VCEF14	14	2300	700	700	91	8	SCR	BAS	480/3	10 A	15 A	SEE BELOW
VAV-4-40	TRANE	VCEF10	10	1000	300	300	92	3.5	SCR	BAS	277/1	13 A	20 A	SEE BELOW

GENERAL NOTES APPLICABLE TO ALL UNITS:
1. VAV BOX INLET STATIC PRESSURE IS TO BE 0.75".
2. PROVIDE ALL VAV BOXES WITH DDC CONTROLS, ACTUATOR, FACTORY MOUNTED DISCONNECT SWITCH, AIR FLOW SAFETY SWITCH, CONTROL POWER TRANSFORMER AND FUSES, AND SINGLE POINT ELECTRICAL CONNECTION WITH FUSES. LOW VOLTAGE WIRING BY MECHANICAL CONTRACTOR.
3. UNIT INSULATION SHALL BE MATTE FACED WITH 1" INSULATION. TYPICAL FOR ALL

STRAIGHT VAV BOX WITH ELECTRIC REHEAT SCHEDULE - RTU-3

MARK	MANUFACTURER	MODEL	VALVE SIZE (in.)	DESIGN COOLING CFM	MINIMUM COOLING CFM	HEATING CFM	HEAT LAT (°F)	HEAT (kW)	STAGES	CONTROL TYPE	UNIT VOLTS / PHASE	MCA	MOCP	NOTES
VAV-3-1	TRANE	VCEF10	10	1370	425	425	92	5	SCR	BAS	480/3	6 A	15 A	SEE BELOW
VAV-3-2	TRANE	VCEF08	08	450	250	250	93	3	SCR	BAS	277/1	10 A	15 A	SEE BELOW
VAV-3-3	TRANE	VCEF10	10	1100	325	325	89	3.5	SCR	BAS	277/1	13 A	15 A	SEE BELOW
VAV-3-4	TRANE	VCEF08	08	600	200	200	94	2.5	SCR	BAS	277/1	9 A	15 A	SEE BELOW
VAV-3-5	TRANE	VCEF10	10	1100	350	350	91	4	SCR	BAS	277/1	15 A	20 A	SEE BELOW
VAV-3-6	TRANE	VCEF08	08	800	250	250	93	3	SCR	BAS	277/1	10 A	15 A	SEE BELOW
VAV-3-7	TRANE	VCEF08	08	720	225	225	90	2.5	SCR	BAS	277/1	9 A	15 A	SEE BELOW
VAV-3-8	TRANE	VCEF05	05	275	100	100	102	1.5	SCR	BAS	277/1	6 A	15 A	SEE BELOW
VAV-3-9	TRANE	VCEF05	05	275	100	100	102	1.5	SCR	BAS	277/1	6 A	15 A	SEE BELOW
VAV-3-10	TRANE	VCEF08	08	450	200	200	94	2.5	SCR	BAS	277/1	9 A	15 A	SEE BELOW
VAV-3-11	TRANE	VCEF06	06	425	125	125	93	1.5	SCR	BAS	277/1	6 A	15 A	SEE BELOW
VAV-3-12	TRANE	VCEF12	12	1450	450	450	90	5	SCR	BAS	480/3	6 A	15 A	SEE BELOW
VAV-3-13	TRANE	VCEF08	08	650	200	200	94	2.5	SCR	BAS	277/1	9 A	15 A	SEE BELOW
VAV-3-14	TRANE	VCEF08	08	480	150	150	87	1.5	SCR	BAS	277/1	6 A	15 A	SEE BELOW
VAV-3-15	TRANE	VCEF10	10	1035	325	325	89	3.5	SCR	BAS	277/1	13 A	15 A	SEE BELOW
VAV-3-16	TRANE	VCEF08	08	480	150	150	87	1.5	SCR	BAS	277/1	6 A	15 A	SEE BELOW
VAV-3-17	TRANE	VCEF06	06	375	150	150	87	1.5	SCR	BAS	277/1	6 A	15 A	SEE BELOW
VAV-3-18	TRANE	VCEF05	05	275	100	100	102	1.5	SCR	BAS	277/1	6 A	15 A	SEE BELOW
VAV-3-19	TRANE	VCEF08	08	600	200	200	94	2.5	SCR	BAS	277/1	9 A	15 A	SEE BELOW
VAV-3-20	TRANE	VCEF06	06	600	200	200	94	2.5	SCR	BAS	277/1	9 A	15 A	SEE BELOW
VAV-3-22	TRANE	VCEF12	12	1550	525	525	91	6	SCR	BAS	480/3	7 A	15 A	SEE BELOW
VAV-3-23	TRANE	VCEF14	14	2500	900	900	90	10	SCR	BAS	480/3	12 A	15 A	SEE BELOW
VAV-3-24	TRANE	VCEF10	10	1200	400	400	90	4.5	SCR	BAS	277/1	16 A	20 A	SEE BELOW
VAV-3-25	TRANE	VCEF06	06	400	150	150	87	1.5	SCR	BAS	277/1	6 A	15 A	SEE BELOW
VAV-3-26	TRANE	VCEF06	06	400	400	400	90	4.5	SCR	BAS	277/1	16 A	20 A	SEE BELOW
VAV-3-27	TRANE	VCEF12	12	1700	525	525	91	6	SCR	BAS	480/3	7 A	15 A	SEE BELOW
VAV-3-28	TRANE	VCEF06	06	480	150	150	87	1.5	SCR	BAS	277/1	6 A	15 A	SEE BELOW
VAV-3-29	TRANE	VCEF14	14	3000	1000	1000	90	11	SCR	BAS	480/3	13 A	20 A	SEE BELOW
VAV-3-30	TRANE	VCEF10	10	1100	575	575	90	6.5	SCR	BAS	480/3	8 A	15 A	SEE BELOW
VAV-3-31	TRANE	VCEF10	10	1100	575	575	90	6.5	SCR	BAS	480/3	8 A	15 A	SEE BELOW
VAV-3-32	TRANE	VCEF10	10	1100	575	575	90	6.5	SCR	BAS	480/3	8 A	15 A	SEE BELOW
VAV-3-33	TRANE	VCEF10	10	1100	575	575	90	6.5	SCR	BAS	480/3	8 A	15 A	SEE BELOW
VAV-3-34	TRANE	VCEF10	10	1410	425	425	92	5	SCR	BAS	480/3	6 A	15 A	SEE BELOW
VAV-3-35	TRANE	VCEF08	08	600	200	200	94	2.5	SCR	BAS	277/1	9 A	15 A	SEE BELOW
VAV-3-36	TRANE	VCEF06	06	450	150	150	87	1.5	SCR	BAS	277/1	6 A	15 A	SEE BELOW
VAV-3-37	TRANE	VCEF10	10	1410	450	450	90	5	SCR	BAS	480/3	6 A	15 A	SEE BELOW
VAV-3-38	TRANE	VCEF08	08	825	250	250	93	3	SCR	BAS	277/1	10 A	15 A	SEE BELOW
VAV-3-39	TRANE	VCEF10	10	1410	450	450	90	5	SCR	BAS	480/3	6 A	15 A	SEE BELOW
VAV-3-40	TRANE	VCEF06	06	450	150	150	87	1.5	SCR	BAS	277/1	6 A	15 A	SEE BELOW
VAV-3-41	TRANE	VCEF10	10	1410	450	450	90	5	SCR	BAS	480/3	6 A	15 A	SEE BELOW
VAV-3-42	TRANE	VCEF10	10	1100	350	350	91	4	SCR	BAS	277/1	15 A	20 A	SEE BELOW
VAV-3-43	TRANE	VCEF08	08	600	200	200	94	2.5	SCR	BAS	277/1	9 A	15 A	SEE BELOW
VAV-3-44	TRANE	VCEF08	08	600	200	200	94	2.5	SCR	BAS	277/1	9 A	15 A	SEE BELOW
VAV-3-45	TRANE	VCEF08	08	500	150	150	87	1.5	SCR	BAS	277/1	6 A	15 A	SEE BELOW
VAV-3-46	TRANE	VCEF06	06	300	100	100	102	1.5	SCR	BAS	277/1	6 A	15 A	SEE BELOW
VAV-3-47	TRANE	VCEF08	08	675	200	200	94	2..5	SCR	BAS	277/1	9 A	15 A	SEE BELOW
VAV-3-48	TRANE	VCEF10	10	1100	575	575	90	6.5	SCR	BAS	480/3	8 A	15 A	SEE BELOW
VAV-3-49	TRANE	VCEF10	10	1200	400	400	90	4.5	SCR	BAS	277/1	16 A	20 A	SEE BELOW
VAV-3-50	TRANE	VCEF08	08	700	275	275	90	3	SCR	BAS	277/1	10 A	15 A	SEE BELOW
VAV-3-51	TRANE	VCEF06	06	300	100	100	102	1.5	SCR	BAS	277/1	6 A	15 A	SEE BELOW

GENERAL NOTES APPLICABLE TO ALL UNITS:
1. VAV BOX INLET STATIC PRESSURE IS TO BE 0.75".
2. PROVIDE ALL VAV BOXES WITH DDC CONTROLS, ACTUATOR, FACTORY MOUNTED DISCONNECT SWITCH, AIR FLOW SAFETY SWITCH, CONTROL POWER TRANSFORMER AND FUSES, AND SINGLE POINT ELECTRICAL CONNECTION WITH FUSES. LOW VOLTAGE WIRING BY MECHANICAL CONTRACTOR.
3. UNIT INSULATION SHALL BE MATTE FACED WITH 1" INSULATION. TYPICAL FOR ALL

STRAIGHT VAV BOX WITH ELECTRIC REHEAT SCHEDULE - RTU-2

MARK	MANUFACTURER	MODEL	VALVE SIZE (in.)	DESIGN COOLING CFM	MINIMUM COOLING CFM	HEATING CFM	HEAT LAT (°F)	HEAT (kW)	STAGES	CONTROL TYPE	UNIT VOLTS / PHASE	MCA	MOCP	NOTES
EAV-2-14	TRANE	VCEF14	14	1950	400	400	N/A	N/A	N/A	BAS	24V	0 A	0 A	VAV BOX TO TRACK AIRFLOW OF VAV-2-12
EAV-2-15	TRANE	VCEF14	14	2850	1250	1250	N/A	N/A	N/A	BAS	24V	0 A	0 A	VAV BOX TO TRACK AIRFLOW OF VAV-2-11A
EAV-2-16	TRANE	VCEF16	16	3300	1315	1315	N/A	N/A	N/A	BAS	24V	0 A	0 A	VAV BOX TO TRACK AIRFLOW OF VAV-2-5B
EAV-2-17	TRANE	VCEF14	14	2550	1250	1250	N/A	N/A	N/A	BAS	24V	0 A	0 A	VAV BOX TO TRACK AIRFLOW OF VAV-2-11B
EAV-2-18	TRANE	VCEF16	16	3300	1315	1315	N/A	N/A	N/A	BAS	24V	0 A	0 A	VAV BOX TO TRACK AIRFLOW SUM OF VAV-2-5A
EAV-2-19	TRANE	VCEF16	16	3300	1350	1350	N/A	N/A	N/A	BAS	24V	0 A	0 A	VAV BOX TO TRACK AIRFLOW SUM OF VAV-2-1,2,3,6,9,13
EAV-2-20	TRANE	VCEF06	06	425	300	300	N/A	N/A	N/A	BAS	24V	0 A	0 A	VAV BOX TO TRACK AIRFLOW OF VAV-2-8
VAV-2-1	TRANE	VCEF08	08	900	275	275	90	3	SCR	BAS	277/1	10 A	15 A	SEE BELOW
VAV-2-2	TRANE	VCEF08	08	800	150	150	86	1.5	SCR	BAS	277/1	7 A	15 A	SEE BELOW
VAV-2-3	TRANE	VCEF06	06	300	125	125	93	1.5	SCR	BAS	277/1	6 A	15 A	SEE BELOW
VAV-2-4	TRANE	VCEF05	05	100	50	50	115	1	SCR	BAS	277/1	4 A	15 A	SEE BELOW
VAV-2-5A	TRANE	VCEF16	16	3150	1165	1165	90	13	SCR	BAS	480/3	16 A	20 A	SEE BELOW
VAV-2-5B	TRANE	VCEF16	16	3150	1165	1165	90	13	SCR	BAS	480/3	16 A	20 A	SEE BELOW
VAV-2-6	TRANE	VCEF10	10	1075	900	900	90	11	SCR	BAS	480/3	13 A	20 A	SEE BELOW
VAV-2-7	TRANE	VCEF05	05	200	100	100	102	1.5	SCR	BAS	277/1	6 A	15 A	SEE BELOW
VAV-2-8	TRANE	VCEF05	05	225	100	100	102	1.5	SCR	BAS	277/1	6 A	15 A	SEE BELOW
VAV-2-9	TRANE	VCEF05	05	200	100	100	102	1.5	SCR	BAS	277/1	6 A	15 A	SEE BELOW
VAV-2-10	TRANE	VCEF06	06	250	100	100	102	1.5	SCR	BAS	277/1	6 A	15 A	SEE BELOW
VAV-2-11A	TRANE	VCEF14	14	2700	1100	1100	90	12	SCR	BAS	480/3	15 A	20 A	SEE BELOW
VAV-2-11B	TRANE	VCEF14	14	2400	1100	1100	90	12	SCR	BAS	480/3	15 A	20 A	SEE BELOW
VAV-2-12	TRANE	VCEF14	14	2250	700	700	91	8	SCR	BAS	480/3	10 A	15 A	SEE BELOW
VAV-2-13	TRANE	VCEF05	05	300	125	125	93	1.5	SCR	BAS	277/1	6 A	15 A	SEE BELOW

GENERAL NOTES APPLICABLE TO ALL UNITS:
1. VAV BOX INLET STATIC PRESSURE IS TO BE 0.75".
2. PROVIDE ALL VAV BOXES WITH DDC CONTROLS, ACTUATOR, FACTORY MOUNTED DISCONNECT SWITCH, AIR FLOW SAFETY SWITCH, CONTROL POWER TRANSFORMER AND FUSES, AND SINGLE POINT ELECTRICAL CONNECTION WITH FUSES. LOW VOLTAGE WIRING BY MECHANICAL CONTRACTOR.
3. UNIT INSULATION SHALL BE MATTE FACED WITH 1" INSULATION. TYPICAL FOR ALL

STRAIGHT VAV BOX WITH ELECTRIC REHEAT SCHEDULE - RTU-1

MARK	MANUFACTURER	MODEL	VALVE SIZE (in.)	DESIGN COOLING CFM	MINIMUM COOLING CFM	HEATING CFM	HEAT LAT (°F)	HEAT (kW)	STAGES	CONTROL TYPE	UNIT VOLTS / PHASE	MCA	MOCP	NOTES
VAV-1-1B	TRANE	VCEF14	14	2250	675	675	90	6.5	SCR	BAS	480/3	7 A	15 A	SEE BELOW
VAV-1-2	TRANE	VCEF08	08	600	600	600	91	6.5	SCR	BAS	480/3	7 A	15 A	SEE BELOW
VAV-1-3	TRANE	VCEF08	08	850	275	275	90	3	SCR	BAS	277/1	10 A	15 A	SEE BELOW
VAV-1-4	TRANE	VCEF08	08	800	250	250	93	3	SCR	BAS	277/1	10 A	15 A	SEE BELOW
VAV-1-5	TRANE	VCEF08	08	600	200	200	94	2.5	SCR	BAS	277/1	9 A	15 A	SEE BELOW
VAV-1-6	TRANE	VCEF08	08	750	250	250	93	3	SCR	BAS	277/1	10 A	15 A	SEE BELOW
VAV-1-8	TRANE	VCEF14	14	2760	1250	1250	90	14	SCR	BAS	480/3	17 A	25 A	SEE BELOW
VAV-1-9	TRANE	VCEF10	10	960	550	550	90	6	SCR	BAS	277/1	7 A	15 A	SEE BELOW
VAV-1-10	TRANE	VCEF10	10	950	550	550	90	6	SCR	BAS	277/1	7 A	15 A	SEE BELOW
VAV-1-11	TRANE	VCEF08	08	400	150	150	87	1.5	SCR	BAS	277/1	6 A	15 A	SEE BELOW
VAV-1-13	TRANE	VCEF14	14	2175	650	650	90	6.5	SCR	BAS	480/3	7 A	15 A	SEE BELOW
VAV-1-14B	TRANE	VCEF08	08	800	250	250	93	3	SCR	BAS	277/1	10 A	15 A	SEE BELOW
VAV-1-16	TRANE	VCEF10	10	1250	375	375	93	4.5	SCR	BAS	277/1	16 A	20 A	SEE BELOW
VAV-1-17	TRANE	VCEF10	10	825	250	250	93	3	SCR	BAS	277/1	10 A	15 A	SEE BELOW
VAV-1-18	TRANE	VCEF10	10	825	250	250	93	3	SCR	BAS	277/1	10 A	15 A	SEE BELOW
VAV-1-19	TRANE	VCEF12	12	1600	500	500	90	5.5	SCR	BAS	480/3	7 A	15 A	SEE BELOW
VAV-1-20	TRANE	VCEF12	12	1400	425	425	92	5	SCR	BAS	480/3	6 A	15 A	SEE BELOW
VAV-1-21	TRANE	VCEF06	06	700	225	225	90	2.5	SCR	BAS	277/1	9 A	15 A	SEE BELOW
VAV-1-22	TRANE	VCEF08	08	700	225	225	90	2.5	SCR	BAS	277/1	9 A	15 A	SEE BELOW
VAV-1-23	TRANE	VCEF08	08	400	150	150	87	1.5	SCR	BAS	277/1	6 A	15 A	SEE BELOW
VAV-1-24	TRANE	VCEF06	06	300	150	150	87	1.5	SCR	BAS	277/1	6 A	15 A	SEE BELOW
VAV-1-25	TRANE	VCEF06	06	350	175	175	91	2	SCR	BAS	277/1	7 A	15 A	SEE BELOW
VAV-1-26	TRANE	VCEF05	05	200	150	150	87	1.5	SCR	BAS	277/1	6 A	15 A	SEE BELOW
VAV-1-27	TRANE	VCEF10	10	1025	650	650	90	6.5	SCR	BAS	480/3	7 A	15 A	SEE BELOW
VAV-1-28	TRANE	VCEF06	06	300	150	150	87	1.5	SCR	BAS	277/1	6 A	15 A	SEE BELOW
VAV-1-29	TRANE	VCEF06	06	400	150	150	87	1.5	SCR	BAS	277/1	6 A	15 A	SEE BELOW
VAV-1-30	TRANE	VCEF06	06	400	150	150	87	1.5	SCR	BAS	277/1	6 A	15 A	SEE BELOW
VAV-1-31	TRANE	VCEF06	06	400	150	150	87	1.5	SCR	BAS	277/1	6 A	15 A	SEE BELOW
VAV-1-33	TRANE	VCEF10	10	1100	440	440	87	4.5	SCR	BAS	277/1	16 A	20 A	SEE BELOW
VAV-1-34	TRANE	VCEF06	06	350	150	150	87	1.5	SCR	BAS	277/1	6 A	15 A	SEE BELOW
VAV-1-35	TRANE	VCEF08	08	530	150	150	87	1.5	SCR	BAS	277/1	6 A	15 A	SEE BELOW
VAV-1-36	TRANE	VCEF06	06	300	150	150	87	1.5	SCR	BAS	277/1	6 A	15 A	SEE BELOW
VAV-1-37	TRANE	VCEF08	08	530	150	150	87	1.5	SCR	BAS	277/1	6 A	15 A	SEE BELOW
VAV-1-38	TRANE	VCEF06	06	300	150	150	87	1.5	SCR	BAS	277/1	6 A	15 A	SEE BELOW
VAV-1-39	TRANE	VCEF08	08	530	150	150	87	1.5	SCR	BAS	277/1	6 A	15 A	SEE BELOW
VAV-1-40	TRANE	VCEF08	08	530	150	150	87	1.5	SCR	BAS	277/1	6 A	15 A	SEE BELOW
VAV-1-41	TRANE	VCEF06	06	300	150	150	87	1.5	SCR	BAS	277/1	6 A	15 A	SEE BELOW
VAV-1-42	TRANE	VCEF08	08	530	150	150	87	1.5	SCR	BAS	277/1	6 A	15 A	SEE BELOW
VAV-1-43	TRANE	VCEF06	06	300	150	150	87	1.5	SCR	BAS	277/1	6 A	15 A	SEE BELOW
VAV-1-44	TRANE	VCEF06	06	300	150	150	87	1.5	SCR	BAS	277/1	6 A	15 A	SEE BELOW
VAV-1-45	TRANE	VCEF06	06	300	150	150	87	1.5	SCR	BAS	277/1	6 A	15 A	SEE BELOW
VAV-1-46A	TRANE	VCEF14	14	3000	900	900	90	10	SCR	BAS	480/3	12 A	12 A	SEE BELOW
VAV-1-46C	TRANE	VCEF08	08	800	250	250	93	3	SCR	BAS	277/1	10 A	15 A	SEE BELOW
VAV-1-46D	TRANE	VCEF14	14	2000	600	600	91	6.5	SCR	BAS	480/3	7 A	15 A	SEE BELOW

GENERAL NOTES APPLICABLE TO ALL UNITS:
1. VAV BOX INLET STATIC PRESSURE IS TO BE 0.75".
2. PROVIDE ALL VAV BOXES WITH DDC CONTROLS, ACTUATOR, FACTORY MOUNTED DISCONNECT SWITCH, AIR FLOW SAFETY SWITCH, CONTROL POWER TRANSFORMER AND FUSES, AND SINGLE POINT ELECTRICAL CONNECTION WITH FUSES. LOW VOLTAGE WIRING BY MECHANICAL CONTRACTOR.
3. UNIT INSULATION SHALL BE MATTE FACED WITH 1" INSULATION. TYPICAL FOR ALL

James R. Childers Architect, Inc.
45 South 4th Street
Fort Smith, AR 72901
479-783-2480
www.childersarchitect.com

PROFESSIONAL SEAL:

PRELIMINARY. NOT FOR CONSTRUCTION, RECORDING PURPOSES, OR IMPLEMENTATION.

CONSULTANT LOGO:

HP ENGINEERING

PROJECT NO. 18163R

95 % COMPLETE

HP ENGINEERING INC.
5214 W. VILLAGE PARKWAY
SUITE 120
ROGERS, AR 72758
(479) 899-6370
www.hpengineeringinc.com

CLIENT:

COLLEGE OF Osteopathic Medicine AT THE CHEROKEE NATION

TAHLEQUAH, OKLAHOMA

KEY PLAN:

02 01

PROJECT PHASE:

95% CONSTRUCTION DOCUMENTS

REVISIONS

#	DATE	DESCRIPTION

DATE: 07-26-19

JOB NUMBER: 17-13

SHEET NUMBER:

M1.01

MECHANICAL SCHEDULES

FAN POWERED VAV BOX WITH ELECTRIC REHEAT SCHEDULE - RTU-1

TAG	MANUFACTURER	MODEL	VALVE SIZE (in.)	FAN SIZE	DESIGN COOLING CFM	MINIMUM COOLING CFM	FAN AIRFLOW (CFM)	PRIMARY AIR HEATING CFM	TOTAL HEATING CFM	HEATING COIL ENTERING AIR TEMP (°F)	HEATING COIL LEAVING AIR TEMP (°F)	COIL HEAT (kW)	COIL HEAT STAGES	DOWN STREAM SP (in. w.c.)	UNIT VOLTS / PHASE	BLOWER HP	MCA	MOCP	NOTES
VAV-1-1A	TRANE	VPEF	14	07	3000	600	2400	600	3000	65	90	24	SCR	0.4	480/3	1	42 A	45 A	SEE BELOW
VAV-1-15A	TRANE	VPEF	14	06	2825	1250	1575	1250	2825	62	84	20	SCR	0.4	480/3	1/2	28 A	35 A	SEE BELOW
VAV-1-15B	TRANE	VPEF	16	07	3250	1250	2250	1250	3500	62	84	30	SCR	0.4	480/3	1	43 A	45 A	SEE BELOW
VAV-1-14A	TRANE	VPEF	14	07	3000	500	2500	500	3000	65	90	24	SCR	0.4	480/3	1	42 A	45 A	SEE BELOW
VAV-1-46B	TRANE	VPEF	16	07	3750	1500	2250	1500	3750	68	90	36	SCR	0.4	480/3	1	44 A	45 A	SEE BELOW

GENERAL NOTES APPLICABLE TO ALL UNITS:
1. VAV BOX INLET STATIC PRESSURE IS TO BE 0.75".
2. PROVIDE ALL VAV BOXES WITH DDC CONTROLS, ACTUATOR, FACTORY MOUNTED DISCONNECT SWITCH, AIR FLOW SAFETY SWITCH, CONTROL POWER TRANSFORMER AND FUSES, AND SINGLE POINT ELECTRICAL CONNECTION WITH FUSES. LOW VOLTAGE WIRING BY MECHANICAL CONTRACTOR.
3. UNIT INSULATION SHALL BE MATTE FACED WITH 1" INSULATION. TYPICAL FOR ALL

FAN POWERED VAV BOX WITH ELECTRIC REHEAT SCHEDULE - RTU-3

TAG	MANUFACTURER	MODEL	VALVE SIZE (in.)	FAN SIZE	DESIGN COOLING CFM	MINIMUM COOLING CFM	FAN AIRFLOW (CFM)	PRIMARY AIR HEATING CFM	TOTAL HEATING CFM	HEATING COIL ENTERING AIR TEMP (°F)	HEATING COIL LEAVING AIR TEMP (°F)	COIL HEAT (kW)	COIL HEAT STAGES	DOWN STREAM SP (in. w.c.)	UNIT VOLTS / PHASE	BLOWER HP	MCA	MOCP	NOTES
VAV-3-22B	TRANE	VPEF	14	06	2400	1100	1300	1100	2400	62	84	17	SCR	0.4	480/3	1/2	24 A	30 A	SEE BELOW
VAV-3-22A	TRANE	VPEF	14	06	2400	1100	1300	1100	2400	62	84	17	SCR	0.4	480/3	1/2	24 A	30 A	SEE BELOW

GENERAL NOTES APPLICABLE TO ALL UNITS:
1. VAV BOX INLET STATIC PRESSURE IS TO BE 0.75".
2. PROVIDE ALL VAV BOXES WITH DDC CONTROLS, ACTUATOR, FACTORY MOUNTED DISCONNECT SWITCH, AIR FLOW SAFETY SWITCH, CONTROL POWER TRANSFORMER AND FUSES, AND SINGLE POINT ELECTRICAL CONNECTION WITH FUSES. LOW VOLTAGE WIRING BY MECHANICAL CONTRACTOR.
3. UNIT INSULATION SHALL BE MATTE FACED WITH 1" INSULATION. TYPICAL FOR ALL

FAN POWERED VAV BOX WITH ELECTRIC REHEAT SCHEDULE - RTU-4

TAG	MANUFACTURER	MODEL	VALVE SIZE (in.)	FAN SIZE	DESIGN COOLING CFM	MINIMUM COOLING CFM	FAN AIRFLOW (CFM)	PRIMARY AIR HEATING CFM	TOTAL HEATING CFM	HEATING COIL ENTERING AIR TEMP (°F)	HEATING COIL LEAVING AIR TEMP (°F)	COIL HEAT (kW)	COIL HEAT STAGES	DOWN STREAM SP (in. w.c.)	UNIT VOLTS / PHASE	BLOWER HP	MCA	MOCP	NOTES
VAV-4-22A	TRANE	VPEF	14	06	2800	900	1900	900	2800	64	82	15	SCR	0.4	480/3	1/2	22 A	30 A	SEE BELOW
VAV-4-22B	TRANE	VPEF	14	06	2800	900	1900	900	2800	64	82	15	SCR	0.4	480/3	1/2	22 A	30 A	SEE BELOW
VAV-4-41A	TRANE	VPEF	14	06	2800	900	1900	900	2800	64	82	15	SCR	0.4	480/3	1/2	22 A	30 A	SEE BELOW
VAV-4-41B	TRANE	VPEF	14	06	2800	900	1900	900	2800	64	82	15	SCR	0.4	480/3	1/2	22 A	30 A	SEE BELOW

GENERAL NOTES APPLICABLE TO ALL UNITS:
1. VAV BOX INLET STATIC PRESSURE IS TO BE 0.75".
2. PROVIDE ALL VAV BOXES WITH DDC CONTROLS, ACTUATOR, FACTORY MOUNTED DISCONNECT SWITCH, AIR FLOW SAFETY SWITCH, CONTROL POWER TRANSFORMER AND FUSES, AND SINGLE POINT ELECTRICAL CONNECTION WITH FUSES. LOW VOLTAGE WIRING BY MECHANICAL CONTRACTOR.
3. UNIT INSULATION SHALL BE MATTE FACED WITH 1" INSULATION. TYPICAL FOR ALL

MULTI-ZONE VAV ROOF TOP UNIT WITH GAS FIRED HEAT SCHEDULE

						COOLING							HEATING					SUPPLY FANS				RELIEF FAN			ELECTRICAL							
MARK	DESCRIPTION	MFR	MODEL	NOM. TONS	EER / IEER	AIRFLOW COIL	O/A CFM	AMBIENT (°F)	EAT DB / WB	LAT COIL DB / WB	LAT UNIT DB / WB	COMPRESSOR STAGES	AMBIENT (°F)	AIRFLOW	EAT / LAT	HEAT IN / OUT (MBH)	STAGES	AIRFLOW	SUPPLY DUCT ESP	RETURN DUCT ESP	FAN HP	AIRFLOW	ESP	HP	VOLTS	PH	MCA	MOCP	WEIGHT	ECONOMIZER TYPE	CONTROL TYPE	ACCESSORIES
RTU-1	MULTI-ZONE VAV	TRANE	SFHKD124	115	10.3 / 14.4	37250	7050 CFM	100	74 / 62.4	51.81 / 50.88	56.5 / 52.94	MODULATING	9	20000	52.9 / 72.69	1000 / 800	MODULATING	40000 CFM	2.86"	2.3"	(2) 40	32150	2.3"	40	460 V	3	345	350	17000	COMPARATIVE ENTHALPY	BAS	1-15
RTU-3	MULTI-ZONE VAV	TRANE	SFHKD124	115	10.3 / 14.4	38600	5250 CFM	100	72.2 / 60.7	50.4 / 49.54	54.7 / 51.42	MODULATING	9	20000	52.9 / 72	1000 / 800	MODULATING	40000 CFM	3.871	1.289	(2) 40	40000	1.289	40	460 V	3	345	350	17000	COMPARATIVE ENTHALPY	BAS	1-15
RTU-4	MULTI-ZONE VAV	TRANE	SFHKC904	90	10.5 / 14.6	29660	4700 CFM	100	73.0 / 61.3	50.93 / 49.6	55.18 / 51.49	MODULATING	9	20000	52.9 / 77.76	1000 / 800	MODULATING	31300 CFM	4"	2.322"	(2) 30	31300	2.322"	30	460 V	3	285.3	300	16000	COMPARATIVE ENTHALPY	BAS	1-15

GENERAL NOTES APPLICABLE TO ALL UNITS:
1. PROVIDE VIBRATION ISOLATION ROOF CURB TO MATCH ROOF TYPE AND SLOPE, SEISMIC, AND WIND CLASSIFICATION.
2. PROVIDE THERMAL EXPANSION VALVE.
3. PROVIDE HAIL GUARD.
4. PROVIDE THROUGH THE BASE ELECTRICAL.
5. PROVIDE UNIT MOUNTED CONVENIENCE OUTLET.
6. PROVIDE FACTORY MOUNTED DISCONNECT SWITCH.
7. VERTICAL DISCHARGE
8. DIGITAL SCROLL COMPRESSORS - PROVIDE COMPRESSOR SOUND BLANKETS.
9. DIRECT DRIVE SUPPLY AND EXHAUST FAN WITH GROUDING RINGS AND VFD.
10. PROVIDE WITH BACNET INTERFACE
11. 0-100% ECONOMIZER
12. OUTSIDE AIRFLOW MONITOR
13. PROVIDE WITH UV LIGHTS
14. STAINLESS STEEL DRAIN PAIN
15. DOUBLE WALL CONSTRUCTION

ACCEPTABLE MANUFACTURERS AND REPRESENTATION
A.DAIKEN NORTH AMERICA |
B.YORK-A JOHNSON CONTROL COMPANY |
C.TRANE |

ANY SUBSTITUTIONS OR VARIATIONS FROM SCHEDULED EQUIPMENT MUST BE SUBMITTED TO THE ENGINEER FOR APPROVAL A MINIMUM OF TWO WEEKS PRIOR TO BID DATE.

100% OUTSIDE AIR MULTI-ZONE VAV ROOF TOP UNIT WITH ERV & GAS FIRED HEAT SCHEDULE

						ERV - SUMMER						COOLING COIL					ERV - WINTER						HEATING				SUPPLY FANS				EXHAUST FAN			ELECTRICAL						
						OUTSIDE AIR		EXHAUST AIR		VENTILATION SUPPLY AIR							OUTSIDE AIR		EXHAUST AIR		VENTILATION SUPPLY AIR																			
MARK	DESCRIPTION	MFR	MODEL	NOM. TONS	EER / MRE	AMBIENT DB / WB	AIRFLOW	EAT DB / WB	AIRFLOW	AIRFLOW	LAT DB / WB	AIRFLOW COIL	EAT DB / WB	LAT COIL DB / WB MAX 51F	LAT UNIT REHEAT DB / WB	COMPRESSOR STAGES	AMBIENT DB / WB	AIRFLOW	EAT DB / WB	AIRFLOW	AIRFLOW	LAT DB / WB	AIRFLOW	EAT / LAT	HEAT IN / OUT (MBH)	STAGES	AIRFLOW	SUPPLY DUCT ESP	RETURN DUCT ESP	FAN HP	AIRFLOW	ESP	HP	VOLTS	PH	MCA	MOCP	WEIGHT	CONTROL TYPE	ACCESSORIES
RTU-2	MULTI-ZONE VAV W/ ERV	TRANE	OANG060C3	60	15.7 / 4.64	100 / 76	15000 CFM	66 / 56.3	15000	15000	80.9 / 66.2	15000 CFM	80.9/ 66.2	50.9 / 50.9	66 / 57.2	MODULATING	9 / 7	15000	66 / 56.3	15000	15000	38.9 / 36.7	15000 CFM	38.9 / 98.9	1200 / 972	MODULATING	15000 CFM	2.5"	1"	(2) 15	15000	2.25"	(2) 10	460 V	3	172	200	12000	BAS	1-16

GENERAL NOTES APPLICABLE TO ALL UNITS:
1. PROVIDE VIBRATION ISOLATION ROOF CURB TO MATCH ROOF TYPE AND SLOPE, SEISMIC, AND WIND CLASSIFICATION.
2. PROVIDE THERMAL EXPANSION VALVE.
3. PROVIDE HAIL GUARD.
4. PROVIDE THROUGH THE BASE ELECTRICAL.
5. PROVIDE UNIT MOUNTED CONVENIENCE OUTLET.
6. PROVIDE FACTORY MOUNTED DISCONNECT SWITCH.
7. VERTICAL DISCHARGE
8. DIGITAL SCROLL COMPRESSORS - PROVIDE COMPRESSOR SOUND BLANKETS.
9. DIRECT DRIVE SUPPLY AND EXHAUST FAN WITH GROUDING RINGS AND VFD.
10. PROVIDE WITH BACNET INTERFACE
11. ENERGY RECOVERY WHEEL WITH FROST CONTROL AND BYPASS - PURGE OPTION
12. PROVIDE WITH MODULATING HOT GAS REHEAT.
13. OUTSIDE AIRFLOW MONITOR
14. PROVIDE WITH UV LIGHTS
15. STAINLESS STEEL DRAIN PAIN
16. DOUBLE WALL CONSTRUCTION

ACCEPTABLE MANUFACTURERS AND REPRESENTATION
A.DAIKEN NORTH AMERICA |
B.YORK-A JOHNSON CONTROL COMPANY |
C.TRANE |

ANY SUBSTITUTIONS OR VARIATIONS FROM SCHEDULED EQUIPMENT MUST BE SUBMITTED TO THE ENGINEER FOR APPROVAL A MINIMUM OF TWO WEEKS PRIOR TO BID DATE.

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02 01

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REVISIONS

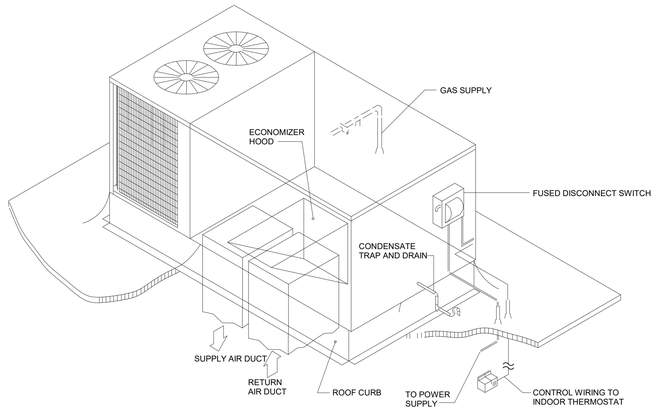
#	DATE	DESCRIPTION

DATE: 07-26-19
JOB NUMBER: 17-13
SHEET NUMBER: M1.02

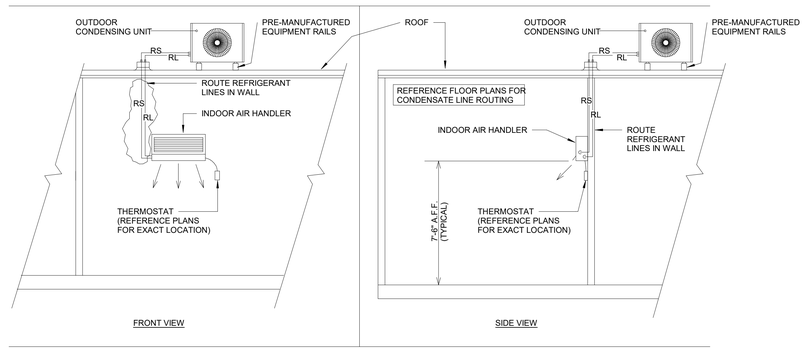
MECHANICAL SCHEDULES

MECHANICAL LEGEND

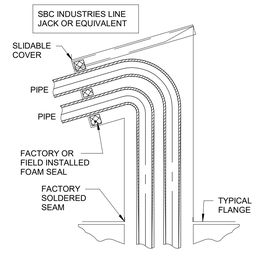
T	THERMOSTAT (MOUNTED AT 48" A.F.F)		EXHAUST GRILLE (CEILING MOUNTED)
S	TEMPERATURE SENSOR (MOUNTED AT 48" A.F.F)		SUPPLY DIFFUSER (CEILING MOUNTED)
F	FORMALDEHYDE SENSOR (HCHO) (MOUNTED AT 48" A.F.F)		RETURN GRILLE (CEILING MOUNTED)
OCC	OCCUPANCY SENSOR PROVIDED BY DIV 26	CD-2 225 CFM	DIFFUSER CALLOUT TAG
D	DUCT MOUNTED SMOKE DETECTOR		MANUAL BALANCE DAMPER
H	HUMIDITY SENSOR (MOUNTED AT 48"AFF)		VERTICAL DUCT TAKE-OFF WITH BALANCE DAMPER
AHU-1	EQUIPMENT OR DEVICE TAG		SIDEWALL AIR DEVICE
CFM	STANDARD CUBIC FEET PER MINUTE	M	MOTORIZED 3-POSITION ACTUATOR EQUAL TO BELIMO MODEL 'LF24-SR-E'
FD	FIRE DAMPER	24x12	RECTANGULAR DUCT (FIRST DIMENSION, SIDE SHOWN)
FSD	COMBINATION FIRE/SMOKE DAMPER	16"	ROUND DUCT
B.O.D.	BOTTOM OF DUCT		INTERNALLY LINED DUCT
B.O.B.	BOTTOM OF BEAM		AIR FLOW ARROW
A.F.F.	ABOVE FINISHED FLOOR	(ROUND) (RECTANGULAR)	DUCT CONTINUATION SYMBOLS
R	REFRIGERANT PIPE	C	CONDENSATE PIPE
OCC	OCCUPANCY SENSOR PROVIDED BY DIV 26		



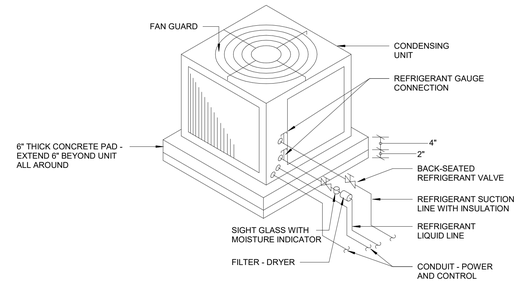
13 ROOF TOP PACKAGED HVAC UNIT DETAIL
12" = 1'-0"



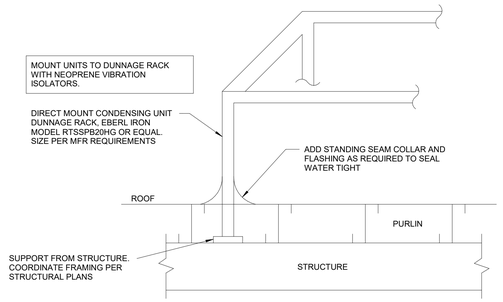
12 DUCTLESS SPLIT SYSTEM WITH ROOF-MOUNTED CONDENSING UNIT
SCALE: N.T.S.



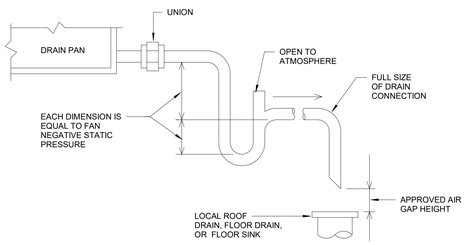
11 ROOF REFRIGERANT PIPING PENETRATION - GOOSENECK
N.T.S.



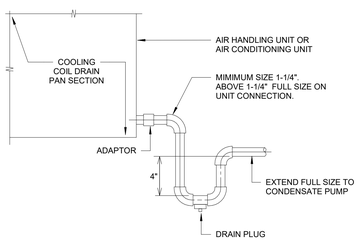
10 AIR-COOLED CONDENSING UNIT
SCALE: N.T.S.



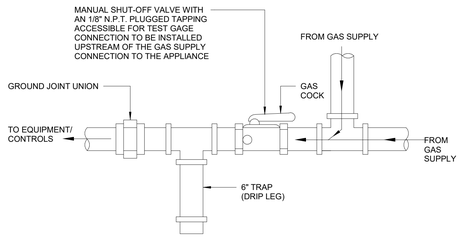
9 ROOF TOP CONDENSOR MOUNTING
SCALE: N.T.S.



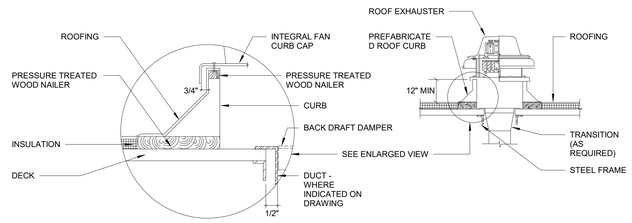
8 CONDENSATE DRAIN DETAIL
SCALE: N.T.S.



7 CONDENSATE DRAIN TO CONDENSATE PUMP DETAIL
SCALE: N.T.S.



6 GAS CONNECTION TO EQUIPMENT
SCALE: N.T.S.

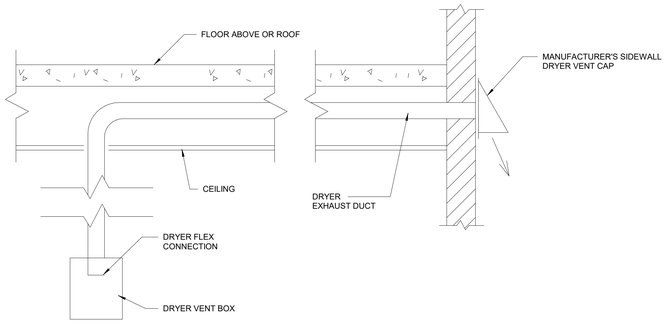


NOTES:

1. WHERE NO DUCT IS INDICATED, BACKDRAFT DAMPER SHALL BE FULL SIZE OF OPENING IN ROOF DECK.

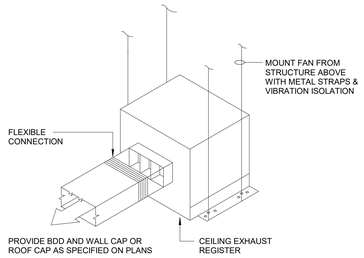
2. ROOF MOUNTED EXHAUST FANS SHALL NOT BE MOUNTED ON A SLOPE OF GREATER THAN 6:12.

5 ROOF MOUNTED EXHAUST FAN DETAIL
SCALE: N.T.S.

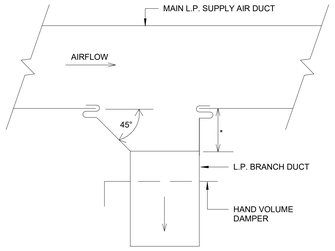


NOTE: VENT ROUTING TO BE INSTALLED PER MANUFACTURER'S RECOMMEDATIONS

4 DRYER EXHAUST VENT THRU SIDEWALL DETAIL
SCALE: N.T.S.

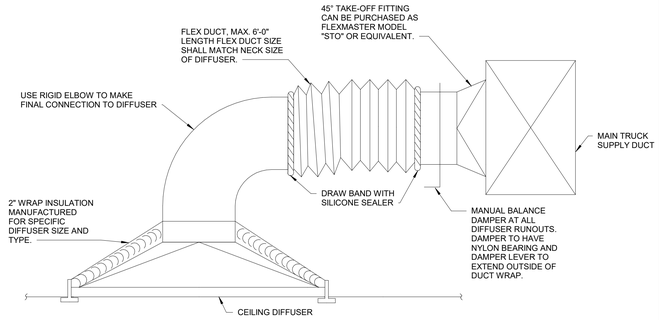


3 CEILING EXHAUST FAN DETAIL
SCALE: N.T.S.



* - EQUALS WIDTH OF BRANCH DUCT UP TO 12". 12" FOR ALL BRANCH DUCTS LARGER THAN 12".

2 TYPICAL SUPPLY AIR BRANCH DUCT TAKE-OFF
SCALE: N.T.S.



1 TYPICAL DIFFUSER CONNECTION WITH INSULATION
SCALE: N.T.S.

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KEY PLAN:

02 01

PROJECT PHASE:

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REVISIONS:

#	DATE	DESCRIPTION

DATE:	JOB NUMBER:
07-26-19	17-13

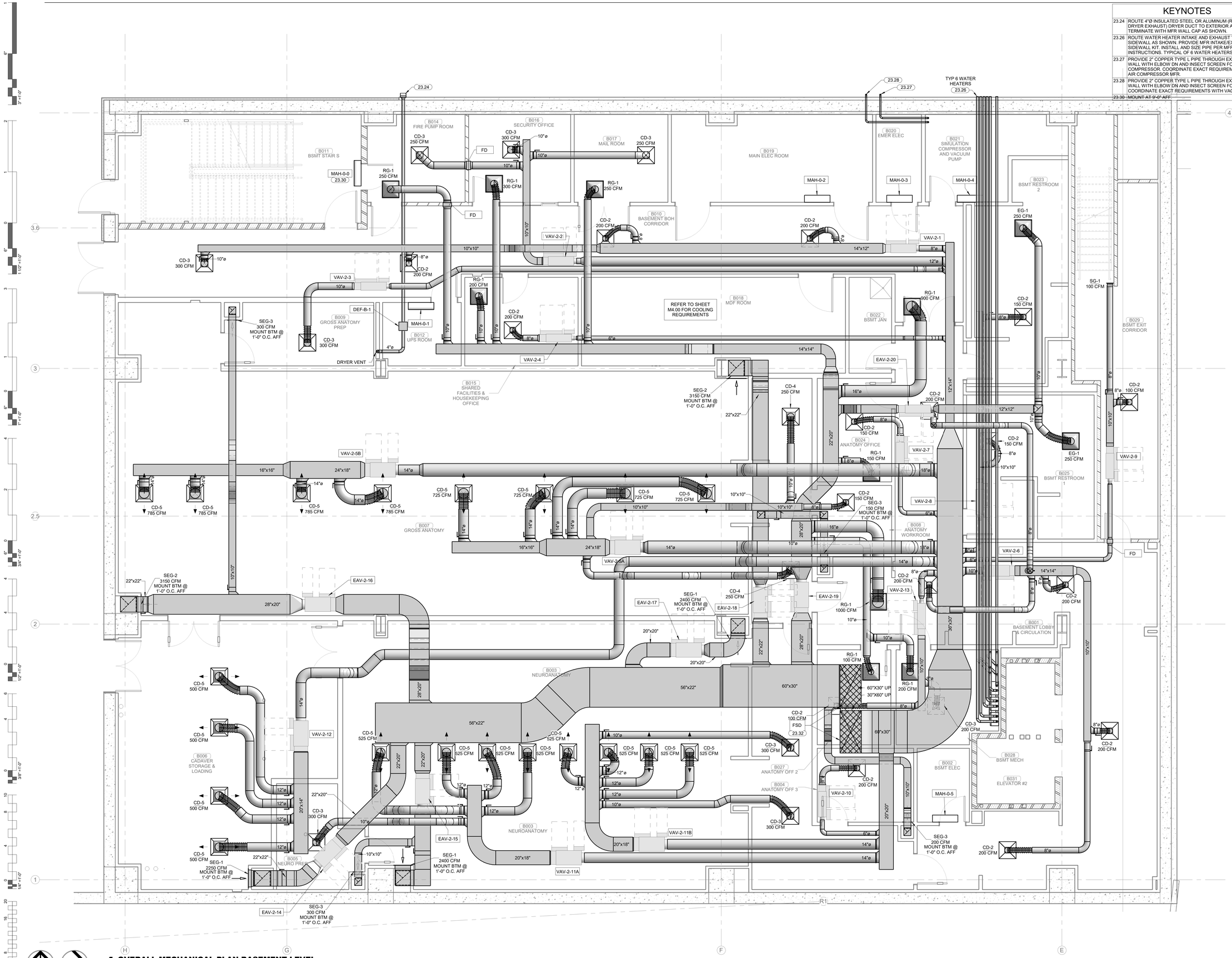
SHEET NUMBER:

M1.03

MECHANICAL LEGEND AND DETAILS

KEYNOTES

23.24	ROUTE 4"Ø INSULATED STEEL OR ALUMINUM (RATED FOR DRYER EXHAUST) DRYER DUCT TO EXTERIOR AND TERMINATE WITH MFR WALL CAP AS SHOWN.
23.26	ROUTE WATER HEATER INTAKE AND EXHAUST THROUGH SIDEWALL AS SHOWN. PROVIDE MFR INTAKE/EXHAUST SIDEWALL KIT. INSTALL AND SIZE PIPE PER MFR INSTRUCTIONS. TYPICAL OF 6 WATER HEATERS.
23.27	PROVIDE 2" COPPER TYPE L PIPE THROUGH EXTERIOR WALL WITH ELBOW DN AND INSECT SCREEN FOR AIR COMPRESSOR. COORDINATE EXACT REQUIREMENTS WITH AIR COMPRESSOR MFR.
23.28	PROVIDE 2" COPPER TYPE L PIPE THROUGH EXTERIOR WALL WITH ELBOW DN AND INSECT SCREEN FOR VACUUM. COORDINATE EXACT REQUIREMENTS WITH VACUUM MFR.
23.30	MOUNT AT 9'-0" AFF



1 OVERALL MECHANICAL PLAN BASEMENT LEVEL

1/4" = 1'-0"

PLAN NORTH

TRUE NORTH

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REVISIONS

#	DATE	DESCRIPTION

DATE:	JOB NUMBER:
07-26-19	17-13

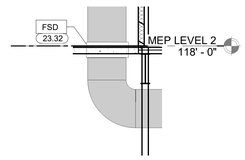
SHEET NUMBER:

M2.00

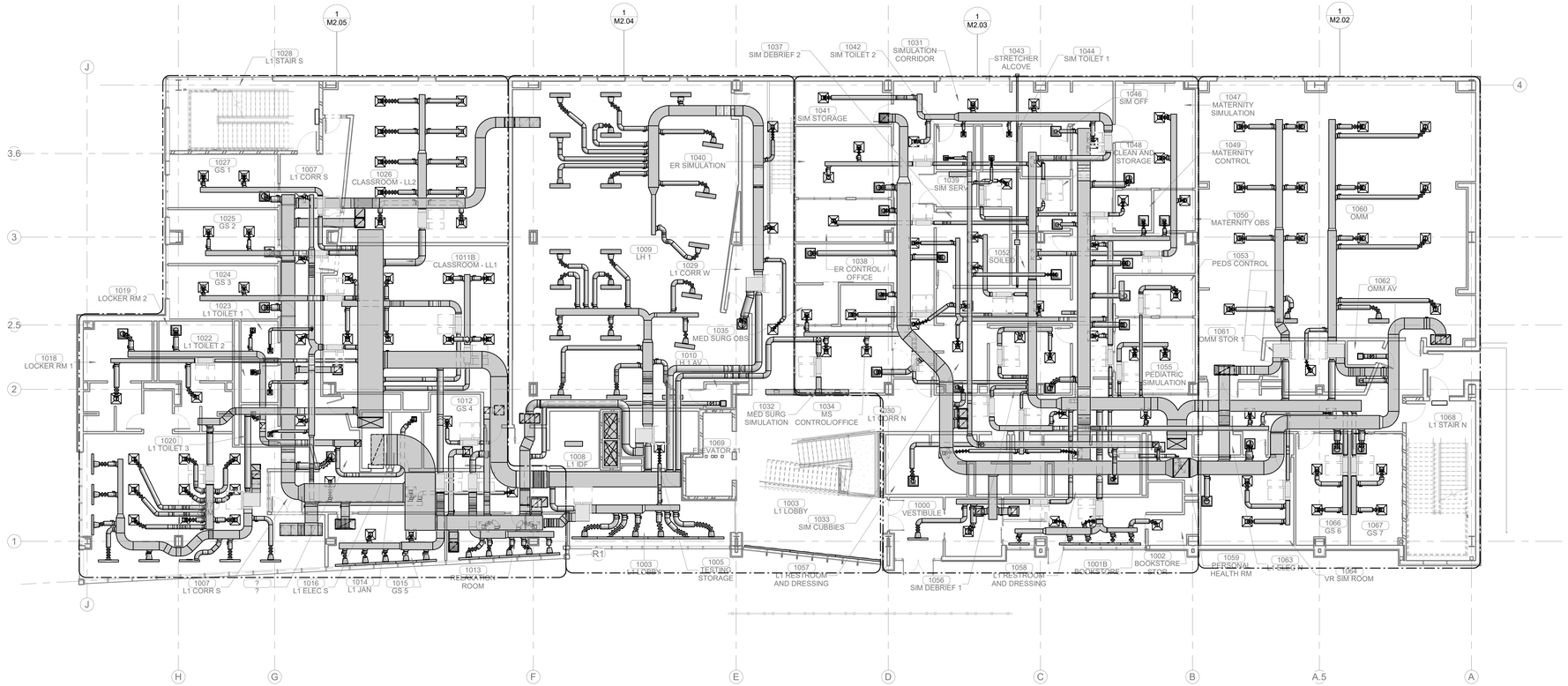
OVERALL MECHANICAL PLAN BASEMENT LEVEL SECTOR 02

KEYNOTES

23.32 PROVIDE MULTI-SECTION FIRE AND SMOKE DAMPER'S, RUSKIN FSD-60 OR EQUIVALENT, WHERE INDICATED AT FLOOR PENETRATIONS AT BOTTOM OF CHASE TO MAINTAIN 1-2 HOUR RATING AT FLOOR SLAB. MAINTAIN MANUFACTURER'S RECOMMENDED CLEARANCE ON BOTH SIDES OF DUCTS TO ACCOMMODATE FSD ACTUATORS. ACTUATORS SHALL BE TANDEM-MOUNTED (ON SAME SIDE OF DUCT) ONLY WHERE SPACE CONSTRAINTS DO NOT ALLOW ACTUATORS TO BE MOUNTED ON BOTH SIDES OF DUCT. REFER TO DETAIL 2-M2.01.



2 TYPICAL FLOOR SLAB FIRE/SMOKE DAMPER DUCT PENETRATION
1/4" = 1'-0"



PLAN NORTH

TRUE NORTH

1 OVERALL MECHANICAL PLAN LEVEL 01
3/32" = 1'-0"

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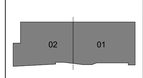

PROJECT PHASE:

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REVISIONS

#	DATE	DESCRIPTION

DATE:	JOB NUMBER:
07-26-19	17-13

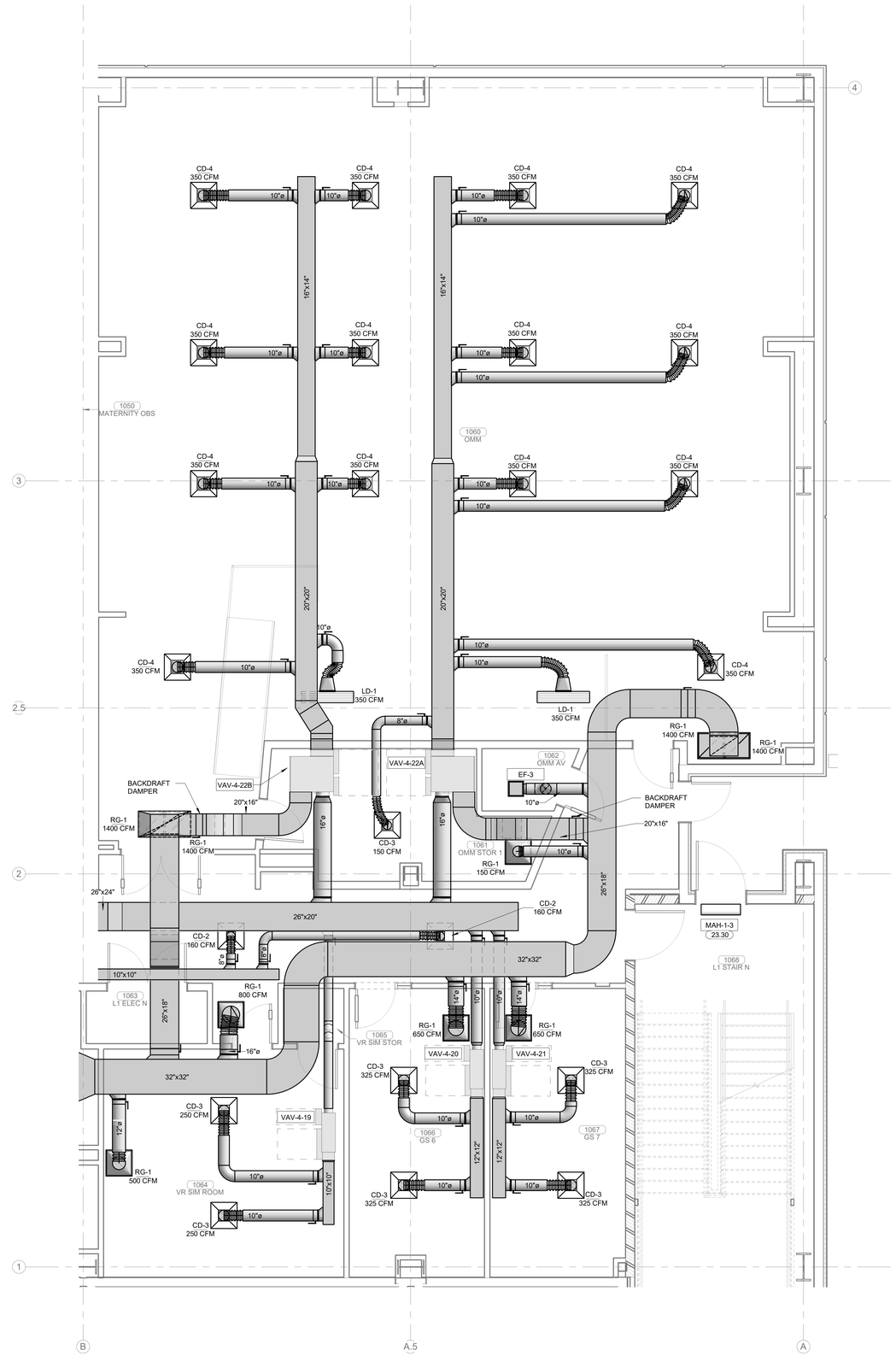
SHEET NUMBER:

M2.01

OVERALL MECHANICAL PLAN LEVEL 01

KEYNOTES

23.30 MOUNT AT 9'-0" AFF.



PLAN NORTH

TRUE NORTH

1 ENLARGED MECHANICAL PLAN LEVEL 01

1/4" = 1'-0"

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#	DATE	DESCRIPTION

DATE:	JOB NUMBER:
07-26-19	17-13

SHEET NUMBER:

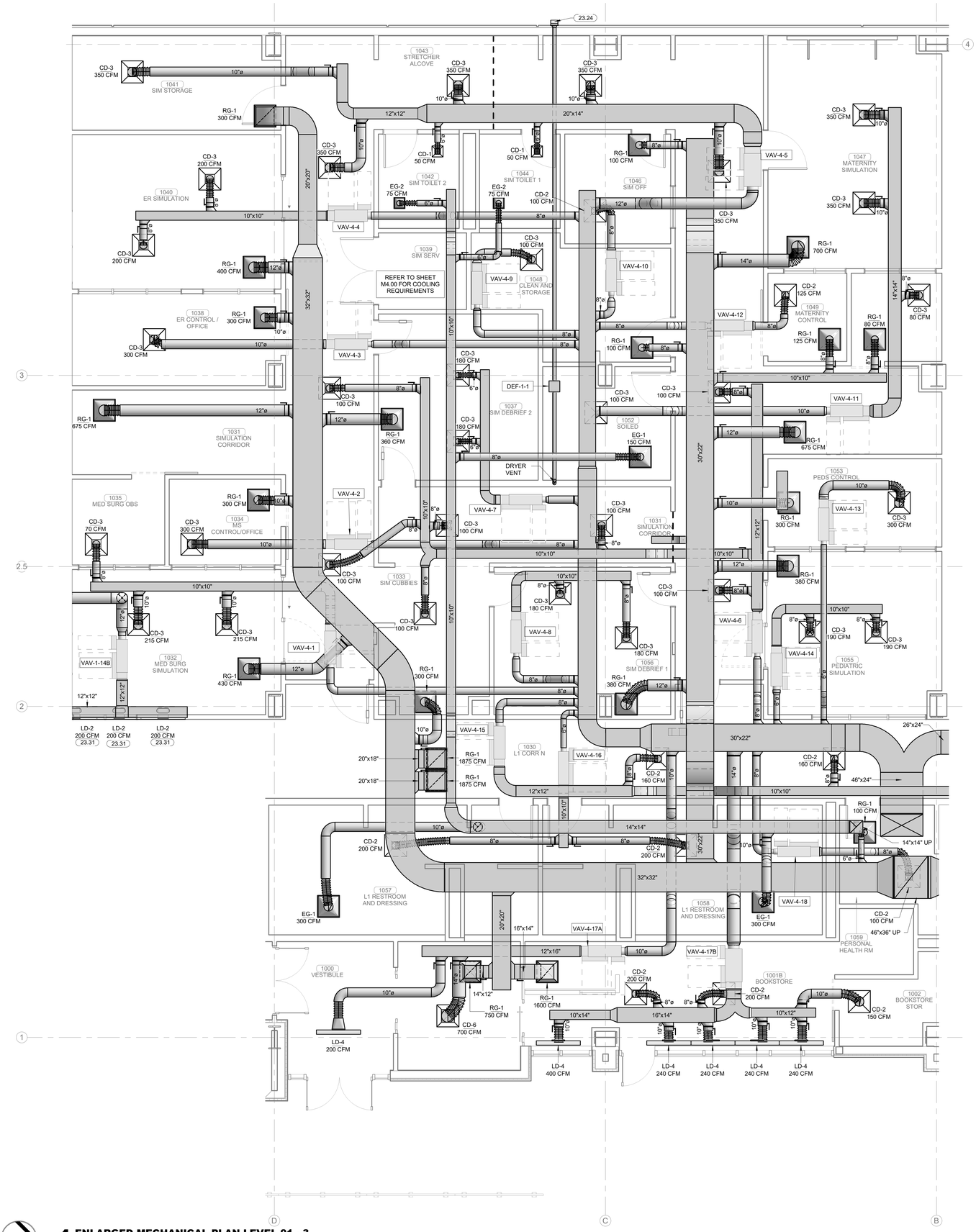
M2.02

ENLARGED MECHANICAL PLAN LEVEL 01 SECTOR 01

KEYNOTES

23.24 ROUTE 4"Ø INSULATED STEEL OR ALUMINUM (RATED FOR DRYER EXHAUST) DRYER DUCT TO EXTERIOR AND TERMINATE WITH MFR WALL CAP AS SHOWN.

23.31 MOUNT AT 12'-0" AFF.



PLAN NORTH

TRUE NORTH

1 ENLARGED MECHANICAL PLAN LEVEL 01 - 3

1/4" = 1'-0"

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REVISIONS

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DATE: 07-26-19

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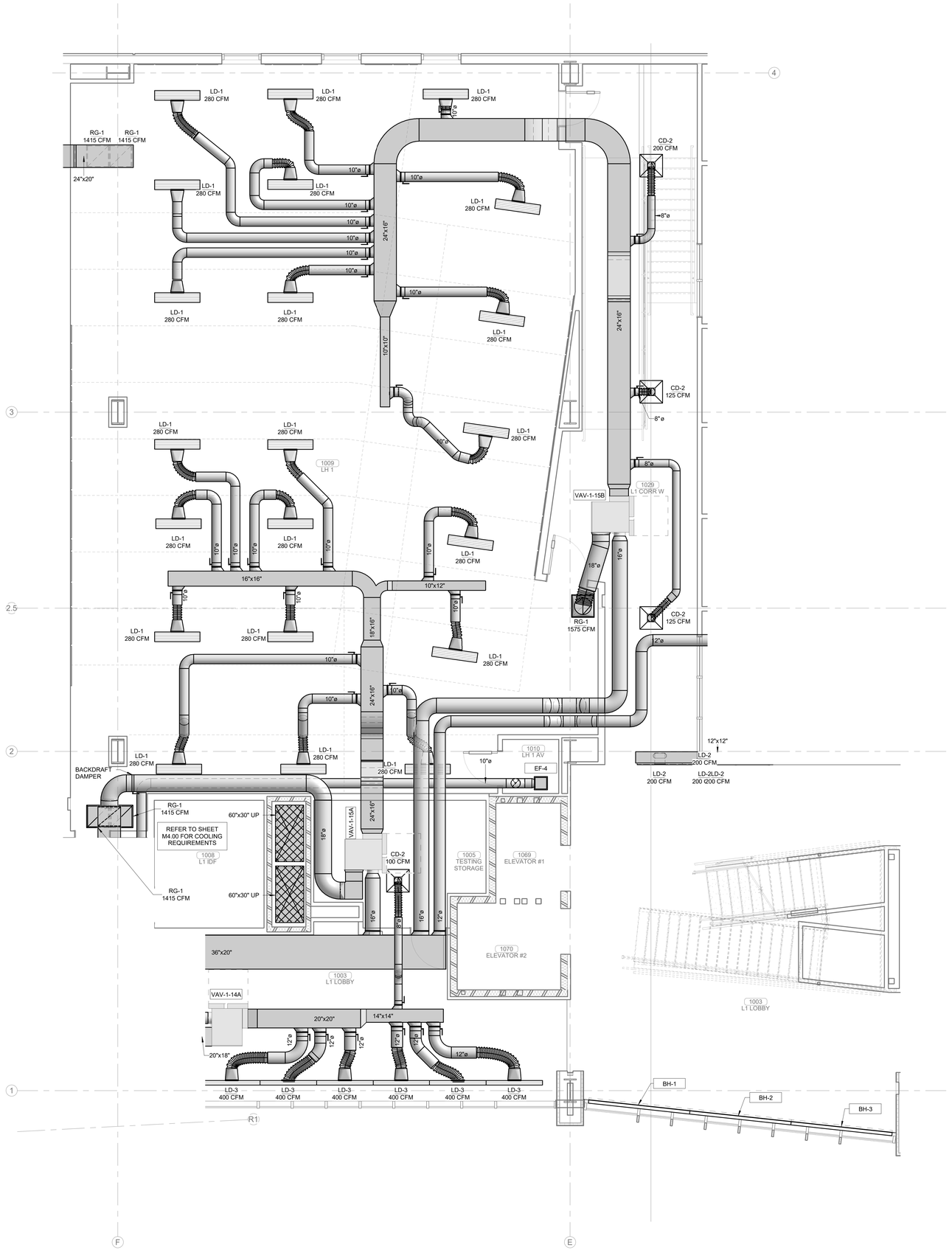
SHEET NUMBER: M2.03

ENLARGED MECHANICAL PLAN LEVEL 01 SECTOR 01



PLAN NORTH

TRUE NORTH

1 ENLARGED MECHANICAL PLAN LEVEL 01

1/4" = 1'-0"

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REVISIONS

#	DATE	DESCRIPTION

DATE:	JOB NUMBER:
07-26-19	17-13

SHEET NUMBER:

M2.04

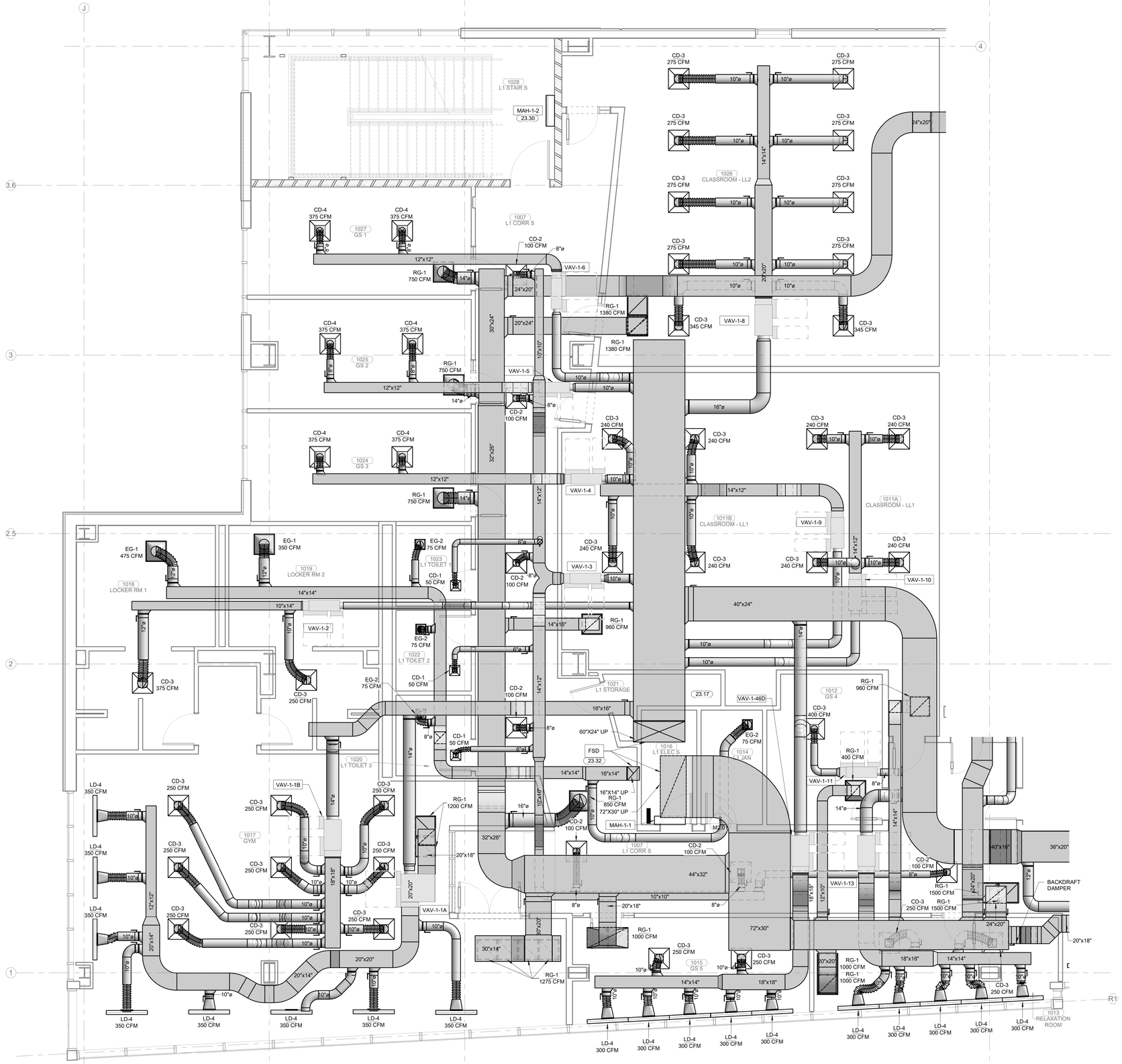
ENLARGED MECHANICAL PLAN LEVEL 01 SECTOR 02

KEYNOTES

23.17 PROVIDE MULTI-SECTION FIRE AND SMOKE DAMPER'S, RUSKIN FSD-60 OR EQUIVALENT, WHERE INDICATED AT SHAFT WALL PENETRATIONS TO MAINTAIN 1-2 HOUR RATING OF SHAFT WALL. MAINTAIN MANUFACTURER'S RECOMMENDED CLEARANCE ON BOTH SIDES OF DUCTS TO ACCOMMODATE FSD ACTUATORS. ACTUATORS SHALL BE TANDEM-MOUNTED (ON SAME SIDE OF DUCT) ONLY WHERE SPACE CONSTRAINTS DO NOT ALLOW ACTUATORS TO BE MOUNTED ON BOTH SIDES OF DUCT.

23.30 MOUNT AT 9'-0" AFF.

23.32 PROVIDE MULTI-SECTION FIRE AND SMOKE DAMPER'S, RUSKIN FSD-60 OR EQUIVALENT, WHERE INDICATED AT FLOOR PENETRATIONS AT BOTTOM OF CHASE TO MAINTAIN 1-2 HOUR RATING AT FLOOR SLAB. MAINTAIN MANUFACTURER'S RECOMMENDED CLEARANCE ON BOTH SIDES OF DUCTS TO ACCOMMODATE FSD ACTUATORS. ACTUATORS SHALL BE TANDEM-MOUNTED (ON SAME SIDE OF DUCT) ONLY WHERE SPACE CONSTRAINTS DO NOT ALLOW ACTUATORS TO BE MOUNTED ON BOTH SIDES OF DUCT. REFER TO DETAIL 2-M2.01.



PLAN NORTH

TRUE NORTH

1 ENLARGED MECHANICAL PLAN LEVEL 01
1/4" = 1'-0"

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CLIENT:

COLLEGE OF Osteopathic Medicine AT THE CHEROKEE NATION

TAHLEQUAH, OKLAHOMA

KEY PLAN:

02 01

PROJECT PHASE:

95% CONSTRUCTION DOCUMENTS

REVISIONS

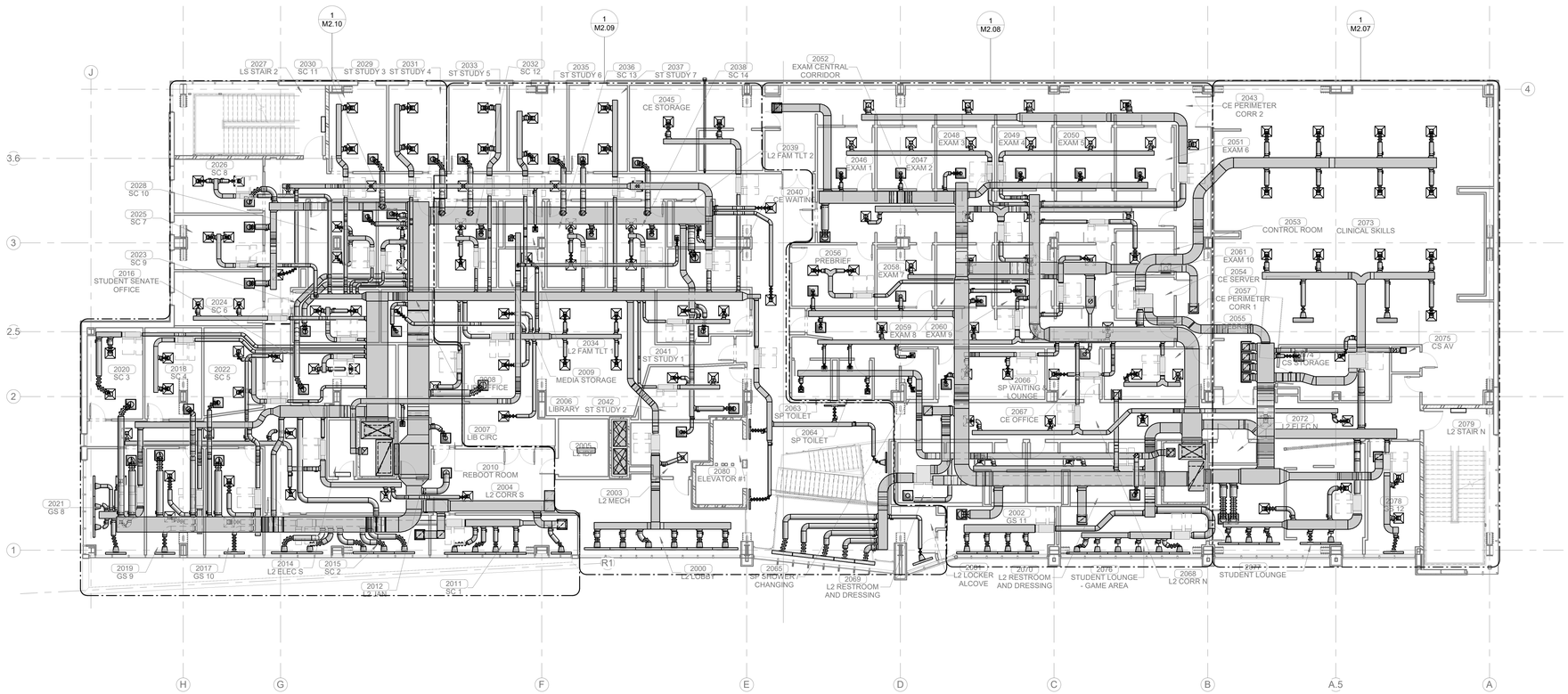
#	DATE	DESCRIPTION

DATE: 07-26-19

JOB NUMBER: 17-13

SHEET NUMBER: M2.05

ENLARGED MECHANICAL PLAN LEVEL 01 SECTOR 02



PLAN NORTH

TRUE NORTH

1 OVERALL MECHANICAL PLAN LEVEL 02

3/32" = 1'-0"

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CONSULTANT LOGO:

HP ENGINEERING

PROJECT NO. 18163R

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CLIENT:

COLLEGE OF Osteopathic Medicine AT THE CHEROKEE NATION

TAHLEQUAH, OKLAHOMA

KEY PLAN:

02 | 01

PROJECT PHASE:

95% CONSTRUCTION DOCUMENTS

REVISIONS:

#	DATE	DESCRIPTION

DATE:	JOB NUMBER:
07-26-19	17-13

SHEET NUMBER:

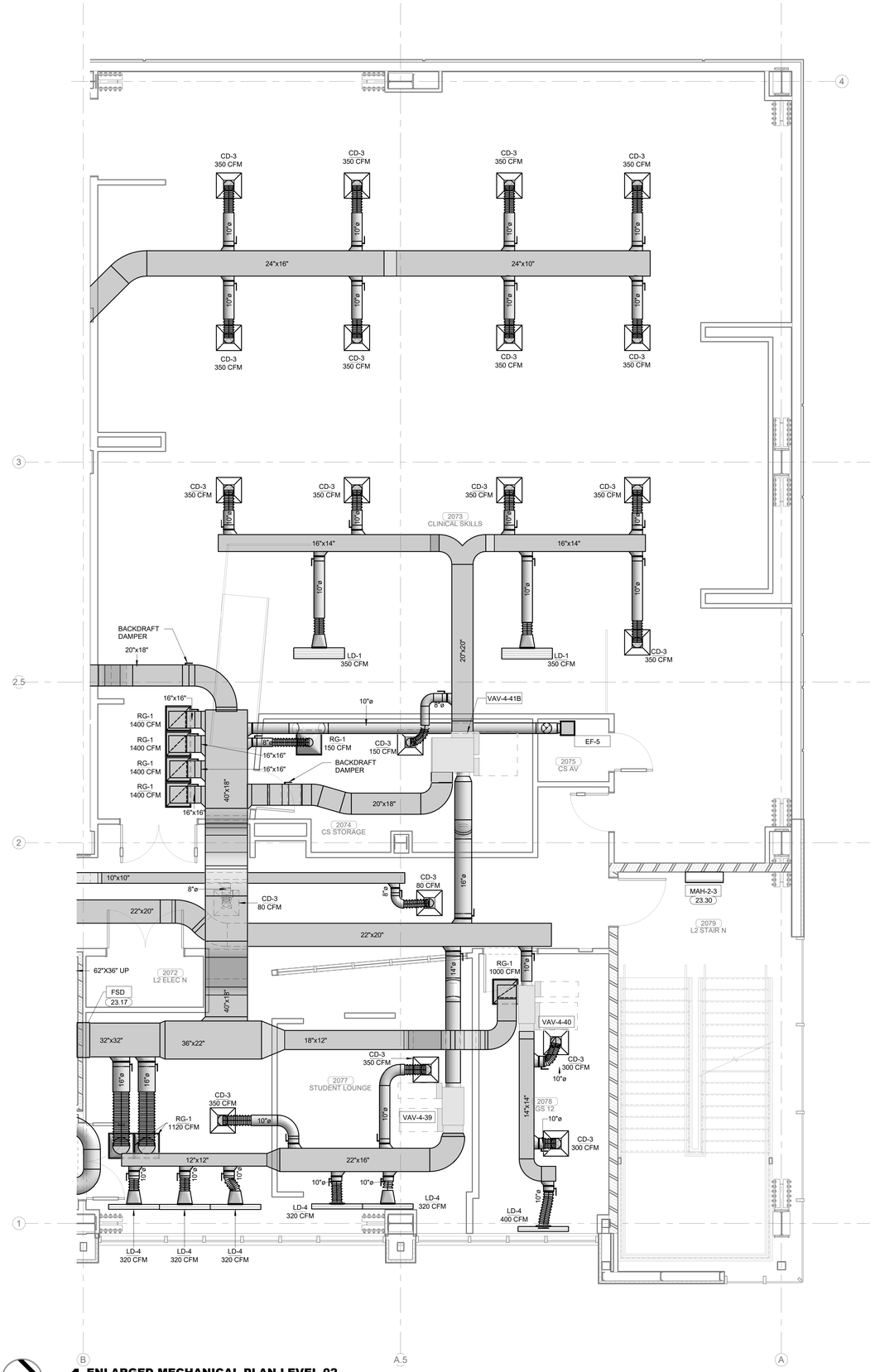
M2.06

OVERALL MECHANICAL PLAN LEVEL 02

KEYNOTES

23.17 PROVIDE MULTI-SECTION FIRE AND SMOKE DAMPER'S, RUSKIN FSD-60 OR EQUIVALENT, WHERE INDICATED AT SHAFT WALL PENETRATIONS TO MAINTAIN 1-2 HOUR RATING OF SHAFT WALL. MAINTAIN MANUFACTURER'S RECOMMENDED CLEARANCE ON BOTH SIDES OF DUCTS TO ACCOMMODATE FSD ACTUATORS. ACTUATORS SHALL BE TANDEM-MOUNTED (ON SAME SIDE OF DUCT) ONLY WHERE SPACE CONSTRAINTS DO NOT ALLOW ACTUATORS TO BE MOUNTED ON BOTH SIDES OF DUCT.

23.30 MOUNT AT 9'-0" AFF.



PLAN NORTH

TRUE NORTH

1 ENLARGED MECHANICAL PLAN LEVEL 02

1/4" = 1'-0"

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CLIENT:

COLLEGE OF Osteopathic Medicine AT THE CHEROKEE NATION

TAHLEQUAH, OKLAHOMA

KEY PLAN:

02 01

PROJECT PHASE:

95% CONSTRUCTION DOCUMENTS

REVISIONS:

#	DATE	DESCRIPTION

DATE: 07-26-19

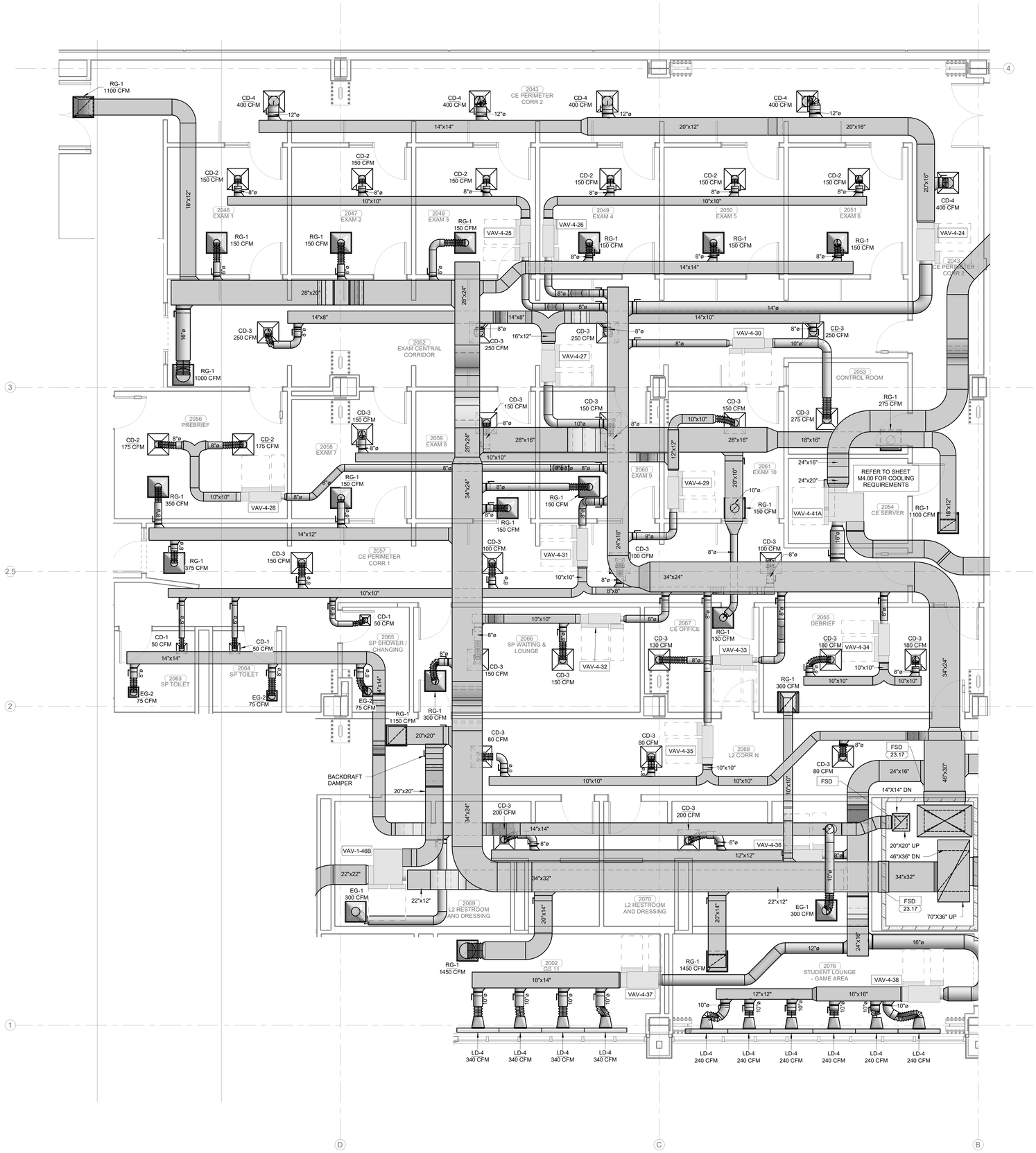
JOB NUMBER: 17-13

SHEET NUMBER: M2.07

ENLARGED MECHANICAL PLAN LEVEL 02 SECTOR 01

KEYNOTES

23.17 PROVIDE MULTI-SECTION FIRE AND SMOKE DAMPER'S, RUSKIN FSD-60 OR EQUIVALENT, WHERE INDICATED AT SHAFT WALL PENETRATIONS TO MAINTAIN 1-2 HOUR RATING OF SHAFT WALL. MAINTAIN MANUFACTURER'S RECOMMENDED CLEARANCE ON BOTH SIDES OF DUCTS TO ACCOMMODATE FSD ACTUATORS. ACTUATORS SHALL BE TANDEM-MOUNTED (ON SAME SIDE OF DUCT) ONLY WHERE SPACE CONSTRAINTS DO NOT ALLOW ACTUATORS TO BE MOUNTED ON BOTH SIDES OF DUCT.



PLAN NORTH

TRUE NORTH

1 ENLARGED MECHANICAL PLAN LEVEL 02

1/4" = 1'-0"

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TAHLEQUAH, OKLAHOMA

KEY PLAN:

02 01

PROJECT PHASE:

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REVISIONS:

#	DATE	DESCRIPTION

DATE:	JOB NUMBER:
07-26-19	17-13

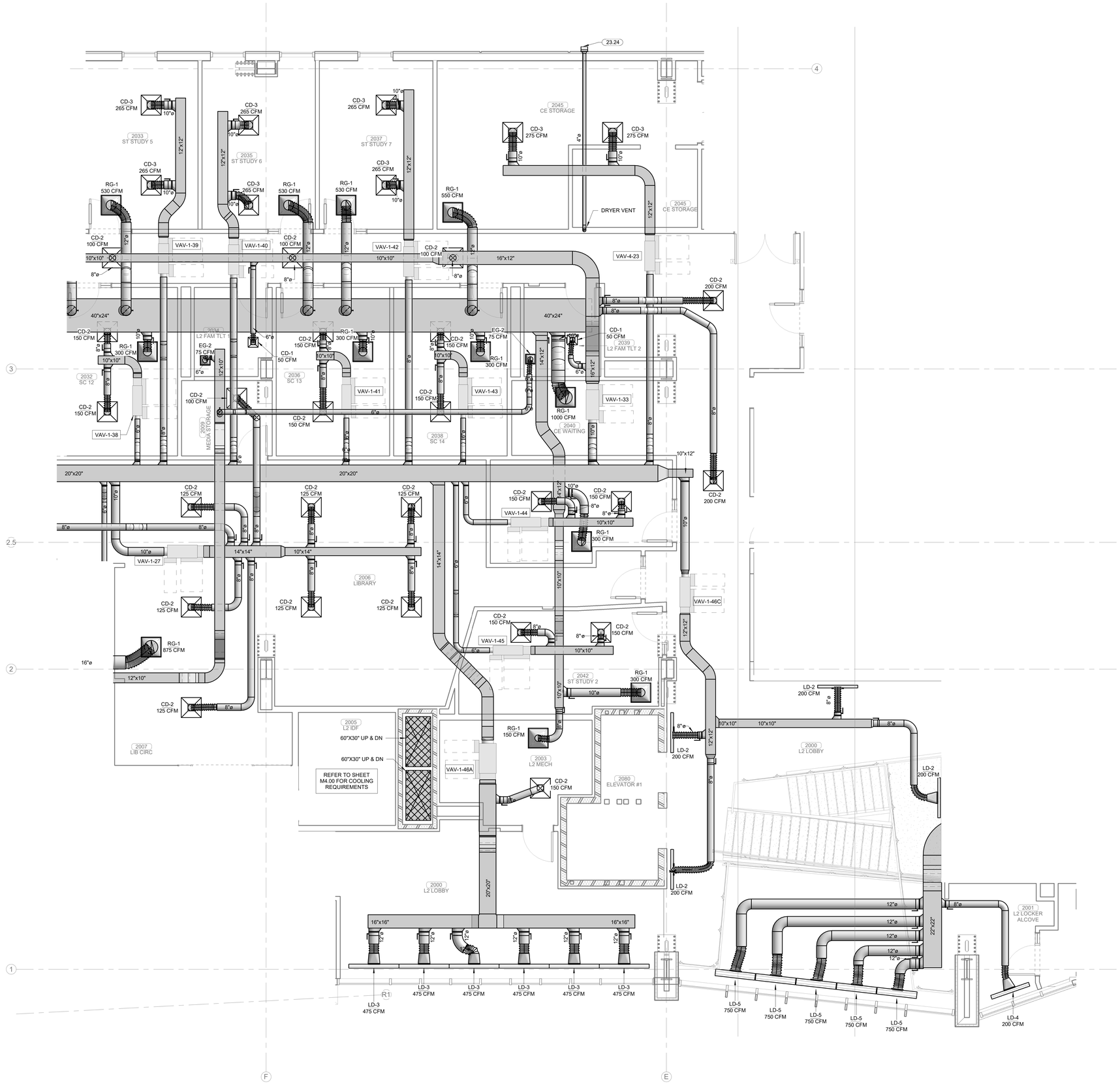
SHEET NUMBER:

M2.08

ENLARGED MECHANICAL PLAN LEVEL 02 SECTOR 01

KEYNOTES

23.24 ROUTE 4"Ø INSULATED STEEL OR ALUMINUM (RATED FOR DRYER EXHAUST) DRYER DUCT TO EXTERIOR AND TERMINATE WITH MFR WALL CAP AS SHOWN.



PLAN NORTH

TRUE NORTH

1 ENLARGED MECHANICAL PLAN LEVEL 02

1/4" = 1'-0"

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TAHLEQUAH, OKLAHOMA

KEY PLAN:

02 01

PROJECT PHASE:

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REVISIONS

#	DATE	DESCRIPTION

DATE: 07-26-19

JOB NUMBER: 17-13

SHEET NUMBER:

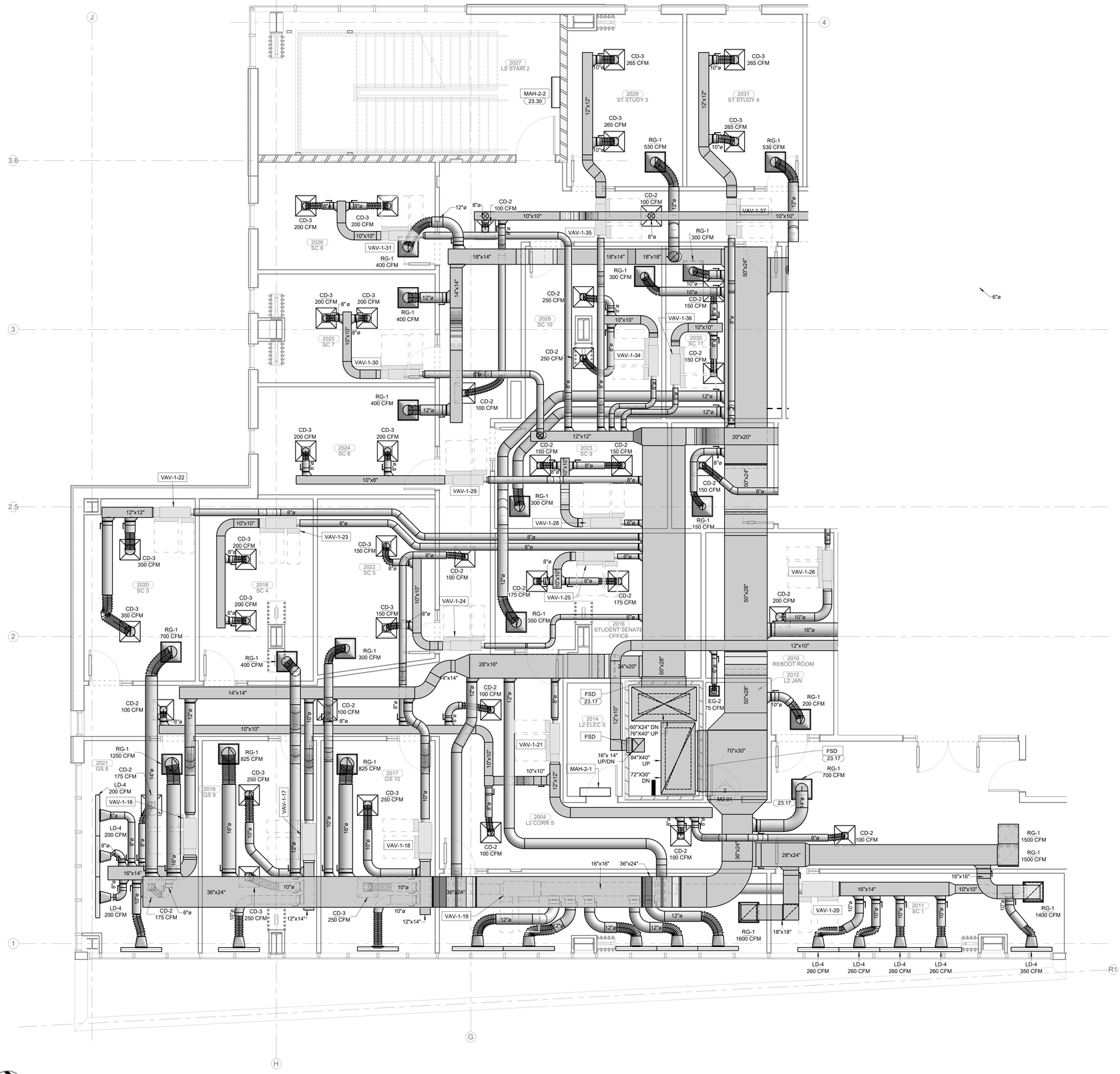
M2.09

ENLARGED MECHANICAL PLAN LEVEL 02 SECTOR 02

KEYNOTES

23.17 PROVIDE MULTI-SECTION FIRE AND SMOKE DAMPER'S. RUSKIN FSD-60 OR EQUIVALENT. WHERE INDICATED AT SHAFT WALL PENETRATIONS TO MAINTAIN 1-2 HOUR RATING OF SHAFT WALL. MAINTAIN MANUFACTURER'S RECOMMENDED CLEARANCE ON BOTH SIDES OF DUCTS TO ACCOMMODATE FSD ACTUATORS. ACTUATORS SHALL BE TANDEM-MOUNTED (ON SAME SIDE OF DUCT) ONLY WHERE SPACE CONSTRAINTS DO NOT ALLOW ACTUATORS TO BE MOUNTED ON BOTH SIDES OF DUCT.

23.30 MOUNT AT 9'-0" AFF.



PLAN NORTH

TRUE NORTH

1 ENLARGED MECHANICAL PLAN LEVEL 02

1/4" = 1'-0"

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TAHLEQUAH, OKLAHOMA

KEY PLAN:

02 01

PROJECT PHASE:

95% CONSTRUCTION DOCUMENTS

REVISIONS

#	DATE	DESCRIPTION

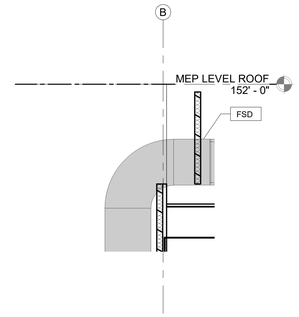
DATE: 07-26-19

JOB NUMBER: 17-13

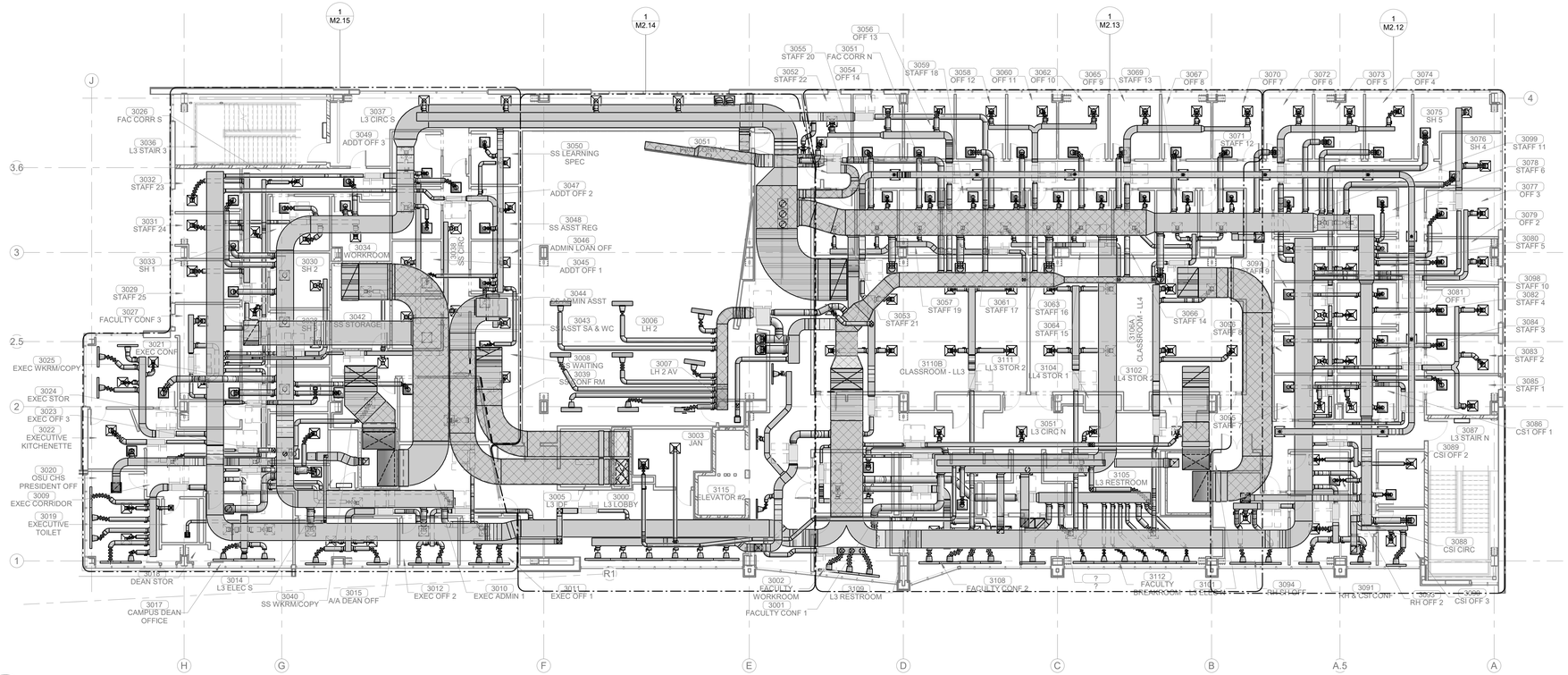
SHEET NUMBER:

M2.10

ENLARGED MECHANICAL PLAN LEVEL 02 SECTOR 02



2 TYPICAL 3RD FLOOR CHASE PENETRATION
1/4" = 1'-0"



PLAN NORTH

TRUE NORTH

1 OVERALL MECHANICAL PLAN LEVEL 03
3/32" = 1'-0"

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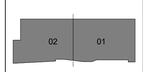
TAHLEQUAH, OKLAHOMA

KEY PLAN:



PROJECT PHASE:

95% CONSTRUCTION DOCUMENTS

REVISIONS

#	DATE	DESCRIPTION

DATE: 07-26-19

JOB NUMBER: 17-13

SHEET NUMBER:

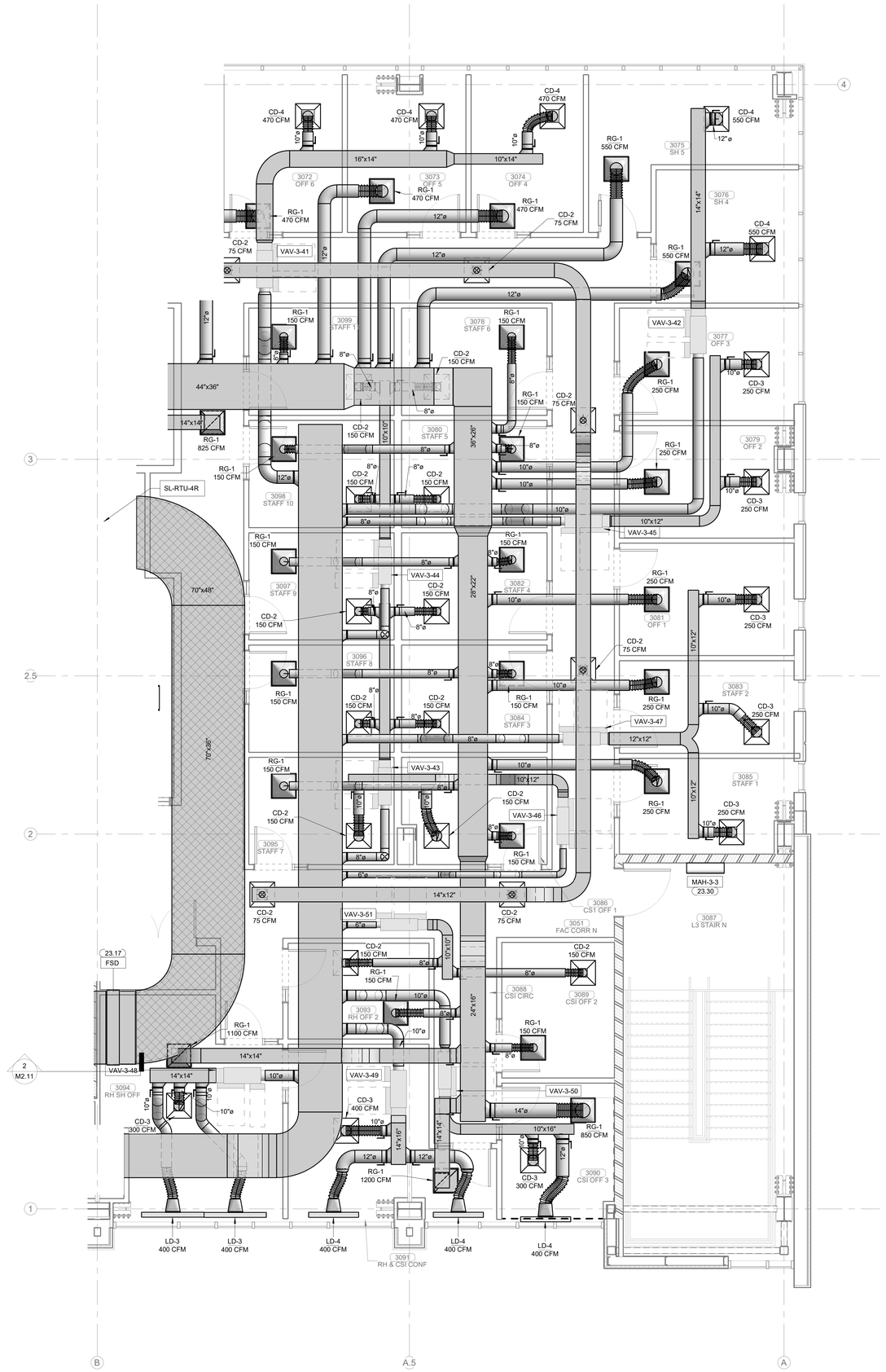
M2.11

OVERALL MECHANICAL PLAN LEVEL 03

KEYNOTES

23.17 PROVIDE MULTI-SECTION FIRE AND SMOKE DAMPER'S, RUSKIN FSD-60 OR EQUIVALENT, WHERE INDICATED AT SHAFT WALL PENETRATIONS TO MAINTAIN 1-2 HOUR RATING OF SHAFT WALL. MAINTAIN MANUFACTURER'S RECOMMENDED CLEARANCE ON BOTH SIDES OF DUCTS TO ACCOMMODATE FSD ACTUATORS. ACTUATORS SHALL BE TANDEM-MOUNTED (ON SAME SIDE OF DUCT) ONLY WHERE SPACE CONSTRAINTS DO NOT ALLOW ACTUATORS TO BE MOUNTED ON BOTH SIDES OF DUCT.

23.30 MOUNT AT 9'-0" AFF.



PLAN NORTH

TRUE NORTH

1 ENLARGED MECHANICAL PLAN LEVEL 03

1/4" = 1'-0"

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COLLEGE OF Osteopathic Medicine AT THE CHEROKEE NATION

TAHLEQUAH, OKLAHOMA

KEY PLAN:

02 01

PROJECT PHASE:

95% CONSTRUCTION DOCUMENTS

REVISIONS

#	DATE	DESCRIPTION

DATE: 07-26-19

JOB NUMBER: 17-13

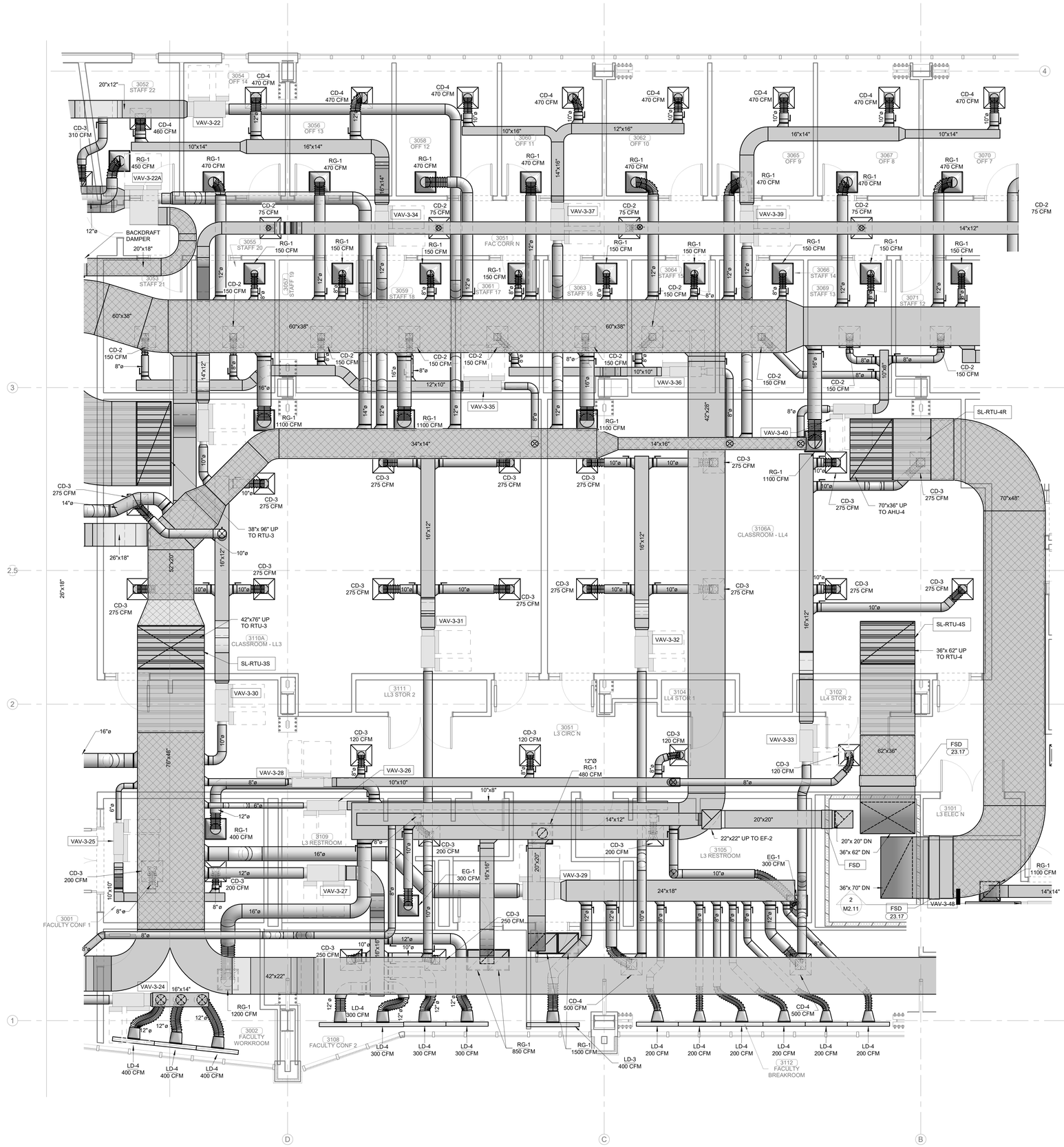
SHEET NUMBER:

M2.12

ENLARGED MECHANICAL PLAN LEVEL 03 SECTOR 01

KEYNOTES

23.17 PROVIDE MULTI-SECTION FIRE AND SMOKE DAMPER'S, RUSKIN FSD-60 OR EQUIVALENT, WHERE INDICATED AT SHAFT WALL PENETRATIONS TO MAINTAIN 1-2 HOUR RATING OF SHAFT WALL. MAINTAIN MANUFACTURER'S RECOMMENDED CLEARANCE ON BOTH SIDES OF DUCTS TO ACCOMMODATE FSD ACTUATORS. ACTUATORS SHALL BE TANDEM-MOUNTED (ON SAME SIDE OF DUCT) ONLY WHERE SPACE CONSTRAINTS DO NOT ALLOW ACTUATORS TO BE MOUNTED ON BOTH SIDES OF DUCT.



PLAN NORTH

TRUE NORTH

1 ENLARGED MECHANICAL PLAN LEVEL 03

1/4" = 1'-0"

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COLLEGE OF Osteopathic Medicine AT THE CHEROKEE NATION

TAHLEQUAH, OKLAHOMA

KEY PLAN:

02 01

PROJECT PHASE:

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REVISIONS		
#	DATE:	DESCRIPTION:

DATE:	JOB NUMBER:
07-26-19	17-13

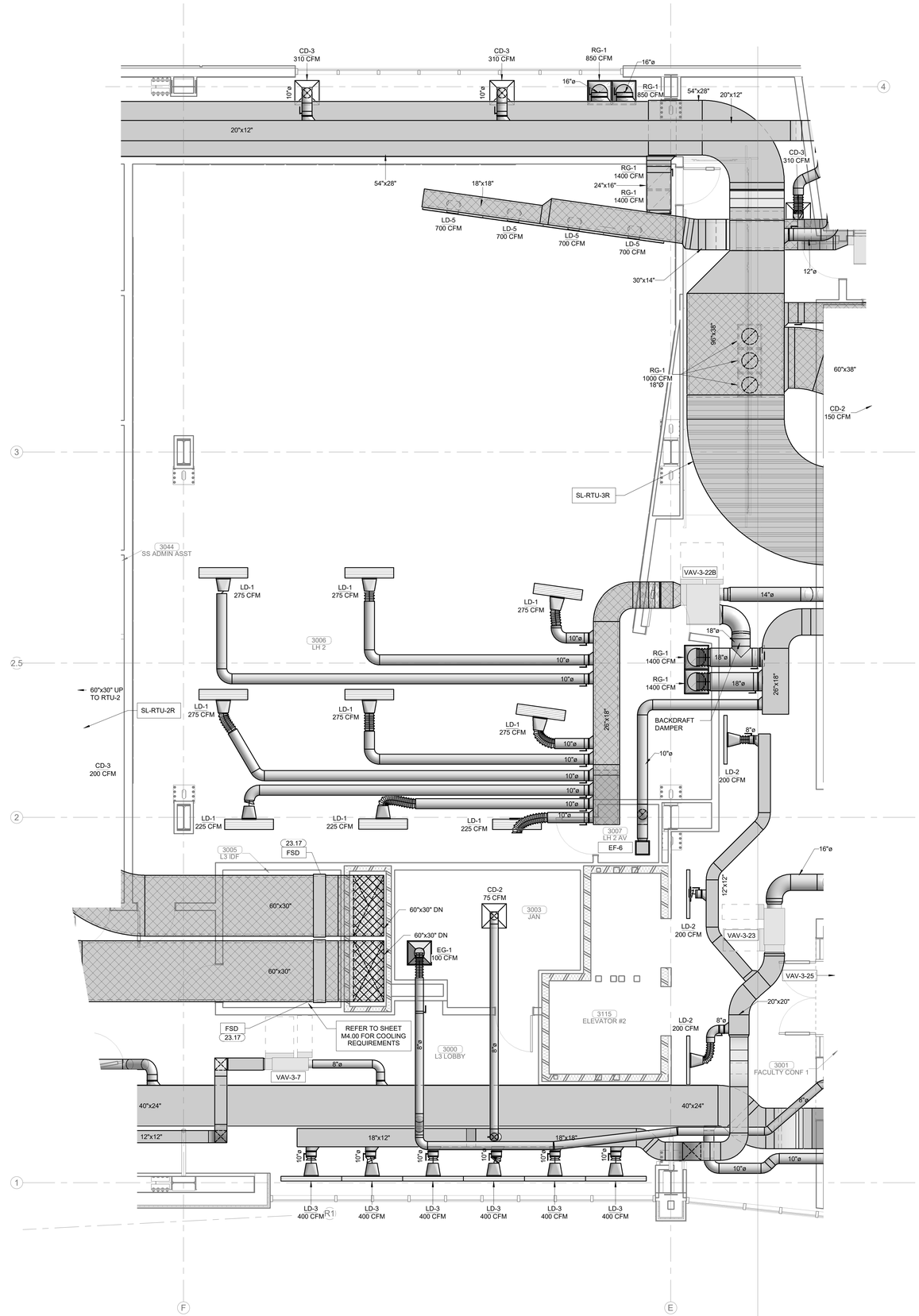
SHEET NUMBER:

M2.13

ENLARGED MECHANICAL PLAN LEVEL 03 SECTOR 01

KEYNOTES

23.17 PROVIDE MULTI-SECTION FIRE AND SMOKE DAMPER'S, RUSKIN FSD40 OR EQUIVALENT. WHERE INDICATED AT SHAFT WALL PENETRATIONS TO MAINTAIN 1-2 HOUR RATING OF SHAFT WALL. MAINTAIN MANUFACTURER'S RECOMMENDED CLEARANCE ON BOTH SIDES OF DUCTS TO ACCOMMODATE FSD ACTUATORS. ACTUATORS SHALL BE TANDEM-MOUNTED (ON SAME SIDE OF DUCT) ONLY WHERE SPACE CONSTRAINTS DO NOT ALLOW ACTUATORS TO BE MOUNTED ON BOTH SIDES OF DUCT.



PLAN NORTH

TRUE NORTH

1 ENLARGED MECHANICAL PLAN LEVEL 03

1/4" = 1'-0"

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AT THE CHEROKEE NATION
TAHLEQUAH, OKLAHOMA

KEY PLAN:

02 01

PROJECT PHASE:

95% CONSTRUCTION DOCUMENTS

REVISIONS		
#	DATE	DESCRIPTION

DATE:	JOB NUMBER:
07-26-19	17-13

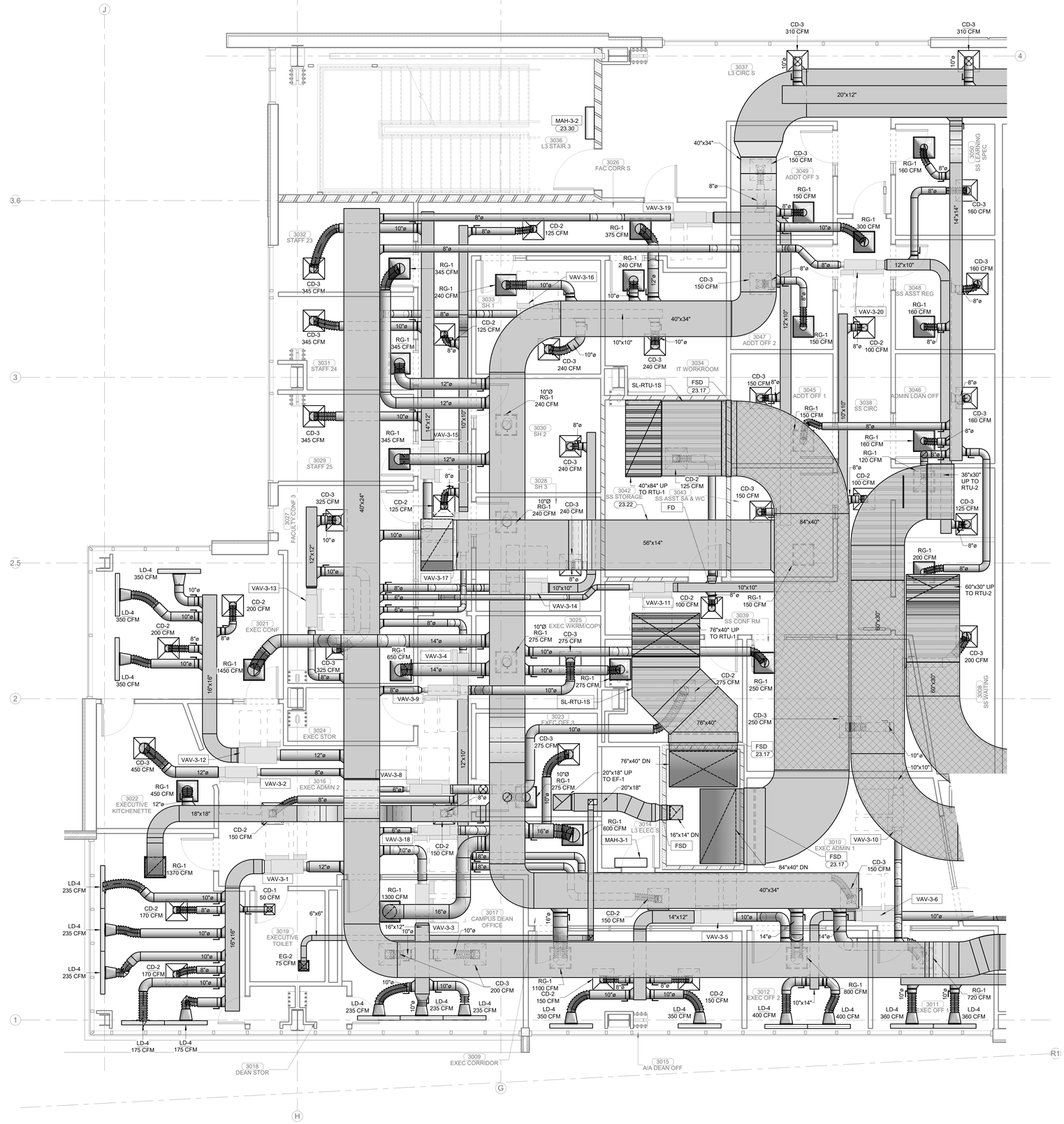
SHEET NUMBER:

M2.14

ENLARGED MECHANICAL PLAN LEVEL 03 SECTOR 02

KEYNOTES

23.17	PROVIDE MULTI-SECTION FIRE AND SMOKE DAMPER'S, RUSKIN FSD-60 OR EQUIVALENT, WHERE INDICATED AT SHAFT WALL PENETRATIONS TO MAINTAIN 1-2 HOUR RATING OF SHAFT WALL. MAINTAIN MANUFACTURER'S RECOMMENDED CLEARANCE ON BOTH SIDES OF DUCTS TO ACCOMMODATE FSD ACTUATORS. ACTUATORS SHALL BE TANDEM-MOUNTED (ON SAME SIDE OF DUCT) ONLY WHERE SPACE CONSTRAINTS DO NOT ALLOW ACTUATORS TO BE MOUNTED ON BOTH SIDES OF DUCT.
23.22	ROUTE 60"x14" EXHAUST DUCT TIGHT TO UNDERSIDE OF STRUCTURE AT TAKE-OFF. OFFSET HORIZONTALLY UP TO UNDERSIDE OF SHALLOWER STRUCTURE (W15 BEAM) WITHIN 3009-EXEC CORRIDOR TO RUN DUCT OVER 40"x34" EXHAUST DUCT OVER ROOM 3028-SH3. CONTINUE AT THIS ELEVATION TO CONNECTION TO 58"x36" PLENUM BELOW EXHAUST FAN.
23.30	MOUNT AT 9'-0" AFF.



PLAN NORTH

TRUE NORTH

1 ENLARGED MECHANICAL PLAN LEVEL 03
1/4" = 1'-0"

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TAHLEQUAH, OKLAHOMA

KEY PLAN:

02 01

PROJECT PHASE:

95% CONSTRUCTION DOCUMENTS

REVISIONS

#	DATE	DESCRIPTION

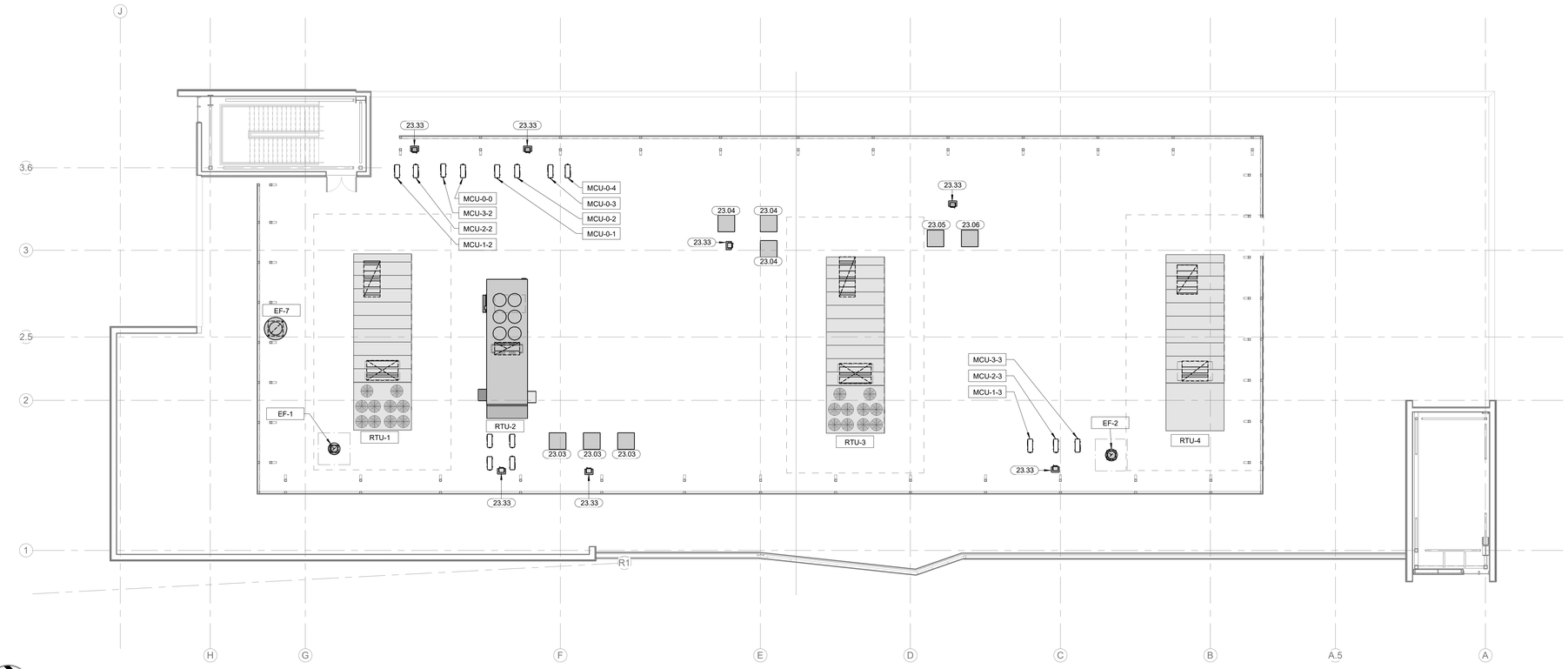
DATE: 07-26-19

JOB NUMBER: 17-13

SHEET NUMBER: M2.15

ENLARGED MECHANICAL PLAN LEVEL 03 SECTOR 02

KEYNOTES	
23.03	CONDENSING UNIT TO SERVE MDF ROOM IN BASEMENT. REFER TO SHEET M4.00.
23.04	CONDENSING UNIT TO SERVE IDF ROOM. REFER TO SHEET M4.00.
23.05	CONDENSING UNIT TO SERVE SIM SERVER ROOM. REFER TO SHEET M4.00.
23.06	CONDENSING UNIT TO SERVE CE SERVER ROOM. REFER TO SHEET M4.00.
23.33	REFRIGERANT PIPING TO BE ROUTED DN IN GOOSENECK THROUGH ROOF FROM ROOFTOP CONDENSING UNITS TO INDOOR AIR HANDLER. REFER TO DETAIL 11-M1.03. REFER TO SHEETS M7.00 THRU M7.04 FOR CONTINUATION OF REFRIGERANT PIPE ROUTING AND CONDENSATE PIPE ROUTING.



PLAN NORTH

TRUE NORTH

1 OVERALL MECHANICAL PLAN ROOF

3/32" = 1'-0"

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AT THE CHEROKEE NATION

TAHLEQUAH, OKLAHOMA

KEY PLAN:

02 01

PROJECT PHASE:

95% CONSTRUCTION DOCUMENTS

REVISIONS:

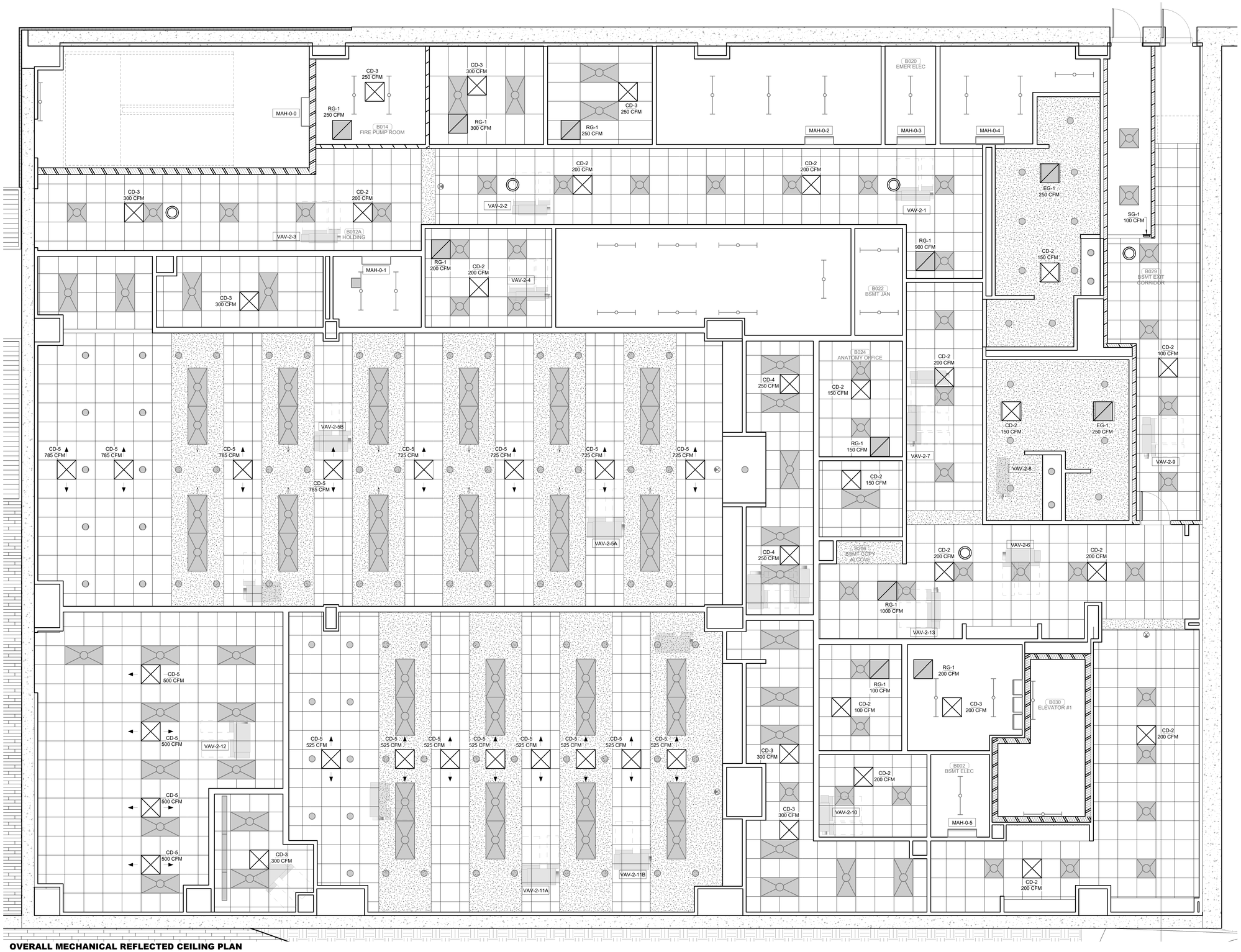
#	DATE	DESCRIPTION

DATE:	JOB NUMBER:
07-26-19	17-13

SHEET NUMBER:

M2.16

OVERALL MECHANICAL ROOF PLAN



PLAN NORTH

TRUE NORTH

1 OVERALL MECHANICAL REFLECTED CEILING PLAN
BASEMENT LEVEL
1/4" = 1'-0"

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PROJECT NO. 18163R

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AT THE CHEROKEE NATION
TAHLEQUAH, OKLAHOMA

KEY PLAN:

02 01

PROJECT PHASE:

95% CONSTRUCTION DOCUMENTS

REVISIONS

#	DATE	DESCRIPTION

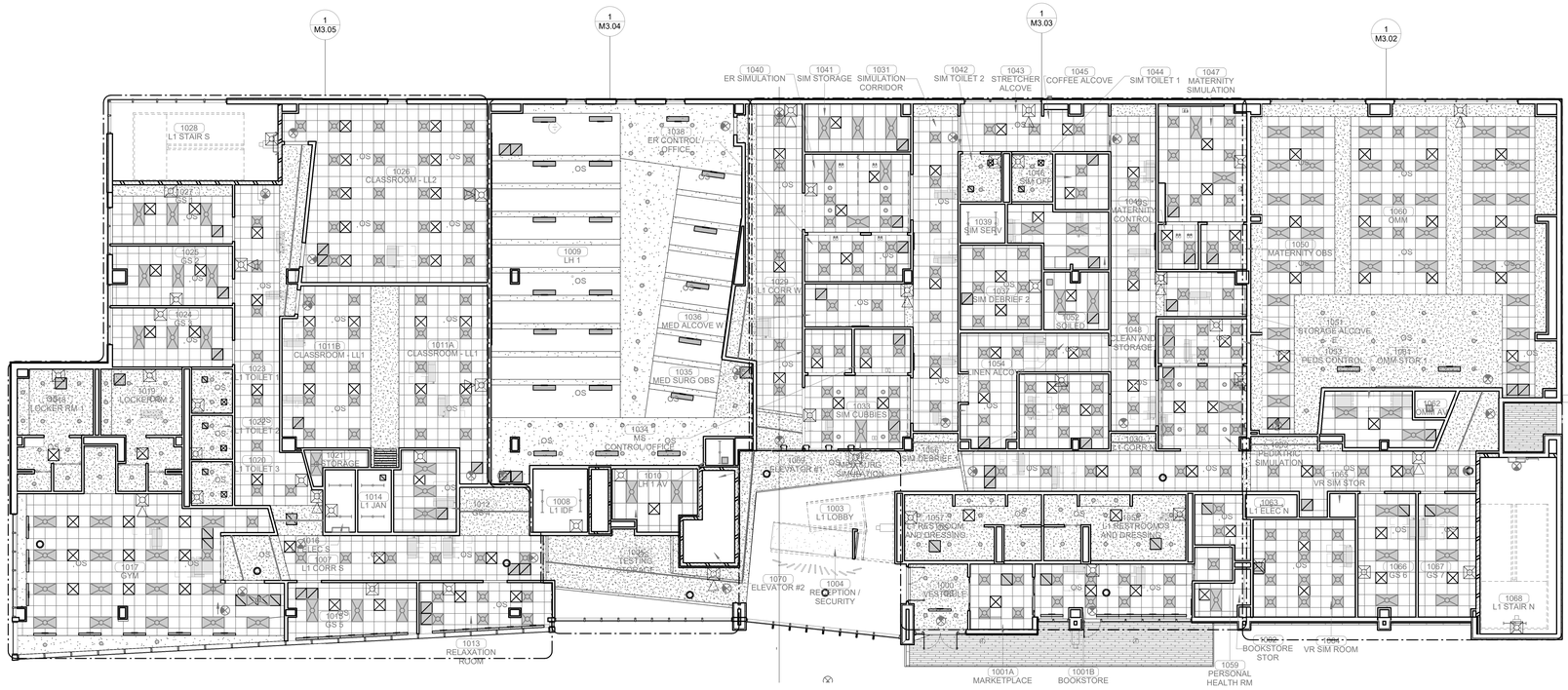
DATE: 07-26-19

JOB NUMBER: 17-13

SHEET NUMBER:

M3.00

OVERALL MECHANICAL REFLECTED CEILING PLAN BASEMENT LEVEL SECTOR 02



1 MECHANICAL REFLECTED CEILING PLAN LEVEL 01

3/32" = 1'-0"

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CLIENT:

COLLEGE OF Osteopathic Medicine
AT THE CHEROKEE NATION
TAHLEQUAH, OKLAHOMA

KEY PLAN:

02 | 01

PROJECT PHASE:

95% CONSTRUCTION DOCUMENTS

REVISIONS:

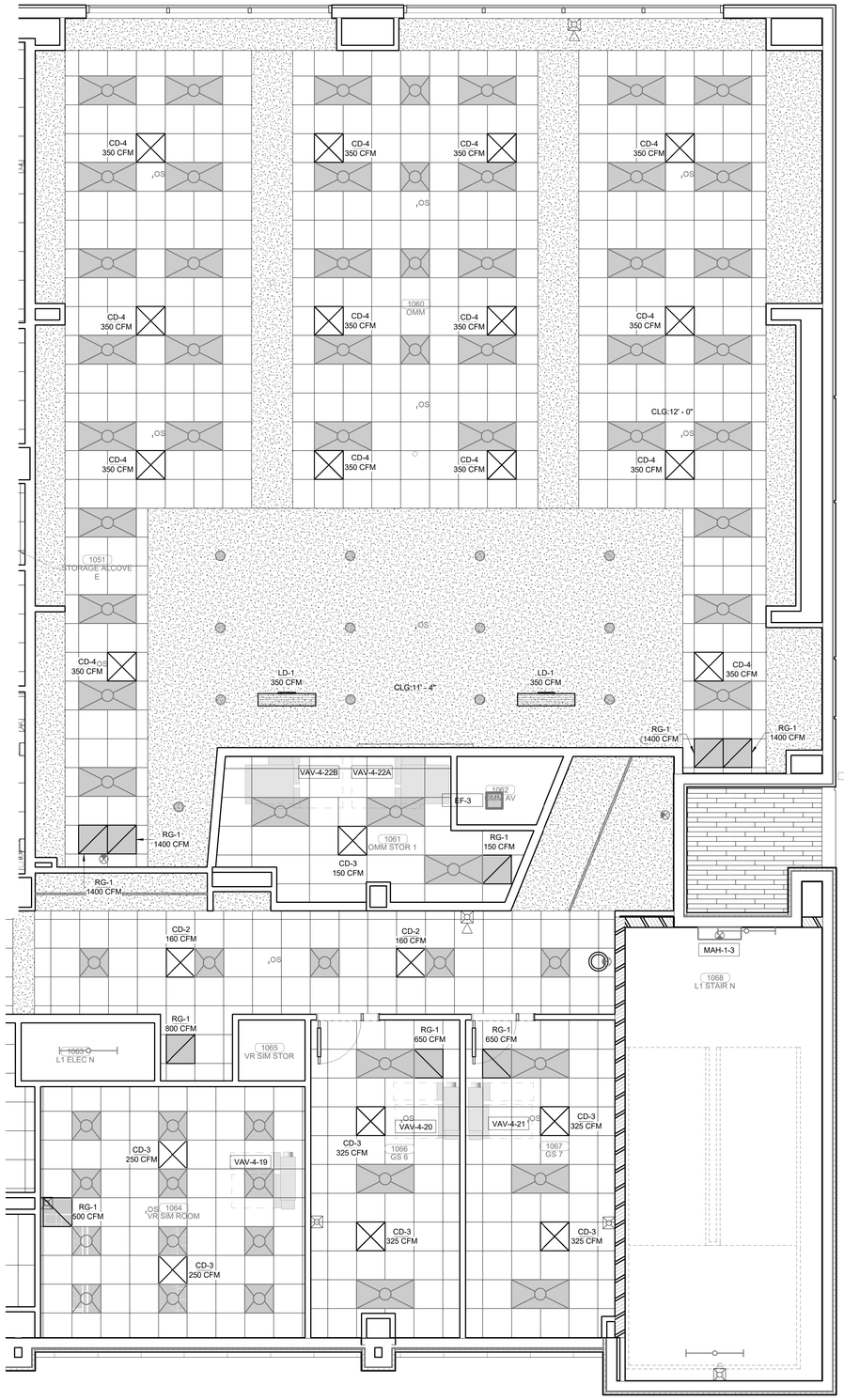
#	DATE	DESCRIPTION

DATE:	JOB NUMBER:
07-26-19	17-13

SHEET NUMBER:

M3.01

OVERALL MECHANICAL REFLECTED CEILING PLAN LEVEL 01



PLAN NORTH

TRUE NORTH

1 ENLARGED MECHANICAL REFLECTED CEILING PLAN
LEVEL 01
1/4" = 1'-0"

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www.childersarchitect.com

PROFESSIONAL SEAL:

PRELIMINARY.
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CONSULTANT LOGO:

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PROJECT NO. 18163R
95 % COMPLETE

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KEY PLAN:

02 01

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REVISIONS

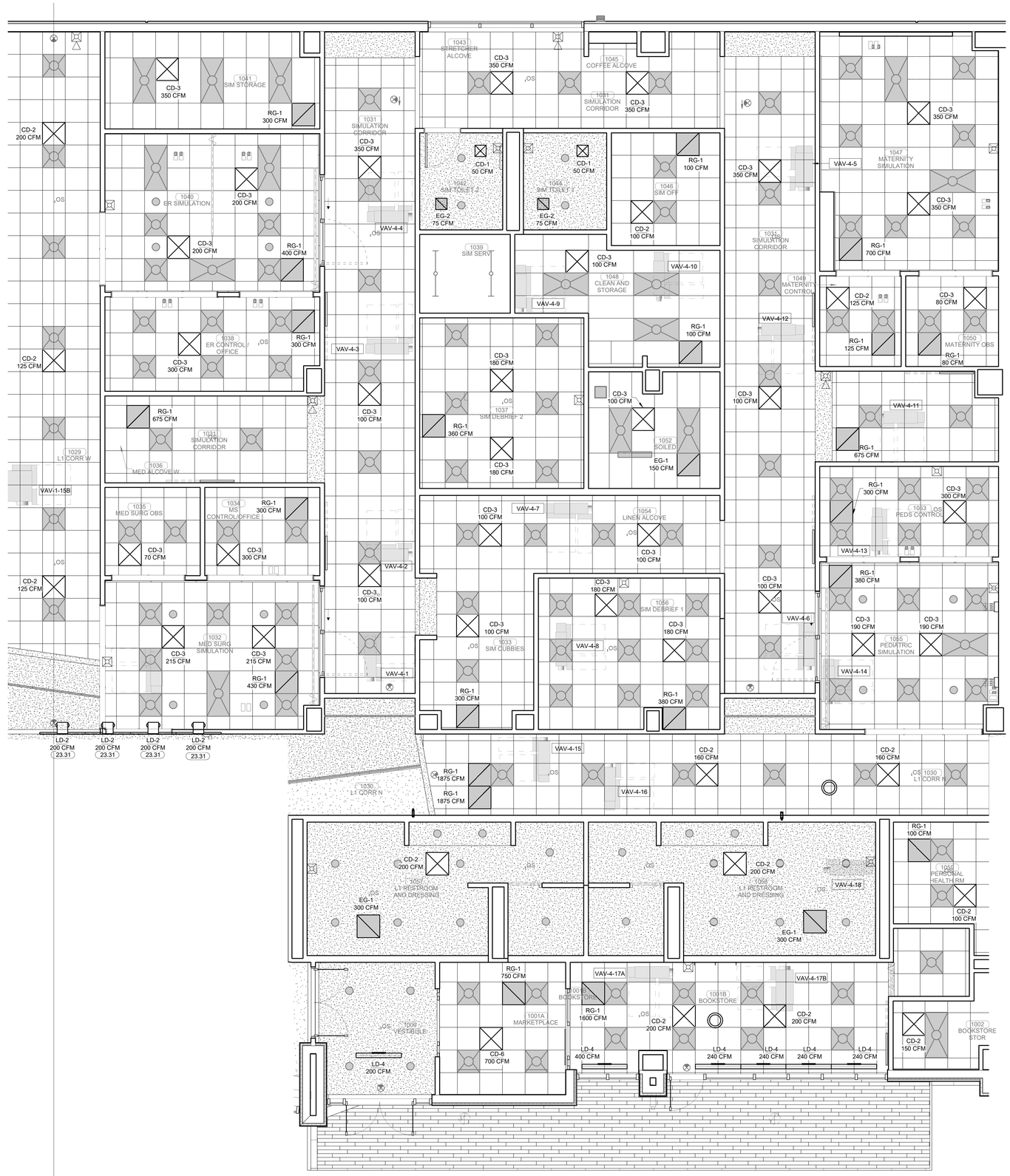
#	DATE	DESCRIPTION

DATE:	JOB NUMBER:
07-26-19	17-13

SHEET NUMBER:

M3.02

ENLARGED MECHANICAL REFLECTED CEILING PLAN LEVEL 01 SECTOR 01



PLAN NORTH

TRUE NORTH

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LEVEL 01
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02 01

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07-26-19	17-13

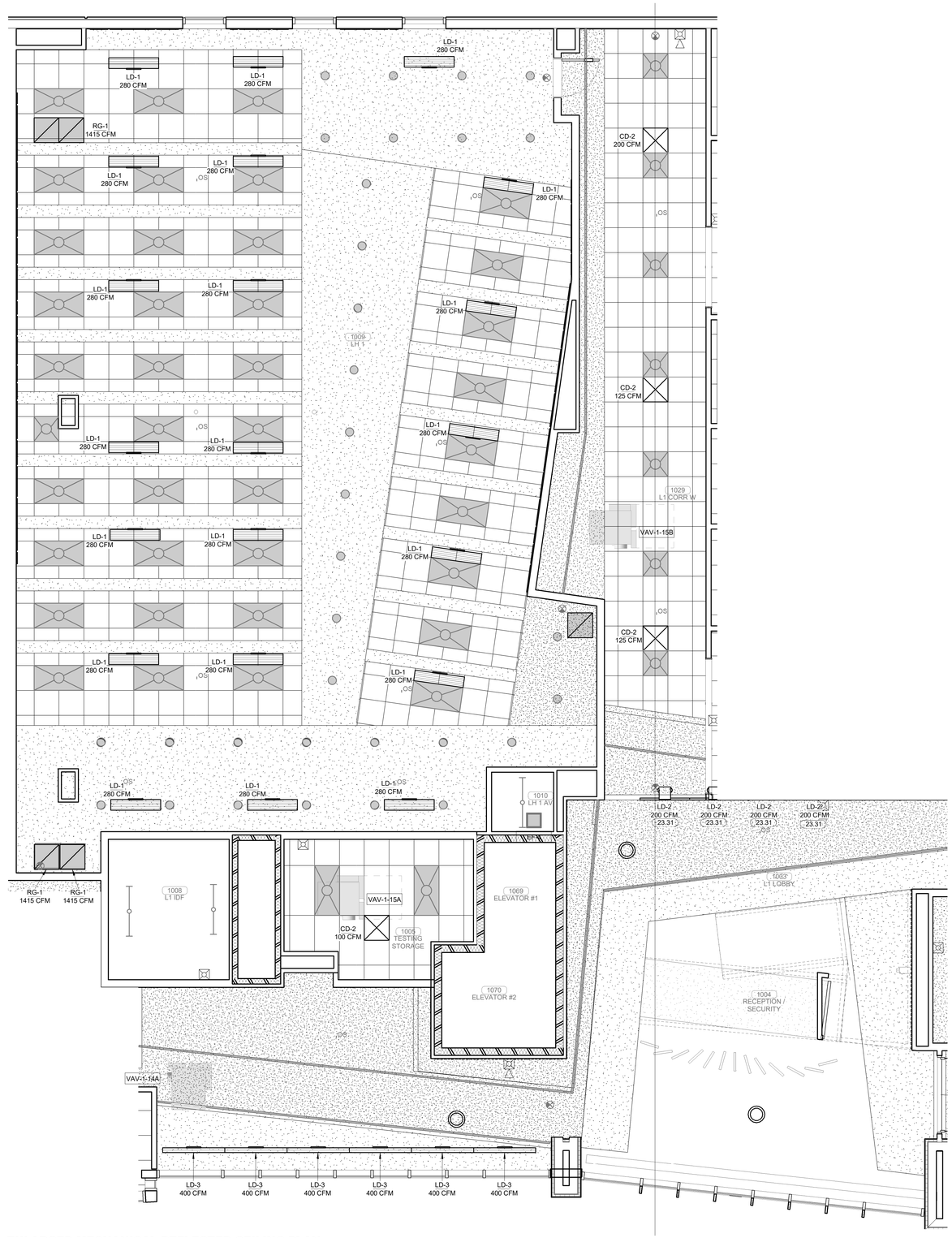
SHEET NUMBER:

M3.03

ENLARGED MECHANICAL REFLECTED CEILING PLAN LEVEL 01 SECTOR 01

KEYNOTES

23.31 MOUNT AT 12'-0" AFF.



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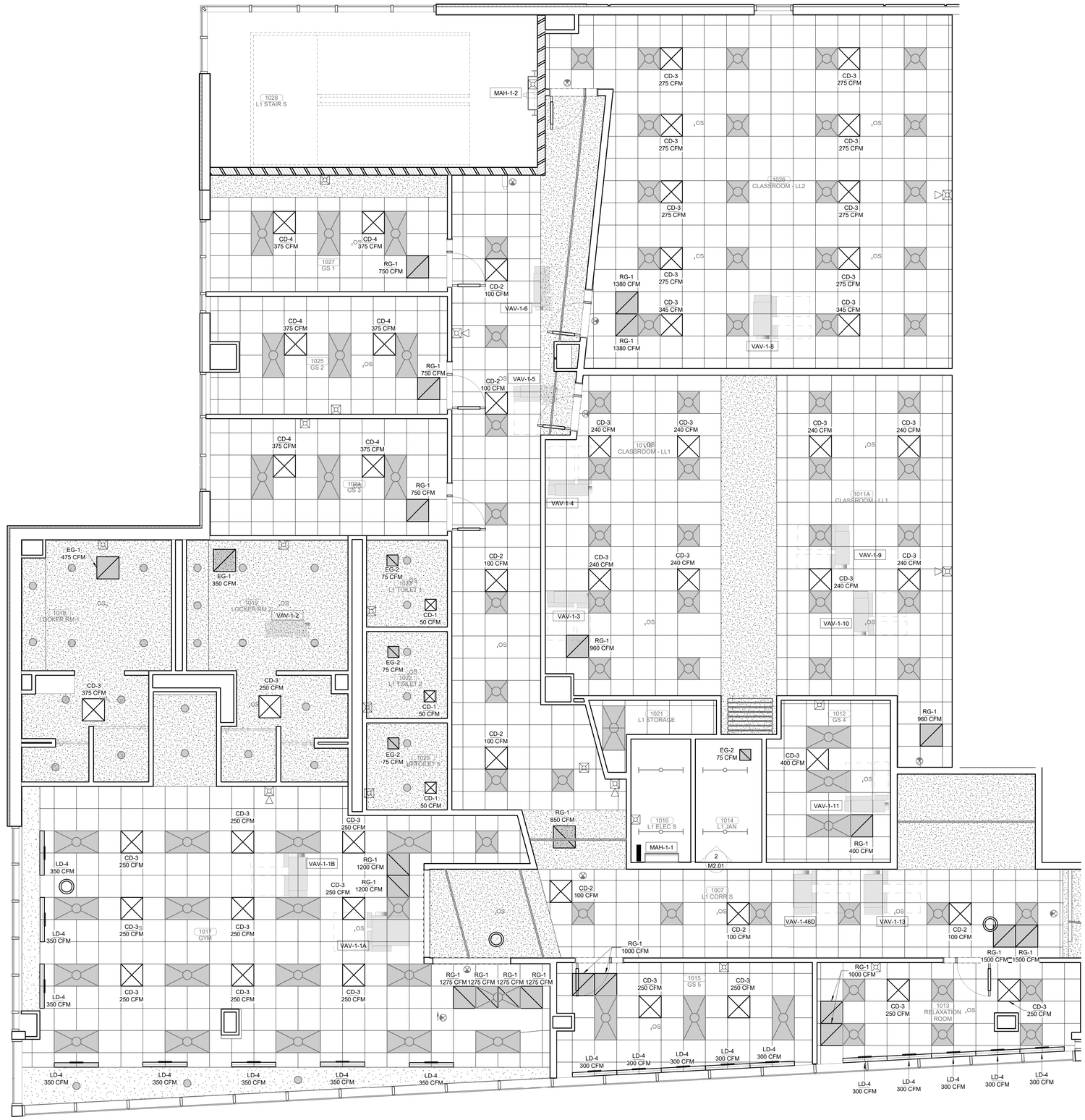
07-26-19	17-13

SHEET NUMBER:

M3.04

ENLARGED MECHANICAL REFLECTED CEILING PLAN LEVEL 01 SECTOR 02



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TRUE NORTH

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LEVEL 01
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PROJECT PHASE:

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REVISIONS		
#	DATE	DESCRIPTION

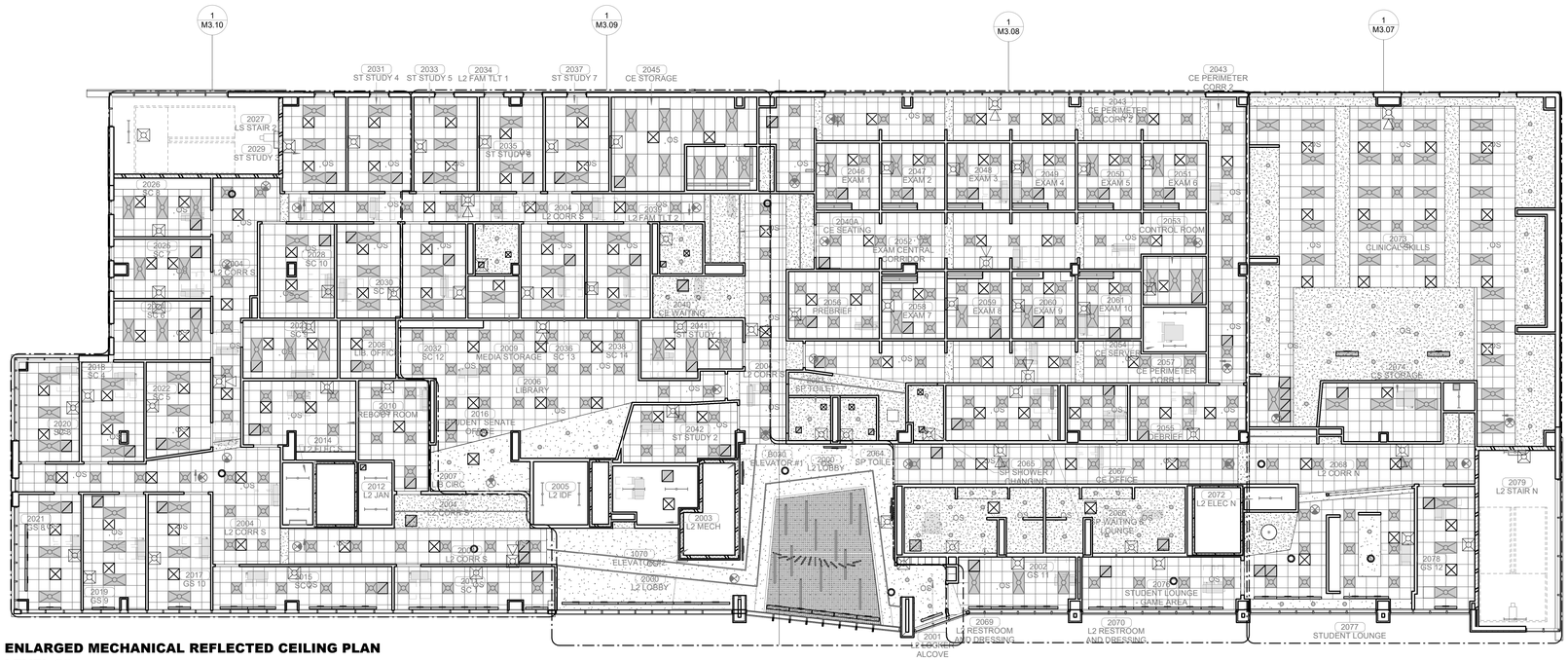
DATE: 07-26-19

JOB NUMBER: 17-13

SHEET NUMBER:

M3.05

ENLARGED MECHANICAL REFLECTED CEILING PLAN LEVEL 01 SECTOR 02



PLAN NORTH

TRUE NORTH

1 ENLARGED MECHANICAL REFLECTED CEILING PLAN
LEVEL 02
3/32" = 1'-0"

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KEY PLAN:

02 | 01

PROJECT PHASE:

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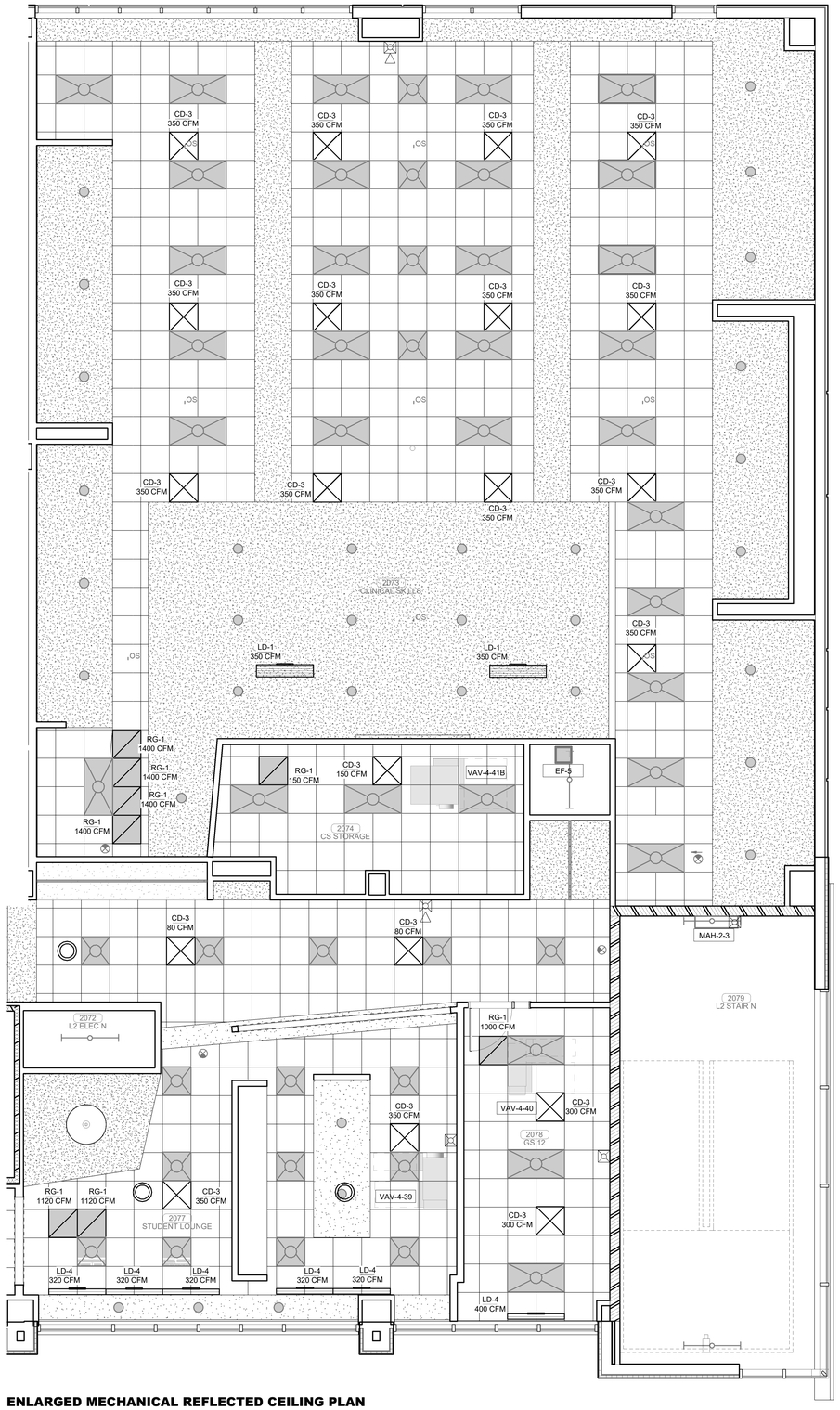
DATE:	JOB NUMBER:
07-26-19	17-13

SHEET NUMBER:

M3.06

OVERALL MECHANICAL REFLECTED CEILING PLAN LEVEL 02



PLAN NORTH

TRUE NORTH

1 ENLARGED MECHANICAL REFLECTED CEILING PLAN LEVEL 02

1/4" = 1'-0"

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TAHLEQUAH, OKLAHOMA

KEY PLAN:

02 01

PROJECT PHASE:

95% CONSTRUCTION DOCUMENTS

REVISIONS

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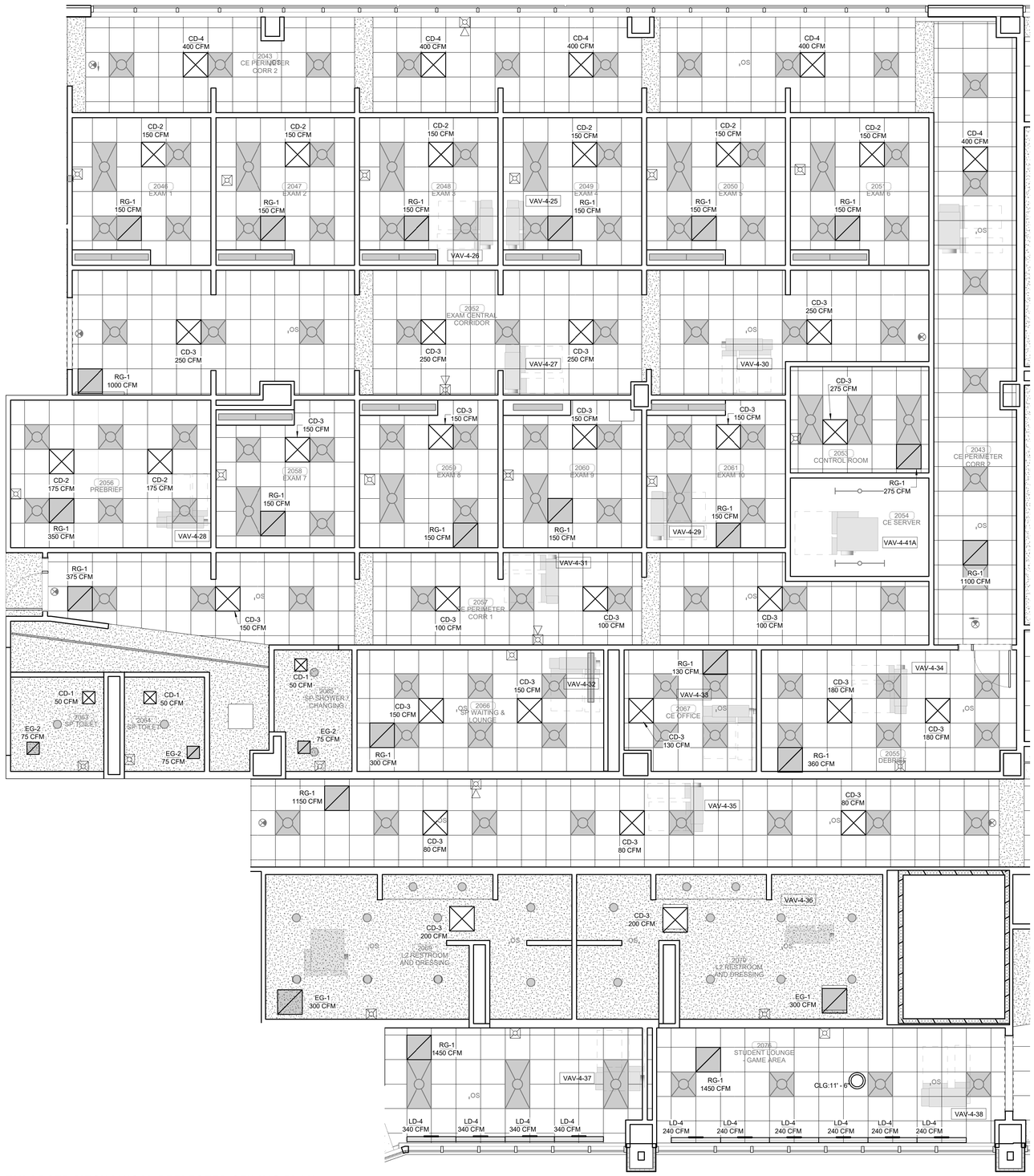
DATE:	JOB NUMBER:
07-26-19	17-13

SHEET NUMBER:

M3.07

ENLARGED MECHANICAL REFLECTED CEILING PLAN LEVEL 02 SECTOR 01



PLAN NORTH

TRUE NORTH

1 ENLARGED MECHANICAL REFLECTED CEILING PLAN
LEVEL 02
1/4" = 1'-0"

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REVISIONS		
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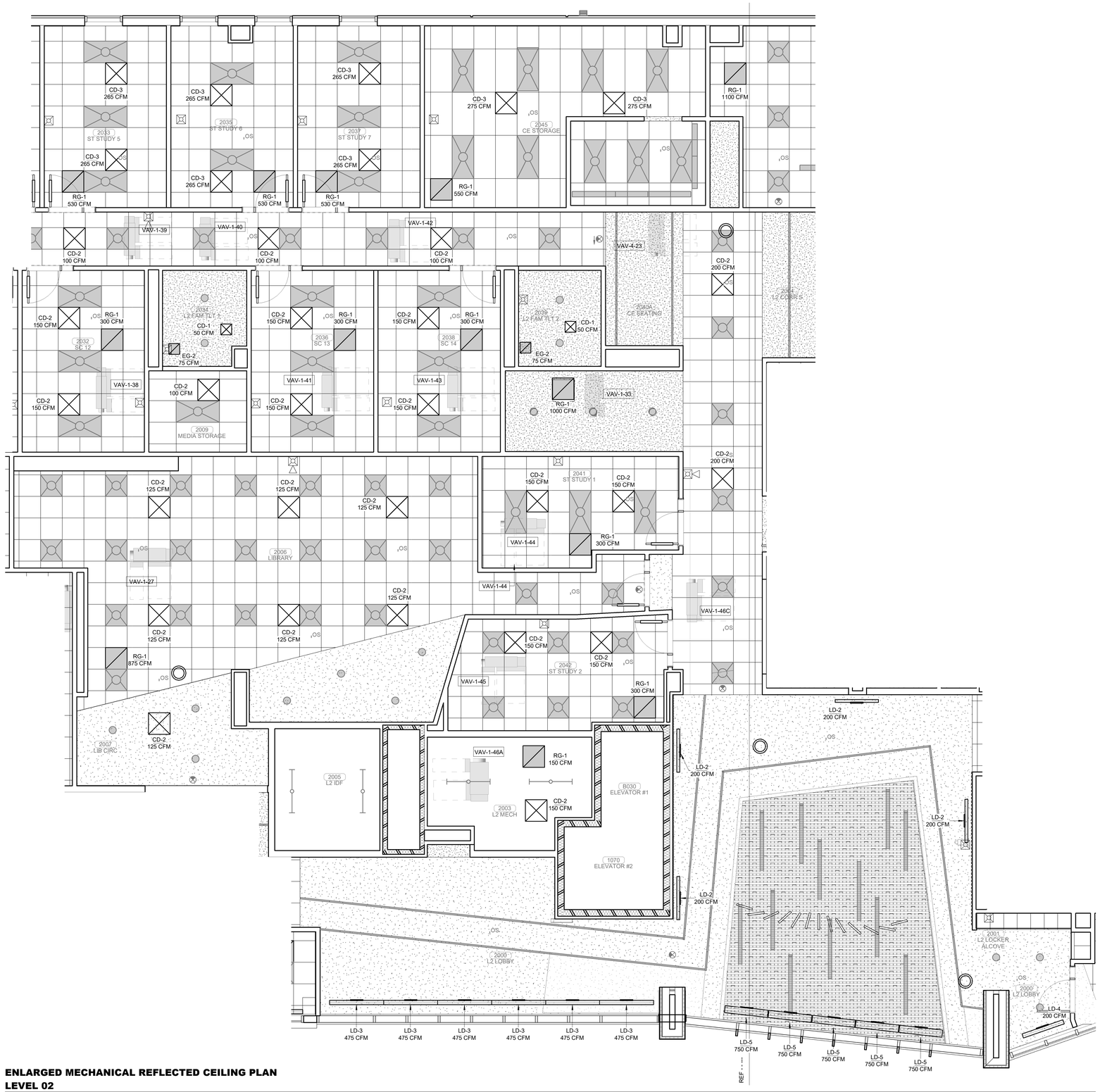
DATE:	JOB NUMBER:
07-26-19	17-13

SHEET NUMBER:

M3.08

ENLARGED MECHANICAL REFLECTED CEILING PLAN LEVEL 02 SECTOR 01



PLAN NORTH

TRUE NORTH

1 ENLARGED MECHANICAL REFLECTED CEILING PLAN LEVEL 02

1/4" = 1'-0"

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SHEET NUMBER:

M3.09

ENLARGED MECHANICAL REFLECTED CEILING PLAN LEVEL 02 SECTOR 02

PLAN NORTH

TRUE NORTH

1 ENLARGED MECHANICAL REFLECTED CEILING PLAN LEVEL 02

1/4" = 1'-0"

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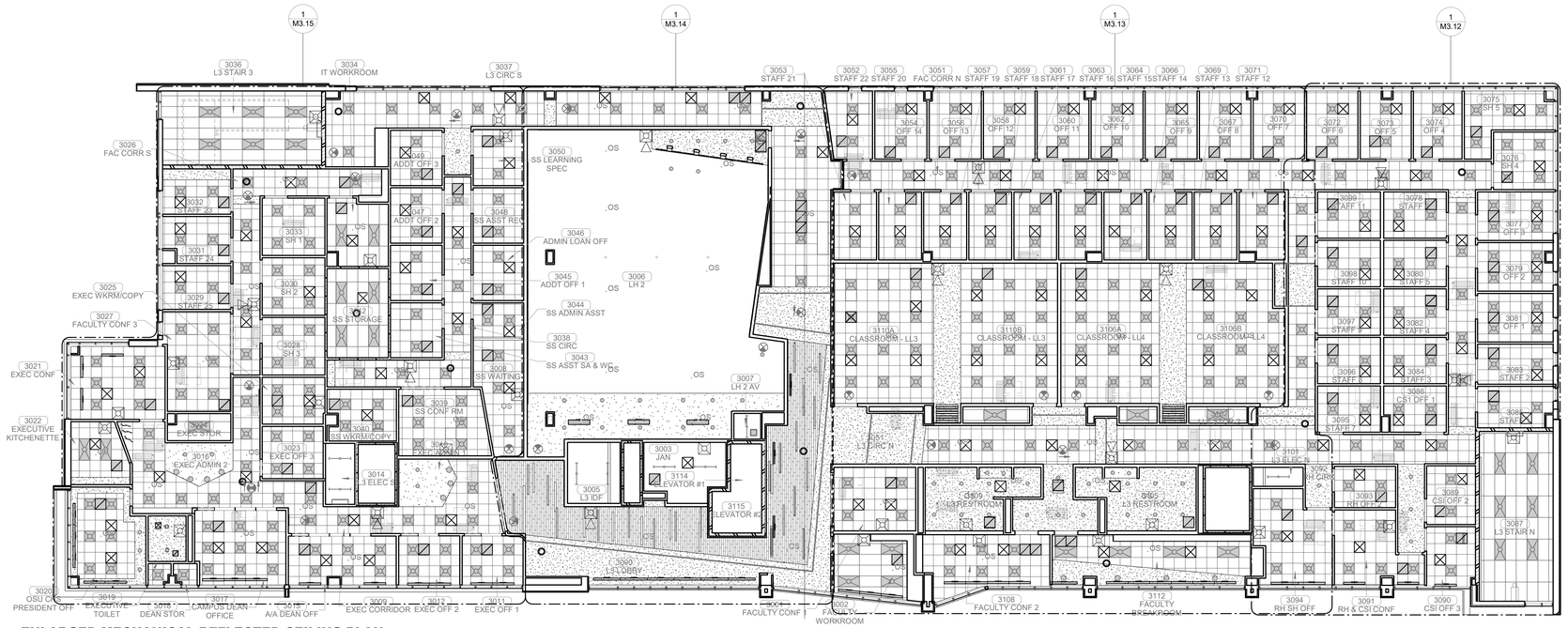
JOB NUMBER: 17-13

SHEET NUMBER:

M3.10

ENLARGED MECHANICAL REFLECTED CEILING PLAN LEVEL 02 SECTOR 02



PLAN NORTH

TRUE NORTH

1 ENLARGED MECHANICAL REFLECTED CEILING PLAN
LEVEL 03
3/32" = 1'-0"

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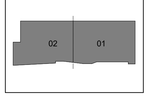

PROJECT PHASE:

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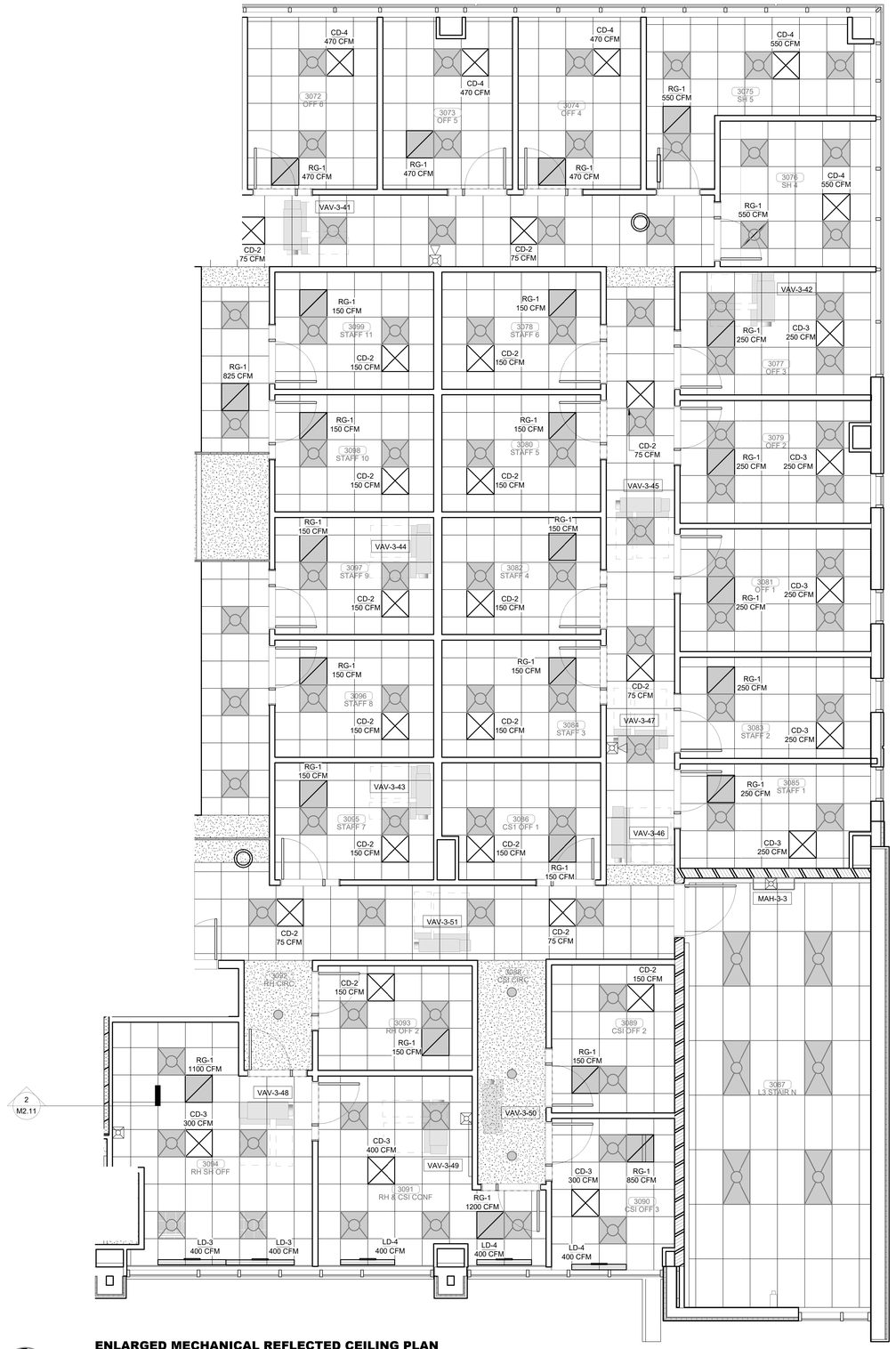
07-26-19	17-13

SHEET NUMBER:

M3.11

OVERALL MECHANICAL REFLECTED CEILING PLAN LEVEL 03



PLAN NORTH

TRUE NORTH

1 ENLARGED MECHANICAL REFLECTED CEILING PLAN
LEVEL 03
1/4" = 1'-0"

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DATE:	JOB NUMBER:
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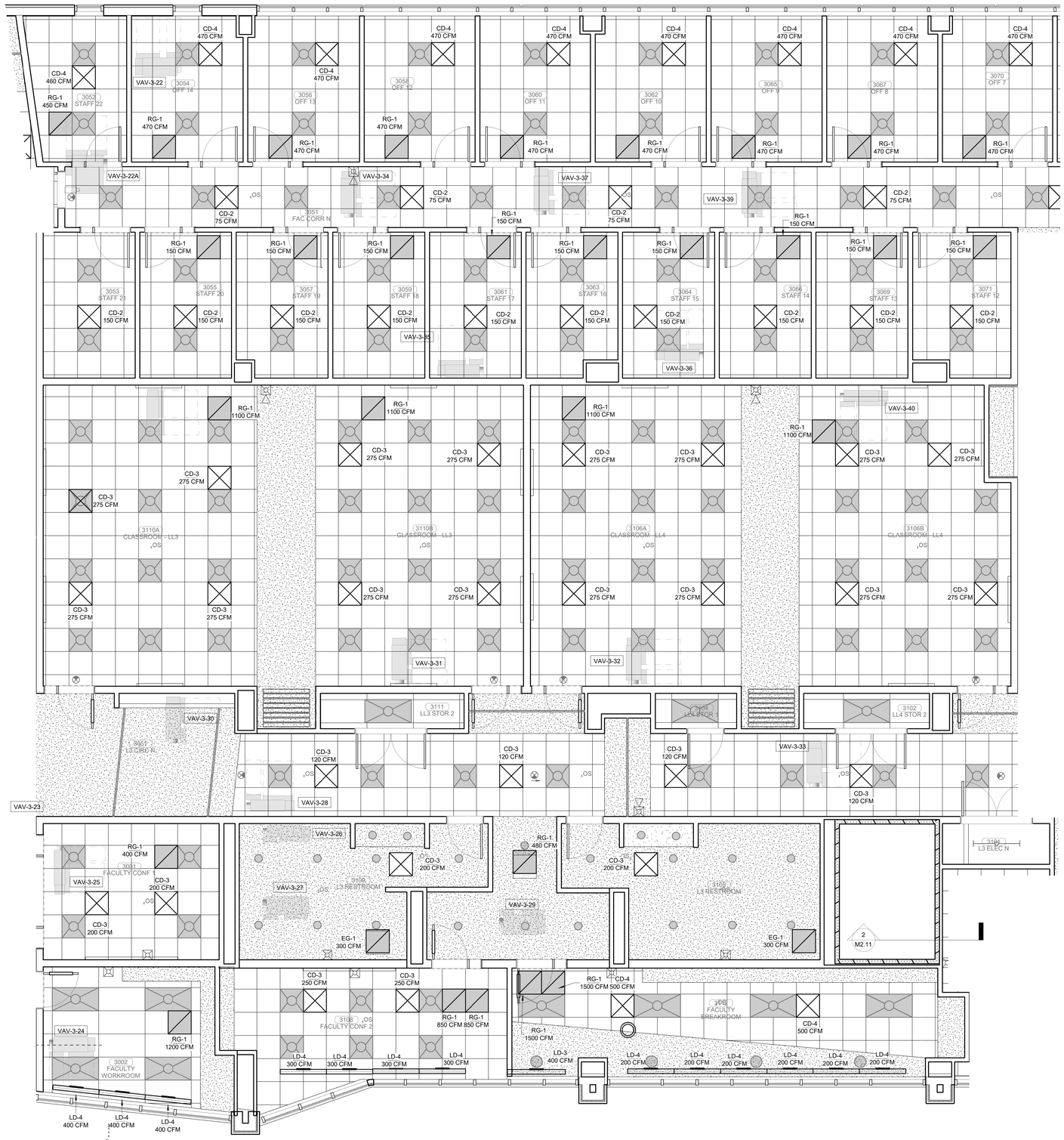
SHEET NUMBER:

M3.12

ENLARGED MECHANICAL REFLECTED CEILING PLAN LEVEL 03 SECTOR 01



1 ENLARGED MECHANICAL REFLECTED CEILING PLAN
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PLAN NORTH

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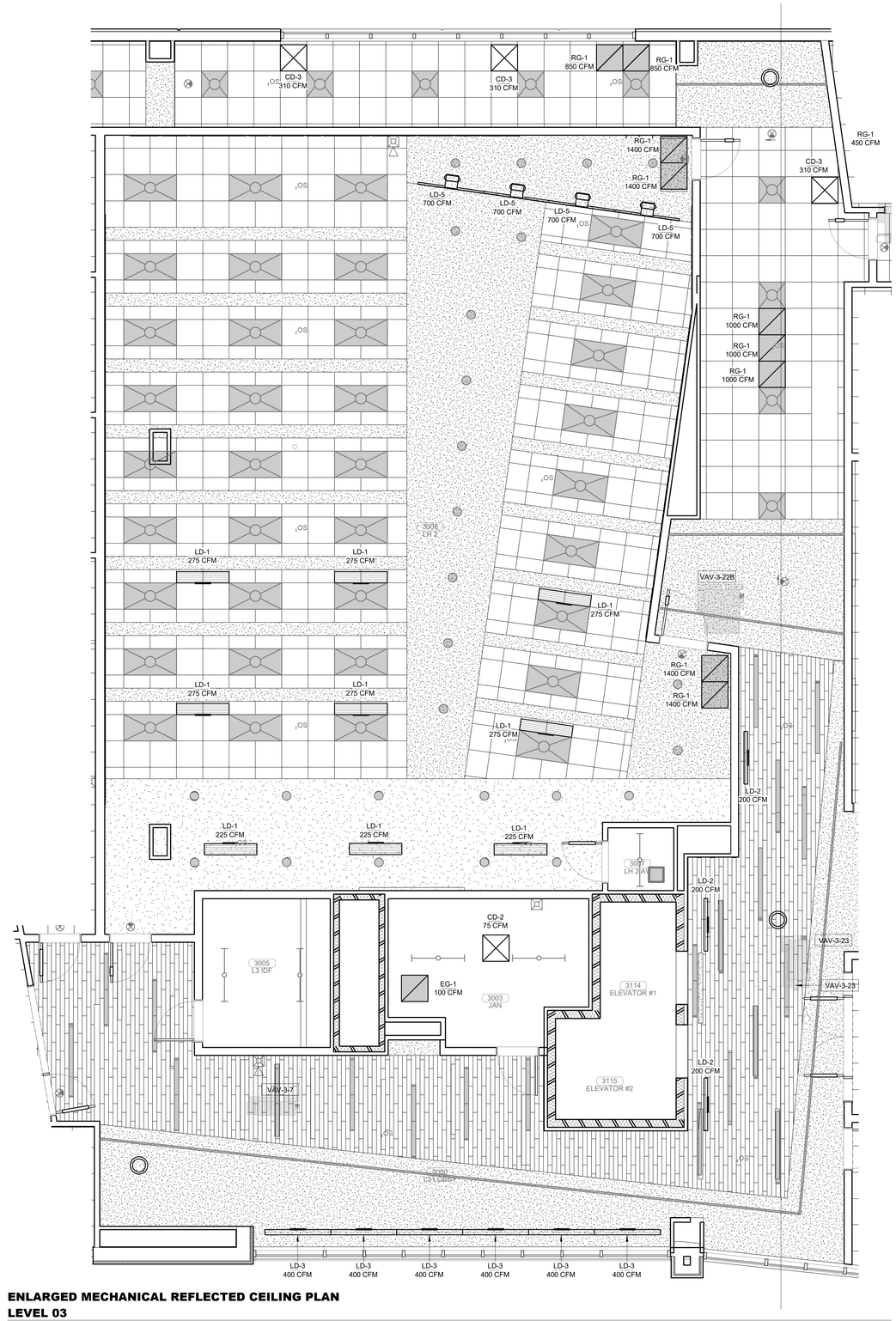
M3.13

ENLARGED MECHANICAL REFLECTED CEILING PLAN LEVEL 03 SECTOR 01



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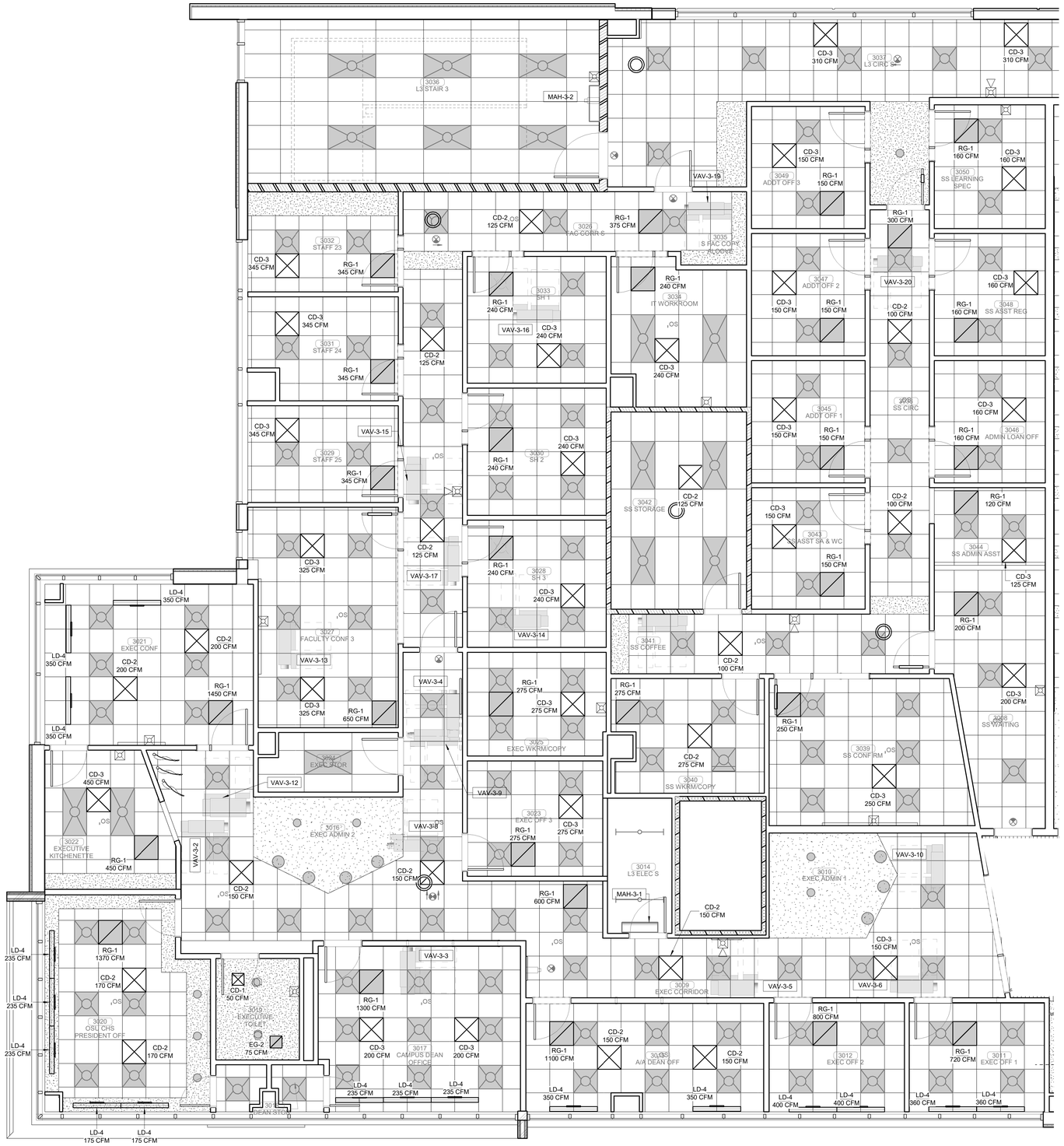
DATE: 07-26-19

JOB NUMBER: 17-13

SHEET NUMBER:

M3.14

ENLARGED MECHANICAL REFLECTED CEILING PLAN LEVEL 03 SECTOR 02



PLAN NORTH

TRUE NORTH

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LEVEL 03
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#	DATE	DESCRIPTION

DATE:	JOB NUMBER:
07-26-19	17-13

SHEET NUMBER:

M3.15

ENLARGED MECHANICAL REFLECTED CEILING PLAN LEVEL 03 SECTOR 02

1. APC AR3150 NETWORK ENCLOSURES EQUIPPED AS FOLLOWS
(2) AR8865 RACK MOUNT PDU'S L21-20 INPUT (36)C13, (6)C19, (2) L5-20 MOUNTED REAR LEFT SIDE
(1) AP7721 CABLE MANAGER MOUNTED REAR RIGHT SIDE
(1) RACK AIR CONTAINMENT SYSTEM
*FILL 4 CABINETS COMPLET WITH BLANKING PANELS

2. APC IN ROW DX ACRD300 COUPLED WITH RACK AIR CONTAINMENT SYSTEM

3. PDU POWER WAVE 2 BUSSWAY 250A 208V 3PHASE WITH HANGARS FOR 1/2" ROD
(4) BUSSWAY TAP OFF UNITS PER BUSS RUN EACH WITH
(2)30 3 POLE BREAKERS & (2) L21-30R RECTICLES

4. APC AR3150 NETWORK ENCLOSURES EQUIPPED AS FOLLOWS
(2) AR8865 RACK MOUNT PDU'S L21-20 INPUT (36)C13, (6)C19, (2) L5-20 MOUNTED REAR LEFT SIDE
(1) AP7721 CABLE MANAGER MOUNTED REAR RIGHT SIDE
*FILL 1.5 CABINETS COMPLET WITH BLANKING PANELS

5. APC IN ROW DX ACRD300

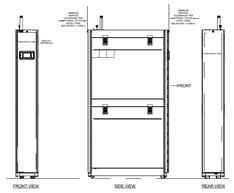
6. APC AR3100 I.T. ENCLOSURES EQUIPPED AS FOLLOWS
(2) AR8865 RACK MOUNT PDU'S L21-20 INPUT (36)C13, (6)C19, (2) L5-20 MOUNTED REAR LEFT SIDE
(1) AP7721 CABLE MANAGER MOUNTED REAR RIGHT SIDE
*FILL 1 CABINETS COMPLET WITH BLANKING PANELS

INDOOR UNITS ARE TO BE SUPPLIED WITH INTEGRAL CONDENSATE PUMPS. (TYP ALL)

POWER CONNECTIONS

SKU	Voltage	Frequency	65 kAIC	Power Feed	Number of Fan Power Supplies	Drainage System	Airflow Pattern
ACRD300	220 V	50 Hz	No	Dual feed	1	Condensate pump	Rear to front
ACRD300D	220 V	50 Hz	No	Dual feed	2	Condensate pump	Rear to front
ACRD300G	220 V	50 Hz	No	Dual feed	1	Gravity drain	Rear to front
ACRD300GD	220 V	50 Hz	No	Dual feed	2	Gravity drain	Rear to front
ACRD301	100–120 V* / 200–240 V	50/60 Hz	Yes	Dual feed	1	Condensate pump	Rear to front
ACRD301G	100–120 V* / 200–240 V	50/60 Hz	Yes	Dual feed	1	Gravity drain	Rear to front

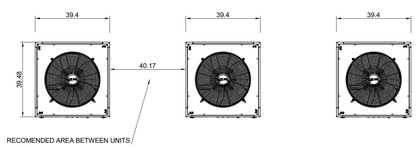
*Configure proper voltage before applying power to the cooling unit.



Air System—Fan	
Fan Type	EC
Size – mm (in.)	710 (28.0)
Number of Fans	1
Cooling Coil	3.024 (32.55)
Face Area – m² (ft²)	3
Rows Deep	
Connection Sizes (Not Piping Sizes)	7/8 in. ODF
Gas Piping	1/2 in. ODF
Liquid Piping	
Refrigerant Piping*	120 (393)
Maximum Equivalent Length – m (ft)	30 (98)
Maximum Elevation** – m (ft)	
*See the Installation Manual for more information.	
**Condensing units may be level with or higher than the indoor unit. See the *Installation Manual* for more information on refrigerant piping.	

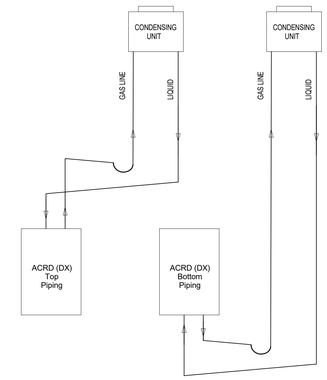
Electrical Data

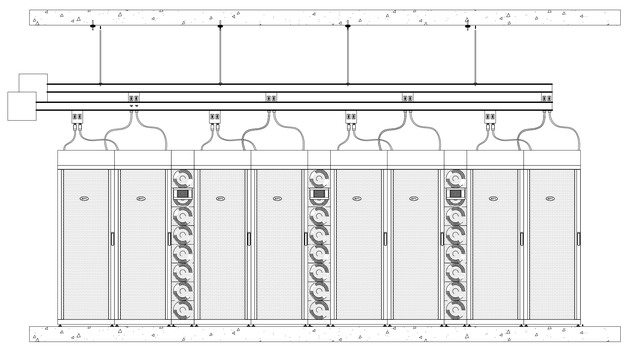
Model	MCA	MOP	FLA
ACCU30301	n/a	n/a	15.8
ACCU30302	n/a	n/a	15.8
ACCU30001	50.05	80	n/a
ACCU30002	50.05	80	n/a
ACCU30101	23.1	40	n/a
ACCU30102	23.1	40	n/a
ACCU30201	n/a	n/a	15.8
ACCU30202	n/a	n/a	15.8

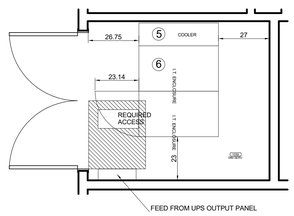


Piping Diagram

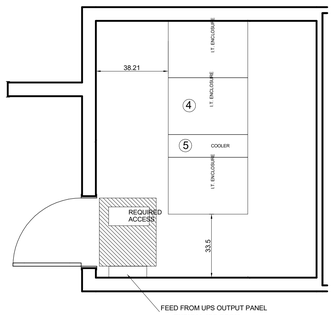
Air-Cooled Condenser must be located at the same level or above the ACRD unit.



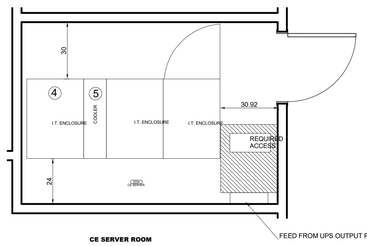




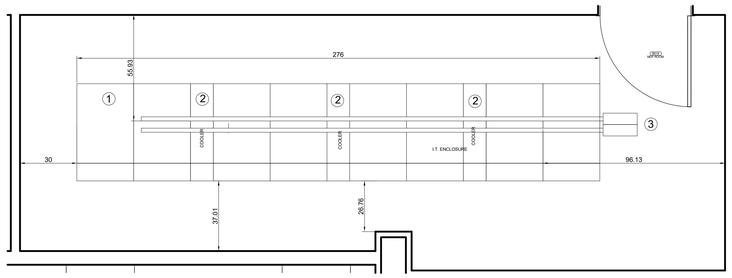
SIM SERVER ROOM



TYPICAL IDF ROOM



CE SERVER ROOM



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CLIENT:

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TAHLEQUAH, OKLAHOMA

KEY PLAN:
02 01

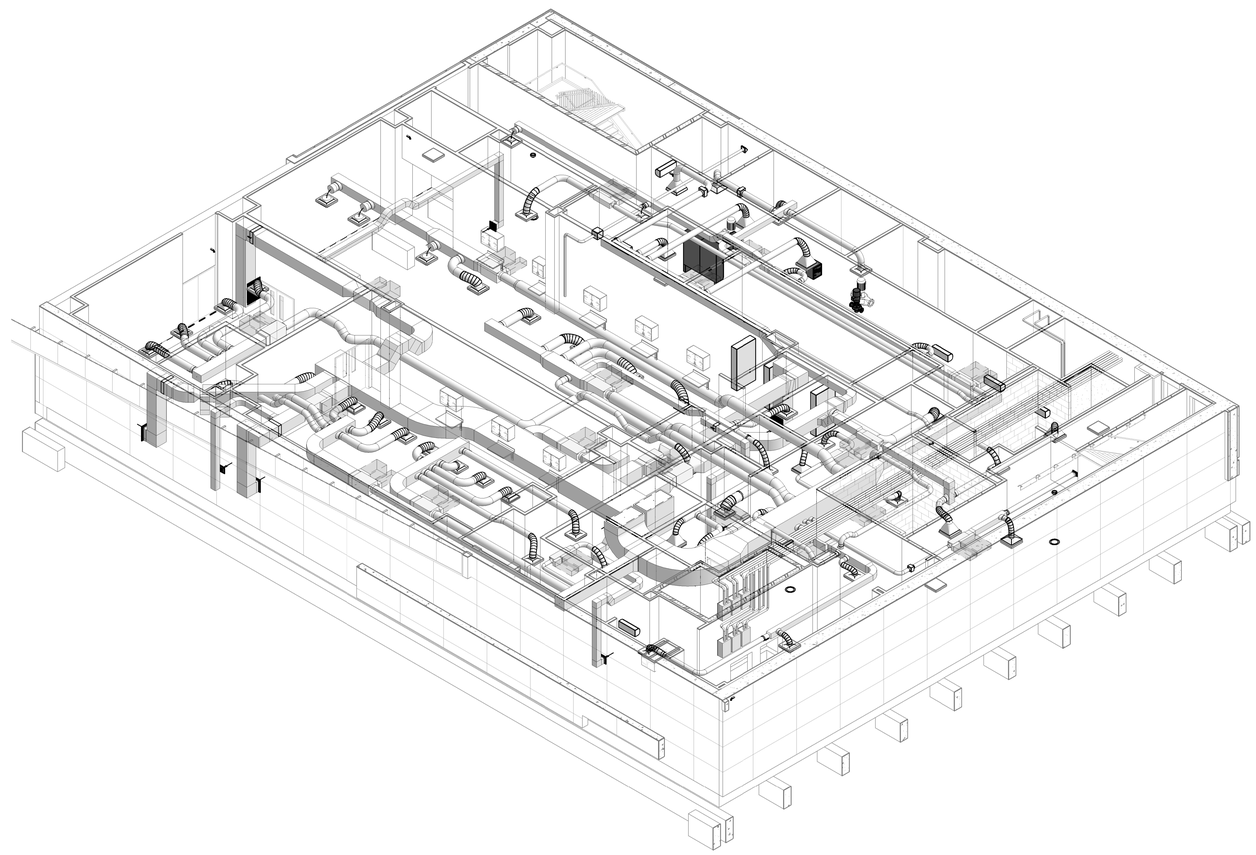
PROJECT PHASE:
95% CONSTRUCTION DOCUMENTS

REVISIONS

#	DATE	DESCRIPTION

DATE: 07-26-19
JOB NUMBER: 17-13
SHEET NUMBER: M4.00

IT ROOM MECHANICAL PLAN



1 MECHANICAL ANXONOMETRICS PLAN BASEMENT

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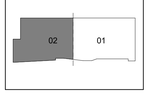

PROJECT PHASE:

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REVISIONS

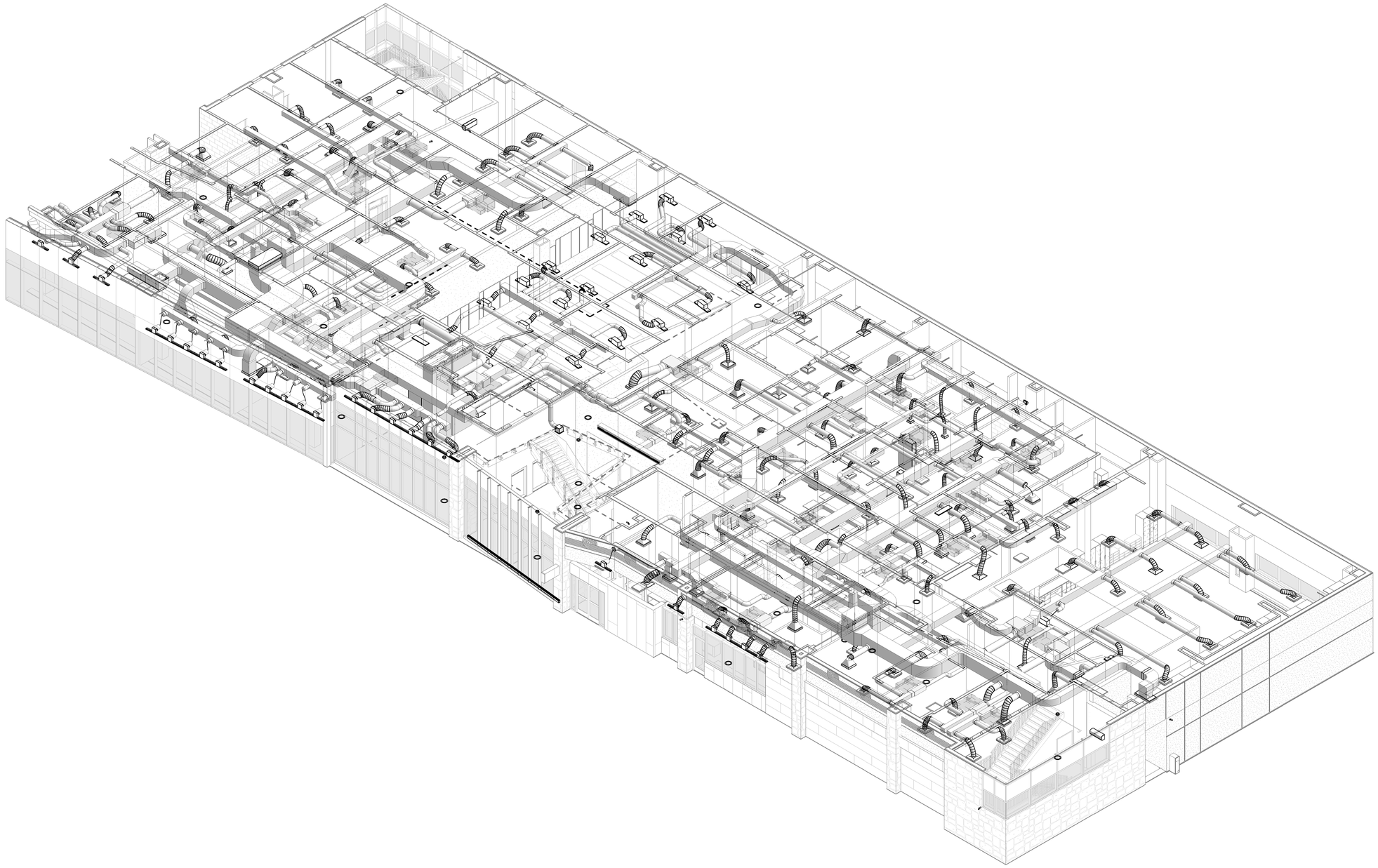
#	DATE	DESCRIPTION

DATE:	JOB NUMBER:
07-26-19	17-13

SHEET NUMBER:

M5.00

MECHANICAL ANXONOMETRIC PLAN BASEMENT



1 **MECHANICAL ANXONOMETRICS PLAN LEVEL 01**

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REVISIONS

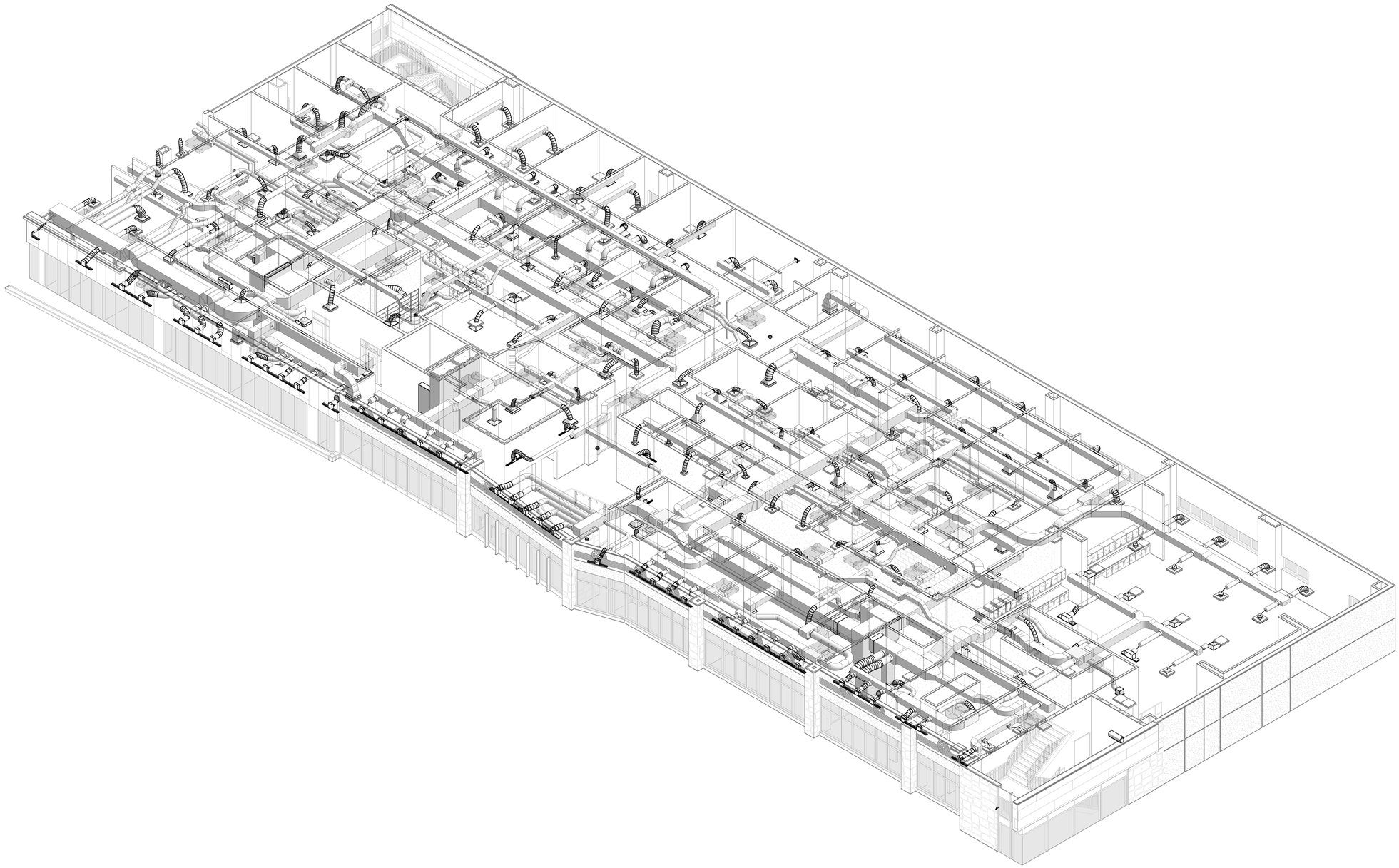
#	DATE	DESCRIPTION

DATE:	JOB NUMBER:
07-26-19	17-13

SHEET NUMBER:

M5.01

MECHANICAL ANXONOMETRIC PLAN LEVEL 01



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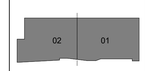

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#	DATE	DESCRIPTION

DATE:	JOB NUMBER:
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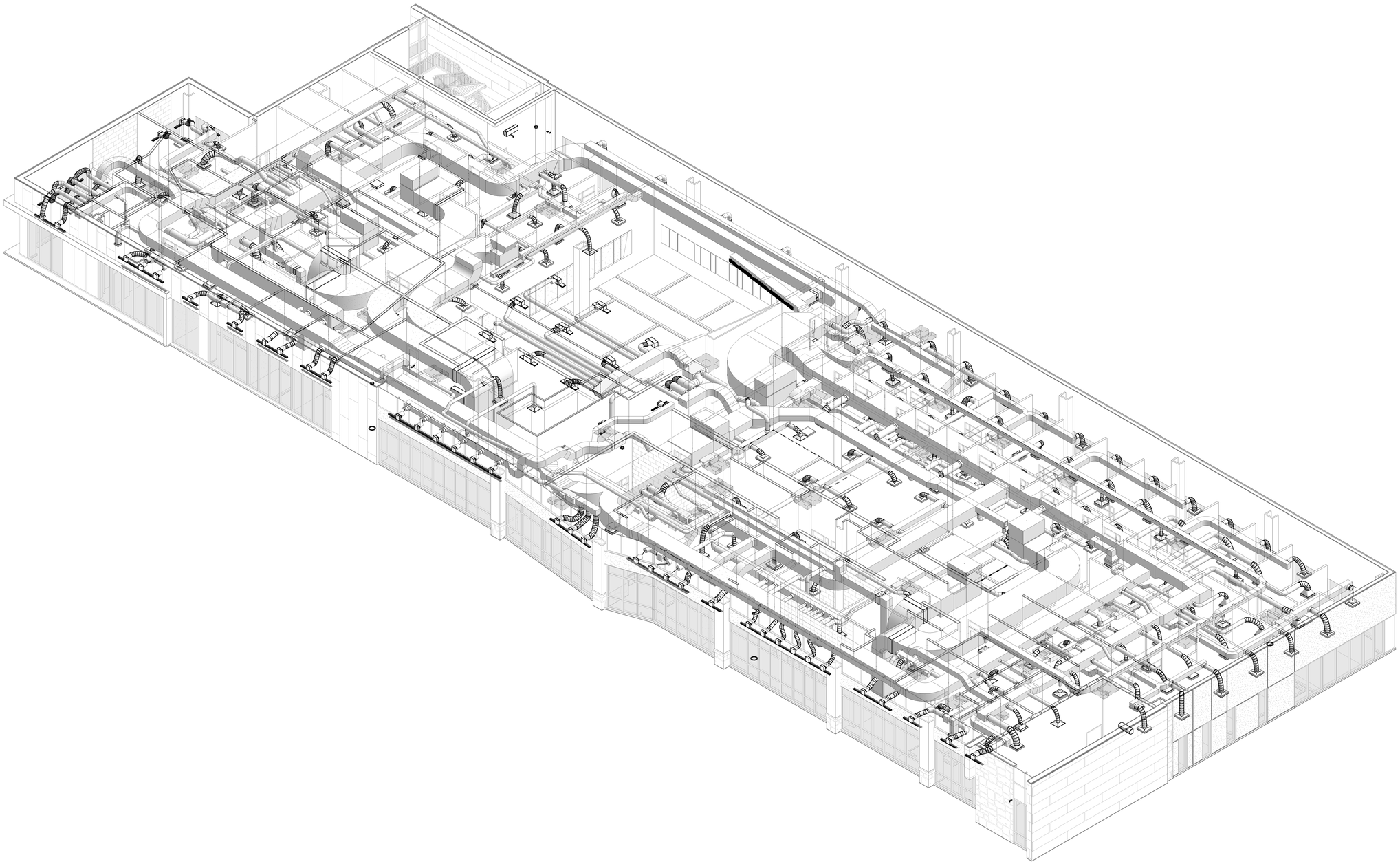
SHEET NUMBER:

M5.02

MECHANICAL ANXONOMETRIC PLAN LEVEL 02



1 MECHANICAL ANXONOMETRICS PLAN LEVEL 03

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KEY PLAN:

02 | 01

PROJECT PHASE:

95% CONSTRUCTION DOCUMENTS

REVISIONS

#	DATE	DESCRIPTION

DATE:	JOB NUMBER:
07-26-19	17-13

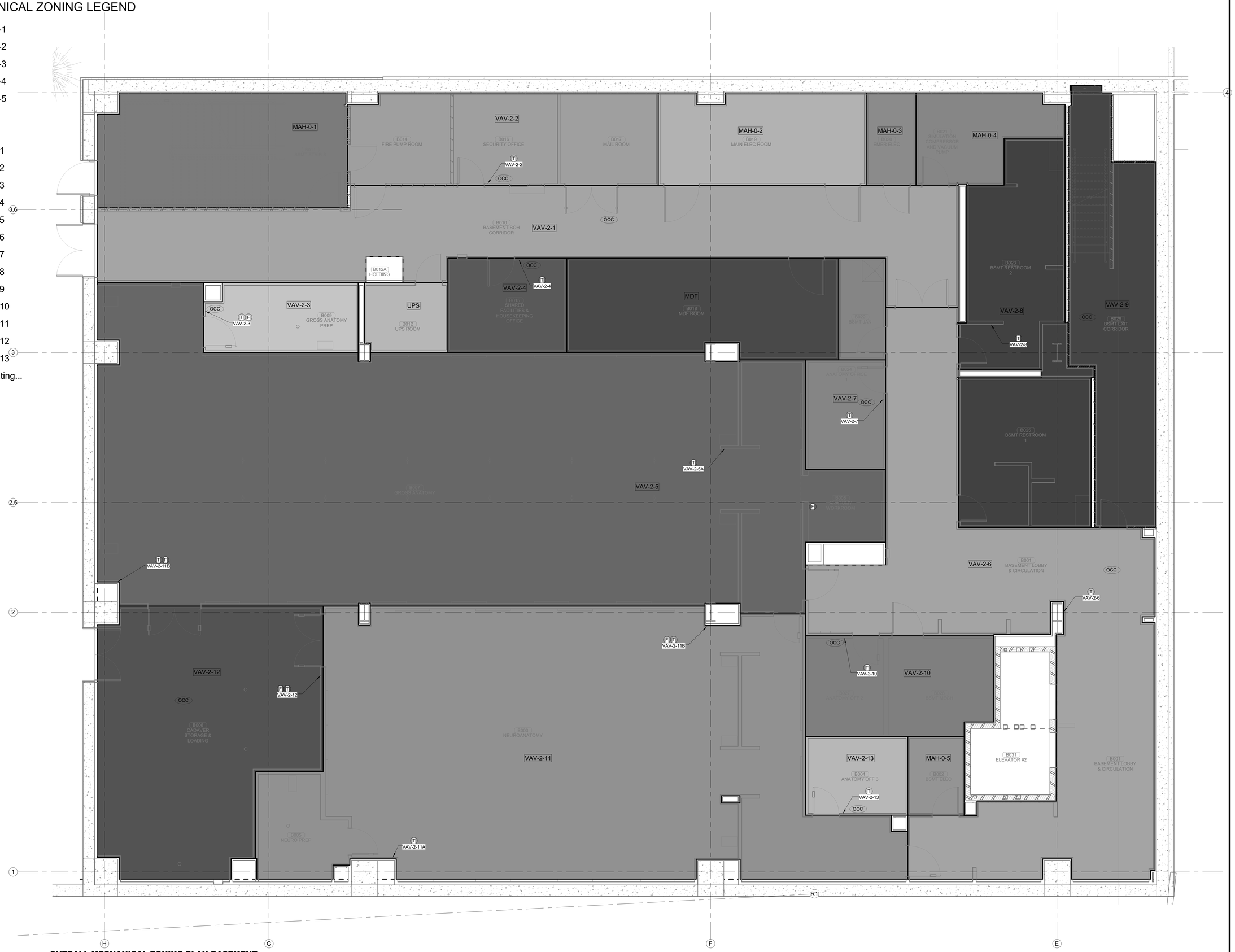
SHEET NUMBER:

M5.03

MECHANICAL AXONOMETRIC PLAN LEVEL 03

MECHANICAL ZONING LEGEND

- MAH-0-1
- MAH-0-2
- MAH-0-3
- MAH-0-4
- MAH-0-5
- MDF
- UPS
- VAV-2-1
- VAV-2-2
- VAV-2-3
- VAV-2-4
- VAV-2-5
- VAV-2-6
- VAV-2-7
- VAV-2-8
- VAV-2-9
- VAV-2-10
- VAV-2-11
- VAV-2-12
- VAV-2-13
- Calculating...



PLAN NORTH

TRUE NORTH

1 OVERALL MECHANICAL ZONING PLAN BASEMENT LEVEL

1/4" = 1'-0"

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REVISIONS

#	DATE	DESCRIPTION

DATE:	JOB NUMBER:
07-26-19	17-13

SHEET NUMBER:

M6.00

MECHANICAL ZONING PLAN BASEMENT LEVEL

MECHANICAL ZONING LEGEND

IDF-1	VAV-1-11	VAV-4-10
MAH-1-1	VAV-1-12	VAV-4-11
MAH-1-2	VAV-1-13	VAV-4-12
MAH-1-3	VAV-1-14	VAV-4-13
SIM SERV	VAV-1-15	VAV-4-14
VAV-1-1	VAV-4-1	VAV-4-15
VAV-1-2	VAV-4-2	VAV-4-16
VAV-1-3	VAV-4-3	VAV-4-17A
VAV-1-4	VAV-4-4	VAV-4-17B
VAV-1-5	VAV-4-5	VAV-4-18
VAV-1-6	VAV-4-6	VAV-4-19
VAV-1-8	VAV-4-7	VAV-4-20
VAV-1-9	VAV-4-8	VAV-4-21
VAV-1-10	VAV-4-9	VAV-4-22

Calculating...

PLAN NORTH

TRUE NORTH

1 OVERALL MECHANICAL ZONING PLAN LEVEL 01

1/8" = 1'-0"

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PROJECT PHASE:

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REVISIONS		
#	DATE	DESCRIPTION

DATE: 07-26-19

JOB NUMBER: 17-13

SHEET NUMBER: M6.01

MECHANICAL ZONING PLAN LEVEL 01

MECHANICAL ZONING LEGEND

CE SERV	VAV-1-29	VAV-4-24	Calculating...
IDF-2	VAV-1-30	VAV-4-25	
MAH-2-1	VAV-1-31	VAV-4-26	
MAH-2-2	VAV-1-33	VAV-4-27	
MAH-2-3	VAV-1-34	VAV-4-28	
VAV-1-16	VAV-1-35	VAV-4-29	
VAV-1-17	VAV-1-36	VAV-4-30	
VAV-1-18	VAV-1-37	VAV-4-31	
VAV-1-19	VAV-1-38	VAV-4-32	
VAV-1-20	VAV-1-39	VAV-4-33	
VAV-1-21	VAV-1-40	VAV-4-34	
VAV-1-22	VAV-1-41	VAV-4-35	
VAV-1-23	VAV-1-42	VAV-4-36	
VAV-1-24	VAV-1-43	VAV-4-37	
VAV-1-25	VAV-1-44	VAV-4-38	
VAV-1-26	VAV-1-45	VAV-4-39	
VAV-1-27	VAV-1-46	VAV-4-40	
VAV-1-28	VAV-4-23	VAV-4-41	

PLAN NORTH

TRUE NORTH

1 OVERALL MECHANICAL ZONING PLAN LEVEL 02

1/8" = 1'-0"

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KEY PLAN:

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M6.02

MECHANICAL ZONING PLAN LEVEL 02

MECHANICAL ZONING LEGEND

IDF-3	VAV-3-16	VAV-3-35
MAH-3-1	VAV-3-17	VAV-3-36
MAH-3-2	VAV-3-18	VAV-3-37
MAH-3-3	VAV-3-19	VAV-3-38
VAV-3-1	VAV-3-20	VAV-3-39
VAV-3-2	VAV-3-21	VAV-3-40
VAV-3-3	VAV-3-22	VAV-3-41
VAV-3-4	VAV-3-23	VAV-3-42
VAV-3-5	VAV-3-24	VAV-3-43
VAV-3-6	VAV-3-25	VAV-3-44
VAV-3-7	VAV-3-26	VAV-3-45
VAV-3-8	VAV-3-27	VAV-3-46
VAV-3-9	VAV-3-28	VAV-3-47
VAV-3-10	VAV-3-29	VAV-3-48
VAV-3-11	VAV-3-30	VAV-3-49
VAV-3-12	VAV-3-31	VAV-3-50
VAV-3-13	VAV-3-32	VAV-3-51
VAV-3-14	VAV-3-33	Calculating...
VAV-3-15	VAV-3-34	

PLAN NORTH

TRUE NORTH

1 OVERALL MECHANICAL ZONING PLAN LEVEL 03

1/8" = 1'-0"

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MECHANICAL ZONING PLAN LEVEL 03

KEYNOTES

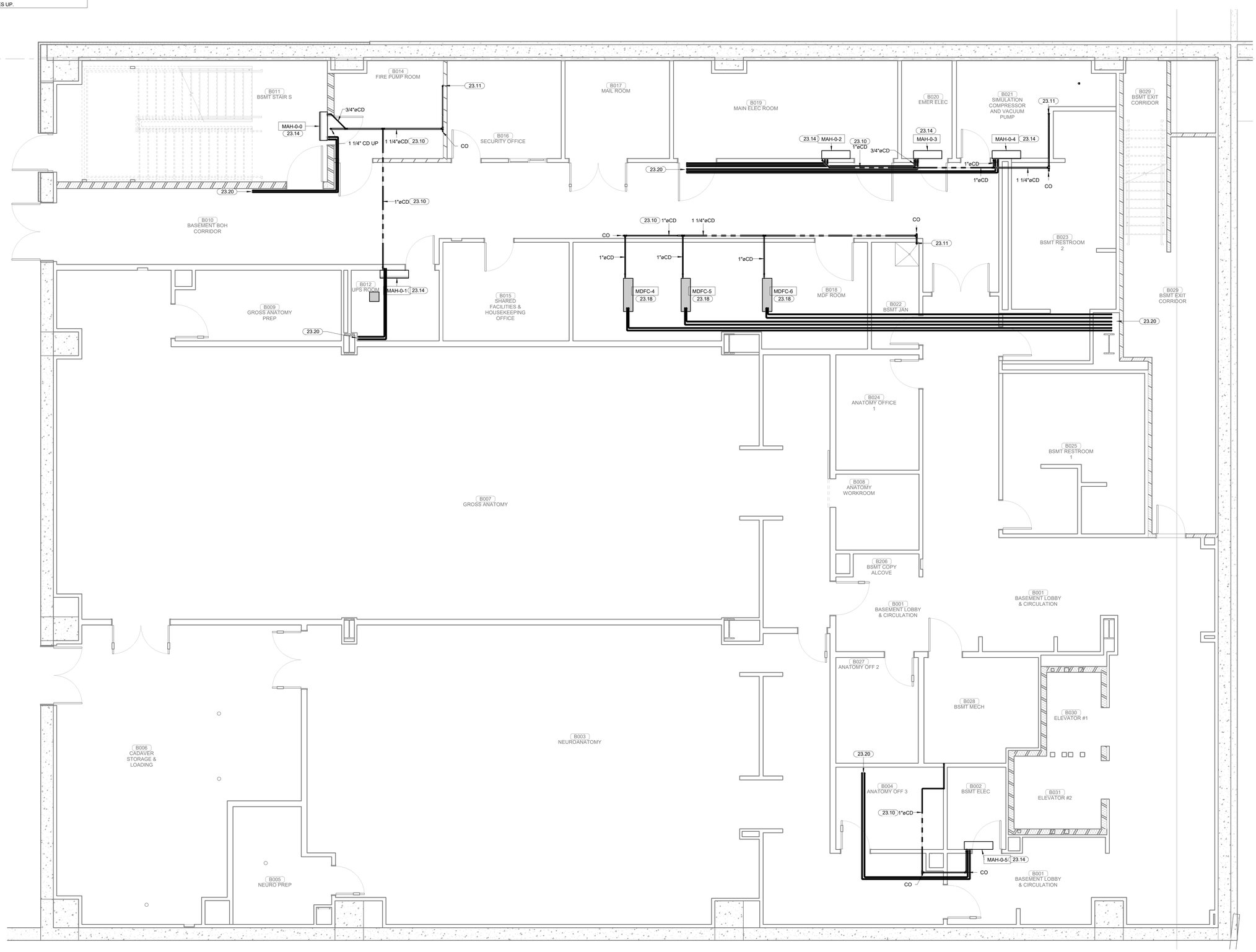
23.10 ROUTE PIPE ABOVE CEILING. ROUTE A MINIMUM OF 1/8" / 100FT OF PIPE.

23.11 PIPE DOWN ALONG WALL TO APPROVED DRAIN FIXTURE.

23.14 PROVIDE UNIT WITH CONDENSATE PUMP, MICRO-V BY ASPEN PUMPS OR EQUAL.

23.18 ROUTING SHOWN INSIDE ROOM FOR THIS UNIT IS DIAGRAMATIC IN NATURE REFER TO MANUFACTURER'S INSTRUCTIONS FOR FINAL INSTALLATION AND SIZING OF CONDENSATE PIPE AND REFRIGERANT LINES.

23.20 REFRIGERANT LINES UP.



1 OVERALL MECHANICAL PLAN BASEMENT LEVEL
1/4" = 1'-0"

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KEY PLAN:

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#	DATE	DESCRIPTION

DATE: 07-26-19

JOB NUMBER: 17-13

SHEET NUMBER:

M7.00

MECHANICAL PIPING PLAN BASEMENT LEVEL

KEYNOTES

23.09 ROUTE CONDENSATE LINE DOWN ALONG EXTERIOR WALL TO GREEN AREA. SEAL PIPE PENETRATION IN ACCORDANCE WITH ARCHITECTURAL SPECIFICATIONS. CONTRACTOR TO COORDINATE FINAL CONDENSATE DRAIN DISCHARGE WITH LOCAL CODES.

23.10 ROUTE PIPE ABOVE CEILING. ROUTE A MINIMUM OF 1/8" / 100FT OF PIPE.

23.11 PIPE DOWN ALONG WALL TO APPROVED DRAIN FIXTURE.

23.13

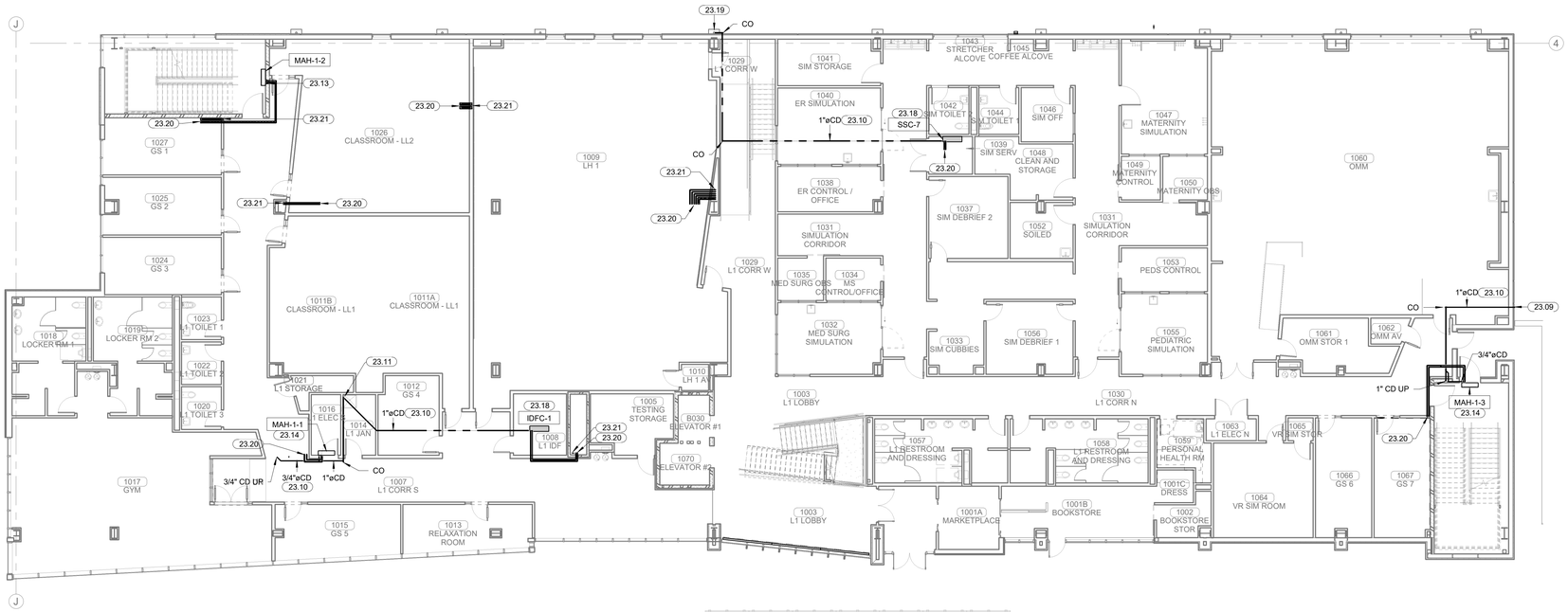
23.14 PROVIDE UNIT WITH CONDENSATE PUMP, MICRO-V BY ASPEN PUMPS OR EQUAL.

23.18 ROUTING SHOWN INSIDE ROOM FOR THIS UNIT IS DIAGRAMATIC IN NATURE.REFER TO MANUFACTURER'S INSTRUCTIONS FOR FINAL INSTALLATION AND SIZING OF CONDENSATE PIPE AND REFRIGERANT LINES.

23.19 ROUTE CONDENSATE PIPE OUTSIDE AND CONNECT TO RAIN DOWNSPOUT. MAKE ALL PROVISION FOR THIS CONNECTION. SEAL PIPE PENETRATION IN ACCORDANCE WITH ARCHITECTURAL SPECIFICATIONS. CONTRACTOR TO COORDINATE FINAL CONDENSATE DISCHARGE WITH LOCAL CODES.

23.20 REFRIGERANT LINES UP.

23.21 REFRIGERANT LINES FROM BELOW.



1 OVERALL MECHANICAL PLAN LEVEL 01
3/32" = 1'-0"

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#	DATE	DESCRIPTION

DATE:	JOB NUMBER:
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MECHANICAL PIPING PLAN LEVEL 01

KEYNOTES

23.09 ROUTE CONDENSATE LINE DOWN ALONG EXTERIOR WALL TO GREEN AREA. SEAL PIPE PENETRATION IN ACCORDANCE WITH ARCHITECTURAL SPECIFICATIONS. CONTRACTOR TO COORDINATE FINAL CONDENSATE DRAIN DISCHARGE WITH LOCAL CODES.

23.10 ROUTE PIPE ABOVE CEILING. ROUTE A MINIMUM OF 1/8" / 100FT OF PIPE.

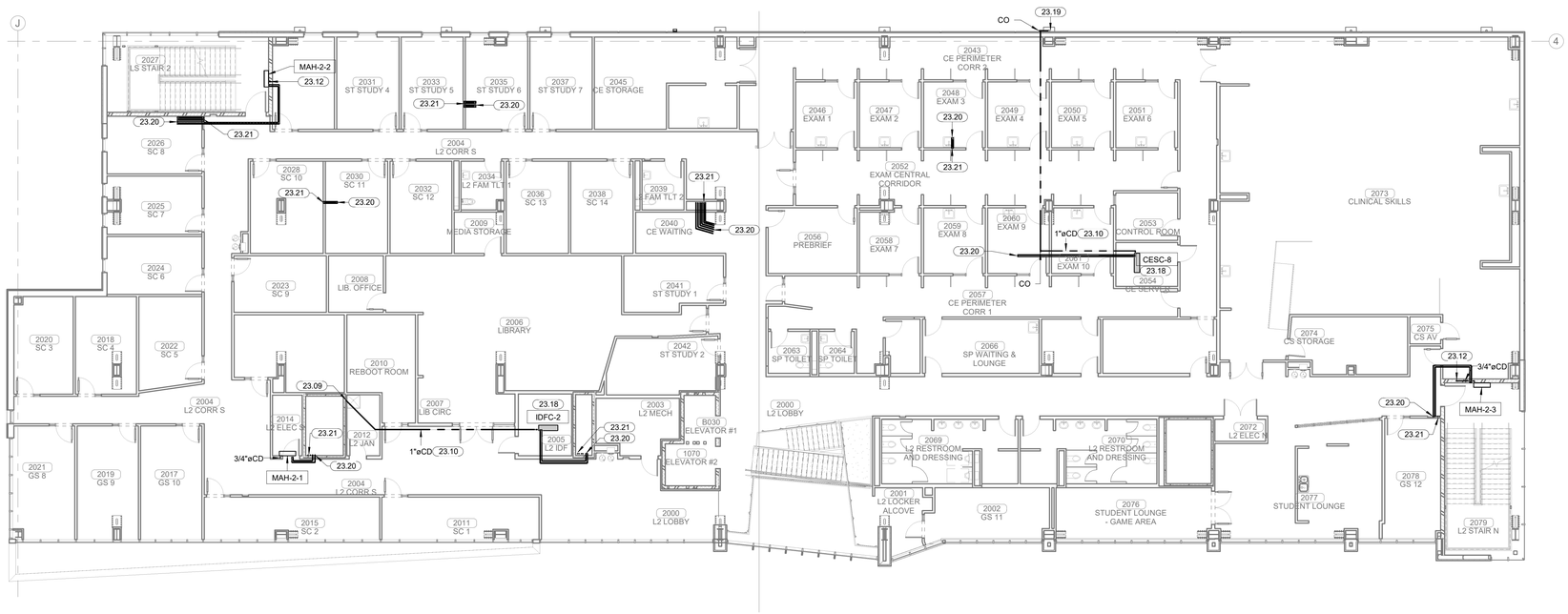
23.12 3/4" CONDENSATE PIPE UP, 1" CONDENSATE PIPE DOWN.

23.18 ROUTING SHOWN INSIDE ROOM FOR THIS UNIT IS DIAGRAMATIC IN NATURE.REFER TO MANUFACTURER'S INSTRUCTIONS FOR FINAL INSTALLATION AND SIZING OF CONDENSATE PIPE AND REFRIGERANT LINES.

23.19 ROUTE CONDENSATE PIPE OUTSIDE AND CONNECT TO RAIN DOWNSPOUT. MAKE ALL PROVISION FOR THIS CONNECTION. SEAL PIPE PENETRATION IN ACCORDANCE WITH ARCHITECTURAL SPECIFICATIONS. CONTRACTOR TO COORDINATE FINAL CONDENSATE DISCHARGE WITH LOCAL CODES.

23.20 REFRIGERANT LINES UP.

23.21 REFRIGERANT LINES FROM BELOW.



1 OVERALL MECHANICAL PLAN LEVEL 02
3/32" = 1'-0"

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Fort Smith, AR 72901
479-783-2480
www.childersarchitect.com

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PROJECT NO. 18163R

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CLIENT:

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AT THE CHEROKEE NATION
TAHLEQUAH, OKLAHOMA

KEY PLAN:

02 | 01

PROJECT PHASE:

95% CONSTRUCTION DOCUMENTS

REVISIONS:

#	DATE	DESCRIPTION

DATE:	JOB NUMBER:
07-26-19	17-13

SHEET NUMBER:

M7.02

MECHANICAL PIPING PLAN LEVEL 02

KEYNOTES

23.08 EXTEND PIPE ABOVE CEILING AND LEAVE OPEN TO ATMOSPHERE.

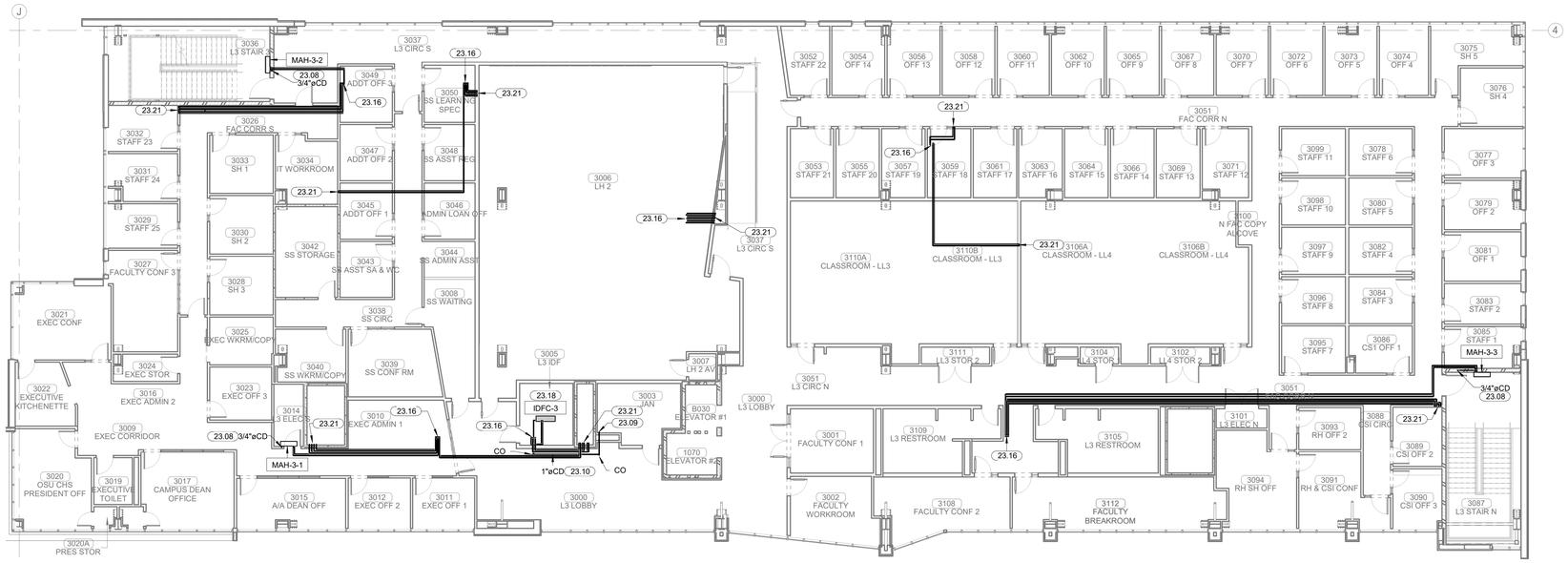
23.09 ROUTE CONDENSATE LINE DOWN ALONG EXTERIOR WALL TO GREEN AREA. SEAL PIPE PENETRATION IN ACCORDANCE WITH ARCHITECTURAL SPECIFICATIONS. CONTRACTOR TO COORDINATE FINAL CONDENSATE DRAIN DISCHARGE WITH LOCAL CODES.

23.10 ROUTE PIPE ABOVE CEILING. ROUTE A MINIMUM OF 1/8" / 100FT OF PIPE.

23.16 ROUTE REFRIGERANT PIPE TROUGH ROOF LINE JACK. REFER TO DETAIL 1/M1.02.

23.18 ROUTING SHOWN INSIDE ROOM FOR THIS UNIT IS DIAGRAMATIC IN NATURE.REFER TO MANUFACTURER'S INSTRUCTIONS FOR FINAL INSTALLATION AND SIZING OF CONDENSATE PIPE AND REFRIGERANT LINES.

23.21 REFRIGERANT LINES FROM BELOW.



1 OVERALL MECHANICAL PLAN LEVEL 03
3/32" = 1'-0"

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DATE:	JOB NUMBER:
07-26-19	17-13

SHEET NUMBER:

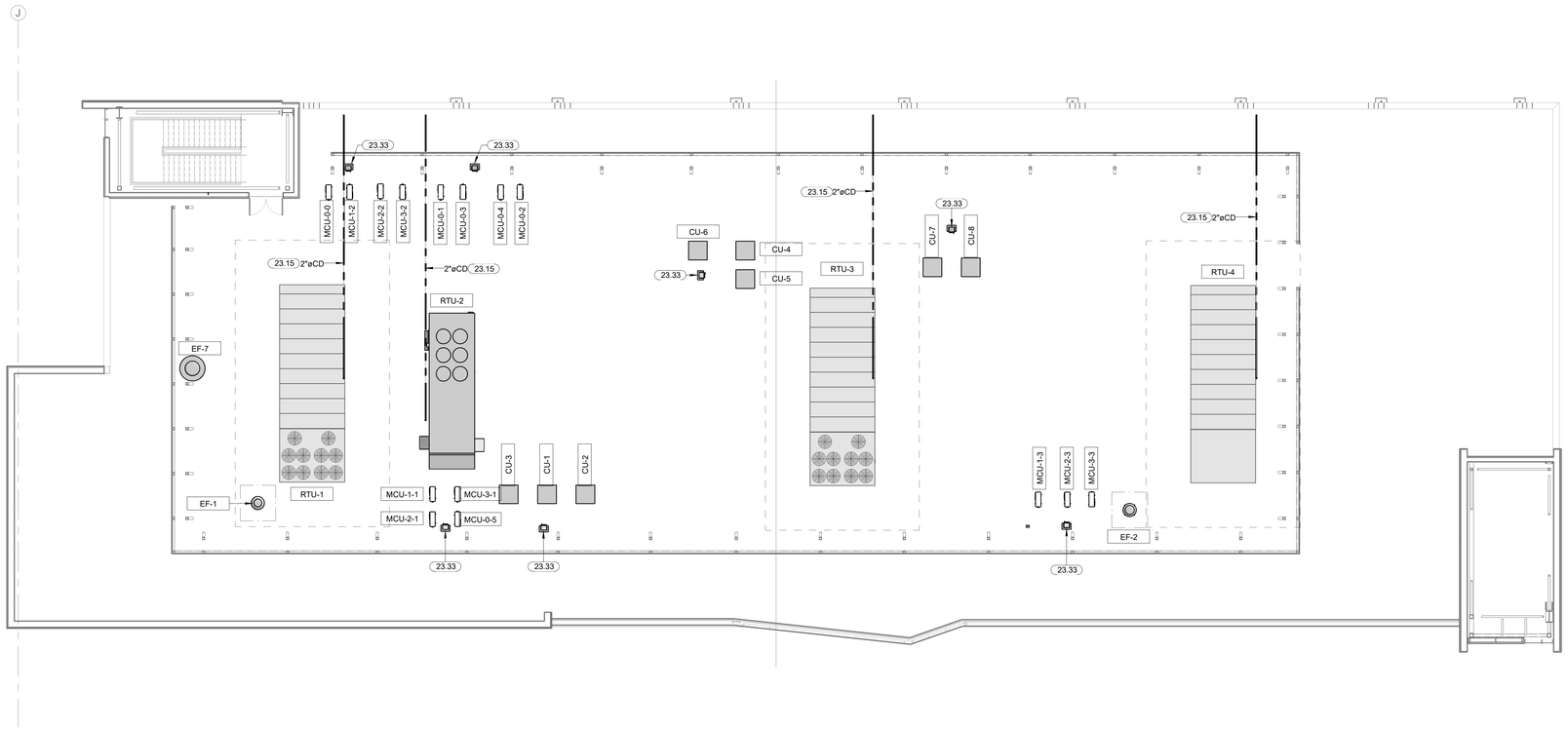
M7.03

MECHANICAL PIPING PLAN LEVEL 03

KEYNOTES

23.15 FIELD VERIFY EXACT LOCATION OF UNIT CONDENSATE DRAIN CONNECTION. ROUTE CONDENSATE LINE A MINIMUM OF 1/8" / 100FT OF PIPE. PROVIDE WITH ROOF PIPE SUPPORTS. CONTRACTOR TO COORDINATE FINAL CONDENSATE DRAIN DISCHARGE WITH LOCAL CODES.

23.33 REFRIGERANT PIPING TO BE ROUTED DN IN GOOSENECK THROUGH ROOF FROM ROOFTOP CONDENSING UNITS TO INDOOR AIR HANDLER. REFER TO DETAIL 11-M1.03. REFER TO SHEETS M7.00 THRU M7.04 FOR CONTINUATION OF REFRIGERANT PIPE ROUTING AND CONDENSATE PIPE ROUTING.



1 OVERALL MECHANICAL PLAN ROOF
3/32" = 1'-0"

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REVISIONS:

#	DATE	DESCRIPTION

DATE: 07-26-19

JOB NUMBER: 17-13

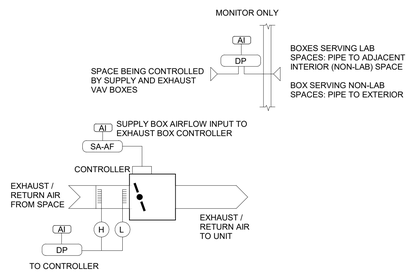
SHEET NUMBER:

M7.04

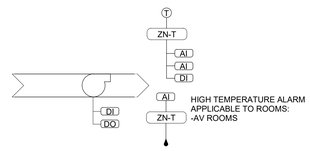
MECHANICAL PIPING PLAN ROOF

CONTROLS LEGEND

AI / AO	INPUT / OUTPUT	HWP	EXAMPLE OF ELEMENT TITLE
	COIL		AUTO-GATE VALVE
C / C	COOLING COIL		THREE-WAY GATE VALVE
E / C	ELECTRIC COIL		GATE VALVE
H / C	HEATING COIL		PIPE WELL
	FAN		SAFETY CIRCUIT
	MEDIA FILTER		TEMPERATURE
	FILTER		LOW LIMIT
	SMOKE CONTROLLER		GROUND
	HUMIDITY		REMOTE SENSOR
	DAMPER	HG / RH	HOT GAS REHEAT

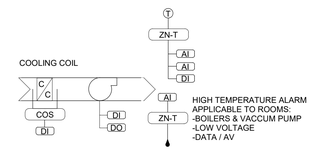


10 AIR TERMINAL UNIT - EXHAUST/RETURN
NTS

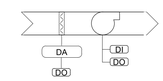


9 AV ROOM EXHAUST FAN - EF-3,4,5
NTS

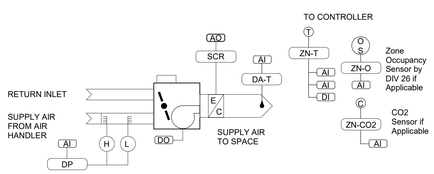
8 ELECTRIC BASEBOARD HEATER
NTS



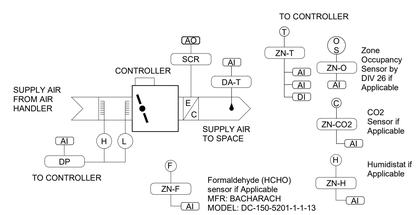
7 MINI SPLIT / IN-ROW COOLING SYSTEM
NTS



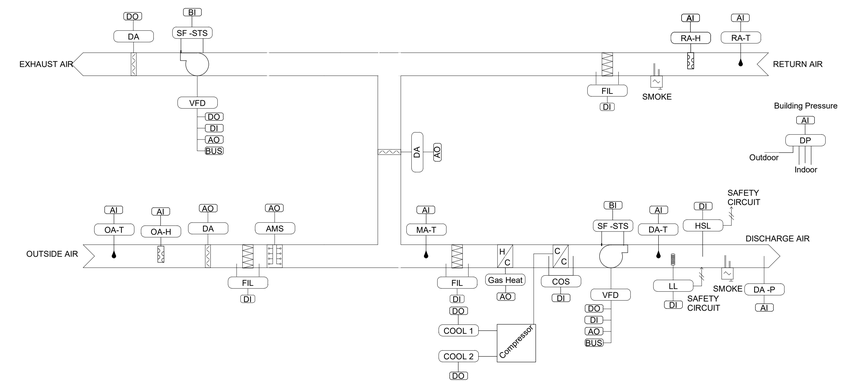
6 GENERAL EXHAUST FAN - EF-1,2
NTS



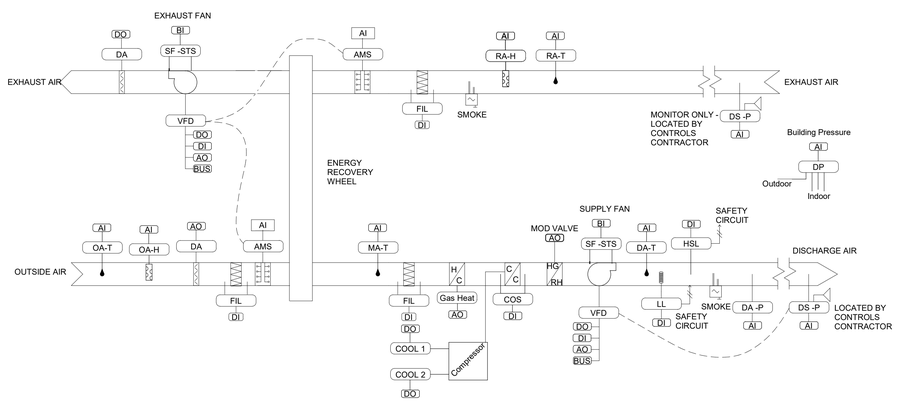
5 FAN POWERED AIR TERMINAL WITH ELECTRIC REHEAT
NTS



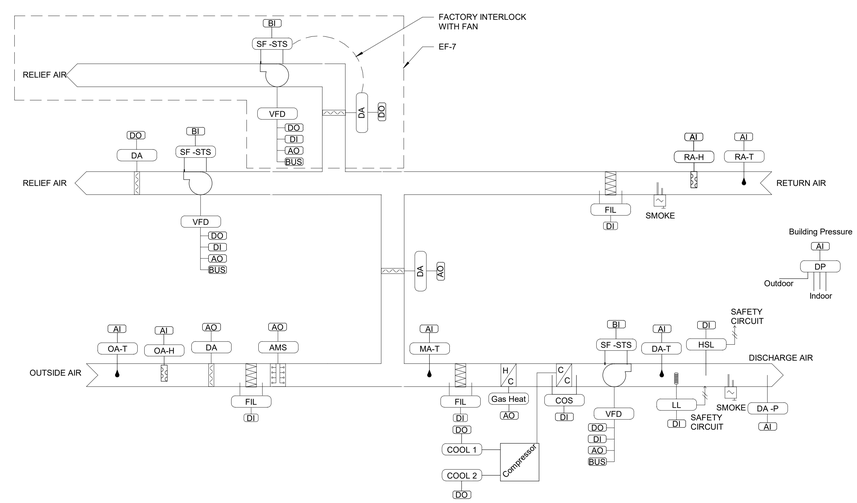
4 AIR TERMINAL UNIT WITH ELECTRIC REHEAT
NTS



3 MULTI-ZONE VAV ROOFTOP UNIT - RTU-3,4
NTS



2 DEDICATED OUTSIDE AIR ROOFTOP UNIT - RTU-2
NTS



1 MULTI-ZONE VAV ROOFTOP UNIT W/ EF-7 - RTU-1
NTS

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TAHLEQUAH, OKLAHOMA

KEY PLAN:

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PROJECT PHASE:

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REVISIONS:

#	DATE	DESCRIPTION

DATE:	JOB NUMBER:
07-26-19	17-13

SHEET NUMBER:

M8.00

MECHANICAL CONTROLS

RTU-1 SEQUENCE OF OPERATION

Building Automation System Interface:
The Building Automation System (BAS) shall send the controller Occupied Bypass, Morning Warm-up / Pre-Cool, Occupied / Unoccupied and Heat / Cool modes. If communication is lost with the BAS the controller shall operate using default modes and setpoints. The BAS shall also send the controller a duct static pressure setpoint, discharge air temperature setpoint, and ventilation airflow setpoint, each calculated by optimization routines in the BAS.

Occupied Mode:
During occupied periods, the supply fan shall run continuously and the outside air damper shall open to current airflow setpoint. The factory unit controller shall control the supply fan speed to maintain the current duct static pressure setpoint (adj.) The DX cooling shall be staged and gas heat shall modulated by the factory controller to maintain the current discharge air temperature setpoint. If economizing is enabled the outside air damper shall modulate to maintain the current discharge air temperature setpoint.

Unoccupied Mode:
When the space temperature is below the unoccupied heating setpoint of 60.0 deg. F (adj.) the supply fan shall start, the outside air damper shall remain closed and the gas heat shall be enabled. When the space temperature rises above the unoccupied heating setpoint of 60.0 deg. F (adj.) plus the unoccupied differential of 4.0 deg. F (adj.) the supply fan shall stop and the gas heat shall be disabled.
When the space temperature is above the unoccupied cooling setpoint of 85.0 deg. F (adj.) the supply fan shall start, the outside air damper shall open if economizing is enabled and remain closed if economizing is disabled and the DX cooling shall be enabled. When the space temperature falls below the unoccupied cooling setpoint of 85.0 deg. F (adj.) minus the unoccupied differential of 4.0 deg. F (adj.) the supply fan shall stop, the DX cooling shall be disabled and the outside air damper shall close.

Optimal Start:
The BAS shall monitor the scheduled occupied time, occupied space setpoints and space temperature to calculate when the optimal start occurs.

Morning Warm-Up Mode:
During optimal start, if the average space temperature is below the occupied heating setpoint a morning warm-up mode shall be activated. When morning warm-up is initiated the unit shall enable the heating and supply fan. The outside air damper shall remain closed. When the average space temperature reaches the occupied heating setpoint (adj.), the unit shall transition to the occupied mode.

Pre-Cool Mode:
During optimal start, if the average space temperature is above the occupied cooling setpoint, pre-cool mode shall be activated. When pre-cool is initiated the unit shall enable the fan and cooling or economizer. The outside air damper shall remain closed, unless economizing. When the average space temperature reaches occupied cooling setpoint (adj.), the unit shall transition to the occupied mode.

Occupied Bypass:
The BAS shall monitor the status of the "on" and "cancel" buttons of the space temperature sensors. When an occupied bypass request is received from a space sensor, the unit shall transition from its current occupancy mode to occupied bypass mode and the unit shall maintain the space temperature to the occupied setpoints (adj.).

Cooling Mode:
The unit controller shall use the discharge air temperature sensor and discharge air temperature cooling setpoint to determine when to initiate requests for cooling. Discharge air setpoint shall be maintained by the factory controller by modulating the economizer or staging the DX cooling as required to maintain the discharge air setpoint.

Heating Mode:
During Unoccupied Heating or Morning Warm-Up Mode, the unit heat request will be communicated to the system VAVs prior to commencing heating operation to allow VAV units to open. The BAS will request the factory unit controller to command the VFD to 100% and modulate the heat until the zone temperature setpoints are satisfied. During occupied changeover heating, the units factory controller shall modulate the gas heat to maintain the discharge air heating setpoint

Dehumidification Mode:
If the return air humidity rises above setpoint, while a cooling call is not present, the factory unit controller shall stage compressors as
necessary to provide dehumidification while not over-cooling the supply air. The unit shall return to normal operation when the return air humidity setpoint is satisfied.

Supply Air Temperature Reset Control:
The supply air temperature setpoint shall be reset to the optimal setpoint communicated by the BAS. The BAS shall reset the supply air temperature setpoint based on the current outside air temperature, but shall override this reset function and return the supply air temperature setpoint to 55.0 deg. F (adj.) if more than two (adj.) zones begin to overheat. Also, the BAS shall override this reset function whenever outdoor dew point is higher than 60.0 deg. F (adj.) or indoor humidity is higher than 60% RH (adj.) The BAS shall reset the supply air setpoint based on the return air humidity or current humidity measured by the room humidity sensors. If the supply air temperature drops below the minimum limit, a low temperature alarm shall be annunciated and the unit shall shut down. If the supply air temperature rises above the maximum limit, a high temperature alarm shall be annunciated.

Economizer:
The economizer dampers shall be modulated by the factory unit controller in order to accomplish the following sequence intent, per setpoints communicated by the BAS. The supply air sensor shall measure the dry bulb temperature of the air leaving the evaporator coil while economizing. When economizing is enabled and the unit is operating in the cooling mode, the economizer damper shall be modulated between its minimum position and 100% to maintain the discharge air temperature setpoint. The economizer damper shall modulate toward minimum position in the event the discharge air temperature falls below the discharge low limit temperature setpoint.
Comparative Enthalpy:
Outside air (OA) enthalpy shall be compared with Return air (RA) enthalpy point. The economizer shall enable when OA enthalpy is less than RA enthalpy - 3.0 BTU/LB. The economizer shall disable when OA enthalpy is greater than RA enthalpy.

Ventilation Control:
When in the occupied mode, the flow-measuring outdoor-air damper shall modulate to maintain the current ventilation airflow setpoint by the factory unit controller. The ventilation airflow setpoint shall be reset to the optimal ventilation setpoint communicated by the BAS. The BAS shall reset the ventilation setpoint based on the current ventilation needs of the VAV terminals.

Supply Fan:
The supply fan shall be enabled while in the occupied mode and cycled on during the unoccupied mode. Fan status shall be monitored by the BAS through the factory unit controller. If fan status does not prove within 40 seconds after a request for fan operation a fan failure alarm shall be annunciated at the BAS, the unit shall be commanded to stop, requiring a manual reset.

Supply Duct Static Pressure Control:
The duct static pressure setpoint shall be reset to the optimal setpoint communicated by the BAS. The BAS shall reset the duct static pressure setpoint based on the position of the furthest open VAV damper.
If for any reason the supply air pressure exceeds the supply air pressure high limit , the
supply fan shall shut down. The unit shall be allowed to restart three times after a 15 minute off period. If the overpressurization condition occurs on the fourth restart, the unit shall shut down and a manual reset diagnostic is displayed at the remote panel and/or the BAS system.

Building Pressure Control:
A differential pressure transducer shall actively monitor the difference in pressure between the building (indoors) and outdoors. If the building pressure increases above the differential pressure setpoint, the unit controller shall turn on the RTU relief exhaust fan and modulate the exhaust fan VFD to control building pressure to the differential pressure setpoint. If the building pressure continues to increase after RTU relief exhaust fan is activated, the BAS shall turn on EF-6 and modulate EF-6 VFD to control building pressure to the differential setpoint. If the building pressure decreases below the differential pressure setpoint, the BAS shall first deativate EF-6. Upon an additional building pressure decrease, the controller shall deactivate the RTU relief exhaust fan VFD.

Exhaust Fan Status:
Fan status shall be monitored by the BAS through the factory unit controller. If fan status does not prove within 40 seconds after a request for fan operation a fan failure alarm shall be annunciated at the BAS, the exhaust fan shall be commanded to stop, requiring a manual reset.

Filter Status:
A differential pressure switch shall monitor the differential pressure across the filter when the fan is running. If the switch closes for 2 minutes after a request for fan operation a dirty filter alarm shall be annunciated at the BAS.

RTU-3,4 SEQUENCE OF OPERATION

Building Automation System Interface:
The Building Automation System (BAS) shall send the controller Occupied Bypass, Morning Warm-up / Pre-Cool, Occupied / Unoccupied and Heat / Cool modes. If communication is lost with the BAS the controller shall operate using default modes and setpoints. The BAS shall also send the controller a duct static pressure setpoint, discharge air temperature setpoint, and ventilation airflow setpoint, each calculated by optimization routines in the BAS.

Occupied Mode:
During occupied periods, the supply fan shall run continuously and the outside air damper shall open to current airflow setpoint. The factory unit controller shall control the supply fan speed to maintain the current duct static pressure setpoint (adj.) The DX cooling shall be staged and gas heat shall modulated by the factory controller to maintain the current discharge air temperature setpoint. If economizing is enabled the outside air damper shall modulate to maintain the current discharge air temperature setpoint.

Unoccupied Mode:
When the space temperature is below the unoccupied heating setpoint of 60.0 deg. F (adj.) the supply fan shall start, the outside air damper shall remain closed and the gas heat shall be enabled. When the space temperature rises above the unoccupied heating setpoint of 60.0 deg. F (adj.) plus the unoccupied differential of 4.0 deg. F (adj.) the supply fan shall stop and the gas heat shall be disabled.
When the space temperature is above the unoccupied cooling setpoint of 85.0 deg. F (adj.) the supply fan shall start, the outside air damper shall open if economizing is enabled and remain closed if economizing is disabled and the DX cooling shall be enabled. When the space temperature falls below the unoccupied cooling setpoint of 85.0 deg. F (adj.) minus the unoccupied differential of 4.0 deg. F (adj.) the supply fan shall stop, the DX cooling shall be disabled and the outside air damper shall close.

Optimal Start:
The BAS shall monitor the scheduled occupied time, occupied space setpoints and space temperature to calculate when the optimal start occurs.

Morning Warm-Up Mode:
During optimal start, if the average space temperature is below the occupied heating setpoint a morning warm-up mode shall be activated. When morning warm-up is initiated the unit shall enable the heating and supply fan. The outside air damper shall remain closed. When the average space temperature reaches the occupied heating setpoint (adj.), the unit shall transition to the occupied mode.

Pre-Cool Mode:
During optimal start, if the average space temperature is above the occupied cooling setpoint, pre-cool mode shall be activated. When pre-cool is initiated the unit shall enable the fan and cooling or economizer. The outside air damper shall remain closed, unless economizing. When the average space temperature reaches occupied cooling setpoint (adj.), the unit shall transition to the occupied mode.

Occupied Bypass:
The BAS shall monitor the status of the "on" and "cancel" buttons of the space temperature sensors. When an occupied bypass request is received from a space sensor, the unit shall transition from its current occupancy mode to occupied bypass mode and the unit shall maintain the space temperature to the occupied setpoints (adj.).

Cooling Mode:
The unit controller shall use the discharge air temperature sensor and discharge air temperature cooling setpoint to determine when to initiate requests for cooling. Discharge air setpoint shall be maintained by the factory controller by modulating the economizer or staging the DX cooling as required to maintain the discharge air setpoint.

Heating Mode:
During Unoccupied Heating or Morning Warm-Up Mode, the unit heat request will be communicated to the system VAVs prior to commencing heating operation to allow VAV units to open. The BAS will request the factory unit controller to command the VFD to 100% and modulate the heat until the zone temperature setpoints are satisfied. During occupied changeover heating, the units factory controller shall modulate the gas heat to maintain the discharge air heating setpoint

Dehumidification Mode:
If the return air humidity rises above setpoint, while a cooling call is not present, the factory unit controller shall stage compressors as
necessary to provide dehumidification while not over-cooling the supply air. The unit shall return to normal operation when the return air humidity setpoint is satisfied.

Supply Air Temperature Reset Control:
The supply air temperature setpoint shall be reset to the optimal setpoint communicated by the BAS. The BAS shall reset the supply air temperature setpoint based on the current outside air temperature, but shall override this reset function and return the supply air temperature setpoint to 55.0 deg. F (adj.) if more than two (adj.) zones begin to overheat. Also, the BAS shall override this reset function whenever outdoor dew point is higher than 60.0 deg. F (adj.) or indoor humidity is higher than 60% RH (adj.) The BAS shall reset the supply air setpoint based on the return air humidity or current humidity measured by the room humidity sensors. If the supply air temperature drops below the minimum limit, a low temperature alarm shall be annunciated and the unit shall shut down. If the supply air temperature rises above the maximum limit, a high temperature alarm shall be annunciated.

Economizer:
The economizer dampers shall be modulated by the factory unit controller in order to accomplish the following sequence intent, per setpoints communicated by the BAS. The supply air sensor shall measure the dry bulb temperature of the air leaving the evaporator coil while economizing. When economizing is enabled and the unit is operating in the cooling mode, the economizer damper shall be modulated between its minimum position and 100% to maintain the discharge air temperature setpoint. The economizer damper shall modulate toward minimum position in the event the discharge air temperature falls below the discharge low limit temperature setpoint.
Comparative Enthalpy:
Outside air (OA) enthalpy shall be compared with Return air (RA) enthalpy point. The economizer shall enable when OA enthalpy is less than RA enthalpy - 3.0 BTU/LB. The economizer shall disable when OA enthalpy is greater than RA enthalpy.

Ventilation Control:
When in the occupied mode, the flow-measuring outdoor-air damper shall modulate to maintain the current ventilation airflow setpoint by the factory unit controller. The ventilation airflow setpoint shall be reset to the optimal ventilation setpoint communicated by the BAS. The BAS shall reset the ventilation setpoint based on the current ventilation needs of the VAV terminals.

Supply Fan:
The supply fan shall be enabled while in the occupied mode and cycled on during the unoccupied mode. Fan status shall be monitored by the BAS through the factory unit controller. If fan status does not prove within 40 seconds after a request for fan operation a fan failure alarm shall be annunciated at the BAS, the unit shall be commanded to stop, requiring a manual reset.

Supply Duct Static Pressure Control:
The duct static pressure setpoint shall be reset to the optimal setpoint communicated by the BAS. The BAS shall reset the duct static pressure setpoint based on the position of the furthest open VAV damper.
If for any reason the supply air pressure exceeds the supply air pressure high limit , the
supply fan shall shut down. The unit shall be allowed to restart three times after a 15 minute off period. If the overpressurization condition occurs on the fourth restart, the unit shall shut down and a manual reset diagnostic is displayed at the remote panel and/or the BAS system.

Building Pressure Control:
A differential pressure transducer shall actively monitor the difference in pressure between the building (indoors) and outdoors. If the building pressure increases above the differential pressure setpoint, the unit controller shall turn on the exhaust fan and modulate the exhaust fan VFD to control building pressure to the differential pressure setpoint. If the building pressure decreases below the differential pressure setpoint, the controller shall deactivate the exhaust fan VFD.

Exhaust Fan Status:
Fan status shall be monitored by the BAS through the factory unit controller. If fan status does not prove within 40 seconds after a request for fan operation a fan failure alarm shall be annunciated at the BAS, the exhaust fan shall be commanded to stop, requiring a manual reset.

Filter Status:
A differential pressure switch shall monitor the differential pressure across the filter when the fan is running. If the switch closes for 2 minutes after a request for fan operation a dirty filter alarm shall be annunciated at the BAS.

RTU-2 SEQUENCE OF OPERATION

Building Automation System Interface:
The Building Automation System (BAS) shall send the controller Occupied Bypass, Morning Warm-up / Pre-Cool, Occupied / Unoccupied and Heat / Cool modes. If communication is lost with the BAS the controller shall operate using default modes and setpoints. The BAS shall also send the controller a duct static pressure setpoint and discharge air temperature setpoint.

Occupied Mode:
During occupied periods, the supply fan and exhaust fan shall run continuously and the outside air damper shall modulate fully open. The factory unit controller shall control the supply fan speed to maintain the current duct static pressure setpoint (adj.) and shall control the exhaust fan speed to maintain an exhaust airflow differential (adj.) to the supply airflow. The exhaust airflow shall always be greater than the supply airflow by the airflow differetial setpoint. The DX cooling shall be staged and gas heat shall be modulated by the factory controller to maintain the current discharge air temperature setpoint.

Unoccupied Mode:
When the space temperature is below the unoccupied heating setpoint of 60.0 deg. F (adj.) the supply fan and exhaust fans shall start, the outside air damper shall modulate fully open and the gas heat shall be enabled. When the space temperature rises above the unoccupied heating setpoint of 60.0 deg. F (adj.) plus the unoccupied differential of 4.0 deg. F (adj.) the supply fan and exhaust fan shall stop and the gas heat shall be disabled. When the space temperature is above the unoccupied cooling setpoint of 85.0 deg. F (adj.) the supply fan and exhaust fan shall start, the outside air damper shall modulate fully open and the DX cooling shall be enabled. When the space temperature falls below the unoccupied cooling setpoint of 85.0 deg. F (adj.) minus the unoccupied differential of 4.0 deg. F (adj.) the supply fan and exhaust fan shall stop, the DX cooling shall be disabled and the outside air damper shall close.

Optimal Start:
The BAS shall monitor the scheduled occupied time, occupied space setpoints, space temperature, and outside air temperature to calculate when the optimal start occurs.

Morning Warm-Up Mode:
During optimal start, if the average space temperature is below the occupied heating setpoint a morning warm-up mode shall be activated. When morning warm-up is initiated the unit shall enable the heating coil, supply fan, and exhaust fan. The outside air damper shall modulate fully open. When the average space temperature reaches the occupied heating setpoint (adj.), the unit shall transition to the occupied mode.

Pre-Cool Mode:
During optimal start, if the average space temperature is above the occupied cooling setpoint, pre-cool mode shall be activated. When pre-cool is initiated the unit shall enable the supply fan and exhaust fan and either the DX cooling coil or the economizer, based upon differential enthalpy. The outside air damper shall modulate fully open. When the average space temperature reaches occupied cooling setpoint (adj.), the unit shall transition to the occupied mode.

Occupied Bypass:
The BAS shall monitor the status of the "on" and "cancel" buttons of the space temperature sensors. When an occupied bypass request is received from a space sensor, the unit shall transition from its current occupancy mode to occupied bypass mode and the unit shall maintain the space temperature to the occupied setpoints (adj.) for the set (adj.) occupied bypass duration time.

Cooling Mode:
The unit controller shall use the discharge air temperature sensor and discharge air temperature cooling setpoint to determine when to initiate requests for cooling. Discharge air setpoint shall be maintained by the factory controller by modulating the DX cooling as required to maintain the discharge air setpoint.

Heating Mode:
During Unoccupied Heating or Morning Warm-Up Mode, the unit heat request will be communicated to the system VAVs prior to commencing heating operation to allow VAV units to open. The BAS will request the factory unit controller to command the supply fan VFD to control to the maximum duct static pressure setpoint and modulate the heat until the zone temperature setpoints are satisfied. During occupied changeover heating, the unit's factory controller shall modulate the gas heat to maintain the discharge air heating setpoint

Dehumidification Mode:
If the return air humidity rises above setpoint, while a cooling call is not present, the factory unit controller shall stage compressors and modulate the hot gas reheat as necessary to provide dehumidification while not over-cooling the supply air. The unit shall return to normal operation when the return air humidity setpoint is satisfied.

Supply Air Temperature Reset Control:
The supply air temperature setpoint shall be reset to the optimal setpoint communicated by the BAS. The BAS shall reset the supply air temperature setpoint based on the current outside air temperature, but shall override this reset function and return the supply air temperature setpoint to 55.0 deg. F (adj.) if more than two (adj.) zones begin to overheat. Also, the BAS shall override this reset function whenever outdoor dew point is higher than 60.0 deg. F (adj.) or indoor humidity is higher than 60% RH (adj.).The BAS shall reset the supply air setpoint based on the return air humidity or current humidity measured by the room humidity sensors. If the supply air temperature drops below the minimum limit, a low temperature alarm shall be annunciated and the unit shall shut down. If the supply air temperature rises above the maximum limit, a high temperature alarm shall be annunciated.

Supply Fan:
The supply fan shall be enabled while in the occupied mode and cycled on during the unoccupied mode. Fan status shall be monitored by the BAS through the factory unit controller. If fan status does not prove within 40 seconds after a request for fan operation a fan failure alarm shall be annunciated at the BAS, the unit shall be commanded to stop, requiring a manual reset.

Supply Duct Static Pressure Control:
The duct static pressure setpoint shall be reset to the optimal setpoint communicated by the BAS. The BAS shall reset the duct static pressure setpoint based on the position of the furthest open VAV damper.
If for any reason the supply air pressure exceeds the supply air pressure high limit, the supply fan shall shut down. The unit shall be allowed to restart three times after a 15 minute off period. If the overpressurization condition occurs on the fourth restart, the unit shall shut down and a manual reset diagnostic is displayed at the remote panel and/or the BAS system.

Building Pressure Control:
The Exhaust Fan shall be ON whenever the Supply Fan is ON and shall control exhaust airflow to a set differential (adj.) to the supply fan airflow. A differential pressure transducer shall actively monitor and log/trend the difference in pressure between the building (indoors) and outdoors for troubleshooting purposes.

Exhaust Fan Status:
Fan status shall be monitored by the BAS through the factory unit controller. If fan status does not prove within 40 seconds after a request for fan operation a fan failure alarm shall be annunciated at the BAS, the exhaust fan shall be commanded to stop, requiring a manual reset. Exhaust Fan duct static pressure shall be monitored and logged/trended by the BAS for troubleshooting purposes.

Filter Status:
A differential pressure switch shall monitor the differential pressure across the filter when the fan is running. If the switch closes for 2 minutes after a request for fan operation a dirty filter alarm shall be annunciated at the BAS.

EXHAUST FAN EF-7: THE EXHAUST FAN WILL BE STARTED AND STOPPED BY THE BAS. THE EXHAUST FAN WILL BE ACTIVATED AS A 2ND STAGE OF BUILDING PRESSURIZATION CONTROL TO THE RTU-1 RELIEF EXHAUST FAN. THE EXHAUST FAN WILL ALSO BE AUTOMATICALLY STOPPED BY THE UNITS SMOKE DETECTORS, LOW LIMIT TEMPERATURE SENSORS, OR HIGH STATIC LIMIT SAFETY SWITCH THROUGH THE VFD SAFETY CIRCUIT WHENEVER AN UNSAFE CONDITION OCCURS. STATUS OF THE EXHAUST FAN WILL BE MONITORED BY THE DIGITAL CONTROLLER INPUT USING THE VFD RUN STATUS. THE SPEED OF THE EXHAUST FAN WILL BE MODULATED BY THE DIGITAL CONTROLLER AS REQUIRED TO MAINTAIN THE BUILDING PRESSURE AT SET POINT (MINUS 0.05" W.C. ADJUSTABLE).
THE ASSOCIATED EXHAUST DAMPER WILL AUTOMATICALLY OPEN PRIOR TO THE EXHAUST FAN STARTING, AND CLOSE AFTER THE EXHAUST FAN IS OFF AFTER AN ADJUSTABLE TIME DELAY. AN END SWITCH WILL PREVENT THE FAN FROM STARTING UNLESS THE DAMPER IS FULLY OPEN. SET RAMP SPEED OF VFD FOR SEVEN MINUTES MINIMUM TO MAXIMUM.

EXHAUST FAN EF-1,2: THE EXHAUST FAN WILL BE STARTED AND STOPPED BY THE BAS. THE EXHAUST FAN SHALL RUN CONTINUOUSLY AT SET SPEED DURING BUILDING OCCUPIED MODE.
THE EXHAUST FAN SHALL SHUT DOWN DURING UNOCCUPIED MODES.
THE ASSOCIATED EXHAUST DAMPER WILL AUTOMATICALLY OPEN PRIOR TO THE EXHAUST FAN STARTING, AND CLOSE AFTER THE EXHAUST FAN IS OFF AFTER AN ADJUSTABLE TIME DELAY.
AN END SWITCH WILL PREVENT THE FAN FROM STARTING UNLESS THE DAMPER IS FULLY OPEN.
SET RAMP SPEED OF VFD FOR SEVEN MINUTES MINIMUM TO MAXIMUM.

EXHAUST FAN EF-3,4,5,6: THE EXHAUST FAN SHALL BE COMMANDED ON AND OFF BASED ON A ROOM THERMOSTAT
THE BAS SHALL SEND AN ALARM STATUS IF ROOM RISES ABOVE 95F (ADJ.)

SINGLE DUCT VAV BOX WITH SCR REHEAT

MODE OF OPERATION:
THE SUPPLY AIR TERMINAL UNIT MODE OF OPERATION WILL BE OCCUPIED, UNOCCUPIED, OR MORNING WARM-UP BASED ON A SCHEDULE COMMUNICATED FROM THE BAS, AN OPERATOR OVERRIDE COMMAND FROM THE BAS, A TEMPORARY OCCUPANCY OVERRIDE SIGNAL FROM THE SPACE TEMPERATURE SENSOR OVERRIDE PUSHBUTTON, OR A SIGNAL FROM THE ZONE OCCUPANCY SENSOR (IF ZONE CONTAINS AN OCCUPANCY SENSOR).

OCCUPIED MODE: DURING THE "OCCUPIED" MODE OF OPERATION, THE SET POINT WILL BE ADJUSTABLE BY THE OCCUPANT AT THE THERMOSTAT BETWEEN A MINIMUM OF 70 DEGREES AND A MAXIMUM OF 75 DEGREES (ADJ.). IF THERE IS NO OCCUPANT ADJUSTMENT AVAILABLE, THE SET POINT SHALL BE 73 DEGREES (ADJUSTABLE). THERE WILL BE A 1 DEGREE DEAD BAND ON EITHER SIDE OF THE SET POINT. ON A CALL FOR COOLING, THE TERMINAL DAMPER WILL BE MODULATED TO MAINTAIN THE AIR FLOW SET POINT DETERMINED BY THE CONTROLLER BETWEEN THE OCCUPIED COOLING MINIMUM AIR FLOW AND THE OCCUPIED COOLING MAXIMUM AIR FLOW RATES AS SCHEDULED. ON A CALL FOR HEATING, THE TERMINAL DAMPER WILL BE MODULATED TO MAINTAIN THE AIR FLOW SET POINT DETERMINED BY THE CONTROLLER TO THE OCCUPIED HEATING MINIMUM AIR FLOW RATE AND THE SCR HEATING CONTROL WILL MODULATE TO INCREASE HEAT. IF THERE IS STILL A CALL FOR HEATING AFTER THE SCR CONTROL IS FULLY OPENED, THE TERMINAL DAMPER WILL MODULATE TO MAINTAIN THE AIR FLOW SET POINT DETERMINED BY THE CONTROLLER UNTIL IT REACHES THE OCCUPIED HEATING MAXIMUM AIR FLOW RATE AS SCHEDULED. WHEN THE SPACE TEMPERATURE IS BETWEEN THE DEAD BAND TEMPERATURES, THE TERMINAL DAMPER SHALL MODULATE TO MAINTAIN THE AIR FLOW SET POINT AT THE OCCUPIED

UNOCCUPIED MODE: DURING THE "UNOCCUPIED" MODE OF OPERATION, THE SET POINT WILL BE ADJUSTABLE BY THE OCCUPANT AT THE THERMOSTAT BETWEEN A MINIMUM OF 70 DEGREES AND A MAXIMUM OF 75 DEGREES. IF THERE IS NO OCCUPANT ADJUSTMENT AVAILABLE, THE SET POINT SHALL BE 73 DEGREES (ADJUSTABLE). THERE WILL BE A 10 DEGREE DEAD BAND (ADJ.). ON EITHER SIDE OF THE SET POINT. ON A CALL FOR COOLING, THE TERMINAL DAMPER WILL BE MODULATED TO MAINTAIN THE AIR FLOW SET POINT DETERMINED BY THE CONTROLLER BETWEEN THE OCCUPIED COOLING MINIMUM AIR FLOW (TYPICALLY 0 CFM) AND THE OCCUPIED COOLING MAXIMUM AIR FLOW RATES AS SCHEDULED. ON A CALL FOR HEATING, THE TERMINAL DAMPER WILL BE MODULATED TO MAINTAIN THE AIR FLOW SET POINT DETERMINED BY THE CONTROLLER TO THE OCCUPIED HEATING MINIMUM AIR FLOW RATE (TYPICALLY 0 CFM) AND THE OCCUPIED HEATING MAXIMUM AIR FLOW RATE AS SCHEDULED. WHEN THE SPACE TEMPERATURE IS BETWEEN THE DEAD BAND TEMPERATURES, THE TERMINAL DAMPER

MORNING WARM-UP MODE:
IF THE SPACE TEMPERATURE IS BELOW THE EFFECTIVE HEATING SETPOINT, THE SCR HEATING WILL BE ENABLED AND WILL MODULATE TO MAINTAIN THE EFFECTIVE HEATING SETPOINT AND THE SUPPLY AIR TERMINAL UNIT DAMPER WILL BE MODULATED UP TO THE HEATING MAXIMUM SCHEDULED AIRFLOW. IN MORNING WARM-UP MODE, THERE WILL BE NO TERMINAL UNIT HIGH DISCHARGE AIR TEMPERATURE LIMIT.

VENTILATION CONTROL:
WHEN THE UNIT IS IN UN-OCCUPIED MODE, THE VENTILATION AIRFLOW SETPOINT SHALL BE ZERO.
WHEN THE UNIT IS IN OCCUPIED MODE, THE VENTILATION AIRFLOW SETPOINT SHALL EQUAL THE DESIGN OUTDOOR AIRFLOW (SEE VAV SCHEDULE)
IF THE UNIT IS EQUIPMENT WITH A CO2 SENSOR, THE VENTILATION AIRFLOW SETPOINT SHALL MODULE BETWEEN MINIMUM AND MAXIMUM AIRFLOWS TO MEET THE CO2 SENSOR SETPOINT OF 1000PPM (ADJ.).
THE CURRENT VENTILATION AIRFLOW SETPOINT SHALL BE COMMUNICATED TO THE BAS FOR CONTROL OF THE SYSTEM OUTDOOR AIR INTAKE.

HUMIDITY CONTROL:
IF THE UNIT IS EQUIPMENT WITH A HUMIDITY SENSOR, THE HUMIDITY SENSOR SHALL MAINTAIN A RELATIVE HUMIDITY MAXIMUM OF 60%RH (ADJ.). IF RH RISES ABOVE SETPOINT, THE BAS SHALL SEND A SIGNAL TO THE RTU TO RESET SUPPLY AIR TEMPERATURE TO 54F (ADJ.). IF ROOM RH SETPOINT IS STILL NOT SATIFIED, VAV BOX DAMPER IS TO OPEN TO MAXIMUM POSITION. ELECTRIC REHEAT WILL MAINTAIN APPROPRIATE SUPPLY AIR TEMPERATURE TO MAINTAIN ROOM SETPOINT. WHEN ROOM RH DROPS TO BELOW 60%(ADJ), SYSTEM SHALL RETURN TO NORMAL OCCUPIED MODE.

FORMALDEHYDE CONTROL: MFR:BACHARACH MODEL:GDC-150-5201-1-1-13
IF THE UNIT IS EQUIPMENT WITH A FORMALDEHYDE SENSOR, THE FORMALDEHYDE SENSOR SHALL MAINTAIN A HCHO MAXIMUM OF 0.75PPM (ADJ.). IF HCHO LEVELS RISE ABOVE SETPOINT, THE VAV BOX DAMPER IS TO OPEN TO MAXIMUM POSITION TO PURGE THE ROOM. ELECTRIC REHEAT WILL MAINTAIN APPROPRIATE SUPPLY AIR TEMPERATURE TO MAINTAIN ROOM SETPOINT. WHEN ROOM HCHO LEVELS DROP TO BELOW 0.75PPM(ADJ), SYSTEM SHALL RETURN TO NORMAL OCCUPIED MODE.

SPACE SENSOR FAILURE:
IF THERE IS A FAULT WITH THE OPERATION OF THE ZONE SENSOR AN ALARM SHALL BE ANNUNCIATED AT THE BAS. SPACE SENSOR FAILURE SHALL CAUSE THE VAV TO DRIVE THE DAMPER TO MINIMUM AIR FLOW IF THE VAV IS IN THE OCCUPIED MODE, OR DRIVE IT CLOSED IF THE VAV IS IN THE UN-OCCUPIED MODE.

SINGLE DUCT VAV BOX - EXHAUST / RETURN BOX

BOXES SERVING LAB SPACES:
EXHAUST / RETURN VAV BOX AIR VALVE SHALL MODULATE BETWEEN FULLY CLOSED AND FULLY OPEN IN ORDER TO KEEP BOX AIRFLOW GREATER THAN THE CORRESPONDING SUPPLY VAV BOX AIRFLOW BY A SET AIRFLOW DIFFERENTIAL PER VAV BOX SCHEDULE (ADJUSTABLE). SPACE DIFFERENTIAL PRESSURE TO ADJACENT INTERIOR SPACE TO BE MONITORED AND LOGGED VIA THE BAS FOR TROUBLESHOOTING PURPOSES.

BOXES SERVING NON-LAB SPACES:
EXHAUST / RETURN VAV BOX AIR VALVE SHALL MODULATE BETWEEN FULLY CLOSED AND FULLY OPEN IN ORDER TO KEEP BOX AIRFLOW LESS THAN THE SUM OF THE CORRESPONDING SUPPLY VAV BOX AIRFLOWS BY A SET AIRFLOW DIFFERENTIAL PER VAV BOX SCHEDULE (ADJUSTABLE). NON-LAB AREA CORRIDOR DIFFERENTIAL PRESSURE TO THE BUILDING EXTERIOR TO BE MONITORED AND LOGGED VIA THE BAS FOR TROUBLESHOOTING PURPOSES.

BOXE SERVING TOILET ROOMS:
EXHAUST / RETURN VAV BOX AIR VALVE SHALL MODULATE BETWEEN FULLY CLOSED AND FULLY OPEN IN ORDER TO MAINTAIN CONSTANT EXHAUST AIRFLOW PER SCHEDULE.

THE STARTING POINT FOR AIRFLOW DIFFERENTIAL SHALL BE THAT LISTED IN THE VAV BOX SCHEDULE.

EXACT AIRFLOW DIFFERENTIAL SHALL BE SET BY THE CONTROLS CONTRACTOR USING SPACE DIFFERENTIAL PRESSURE SENSOR VIA THE BUILDING BAS AND CONFIRMED BY A TEMPORARY DIFFERENTIAL PRESSURE MEASUREMENT INSTRUMENT PROVIDED BY THE CONTROLS CONTRACTOR.

THE DIFFERENTIAL PRESSURE ACROSS THE DOORWAY BETWEEN THE LAB SPACE AND THE ADJACENT INTERIOR NON-LAB SPACE USED TO ESTABLISH THE EXACT AIRFLOW DIFFERENTIAL FROM THE TOTAL SUPPLY TO THE SPACE SHALL BE -0.01 IN. W.G.

MINI SPLIT: ROOM THERMOSTAT SHALL SEQUENCE MINI-SLIT UNIT TO SWITCH HEATING(WHERE EQUIPPED) AND COOLING TO MEET ROOM TEMPERATURE SETPOINT.

THE BAS SHALL SEND AN ALARM STATUS IF ROOM RISES ABOVE 95F (ADJ.)

IN-ROW COOLING UNITS: THE BAS SHALL INTERFACE WITH THE FACTORY UNIT CONTROLLER VIA A FACTORY PROVIDED BACNET INTERFACE. ALL POINTS AVAILABLE FROM THE INTERFACE SHALL BE DISPLAYED AT THE BAS.
UNIT OPERATION: THE FACTORY CONTROLLER SHALL STAGE, MODULATE, AND OTHERWISE OPERATE THE UNIT AS NECESSARY TO MAINTAIN SPACE CONDITIONS AT THE SETPOINTS COMMUNICATED BY THE BAS.

BASEBOARD HEATERS: BASEBOARD SHALL BE ORDERED WITH 24V POWER RELAY TO INTERFACE WITH BAS. BAS SHALL ENERGIZE BASEBOARD HEATERS WHEN THERE IS A CALL FOR HEATING FROM THE ZONE THERMOSTAT.

PARALLEL FAN POWERED VAV BOX WITH SCR REHEAT

MODE OF OPERATION:
THE SUPPLY AIR TERMINAL UNIT MODE OF OPERATION WILL BE OCCUPIED, UNOCCUPIED, OR MORNING WARM-UP BASED ON A SCHEDULE COMMUNICATED FROM THE BAS, AN OPERATOR OVERRIDE COMMAND FROM THE BAS, A TEMPORARY OCCUPANCY OVERRIDE SIGNAL FROM THE SPACE TEMPERATURE SENSOR OVERRIDE PUSHBUTTON, OR A SIGNAL FROM THE ZONE OCCUPANCY SENSOR (IF ZONE CONTAINS AN OCCUPANCY SENSOR).

OCCUPIED MODE:
DURING THE "OCCUPIED" MODE OF OPERATION, THE SET POINT WILL BE ADJUSTABLE BY THE OCCUPANT AT THE THERMOSTAT BETWEEN A MINIMUM OF 70 DEGREES AND A MAXIMUM OF 75 DEGREES (ADJ.). IF THERE IS NO OCCUPANT ADJUSTMENT AVAILABLE, THE SET POINT SHALL BE 73 DEGREES (ADJUSTABLE). THERE WILL BE A 1 DEGREE DEAD BAND ON EITHER SIDE OF THE SET POINT. ON A CALL FOR COOLING, THE TERMINAL DAMPER WILL BE MODULATED TO MAINTAIN THE AIR FLOW SET POINT DETERMINED BY THE CONTROLLER BETWEEN THE OCCUPIED COOLING MINIMUM AIR FLOW AND THE OCCUPIED COOLING MAXIMUM AIR FLOW RATES AS SCHEDULED. ON A CALL FOR HEATING, THE TERMINAL DAMPER WILL BE MODULATED TO MAINTAIN THE AIR FLOW SET POINT DETERMINED BY THE CONTROLLER TO THE OCCUPIED HEATING MINIMUM AIR FLOW RATE AND THE SCR HEATING CONTROL WILL MODULATE TO INCREASE HEAT. IF THERE IS STILL A CALL FOR HEATING AFTER THE SCR CONTROL IS FULLY OPENED, THE TERMINAL DAMPER WILL MODULATE TO MAINTAIN THE AIR FLOW SET POINT DETERMINED BY THE CONTROLLER UNTIL IT REACHES THE OCCUPIED HEATING MAXIMUM AIR FLOW RATE AS SCHEDULED. WHEN THE SPACE TEMPERATURE IS BETWEEN THE DEAD BAND TEMPERATURES, THE TERMINAL DAMPER SHALL MODULATE TO MAINTAIN THE AIR FLOW SET POINT AT THE OCCUPIED COOLING MINIMUM AIR FLOW SET POINT

EXISTING ELECTRICAL AND DEMOLITION NOTES

1	PRIOR TO SUBMITTING BID, VISIT THE JOB SITE AND BECOME FULLY ACQUAINTED WITH THE EXISTING CONDITIONS OF THE FACILITY AND RELATED SITE. REVIEW THE GENERAL NOTES AND ALL OTHER TRADE DRAWINGS FOR ADDITIONAL REQUIREMENTS THAT MAY NOT BE CALLED OUT IN THIS PORTION OF THE CONSTRUCTION DOCUMENTS. NOTIFY ARCHITECT, ENGINEER OR OWNER, AS SPECIFIED, OF ANY CONFLICTS OR DISCREPANCIES PRIOR TO SUBMITTING BID.
2	ANY EXISTING CONDITIONS REFLECTED WERE TAKEN FROM ORIGINAL DRAWINGS AND SITE VISITS AND MAY NOT REFLECT EXACT "AS-BUILT" CONDITIONS. FIELD VERIFY ALL EXISTING CONDITIONS AND CAREFULLY COORDINATE NEW WORK AND DEMOLITION WITH ALL OTHER DISCIPLINES AND EXISTING CONDITIONS.
3	PROVIDE ALL DEMOLITION OF EXISTING ELECTRICAL SYSTEMS AND NEW ELECTRICAL SYSTEM MODIFICATIONS REQUIRED BECAUSE OF BUILDING REMODELING, AS NOTED ON THE DRAWINGS, OR NECESSARY FOR PROPER OPERATION AND NEW CONSTRUCTION. REMOVE ALL ABANDONED CABLES AND WIRING ABOVE ACCESSIBLE CEILINGS AND VENTILATION SHAFTS.
4	COORDINATE INTERUPTION OF ALL BUILDING SERVICES INCLUDING BUT NOT LIMITED TO BRANCH CIRCUITS, DATA, TELEPHONE, ETC WITH BUILDING OWNER PRIOR TO INTERUPTION. PROVIDE LABOR AND MATERIALS AS REQUIRED TO REDUCE INTERUPTIONS IN ORDER TO MAINTAIN EXISTING OPERATION.
5	PAY SPECIAL ATTENTION NOT TO DAMAGE THE FINISH OF EXISTING WALLS AND CEILINGS THAT ARE TO REMAIN WHEN REMOVING OR REPLACING LIGHT FIXTURES AND OTHER ELECTRICAL DEVICES. REPAIR ANY DAMAGE CAUSED DURING WORK AT NO EXTRA COST TO THE OWNER. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
6	RELOCATE ALL EXISTING ELECTRICAL, FIRE ALARM, AND OTHER LOW-VOLTAGE SYSTEMS REQUIRED TO BE IN OPERATION AT SUBSTANTIAL COMPLETION OF THE CONTRACT, IF REQUIRED, AS A RESULT OF WORK INCLUDED UNDER THIS CONTRACT, EVEN IF NOT SPECIFICALLY INDICATED IN THE DRAWINGS OR SPECIFICATIONS.
7	SEAL ALL PENETRATIONS THROUGH FLOORS, WALLS, CEILINGS, AND ROOF WHERE ELECTRICAL COMPONENTS ARE REMOVED AND WHERE THE EXISTING PENETRATION IS NOT USED FOR THE NEW INSTALLATION. REPAIR DAMAGED SURFACES TO MATCH ADJACENT AREAS OR AS DIRECTED BY THE OWNER.
8	UNLESS NOTED OTHERWISE, ABANDONED CONDUIT ASSEMBLIES SERVING DEMOLISHED DEVICES SHALL BE REMOVED BACK TO NEAREST JUNCTION BOX OUTSIDE OF AREA OF DEMOLITION AND LABLED AS REQUIRED FOR FUTURE USE. ASSOCIATED WIRING SHALL BE REMOVED BACK TO SERVICING PANELBOARD, UPDATE PANELBOARD CIRCUIT DIRECTORY AS REQUIRED TO INDICATE RELATED CIRCUIT(S) AS "SPARE".
9	ANY PANELBOARD CIRCUIT DISCRIPTIONS SHOWN AS "existing" OR IN OTHER LOWER CASE LETTERING IS INTENDED TO REFLECT AN EXISTING CIRCUIT TO REMAIN UNLESS OTHERWISE IDENTIFIED DIFFERENTLY THRU THE COURSE OF CONSTRUCTION.
10	ALL CIRCUIT BREAKERS SERVING BRANCH CIRCUITS TO BE REMOVED SHALL REMAIN IN RESPECTIVE PANELBOARD FOR FUTURE USE UNLESS NOTED OTHERWISE.

GENERAL POWER NOTES

1	ALL RECEPTACLES SHALL BE GROUNDING TYPE.
2	ALL RECEPTACLES INSTALLED IN BATHROOMS, OUTDOORS AND KITCHENS SHALL HAVE GROUND-FAULT CIRCUIT INTERRUPTER PROTECTION AS REQUIRED BY THE NATIONAL ELECTRIC CODE.
3	COORDINATE MECHANICAL EQUIPMENT CONNECTION REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN. LOCATE FEEDERS, DISCONNECTS AND MAINTENANCE RECEPTACLES SO THAT THEY WILL NOT INTERFERE WITH OPERATION OR MAINTENANCE OF MECHANICAL EQUIPMENT.
4	PROVIDE POWER TO MECHANICAL, PLUMBING, AND ALL OTHER EQUIPMENT AS REQUIRED FOR PROPER OPERATION. COORDINATE AND VERIFY EACH PIECE OF EQUIPMENTS POWER/CONTROL REQUIRMENTS PRIOR TO ORDERING RELATED ELECTRICAL EQUIPMENT. REFER TO RELATED MECHANICAL, PLUMBING, AND OTHER RELATED DOCUMENTS FOR LOCATIONS OF EQUIPMENT AND REQUIRED CLEARANCES AROUND EQUIPMENT.
5	COORDINATE EXACT MOUNTING HEIGHT OF EACH ABOVE COUNTER RECEPTACLE WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN.
6	ALL OUTLETS LOCATED IN AREAS REQUIRING GROUND-FAULT CIRCUIT INTERRUPTER PROTECTION PER NEC-210 SHALL CONSIST OF A GFCI PROTECTED DEVICE, EVEN IF NOT SPECIFICALLY INDICATED IN THE DRAWINGS. THE GROUND-FAULT CIRCUIT INTERRUPTER SHALL BE INSTALLED IN A READILY ACCESSIBLE LOCATION AS DEFINED IN THE NEC. ALL RECEPTACLES SUPPLIED THROUGH A GROUND-FAULT CIRCUIT INTERRUPTER SHALL BE MARKED "GFCI PROTECTED."

GENERAL LIGHTING NOTES

1	WHERE RECESSED LIGHTING FIXTURES ARE INDICATED IN A FIRE RATED CEILING, PROVIDE A ONE HOUR RATED "TENT" FOR FIXTURE
2	PROVIDE ALL MOUNTING AND SUPPORT HARDWARE FOR LIGHT FIXTURES TO MEET SPECIFIED MOUNTING HEIGHTS. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT MOUNTING HEIGHTS OF FIXTURES.
3	CONNECT "UN-SWITCHED" HOT CONDUCTOR FROM CIRCUIT SERVING SPACE LIGHTING TO EACH EXIT SIGN, EMERGENCY LIGHT, AND ANY FIXTURE DESIGNATED AS NIGHT LIGHT SERVING THE SPACE.
4	COORDINATE ALL DEVICES AND WALL-MOUNTED LIGHT FIXTURE LOCATIONS WITH THE ARCHITECTURAL WALL FINISHES AND ELEVATIONS. SPECIAL ATTENTION AND COORDINATION OF WALL TYPES AND FINISHES IS REQUIRED PRIOR TO ROUGH-IN. EXACT LOCATION OF DEVICES SHALL BE COORDINATED WITH THE ARCHITECT PRIOR TO ROUGH-IN TO AVOID INSTALLATION ON SPECIAL ARCHITCTURAL WALL FINISHES. DEVICES NOT PROPERLY COORDINATED WITH THE SPECIAL WALL FINISHES INDICATED IN THE CONSTRUCTION DOCUMENTS PRIOR TO ROUGH-IN SHALL BE RELOCATED AT NO ADDITIONAL COST TO THE OWNER.
5	ELECTRICAL CONTRATOR SHALL VERIFY CHEVRON DIRECTIONS OF ALL EXIT SIGNS PRIOR TO ORDERING.
6	FOR BATTERY FED EMERGENCY LIGHTS: PROVIDE EMERGENCY BALLAST. PROVIDE "HOT" WIRE TO EMERGENCY BALLAST. SWITCH FIXTURE AS INDICATED ON PLANS.
7	COORDINATE AND PROVIDE DIMMER SWITCHES RATED FOR AND COMPATABLE WITH INTENDED LIGHT FIXTURE(S) TO BE CONTROLLED. CIRCUITS CONTROLLED WITH LINE-VOLTAGE DIMMER SWITCHES SHALL NOT SHARE NEUTRAL CONDUCTORS.

GENERAL LOW VOLTAGE NOTES

1	PROVIDE 4'WIDE X 8'TALL X 3/4" FIRE RATED, PAINTED CDX PLYWOOD BACKBOARD WHERE SHOWN ON DRAWINGS OR AS REQUIRED FOR TELEPHONE, CATV, ALARM SYSTEM EQUIPMENT, ECT. COORDINATE EXACT LOCATION(S) WITH RESPONSIBLE CONTRACTOR(S).
2	PROVIDE (1) 1/2" CONDUIT, AND 4" SQUARE BOX WITH SINGLE GANG DEVICE RING FOR ALL THERMOSTAT LOCATIONS INDICATED ON THE MECHANICAL DRAWINGS. ROUTE CONDUIT FROM BOX TO ACCESSIBLE CEILING CAVITY. PROVIDE PLASTIC BUSHINGS ON EXPOSED CONDUIT ENDS. PROVIDE PULL STRING IN ALL EMPTY CONDUIT SYSTEMS. COORDINATE EXACT LOCATIONS AND MOUNTING HEIGHTS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
3	PROVIDE CABLE HOOKS ABOVE CEILING ON 6' CENTERS IN ALL CORRIDORS. MOUNT 6 INCHES ABOVE CEILING.
4	PROVIDE ROUGH-IN OF ALL BACK BOXES, CONDUITS (WITH BUSHINGS AND PULL STRINGS) AND OTHER WIRE WAYS AS REQUIRED FOR LOW VOLTAGE SYSTEMS. COORDINATE ALL REQUIRED LOCATIONS WITH OWNER AND RESPONSIBLE CONTRACTOR(S).
5	FURNISH AND INSTALL A TELEPHONE SERVICE CONDUIT(S) PER TELEPHONE SERVICE PROVIDER SPECIFICATIONS. STUB UP AT DESIGNATED EQUIPMENT BOARD.
7	ONE #6 COPPER INSULATED GROUND WIRE FROM THE ELECTRICAL SERVICE GROUND TO THE TELEPHONE EQUIPMENT BOARD. LEAVE 36" EXTRA WIRE AT FREE END.
8	FURNISH AND INSTALL A CABLE TV SERVICE CONDUIT(S) PER CABLE TV PROVIDER SPECIFICATIONS. STUB UP AT SERVICE POINT.
9	REFER TO SITE UTILITIES PLAN AND COORDINATE ENTIRE INSTALLATION WITH CABLE TV SERVICE PROVIDER.
9	REFER TO SITE UTILITIES PLAN AND COORDINATE ENTIRE INSTALLATION WITH PHONE SERVICE PROVIDER.
10	PROVIDE BACK BOX AND CONDUIT TO ABOVE THE ACCESSIBLE CEILING AS REQUIRED FOR THE HVAC BUILDING AUTOMATION SYSTEM DEVICES. COORDINATE EXACT LOCATIONS AND OTHER REQUIREMENTS WITH RELATIVE MEP DRAWINGS AND THE CONTROLS CONTRACTOR PRIOR TO ROUGH-IN. THERMOSTATS, TEMPERATURE SENSORS, STATIC PRESSURE SENSORS, HUMIDISTATS, ETC. SHALL BE INSTALLED AT THE SAME ELEVATION AS THE LIGHT SWITCHES UNLESS REQUIRED OTHERWISE.

GENERAL ELECTRICAL NOTES

1	DRAWINGS ARE DIAGRAMMATIC ONLY AND REPRESENT THE GENERAL SCOPE OF THE WORK. REVIEW ALL GENERAL NOTES, SPECIFICATIONS AND PLANS FOR ADDITIONAL REQUIREMENTS THAT MAY NOT BE SPECIFICALLY CALLED OUT IN THIS PORTION OF THE CONSTRUCTION DOCUMENTS.
2	SPECIAL ATTENTION SHALL BE GIVEN TO ALL RACEWAYS WITHIN FINISHED AREAS WITHOUT CEILINGS AND EXPOSED TO STRUCTURE. IN GENERAL, ALL RACEWAYS SHALL BE CONCEALED WITHIN WALLS, ABOVE STRUCTURE FINISH, OR BELOW FLOOR SLABS WHEN SPECIFIED. WHERE EXPOSED CONDITIONS ARE NECESSARY OR UNAVOIDABLE DUE TO OTHER CONDITIONS, THE BID SHALL INCLUDE ANY REASONABLE MEANS TO MINIMIZE THE AMOUNT OF SURFACE MOUNTED EQUIPMENT. PRIOR TO ROUGH-IN, COORDINATE ALL EXPOSED RACEWAY AND BOX CONDITIONS WITH ARCHITECT PRIOR TO CONSTRUCTION OF WALLS, ROOF DECK, OR FLOOR SLABS. ATTACHMENT TO ROOF DECK OR JOIST WEBBINGS IS NOT ALLOWED, MAINTAIN A MINIMUM SPACING OF 1-1/2" FROM CONDUIT TO ROOF DECK. IN AREAS WHERE EXPOSED RACEWAYS ARE REQUIRED, INSTALL SYSTEMS SQUARE AND TIGHT TO STRUCTURE AND PAINT TO MATCH THE STRUCTURE PER ARCHITECT AND/OR OWNER SPECIFICATIONS. FAILURE TO PROPERLY COORDINATE THE ROUTING OF EXPOSED RACEWAYS MAY RESULT IN RELOCATION OF SUCH RACEWAYS AT NO ADDITIONAL COST TO THE OWNER.
3	OPENINGS AROUND ELECTRICAL PENETRATIONS THROUGH FIRE-RESISTANT-RATED WALLS, PARTITIONS, FLOORS OR CEILINGS SHALL BE FIRESTOPPED USING APPROVED METHODS TO MAINTAIN THE FIRE RESISTANCE RATING. PROVIDE PENETRATION FIRE STOPPING WITH RATINGS DETERMINED PER ASTM E 814 OR UL 1479. FIRE STOPPING SHALL NOT BE LESS THAN FIRE RESISTANCE RATING OF CONSTRUCTED PENETRATIONS.
4	FIELD VERIFY LOCATIONS OF EXISTING ELECTRICAL EQUIPMENT, INCLUDING POWER POLES, TELEPHONE PEDESTALS, OVERHEAD AND UNDERGROUND FEEDERS, METERS, PANELS, DEVICES, ETC. PROVIDE FOR COORDINATION WITH EXISTING EQUIPMENT.
5	ALL WORK IS TO BE PERFORMED IN STRICT COMPLIANCE WITH THE CURRENT EDITION OF THE NATIONAL ELECTRICAL CODE, STATE LAWS, ALL AUTHORITIES HAVING JUISDICTION, AND ALL OTHER REGULATIONS GOVERNING WORK OF THIS NATURE.
6	THE CONTRACTOR IS RESPONSIBLE FOR ALL WORK, MATERIAL, AND LABOR TO SATISFY A COMPLETE AND WORKING SYSTEM WHETHER SPECIFIED OR IMPLIED.
7	CONTRACTOR TO CONFIRM EXACT LOCATION OF EXISTING AND NEW EQUIPMENT.
8	THE CONTRACTOR SHALL FURNISH AND INSTALL ALL GROUNDING SYSTEMS (AS REQUIRED) IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE.
9	ALL ELECTRIC MATERIALS AND EQUIPMENT FOR THE PROJECT SHALL BE NEW AND U.L. OR EQUALLY LISTED.
10	SUBMIT TO THE OWNER CERTIFICATES OF INSPECTIONS IN DUPLICATE FROM AN APPROVED INSPECTION AGENCY UPON COMPLETION.
11	THE CONTRACTOR SHALL SECURE ALL PERMITS OR APPLICATIONS AND PAY ANY AND ALL FEES AS REQUIRED,
12	THE CONTRACTOR SHALL FURNISH ALL INSTRUMENTS AND QUALIFIED PERSONNEL OR FIRM TO PERFORM ALL REQUIRED TESTS.
13	ALL ELECTRICAL WORK SHALL BE COORDINATED WITH THE MECHANICAL WORK AS CALLED FOR IN MECHANICAL SPECIFICATIONS AND PLANS.
14	THE TYPE OF CONDUIT SHALL BE AS FOLLOWS FOR ALL FEEDERS AND DISTRIBUTION CIRCUITS, UNLESS OTHERWISE SPECIFIED. APPLICATION - TYPE OF CONDUIT BURIED IN CONCRETE OR OUTDOORS - PVC WITH RIGID GALVANIZED STEEL ELBOWS SERVICE ENTRANCE - GALVANIZED RIGID STEEL OR SERVICE UTILITY SPECIFICATIONS.
15	UNDERGROUND UTILITIES/FEEDERS/BRANCH CIRCUITS/ETC. SHALL NOT BE ROUTED THROUGH OR WITHIN 25 FEET OF ANY AREAS DEDICATED FOR FUTURE BUILDING ADDITION.
16	FURNISH AND INSTALL MATERIALS FOR A TEMPORARY CONSTRUCTION SERVICE AS REQUIRED.
17	FURNISH AND INSTALL A COMMUNICATION SERVICE CONDUIT(S) PER TELEPHONE SERVICE PROVIDER SPECIFICATION. STUB UP AT DESIGNATED EQUIPMENT BOARD.
18	FURNISH AND INSTALL A CABLE TV SERVICE CONDUIT(S) PER CABLE TV PROVIDER SPECIFICATIONS. STUB AT SERVICE POINT.
19	REFER TO SITE UTILITIES PLAN AND COORDINATE ENTIRE INSTALLATION WITH CABLE TV SERVICE PROVIDER.
20	REFER TO SITE UTILITIES PLAN AND COORDINATE ENTIRE INSTALLATION WITH COMMUNICATION SERVICE PROVIDER.

ABBREVIATIONS

AC	ABOVE COUNTER	IG	ISOLATED GROUND
AFF	ABOVE FINISHED FLOOR	MCC	MOTOR CONTROL CENTER
CB	CIRCUIT BREAKER	NEC	NATIONAL ELECTRICAL CODE
E	EXISTING	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOC.
EC	ELECTRICAL CONTRACTOR	NIC	NOT IN CONTRACT
EP	EXPLOSION PROOF	NL	NIGHT LIGHT
GFI	GROUND FAULT CIRCUIT INTERRUPTER	UG	UNDERGROUND
GR	GROUND	UON	UNLESS OTHERWISE NOTED
HP	HORSE POWER	WP	WEATHERPROOF
		WR	WEATHER RESISTANT

WIRING

- WIRING CONCEALED IN CEILING OR WALLS UON. ALL WIRE IS NUMBER #12 AWG MINIMUM.
- EXPOSED RACEWAY.
- UNDERGROUND RACEWAY; TYPE, SIZE, CONDUCTORS, AND ARRANGEMENT BY NOTATION OR SCHEDULE.

SWITCHES

$* SWITCH MOUNTED AT +48"; SINGLE POLE UON.
LOWER CASE LETTER, WHEN PRESENT, INDICATES FIXTURES CONTROLLED.

* ABBREVIATIONS FOR SWITCH.

2	DOUBLE POLE SWITCH
3	3-WAY SWITCH
4	4-WAY SWITCH
D	DIMMER SWITCH (SHALL BE COMPATABLE WITH FIXTURE BEING DIMMED)
F	FAN SWITCH: DUAL OPERATION WITH DIMMER
K	KEYED SWITCH
M	MOTOR RATED SWITCH
OS	DUAL TECHNOLOGY OCCUPANCY SENSOR
V	VOLUME CONTROL SWITCH

◇OS CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR WITH SPARE DRY CONTACTS. HUBBELL OMNIDIARP SERIES

RECEPTACLES

- DUPLEX RECEPTACLE (NEMA 5-20R)
- DUPLEX RECEPTACLE (NEMA 5-20R); MOUNTED 8" ABOVE COUNTERTOP.
- U (ALL RECEPTACLE TYPES) WITH USB CHARGING PORTS
- GFI DUPLEX RECEPTACLE (NEMA 5-20R), SELF-TEST TYPE
- GFI DUPLEX RECEPTACLE (NEMA 5-20R), SELF-TEST TYPE; MOUNTED 8" ABOVE COUNTERTOP.
- QUADRUPLEX RECEPTACLE (TWO NEMA 5-20R)
- SPECIAL RECEPTACLE: VERIFY NEMA TYPE WITH MANUFACTURER
- AV FLOOR BOX WITH DATA: LEGRAND WIREMOLD SERIES RFB4E-OG OR RFB6E-OG WITH EVOLUTION COVER. ROUTE (2)1" FOR DATA FROM FLOOR BOX TO NEAREST ACCESSIBLE CEILING SPACE. ON FLOOR LEVELS WITH ACCESSIBLE SPACE BELOW, USE POKE-THRU STYLE FLOOR BOXES: LEGRAND 6AT SERIES. SEE ARCHITECTURAL PLANS FOR LOCATION UON.

  TELEVISION: PROVIDE HUBBELL NSAV62M JUNCTION BOX (OR EQUAL) WITH 1/2" CONDUIT FOR POWER AND 1" CONDUIT (WITH PULL STRINGS) FOR A/V ROUTED TO ACCESSIBLE CEILING SPACE. PROVIDE CONNECTIONS FOR POWER, DATA, COAX, AND HDMI. MOUNT AT +60" AFF UNO. CONFRIM HEIGHTS WITH ARCHITECT PRIOR TO ROUGH-IN.
- SINGLE RECEPTACLE (NEMA 5-20R)
- SPLIT WIRED DUPLEX RECEPTACLE (NEMA 5-20R)
- DIRECT EQUIPMENT CONNECTION: VERIFY CONNECTION DETAILS WITH MANUFACTURER
- FLOOR BOX: HUBBEL 3SFBSS WITH 3SFBC COVER. EC SHALL ROUTE A 1"C FOR FLOOR BOX TO NEAREST ACCESSIBLE CEILING SPACE. ON FLOOR LEVELS WITH ACCESSIBLE SPACE BELOW, USE POKE-THRU STYLE FLOOR BOXES: HUBBELL PT2X2 SERIES. SEE ARCHITECTURAL PLANS FOR LOCATION UON.
- CEILING MOUNTED RECEPTACLE(NEMA 5-20R)

PANELS AND MISC.

- LIGHT OR POWER PANEL
- J 4x4 JUNCTION BOX.
- EQUIPMENT DISCONNECT: INTERIOR DISCONNECTS SHALL BE NEMA 1 TYPE. EXTERIOR DISCONNECTS SHALL BE NEMA 3R TYPE. SIZE AS INDICATED IN THE PLANS AND PER NAMEPLATE RATING.
- PHONE/DATA: PROVIDE 4"X4", 30-1/4 CUBIC INCH OUTLET BOX AT 8" ABOVE COUNTER (UON) WITH (2) 3/4" CONDUITS (WITH PULL STRINGS) ROUTED TO ACCESSIBLE CEILING SPACE. PROVIDE SINGLE GANG MUD RING WITH BLANK COVER. PROVIDE PLASTIC BUSHINGS ON EXPOSED CONDUIT ENDS. WIRING BY OTHERS.
- PHONE/DATA: PROVIDE 4"X4", 30-1/4 CUBIC INCH OUTLET BOX AT +18" (UON) WITH (2) 3/4" CONDUITS (WITH PULL STRINGS) ROUTED TO ACCESSIBLE CEILING SPACE. PROVIDE SINGLE GANG MUD RING WITH BLANK COVER. PROVIDE PLASTIC BUSHINGS ON EXPOSED CONDUIT ENDS. WIRING BY OTHERS.
- PHONE/DATA: PROVIDE 4"X4", 30-1/4 CUBIC INCH OUTLET BOX IN CEILING. PROVIDE SINGLE GANG MUD RING WITH BLANK COVER. WIRING BY OTHERS.
- TV TELEVISION: PROVIDE 4X4 JUNCTION BOX WITH (2) 3/4" CONDUITS (WITH PULL STRINGS) ROUTED TO ACCESSIBLE CEILING SPACE. PROVIDE SINGLE GANG MUD RING WITH BLANK COVER. CONFRIM HEIGHTS WITH ARCHITECT PRIOR TO ROUGH-IN.
- S CEILING MOUNTED SPEAKER
- CR CARD READER: REFER TO SYSTEM PLANS AND SPECIFICATIONS. AT EACH DOOR WITH A CARD READER PROVIDE ALL ELECTRICAL CONNECTIONS FOR DOOR HARDWARE SYSTEMS AS REQUIRED TO MAKE A COMPLETE OPERATIONAL SYSTEM. WHERE REQUIRED, BACK TO BACK 2"X4" BOXES ARE ALLOWED FOR CARD READER AND PUSH TO EXIT SWITCH. PROVIDE POWER TO THE LOCK SYSTEM IN THE I.T. ROOM WHERE NEEDED BY CONTRACTOR INSTALLING SYSTEM.

FLOOR BOX SCHEDULE

FB	QUAD ONLY	FB5	DUPLEX ONLY
FB1	QUAD AND ONE DATA	FB6	DUPLEX AND ONE DATA
FB2	QUAD AND TWO DATA	FB7	DUPLEX AND TWO DATA
FB3	QUAD AND THREE DATA	FB8	DUPLEX AND THREE DATA
FB4	QUAD AND FOUR DATA	FB9	DUPLEX AND FOUR DATA

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TAHLEQUAH, OKLAHOMA

KEY PLAN:

PROJECT PHASE:

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REVISIONS

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DATE:	JOB NUMBER:
07-26-19	17-13

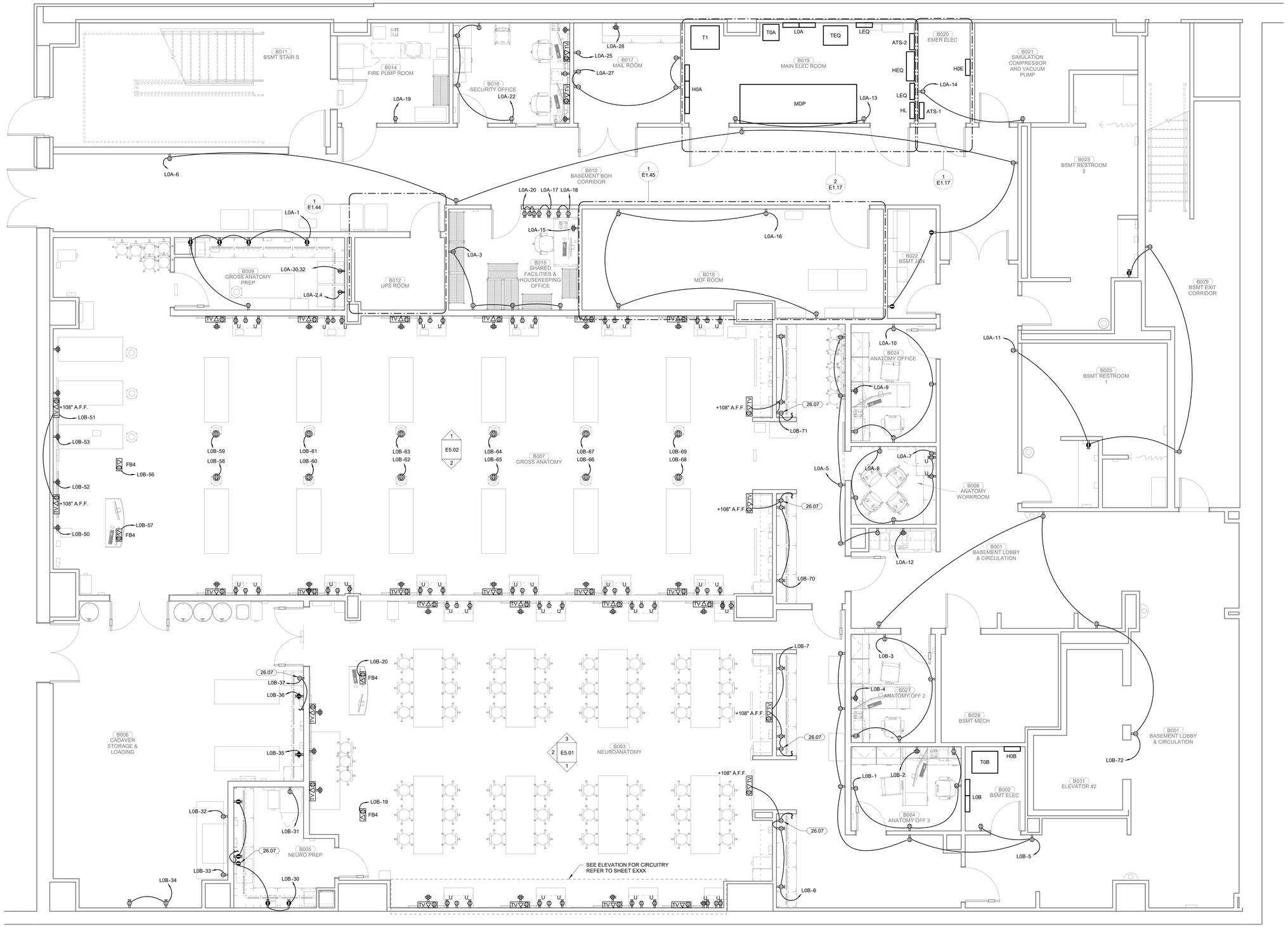
SHEET NUMBER:

E1.00

ELECTRICAL NOTES AND LEGEND

KEYNOTES

26.07	RECEPTACLE TO BE MOUNTED AT 72" A.F.F AND CONNECTED TO INDIVIDUAL TOGGLE SWITCH FOR UNDERCABINET LIGHTING CONTROL.



1 GROSS ANATOMY PREP
1/4" = 1'-0"

PLAN NORTH
TRUE NORTH

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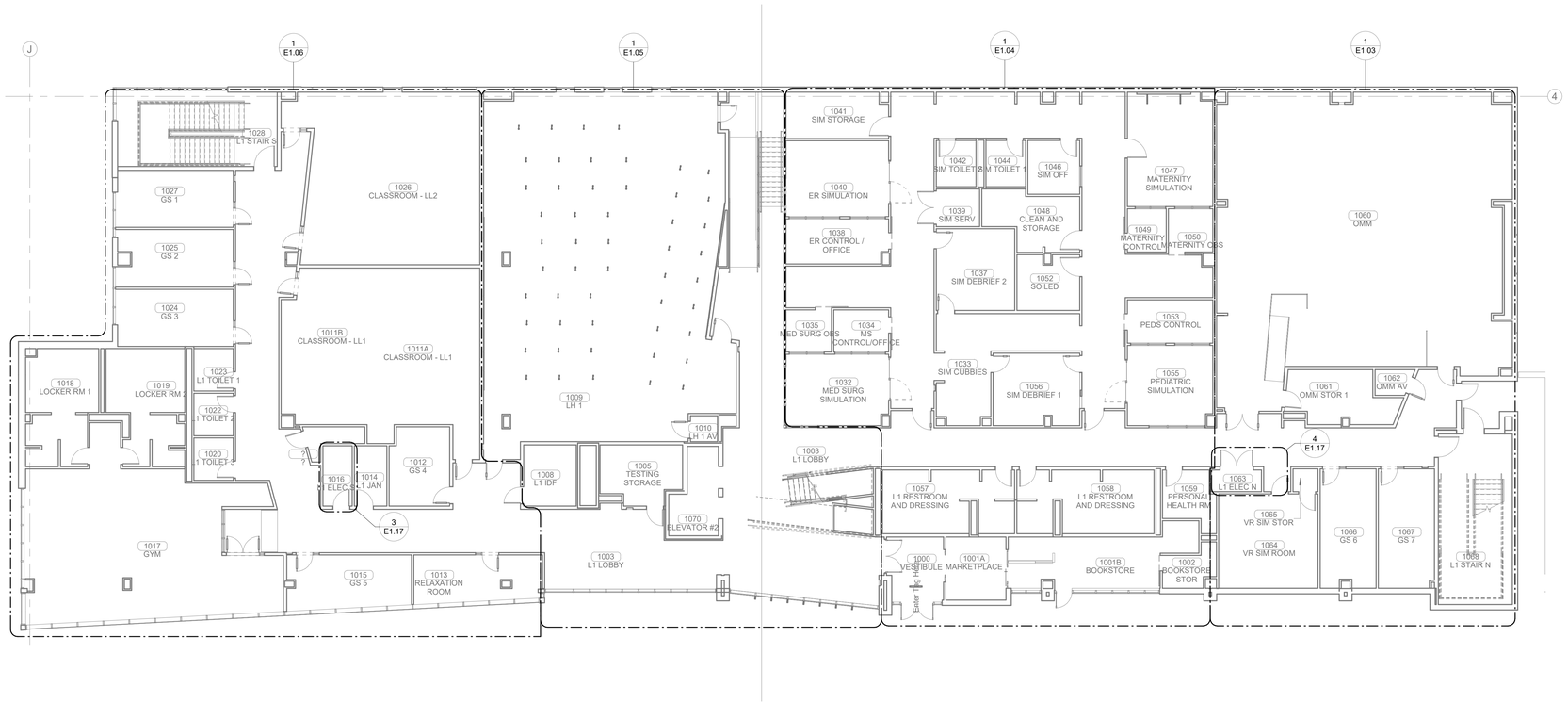
POWER PLAN BASEMENT SECTOR 02



1 OVERALL POWER PLAN - LEVEL 01

3/32" = 1'-0"

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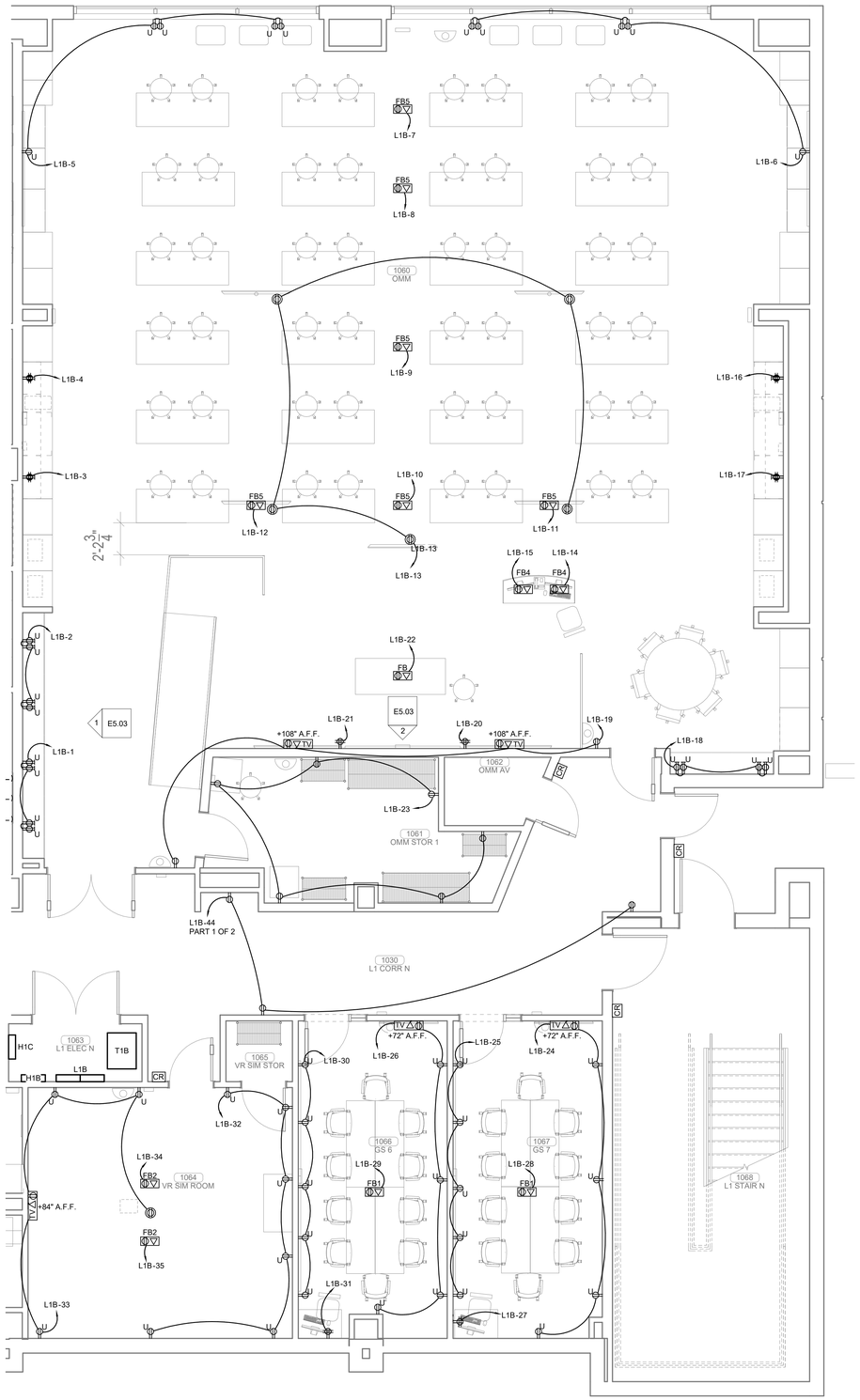
E1.02

OVERALL POWER PLAN - LEVEL 01



PLAN NORTH

TRUE NORTH

1 ENLARGED POWER PLAN LEVEL 01 SECTOR 01

1/4" = 1'-0"

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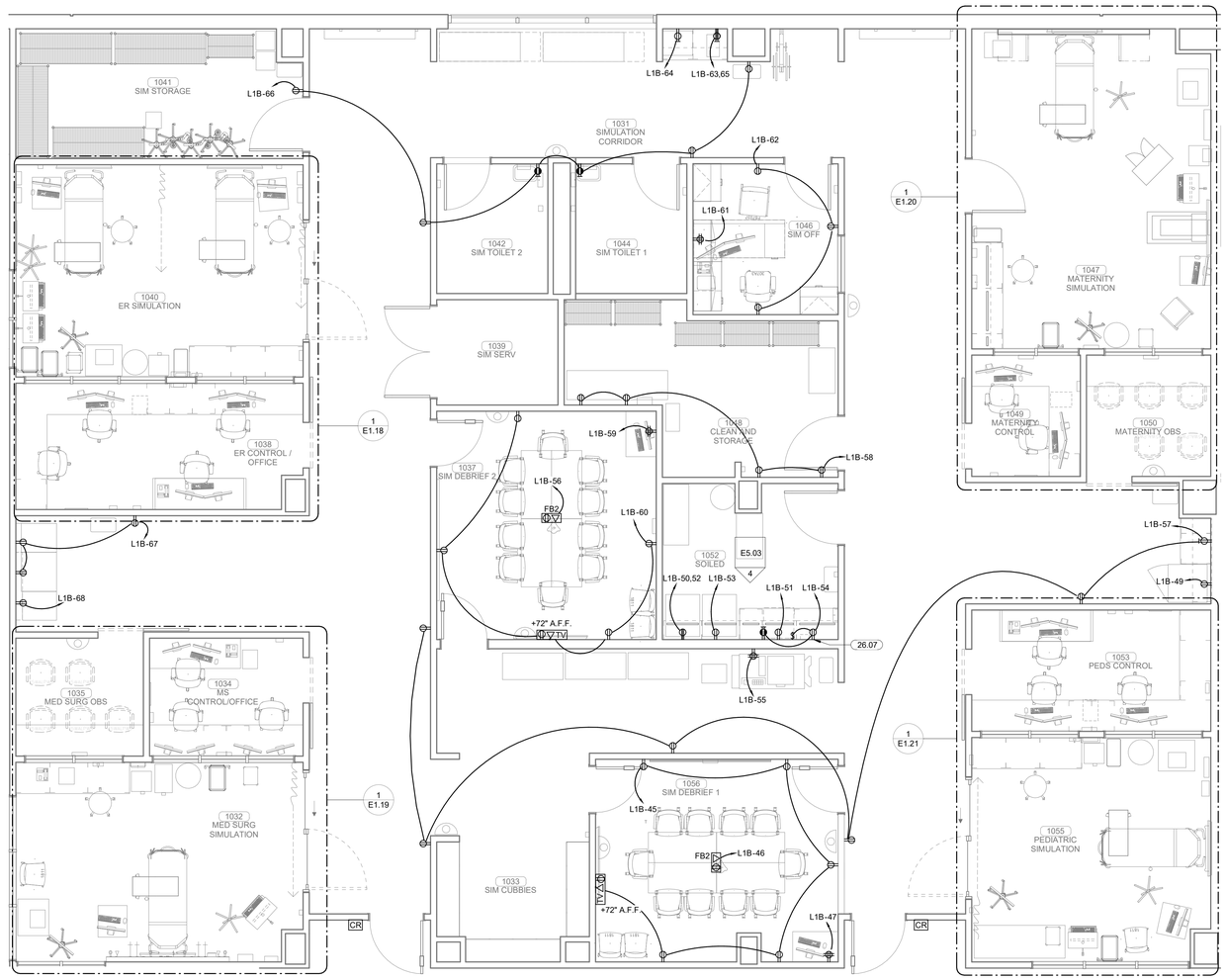
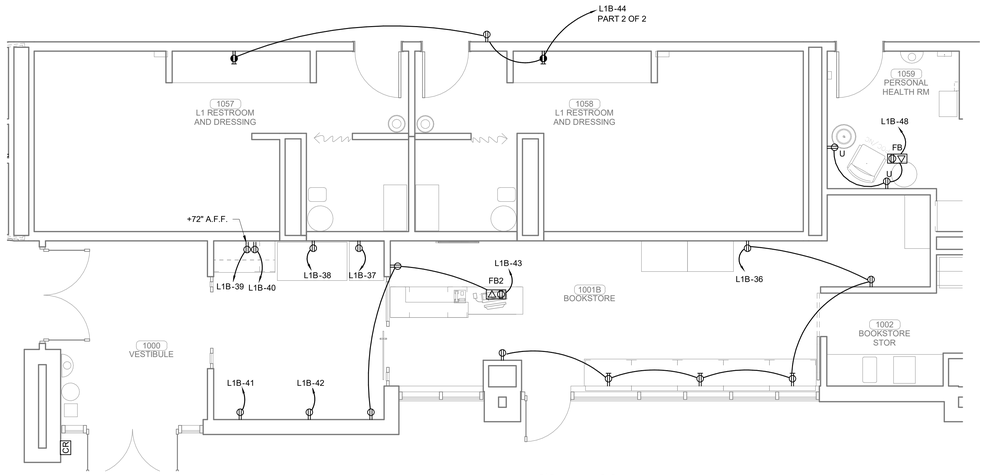
ENLARGED POWER PLAN LEVEL 01 SECTOR 01

KEYNOTES

26.07	RECEPTACLE TO BE MOUNTED AT 72" A.F.F AND CONNECTED TO INDIVIDUAL TOGGLE SWITCH FOR UNDERCABINET LIGHTING CONTROL.





PLAN NORTH

TRUE NORTH

1 ENLARGED POWER PLAN LEVEL 01 SECTOR 01

1/4" = 1'-0"

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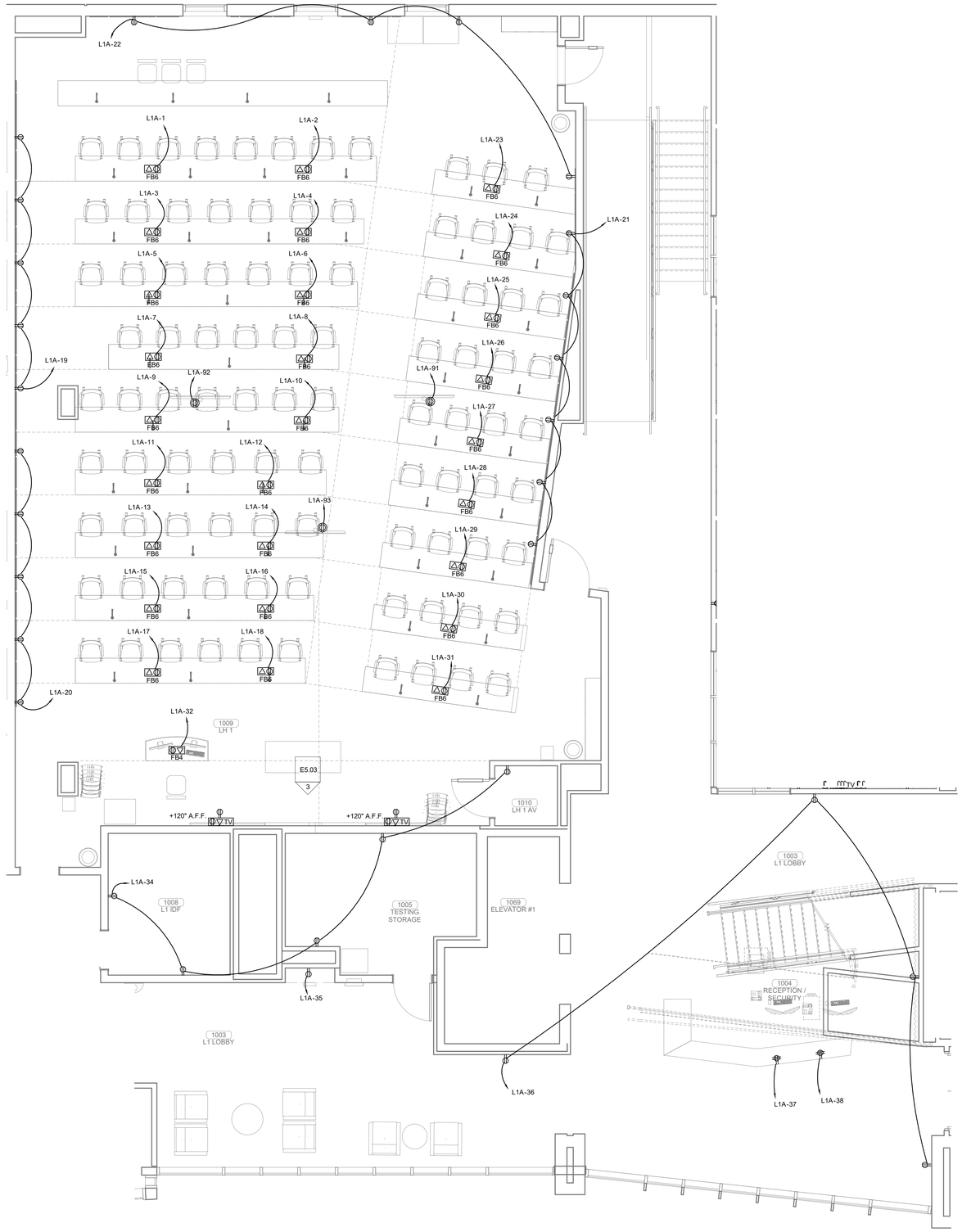
E1.04

ENLARGED POWER PLAN LEVEL 01 SECTOR 01



PLAN NORTH

TRUE NORTH

1 ENLARGED POWER PLAN LEVEL 01 SECTOR 02

1/4" = 1'-0"

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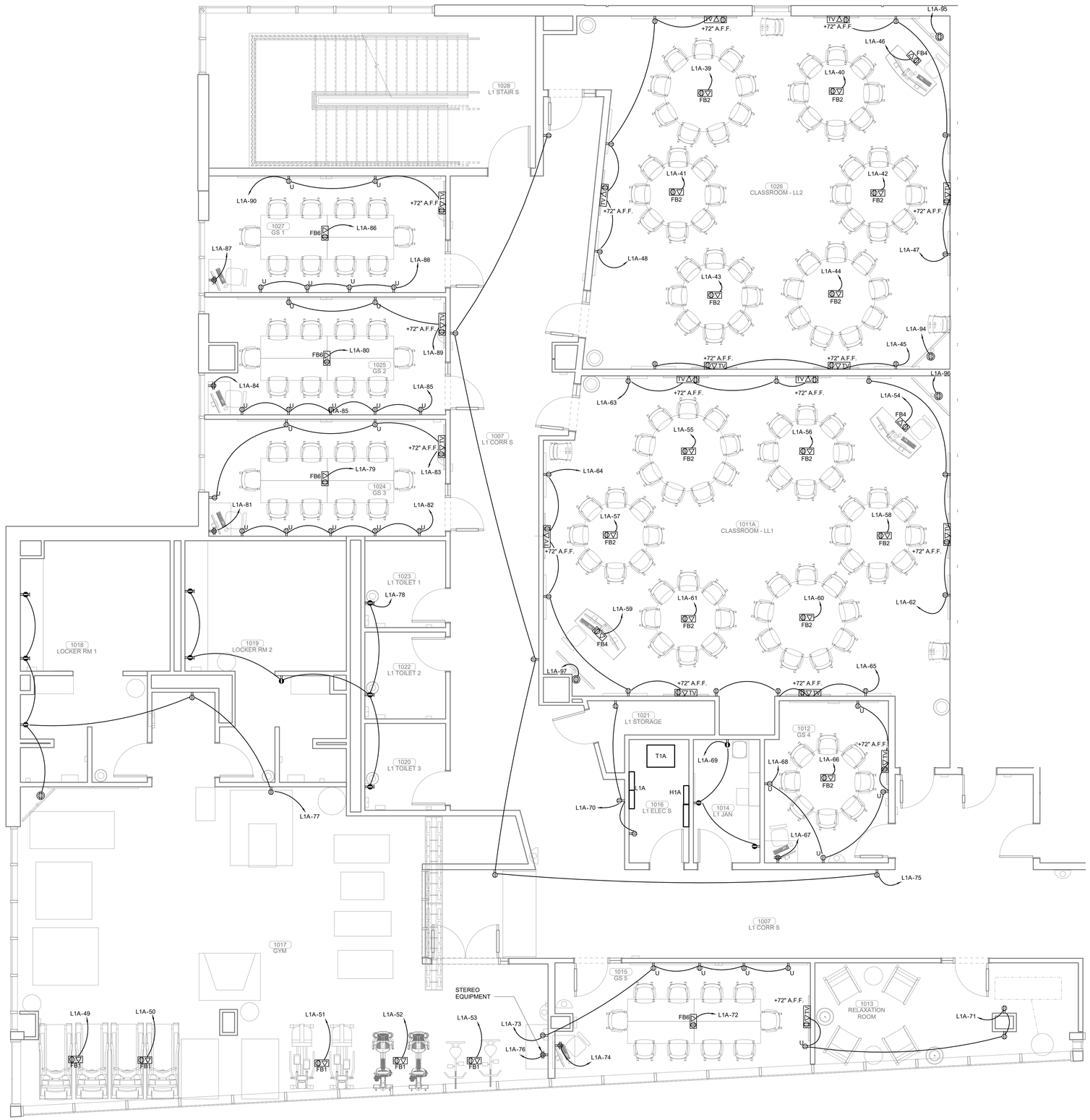
ENLARGED POWER PLAN LEVEL 01 SECTOR 02



PLAN NORTH

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1 ENLARGED POWER PLAN LEVEL 01 SECTOR 02

1/4" = 1'-0"

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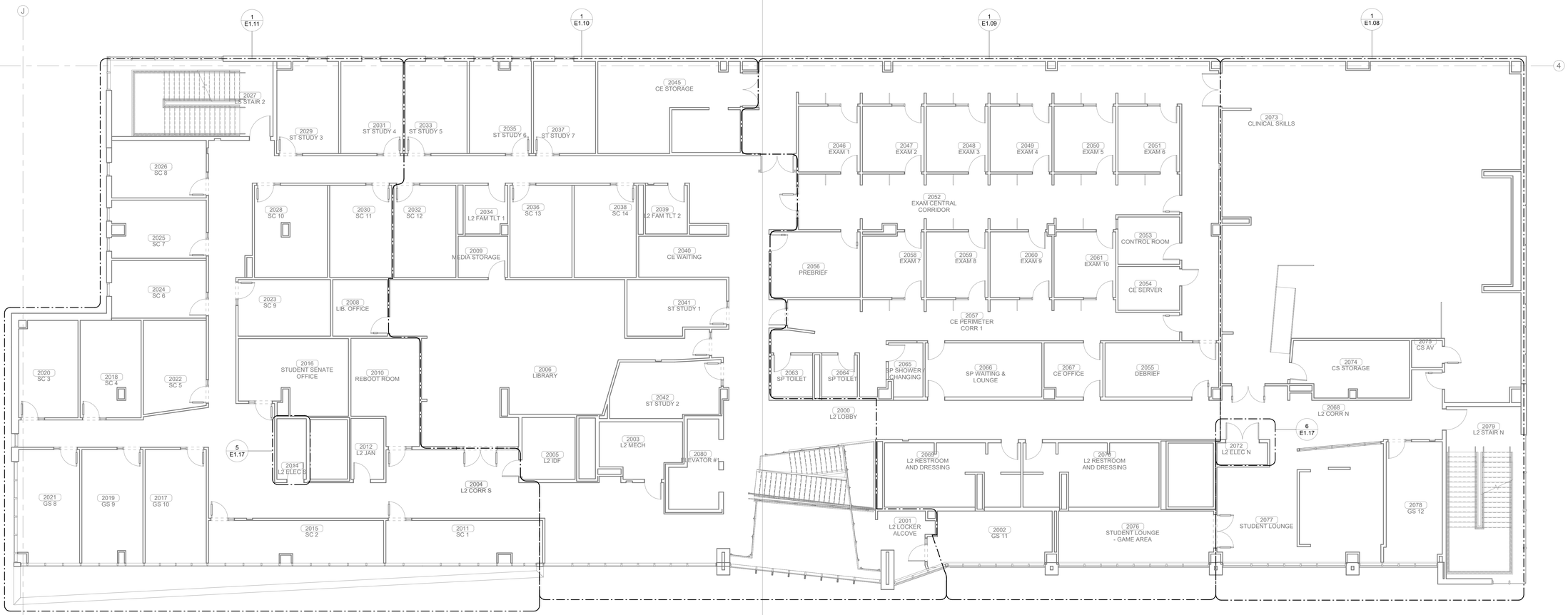
E1.06

ENLARGED POWER PLAN LEVEL 01 SECTOR 02



PLAN NORTH

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1 OVERALL POWER PLAN - LEVEL 02

1/8" = 1'-0"

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DATE:	JOB NUMBER:
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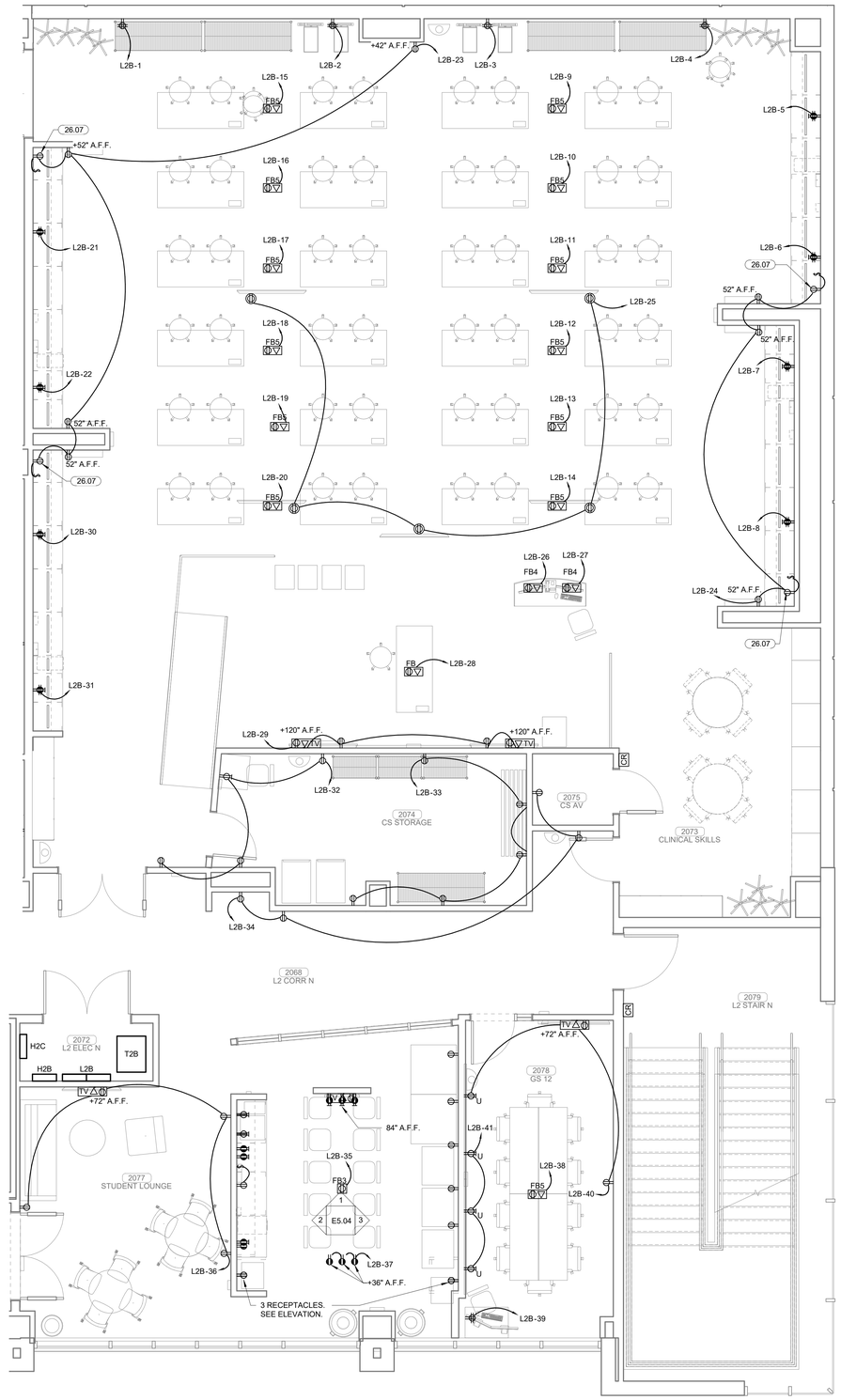
E1.07

OVERALL POWER PLAN - LEVEL 02

KEYNOTES

26.07	RECEPTACLE TO BE MOUNTED AT 72" A.F.F AND CONNECTED TO INDIVIDUAL TOGGLE SWITCH FOR UNDERCABINET LIGHTING CONTROL.



PLAN NORTH

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1 ENLARGED POWER PLAN LEVEL 02 SECTOR 01

1/4" = 1'-0"

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PROJECT PHASE:

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REVISIONS

#	DATE	DESCRIPTION

DATE:	JOB NUMBER:
07-26-19	17-13

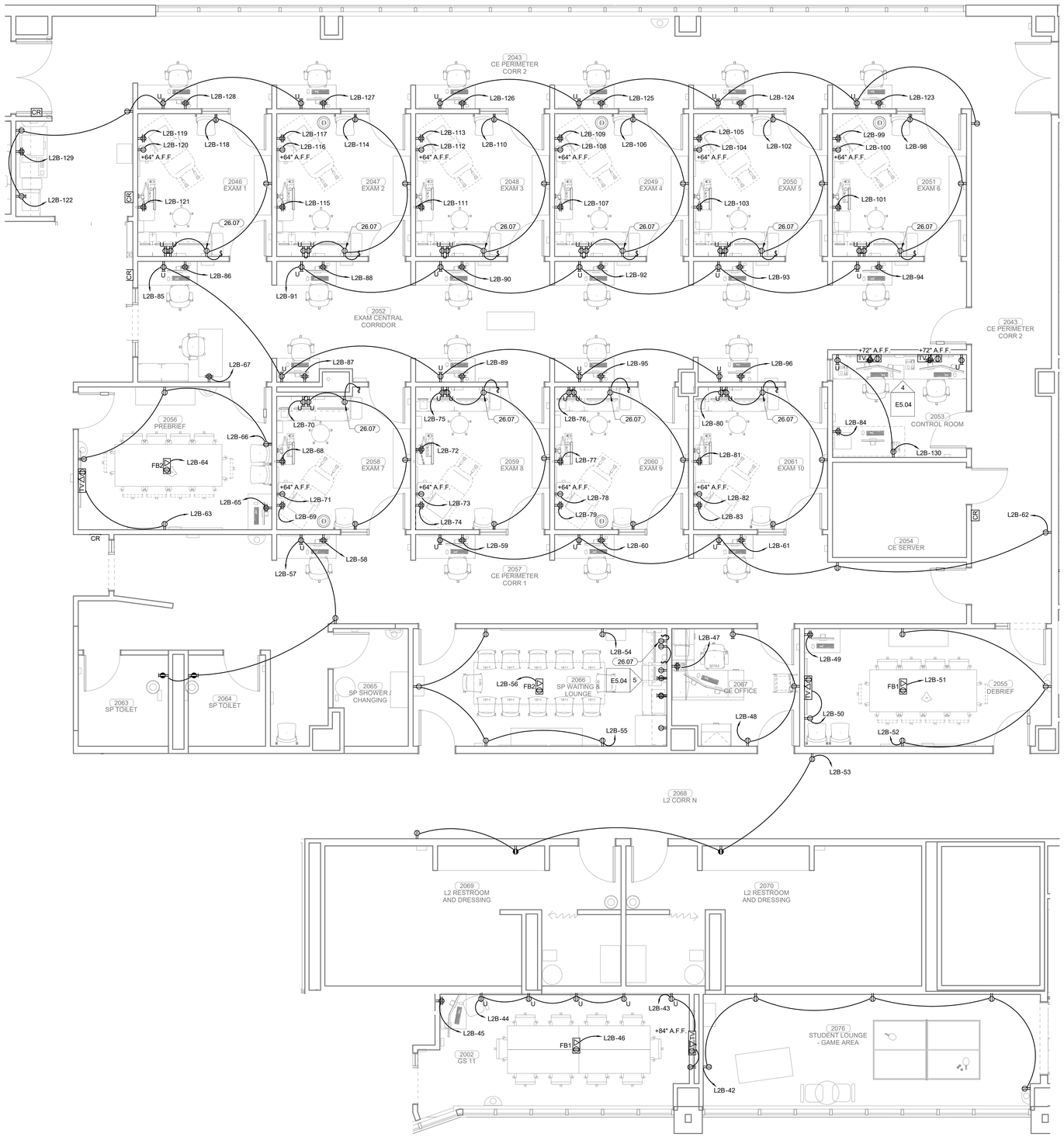
SHEET NUMBER:

E1.08

ENLARGED POWER PLAN LEVEL 02 SECTOR 01

KEYNOTES

26.07 RECEPTACLE TO BE MOUNTED AT 72" A.F.F AND CONNECTED TO INDIVIDUAL TOGGLE SWITCH FOR UNDERCABINET LIGHTING CONTROL.



1 ENLARGED POWER PLAN LEVEL 02 SECTOR 01
1/4" = 1'-0"

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KEY PLAN:

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PROJECT PHASE:

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DOCUMENTS

REVISIONS

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DATE:	JOB NUMBER:
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SHEET NUMBER:

E1.09

ENLARGED POWER PLAN
LEVEL 02 SECTOR 01

KEYNOTES

26.06	J-BOXES TO BE MOUNTED IN WALL AT 18" A.F.F. FOR FUTURE CONNECTION TO FURNITURE. NO MORE THEN THREE STUDY CARRELS PER CIRCUIT, REFER TO xxx FOR FURNITURE CONNECTION INFORMATION.
26.07	RECEPTACLE TO BE MOUNTED AT 72" A.F.F AND CONNECTED TO INDIVIDUAL TOGGLE SWITCH FOR UNDERCABINET LIGHTING CONTROL.

KEYNOTES

26.06	J-BOXES TO BE MOUNTED IN WALL AT 18" A.F.F. FOR FUTURE CONNECTION TO FURNITURE. NO MORE THEN THREE STUDY CARRELS PER CIRCUIT, REFER TO xxx FOR FURNITURE CONNECTION INFORMATION.
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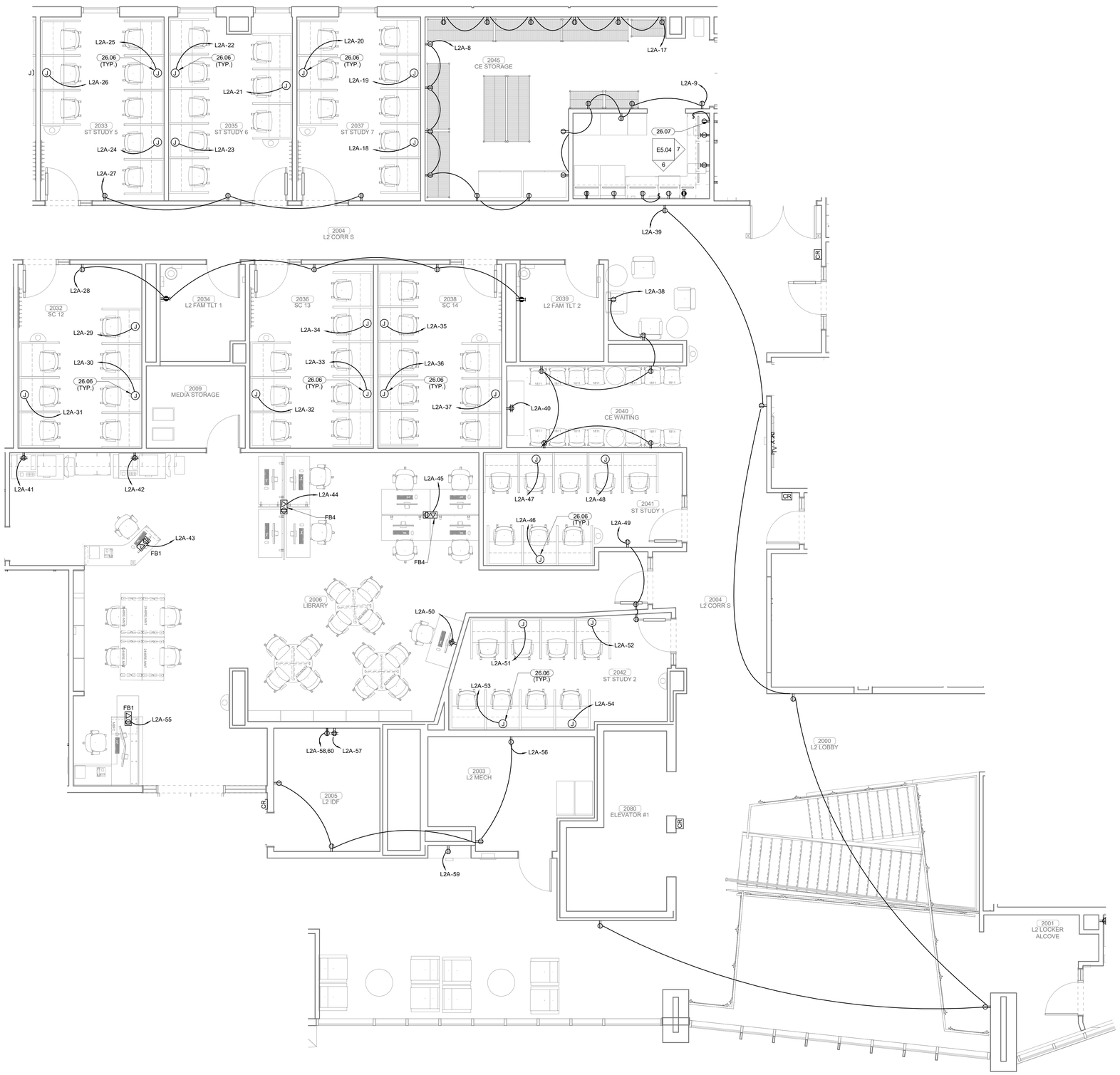

PLAN NORTH

TRUE NORTH

1 ENLARGED POWER PLAN LEVEL 02 SECTOR 02

1/4" = 1'-0"

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CLIENT:

COLLEGE OF Osteopathic Medicine AT THE CHEROKEE NATION

TAHLEQUAH, OKLAHOMA

KEY PLAN:

02 01

PROJECT PHASE:

95% CONSTRUCTION DOCUMENTS

REVISIONS

#	DATE	DESCRIPTION

DATE:	JOB NUMBER:
07-26-19	17-13

SHEET NUMBER:

E1.10

ENLARGED POWER PLAN LEVEL 02 SECTOR 02

KEYNOTES

26.06	J-BOXES TO BE MOUNTED IN WALL AT 18" A.F.F. FOR FUTURE CONNECTION TO FURNITURE. NO MORE THEN THREE STUDY CARRELS PER CIRCUIT. REFER TO xxx FOR FURNITURE CONNECTION INFORMATION.

PLAN NORTH

TRUE NORTH

1 ENLARGED POWER PLAN LEVEL 02 SECTOR 02

1/4" = 1'-0"

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TAHLEQUAH, OKLAHOMA

KEY PLAN:

02 01

PROJECT PHASE:

95% CONSTRUCTION DOCUMENTS

REVISIONS

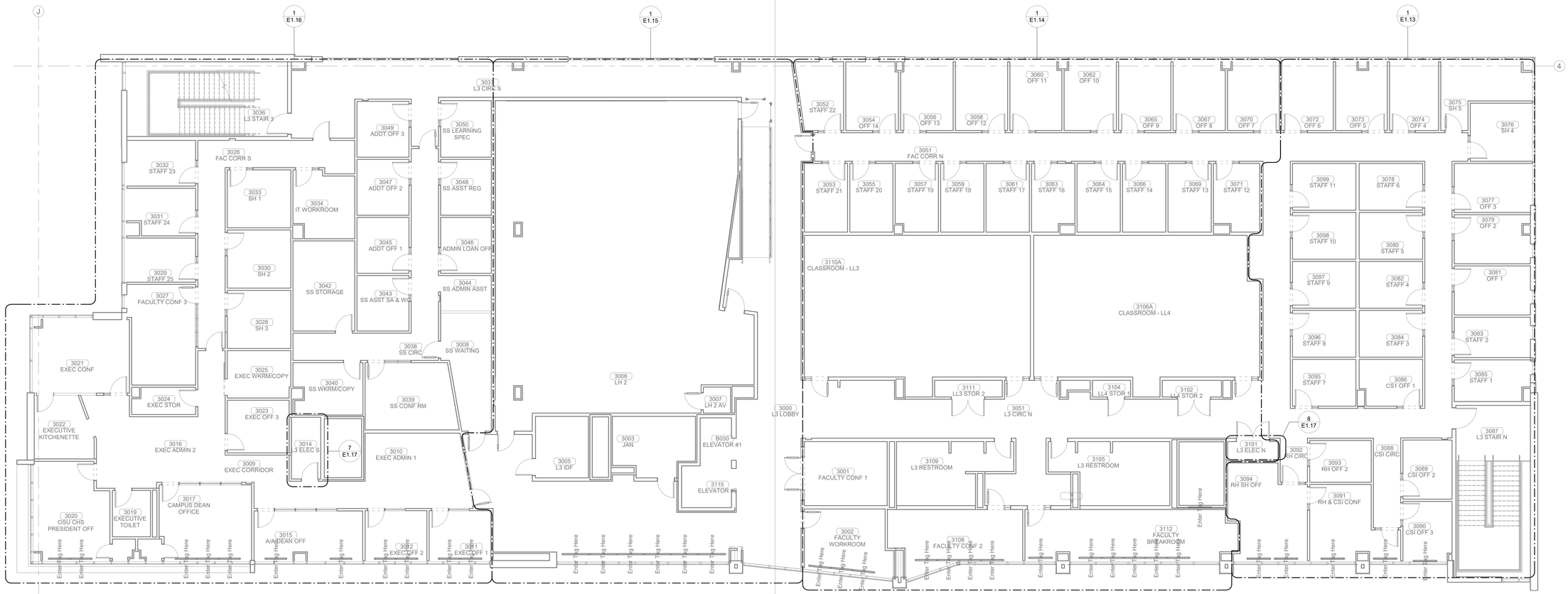
#	DATE	DESCRIPTION

DATE:	JOB NUMBER:
07-26-19	17-13

SHEET NUMBER:

E1.11

ENLARGED POWER PLAN LEVEL 02 SECTOR 02



PLAN NORTH

TRUE NORTH

1 OVERALL POWER PLAN LEVEL 03

1/8" = 1'-0"

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TAHLEQUAH, OKLAHOMA

KEY PLAN:

02 01

PROJECT PHASE:

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REVISIONS

#	DATE	DESCRIPTION

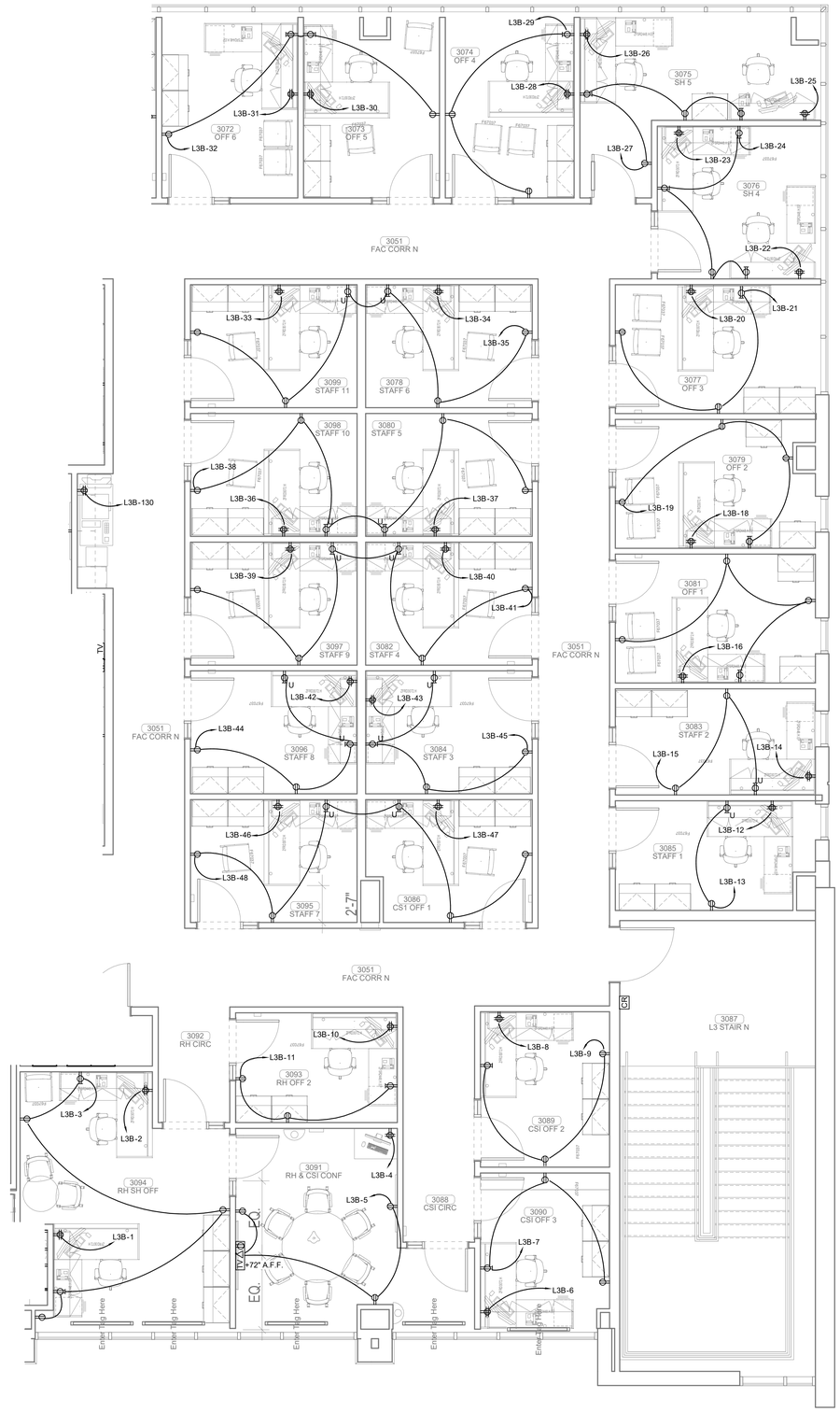
DATE: 07-26-19

JOB NUMBER: 17-13

SHEET NUMBER:

E1.12

OVERALL POWER PLAN - LEVEL 03



PLAN NORTH

TRUE NORTH

1 ENLARGED POWER PLAN LEVEL 03 SECTOR 01

1/4" = 1'-0"

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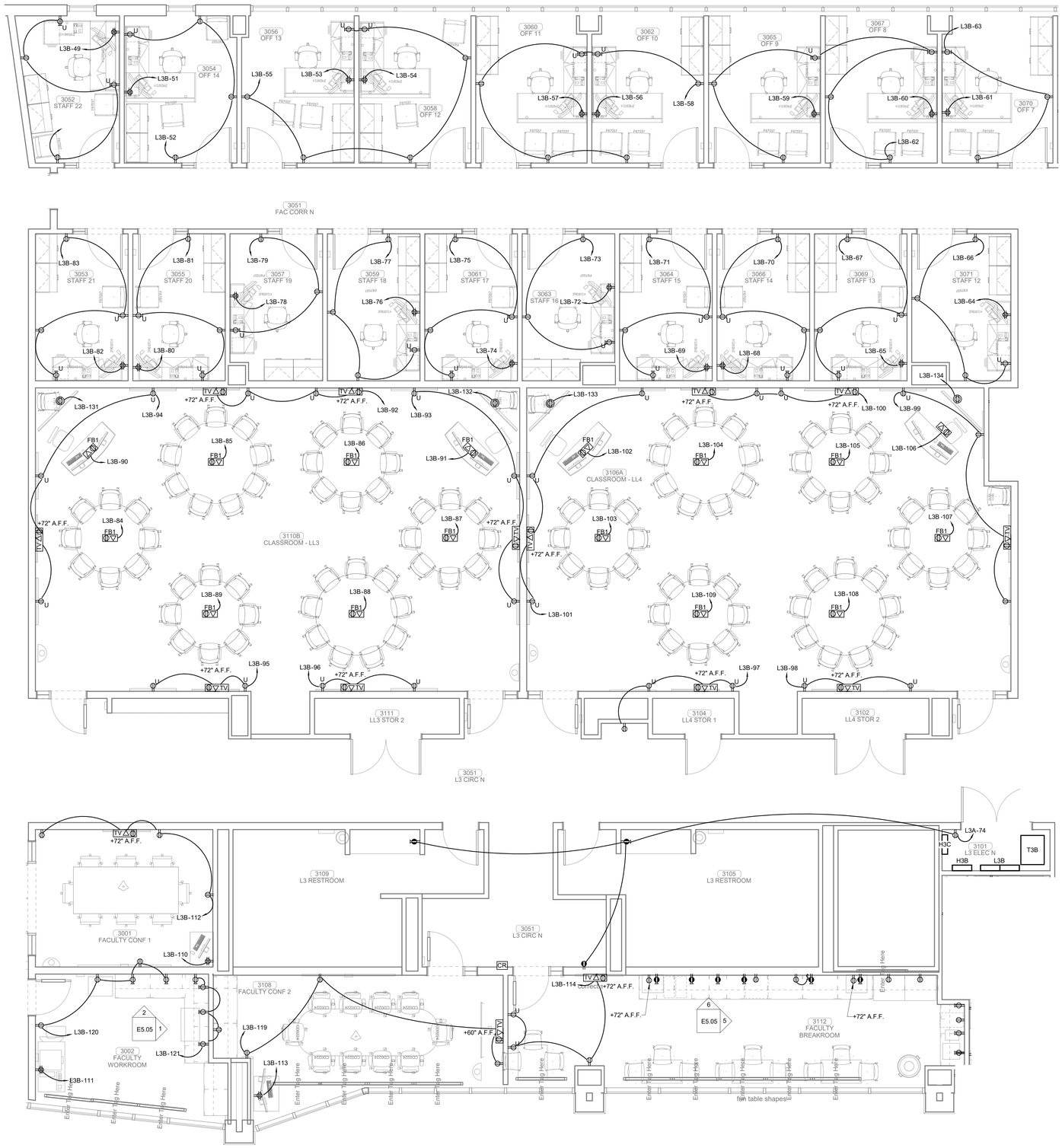
07-26-19	17-13

SHEET NUMBER:

E1.13

ENLARGED POWER PLAN LEVEL 03 SECTOR 01



PLAN NORTH

TRUE NORTH

1 ENLARGED POWER PLAN LEVEL 03 SECTOR 01

1/4" = 1'-0"

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REVISIONS

#	DATE	DESCRIPTION

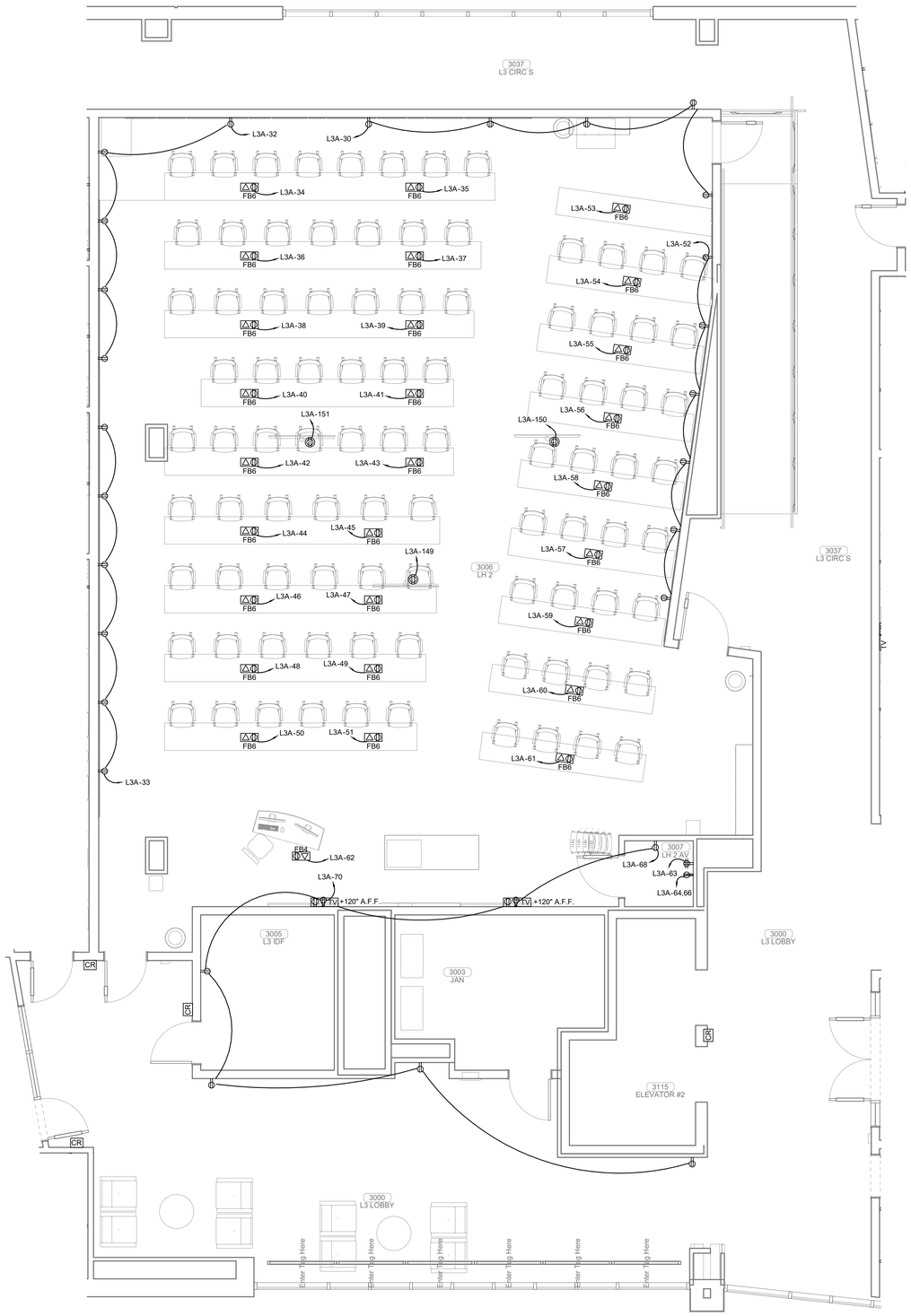
DATE: 07-26-19

JOB NUMBER: 17-13

SHEET NUMBER:

E1.14

ENLARGED POWER PLAN LEVEL 03 SECTOR 01



PLAN TRUE

1 ENLARGED POWER PLAN LEVEL 03 SECTOR 02
1/4" = 1'-0"

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KEY PLAN:

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REVISIONS

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DATE:	JOB NUMBER:
07-26-19	17-13

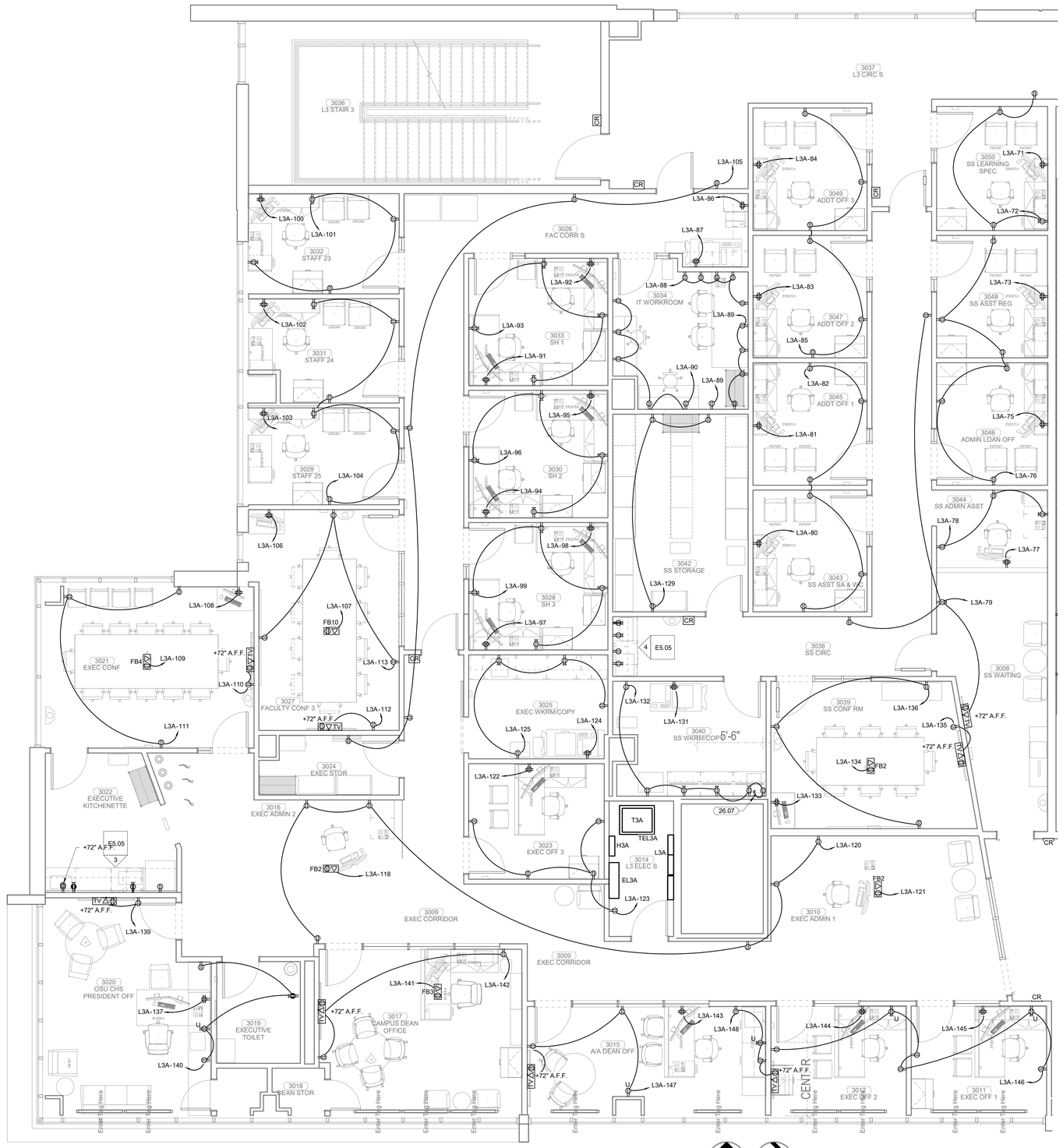
SHEET NUMBER:

E1.15

ENLARGED POWER PLAN LEVEL 03 SECTOR 02

KEYNOTES

26.07 RECEPTACLE TO BE MOUNTED AT 72" A.F.F AND CONNECTED TO INDIVIDUAL TOGGLE SWITCH FOR UNDERCABINET LIGHTING CONTROL.



PLAN NORTH

TRUE NORTH

1 ENLARGED POWER PLAN LEVEL 03 SECTOR 02
1/4" = 1'-0"

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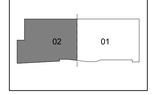
KEY PLAN:



PROJECT PHASE:

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REVISIONS:

#	DATE	DESCRIPTION

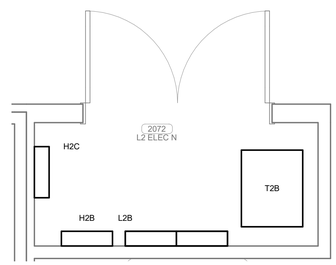
DATE: 07-26-19

JOB NUMBER: 17-13

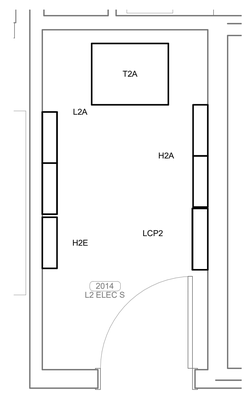
SHEET NUMBER:

E1.16

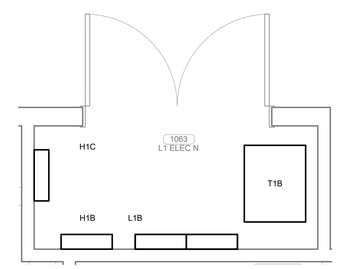
ENLARGED POWER PLAN LEVEL 03 SECTOR 02



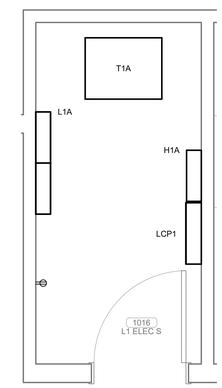
6 ENLARGED ELECTRICAL ROOM 2B
1/2" = 1'-0"



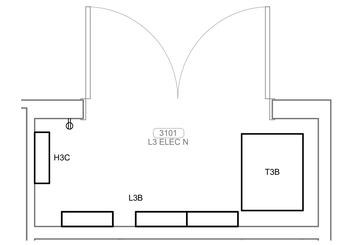
5 ENLARGED ELECTRICAL ROOM 2A
1/2" = 1'-0"



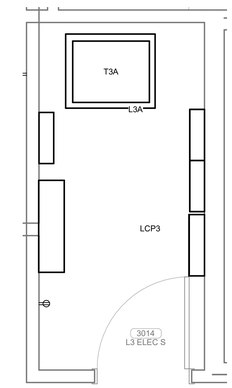
4 ENLARGED ELECTRICAL ROOM 1B
1/2" = 1'-0"



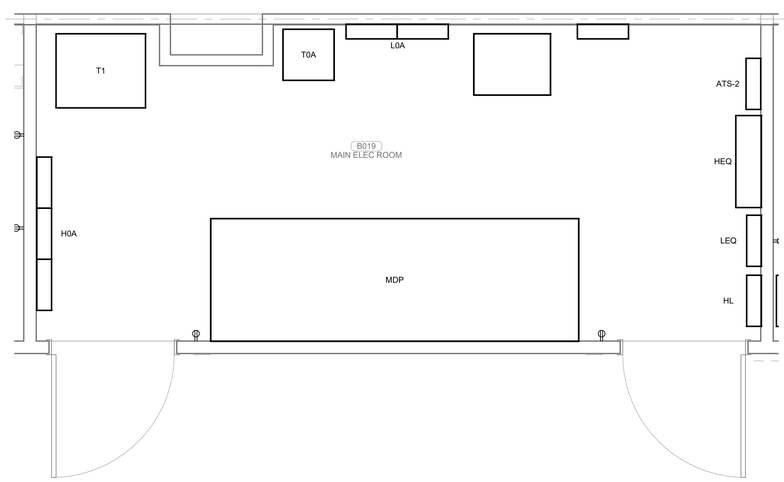
3 ENLARGED ELECTRICAL ROOM 1A
1/2" = 1'-0"



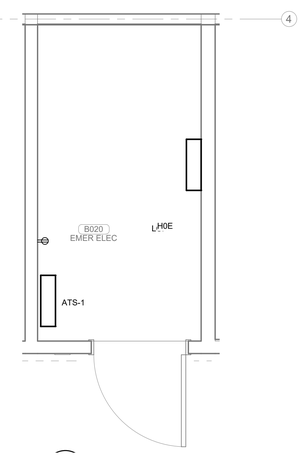
8 ENLARGED ELECTRICAL ROOM 3B
1/2" = 1'-0"



7 ENLARGED ELECTRICAL ROOM 3A
1/2" = 1'-0"



2 MAIN ELECTRICAL ROOM
1/2" = 1'-0"



1 EMERGENCY ELECTRICAL ROOM
1/2" = 1'-0"

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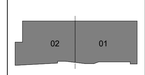
CLIENT:

COLLEGE OF Osteopathic Medicine AT THE CHEROKEE NATION

TAHLEQUAH, OKLAHOMA

KEY PLAN:



PROJECT PHASE:

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#	DATE	DESCRIPTION

DATE:	JOB NUMBER:
07-26-19	17-13

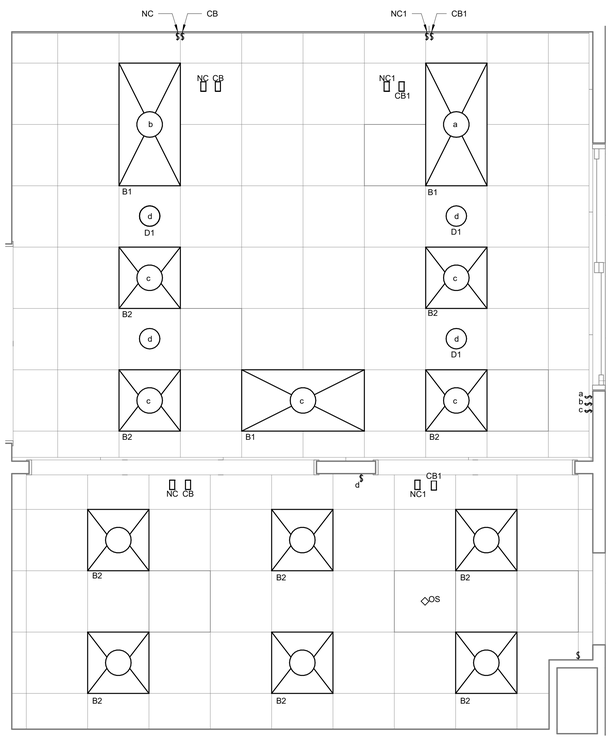
SHEET NUMBER:

E1.17

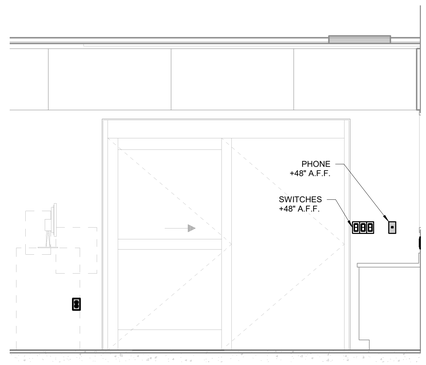
ENLARGED ELECTRICAL ROOMS PLAN

KEYNOTES

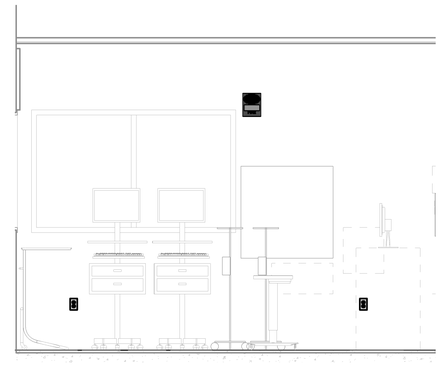
26.16	JUNCTION BOXES SHOWN FOR HEADWALL UNITS ARE DIAGRAMATICAL. REFER TO INSTALLATION GUIDE PROVIDED WITH UNITS AND UTILIZE TEMPLATE FOR EXACT MOUNTING HEIGHTS AND LOCATIONS.



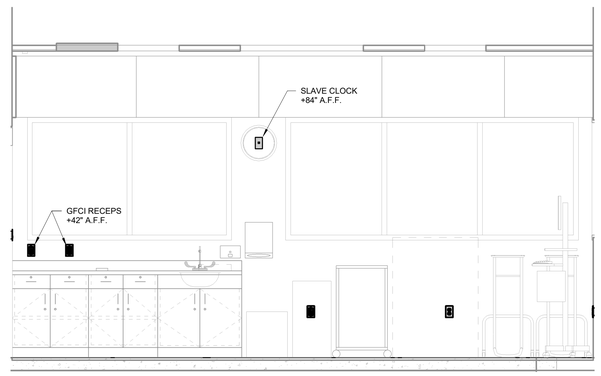
5 ER SIMULATION LIGHTING PLAN
1/2" = 1'-0"



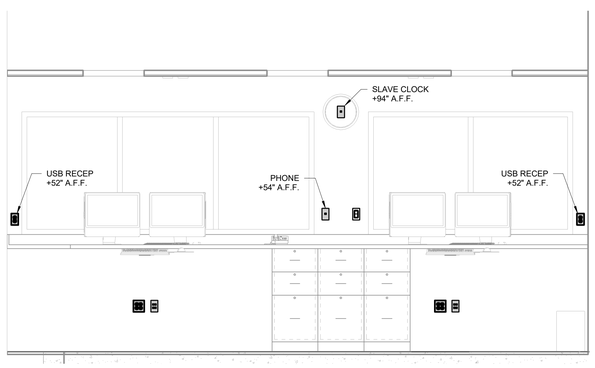
7 ER SIMULATION NORTH ELEV
1/2" = 1'-0"



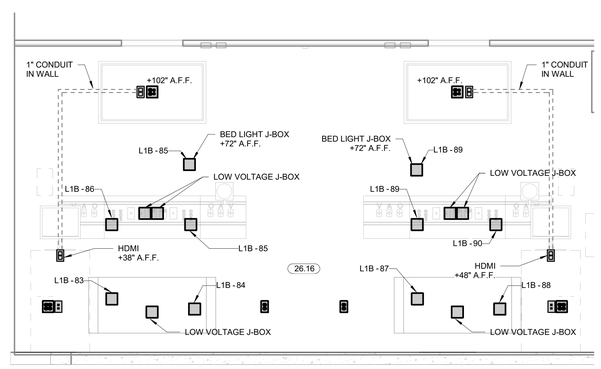
6 ER SIMULATION SOUTH ELEV
1/2" = 1'-0"



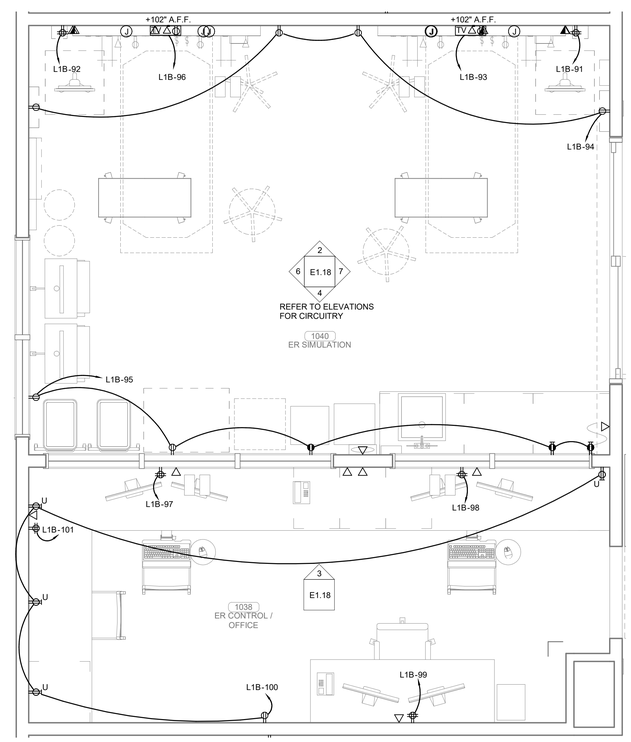
4 ER SIMULATION EAST ELEV
1/2" = 1'-0"



3 ER SIMULATION CONTROL ROOM WEST ELEV
1/2" = 1'-0"



2 ER SIMULATION WEST ELEV
1/2" = 1'-0"



1 ENLARGED ER SIMULATION ELECTRICAL PLAN
1/2" = 1'-0"

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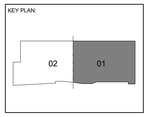

PROJECT PHASE:

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REVISIONS

#	DATE	DESCRIPTION

DATE:	JOB NUMBER:
07-26-19	17-13

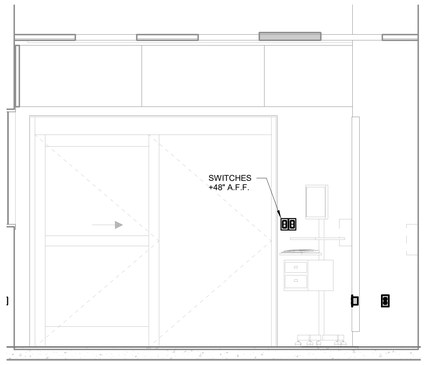
SHEET NUMBER:

E1.18

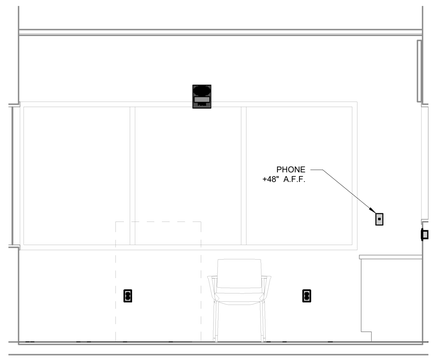
ENLARGED ER SIMULATION ELECTRICAL PLAN

KEYNOTES

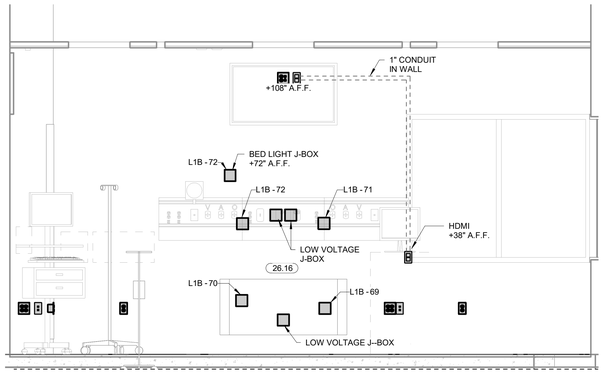
26.16	JUNCTION BOXES SHOWN FOR HEADWALL UNITS ARE DIAGRAMATICAL. REFER TO INSTALLATION GUIDE PROVIDED WITH UNITS AND UTILIZE TEMPLATE FOR EXACT MOUNTING HEIGHTS AND LOCATIONS.



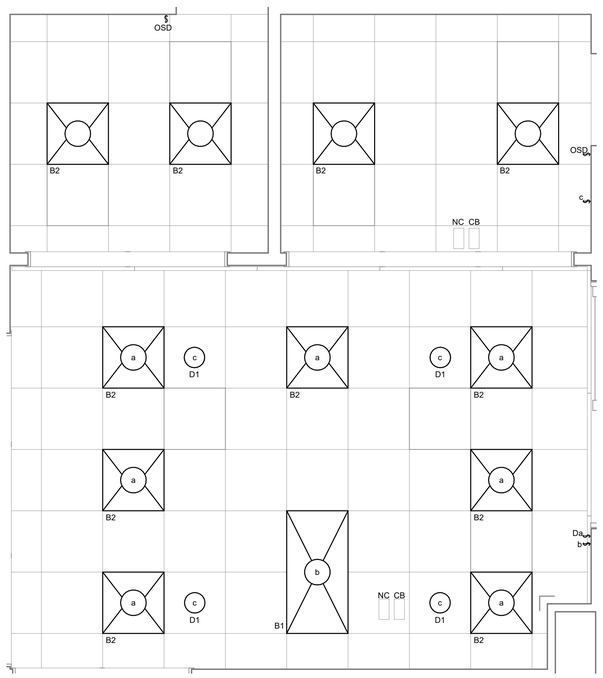
6 MED SURG SIMULATION NORTH ELEV
1/2" = 1'-0"



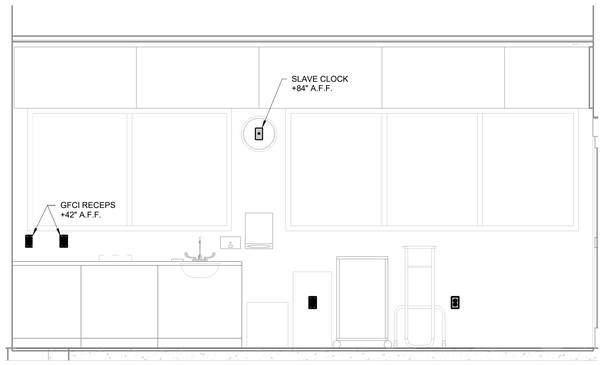
5 MED SURG SIMULATION SOUTH ELEV
1/2" = 1'-0"



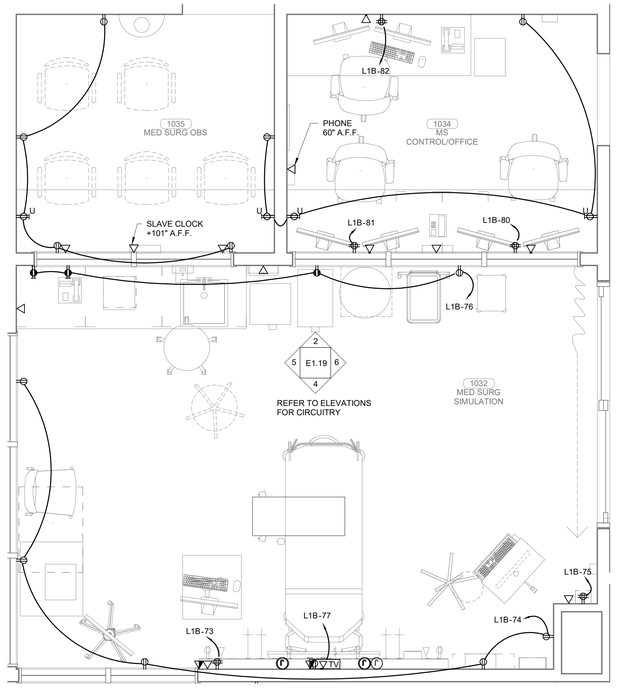
4 MED SURG SIMULATION EAST ELEV
1/2" = 1'-0"



3 MED SURG SIMULATION LIGHTING PLAN
1/2" = 1'-0"



2 MED SURG SIMULATION WEST ELEV
1/2" = 1'-0"



1 ENLARGED MED SURG SIMULATION ELECTRICAL PLAN
1/2" = 1'-0"

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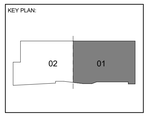
TAHLEQUAH, OKLAHOMA

KEY PLAN:



PROJECT PHASE:

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REVISIONS

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07-26-19	17-13

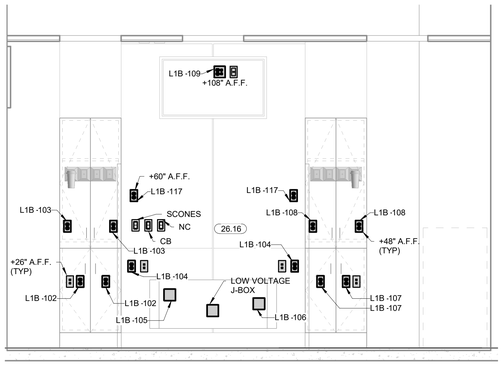
SHEET NUMBER:

E1.19

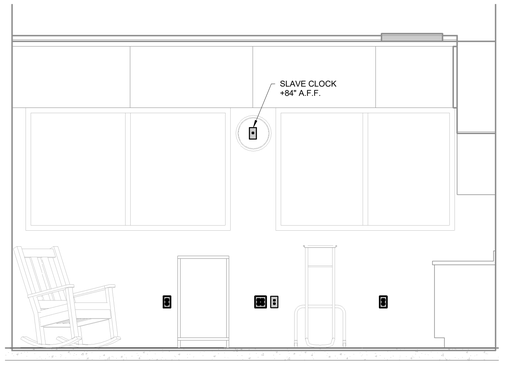
ENLARGED MED SURG SIMULATION ELETRICAL PLAN

KEYNOTES

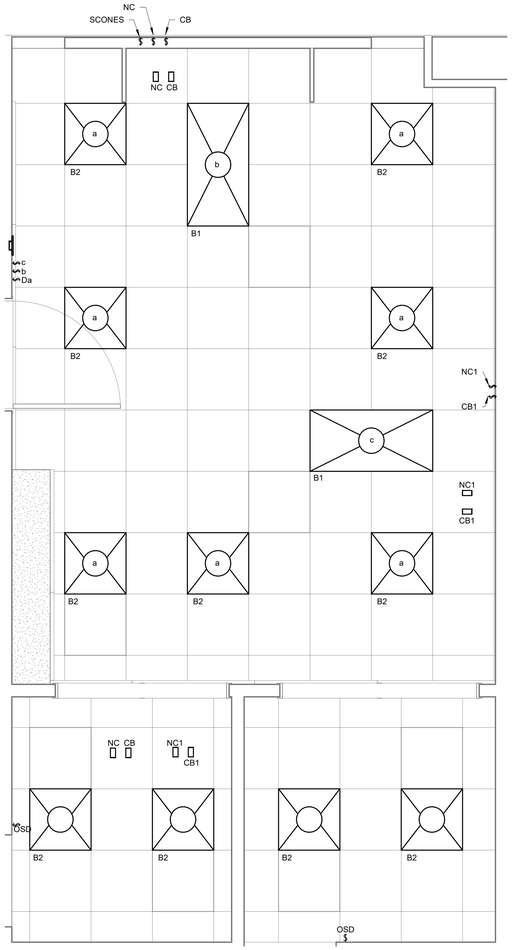
26.16	JUNCTION BOXES SHOWN FOR HEADWALL UNITS ARE DIAGRAMATICAL. REFER TO INSTALLATION GUIDE PROVIDED WITH UNITS AND UTILIZE TEMPLATE FOR EXACT MOUNTING HEIGHTS AND LOCATIONS.
26.17	RECEPTACLE TO BE MOUNTED AT 66" A.F.F AND CONNECTED TO INDIVIDUAL TOGGLE SWITCH FOR UNDERCABINET LIGHTING CONTROL.\



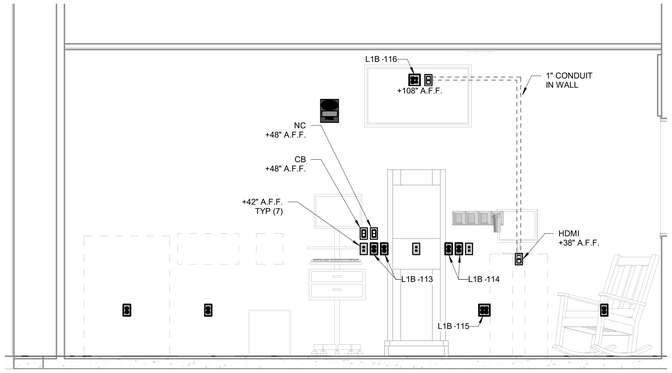
6 MATERNITY SIMULATION WEST ELEV
1/2" = 1'-0"



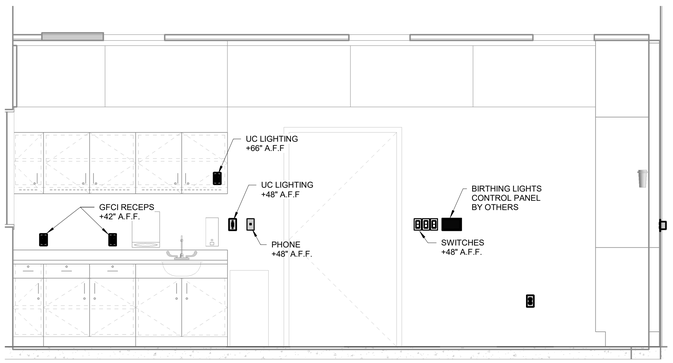
5 MATERNITY SIMULATION EAST ELEV
1/2" = 1'-0"



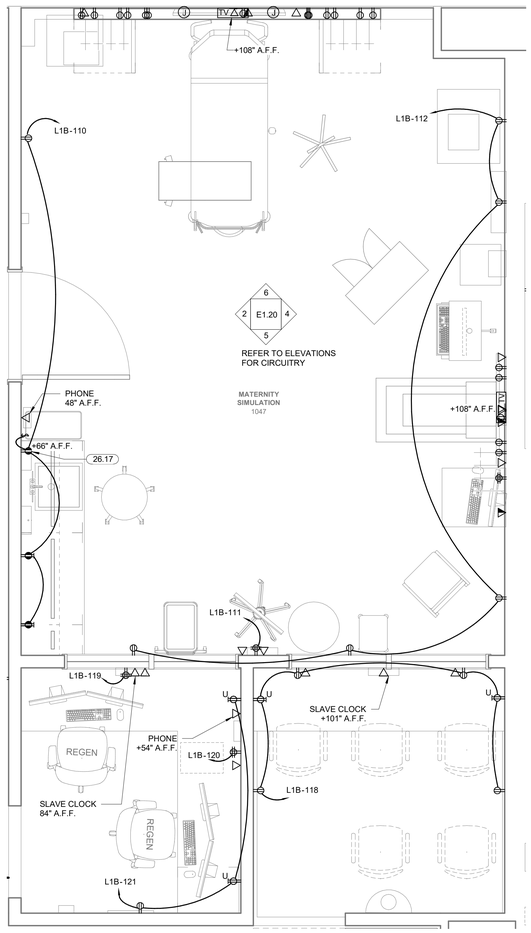
3 MATERNITY SIMULATION LIGHTING PLAN
1/2" = 1'-0"



4 MATERNITY SIMULATION NORTH ELEV
1/2" = 1'-0"



2 MATERNITY SIMULATION SOUTH ELEV
1/2" = 1'-0"



1 ENLARGED MATERNITY SIMULATION ELECTRICAL PLAN
1/2" = 1'-0"

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CONSULTANT LOGO:

HP ENGINEERING

PROJECT NO. 18163R

95 % COMPLETE

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ROGERS, AR 72758
(479) 899-6370
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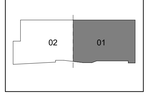
CLIENT:

COLLEGE OF Osteopathic Medicine
AT THE CHEROKEE NATION
TAHLEQUAH, OKLAHOMA

KEY PLAN:



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#	DATE	DESCRIPTION

DATE:	JOB NUMBER:
07-26-19	17-13

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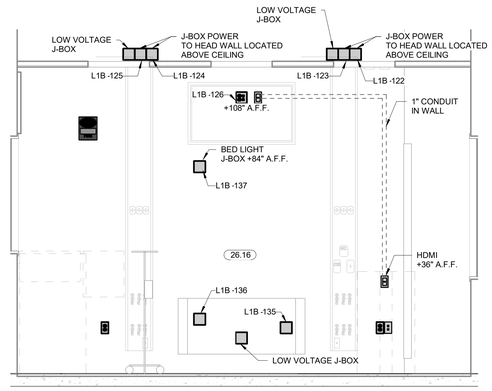
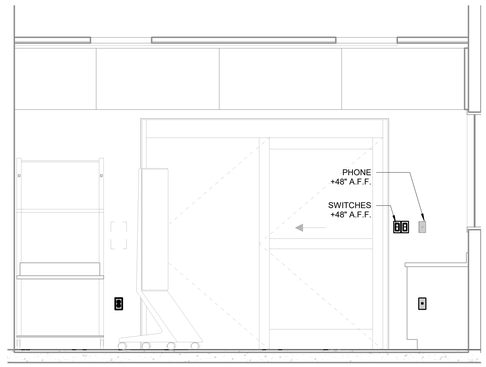
ENLARGED MATERNITY SIMULATION ELECTRICAL PLAN

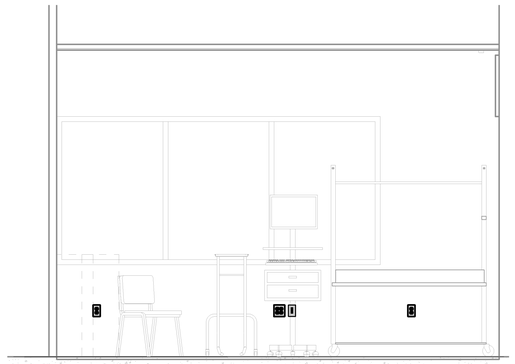
KEYNOTES	
26.16	JUNCTION BOXES SHOWN FOR HEADWALL UNITS ARE DIAGRAMATICAL. REFER TO INSTALLATION GUIDE PROVIDED WITH UNITS AND UTILIZE TEMPLATE FOR EXACT MOUNTING HEIGHTS AND LOCATIONS.



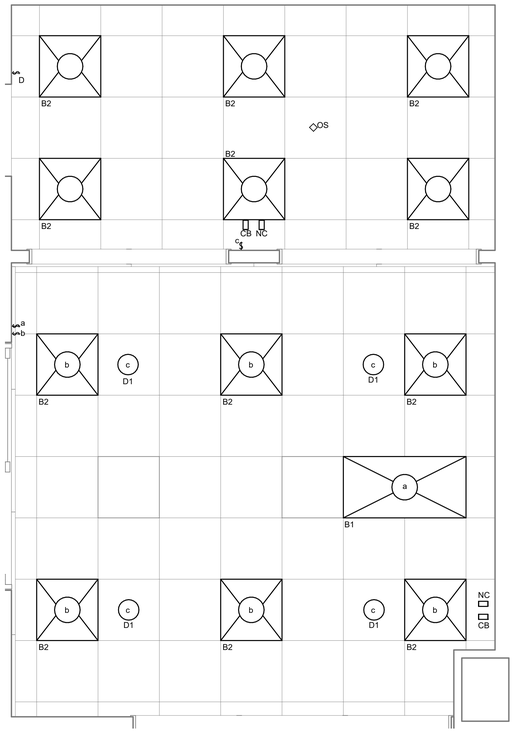
6 PEDIATRIC SIMULATION NORTH ELEV
1/2" = 1'-0"



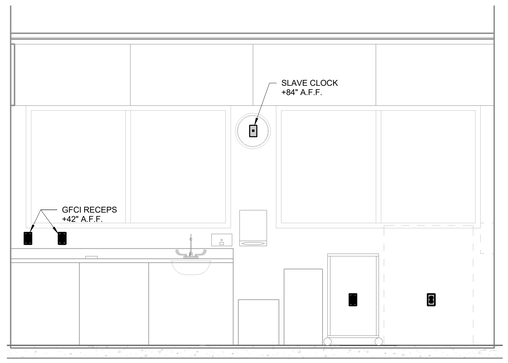
5 PEDIATRIC SIMULATION SOUTH ELEV
1/2" = 1'-0"



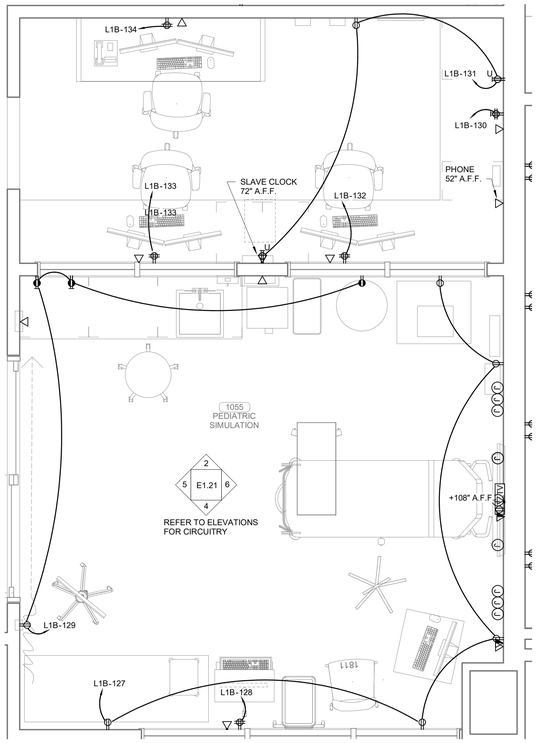
4 PEDIATRIC SIMULATION EAST ELEV
1/2" = 1'-0"



3 PEDIATRIC SIMULATION LIGHTING PLAN
1/2" = 1'-0"



2 PEDIATRIC SIMULATION WEST ELEV
1/2" = 1'-0"



1 ENLARGED PEDIATRIC SIMULATION ELECTRICAL PLAN
1/2" = 1'-0"

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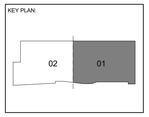
KEY PLAN:



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DATE:	JOB NUMBER:
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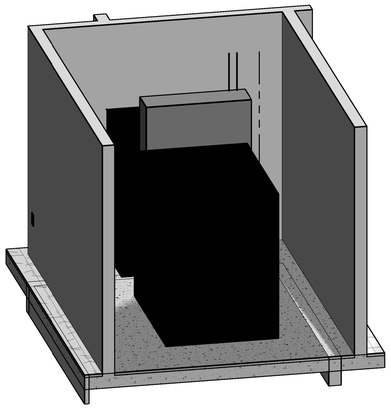
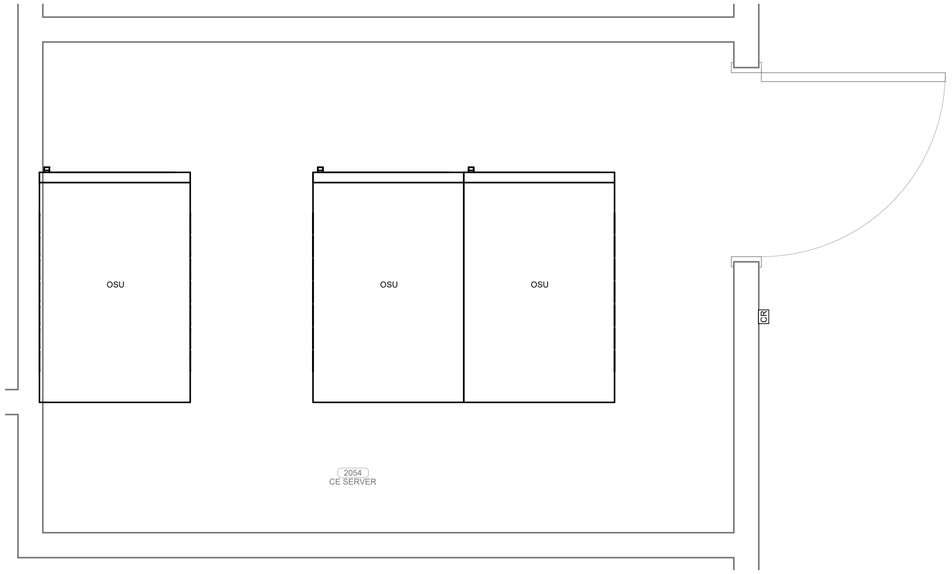
SHEET NUMBER:

E1.21

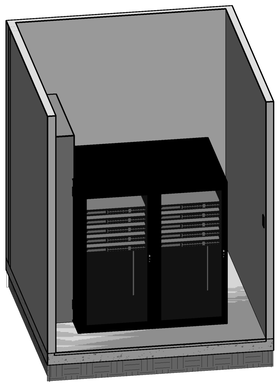
ENLARGED PEDIATRIC SIMULATION ELECTRICAL PLAN



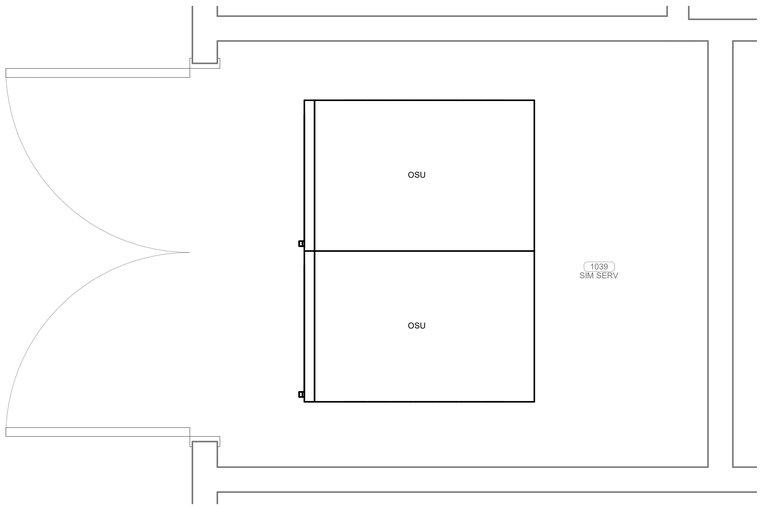
4 CLINICAL SKILLS MDF 3D



3 ENLARGED CLINICAL SKILLS MDF ROOM
1" = 1'-0"



2 SIMULATION MDF 3D



1 ENLARGED SIMULATION MDF ROOM
1" = 1'-0"

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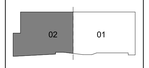
TAHLEQUAH, OKLAHOMA

KEY PLAN:



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#	DATE	DESCRIPTION

DATE:	JOB NUMBER:
07-26-19	17-13

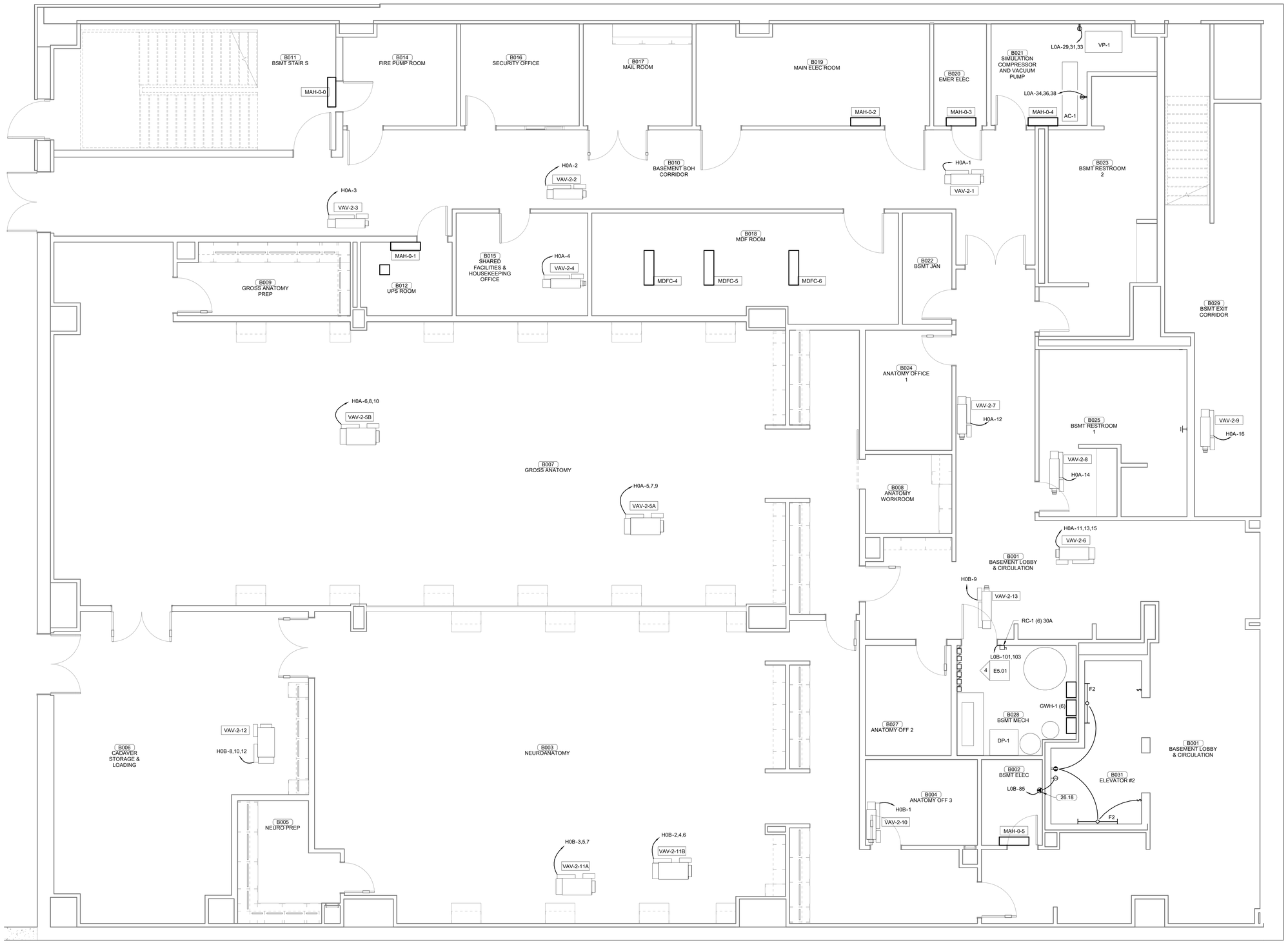
SHEET NUMBER:

E1.22

ENLARGED SIMULATION & CLINICAL SKILLS ROOMS

KEYNOTES

26.18	E.C. TO PROVIDE DIRECT CONNECTION TO SUMP CONTROLLER. COORDINATE LOCATION WITH PLUMBING CONTRACTOR. PROVIDE ALL NECESSARY CONNECTIONS AND CONDUIT FOR POWER AND CONTROLS TO SUMP PUMP.



PLAN NORTH

TRUE NORTH

1 MECHANICAL POWER PLAN BASEMENT SECTOR 02

1/4" = 1'-0"

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CLIENT:

COLLEGE OF Osteopathic Medicine AT THE CHEROKEE NATION

TAHLEQUAH, OKLAHOMA

KEY PLAN:

02 01

PROJECT PHASE:

95% CONSTRUCTION DOCUMENTS

REVISIONS

#	DATE	DESCRIPTION

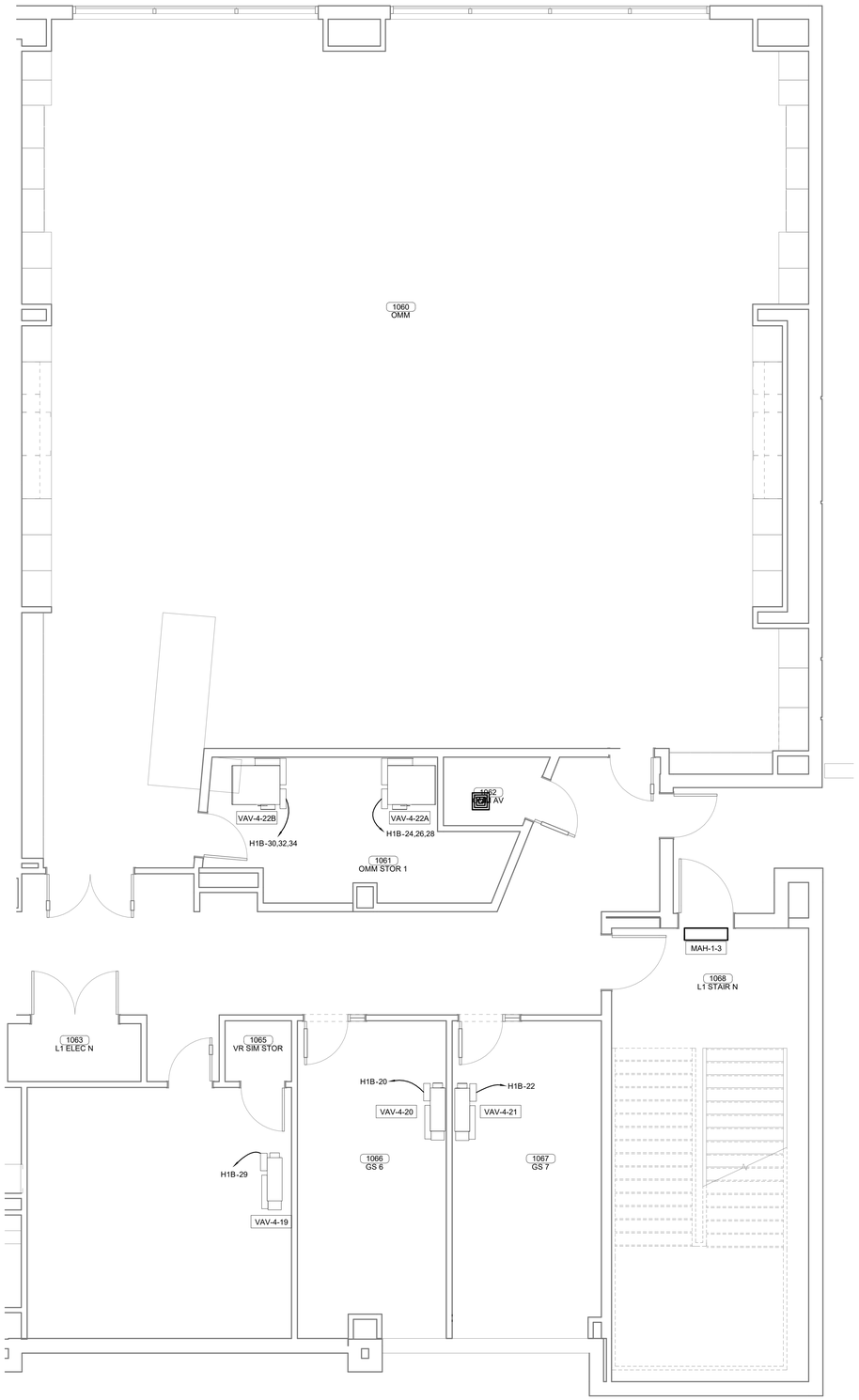
DATE: 07-26-19

JOB NUMBER: 17-13

SHEET NUMBER:

E1.23

MECHANICAL POWER PLAN BASEMENT SECTOR 02



PLAN NORTH

TRUE NORTH

1 ENLARGED MECHANICAL POWER PLAN LEVEL 01 SECTOR 01

1/4" = 1'-0"

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TAHLEQUAH, OKLAHOMA

KEY PLAN:

02 01

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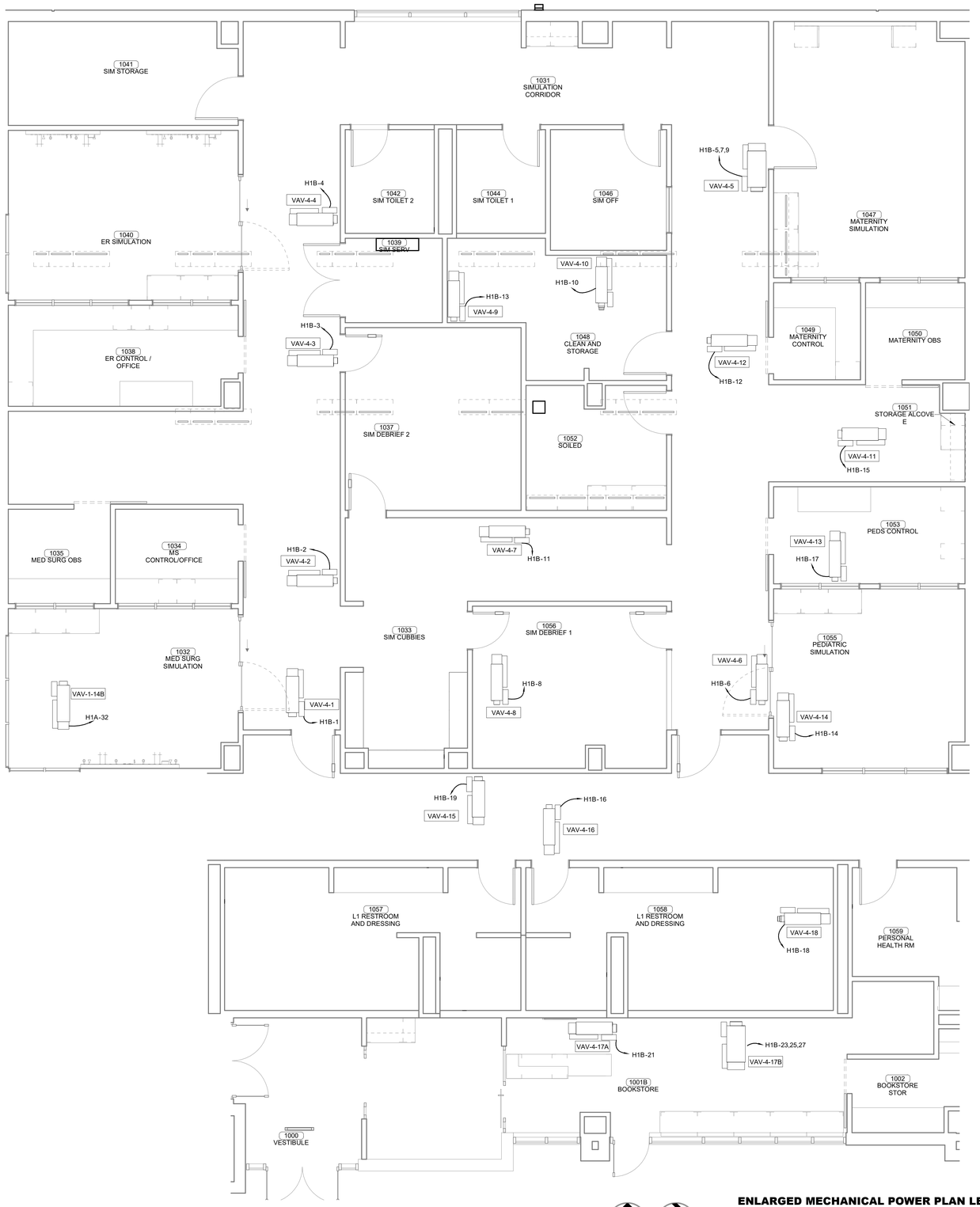
DATE:	JOB NUMBER:
07-26-19	17-13

SHEET NUMBER:

E1.24

ENLARGED MECHANICAL POWER PLAN LEVEL 01 SECTOR 01



1 ENLARGED MECHANICAL POWER PLAN LEVEL 01 SECTOR 01

1/4" = 1'-0"

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KEY PLAN:

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DATE:	JOB NUMBER:
07-26-19	17-13

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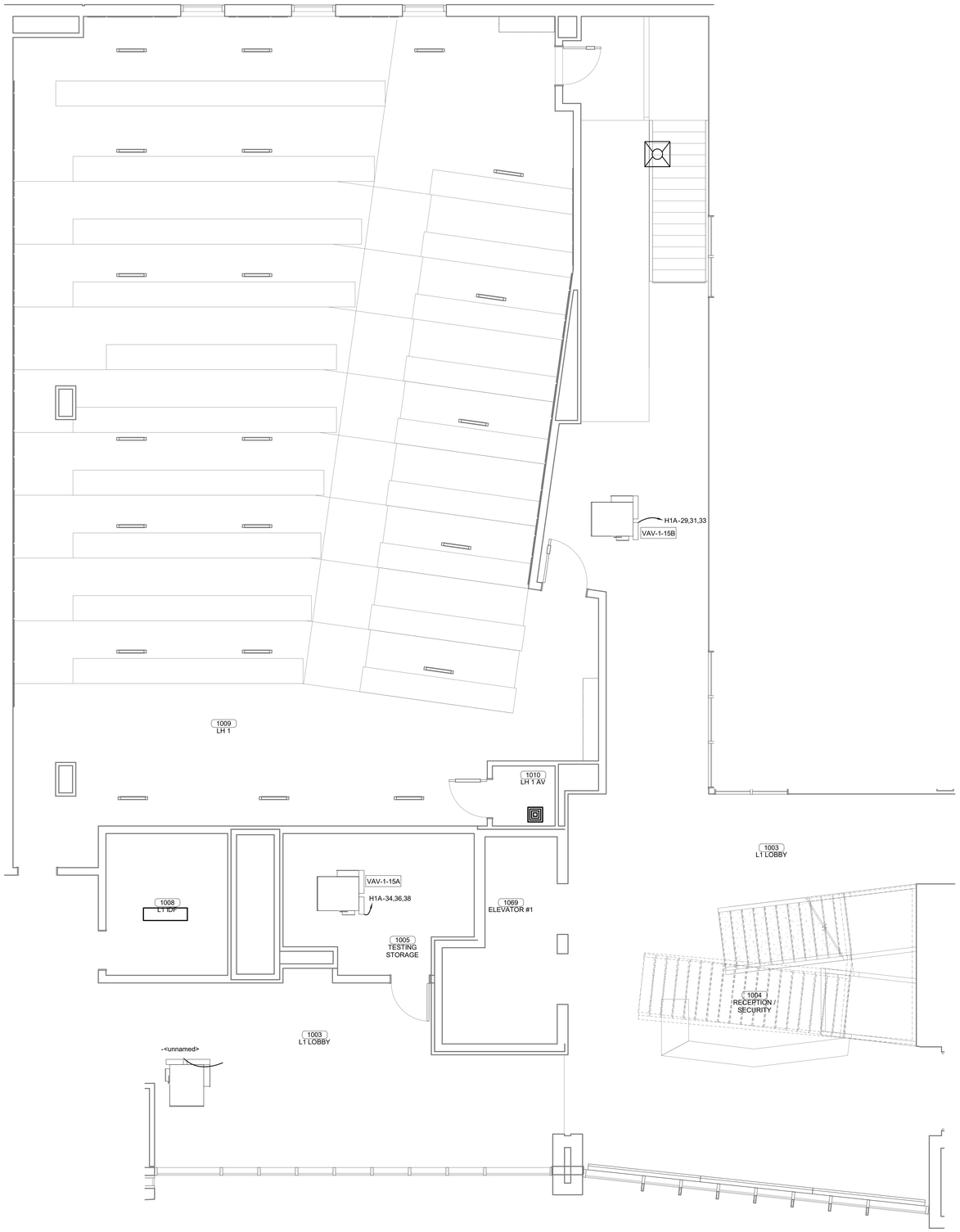
E1.25

ENLARGED MECHANICAL
POWER PLAN LEVEL 01
SECTOR 01



1 ENLARGED MECHANICAL POWER PLAN LEVEL 01
SECTOR 02
1/4" = 1'-0"

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#	DATE	DESCRIPTION

DATE:	JOB NUMBER:
07-26-19	17-13

SHEET NUMBER:

E1.26

ENLARGED MECHANICAL
POWER PLAN LEVEL 01
SECTOR 02

PLAN NORTH

TRUE NORTH

1 ENLARGED MECHANICAL POWER PLAN LEVEL 01 SECTOR 02

1/4" = 1'-0"

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KEY PLAN:

02 01

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REVISIONS

#	DATE	DESCRIPTION

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07-26-19	17-13

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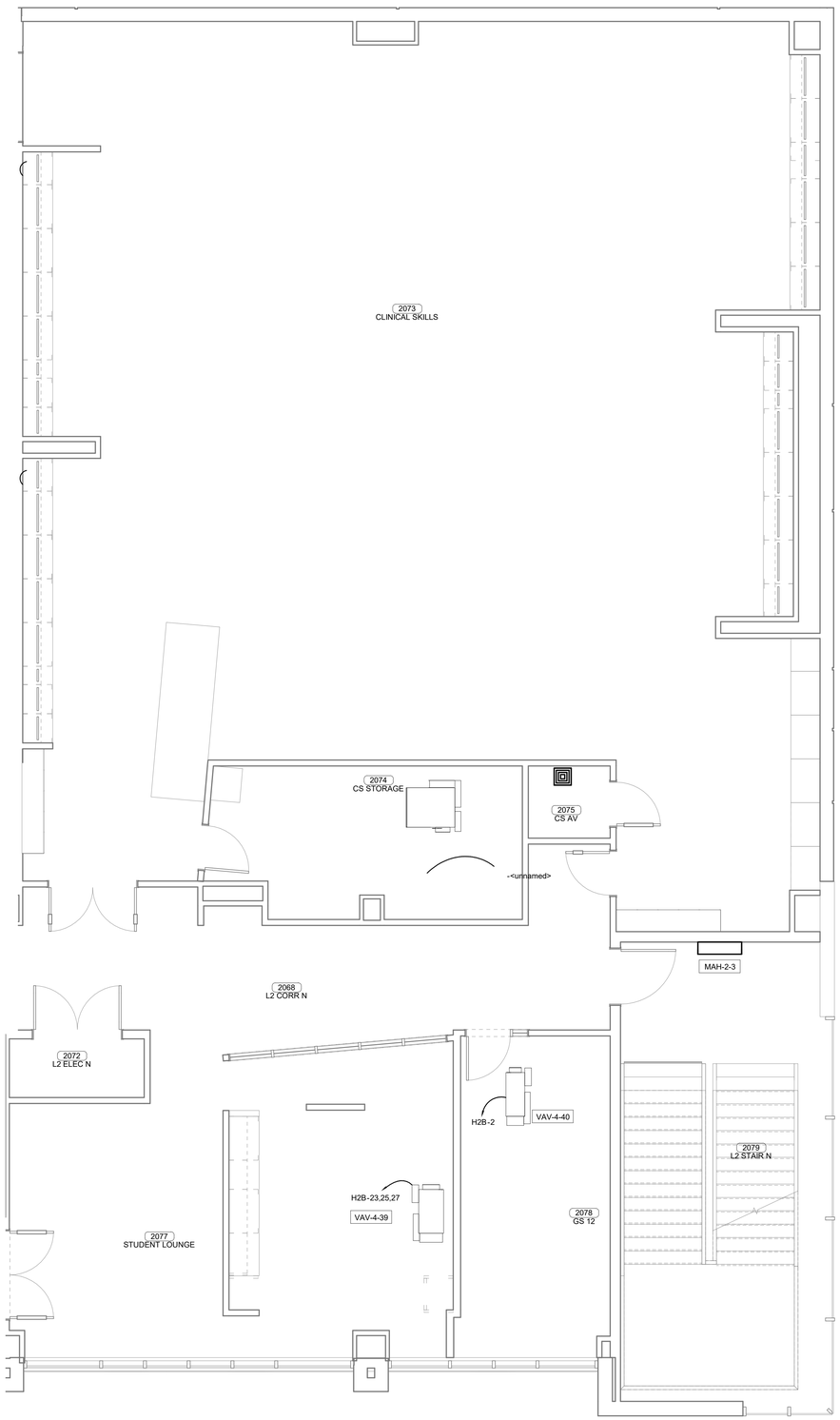
E1.27

ENLARGED MECHANICAL POWER PLAN LEVEL 01 SECTOR 02



PLAN NORTH

TRUE NORTH

1 ENLARGED MECHANICAL POWER PLAN LEVEL 02
SECTOR 01
1/4" = 1'-0"

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KEY PLAN:

02 01

PROJECT PHASE:

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REVISIONS:

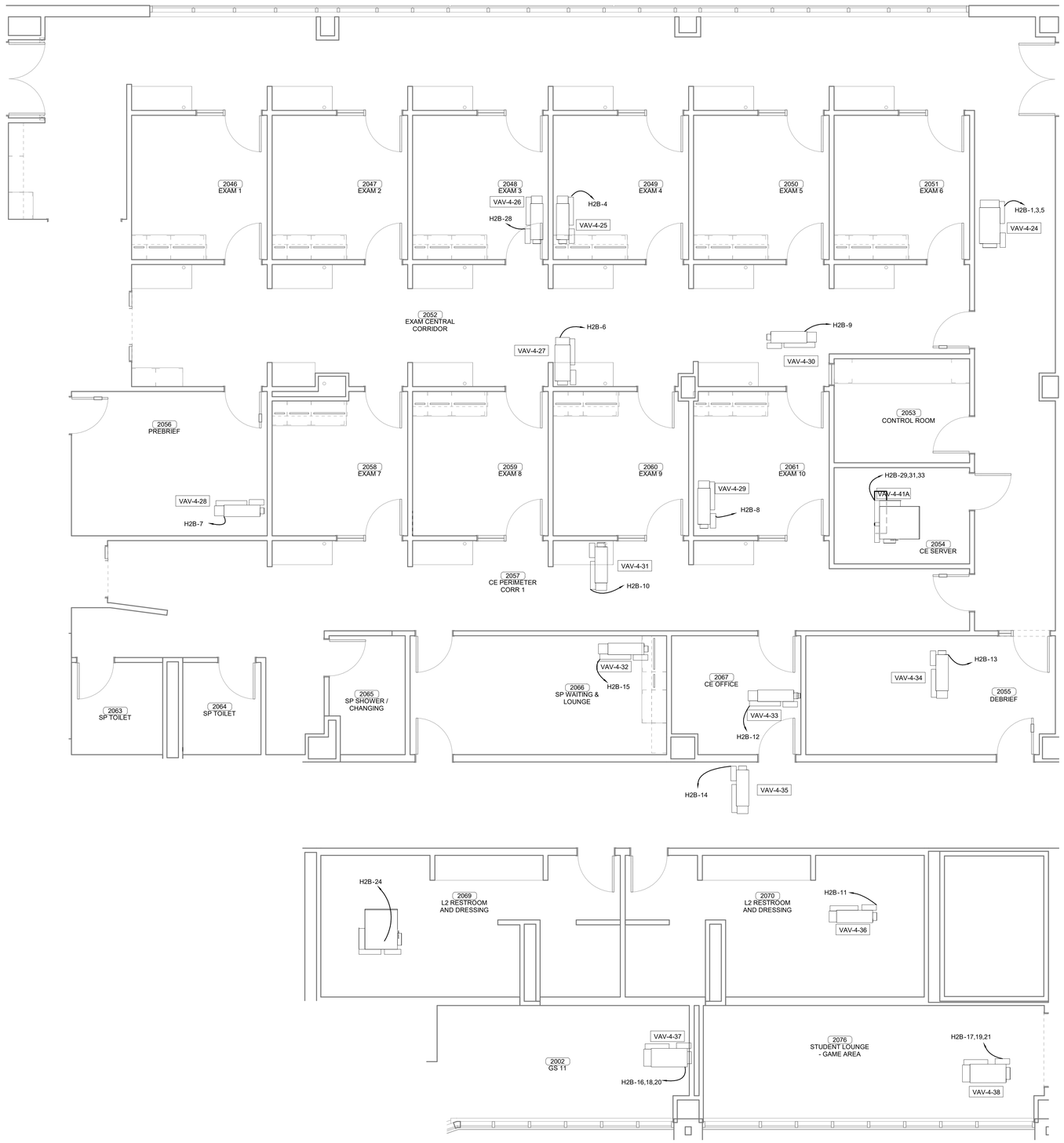
#	DATE	DESCRIPTION

DATE:	JOB NUMBER:
07-26-19	17-13

SHEET NUMBER:

E1.28

ENLARGED MECHANICAL POWER PLAN LEVEL 02 SECTOR 01



1 ENLARGED MECHANICAL POWER PLAN LEVEL 02 SECTOR 01
1/4" = 1'-0"

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KEY PLAN:

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DATE:	JOB NUMBER:
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SHEET NUMBER:

E1.29

ENLARGED MECHANICAL POWER PLAN LEVEL 02 SECTOR 01

PLAN NORTH

TRUE NORTH

1 ENLARGED MECHANICAL POWER PLAN LEVEL 02
SECTOR 02
1/4" = 1'-0"

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KEY PLAN:

02 01

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REVISIONS:

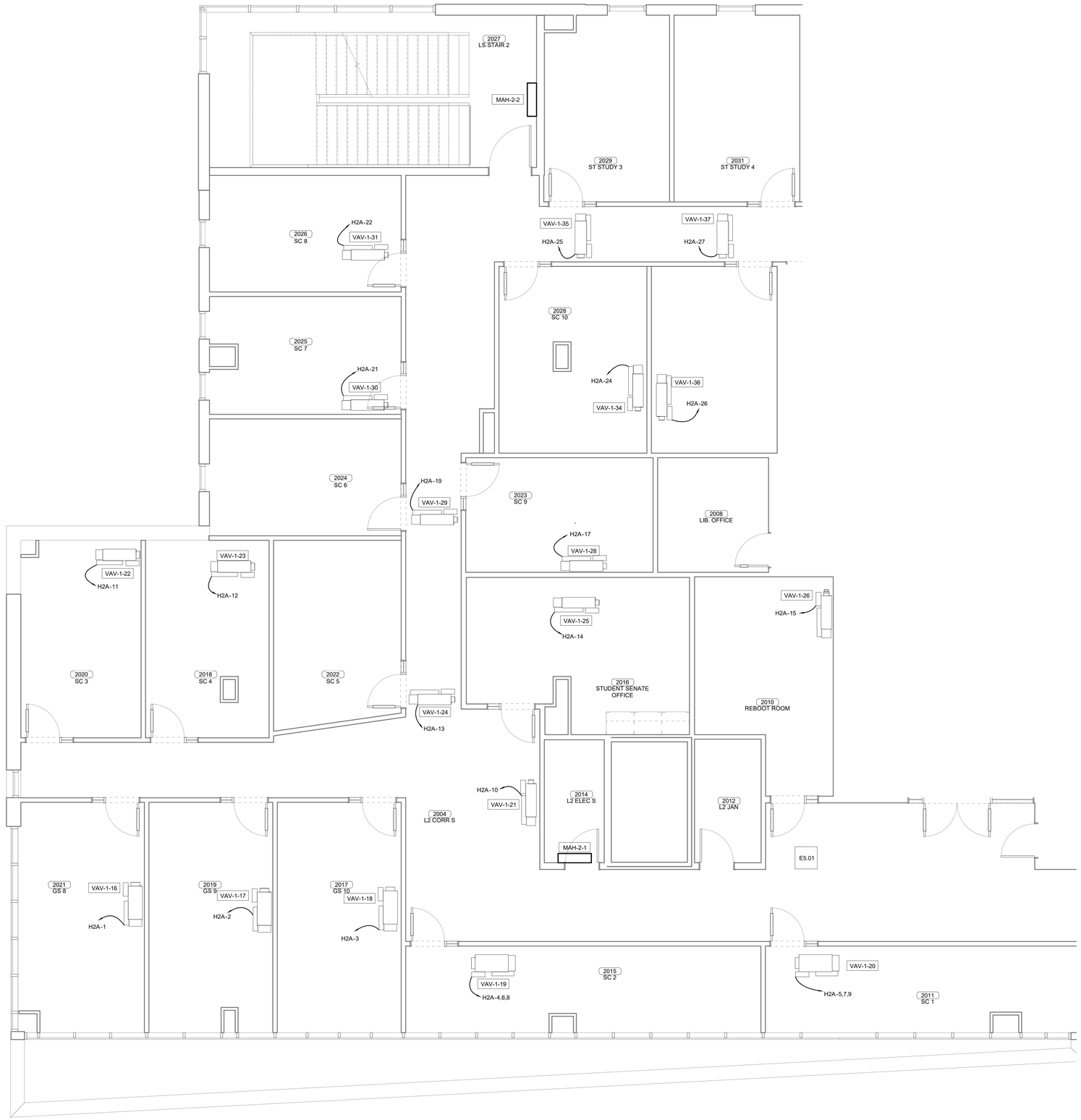
#	DATE	DESCRIPTION

DATE:	JOB NUMBER:
07-26-19	17-13

SHEET NUMBER:

E1.30

ENLARGED MECHANICAL POWER PLAN LEVEL 02 SECTOR 02



PLAN NORTH

TRUE NORTH

1 ENLARGED MECHANICAL POWER PLAN LEVEL 02 SECTOR 02

1/4" = 1'-0"

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TAHLEQUAH, OKLAHOMA

KEY PLAN:

02 01

PROJECT PHASE:

95% CONSTRUCTION DOCUMENTS

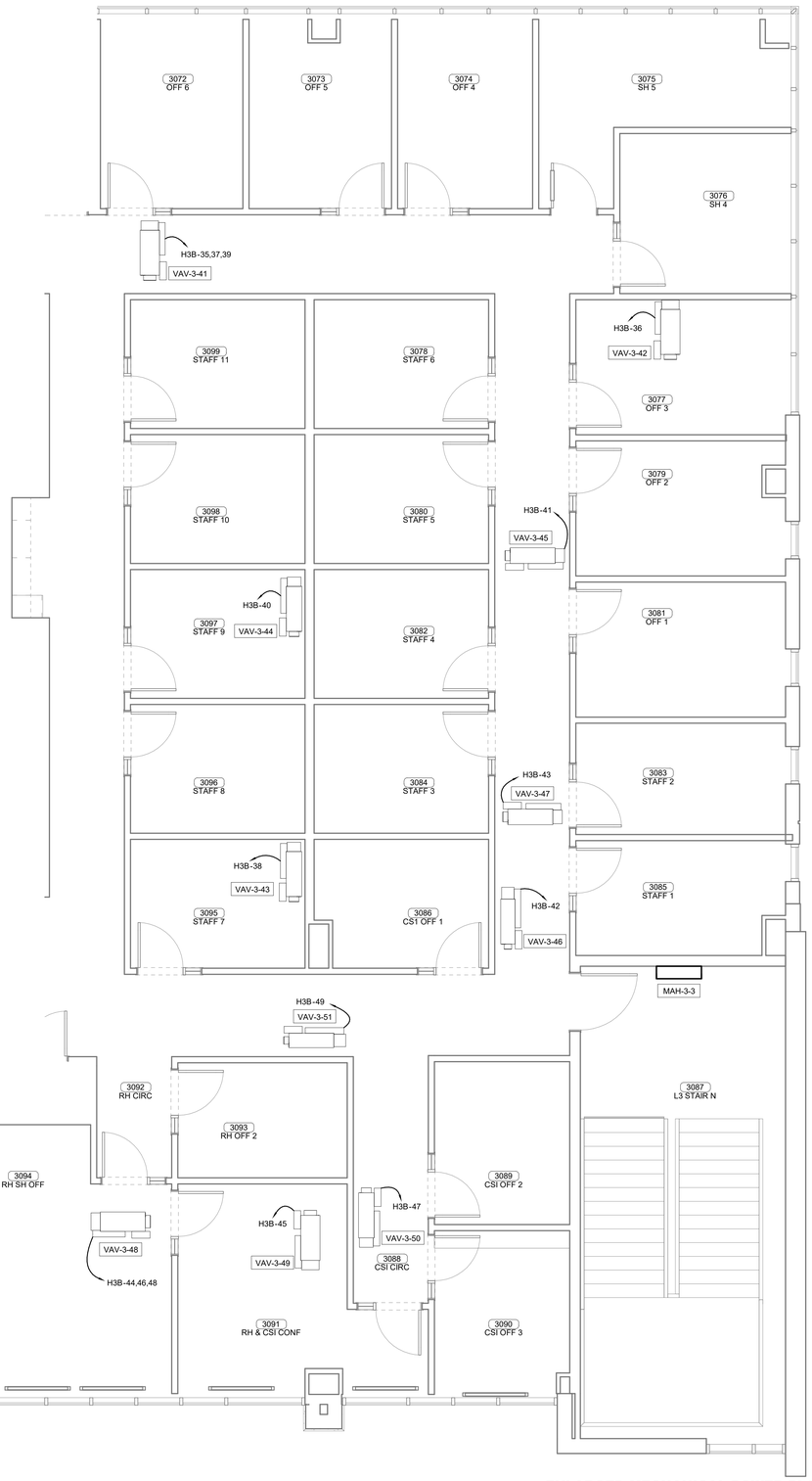
REVISIONS		
#	DATE	DESCRIPTION

DATE:	JOB NUMBER:
07-26-19	17-13

SHEET NUMBER:

E1.31

ENLARGED MECHANICAL POWER PLAN LEVEL 02 SECTOR 02



PLAN NORTH

TRUE NORTH

1 ENLARGED MECHANICAL POWER PLAN LEVEL 03
SECTOR 01
1/4" = 1'-0"

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45 South 4th Street
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479-783-2480
www.childersarchitect.com

PROFESSIONAL SEAL:

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CONSULTANT LOGO:

HP ENGINEERING

PROJECT NO. 18163R

95 % COMPLETE

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5214 W. VILLAGE PARKWAY
SUITE 120
ROGERS, AR 72758
(479) 899-6370
www.hpengineeringinc.com

CLIENT:

COLLEGE OF Osteopathic Medicine AT THE CHEROKEE NATION

TAHLEQUAH, OKLAHOMA

KEY PLAN:

02 01

PROJECT PHASE:

95% CONSTRUCTION DOCUMENTS

REVISIONS

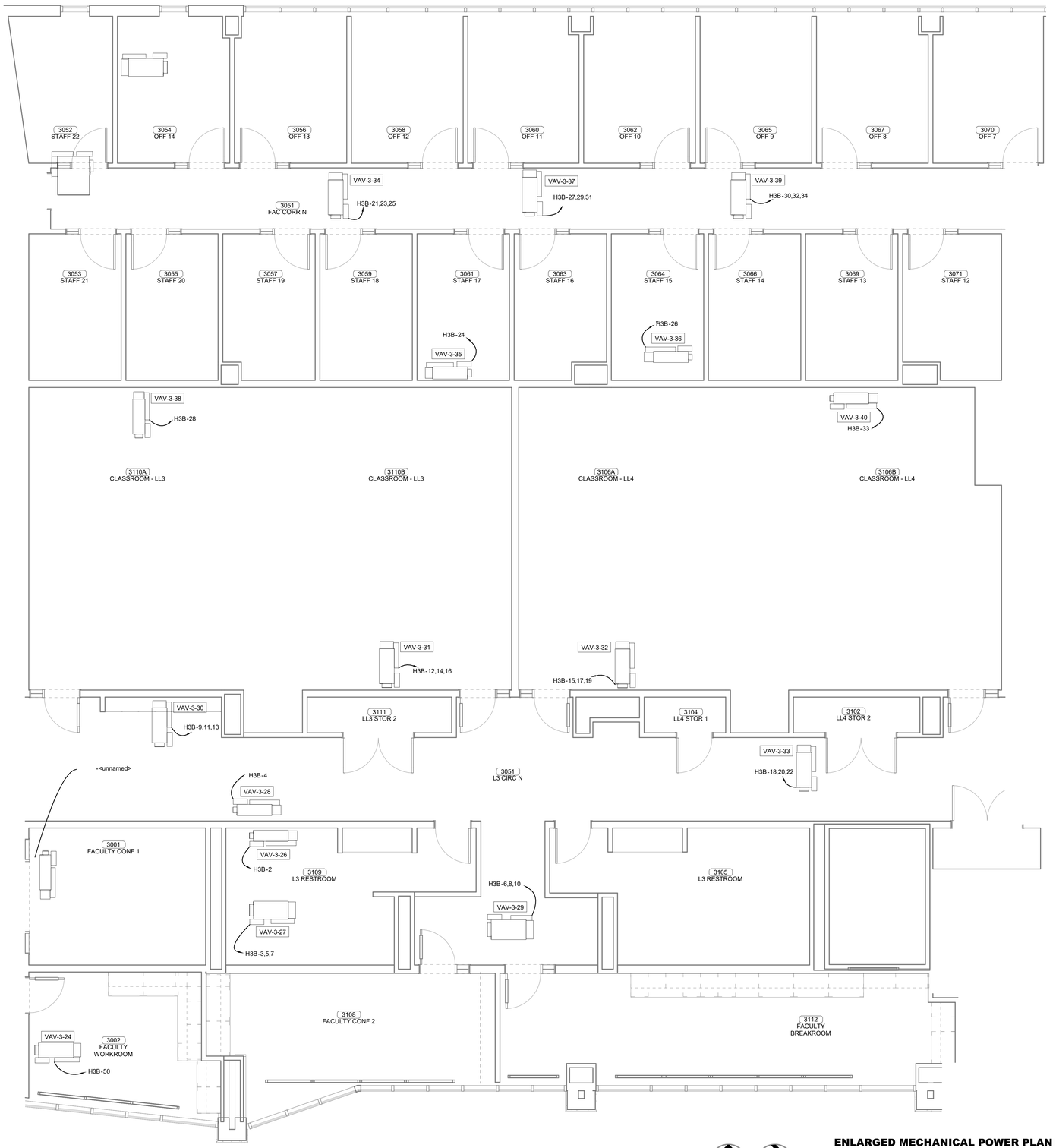
#	DATE	DESCRIPTION

DATE:	JOB NUMBER:
07-26-19	17-13

SHEET NUMBER:

E1.32

ENLARGED MECHANICAL POWER PLAN LEVEL 03 SECTOR 01



PLAN NORTH

TRUE NORTH

1 ENLARGED MECHANICAL POWER PLAN LEVEL 03 SECTOR 01

1/4" = 1'-0"

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TAHLEQUAH, OKLAHOMA

KEY PLAN:

02 01

PROJECT PHASE:

95% CONSTRUCTION DOCUMENTS

REVISIONS:

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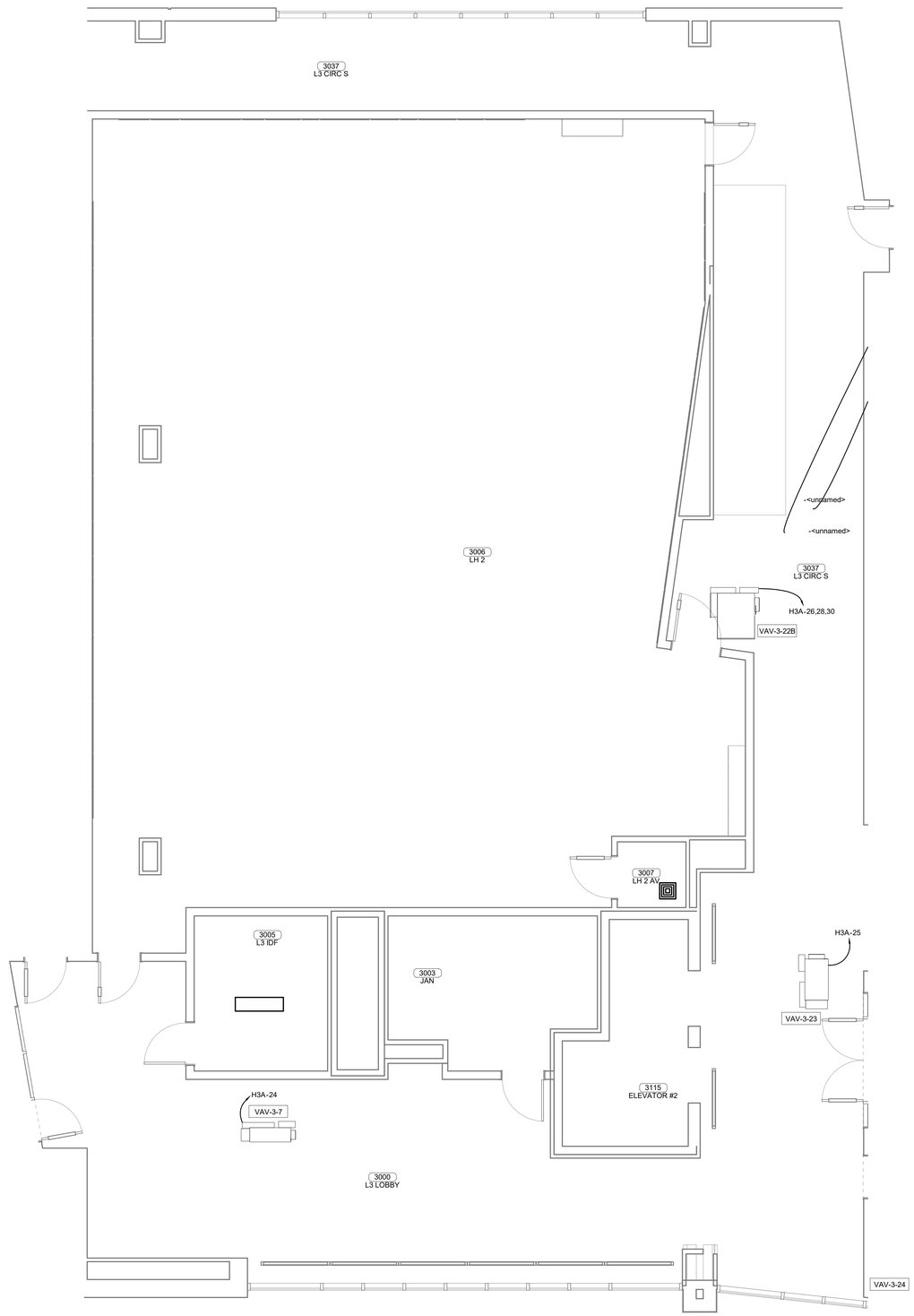
DATE:	JOB NUMBER:
07-26-19	17-13

SHEET NUMBER:

E1.33

ENLARGED MECHANICAL POWER PLAN LEVEL 03 SECTOR 01



PLAN NORTH

TRUE NORTH

1 ENLARGED MECHANICAL POWER PLAN LEVEL 03 SECTOR 02

1/4" = 1'-0"

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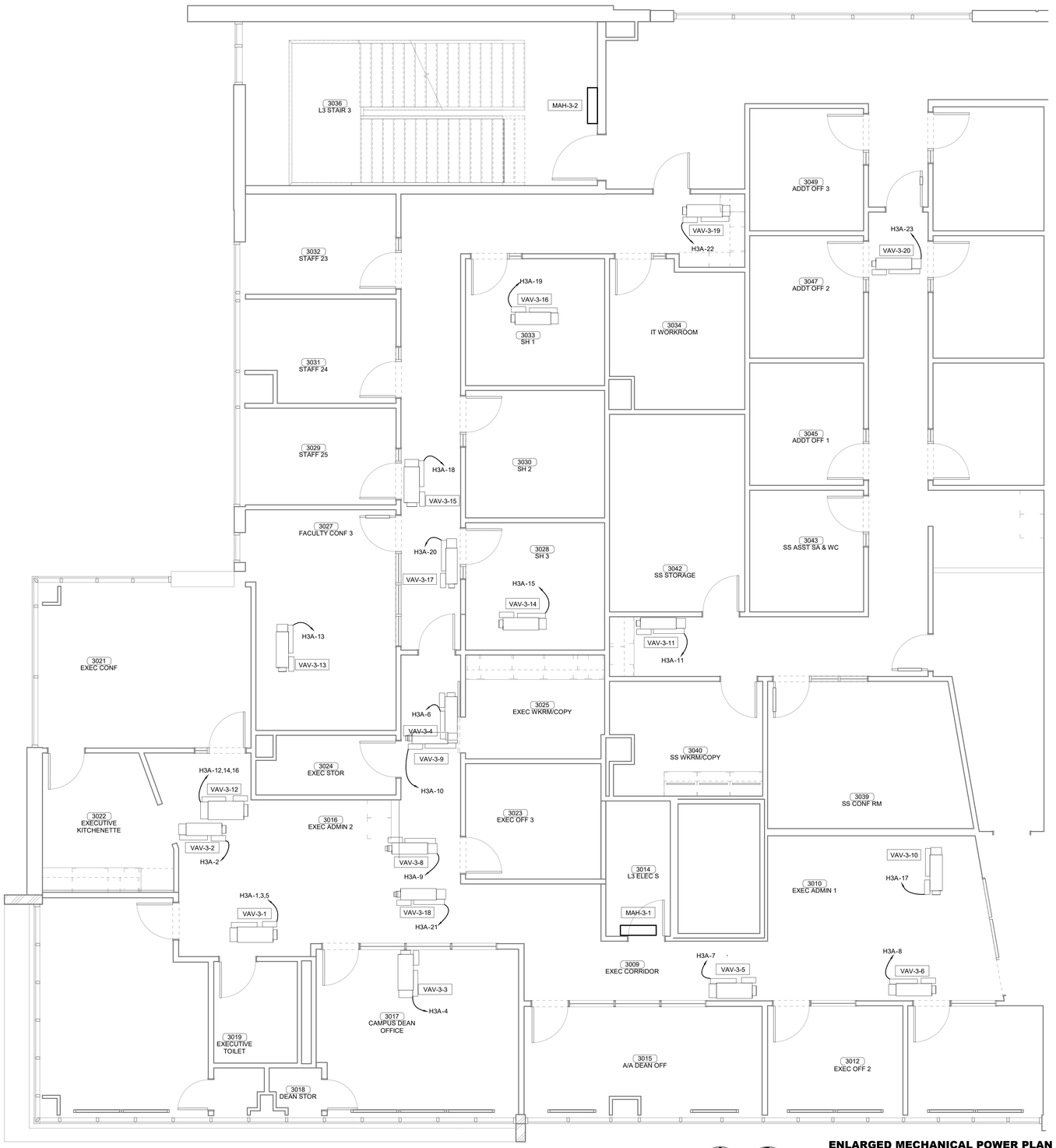
#	DATE	DESCRIPTION

DATE:	JOB NUMBER:
07-26-19	17-13

SHEET NUMBER:

E1.34

ENLARGED MECHANICAL POWER PLAN LEVEL 03 SECTOR 02



PLAN NORTH

TRUE NORTH

1 ENLARGED MECHANICAL POWER PLAN LEVEL 03 SECTOR 02

1/4" = 1'-0"

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KEY PLAN:

02 01

PROJECT PHASE:

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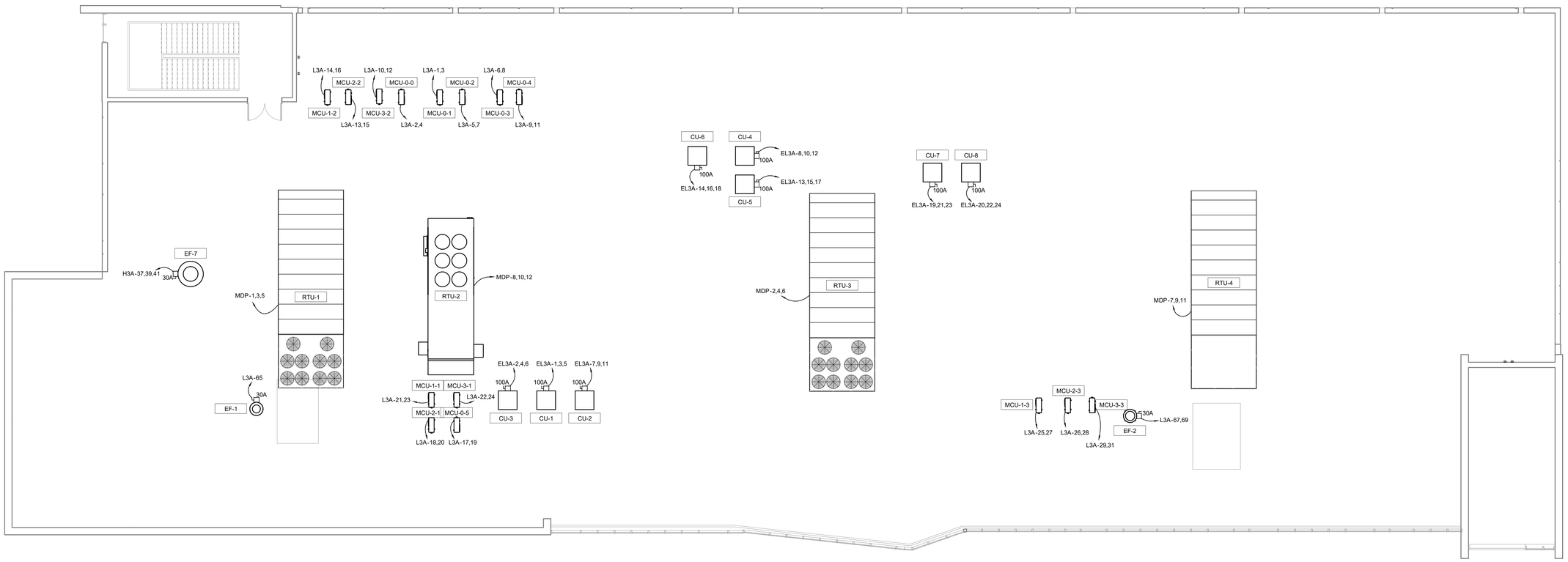
REVISIONS		
#	DATE	DESCRIPTION

DATE:	JOB NUMBER:
07-26-19	17-13

SHEET NUMBER:

E1.35

ENLARGED MECHANICAL POWER PLAN LEVEL 03 SECTOR 02



1 OVERALL MECHANICAL POWER PLAN ROOF

1/8" = 1'-0"

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TAHLEQUAH, OKLAHOMA

KEY PLAN:

02 | 01

PROJECT PHASE:

95% CONSTRUCTION DOCUMENTS

REVISIONS

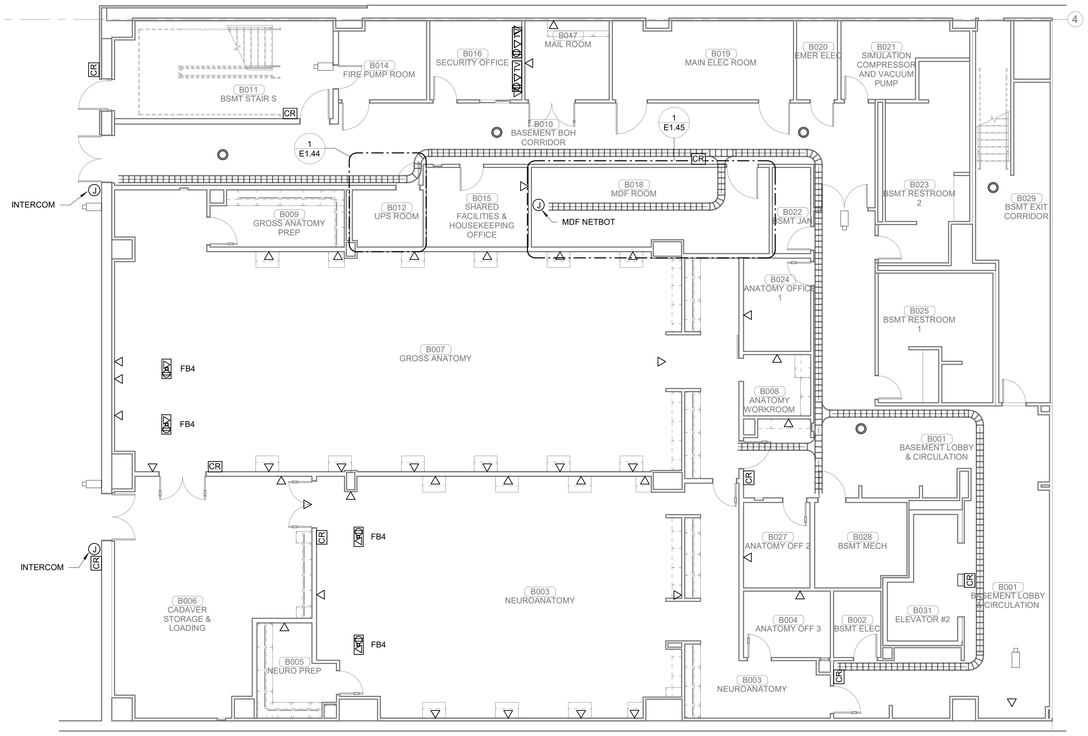
#	DATE	DESCRIPTION

DATE:	JOB NUMBER:
07-26-19	17-13

SHEET NUMBER:

E1.36

OVERALL MECHANICAL POWER PLAN ROOF



PLAN NORTH

TRUE NORTH

1 SYSTEMS PLAN BASEMENT LEVEL SECTOR 02

1/8" = 1'-0"

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PROJECT NO. 18163R

95 % COMPLETE

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TAHLEQUAH, OKLAHOMA

KEY PLAN:

02 01

PROJECT PHASE:

95% CONSTRUCTION DOCUMENTS

REVISIONS

#	DATE	DESCRIPTION

DATE:	JOB NUMBER:
07-26-19	17-13

SHEET NUMBER:

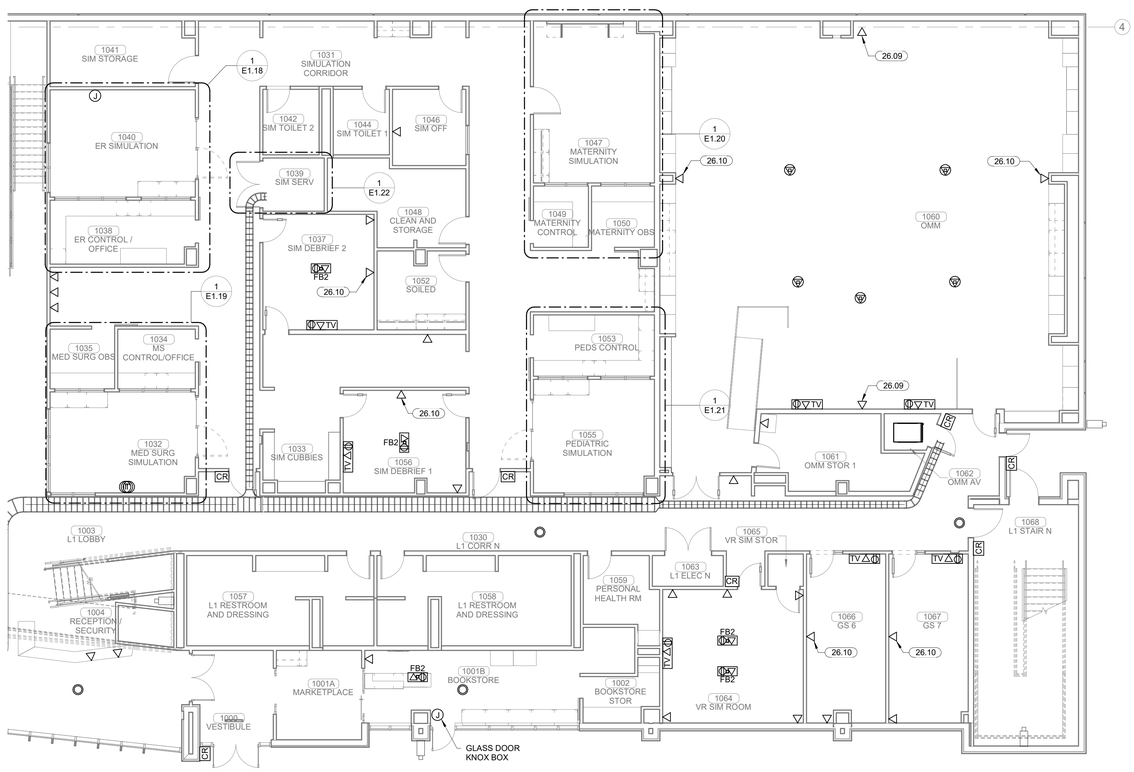
E1.37

SYSTEMS PLAN BASEMENT LEVEL SECTOR 02

KEYNOTES

26.09 DATA FOR SLAVE CLOCK TO BE MOUNTED AT +114" A.F.F.

26.10 DATA FOR SLAVE CLOCK TO BE MOUNTED AT +96" A.F.F.



PLAN NORTH

TRUE NORTH

1 SYSTEMS PLAN LEVEL 01 SECTOR 01

1/8" = 1'-0"

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KEY PLAN:

02 01

PROJECT PHASE:

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REVISIONS		
#	DATE	DESCRIPTION

DATE:	JOB NUMBER:
07-26-19	17-13

SHEET NUMBER:

E1.38

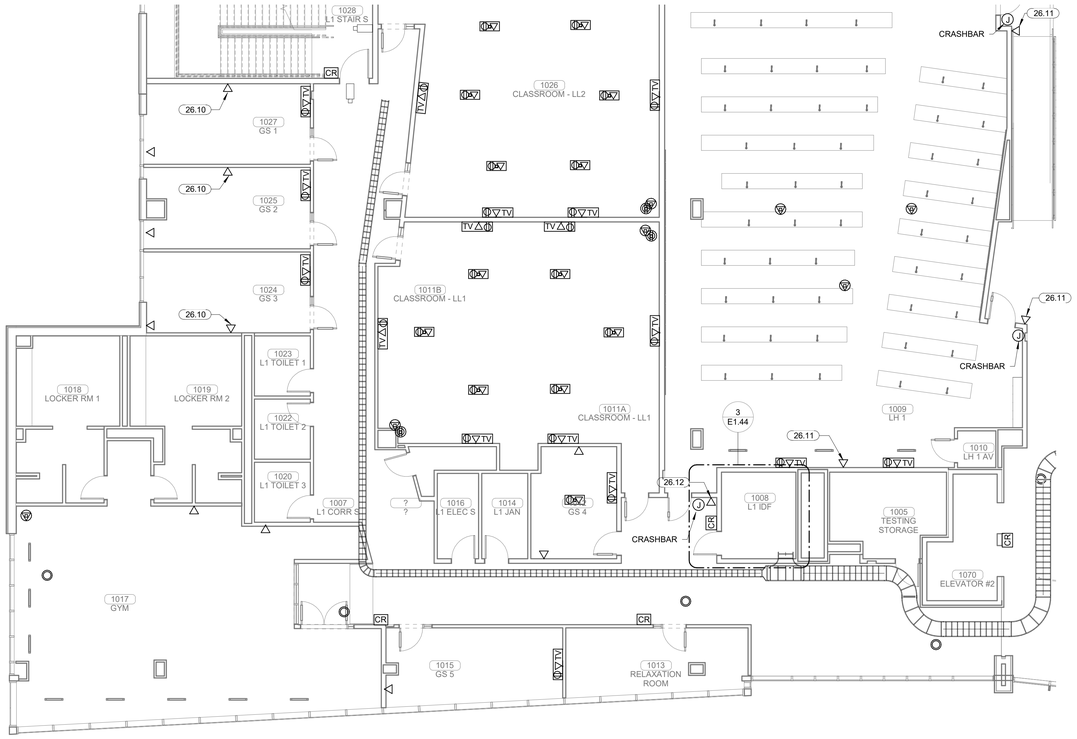
SYSTEMS PLAN LEVEL 01 SECTOR 01

KEYNOTES

26.10 DATA FOR SLAVE CLOCK TO BE MOUNTED AT +96" A.F.F.

26.11 DATA FOR SLAVE CLOCK TO BE MOUNTED AT +120" A.F.F.

26.12 DATA FOR CONFERENCE SYSTEM TO BE MOUNTED AT +48" A.F.F.



PLAN NORTH

TRUE NORTH

1 SYSTEMS PLAN LEVEL 01 SECTOR 02

1/8" = 1'-0"

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TAHLEQUAH, OKLAHOMA

KEY PLAN:

02 | 01

PROJECT PHASE:

95% CONSTRUCTION DOCUMENTS

REVISIONS

#	DATE	DESCRIPTION

DATE: 07-26-19

JOB NUMBER: 17-13

SHEET NUMBER:

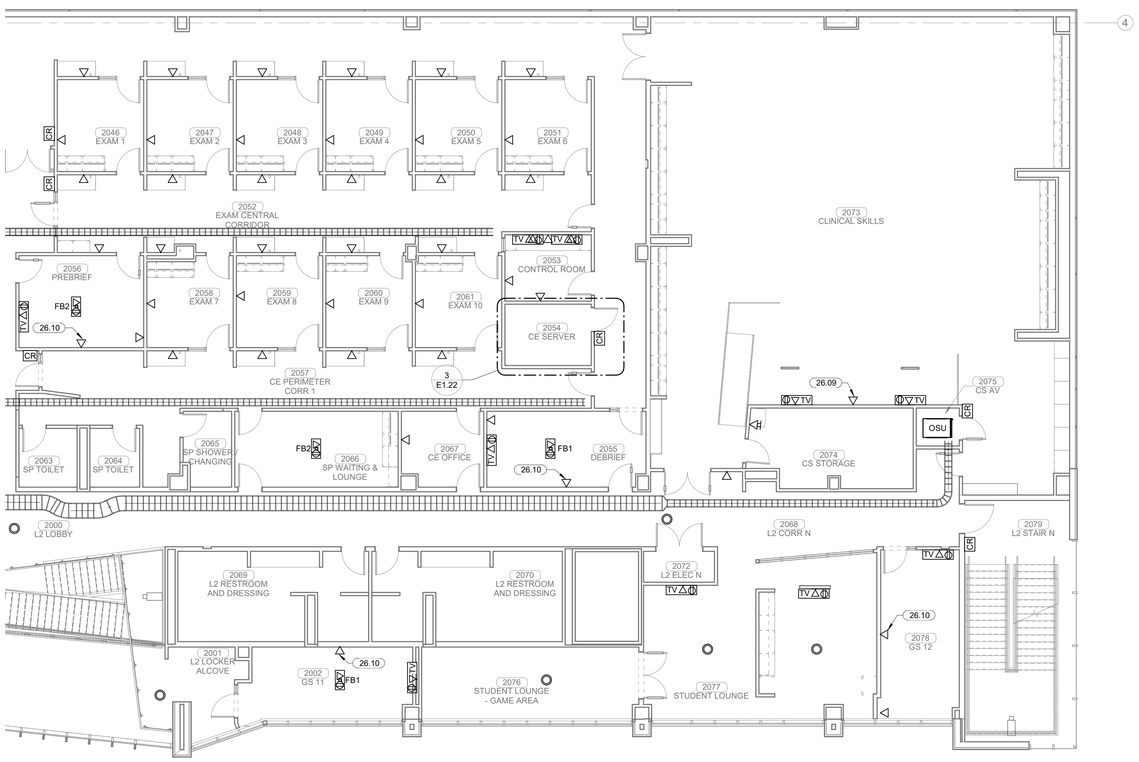
E1.39

SYSTEMS PLAN LEVEL 01 SECTOR 02

KEYNOTES

26.09 DATA FOR SLAVE CLOCK TO BE MOUNTED AT +114" A.F.F.

26.10 DATA FOR SLAVE CLOCK TO BE MOUNTED AT +96" A.F.F.



PLAN NORTH

TRUE NORTH

1 SYSTEMS PLAN LEVEL 02 SECTOR 01

1/8" = 1'-0"

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TAHLEQUAH, OKLAHOMA

KEY PLAN:

02 01

PROJECT PHASE:

95% CONSTRUCTION DOCUMENTS

REVISIONS

#	DATE	DESCRIPTION

DATE: 07-26-19

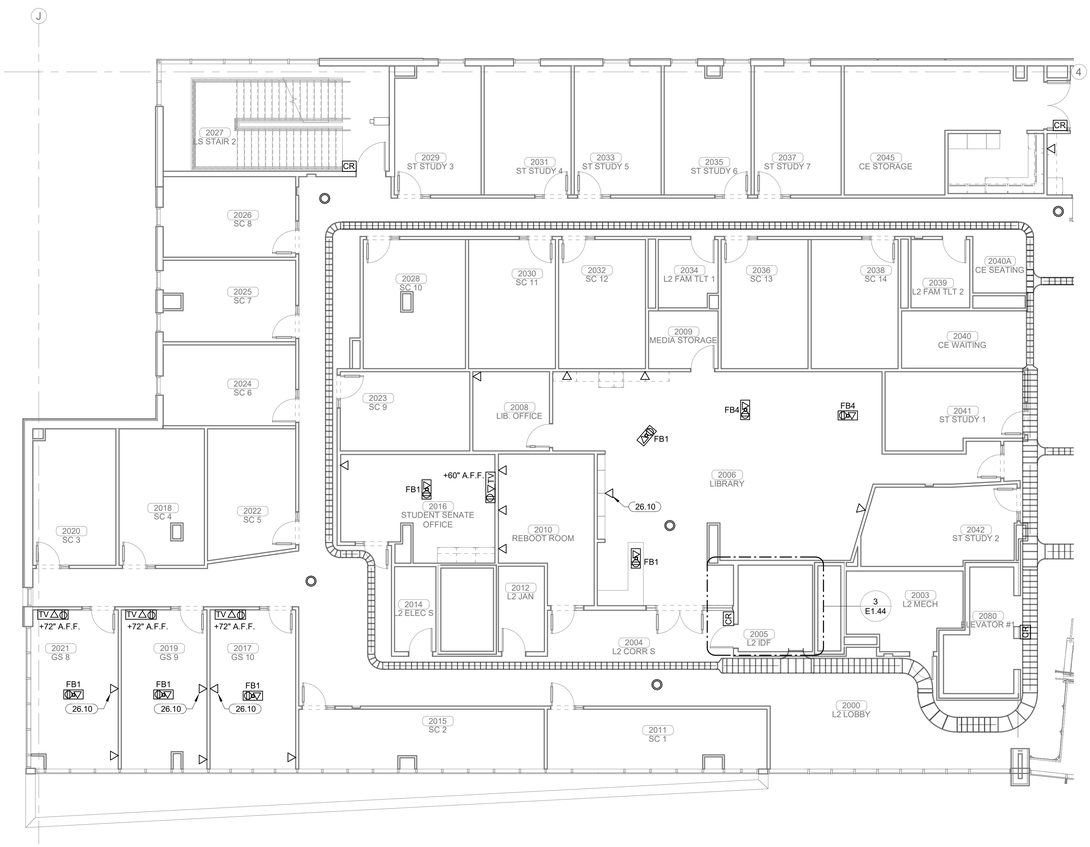
JOB NUMBER: 17-13

SHEET NUMBER: E1.40

SYSTEMS PLAN LEVEL 02 SECTOR 01

KEYNOTES

26.10 DATA FOR SLAVE CLOCK TO BE MOUNTED AT +96" A.F.F.



PLAN NORTH

TRUE NORTH

1 SYSTEMS PLAN LEVEL 02 SECTOR 02

1/8" = 1'-0"

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TAHLEQUAH, OKLAHOMA

KEY PLAN:

02 01

PROJECT PHASE:

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REVISIONS		
#	DATE	DESCRIPTION

DATE:	JOB NUMBER:
07-26-19	17-13

SHEET NUMBER:

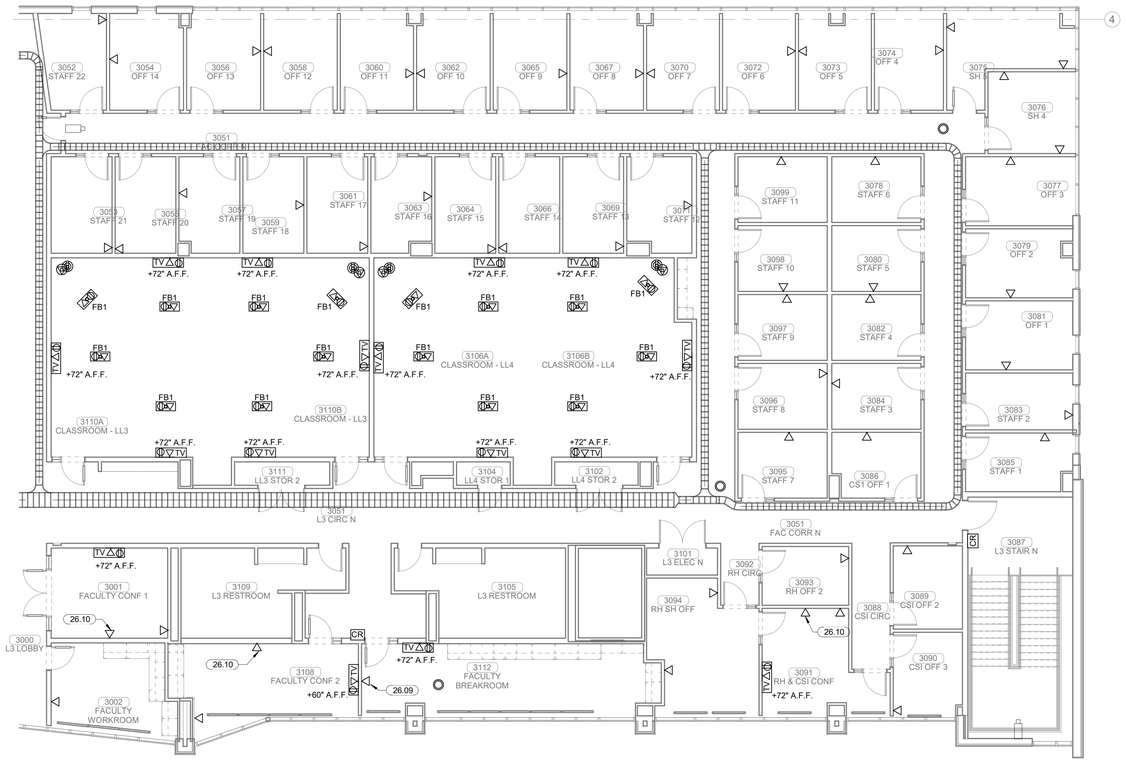
E1.41

SYSTEMS PLAN LEVEL 02 SECTOR 02

KEYNOTES

26.09 DATA FOR SLAVE CLOCK TO BE MOUNTED AT +114" A.F.F.

26.10 DATA FOR SLAVE CLOCK TO BE MOUNTED AT +96" A.F.F.



PLAN NORTH

TRUE NORTH

1 SYSTEMS PLAN LEVEL 03 SECTOR 01

1/8" = 1'-0"

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02 01

PROJECT PHASE:

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REVISIONS

#	DATE	DESCRIPTION

DATE:	JOB NUMBER:
07-26-19	17-13

SHEET NUMBER:

E1.42

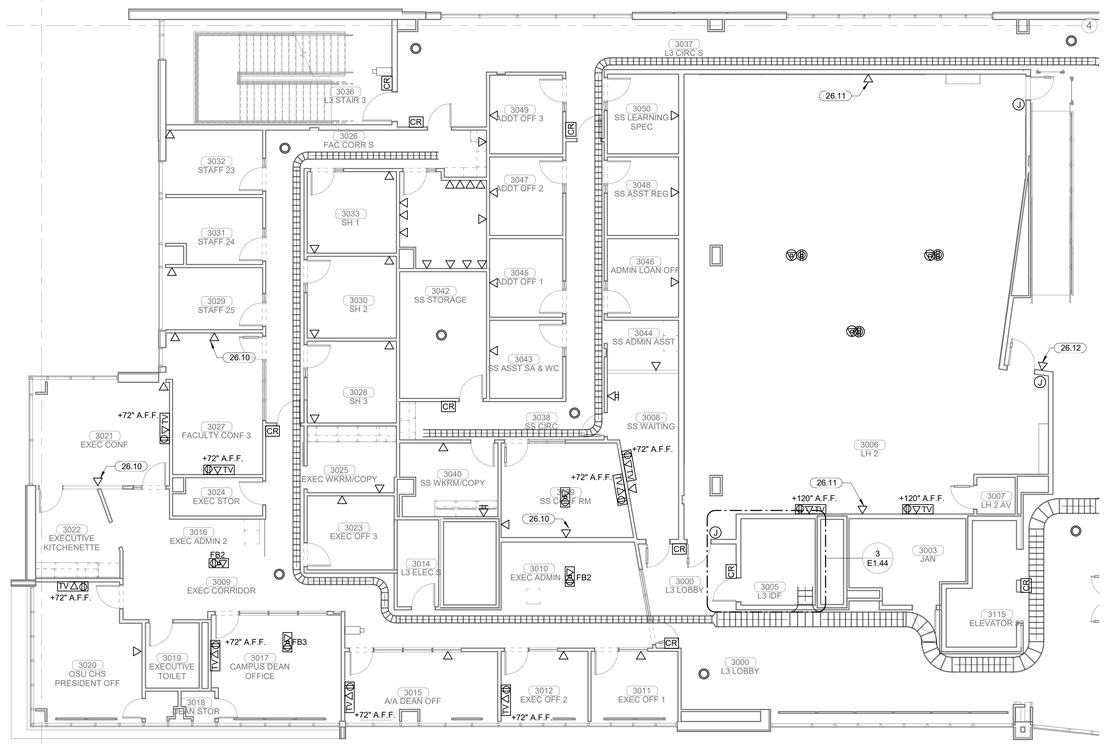
SYSTEMS PLAN LEVEL 03 SECTOR 01

KEYNOTES

26.10 DATA FOR SLAVE CLOCK TO BE MOUNTED AT +96" A.F.F.

26.11 DATA FOR SLAVE CLOCK TO BE MOUNTED AT +120" A.F.F.

26.12 DATA FOR CONFERENCE SYSTEM TO BE MOUNTED AT +48" A.F.F.



PLAN NORTH

TRUE NORTH

1 SYSTEMS PLAN LEVEL 03 SECTOR 02

1/8" = 1'-0"

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02 01

PROJECT PHASE:

95% CONSTRUCTION DOCUMENTS

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#	DATE	DESCRIPTION

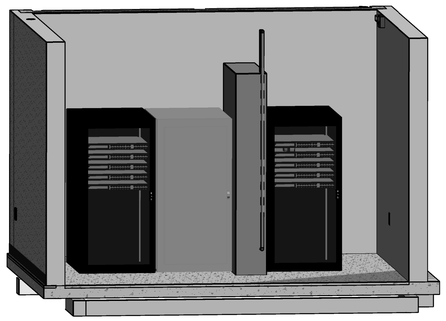
DATE: 07-26-19

JOB NUMBER: 17-13

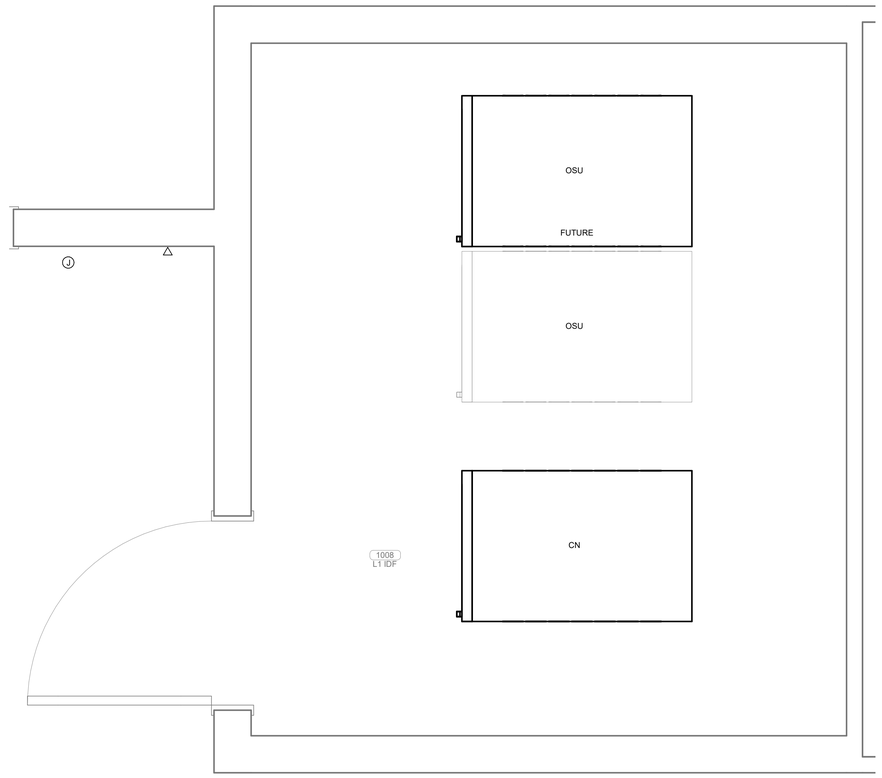
SHEET NUMBER:

E1.43

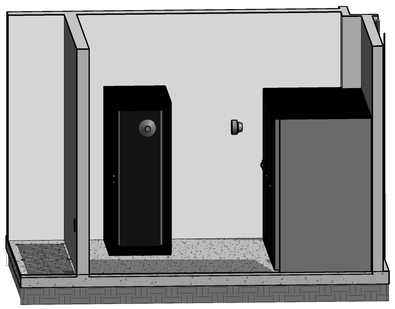
SYSTEMS PLAN LEVEL 03 SECTOR 02



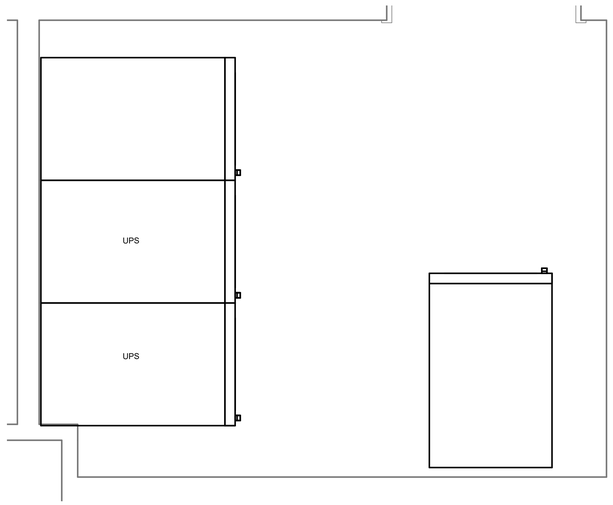
4 TYPICAL IDF ROOM 3D



3 TYPICAL IDF ROOM
1" = 1'-0"



2 UPS ROOM 3D



1 ENLARGED UPS ROOM
1" = 1'-0"

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TAHLEQUAH, OKLAHOMA

KEY PLAN:

02 01

PROJECT PHASE:

95% CONSTRUCTION DOCUMENTS

REVISIONS:

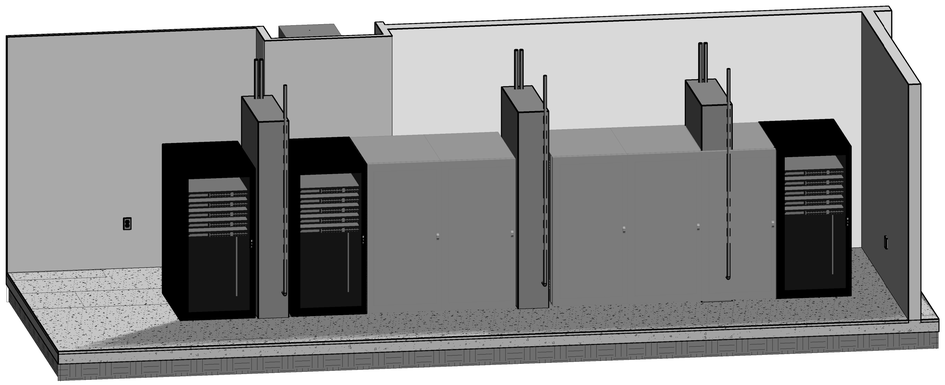
#	DATE	DESCRIPTION

DATE:	JOB NUMBER:
07-26-19	17-13

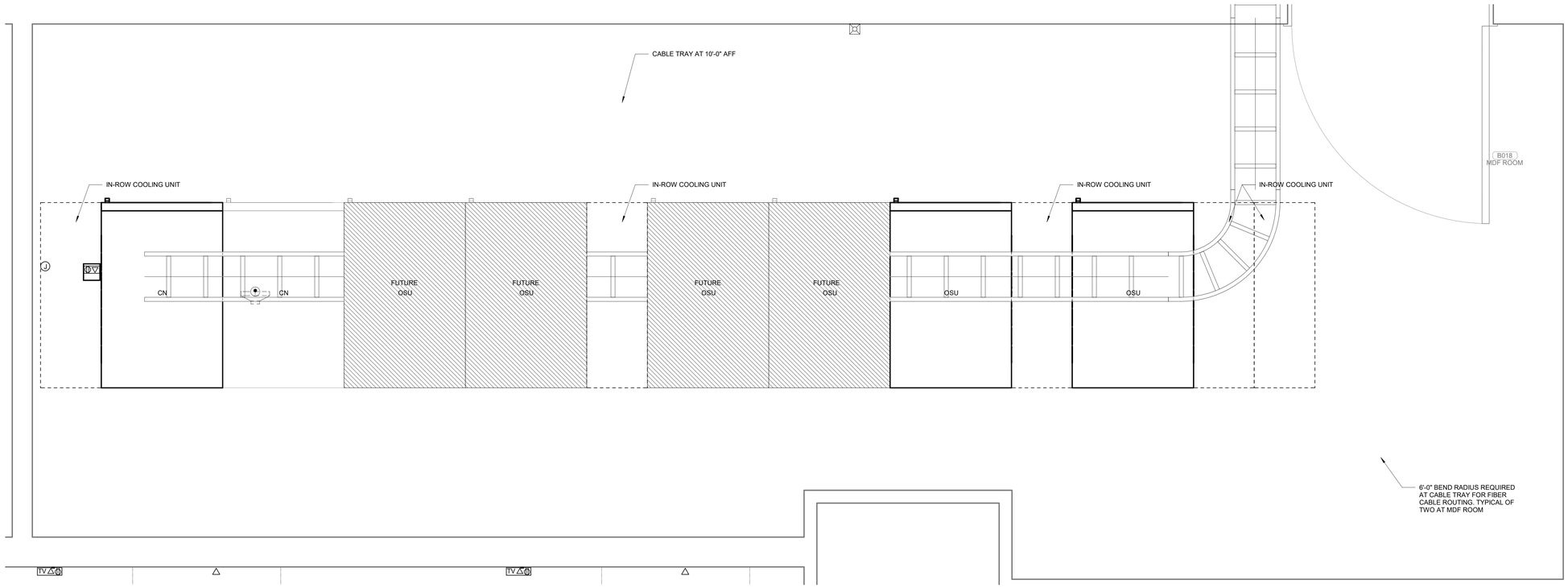
SHEET NUMBER:

E1.44

ENLARGED UPS & IDF ROOMS



2 **MDF ROOM 3D**



1 **ENLARGED MDF ROOM**
1" = 1'-0"

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KEY PLAN:

02 01

PROJECT PHASE:

95% CONSTRUCTION DOCUMENTS

REVISIONS:

#	DATE	DESCRIPTION

DATE:	JOB NUMBER:
07-26-19	17-13

SHEET NUMBER:

E1.45

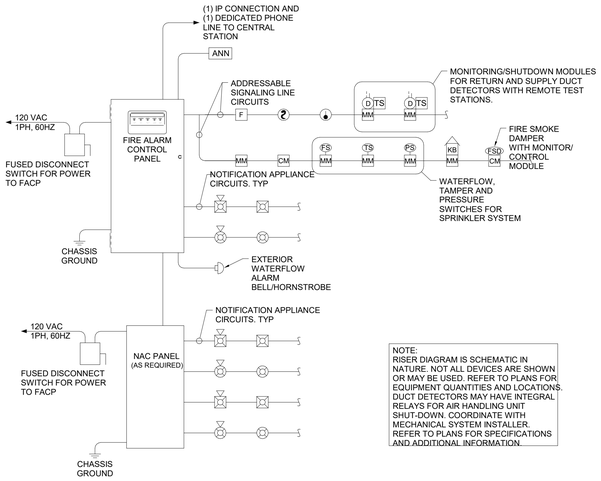
ENLARGED MDF ROOM

FIRE ALARM INSTALLATION NOTES

1	SYSTEM SHALL BE INSTALLED IN CONFORMANCE WITH NFPA 72 AND LOCAL CODES AND REGULATIONS. ALL EQUIPMENT AND MATERIALS SHALL BE UL LISTED AND APPROVED BY THE AUTHORITY HAVING JURISDICTION
2	INTERFACE WITH AND MONITOR ALL FIRE SUPPRESSION SYSTEM DEVICES INCLUDING (BUT NOT LIMITED TO) SPRINKLER FLOW AND TAMPER SWITCHES
3	WIRE AND CABLE SHALL BE UL LISTED AND LABELED AS COMPLYING WITH NFPA 70, ARTICLE 760. SIGNALING LINE CIRCUITS TO BE TWISTED, SHIELDED PAIR, SIZED AS RECOMMENDED BY SYSTEM MANUFACTURER. NON-POWER-LIMITED CIRCUITS TO BE SOLID-COPPER CONDUCTORS WITH 600-V RATED, 75 DEG C, COLOR-CODED INSULATION. 9.1 LOW-VOLTAGE CIRCUITS: NO. 16 AWG, MINIMUM 9.2 LINE-VOLTAGE CIRCUITS: NO. 12 AWG, MINIMUM
4	INSTALL AND TEST SYSTEMS ACCORDING TO NFPA 72. COMPLY WITH NECA 1
5	TEST ALL SYSTEM DEVICES FOR PROPER OPERATION IN THE PRESENCE OF THE AHJ AND OTHER OFFICIALS INSPECTING THE FIRE ALARM SYSTEM
6	IF REQUIRED BY THE LOCAL AHJ, EQUIPMENT DATA SHEETS AND BATTERY CALCULATIONS IN ACCEPTANCE WITH NFPA 72 SHALL BE PERFORMED BY THE FIRE ALARM SYSTEM MANUFACTURER/INSTALLER TO MATCH EQUIPMENT TO BE INSTALLED
7	SYSTEM INSTALLER SHALL BE A LICENSED FIRE ALARM CONTRACTOR IN THE RESPECTIVE STATE OF THIS PROJECT
8	FIRE ALARM CONTROL PANEL SHALL BE MODULAR, POWER-LIMITED DESIGN WITH ELECTRONIC MODULES. UL 864 LISTED, AND DESIGNED TO TRANSMIT ALARM, TROUBLE, AND SUPERVISORY SIGNALS TO A UL LISTED CENTRAL STATION THROUGH A DIGITAL ALARM COMMUNICATOR TRANSMITTER WITH (1) ETHERNET PORT CONNECTION AND (1) DEDICATED TELEPHONE LINE
9	PROVIDE 120VAC POWER THROUGH DEDICATED LOCKING BREAKER AT POWER PANEL
10	GROUND THE FACP AND ALL ASSOCIATED CIRCUITS
11	INSTALL A #6 AWG GROUND WIRE FROM THE TELE-COMMUNICATIONS EQUIPMENT GROUNDING POINT TO THE FACP
12	SYSTEM SHALL INCLUDE 24V DC POWER SYSTEM WITH SEALED LEAD CALCIUM BATTERIES AND AUTOMATIC BATTERY CHARGER IN ACCORDANCE WITH NFPA 72
13	PROVIDE (1) IP CONNECTION TO CUSTOMERS INTERNET NETWORK AND (1) DEDICATED TELEPHONE LINE TERMINATED WITH (1) RJ-31X MODULAR OUTLET AT DACT LOCATION

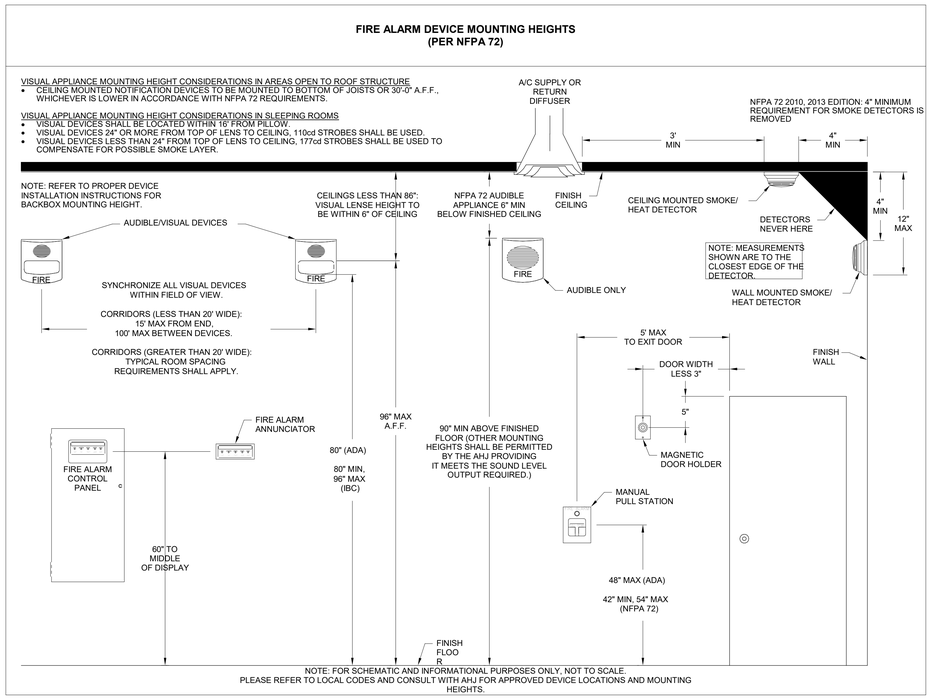
FIRE ALARM GENERAL NOTES

1	FIRE ALARM SYSTEM DESIGN, INSTALLATION AND MATERIALS SHALL BE IN ACCORDANCE WITH NFPA 70 AND NFPA 72. SYSTEM SHALL ALSO MEET ALL APPLICABLE BUILDING CODES, FIRE CODES AND THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION AND INSURANCE CARRIER. VERIFY REQUIREMENTS PRIOR TO BID SUBMITTAL
2	INFORMATION ON CONTRACT DOCUMENTS IS GENERAL INFORMATION AND FOR BID PURPOSES ONLY. PERFORM REQUIRED CALCULATIONS AND COORDINATE WITH OTHER TRADES. DEVIATIONS FROM ENGINEERS LAYOUT WILL NOT BE CONSIDERED UNLESS A FORMALLY SUBMITTED RFI IS RECEIVED AND APPROVED
3	PROVIDE ADDITIONAL MATERIALS AND LABOR REQUIRED DUE TO LACK OF COORDINATION OR TO MEET AUTHORITY HAVING JURISDICTION AND INSURANCE CARRIER REQUIREMENTS AT NO ADDITIONAL COST TO THE OWNER
4	PROVIDE ALL EQUIPMENT AND LABOR REQUIRED FOR A COMPLETE AND OPERATIONAL FIRE ALARM SYSTEM
5	AUDIBLE NOTIFICATION DEVICES SHALL SOUND UNTIL SILENCED AT THE CONTROL PANEL OR REMOTE ANNUNCIATOR AS REQUIRED. VISUAL ALARM IS DISPLAYED UNTIL DEVICE IS RETURNED TO ITS NORMAL POSITION OR SUPERVISORY CONDITION IS CLEARED
6	FORWARD COMPLETED FIRE ALARM CERTIFICATE OF COMPLETION TO THE OWNER
7	REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION
8	PROVIDE CONNECTION TO EXTERIOR WATERFLOW ALARM BELL AS REQUIRED
9	PROVIDE NOTIFICATION, INITIATING AND MONITORING DEVICES AS INDICATED ON THE DRAWINGS. FIRE ALARM DEVICES SHALL BE OF ONE MANUFACTURER AND SHALL BE LISTED FOR USE WITH THE FIRE ALARM CONTROL PANEL
10	PROVIDE NOTIFICATION APPLIANCE CIRCUIT PANEL(S) TO POWER NOTIFICATION DEVICES AS REQUIRED. CONNECT TO FIRE ALARM SYSTEM
11	THE FIRE ALARM CONTROL PANEL AND REMOTE ANNUNCIATOR LOCATIONS SHOWN SHALL BE COORDINATED WITH THE FIRE DEPARTMENT AND AHJ PRIOR TO INSTALLATION
12	PROVIDE DEDICATED CONNECTION OF THE FIRE ALARM SYSTEM TO A UL LISTED CENTRAL STATION
13	PROVIDE KNOX BOX FOR FIRE DEPARTMENT ACCESS. CONNECT TAMPER SWITCH TO FIRE ALARM SYSTEM AS REQUIRED
14	AIR HANDLING SYSTEMS THAT ARE MONITORED SHALL SHUTDOWN AND REMAIN DOWN UNTIL MANUALLY RESET
15	ROOF TOP AIR DISTRIBUTION SYSTEMS EXCEEDING 2,000 CFM: PROVIDE DUCT MOUNTED SMOKE DETECTORS FOR AIR HANDLING UNIT SHUTDOWN AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE MONITOR MODULE FOR SUPPLY AIR DUCT DETECTOR AND RELAY/MONITOR MODULE FOR RETURN AIR DUCT DETECTOR. REFER TO MECHANICAL SHEETS FOR AIR HANDLING UNIT AND DUCTWORK LAYOUT AND DETAILS
16	DUCT SMOKE DETECTION SHALL TRANSMIT A SUPERVISORY SIGNAL TO THE FACP



NOTE:
RISER DIAGRAM IS SCHEMATIC IN NATURE. NOT ALL DEVICES ARE SHOWN OR MAY BE USED. REFER TO PLANS FOR EQUIPMENT QUANTITIES AND LOCATIONS. DUCT DETECTORS MAY HAVE INTEGRAL RELAYS FOR AIR HANDLING UNIT SHUT-DOWN. COORDINATE WITH MECHANICAL SYSTEM INSTALLER. REFER TO PLANS FOR SPECIFICATIONS AND ADDITIONAL INFORMATION.

2 TYPICAL FIRE ALARM RISER DETAIL
N.T.S.



1 FIRE ALARM MOUNTING HEIGHTS
N.T.S.

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PROJECT NO. 18163R

95 % COMPLETE

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CLIENT:

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TAHLEQUAH, OKLAHOMA

KEY PLAN:

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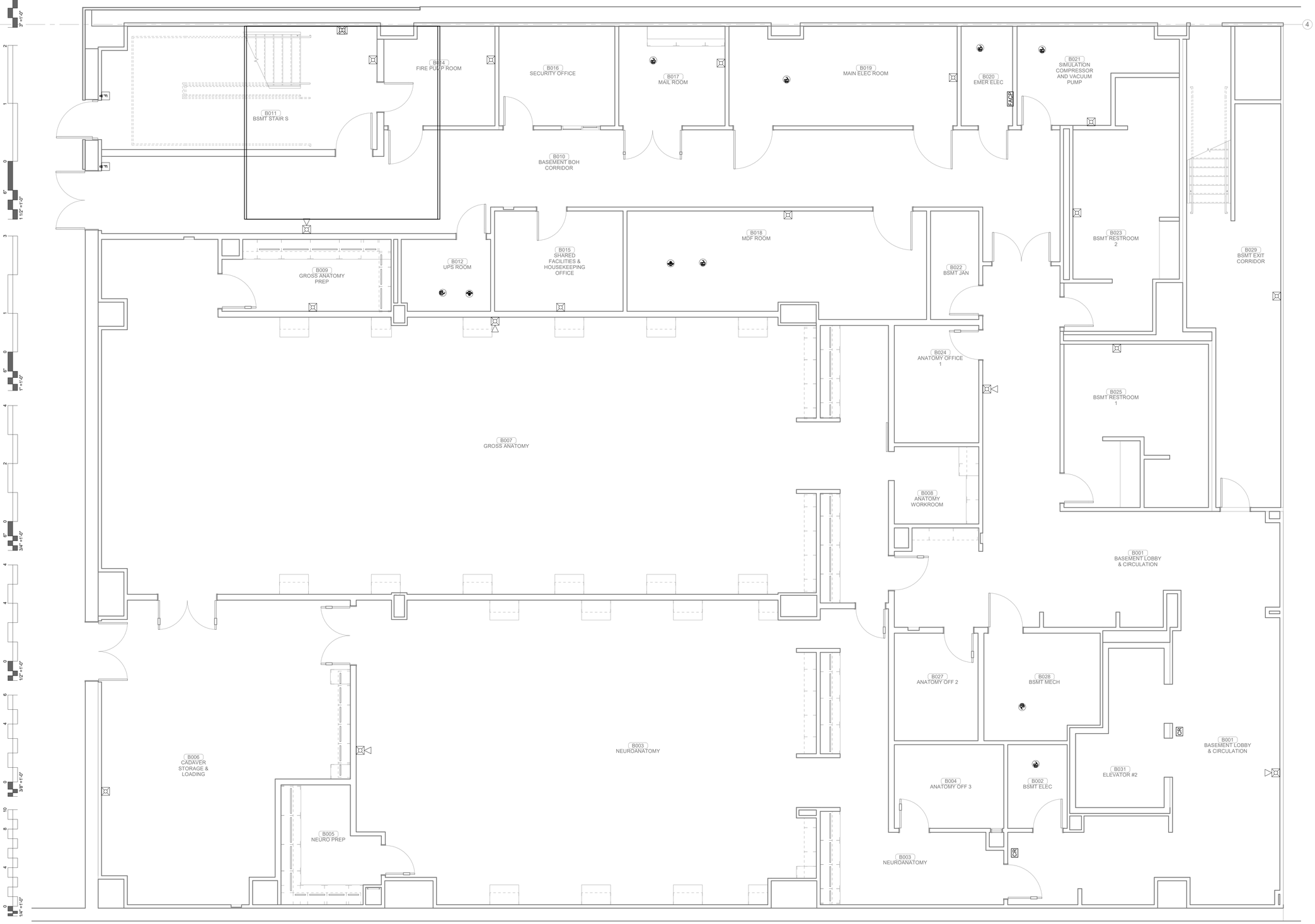
E1.46

FIRE ALARM DETAILS



1 FIRE ALARM PLAN BASEMENT LEVEL SECTOR 02
1/4" = 1'-0"

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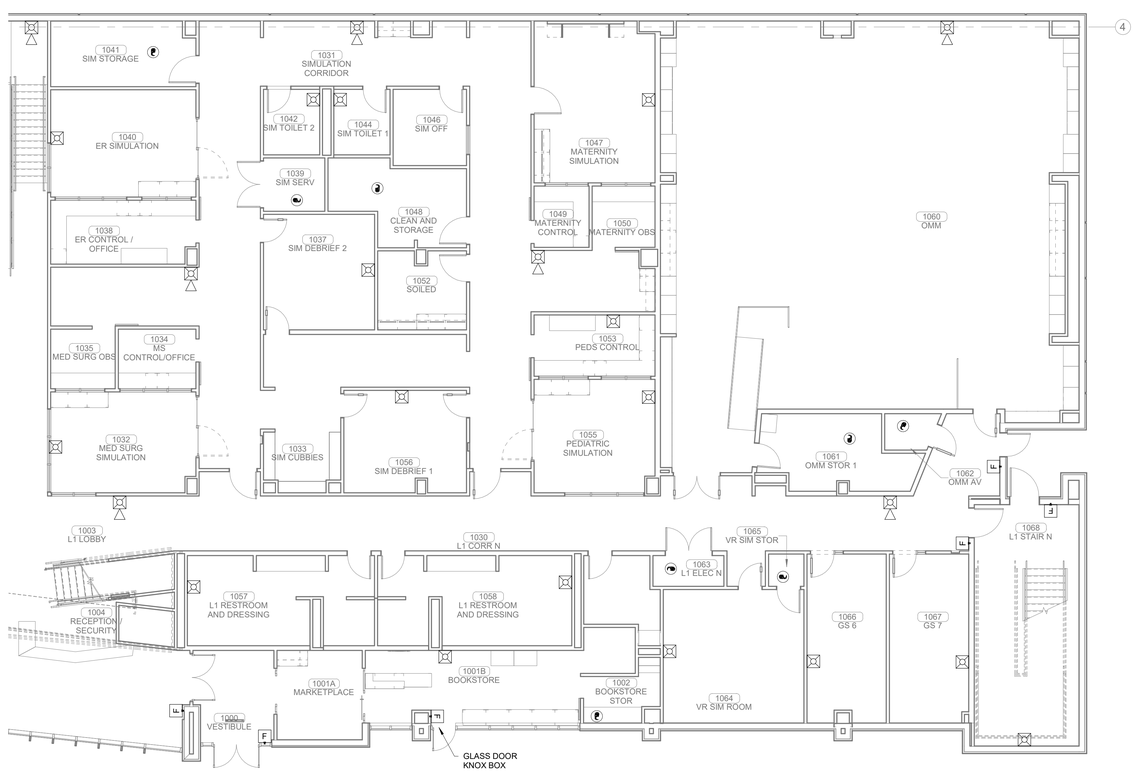
E1.47

FIRE ALARM PLAN BASEMENT LEVEL SECTOR 02



PLAN NORTH

TRUE NORTH

1 FIRE ALARM LEVEL 01 SECTOR 01

1/8" = 1'-0"

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KEY PLAN:

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PROJECT PHASE:

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#	DATE	DESCRIPTION

DATE:	JOB NUMBER:
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FIRE ALARM LEVEL 01
SECTOR 01

PLAN NORTH

TRUE NORTH

1 FIRE ALARM LEVEL 01 SECTOR 02

1/8" = 1'-0"

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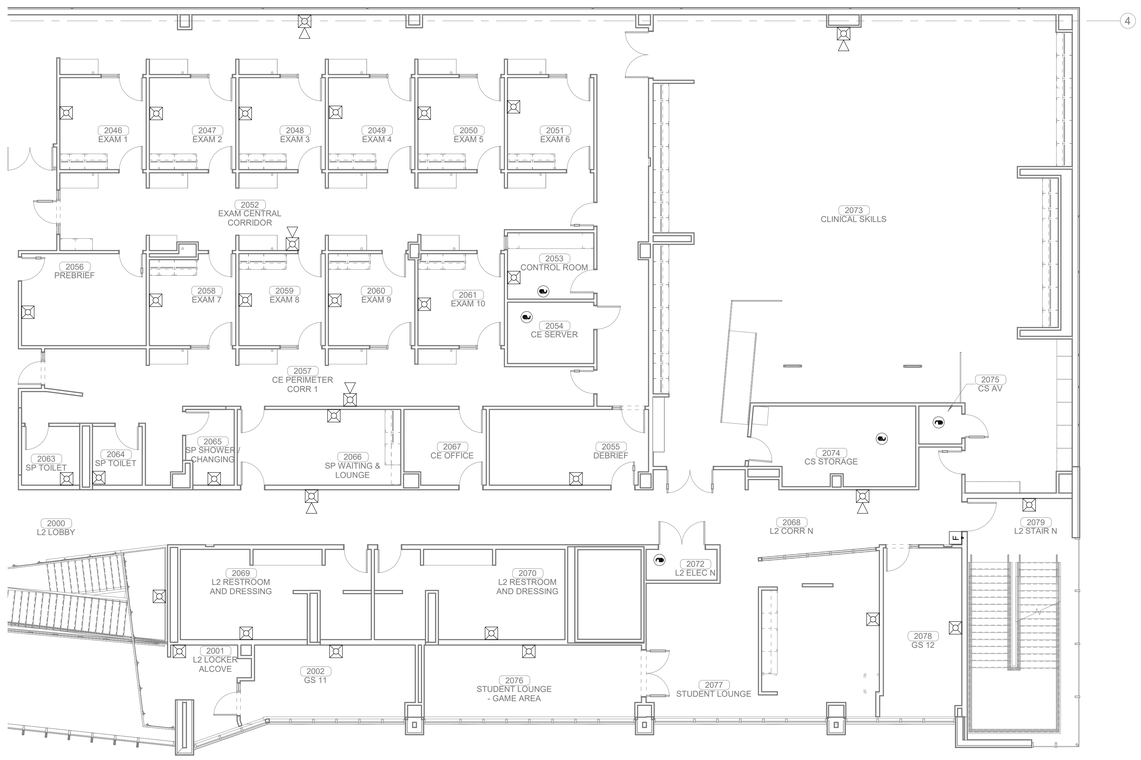
E1.49

FIRE ALARM LEVEL 01 SECTOR 02



PLAN NORTH

TRUE NORTH

1 FIRE ALARM LEVEL 02 SECTOR 01

1/8" = 1'-0"

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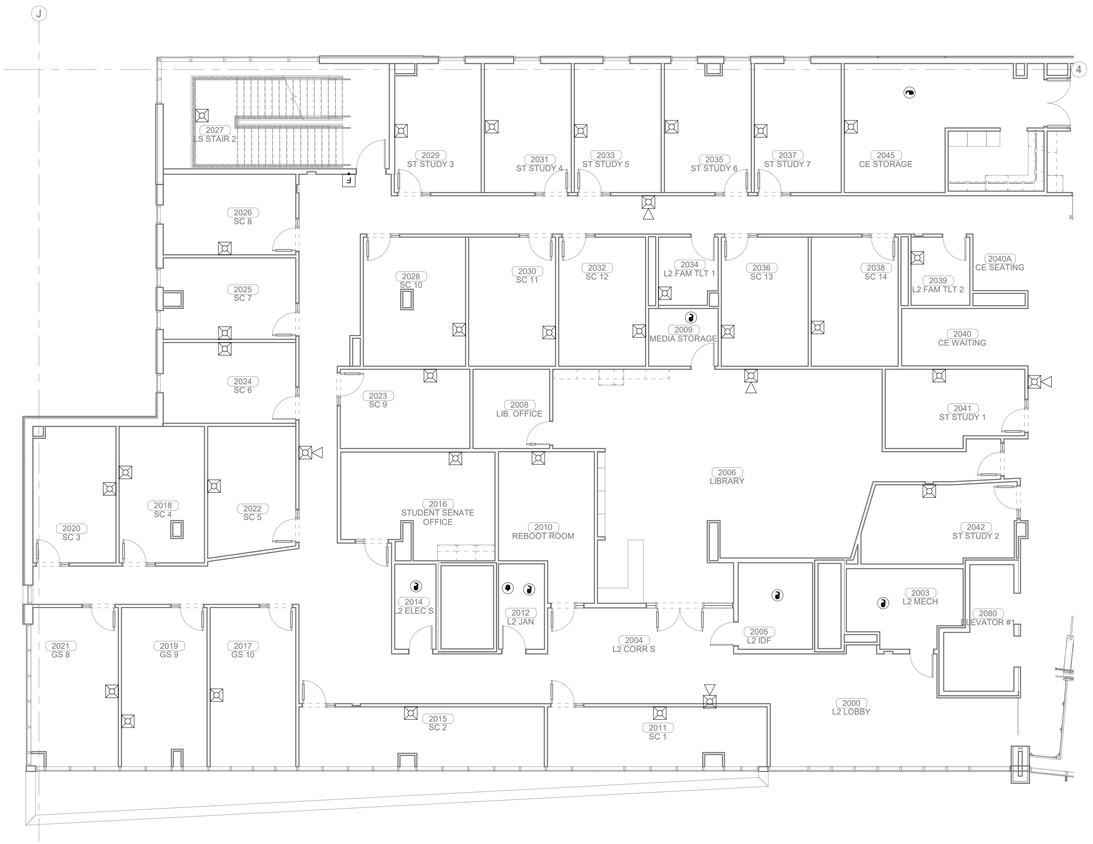
E1.50

FIRE ALARM LEVEL 02
SECTOR 01



PLAN NORTH

TRUE NORTH

1 FIRE ALARM LEVEL 02 SECTOR 02

1/8" = 1'-0"

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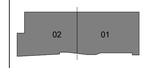

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DATE:	JOB NUMBER:
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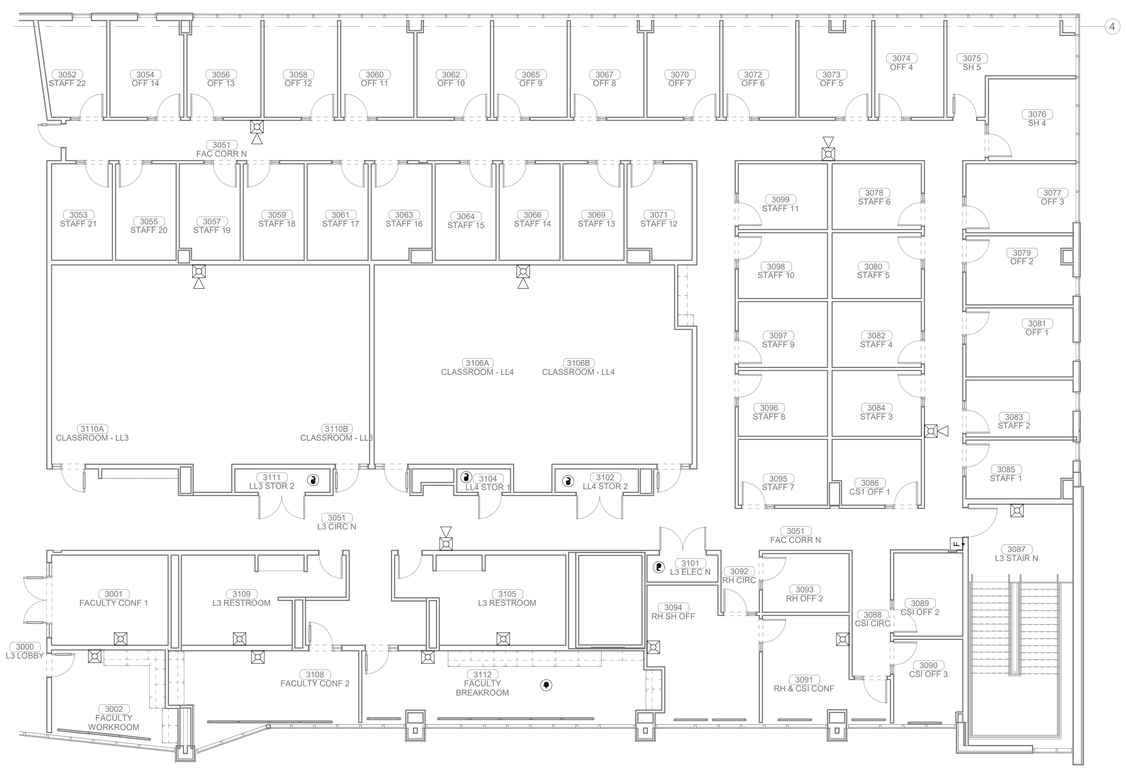
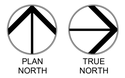
E1.51

FIRE ALARM LEVEL 02 SECTOR 02





1 FIRE ALARM LEVEL 03 SECTOR 01
1/8" = 1'-0"

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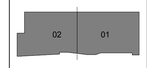

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#	DATE	DESCRIPTION

DATE: 07-26-19

JOB NUMBER: 17-13

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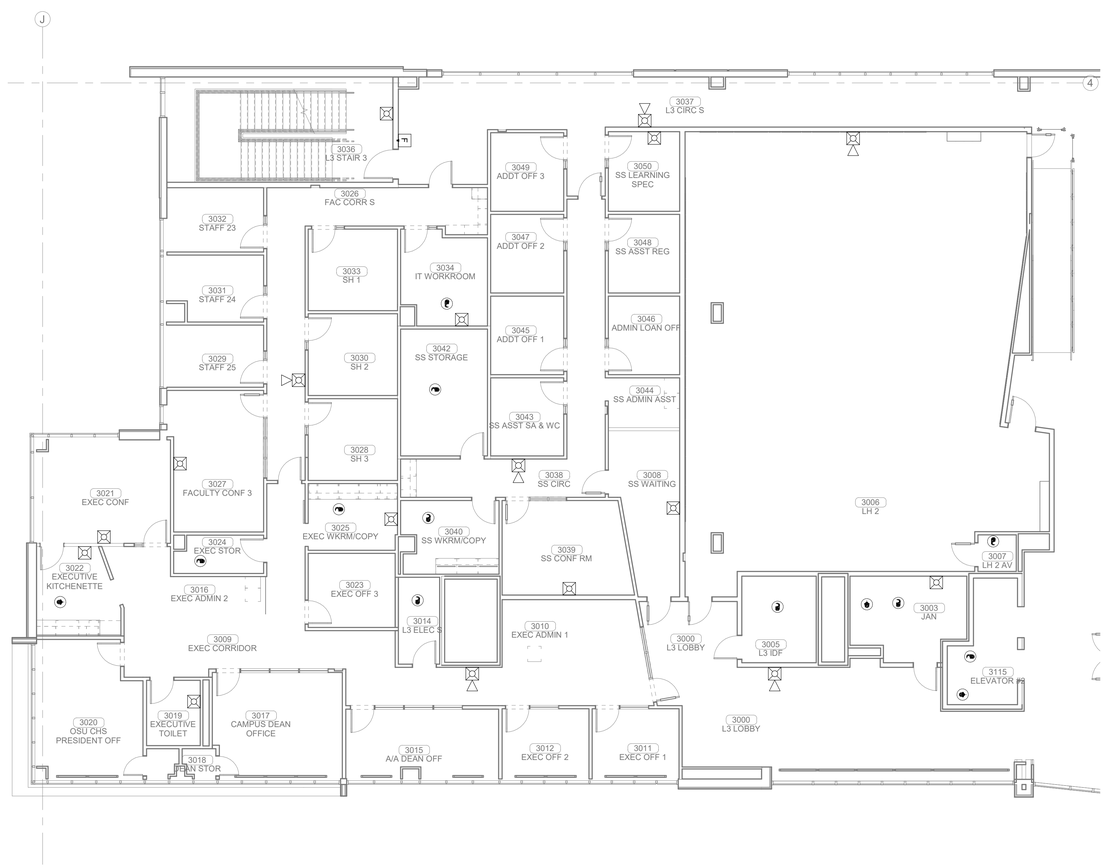
FIRE ALARM LEVEL 03 SECTOR 01



PLAN NORTH

TRUE NORTH

1 FIRE ALARM LEVEL 03 SECTOR 02

1/8" = 1'-0"

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E1.53

FIRE ALARM LEVEL 03 SECTOR 02

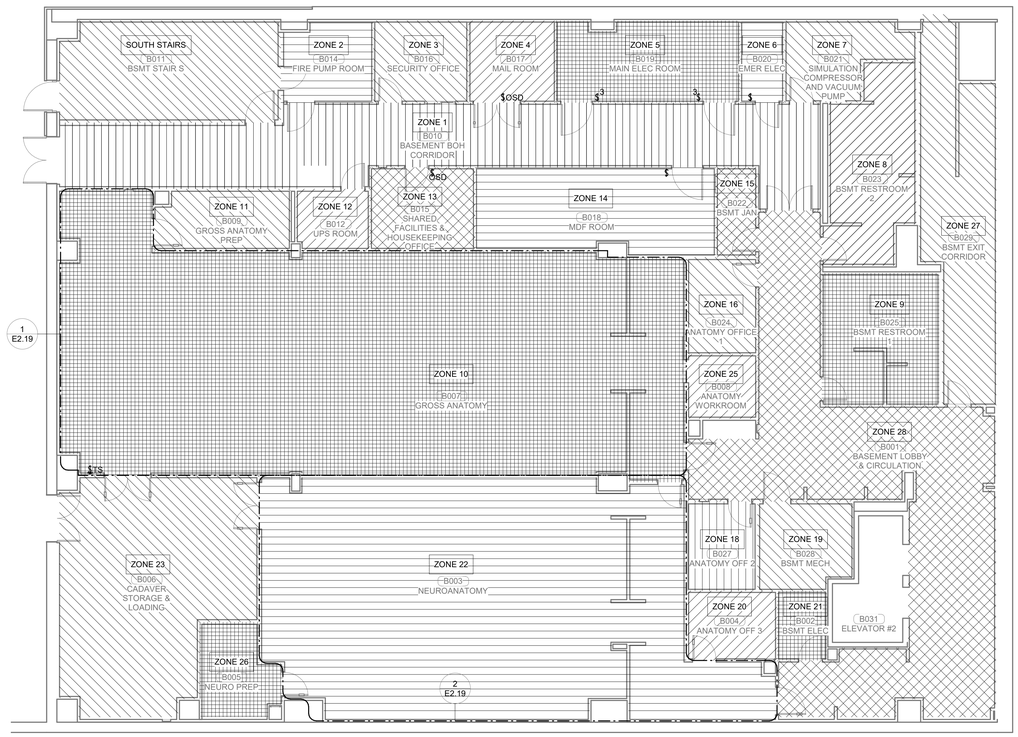
LUMINAIRE SCHEDULE

NOTES:
1. EC SHALL PROVIDE A SUBMITTAL PACKAGE INCLUDING CUTSHEETS FOR EACH FIXTURE.
2. EC SHALL PROVIDE ALL ACCESSORIES FOR A COMPLETE ASSEMBLY INCLUDING MOUNTING HARDWARE.
3. THE MOUNTING TYPE OF EACH FIXTURE SHALL BE COMPATIBLE WITH INSTALLATION SURFACE OF EACH FIXTURE.
4. ALL FINISHES SHALL BE COORDINATED WITH ARCHITECT AND DOCUMENTED ON SUBMITTALS.

TYPE	COLOR TEMP	LAMP	DIMMING	VOLTS	WATTS	DESCRIPTION	MANUFACTURER
B1	3500K	LED	0-10V	277	36 W	2X4, TROFFER, 4000LM, 80CRI	METALUX - ST - 24C22
B2	3500K	LED	0-10V	277	19 W	2X2, TROFFER, 4000LM, 80CRI	METALUX - ST - 22C22
B3	4000K	LED	0-10V	277	96 W	2X4, TROFFER, 11600LM, 80CRI	WILLIAMS - MDS
D1	3500K	LED	10-100%	277	18 W	6", RECESSED, DOWNLIGHT, WHITE, 2000LM, 80CRI	HALO - PD6
F1	4000K	LED	NA	277	44 W	4' SURFACE STRIP, 4764LM	METALUX - SLSTP
F2	4000K	LED	NA	277	32 W	4' SURFACE STRIP, 4000LM GENERAL DISTRIBUTION,	METALUX - VAPORTITE
L1	3500K	LED	0-10V	277	28 W	5' 6", LED ROPE LIGHT IN 1.5" EXTRUSION, 386 LM PER FT, TRIMLESS FLANGELESS SHEET ROCK EDGE, 85CRI, E.C. TO VERIFY DRIVER TYPE AND ALL PROVIDE ALL NECESSARY ACCESSORIES FOR CUSTOM LENGTH FIXTURES	PURE EDGE - TRULINE 1.6A
L2	3500K	LED	0-10V	277	60 W	11' 11", LED ROPE LIGHT IN 1.5" EXTRUSION, 386 LM PER FT, TRIMLESS FLANGELESS SHEET ROCK EDGE, 85CRI, E.C. TO VERIFY DRIVER TYPE AND ALL PROVIDE ALL NECESSARY ACCESSORIES FOR CUSTOM LENGTH FIXTURES	PURE EDGE - TRULINE 1.6A
L4	3500K	LED	0-10V	277	40 W	8', LED ROPE LIGHT IN 1.5" EXTRUSION, 386 LM PER FT, TRIMLESS FLANGELESS SHEET ROCK EDGE, 85CRI, E.C. TO VERIFY DRIVER TYPE AND ALL PROVIDE ALL NECESSARY ACCESSORIES FOR CUSTOM LENGTH FIXTURES	PURE EDGE - TRULINE 1.6A
L5	3500K	LED	0-10V	277	286 W	57' 2", LED ROPE LIGHT IN 1.5" EXTRUSION, 386 LM PER FT, TRIMLESS FLANGELESS SHEET ROCK EDGE, 85CRI, E.C. TO VERIFY DRIVER TYPE AND ALL PROVIDE ALL NECESSARY ACCESSORIES FOR CUSTOM LENGTH FIXTURES	PURE EDGE - TRULINE 1.6A
L6	3500K	LED	0-10V	277	160 W	31' 8", LED ROPE LIGHT IN 1.5" EXTRUSION, 386 LM PER FT, TRIMLESS FLANGELESS SHEET ROCK EDGE, 85CRI, E.C. TO VERIFY DRIVER TYPE AND ALL PROVIDE ALL NECESSARY ACCESSORIES FOR CUSTOM LENGTH FIXTURES	PURE EDGE - TRULINE 1.6A
L7	3500K	LED	0-10V	277	62 W	12' 3", LED ROPE LIGHT IN 1.5" EXTRUSION, 386 LM PER FT, TRIMLESS FLANGELESS SHEET ROCK EDGE, 85CRI, E.C. TO VERIFY DRIVER TYPE AND ALL PROVIDE ALL NECESSARY ACCESSORIES FOR CUSTOM LENGTH FIXTURES	PURE EDGE - TRULINE 1.6A
L8	3500K	LED	0-10V	277	111 W	22' 2", LED ROPE LIGHT IN 1.5" EXTRUSION, 386 LM PER FT, TRIMLESS FLANGELESS SHEET ROCK EDGE, 85CRI, E.C. TO VERIFY DRIVER TYPE AND ALL PROVIDE ALL NECESSARY ACCESSORIES FOR CUSTOM LENGTH FIXTURES	PURE EDGE - TRULINE 1.6A
L9	3500K	LED	0-10V	277	29 W	5' 8", LED ROPE LIGHT IN 1.5" EXTRUSION, 386 LM PER FT, TRIMLESS FLANGELESS SHEET ROCK EDGE, 85CRI, E.C. TO VERIFY DRIVER TYPE AND ALL PROVIDE ALL NECESSARY ACCESSORIES FOR CUSTOM LENGTH FIXTURES	PURE EDGE - TRULINE 1.6A
L11	3500K	LED	0-10V	277	501 W	100' 1", LED ROPE LIGHT IN 1.5" EXTRUSION, 386 LM PER FT, TRIMLESS FLANGELESS SHEET ROCK EDGE, 85CRI, E.C. TO VERIFY DRIVER TYPE AND ALL PROVIDE ALL NECESSARY ACCESSORIES FOR CUSTOM LENGTH FIXTURES	PURE EDGE - TRULINE 1.6A
L12	3500K	LED	0-10V	277	105 W	21', LED ROPE LIGHT IN 1.5" EXTRUSION, 386 LM PER FT, TRIMLESS FLANGELESS SHEET ROCK EDGE, 85CRI, E.C. TO VERIFY DRIVER TYPE AND ALL PROVIDE ALL NECESSARY ACCESSORIES FOR CUSTOM LENGTH FIXTURES	PURE EDGE - TRULINE 1.6A
L13	3500K	LED	0-10V	277	67 W	13' 4", LED ROPE LIGHT IN 1.5" EXTRUSION, 386 LM PER FT, TRIMLESS FLANGELESS SHEET ROCK EDGE, 85CRI, E.C. TO VERIFY DRIVER TYPE AND ALL PROVIDE ALL NECESSARY ACCESSORIES FOR CUSTOM LENGTH FIXTURES	PURE EDGE - TRULINE 1.6A
L14	3500K	LED	0-10V	277	62 W	12' 3", LED ROPE LIGHT IN 1.5" EXTRUSION, 386 LM PER FT, TRIMLESS FLANGELESS SHEET ROCK EDGE, 85CRI, E.C. TO VERIFY DRIVER TYPE AND ALL PROVIDE ALL NECESSARY ACCESSORIES FOR CUSTOM LENGTH FIXTURES	PURE EDGE - TRULINE 1.6A
L15	3500K	LED	0-10V	277	121 W	24' 2", LED ROPE LIGHT IN 1.5" EXTRUSION, 386 LM PER FT, TRIMLESS FLANGELESS SHEET ROCK EDGE, 85CRI, E.C. TO VERIFY DRIVER TYPE AND ALL PROVIDE ALL NECESSARY ACCESSORIES FOR CUSTOM LENGTH FIXTURES	PURE EDGE - TRULINE 1.6A
L16	3500K	LED	0-10V	277	447 W	89' 4", LED ROPE LIGHT IN 1.5" EXTRUSION, 386 LM PER FT, TRIMLESS FLANGELESS SHEET ROCK EDGE, 85CRI, E.C. TO VERIFY DRIVER TYPE AND ALL PROVIDE ALL NECESSARY ACCESSORIES FOR CUSTOM LENGTH FIXTURES	PURE EDGE - TRULINE 1.6A
L18	3500K	LED	0-10V	277	67 W	13' 4", LED ROPE LIGHT IN 1.5" EXTRUSION, 386 LM PER FT, TRIMLESS FLANGELESS SHEET ROCK EDGE, 85CRI, E.C. TO VERIFY DRIVER TYPE AND ALL PROVIDE ALL NECESSARY ACCESSORIES FOR CUSTOM LENGTH FIXTURES	PURE EDGE - TRULINE 1.6A
L19	3500K	LED	0-10V	277	72 W	14' 3", LED ROPE LIGHT IN 1.5" EXTRUSION, 386 LM PER FT, TRIMLESS FLANGELESS SHEET ROCK EDGE, 85CRI, E.C. TO VERIFY DRIVER TYPE AND ALL PROVIDE ALL NECESSARY ACCESSORIES FOR CUSTOM LENGTH FIXTURES	PURE EDGE - TRULINE 1.6A
L20	3500K	LED	0-10V	277	50 W	10', LED ROPE LIGHT IN 1.5" EXTRUSION, 386 LM PER FT, TRIMLESS FLANGELESS SHEET ROCK EDGE, 85CRI, E.C. TO VERIFY DRIVER TYPE AND ALL PROVIDE ALL NECESSARY ACCESSORIES FOR CUSTOM LENGTH FIXTURES	PURE EDGE - TRULINE 1.6A
L21	3500K	LED	0-10V	277	293 W	58' 7", LED ROPE LIGHT IN 1.5" EXTRUSION, 386 LM PER FT, TRIMLESS FLANGELESS SHEET ROCK EDGE, 85CRI, E.C. TO VERIFY DRIVER TYPE AND ALL PROVIDE ALL NECESSARY ACCESSORIES FOR CUSTOM LENGTH FIXTURES	PURE EDGE - TRULINE 1.6A
L22	3500K	LED	0-10V	277	41 W	8' 2", LED ROPE LIGHT IN 1.5" EXTRUSION, 386 LM PER FT, TRIMLESS FLANGELESS SHEET ROCK EDGE, 85CRI, E.C. TO VERIFY DRIVER TYPE AND ALL PROVIDE ALL NECESSARY ACCESSORIES FOR CUSTOM LENGTH FIXTURES	PURE EDGE - TRULINE 1.6A
L23	3500K	LED	0-10V	277	293 W	58' 5", LED ROPE LIGHT IN 1.5" EXTRUSION, 386 LM PER FT, TRIMLESS FLANGELESS SHEET ROCK EDGE, 85CRI, E.C. TO VERIFY DRIVER TYPE AND ALL PROVIDE ALL NECESSARY ACCESSORIES FOR CUSTOM LENGTH FIXTURES	PURE EDGE - TRULINE 1.6A
L24	3500K	LED	0-10V	277	38 W	7' 6", LED ROPE LIGHT IN 1.5" EXTRUSION, 386 LM PER FT, TRIMLESS FLANGELESS SHEET ROCK EDGE, 85CRI, E.C. TO VERIFY DRIVER TYPE AND ALL PROVIDE ALL NECESSARY ACCESSORIES FOR CUSTOM LENGTH FIXTURES	PURE EDGE - TRULINE 1.6A
L25	3500K	LED	0-10V	277	54 W	10' 8", LED ROPE LIGHT IN 1.5" EXTRUSION, 386 LM PER FT, TRIMLESS FLANGELESS SHEET ROCK EDGE, 85CRI, E.C. TO VERIFY DRIVER TYPE AND ALL PROVIDE ALL NECESSARY ACCESSORIES FOR CUSTOM LENGTH FIXTURES	PURE EDGE - TRULINE 1.6A
L26	3500K	LED	0-10V	277	43 W	8' 6", LED ROPE LIGHT IN 1.5" EXTRUSION, 386 LM PER FT, TRIMLESS FLANGELESS SHEET ROCK EDGE, 85CRI, E.C. TO VERIFY DRIVER TYPE AND ALL PROVIDE ALL NECESSARY ACCESSORIES FOR CUSTOM LENGTH FIXTURES	PURE EDGE - TRULINE 1.6A
L27	3500K	LED	0-10V	277	57 W	11' 6", LED ROPE LIGHT IN 1.5" EXTRUSION, 386 LM PER FT, TRIMLESS FLANGELESS SHEET ROCK EDGE, 85CRI, E.C. TO VERIFY DRIVER TYPE AND ALL PROVIDE ALL NECESSARY ACCESSORIES FOR CUSTOM LENGTH FIXTURES	PURE EDGE - TRULINE 1.6A
L28	3500K	LED	0-10V	277	228 W	45' 6", LED ROPE LIGHT IN 1.5" EXTRUSION, 386 LM PER FT, TRIMLESS FLANGELESS SHEET ROCK EDGE, 85CRI, E.C. TO VERIFY DRIVER TYPE AND ALL PROVIDE ALL NECESSARY ACCESSORIES FOR CUSTOM LENGTH FIXTURES	PURE EDGE - TRULINE 1.6A
L29	3500K	LED	0-10V	277	42 W	8'4", LED ROPE LIGHT IN 1.5" EXTRUSION, 386 LM PER FT, TRIMLESS FLANGELESS SHEET ROCK EDGE, 85CRI, E.C. TO VERIFY DRIVER TYPE AND ALL PROVIDE ALL NECESSARY ACCESSORIES FOR CUSTOM LENGTH FIXTURES	PURE EDGE - TRULINE 1.6A
L31	3500K	LED	0-10V	277	26 W	5' 7", LED ROPE LIGHT IN 1.5" EXTRUSION, 386 LM PER FT, TRIMLESS FLANGELESS SHEET ROCK EDGE, 85CRI, E.C. TO VERIFY DRIVER TYPE AND ALL PROVIDE ALL NECESSARY ACCESSORIES FOR CUSTOM LENGTH FIXTURES	PURE EDGE - TRULINE 1.6A
L32	3500K	LED	0-10V	277	58 W	11' 5", LED ROPE LIGHT IN 1.5" EXTRUSION, 386 LM PER FT, TRIMLESS FLANGELESS SHEET ROCK EDGE, 85CRI, E.C. TO VERIFY DRIVER TYPE AND ALL PROVIDE ALL NECESSARY ACCESSORIES FOR CUSTOM LENGTH FIXTURES	PURE EDGE - TRULINE 1.6A
L33	3500K	LED	0-10V	277	47 W	9' 5", LED ROPE LIGHT IN 1.5" EXTRUSION, 386 LM PER FT, TRIMLESS FLANGELESS SHEET ROCK EDGE, 85CRI, E.C. TO VERIFY DRIVER TYPE AND ALL PROVIDE ALL NECESSARY ACCESSORIES FOR CUSTOM LENGTH FIXTURES	PURE EDGE - TRULINE 1.6A
P1	3500K	LED	0-10V	277	37 W	8", PENDANT, CABLE, 4601LM	GLIGHTING - SIDNEY
P2	3500K	LED	0-10V	120	37 W	6.75", PENDANT, CABLE, 1200LM, AMBER	NICHE - AXIA
S1	3500K	LED	STANDARD	277	38 W	4' STAIR LIGHTER STRIP, INTEGRATED OCCUPANCY SENSOR, 4015LM	METALUX - SWLED
T		LED	TBD	TBD	20 W	TBD	TBD
U1	3500K	LED	NA	120	50 W	4', UNDERCABINET LIGHT, EDC-1	FAIL-SAFE - UCL
U2	3500K	LED	NA	120	26 W	3', UNDERCABINET LIGHT, EDC-1	FAIL-SAFE - UCL
U3	3500K	LED	NA	120	18 W	2', UNDERCABINET LIGHT, EDC-1	FAIL-SAFE - UCL
W2	4000K	LED	STANDARD	277	38 W	WALL PACK, TRAPEZOID,3168LM	LUMARK-XTOR
X1	NA	LED	NA	277	5 W	EXIT SIGN, EDGELIT, SELF DIAGNOSTIC, RED LETTERS, WHITE, EMERGENCY	SURE LITES - EUX

LIGHTING ZONE SCHEDULE

ZONE	EMERGENCY EGRESS	OCCUPANCY SENSOR	SWITCH TYPE	MOTORIZED SHADING
SOUTH STAIRS	YES	INTEGRATED OCC SENSOR	NA	NA
ZONE 1	YES	CEILING	NA	NA
ZONE 2	YES	SWITCH	DIMMER/ OS	NA
ZONE 3	YES	SWITCH	DIMMER/ OS	NA
ZONE 4	YES	NA	MANUAL	NA
ZONE 5	YES	NA	MANUAL	NA
ZONE 6	YES	NA	MANUAL	NA
ZONE 7	NO	CEILING	MANUAL	NA
ZONE 8	YES	CEILING	NA	NA
ZONE 9	YES	CEILING	NA	NA
ZONE 10	YES	CEILING	TS	NA
ZONE 11	NO	SWITCH	OS	NA
ZONE 12	YES	SWITCH	OS	NA
ZONE 13	YES	SWITCH	DIMMER/ OS	NA
ZONE 14	YES	NA	MANUAL	NA
ZONE 15	YES	SWITCH	OS	NA
ZONE 16	NO	SWITCH	DIMMER/ OS	NA
ZONE 18	NO	SWITCH	DIMMER/ OS	NA
ZONE 19	NO	SWITCH	OS	NA
ZONE 20	YES	SWITCH	DIMMER/ OS	NA
ZONE 21	YES	NO	MANUAL	NA
ZONE 22	YES	CEILING	TS	NA
ZONE 23	YES	CEILING	NA	NA
ZONE 25	NO	SWITCH	DIMMER/ OS	NA
ZONE 26	NO	CEILING	DIMMER	NA
ZONE 27	YES	INTEGRATED OCC SENSOR	NA	NA
ZONE 28	YES	CEILING	NA	NA



PLAN NORTH

TRUE NORTH

1 LIGHTING ZONE PLAN BASEMENT LEVEL SECTOR 02
1/8" = 1'-0"

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CLIENT:

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TAHLEQUAH, OKLAHOMA

KEY PLAN:

02 01

PROJECT PHASE:
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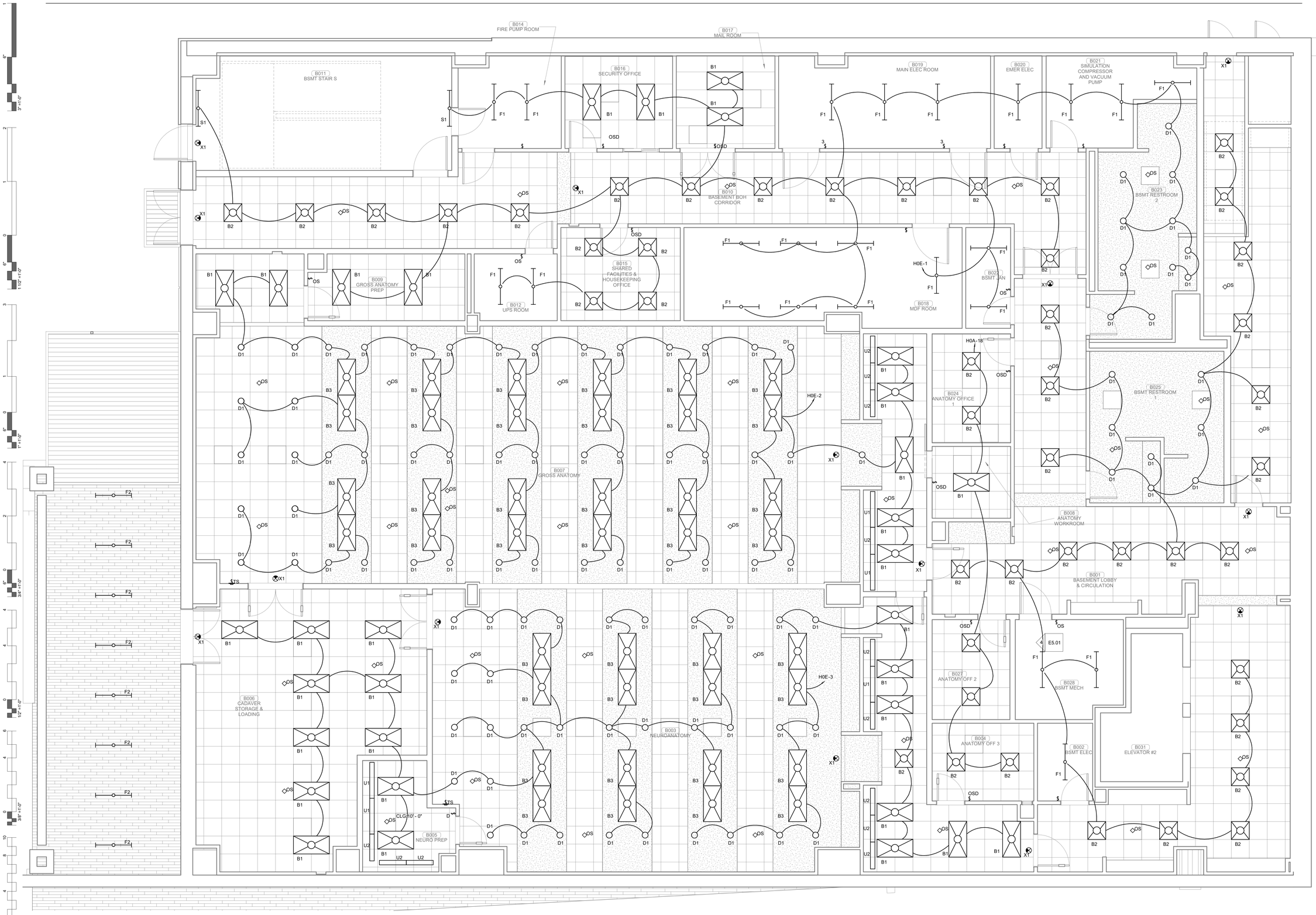
REVISIONS

#	DATE	DESCRIPTION

DATE: 07-26-19
JOB NUMBER: 17-13
SHEET NUMBER: E2.01

LIGHTING ZONE PLAN - BASEMENT LEVEL



PLAN NORTH

TRUE NORTH

1 LIGHTING PLAN - BASEMENT

1/4" = 1'-0"

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KEY PLAN:

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DATE:	JOB NUMBER:
07-26-19	17-13

SHEET NUMBER:

E2.02

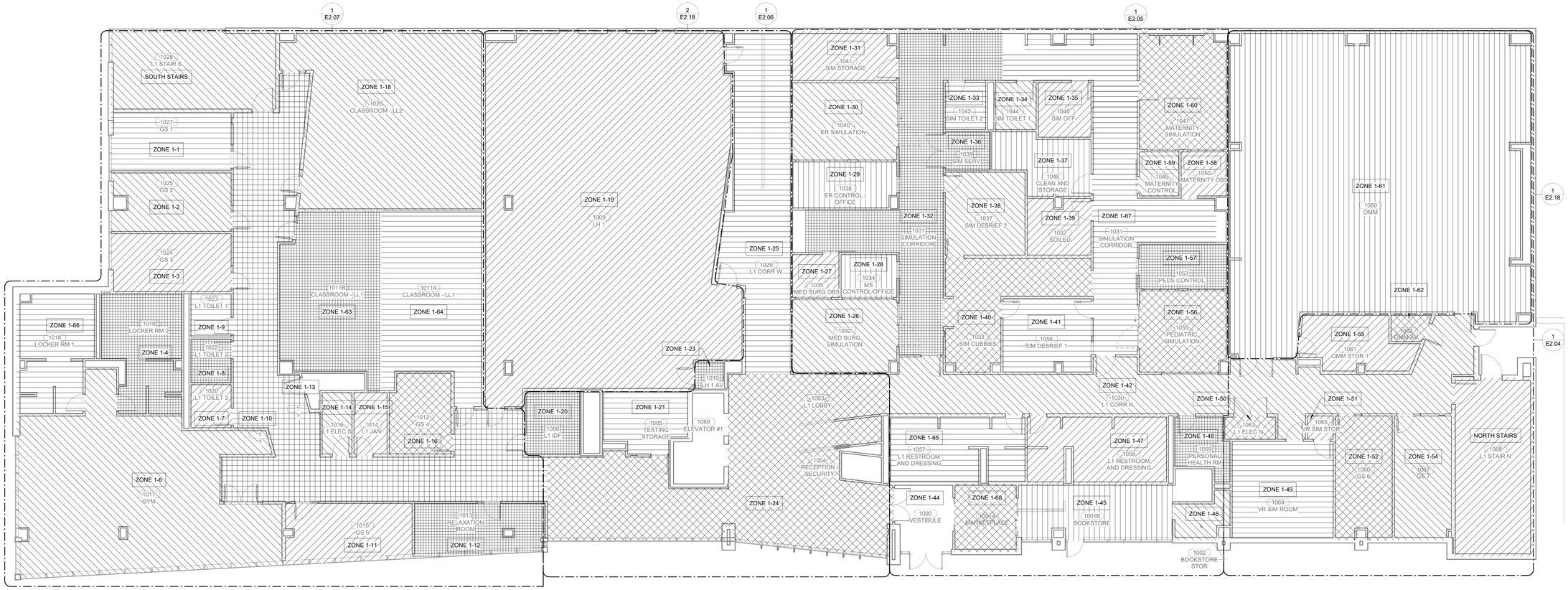
LIGHTING PLAN BASEMENT LEVEL SECTOR 02

LIGHTING ZONE SCHEDULE

ZONE	EMERGENCY EGRESS	OCCUPANCY SENSOR	SWITCH TYPE	MOTORIZED SHADING
NORTH STAIRS	YES	INTEGRATED OCC SENSOR	NA	NA
SOUTH STAIRS	YES	INTEGRATED OCC SENSOR	NA	NA
ZONE 1-1	YES	CEILING	NA	NA
ZONE 1-2	YES	CEILING	NA	NA
ZONE 1-3	YES	CEILING	NA	NA
ZONE 1-4	YES	CEILING	NA	NA
ZONE 1-6	YES	CEILING	NA	NA
ZONE 1-7	YES	SWITCH	OS	NA
ZONE 1-8	YES	SWITCH	OS	NA
ZONE 1-9	YES	SWITCH	OS	NA
ZONE 1-10	YES	CEILING	NA	NA
ZONE 1-11	YES	CEILING	NA	NA
ZONE 1-12	NO	CEILING	DIMMER	NA
ZONE 1-13	NO	SWITCH	OS	NA
ZONE 1-14	YES	NA	MANUAL	NA
ZONE 1-15	NO	SWITCH	OS	NA
ZONE 1-16	YES	CEILING	NA	NA
ZONE 1-18	YES	CEILING	PB	YES
ZONE 1-19	YES	CEILING	TS	YES
ZONE 1-20	NO	SWITCH	OS	NA
ZONE 1-21	NO	SWITCH	OS	NA
ZONE 1-23	NO	SWITCH	OS	NA
ZONE 1-24	YES	CEILING	NA	NA
ZONE 1-25	YES	CEILING	NA	NA
ZONE 1-26	YES	NA	DIMMER	NA
ZONE 1-27	NO	SWITCH	DIMMER/ OS	NA
ZONE 1-28	NO	SWITCH	DIMMER/ OS	NA
ZONE 1-29	NO	CEILING	DIMMER	NA
ZONE 1-30	YES	NA	DIMMER	NA
ZONE 1-31	NO	SWITCH	OS	NA
ZONE 1-32	YES	CEILING	NA	NA

LIGHTING ZONE SCHEDULE

ZONE	EMERGENCY EGRESS	OCCUPANCY SENSOR	SWITCH TYPE	MOTORIZED SHADING
ZONE 1-33	YES	SWITCH	OS	NA
ZONE 1-34	YES	SWITCH	OS	NA
ZONE 1-35	NO	SWITCH	DIMMER/ OS	NA
ZONE 1-36	NO	SWITCH	OS	NA
ZONE 1-37	NO	SWITCH	OS	NA
ZONE 1-38	NO	CEILING	DIMMER	NA
ZONE 1-39	NO	SWITCH	OS	NA
ZONE 1-40	YES	CEILING	NA	NA
ZONE 1-41	NO	CEILING	DIMMER	NA
ZONE 1-42	YES	CEILING	NA	NA
ZONE 1-44	YES	CEILING	NA	NA
ZONE 1-45	YES	CEILING	NA	NA
ZONE 1-46	NO	SWITCH	OS	NA
ZONE 1-47	YES	CEILING	NA	NA
ZONE 1-48	YES	CEILING	DIMMER	NA
ZONE 1-49	NO	CEILING	PB	NA
ZONE 1-50	YES	NA	MANUAL	NA
ZONE 1-51	NO	SWITCH	OS	NA
ZONE 1-52	YES	CEILING	NA	NA
ZONE 1-54	YES	CEILING	NA	NA
ZONE 1-55	NO	SWITCH	OS	NA
ZONE 1-56	YES	NA	DIMMER	NA
ZONE 1-57	NO	SWITCH	DIMMER/ OS	NA
ZONE 1-58	NO	SWITCH	DIMMER/ OS	NA
ZONE 1-59	NO	SWITCH	DIMMER/ OS	NA
ZONE 1-60	YES	NA	DIMMER	NA
ZONE 1-61	YES	CEILING	TS	YES
ZONE 1-62	NO	SWITCH	OS	NA
ZONE 1-63	YES	CEILING	PB	NA
ZONE 1-64	YES	CEILING	PB	NA
ZONE 1-65	YES	CEILING	NA	NA
ZONE 1-66	YES	CEILING	NA	NA
ZONE 1-67	YES	CEILING	NA	NA
ZONE 1-68	YES	CEILING	NA	NA



PLAN NORTH

TRUE NORTH

1 LIGHTING ZONE PLAN - LEVEL 01
1/8" = 1'-0"

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CLIENT:

COLLEGE OF Osteopathic Medicine AT THE CHEROKEE NATION

TAHLEQUAH, OKLAHOMA

KEY PLAN:

02 01

PROJECT PHASE:

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REVISIONS:

#	DATE	DESCRIPTION

DATE: 07-26-19

JOB NUMBER: 17-13

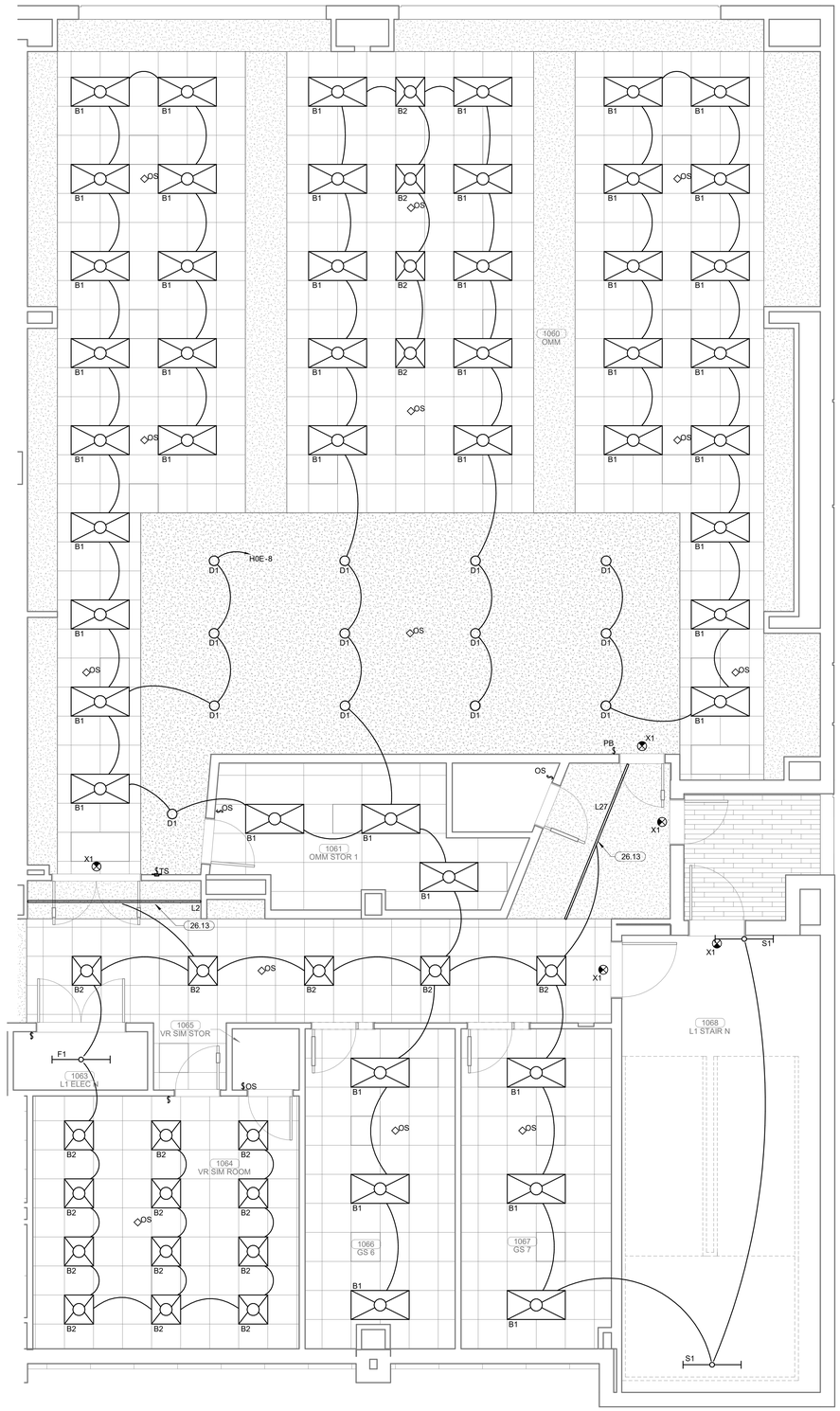
SHEET NUMBER:

E2.03

LIGHTING ZONE PLAN - LEVEL 1

KEYNOTES

26.13 ELECTRICAL CONTRACTOR TO COORDINATE LOCATION AND FRAMING WITH



PLAN NORTH

TRUE NORTH

1 ENLARGED LIGHTING PLAN LEVEL 01 SECTOR 01

1/4" = 1'-0"

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TAHLEQUAH, OKLAHOMA

KEY PLAN:

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#	DATE	DESCRIPTION

DATE: 07-26-19

JOB NUMBER: 17-13

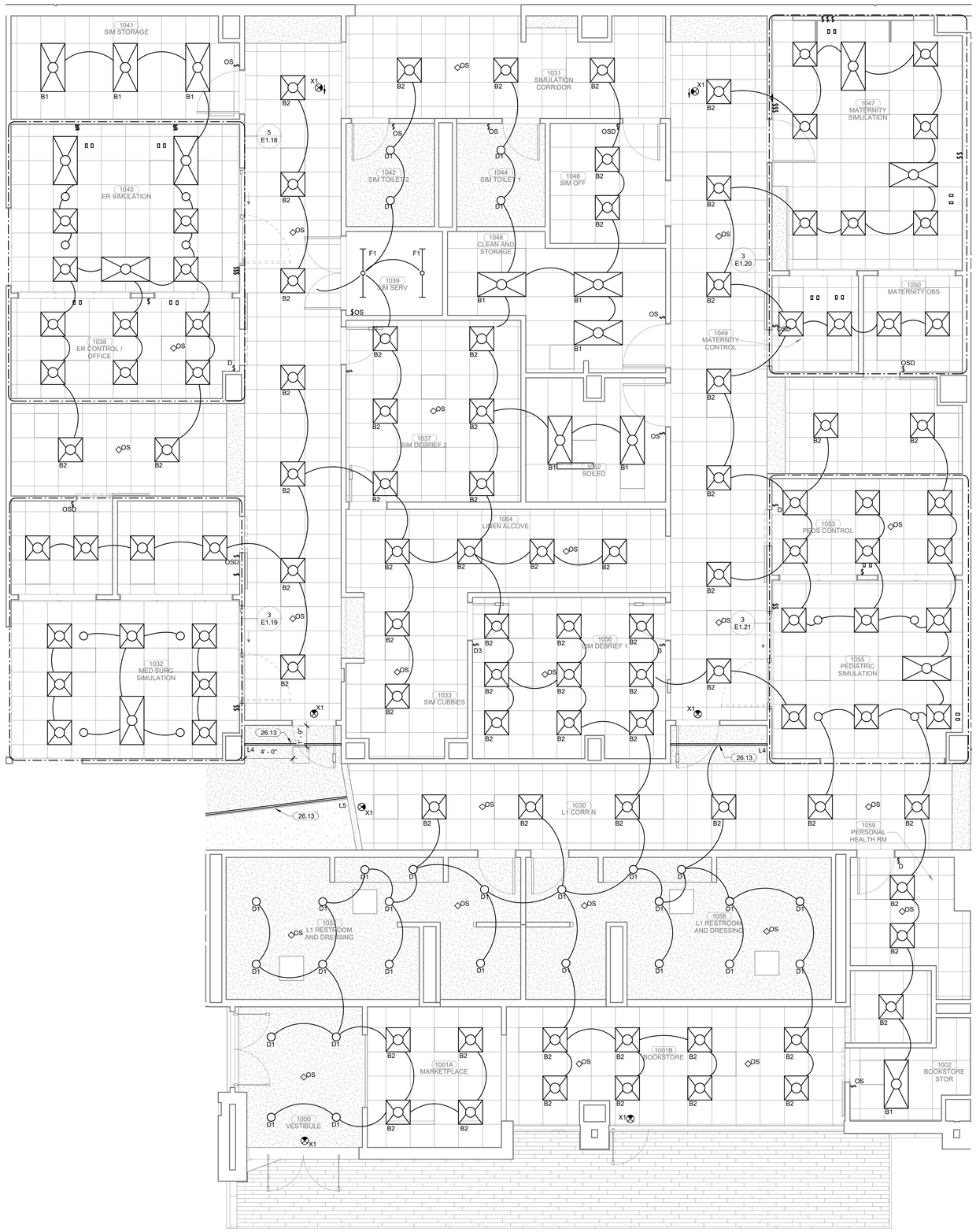
SHEET NUMBER:

E2.04

ENLARGED LIGHTING PLAN LEVEL 01 SECTOR 01

KEYNOTES

26.13 ELECTRICAL CONTRACTOR TO COORDINATE LOCATION AND FRAMING WITH



PLAN NORTH

TRUE NORTH

1 ENLARGED LIGHTING PLAN LEVEL 01 SECTOR 01

1/4" = 1'-0"

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KEY PLAN:

02 01

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#	DATE	DESCRIPTION

DATE:	JOB NUMBER:
07-26-19	17-13

SHEET NUMBER:

E2.05

ENLARGED LIGHTING PLAN LEVEL 01 SECTOR 01

KEYNOTES

26.13	ELECTRICAL CONTRACTOR TO COORDINATE LOCATION AND FRAMING WITH
26.15	LIGHT FIXTURE TO BE MOUNTED IN A CONTINOUS RUN. IN THIS AREA, LIGHT FIXTURE WILL RUN VERTICAL FROM 13'2" SOFIT TO 13' 6" SOFIT. AFTER VERITCIAL RUN LIGHT FIXTURE WILL CONTINUE TO RUN HORIZONTAL AT 13' 6" SOFIT. COORDINATE MOUNTING AND EXACT LOCATION OF VERITCAL CONTIOUS RUN WITH ARCHITECT AND FRAMERS PRIOR TO ROUGH-IN.

PLAN NORTH

TRUE NORTH

1 ENLARGED LIGHTING PLAN LEVEL 01 SECTOR 02
1/4" = 1'-0"

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KEY PLAN:

02 01

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#	DATE	DESCRIPTION

DATE:	JOB NUMBER:
07-26-19	17-13

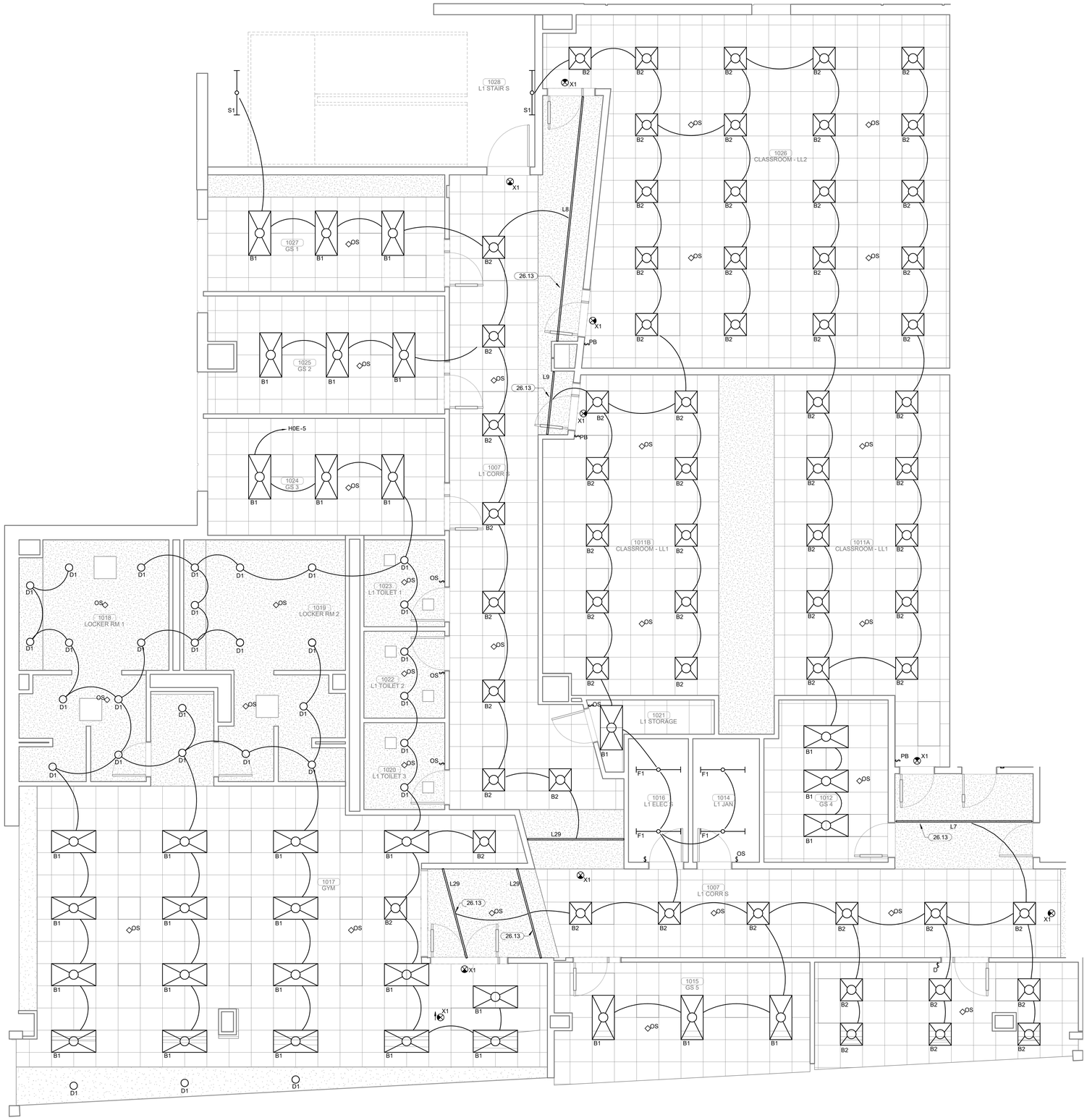
SHEET NUMBER:

E2.06

ENLARGED LIGHTING PLAN LEVEL 01 SECTOR 02

KEYNOTES

26.13 ELECTRICAL CONTRACTOR TO COORDINATE LOCATION AND FRAMING WITH



PLAN NORTH

TRUE NORTH

1 ENLARGED LIGHTING PLAN LEVEL 01 SECTOR 02

1/4" = 1'-0"

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KEY PLAN:

02 01

PROJECT PHASE:

95% CONSTRUCTION DOCUMENTS

REVISIONS		
#	DATE	DESCRIPTION

DATE: 07-26-19

JOB NUMBER: 17-13

SHEET NUMBER: E2.07

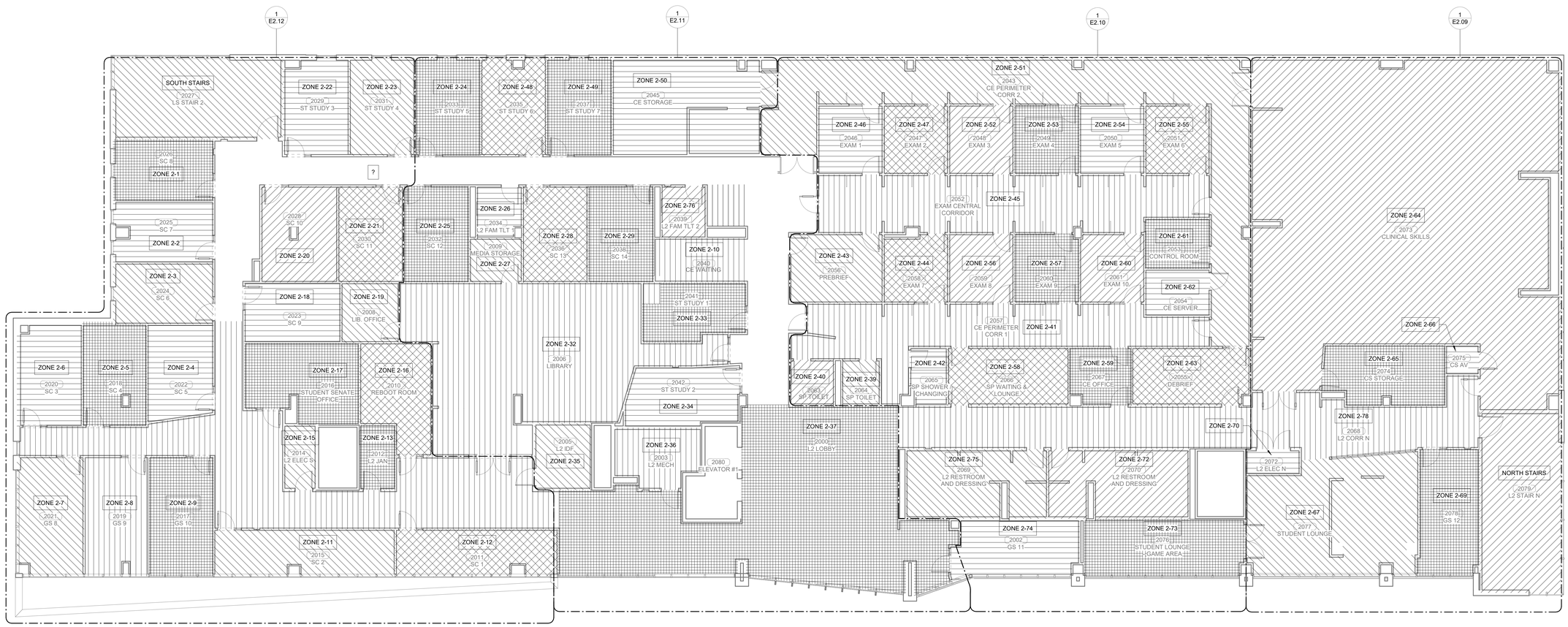
ENLARGED LIGHTING PLAN LEVEL 01 SECTOR 02

LIGHTING ZONE SCHEDULE

wtwt	EMERGENCY EGRESS	OCCUPANCY SENSOR	SWITCH TYPE	MOTORIZED SHADING
NORTH STAIRS	YES	INTEGRATED OCC SENSOR	NA	NA
SOUTH STAIRS	YES	INTEGRATED OCC SENSOR	NA	NA
ZONE 2-1	YES	CEILING	MANUAL	NA
ZONE 2-2	YES	CEILING	MANUAL	NA
ZONE 2-3	YES	CEILING	MANUAL	NA
ZONE 2-4	YES	CEILING	MANUAL	NA
ZONE 2-5	YES	CEILING	MANUAL	NA
ZONE 2-6	YES	CEILING	MANUAL	NA
ZONE 2-7	YES	CEILING	NA	NA
ZONE 2-8	YES	CEILING	NA	NA
ZONE 2-9	YES	CEILING	NA	NA
ZONE 2-10	YES	CEILING	NA	NA
ZONE 2-11	YES	CEILING	MANUAL	NA
ZONE 2-12	YES	CEILING	MANUAL	NA
ZONE 2-13	NO	SWITCH	OS	NA
ZONE 2-15	YES	NA	MANUAL	NA
ZONE 2-16	NO	CEILING	DIMMER	NA
ZONE 2-17	YES	CEILING	DIMMER	NA
ZONE 2-18	YES	CEILING	MANUAL	NA
ZONE 2-19	NO	SWITCH	DIMMER/ OS	NA
ZONE 2-20	YES	CEILING	MANUAL	NA
ZONE 2-21	YES	CEILING	MANUAL	NA
ZONE 2-22	YES	CEILING	MANUAL	NA
ZONE 2-23	YES	CEILING	MANUAL	NA
ZONE 2-24	YES	CEILING	MANUAL	NA
ZONE 2-25	YES	CEILING	MANUAL	NA
ZONE 2-26	YES	SWITCH	OS	NA
ZONE 2-27	NO	SWITCH	OS	NA
ZONE 2-28	YES	CEILING	MANUAL	NA
ZONE 2-29	YES	CEILING	MANUAL	NA
ZONE 2-32	YES	CEILING	NA	NA
ZONE 2-33	YES	CEILING	MANUAL	NA
ZONE 2-34	YES	CEILING	MANUAL	NA
ZONE 2-35	NO	SWITCH	OS	NA
ZONE 2-36	NO	SWITCH	OS	NA
ZONE 2-37	YES	CEILING	NA	NA
ZONE 2-39	YES	SWITCH	OS	NA

LIGHTING ZONE SCHEDULE

wtwt	EMERGENCY EGRESS	OCCUPANCY SENSOR	SWITCH TYPE	MOTORIZED SHADING
ZONE 2-40	YES	SWITCH	OS	NA
ZONE 2-41	YES	CEILING	NA	NA
ZONE 2-42	YES	SWITCH	OS	NA
ZONE 2-43	YES	CEILING	DIMMER	NA
ZONE 2-44	YES	SWITCH	DIMMER/ OS	NA
ZONE 2-45	YES	CEILING	NA	NA
ZONE 2-46	YES	SWITCH	DIMMER/ OS	NA
ZONE 2-47	YES	SWITCH	DIMMER/ OS	NA
ZONE 2-48	YES	CEILING	MANUAL	NA
ZONE 2-49	YES	CEILING	MANUAL	NA
ZONE 2-50	NO	CEILING	NA	NA
ZONE 2-51	YES	CEILING	NA	NA
ZONE 2-52	YES	SWITCH	DIMMER/ OS	NA
ZONE 2-53	YES	SWITCH	DIMMER/ OS	NA
ZONE 2-54	YES	SWITCH	DIMMER/ OS	NA
ZONE 2-55	YES	SWITCH	DIMMER/ OS	NA
ZONE 2-56	YES	SWITCH	DIMMER/ OS	NA
ZONE 2-57	YES	SWITCH	DIMMER/ OS	NA
ZONE 2-58	YES	CEILING	DIMMER	NA
ZONE 2-59	NO	CEILING	DIMMER	NA
ZONE 2-60	YES	SWITCH	DIMMER/ OS	NA
ZONE 2-61	NO	SWITCH	DIMMER/ OS	NA
ZONE 2-62	NO	SWITCH	OS	NA
ZONE 2-63	YES	CEILING	DIMMER	NA
ZONE 2-64	YES	CEILING	TS	YES
ZONE 2-65	NO	SWITCH	OS	NA
ZONE 2-66	NO	SWITCH	OS	NA
ZONE 2-67	YES	CEILING	N	NA
ZONE 2-69	YES	CEILING	MANUAL	NA
ZONE 2-70	YES	NA	MANUAL	NA
ZONE 2-72	YES	CEILING	NA	NA
ZONE 2-73	YES	CEILING	DIMMER	NA
ZONE 2-74	YES	CEILING	MANUAL	NA
ZONE 2-75	YES	CEILING	NA	NA
ZONE 2-76	YES	SWITCH	OS	NA
ZONE 2-78	YES	CEILING	NA	NA



PLAN NORTH

TRUE NORTH

1 LIGHTING ZONE PLAN - LEVEL 02

1/8" = 1'-0"

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CLIENT:

COLLEGE OF Osteopathic Medicine AT THE CHEROKEE NATION

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KEY PLAN:

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PROJECT PHASE:

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REVISIONS

#	DATE	DESCRIPTION

DATE: 07-26-19

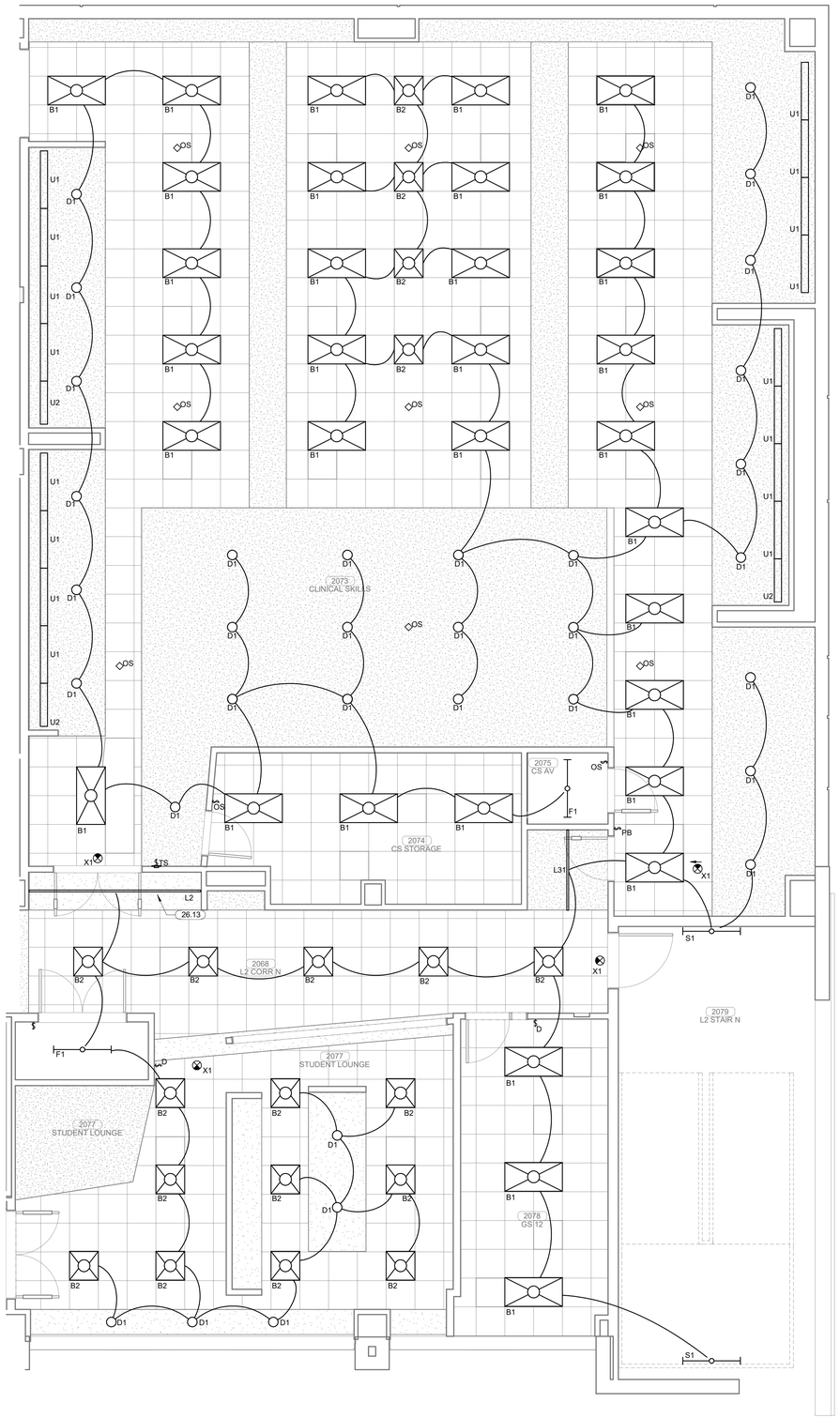
JOB NUMBER: 17-13

SHEET NUMBER: E2.08

LIGHTING ZONE PLAN - LEVEL 2

KEYNOTES

26.13 ELECTRICAL CONTRACTOR TO COORDINATE LOCATION AND FRAMING WITH



PLAN NORTH

TRUE NORTH

1 ENLARGED LIGHTING PLAN LEVEL 02 SECTOR 01

1/4" = 1'-0"

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DATE:	JOB NUMBER:
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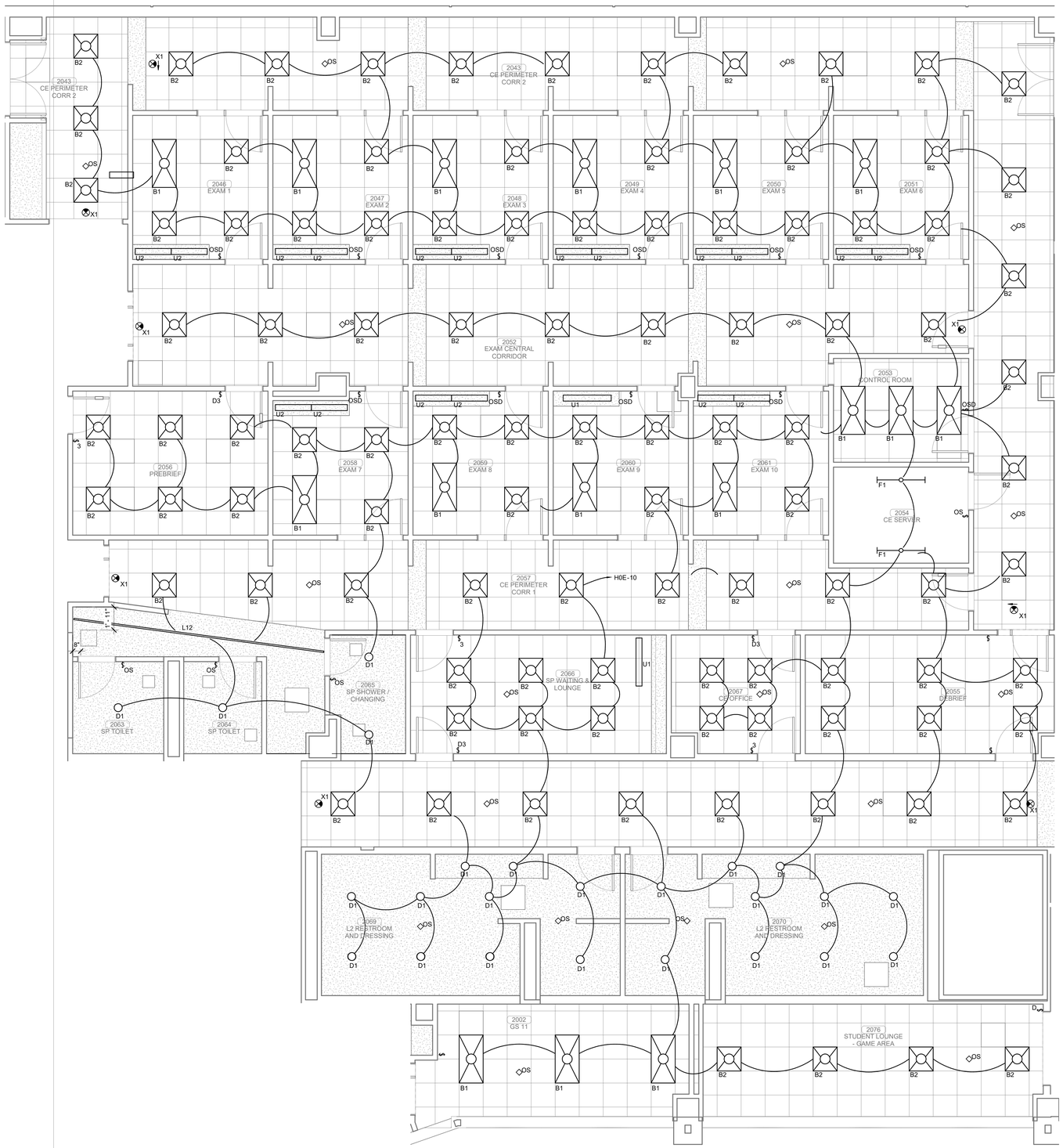
ENLARGED LIGHTING PLAN LEVEL 02 SECTOR 01



PLAN NORTH

TRUE NORTH

1 ENLARGED LIGHTING PLAN LEVEL 02 SECTOR 01

1/4" = 1'-0"

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ENLARGED LIGHTING PLAN LEVEL 02 SECTOR 01

KEYNOTES

26.13 ELECTRICAL CONTRACTOR TO COORDINATE LOCATION AND FRAMING WITH

PLAN NORTH

TRUE NORTH

1 ENLARGED LIGHTING PLAN LEVEL 02 SECTOR 02

1/4" = 1'-0"

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KEY PLAN:

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PROJECT PHASE:

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#	DATE	DESCRIPTION

DATE:	JOB NUMBER:
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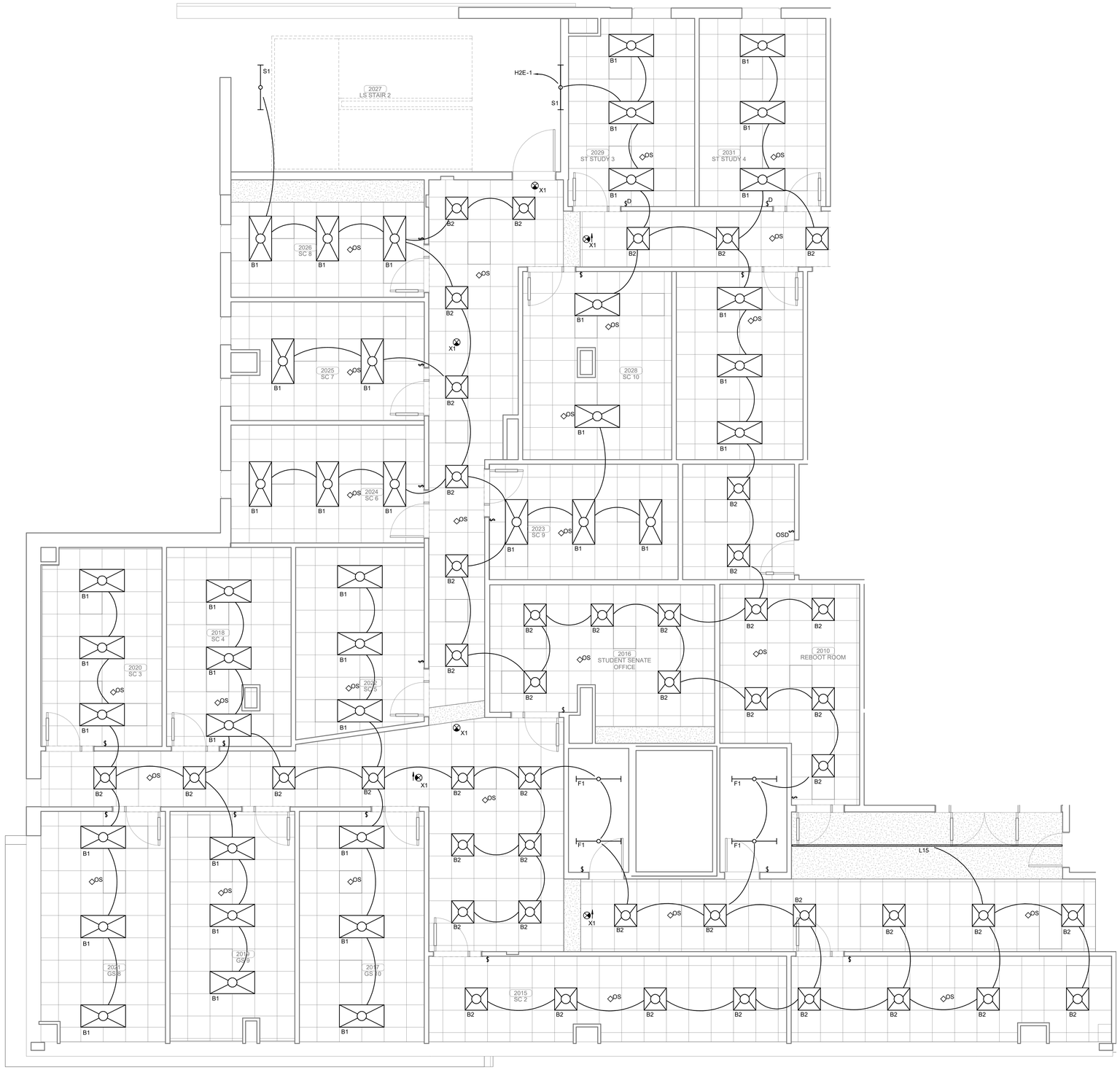
SHEET NUMBER:

E2.11

ENLARGED LIGHTING PLAN LEVEL 02 SECTOR 02



PLAN NORTH

TRUE NORTH

1 ENLARGED LIGHTING PLAN LEVEL 02 SECTOR 02

1/4" = 1'-0"

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DATE:	JOB NUMBER:
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ENLARGED LIGHTING PLAN LEVEL 02 SECTOR 02

LIGHTING ZONE SCHEDULE

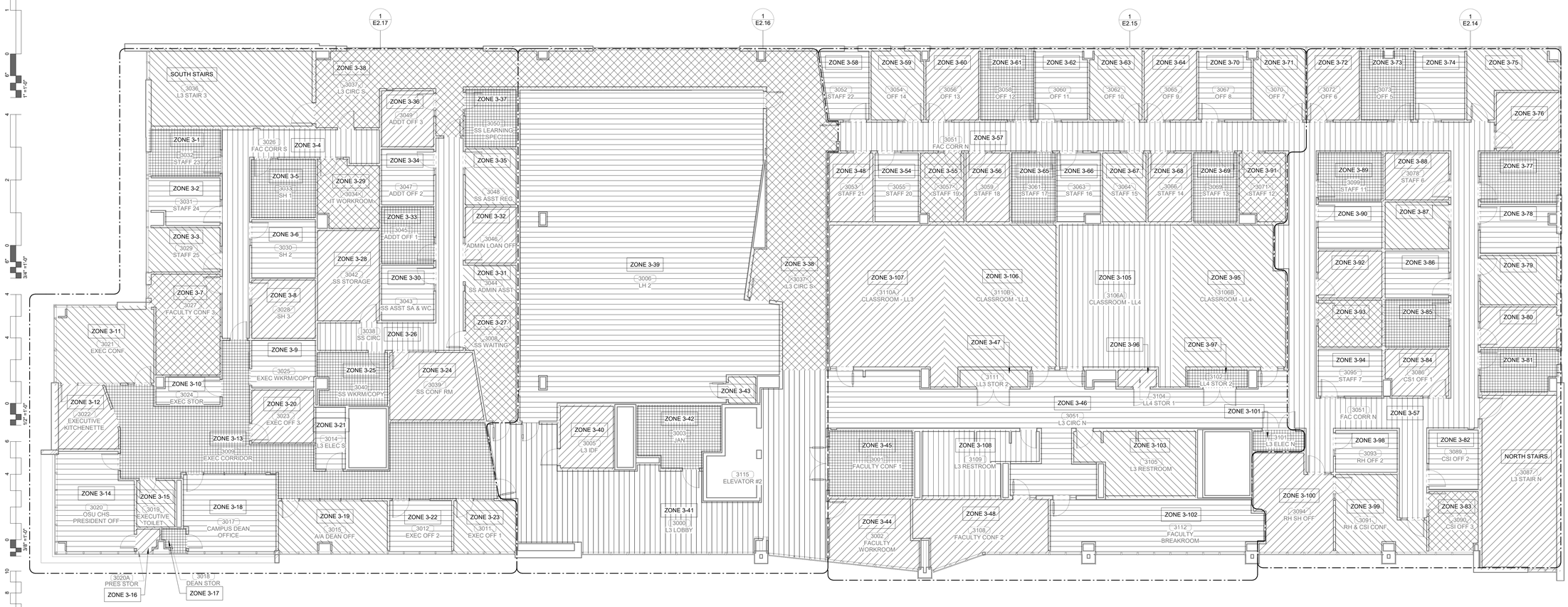
WTWTWT	EMERGENCY EGRESS	OCCUPANCY SENSOR	SWITCH TYPE	MOTORIZED SHADING
NORTH STAIRS	YES	INTEGRATED OCC SENSOR	NA	NA
SOUTH STAIRS	YES	INTEGRATED OCC SENSOR	NA	NA
ZONE 3-1	NO	SWITCH	DIMMER/ OS	NA
ZONE 3-2	NO	SWITCH	DIMMER/ OS	NA
ZONE 3-3	NO	SWITCH	DIMMER/ OS	NA
ZONE 3-4	YES	CEILING	NA	NA
ZONE 3-5	NO	SWITCH	DIMMER/ OS	NA
ZONE 3-6	NO	SWITCH	DIMMER/ OS	NA
ZONE 3-7	YES	CEILING	PB	NA
ZONE 3-8	NO	SWITCH	DIMMER/ OS	NA
ZONE 3-9	NO	SWITCH	OS	NA
ZONE 3-10	NO	SWITCH	OS	NA
ZONE 3-11	YES	CEILING	PB	NA
ZONE 3-12	YES	CEILING	NA	NA
ZONE 3-13	YES	CEILING	NA	NA
ZONE 3-14	NO	CEILING	DIMMER	NA
ZONE 3-15	YES	SWITCH	OS	NA
ZONE 3-16	NO	SWITCH	OS	NA
ZONE 3-17	NO	SWITCH	NA	NA
ZONE 3-18	NO	CEILING	DIMMER	NA
ZONE 3-19	NO	CEILING	DIMMER	NA
ZONE 3-20	NO	SWITCH	DIMMER/ OS	NA
ZONE 3-21	YES	SWITCH	MANUAL	NA
ZONE 3-22	NO	SWITCH	DIMMER	NA
ZONE 3-23	NO	SWITCH	DIMMER	NA
ZONE 3-24	YES	CEILING	DIMMER	NA
ZONE 3-25	NO	SWITCH	DIMMER/ OS	NA
ZONE 3-26	YES	CEILING	NA	NA
ZONE 3-27	YES	CEILING	NA	NA
ZONE 3-28	NO	SWITCH	OS	NA
ZONE 3-29	NO	CEILING	DIMMER	NA
ZONE 3-30	NO	SWITCH	DIMMER/ OS	NA
ZONE 3-31	NO	SWITCH	OS	NA
ZONE 3-32	NO	SWITCH	DIMMER/ OS	NA
ZONE 3-33	NO	SWITCH	DIMMER/ OS	NA

LIGHTING ZONE SCHEDULE

WTWTWT	EMERGENCY EGRESS	OCCUPANCY SENSOR	SWITCH TYPE	MOTORIZED SHADING
ZONE 3-34	NO	SWITCH	DIMMER/ OS	NA
ZONE 3-35	NO	SWITCH	DIMMER/ OS	NA
ZONE 3-36	NO	SWITCH	DIMMER/ OS	NA
ZONE 3-37	NO	SWITCH	DIMMER/ OS	NA
ZONE 3-38	YES	CEILING	NA	NA
ZONE 3-39	YES	CEILING	TS	NA
ZONE 3-40	NO	SWITCH	OS	NA
ZONE 3-41	YES	CEILING	NA	NA
ZONE 3-42	NO	SWITCH	OS	NA
ZONE 3-43	NO	SWITCH	OS	NA
ZONE 3-44	NO	CEILING	DIMMER	NA
ZONE 3-45	YES	CEILING	PB	NA
ZONE 3-46	YES	CEILING	NA	NA
ZONE 3-47	NO	SWITCH	OS	NA
ZONE 3-48	NO	SWITCH	DIMMER/ OS	NA
ZONE 3-54	NO	SWITCH	DIMMER/ OS	NA
ZONE 3-55	NO	SWITCH	DIMMER/ OS	NA
ZONE 3-56	NO	SWITCH	DIMMER/ OS	NA
ZONE 3-57	YES	CEILING	OS	NA
ZONE 3-58	NO	SWITCH	DIMMER/ OS	NA
ZONE 3-59	NO	SWITCH	DIMMER/ OS	NA
ZONE 3-60	NO	SWITCH	DIMMER/ OS	NA
ZONE 3-61	NO	SWITCH	DIMMER/ OS	NA
ZONE 3-62	NO	SWITCH	DIMMER/ OS	NA
ZONE 3-63	NO	SWITCH	DIMMER/ OS	NA
ZONE 3-64	NO	SWITCH	DIMMER/ OS	NA
ZONE 3-65	NO	SWITCH	DIMMER/ OS	NA
ZONE 3-66	NO	SWITCH	DIMMER/ OS	NA
ZONE 3-67	NO	SWITCH	DIMMER/ OS	NA
ZONE 3-68	NO	SWITCH	DIMMER/ OS	NA
ZONE 3-69	NO	SWITCH	DIMMER/ OS	NA
ZONE 3-70	NO	SWITCH	DIMMER/ OS	NA
ZONE 3-71	NO	SWITCH	DIMMER/ OS	NA
ZONE 3-72	NO	SWITCH	DIMMER/ OS	NA
ZONE 3-73	NO	SWITCH	DIMMER/ OS	NA
ZONE 3-74	NO	SWITCH	DIMMER/ OS	NA
ZONE 3-75	NO	CEILING	DIMMER	NA

LIGHTING ZONE SCHEDULE

WTWTWT	EMERGENCY EGRESS	OCCUPANCY SENSOR	SWITCH TYPE	MOTORIZED SHADING
ZONE 3-76	NO	SWITCH	DIMMER/ OS	NA
ZONE 3-77	NO	SWITCH	DIMMER/ OS	NA
ZONE 3-78	NO	SWITCH	DIMMER/ OS	NA
ZONE 3-79	NO	SWITCH	DIMMER/ OS	NA
ZONE 3-80	NO	SWITCH	DIMMER/ OS	NA
ZONE 3-81	NO	SWITCH	DIMMER/ OS	NA
ZONE 3-82	NO	SWITCH	DIMMER/ OS	NA
ZONE 3-83	NO	SWITCH	DIMMER/ OS	NA
ZONE 3-84	NO	SWITCH	DIMMER/ OS	NA
ZONE 3-85	NO	SWITCH	DIMMER/ OS	NA
ZONE 3-86	NO	SWITCH	DIMMER/ OS	NA
ZONE 3-87	NO	SWITCH	DIMMER/ OS	NA
ZONE 3-88	NO	SWITCH	DIMMER/ OS	NA
ZONE 3-89	NO	SWITCH	DIMMER/ OS	NA
ZONE 3-90	NO	SWITCH	DIMMER/ OS	NA
ZONE 3-91	NO	SWITCH	DIMMER/ OS	NA
ZONE 3-92	NO	SWITCH	DIMMER/ OS	NA
ZONE 3-93	NO	SWITCH	DIMMER/ OS	NA
ZONE 3-94	NO	SWITCH	DIMMER/ OS	NA
ZONE 3-95	YES	CEILING	PB	NA
ZONE 3-96	NO	SWITCH	OS	NA
ZONE 3-97	NO	SWITCH	OS	NA
ZONE 3-98	NO	SWITCH	DIMMER/ OS	NA
ZONE 3-99	YES	CEILING	PB	NA
ZONE 3-100	NO	CEILING	DIMMER	NA
ZONE 3-101	YES	NA	MANUAL	NA
ZONE 3-102	YES	CEILING	NA	NA
ZONE 3-103	YES	CEILING	NA	NA
ZONE 3-105	YES	CEILING	PB	NA
ZONE 3-106	YES	CEILING	PB	NA
ZONE 3-107	YES	CEILING	PB	NA
ZONE 3-108	YES	CEILING	NA	NA



PLAN NORTH

TRUE NORTH

1 LIGHTING ZONE PLAN - LEVEL 03

1/8" = 1'-0"

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KEY PLAN:

02 01

PROJECT PHASE:

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REVISIONS

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DATE: 07-26-19

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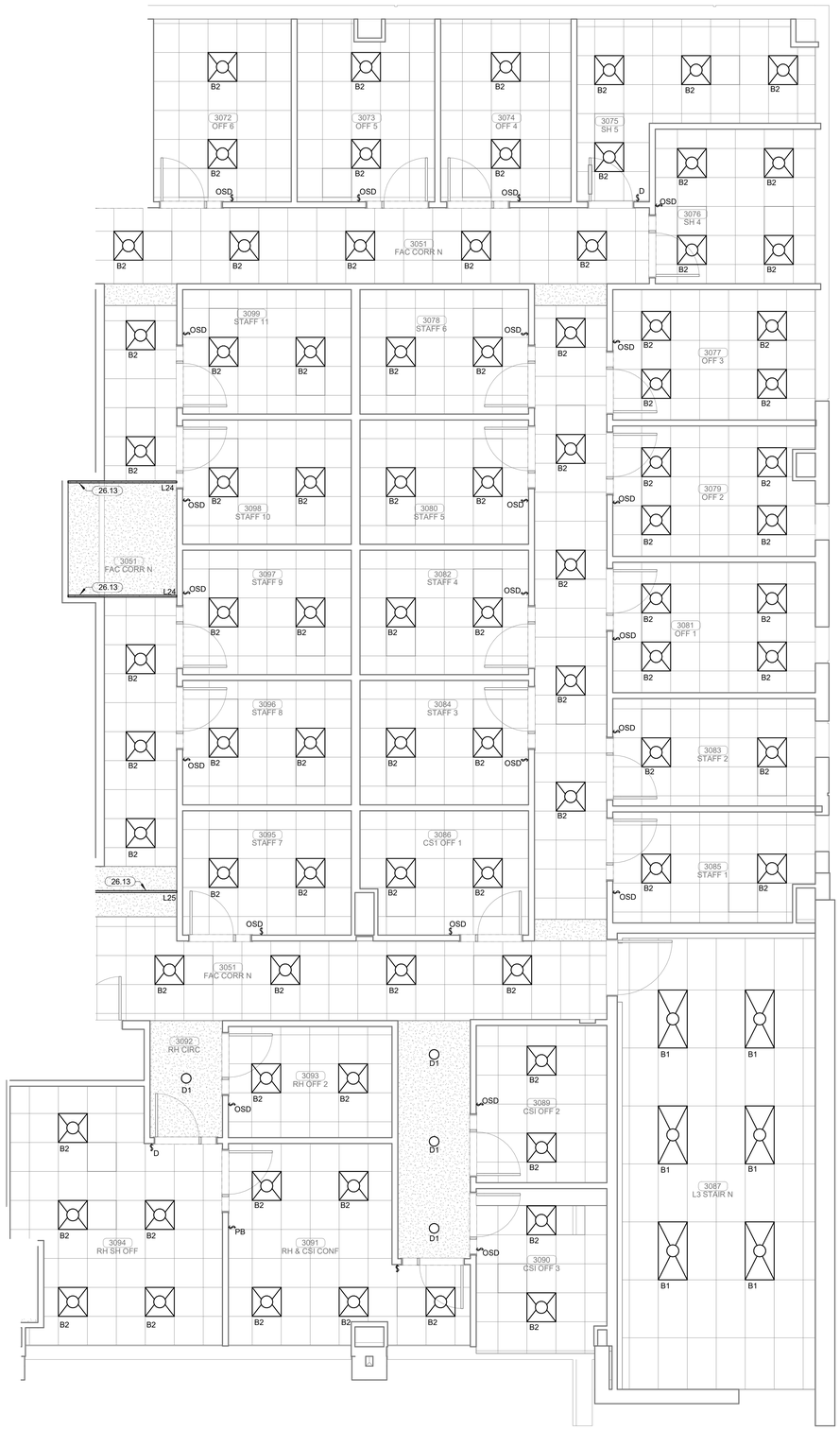
SHEET NUMBER: E2.13

LIGHTING ZONE PLAN - LEVEL 3

KEYNOTES

26.13 ELECTRICAL CONTRACTOR TO COORDINATE LOCATION AND FRAMING WITH



PLAN NORTH

TRUE NORTH

1 ENLARGED LIGHTING PLAN LEVEL 03 SECTOR 01

1/4" = 1'-0"

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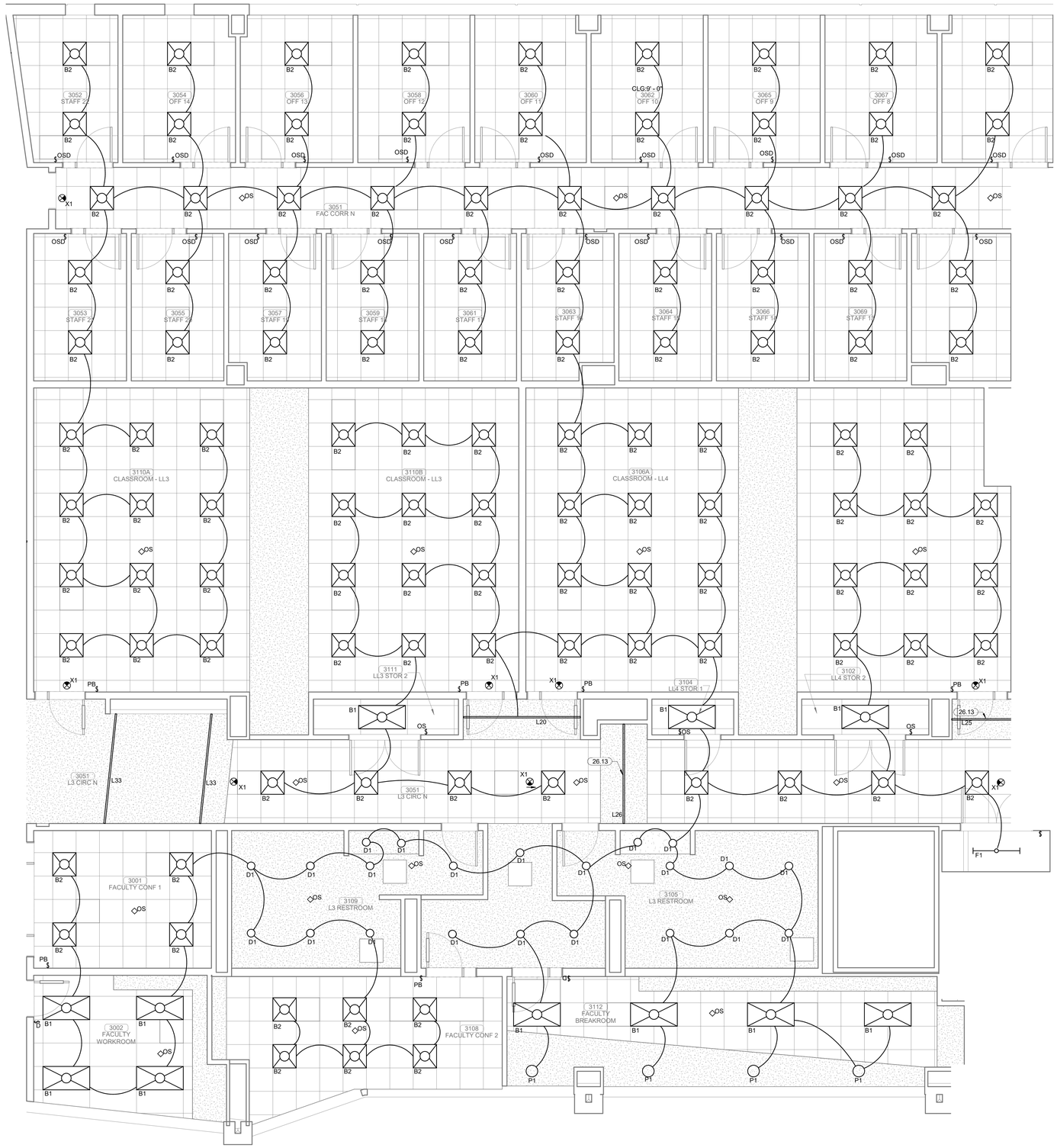
ENLARGED LIGHTING PLAN LEVEL 03 SECTOR 01

KEYNOTES

26.13 ELECTRICAL CONTRACTOR TO COORDINATE LOCATION AND FRAMING WITH



PLAN NORTH

TRUE NORTH

1 ENLARGED LIGHTING PLAN LEVEL 03 SECTOR 01

1/4" = 1'-0"

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E2.15

ENLARGED LIGHTING PLAN LEVEL 03 SECTOR 01

KEYNOTES

26.13 ELECTRICAL CONTRACTOR TO COORDINATE LOCATION AND FRAMING WITH

PLAN NORTH

TRUE NORTH

1 ENLARGED LIGHTING PLAN LEVEL 03 SECTOR 02

1/4" = 1'-0"

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KEY PLAN:

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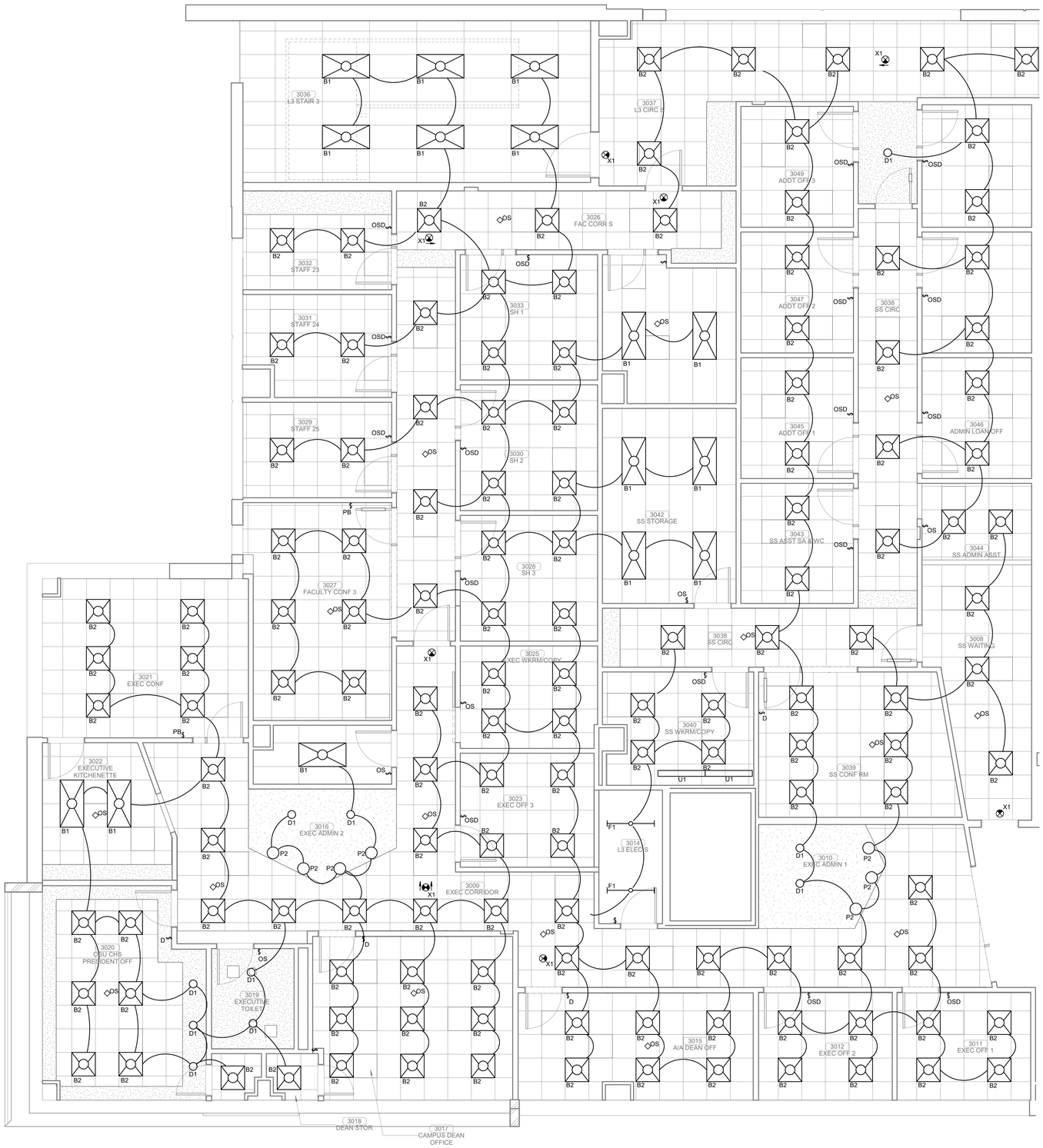
ENLARGED LIGHTING PLAN LEVEL 03 SECTOR 02



PLAN NORTH

TRUE NORTH

1 ENLARGED LIGHTING PLAN LEVEL 03 SECTOR 02

1/4" = 1'-0"

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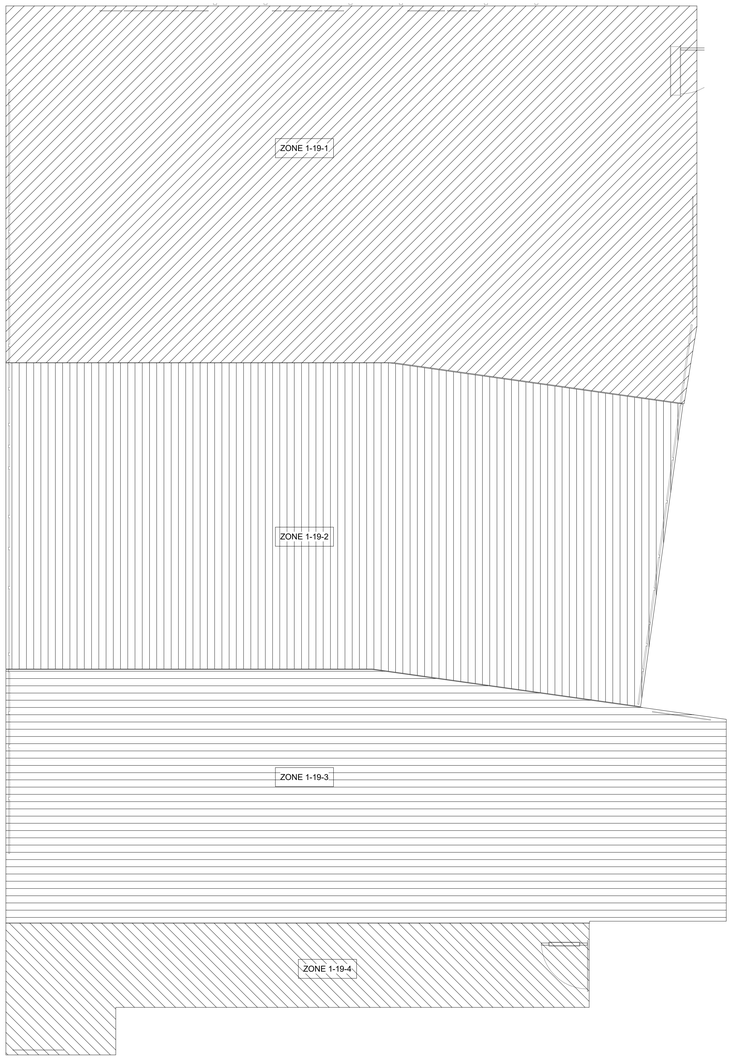
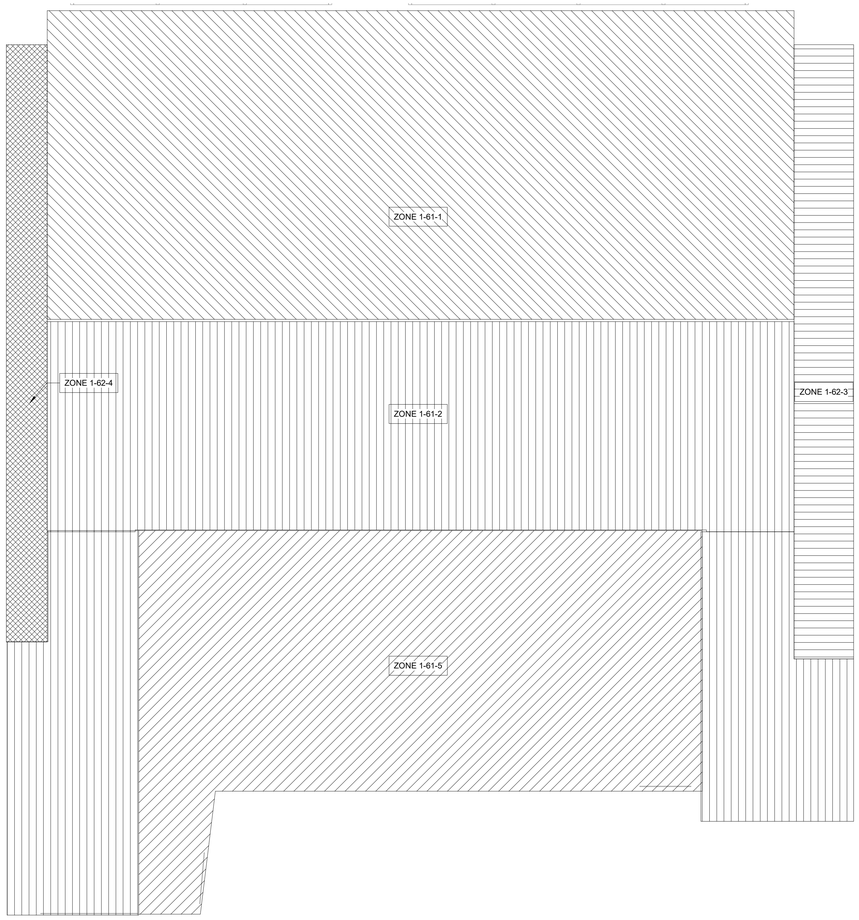
ENLARGED LIGHTING PLAN LEVEL 03 SECTOR 02



2 ENLARGED LECTURE HALL'S LIGHTING ZONE PLAN
1/4" = 1'-0"



1 ENLARGED OMM & CLINICAL SKILLS LAB LIGHTING ZONE PLAN
1/4" = 1'-0"

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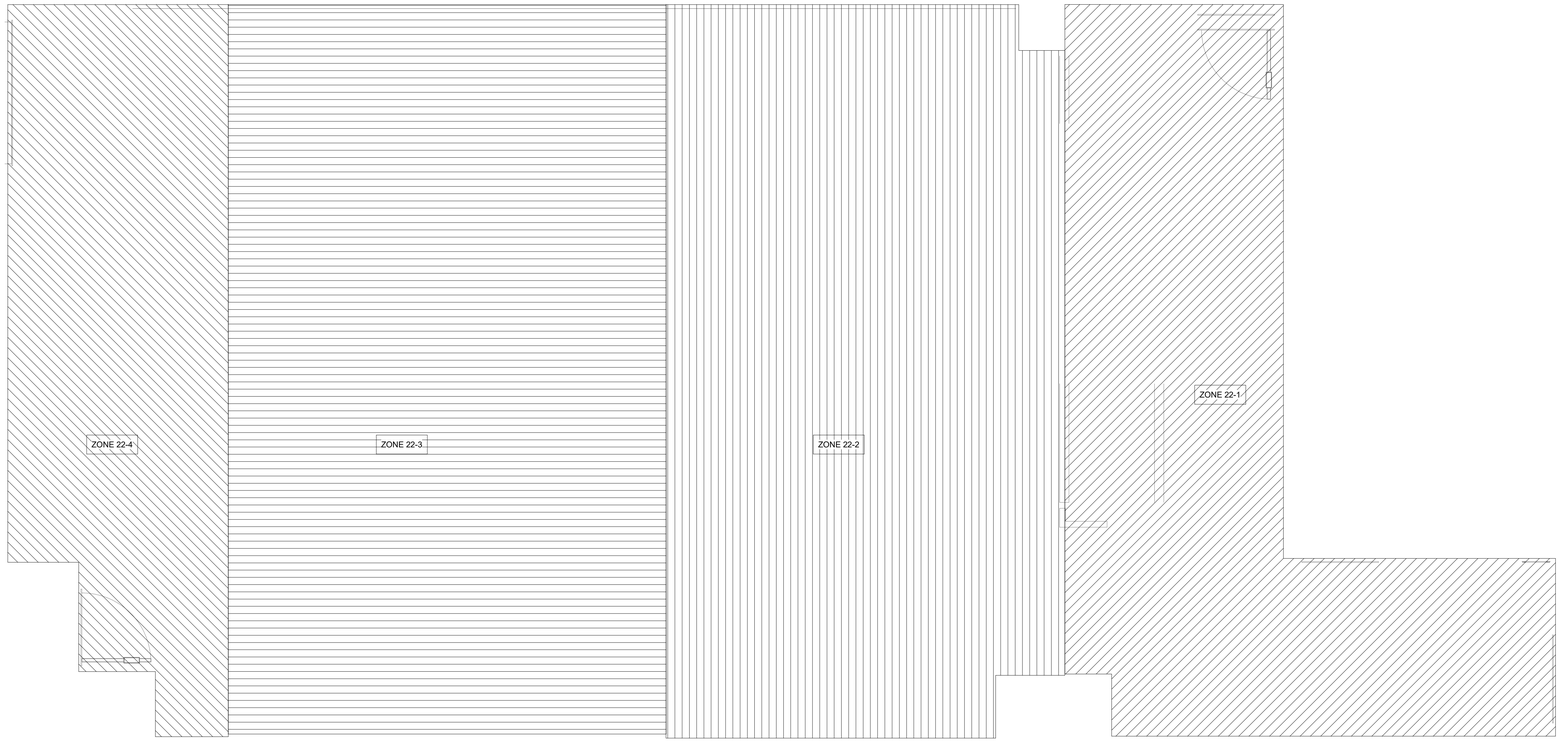
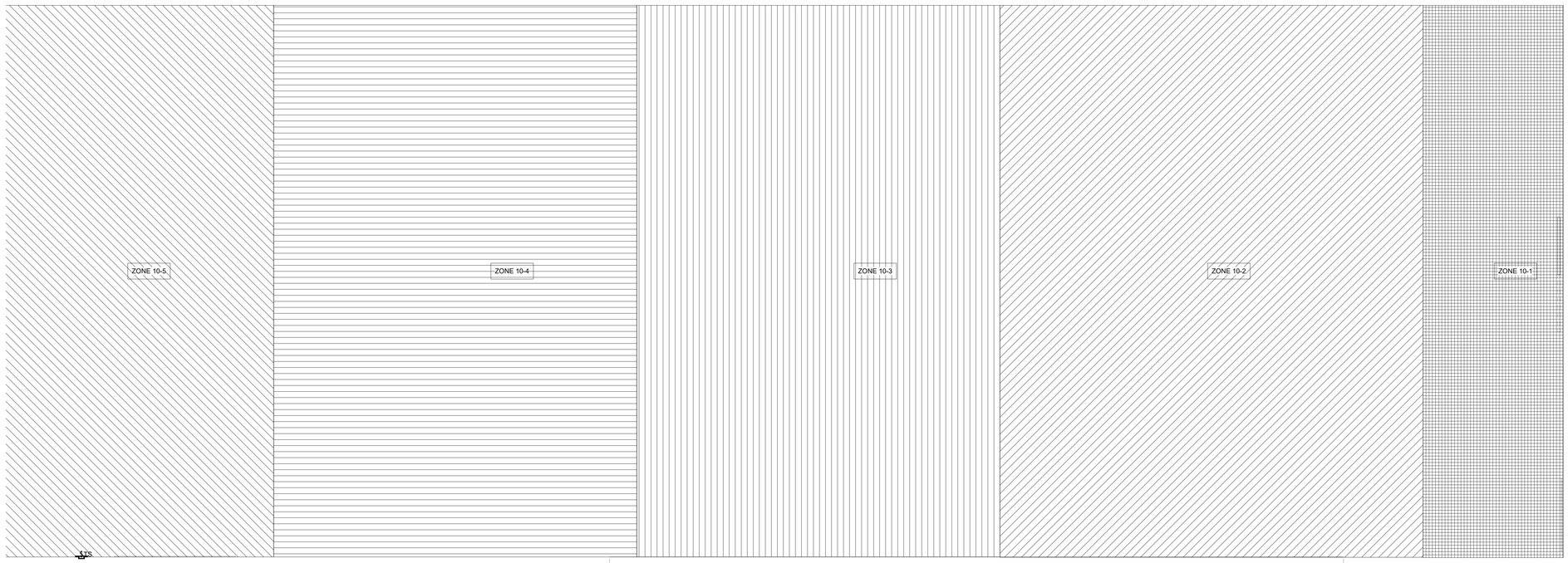
ENLARGED LIGHTING ZONES



2 **ENLARGED NEUROANATOMY LIGHTING ZONE PLAN**
3/8" = 1'-0"



1 **ENLARGED GROSS ANATOMY LIGHTING ZONE PLAN**
3/8" = 1'-0"

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TAHLEQUAH, OKLAHOMA

KEY PLAN:

02 01

PROJECT PHASE:

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REVISIONS

#	DATE	DESCRIPTION

DATE:	JOB NUMBER:
07-26-19	17-13

SHEET NUMBER:

E2.19

ENLARGED LIGHTING ZONES

KEYNOTES	
26.14	COORDINATE POWER FOR HANDRAIL LIGHTING WITH HANDRAIL MANUFACTURER SHOP DRAWINGS PRIOR TO ROUGH IN.

1 OVERALL POWER PLAN - LEVEL 01
1/16" = 1'-0"

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PROJECT NO. 18163R

95 % COMPLETE

HP ENGINEERING INC.
5214 W. VILLAGE PARKWAY
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ROGERS, AR 72758
(479) 899-6370
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CLIENT:

COLLEGE OF Osteopathic Medicine AT THE CHEROKEE NATION

TAHLEQUAH, OKLAHOMA

KEY PLAN:

02 | 01

PROJECT PHASE:

95% CONSTRUCTION DOCUMENTS

REVISIONS

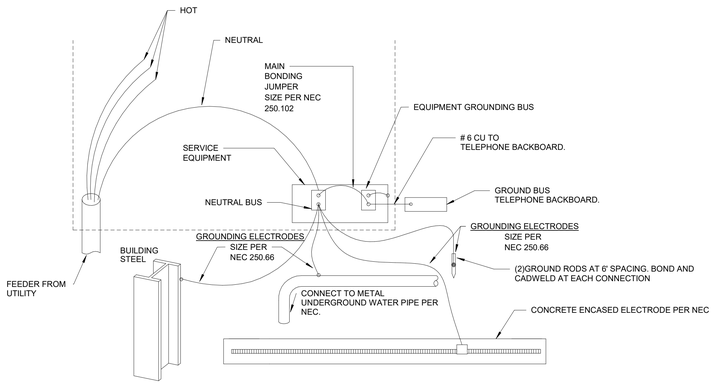
#	DATE	DESCRIPTION

DATE:	JOB NUMBER:
07-26-19	17-13

SHEET NUMBER:

E2.20

SITE LIGHTING



2 TYPICAL GROUNDING DETAIL
N.T.S.

1. CONDUIT SIZED BASED ON CONDUCTOR PROPERTIES LISTED IN THE CURRENT NEC EDITION, CHAPTER, 9, TABLES 5 AND 5A, AND CONDUIT AREAS LISTED CHAPTER 9, TABLE 4 FOR EMT WITH 40% FILL. OTHER CONDITIONS MAY REQUIRE A LARGER CONDUIT, SUCH AS UNDERGROUND PVC, SIZED FOR NEC.
2. GROUND SIZES: EQUIPMENT GROUNDING CONDUCTOR BASED ON NEC TABLE 250.122 - COPPER / GROUNDING ELECTRODE CONDUCTOR BASED ON NEC TABLE 250.66 - COPPER
3. CONDUCTOR SIZES BASED ON NEC TABLE 310.15 - COPPER 75°C.

ELECTRICAL FEEDER KEYNOTES

400-4	2 - 2"C,4#3/0,1#3 GR EACH
800-4	4 - 2"C, 4#3/0,1#1/0 GR EACH

ELECTRICAL SERVICE NOTES

1	THE ELECTRICAL CONTRACTOR SHALL VERIFY ALL SERVICE AND METERING REQUIREMENTS WITH THE UTILTY COMPANY PRIOR TO BID AND SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL MATERIAL AS REQUIRED BY THE SERVING UTILITY AS WELL AS COST INCURRED BY SERVING UTILITY.
2	THE ELECTRICAL CONTRACTOR SHALL VERIFY THE FAULT CURRENT AT THE SECONDARY OF THE TRANSFORMER WITH THE UTILITY COMPANY AND ADJUST THE ELECTRICAL PANEL AIC RATINGS TO THE NEXT HIGHER STANDARD RATING.
3	ALUMINUM SERVICE CONDUCTORS ARE NOT RECOMMENDED AND SHOULD ONLY BE USED WHERE ABSOLUTELY NECESSARY OR REQUIRED BY THE OWNER. CONTRACTOR TO CONTACT ENGINEER FOR SIZING. WHERE ALUMINUM CONDUCTORS ARE USED, THE OWNER SHALL PROVIDE ANNUAL MAINTENANCE OF ALL TERMINATIONS TO ENSURE SECURE CONNECTIONS. ALUMINUM WIRE WILL EXPAND AND CONTRACT AND OVER TIME MAY BECOME BRITTLE. THE OWNER SHALL ASSUME RESPONSIBILITY FOR USING ALUMINUM CONDUCTORS WITHOUT PROPER INSTALLATION, CARE, AND MAINTENANCE.
4	COORDINATE ALL SERVICE AND METERING DETAILS INCLUDING ANY RELOCATION OF EXISTING UTILITY LINES WITH POWER COMPANY.
5	CONTRACTOR TO CONFIRM EXACT LOCATION OF METERS WITH ELECTRIC UTILITY.
6	PAY ANY POWER COMPANY FEES CHARGED TO OWNER FOR SERVICE AND UTILITY LINE WORK ASSOCIATED WITH THIS PROJECT. THESE COSTS SHALL BE INCLUDED IN BIDS.
7	FURNISH AND INSTALL MATERIALS FOR A TEMPORARY CONSTRUCTION SERVICE AS REQUIRED.
8	FURNISH AND/OR INSTALL ALL REQUIRED MATERIAL AND LABOR IN COMPLIANCE WITH POWER COMPANY REQUIREMENTS TO PROVIDE A COMPLETE ELECTRICAL SERVICE, INCLUDING TRENCHING AND BACK FILLING, PRIMARY CONDUIT, CONCRETE TRANSFORMER PAD, SECONDARY CONDUITS AND CABLES, C.T. CABINET, METERING AND GROUNDING SYSTEM.

PANELBOARD NOTES (#)

1. TERMINATE GROUND ON ISOLATED GROUND BUS.
2. INSTALL LOCKING DEVICE FURNISHED WITH PANELBOARD (LOCK-OFF FOR MAINTENANCE).
3. INSTALL LOCKING DEVICE FURNISHED WITH PANELBOARD (LOCK-ON FOR CRITICAL LOAD).
4. GFI BREAKER FOR PERSONNEL PROTECTION (5mA).
5. GFI BREAKER FOR EQUIPMENT PROTECTION (30mA).
6. CONDUCTOR SIZE SHOWN IN PANEL SCHEDULE HAS BEEN INCREASED FOR VOLTAGE DROP. SIZE EQUIPMENT GROUND PROPORTIONALLY PER NEC. REFERENCE GROUND WIRE SIZING CHART.
7. REFER TO ONE-LINE DIAGRAM FOR AVAILABLE FAULT CURRENT FOR INTERRUPT RATINGS.
8. REFER TO ONE-LINE DIAGRAM FOR WIRE SIZES.
9. FACTORY WIRED TO LOAD.
10. THRU CONTROLLER. REFER TO LIGHTING CONTROLLER DETAIL.
11. ADD CIRCUIT BREAKER TO EXISTING PANEL.

EQUIPMENT GROUNDING CONDUCTOR SIZING CHART

BRKR AMPS		WIRE SIZE				
15-20	PHASE	12	10	8	6	4
	GROUND	12	10	8	6	4
25-30	PHASE	10	8	6	4	3
	GROUND	10	8	6	4	3
35-50	PHASE	8	6	4	3	2
	GROUND	10	8	4	4	4
60	PHASE	6	4	3	2	1
	GROUND	10	6	6	4	4
70	PHASE	6	4	3	2	1
	GROUND	8	4	4	3	2
80-90	PHASE	4	3	2	1	1/0
	GROUND	8	6	4	4	3
100	PHASE	3	2	1	1/0	2/0
	GROUND	8	6	4	4	3
PER NEC 250.122(B)						

SWITCHGEAR LABEL

THE MAIN SWITCHBOARD SHALL HAVE A LABEL APPLIED TO WARN OF POTENTIAL SHOCK HAZARDS

WARNING

SHOCK HAZARD EXISTS IF GROUNDING ELECTRODE CONDUCTOR OR BONDING JUMPER CONNECTION IN THIS EQUIPMENT IS REMOVED WHILE ALTERNATE SOURCE(S) IS ENERGIZED.

NOTES:

A. THE MAIN SWITCHBOARD SHALL HAVE A COMMERCIALLY PRODUCED PERMANENT LABEL APPLIED, SIMILAR TO THE ABOVE, TO WARN OF POTENTIAL SHOCK HAZARDS, IN ACCORDANCE WITH NEC 702.7 AND NFPA 70E.

B. LABELING MAY BE COMPLETED BY EQUIPMENT MANUFACTURER, EQUIPMENT VENDOR/SUPPLIER, OR THE CONTRACTOR. THE CONTRACTOR SHALL VERIFY THAT ALL SWITCHBOARDS AND PANELBOARDS ARE PROPERLY LABELED IN THE FIELD.

EQUIPMENT LABELS

ALL SWITCHBOARDS AND PANELBOARDS SHALL HAVE A LABEL APPLIED TO WARN OF POTENTIAL ARC FLASH HAZARDS

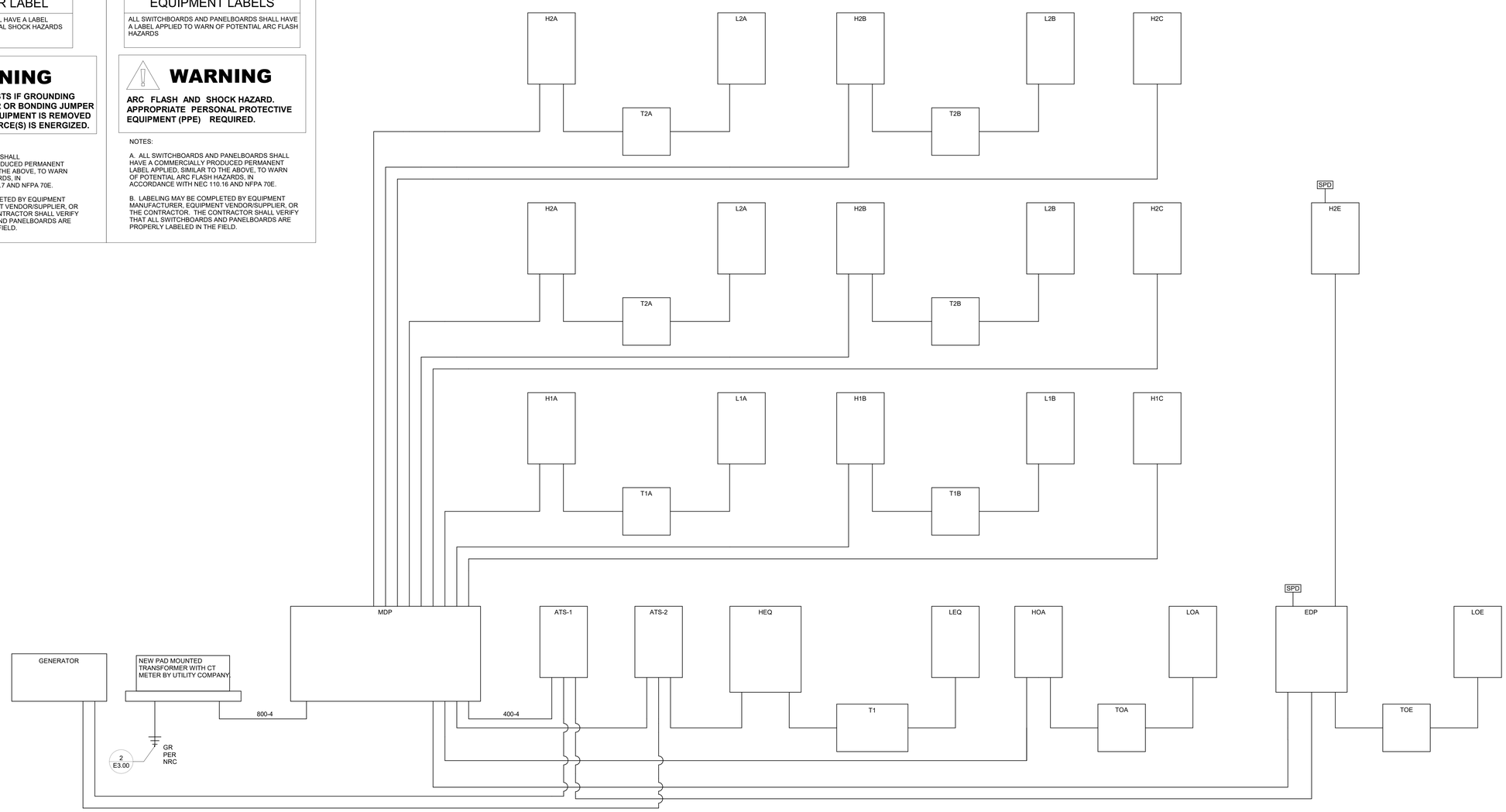
WARNING

ARC FLASH AND SHOCK HAZARD. APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT (PPE) REQUIRED.

NOTES:

A. ALL SWITCHBOARDS AND PANELBOARDS SHALL HAVE A COMMERCIALLY PRODUCED PERMANENT LABEL APPLIED, SIMILAR TO THE ABOVE, TO WARN OF POTENTIAL ARC FLASH HAZARDS, IN ACCORDANCE WITH NEC 110.16 AND NFPA 70E.

B. LABELING MAY BE COMPLETED BY EQUIPMENT MANUFACTURER, EQUIPMENT VENDOR/SUPPLIER, OR THE CONTRACTOR. THE CONTRACTOR SHALL VERIFY THAT ALL SWITCHBOARDS AND PANELBOARDS ARE PROPERLY LABELED IN THE FIELD.



1 RISER DIAGRAM
NTS

James R. Childers Architect, Inc.
45 South 4th Street
Fort Smith, AR 72901
479-783-2480
www.childersarchitect.com

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07-26-19	17-13

SHEET NUMBER:

E3.00

ELECTRICAL SCHEDULES AND RISER

Branch Panel: MDP — NEW

Location: | **Supply From:** | **Mounting:** SURFACE | **Enclosure:** NEMA 1
Volts: 480/277 Wye | **Phases:** 3 | **Wires:** 4
A.I.C. Rating: 10000 | **Mains Type:** MLO | **Mains Rating:** 100 A

Notes:

CKT	Load Name	CB	P	Wire	A	B	C	Wire	P	CB	Load Name	CKT
1					886...	886...						2
3	RTU-1	350	3			886...	886...		3	350	RTU-3	4
5							886...	886...				6
7					691...	127...						8
9	RTU-4	250	3			691...	0		3	175	RTU-2	10
11							691...	0				12
13					711...	749...						14
15	H1B	200	3			622...	697...		3	200	H1A	16
17							642...	711...				18
19					826...	694...						20
21	H2A	400	3			803...	574...		3	200	H2B	22
23							843...	943...				24
25					146...	401...						26
27	ATS-1	20	3			119...	361...		3	200	H3B	28
29							9682	356...				30
31					283...	406...						32
33	H0A	20	3			260...	380...		3	20	H0B	34
37							240...	391...				36
37					819...	480...						38
39	H3A	20	3			934...	480...		3	20	ATS-2	40
41							811...	480...				42
					Total Load:	926278 VA	769967 VA	798307 VA				
					Total Amps:	3360 A	2780 A	2898 A				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Hvac	1415021 VA	100.00%	1415021 VA		
Lighting	38696 VA	125.00%	48370 VA	**Total Conn. Load:**	2494552 VA
Other	193758 VA	100.00%	193758 VA	**Total Est. Demand:**	2183403 VA
Power	195432 VA	100.00%	195432 VA	**Total Conn. Current:**	3000 A
Receptacle	651646 VA	50.77%	330823 VA	**Total Est. Demand...**	2626 A

Branch Panel: H0E — NEW

Location: ZONE 6 20 | **Supply From:** ATS-1 | **Mounting:** SURFACE | **Enclosure:** NEMA 1
Volts: 480/277 Wye | **Phases:** 3 | **Wires:** 4
A.I.C. Rating: 10000 | **Mains Type:** MCB | **Mains Rating:** 200 A

Notes:

CKT	Load Name	CB	P	Wire	A	B	C	Wire	P	CB	Load Name	CKT
1	Lighting	20	1	#12	1693 3402			#12	1	20	Lighting	2
3	Lighting	20	1	#12		2797 675		#12	1	20	Lighting	4
5	Lighting	20	1	#12			3276 2492	#12	1	20	Lighting	6
7	Lighting	20	1	#12	3513 2526			#12	1	20	Lighting	8
9						3101		#12	1	20	Lighting	10
11	Lighting	20	1	#12			160 3754					12
13					3561			#12	3	20	H2E	14
15						5357						16
17												18
19												20
21												22
23												24
25												26
27												28
29												30
31												32
33												34
35												36
37												38
39												40
41												42
				Total Load:	14695 VA	11930 VA	9682 VA					
				Total Amps:	54 A	44 A	35 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting	36307 VA	125.00%	45383 VA		
				Total Conn. Load:	36307 VA
				Total Est. Demand:	45383 VA
				Total Conn. Current:	44 A
				Total Est. Demand...	55 A

Branch Panel: H0A — NEW

Location: MAIN ELECTRICAL ROOM | **Supply From:** MDP | **Mounting:** SURFACE | **Enclosure:** NEMA 1
Volts: 480/277 Wye | **Phases:** 3 | **Wires:** 4
A.I.C. Rating: 10000 | **Mains Type:** MLO | **Mains Rating:** 200 A

Notes:

CKT	Load Name	CB	P	Wire	A	B	C	Wire	P	CB	Load Name	CKT
1	VAV 2-1	20	1		3000 0				1	20	VAV 2-2	2
3	VAV 2-3	20	1			1500 1000			1	20	VAV 2-4	4
5							4333 4333					6
7	VAV 2-5A	20	3		4333 4333				3	20	VAV 2-5B	8
9						4333 4333						10
11							3667 1500		1	20	VAV 2-7	12
13	VAV 2-6	20	3		3667 1500				1	20	VAV 2-8	14
15						3667 1500			1	20	VAV 2-9	16
17							100... 150		1	20	Lighting	18
19	T0A	20	3		114...							20
21						9733						22
23												24
25												26
27												28
29												30
31												32
33												34
35												36
37												38
39												40
41												42
43												44
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49												50
51												52
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133												134
135												136
137												138
139												140
141												142
143												144
145												146
147												148
149												150
151												152
153												154
155												156
157												158
159												160
				Total Load:	28327 VA	26067 VA	24037 VA					
				Total Amps:	103 A	95 A	87 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Hvac	47000 VA	100.00%	47000 VA		
Lighting	150 VA	125.00%	188 VA	**Total Conn. Load:**	78430 VA
Receptacle	31280 VA	65.98%	20640 VA	**Total Est. Demand:**	67828 VA
				Total Conn. Current:	94 A
				Total Est. Demand...	82 A

Branch Panel: HEQ — NEW

Location: | **Supply From:** ATS-2 | **Mounting:** SURFACE | **Enclosure:** NEMA 1
Volts: 480/277 Wye | **Phases:** 3 | **Wires:** 4
A.I.C. Rating: 10000 | **Mains Type:** MLO | **Mains Rating:** 100 A

Notes:

CKT	Load Name	CB	P	Wire	A	B	C	Wire	P	CB	Load Name	CKT
1					480...							2
3	150 kVA	20	3	#12		480...						4
5							480...					6
7												8
9												10
11												12
13												14
15												16
17												18
19												20
21												22
23												24
25												26
27												28
29												30
31												32
33												34
35												36
37												38
39												40
41												42
				Total Load:	48082 VA	48082 VA	48082 VA					
				Total Amps:	174 A	174 A	174 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Power	144246 VA	100.00%	144246 VA		
				Total Conn. Load:	144246 VA
				Total Est. Demand:	144246 VA
				Total Conn. Current:	174 A
				Total Est. Demand...	174 A

Branch Panel: H2E — NEW

Location: | **Supply From:** H0E | **Mounting:** SURFACE | **Enclosure:** NEMA 1
Volts: 480/277 Wye | **Phases:** 3 | **Wires:** 4
A.I.C. Rating: 10000 | **Mains Type:** MLO | **Mains Rating:** 100 A

Notes:

CKT	Load Name	CB	P	Wire	A	B	C	Wire	P	CB	Load Name	CKT
1	Lighting	20	1		2687 1067				1	20	Lighting	2
3	Lighting	20	1			2283 1278			1	20	Lighting	4
5	Lighting	20	1				2176 3181		1	20	Lighting	6
7												8
9												10
11												12
13												14
15												16
17												18
19												20
21												22
23												24
25												26
27												28
29												30
31												32
33												34
35												36
37												38
39												40
41												42
				Total Load:	3754 VA	3561 VA	5357 VA					
				Total Amps:	14 A	13 A	19 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting	12672 VA	125.00%	15840 VA		
				Total Conn. Load:	12672 VA
				Total Est. Demand:	15840 VA
				Total Conn. Current:	15 A
				Total Est. Demand...	19 A

PANELBOARD NOTES (#)

1. TERMINATE GROUND ON ISOLATED GROUND BUS.
2. INSTALL LOCKING DEVICE FURNISHED WITH PANELBOARD (LOCK-OFF FOR MAINTENANCE).
3. INSTALL LOCKING DEVICE FURNISHED WITH PANELBOARD (LOCK-ON FOR CRITICAL LOAD).
4. GFI BREAKER FOR PERSONNEL PROTECTION (5mA).
5. GFI BREAKER FOR EQUIPMENT PROTECTION (30mA).
6. CONDUCTOR SIZE SHOWN IN PANEL SCHEDULE HAS BEEN INCREASED FOR VOLTAGE DROP. SIZE EQUIPMENT GROUND PROPORTIONALLY PER NEC. REFERENCE GROUND WIRE SIZING CHART.
7. REFER TO ONE-LINE DIAGRAM FOR AVAILABLE FAULT CURRENT FOR INTERRUPT RATINGS.
8. REFER TO ONE-LINE DIAGRAM FOR WIRE SIZES.
9. FACTORY WIRED TO LOAD.
10. THRU CONTROLLER. REFER TO LIGHTING CONTROLLER DETAIL.
11. ADD CIRCUIT BREAKER TO EXISTING PANEL.

EQUIPMENT GROUNDING CONDUCTOR SIZING CHART

BRKR AMPS		WIRE SIZE				
15-20	PHASE	12	10	8	6	4
	GROUND	12	10	8	6	4
25-30	PHASE	10	8	6	4	3
	GROUND	10	8	6	4	3
35-50	PHASE	8	6	4	3	2
	GROUND	10	8	4	4	4
60	PHASE	6	4	3	2	1
	GROUND	10	6	6	4	4
70	PHASE	6	4	3	2	1
	GROUND	8	4	4	3	2
80-90	PHASE	4	3	2	1	1/0
	GROUND	8	6	4	4	3
100	PHASE	3	2	1	1/0	2/0
	GROUND	8	6	4	4	3

PER NEC 250.122(B)

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PANEL SCHEDULES

Branch Panel: H1A — NEW

Location: L1 ELEC S (1016) **Volts:** 480/277 Wye **A.I.C. Rating:** 10000
Supply From: MDP **Phases:** 3 **Mains Type:** MLO
Mounting: SURFACE **Wires:** 4 **Mains Rating:** 400 A
Enclosure: NEMA 1
Notes:

CKT	Load Name	CB	P	Wire	A		B		C		Wire	P	CB	Load Name	CKT
1					8000	2167									2
3	VAV 1-1A	45	3				8000	2167				3	15	VAV 1-1B	4
5									8000	2167					6
7	VAV 1-3	20	1		3000	2167									8
9	VAV 1-4	15	1				3000	2167				3	15	VAV 1-2	10
11	VAV 1-5	15	1						2500	2167					12
13	VAV 1-6	15	1		3000	4667									14
15							2000	4667				3	25	VAV 1-8	16
17	VAV 1-9	15	3						2000	4667					18
19					2000	2000									20
21	VAV 1-11	20	1				2500	2000				3	15	VAV 1-10	22
23									2167	2000					24
25	VAV 1-46D	15	3		2167	2167									26
27							2167	2167				3	15	VAV 1-13	28
29									7759	2167					30
31	VAV 1-15B	20	3		7759	3000						1	15	VAV 1-14B	32
33							7759	7759							34
35										7759		3	35	VAV 1-15A	36
37						7759									38
39								233...							40
41										277...		3	20	T1A	42
43						250...									44
45															46
47															48
49															50
51															52
53															54
				Total Load:	74932 VA		69732 VA		71112 VA						
				Total Amps:	271 A		252 A		257 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Hvac	139556 VA	100.00%	139556 VA		
Receptacle	76220 VA	56.56%	43110 VA	**Total Conn. Load:**	215776 VA
				Total Est. Demand:	182666 VA
				Total Conn. Current:	260 A
				Total Est. Demand...	220 A

Branch Panel: H1B — NEW

Location: L1 ELEC N (1063) **Volts:** 480/277 Wye **A.I.C. Rating:** 10000
Supply From: MDP **Phases:** 3 **Mains Type:** MLO
Mounting: SURFACE **Wires:** 4 **Mains Rating:** 200 A
Enclosure: NEMA 1
Notes:

CKT	Load Name	CB	P	Wire	A		B		C		Wire	P	CB	Load Name	CKT
1	VAV 4-1	20	1		4500	500						1	15	VAV 4-2	2
3	VAV 4-3	15	1				500	3000				1	15	VAV 4-4	4
5									2167	3500		1	20	VAV 4-6	6
7	VAV 4-5	15	3		2167	2000						1	15	VAV 4-8	8
9							2167	500				1	15	VAV 4-10	10
11	VAV 4-7	15	1						2000	1000		1	15	VAV 4-12	12
13	VAV 4-9	15	1		500	3000						1	15	VAV 4-14	14
15	VAV 4-11	20	1				4500	1500				1	15	VAV 4-16	16
17	VAV 4-13	15	1						1500	500		1	15	VAV 4-18	18
19	VAV 4-15	15	1		3000	2500						1	15	VAV 4-20	20
21	VAV 4-17A	15	1				2500	2500				1	15	VAV 4-21	22
23									1833	6096					24
25	VAV 4-17B	15	3		1833	6096									26
27							1833	6096				3	30	VAV 4-22A	28
29	VAV 4-19	15	1						1500	6096					30
31					390...	6096									32
33	T1B	20	3				310...	6096				3	30	VAV 4-22B	34
35									380...						36
37															38
39															40
41															42
				Total Load:	71195 VA		62253 VA		64249 VA						
				Total Amps:	258 A		225 A		233 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Hvac	89578 VA	100.00%	89578 VA		
Power	9072 VA	100.00%	9072 VA	**Total Conn. Load:**	197696 VA
Receptacle	99046 VA	55.05%	54523 VA	**Total Est. Demand:**	153173 VA
				Total Conn. Current:	238 A
				Total Est. Demand...	184 A

Branch Panel: H2A — NEW

Location: L2 ELEC S (2014) **Volts:** 480/277 Wye **A.I.C. Rating:** 10000
Supply From: MDP **Phases:** 3 **Mains Type:** MLO
Mounting: SURFACE **Wires:** 4 **Mains Rating:** 400 A
Enclosure: NEMA 1
Notes:

CKT	Load Name	CB	P	Wire	A		B		C		Wire	P	CB	Load Name	CKT
1	VAV 1-16	20	1		4500	3000						1	15	VAV 1-17	2
3	VAV 1-18	15	1				3000	1833							4
5									1667	1833		3	15	VAV 1-19	6
7	VAV 1-20	15	3		1667	1833									8
9							1667	2500				1	15	VAV 1-21	10
11	VAV 1-22	15	1						2500	1500		1	20	VAV 1-23	12
13	VAV 1-24	20	1		1500	2000						1	20	VAV 1-25	14
15	VAV 1-26	20	1				1500	2167							16
17	VAV 1-28	20	1						1500	2167		3	15	VAV 1-27	18
19	VAV 1-29	15	1		1500	2167									20
21	VAV 1-30	15	1				1500	1500				1	20	VAV 1-31	22
23	VAV 1-33	20	1						4500	1500		1	15	VAV 1-34	24
25	VAV 1-35	15	1		1500	1500						1	15	VAV 1-36	26
27	VAV 1-37	15	1				1500	1500				1	15	VAV 1-38	28
29	VAV 1-39	15	1						1500	1500		1	15	VAV 1-40	30
31	VAV 1-41	15	1		1500	1500						1	15	VAV 1-42	32
33	VAV 1-43	15	1				1500	1500				1	15	VAV 1-44	34
35	VAV 1-45	15	1						1500	3000		1	15	VAV 1-46C	36
37	Hvac	20	1		0	2000						1	20	VAV 4-23	38
39							233...								40
41										205...		3	20	T2A	42
43					340...	225...									44
45	T3B	20	3				352...								46
47									391...						48
49															50
51															52
53															54
55															56
57															58
59															60
61															62
63															64
65															66
67															68
69															70
71															72
73															74
75															76
77															78
79															80
81															82
83															84
				Total Load:	82677 VA		80307 VA		84397 VA						
				Total Amps:	300 A		290 A		306 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Hvac	72500 VA	100.00%	72500 VA		
Power	21020 VA	100.00%	21020 VA	**Total Conn. Load:**	247380 VA
Receptacle	153860 VA	53.25%	81930 VA	**Total Est. Demand:**	175450 VA
				Total Conn. Current:	298 A
				Total Est. Demand...	211 A

Branch Panel: H3A — NEW

Location: **Volts:** 480/277 Wye **A.I.C. Rating:** 10000
Supply From: MDP **Phases:** 3 **Mains Type:** MLO
Mounting: SURFACE **Wires:** 4 **Mains Rating:** 800 A
Enclosure: NEMA 1
Notes:

CKT	Load Name	CB	P	Wire	A		B		C		Wire	P	CB	Load Name	CKT
1					1667	3000						1	15	VAV 3-2	2
3	VAV 3-1	15	3				1667	3500				1	15	VAV 3-3	4
5									1667	2500		1	15	VAV 3-4	6
7	VAV 3-5	20	1		4000	3000						1	15	VAV 3-6	8
9	VAV 3-8	15	1				1500	1500				1	15	VAV 3-9	10
11	VAV 3-11	15	1						1500	1667					12
13	VAV 3-13	15	1		2500	1667						3	15	VAV 3-12	14
15	VAV 3-14	15	1				1500	1667							16
17	VAV 3-10	15	1						2500	3500		1	15	VAV 3-15	18
19	VAV 3-16	15	1		1500	1500						1	15	VAV 3-17	20
21	VAV 3-18	15	1				1500	2500				1	15	VAV 3-19	22
23	VAV 3-20	15	1						2500	2500		1	15	VAV 3-7	24
25	Hvac	20	1		0	6667									26
27								6667				3	30	VAV 3-22B	28
29										6667					30
31															32
33															34
35															36
37					1760										38
39	EF-7	20	3				1760								40
41									1760						42
43															44
45															46
47															48
49					547...										50
51	T3A	20	3				696...								52
53									543...						54
				Total Load:	81980 VA		93454 VA		81102 VA						
				Total Amps:	296 A		338 A		293 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Hvac	73556 VA	100.00%	73556 VA		
Other	66144 VA	100.00%	66144 VA	**Total Conn. Load:**	256536 VA
Power	8276 VA	100.00%	8276 VA	**Total Est. Demand:**	207256 VA
Receptacle	108560 VA	54.61%	59280 VA	**Total Conn. Current:**	309 A
				Total Est. Demand...	249 A

Branch Panel: H3B — NEW

Location: L3 ELEC N (3101) **Volts:** 480/277 Wye **A.I.C. Rating:** 10000
Supply From: MDP **Phases:** 3 **Mains Type:** MLO
Mounting: SURFACE **Wires:** 4 **Mains Rating:** 400 A
Enclosure: NEMA 1
Notes:

CKT	Load Name	CB	P	Wire	A		B		C		Wire	P	CB	Load Name	CKT
1						4500						1	20	VAV 3-26	2
3							2000	1500				1	15	VAV 3-28	4
5	VAV 3-27	15	3						2000	3667					6
7					2000	3667						3	20	VAV 3-29	8
9							2167	3667							10
11	VAV 3-30	15	3						2167	2167					12
13					2167	2167						3	15	VAV 3-31	14
15							2167	2167							16
17	VAV 3-32	15	3						2167	2167					18
19					2167	2167						3	15	VAV 3-33	20
21							1667	2167							22
23	VAV 3-34	15	3						1667	2500		1	15	VAV 3-35	24
25					1667	1500						1	15	VAV 3-36	26
27							1667	3000				1	15	VAV 3-38	28
29	VAV 3-37	15	3						1667	1667					30
31					1667	1667						3	15	VAV 3-39	32
33	VAV 3-40	15	1				1500	1667							34
35									1667	4000		1	20	VAV 3-42	36
37	VAV 3-41	15	3		1667	2500						1	15	VAV 3-43	38
39							1667	2500				1	15	VAV 3-44	40
41	VAV 3-45	15	1						1500	1500		1	15	VAV 3-46	42
43	VAV 3-47	15	1		2500	2167									44
45	Hvac	20	1				4500	2167				3	15	VAV 3-48	46
47	VAV 3-50	15	1						3000	2167					48
49	VAV 3-51	15	1		1500	4500						1	20	VAV 3-24	50
51															52
53															54
55															56
57															58
59															60
61															62
63															64
65															66
67															68
69															70
71															72
73															74
75															76
77															78
79															80
81															82
83															84
				Total Load:	40167 VA		36167 VA		35667 VA						
				Total Amps:	145 A		131 A		129 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Hvac	112000 VA	100.00%	112000 VA		
				Total Conn. Load:	112000 VA
				Total Est. Demand:	112000 VA
				Total Conn. Current:	135 A
				Total Est. Demand...	135 A

Branch Panel: H2B — NEW

Location: L2 ELEC N (2072) **Volts:** 480/277 Wye **A.I.C. Rating:** 10000
Supply From: MDP **Phases:** 3 **Mains Type:** MLO
Mounting: SURFACE **Wires:** 4 **Mains Rating:** 200 A
Enclosure: NEMA 1
Notes:

CKT	Load Name	CB	P	Wire	A		B		C		Wire	P	CB	Load Name	CKT
1					2500	3500						1	20	VAV 4-40	2
3	VAV 4-24	15	3				2500	1500				1	15	VAV 4-26	4
5									2500	4000		1	20	VAV 4-27	6
7	VAV 4-28	15	1		2000	1500						1	15	VAV 4-29	8
9	VAV 4-30	15	1				1500	0				1	15	VAV 4-31	10
11	VAV 4-36	20	1						4500	500		1	20	VAV 4-33	12
13	VAV 4-34	15	1		2000	2000						1	15	VAV 4-35	14
15	VAV 4-32	20	1				1500	1667							16
17									1667	1667		3	15	VAV 4-37	18
19	VAV 4-38	15	3		1667	1667									20
21							1667								22
23									2667	365...		1	20	Hvac	24
25	VAV 4-39	20	3		2667										26
27							2667	1500				1	20	VAV 4-26	28
29									6097						30
31	VAV 4-41A	20	3		6097										32
33							6097								34
35															36
37					438...										38
39	T2B	20	3				368...								40
41									341...						42
				Total Load:	69437 VA		57417 VA		94337 VA						
				Total Amps:	257 A		207 A		347 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Hvac	106370 VA	100.00%	106370 VA		
Receptacle	114820 VA	54.35%	62410 VA	**Total Conn. Load:**	221190 VA
				Total Est. Demand:	168780 VA
				Total Conn. Current:	266 A
				Total Est. Demand...	203 A

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PROFESSIONAL SEAL:

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COLLEGE OF Osteopathic Medicine AT THE CHEROKEE NATION
TAHLEQUAH, OKLAHOMA

KEY PLAN:

PROJECT PHASE:
95% CONSTRUCTION DOCUMENTS

REVISIONS

#	DATE	DESCRIPTION

DATE: 07-26-19
JOB NUMBER: 17-13
SHEET NUMBER: E3.02

PANEL SCHEDULES

Branch Panel: L1A NEW

Location:
Supply From: T1A
Mounting: SURFACE
Enclosure: NEMA 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
A.I.C. Rating: 10000
Mains Type: MLO
Mains Rating: 100 A

Notes:

CKT	Load Name	CB	P	Wire	A		B		C		Wire	P	CB	Load Name	CKT
1	LH 1 FLOOR BOX	20	1		500	500						1	20	LH 1 FLOOR BOX	2
3	LH 1 FLOOR BOX	20	1				500	500				1	20	LH 1 FLOOR BOX	4
5	LH 1 FLOOR BOX	20	1						500	500		1	20	LH 1 FLOOR BOX	6
7	LH 1 FLOOR BOX	20	1		500	500						1	20	LH 1 FLOOR BOX	8
9	LH 1 FLOOR BOX	20	1				500	500				1	20	LH 1 FLOOR BOX	10
11	LH 1 FLOOR BOX	20	1						500	500		1	20	LH 1 FLOOR BOX	12
13	LH 1 FLOOR BOX	20	1		500	500						1	20	LH 1 FLOOR BOX	14
15	LH 1 FLOOR BOX	20	1				500	500				1	20	LH 1 FLOOR BOX	16
17	LH 1 FLOOR BOX	20	1						500	500		1	20	LH 1 FLOOR BOX	18
19	LH 1 RECEPTACLES	20	1		1800	1800						1	20	LH 1 RECEPTACLES	20
21	LH 1 RECEPTACLES	20	1				2160	1440				1	20	LH 1 RECEPTACLES	22
23	LH 1 FLOOR BOX	20	1						500	500		1	20	LH 1 FLOOR BOX	24
25	LH 1 FLOOR BOX	20	1		500	500						1	20	LH 1 FLOOR BOX	26
27	LH 1 FLOOR BOX	20	1				500	500				1	20	LH 1 FLOOR BOX	28
29	LH 1 FLOOR BOX	20	1						500	500		1	20	LH 1 FLOOR BOX	30
31	LH 1 FLOOR BOX	20	1		500	500						1	20	LH 1 FLOOR BOX	32
33	LH 1 RECEPTACLES	20	1				1440	1800				1	20	TESTING STORAGE RECEPTACLES	34
35	L1 LOBBY WATERFOUNTAIN (4)	20	1						360	1440		1	20	L1 LOBBY RECEPTACLES	36
37	L1 LOBBY QUAD	20	1		360	360						1	20	L1 LOBBY QUAD	38
39	CLASSROOM - LL2 FLOOR BOX	20	1				500	500				1	20	CLASSROOM - LL2 FLOOR BOX	40
41	CLASSROOM - LL2 FLOOR BOX	20	1						500	500		1	20	CLASSROOM - LL2 FLOOR BOX	42
43	CLASSROOM - LL2 FLOOR BOX	20	1		500	500						1	20	CLASSROOM - LL2 FLOOR BOX	44
45	CLASSROOM - LL2 RECEPTACLES	20	1				1440	500				1	20	CLASSROOM - LL2 FLOOR BOX	46
47	CLASSROOM - LL2 RECEPTACLES	20	1						1800	1800		1	20	CLASSROOM - LL2 RECEPTACLES	48
49	GYM FLOOR BOX	20	1		500	500						1	20	GYM FLOOR BOX	50
51	GYM FLOOR BOX	20	1				500	500				1	20	GYM FLOOR BOX	52
53	GYM FLOOR BOX	20	1						500	500		1	20	CLASSROOM - LL1 FLOOR BOX	54
55	CLASSROOM - LL1 FLOOR BOX	20	1		500	500						1	20	CLASSROOM - LL1 FLOOR BOX	56
57	CLASSROOM - LL1 FLOOR BOX	20	1				500	500				1	20	CLASSROOM - LL1 FLOOR BOX	58
59	CLASSROOM - LL1 FLOOR BOX	20	1						500	500		1	20	CLASSROOM - LL1 FLOOR BOX	60
61	CLASSROOM - LL1 FLOOR BOX	20	1		500	1440						1	20	CLASSROOM - LL1 RECEPTACLES	62
63	CLASSROOM - LL1 TV/RECEPTACLES	20	1				1440	1800				1	20	CLASSROOM - LL1 RECEPTACLES	64
65	CLASSROOM - LL1 RECEPTACLES	20	1						1440	500		1	20	GS 4 FLOOR BOX	66
67	GS 4 QUAD	20	1		360	1800						1	20	GS 4 USB RECEPTACLES	68
69	L1 JAN GFCI RECEPTACLES	20	1				540	1080				1	20	L1 STORAGE RECEPTACLES	70
71	RELAXATION ROOM RECEPTACLES	20	1						1440	500		1	20	GS 5 FLOOR BOX	72
73	GS 5 RECEPTICALS	20	1		1800	360						1	20	GS 5 QUAD	74
75	L1 CORR S RECEPTACLES	20	1				1800	360				1	20	GYM STEREO QUAD	76
77	LOCKER RM 1/ GYM RECEPTACLES	20	1						1760	1080		1	20	L1 TOILET GFCI RECEPTACLES	78
79	GS 3 FLOOR BOX	20	1		500	500						1	20	GS 2 FLOOR BOX	80
81	GS 3 QUAD	20	1				360	1800				1	20	GS 3 USB RECEPTACLES	82
83	GS 3 USB RECEPTACLES	20	1						1440	360		1	20	GS 2 QUAD	84
85	GS 2 USB RECEPTACLES	20	1		1800	500						1	20	GS 1 FLOOR BOX	86
87	GS 1 QUAD	20	1				360	1440				1	20	GS 1 USB RECEPTACLES	88
89	GS 2 USB RECEPTACLES	20	1						1080	1080		1	20	GS 1 USB RECEPTACLES	90
91	Receptacle ZONE 1-19 113	20	1		500	500						1	20	Receptacle ZONE 1-19 113	92
93	Receptacle ZONE 1-19 113	20	1				500	500				1	20	CLASSROOM - LL2 CEILING TV	94
95	Receptacle ZONE 1-18 110	20	1						500	500		1	20	Receptacle ZONE 1-64 451	96
97	Receptacle ZONE 1-63 463	20	1		500	0					--	1	20	SPARE	98
99	SPARE	20	1	--			0	0			--	1	20	SPARE	100
101	SPARE	20	1	--					0	0	--	1	20	SPARE	102
103	SPARE	20	1	--	0	0					--	1	20	SPARE	104
105	SPARE	20	1	--			0	0			--	1	20	SPARE	106
107	SPARE	20	1	--					0	0	--	1	20	SPARE	108
109	SPARE	20	1	--	0	0					--	1	20	SPARE	110
111	SPARE	20	1	--			0	0			--	1	20	SPARE	112
113	SPARE	20	1	--					0	0	--	1	20	SPARE	114
115	SPARE	20	1	--	0	0					--	1	20	SPARE	116
117	SPARE	20	1	--			0	0			--	1	20	SPARE	118
119	SPARE	20	1	--					0	0	--	1	20	SPARE	120
121	SPACE	--	--	--	0	0					--	--	--	SPACE	122
123	SPACE	--	--	--			0	0			--	--	--	SPACE	124
125	SPACE	--	--	--					0	0	--	--	--	SPACE	126
127	SPACE	--	--	--	0	0					--	--	--	SPACE	128
129	SPACE	--	--	--			0	0			--	--	--	SPACE	130
131	SPACE	--	--	--					0	0	--	--	--	SPACE	132
133	SPACE	--	--	--	0	0					--	--	--	SPACE	134
135	SPACE	--	--	--			0	0			--	--	--	SPACE	136
137	SPACE	--	--	--					0	0	--	--	--	SPACE	138
139	SPACE	--	--	--	0	0					--	--	--	SPACE	140
141	SPACE	--	--	--			0	0			--	--	--	SPACE	142
143	SPACE	--	--	--					0	0	--	--	--	SPACE	144
145	SPACE	--	--	--	0	0					--	--	--	SPACE	146
147	SPACE	--	--	--			0	0			--	--	--	SPACE	148
149	SPACE	--	--	--					0	0	--	--	--	SPACE	150
151	SPACE	--	--	--	0	0					--	--	--	SPACE	152
153	SPACE	--	--	--			0	0			--	--	--	SPACE	154
155	SPACE	--	--	--					0	0	--	--	--	SPACE	156
157	SPACE	--	--	--	0	0					--	--	--	SPACE	158
159	SPACE	--	--	--			0	0			--	--	--	SPACE	160
161	SPACE	--	--	--					0	0	--	--	--	SPACE	162
163	SPACE	--	--	--	0	0					--	--	--	SPACE	164
165	SPACE	--	--	--			0	0			--	--	--	SPACE	166
167	SPACE	--	--	--					0	0	--	--	--	SPACE	168
				Total Load:	23380 VA		27760 VA		25080 VA						
				Total Amps:	195 A		234 A		211 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	76220 VA	56.56%	43110 VA		
				Total Conn. Load:	76220 VA
				Total Est. Demand:	43110 VA
				Total Conn. Current:	212 A
				Total Est. Demand...	120 A

Branch Panel: L2A NEW

Location:
Supply From: T2A
Mounting: SURFACE
Enclosure: NEMA 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
A.I.C. Rating: 10000
Mains Type: MLO
Mains Rating: 100 A

Notes:

CKT	Load Name	CB	P	Wire	A		B		C		Wire	P	CB	Load Name	CKT
1	CE STORAGE DRYER	20	1		360	180						2	20	CE STORAGE DRYER	2
3	CE STORAGE GARBAGE DISPOSAL	20	1				360	180							4
5	CE STORAGE DISHWASHER	20	1						360	180		1	20	CE STORAGE RECEPTACLE	6
7	CE STORAGE RECEPTACLE	20	1		720	2160						1	20	CE STORAGE RECEPTACLES	8
9	CE STORAGE RECEPTACLES	20	1				2160	360				1	20	SC1 JUNCTION BOX	10
11	SC 1 FLOOR BOX	20	1						500	500		1	20	SC 1 FLOOR BOX	12
13	SC 2 FLOOR BOX	20	1		500	500						1	20	SC 2 FLOOR BOX	14
15	SC 2 FLOOR BOX	20	1				500	1440				1	20	L2 CORR S RECEPTACLE	16
17	CE STORAGE RECEPTACLES	20	1						2160	360		1	20	ST STUDY 7 JUNCTION BOX	18
19	ST STUDY 7 JUNCTION BOX	20	1		360	360						1	20	ST STUDY 7 JUNCTION BOX	20
21	ST STUDY 6 JUNCTION BOX	20	1				360	360				1	20	ST STUDY 6 JUNCTION BOX	22
23	ST STUDY 6 JUNCTION BOX	20	1						360	360		1	20	ST STUDY 5 JUNCTION BOX	24
25	ST STUDY 5 JUNCTION BOX	20	1		360	360						1	20	ST STUDY 5 JUNCTION BOX	26
27	ST STUDY 6 RECEPTACLES	20	1				1080	1440				1	20	L2 FAM TLT 2 RECEPTACLES	28
29	SC 12 JUNCTION BOX	20	1						360	360		1	20	SC 12 JUNCTION BOX	30
31	SC 12 JUNCTION BOX	20	1		360	360						1	20	SC 13 JUNCTION BOX	32
33	SC 13 JUNCTION BOX	20	1				360	360				1	20	SC 13 JUNCTION BOX	34
35	SC 14 JUCTION BOX	20	1						360	360		1	20	SC 14 JUNCTION BOX	36
37	SC 14 JUNCTION BOX	20	1		360	2160						1	20	CE WAITING RECEPTACLES	38
39	LOBBY RECEPTACLES	20	1				1800	360				1	20	CE WAITING QUAD	40
41	LIBRARY COPIER QUAD	20	1						360	360		1	20	LIBRARY COPIER QUAD	42
43	LIBRARY FLOOR BOX	20	1		500	500						1	20	LIBRARY FLOOR BOX	44
45	LIBRARY FLOOR BOX	20	1				500	360				1	20	ST STUDY 1 JUNCTION BOX	46
47	ST STUDY 1 JUNCTION BOX	20	1						360	360		1	20	ST STUDY 1 JUNCTION BOX	48
49	ST STUDY 1 RECEPTACLES	20	1		1080	360						1	20	LIBRARY QUAD	50
51	ST STUDY 2 JUNCTION BOX	20	1				360	360				1	20	ST STUDY 2 JUNCTION BOX	52
53	ST STUDY 2 JUNCTION BOX	20	1						360	360		1	20	ST STUDY 2 JUNCTION BOX	54
55	LIBRARY FLOOR BOX	20	1		500	1440						1	20	L2 MERCH RECEPTACLES	56
57	L2 IDF QUAD	20	1				360	250				2	20	L2 IDF SPECIAL POWER	58
59	WATER FOUNTAIN (4)	20	1						360	250					60
61	L2 JAN GFCI RECEPTACLE	20	1		540	360						1	20	GS 10 QUAD	62
63	GS 10 FLOOR BOX	20	1				500	720				1	20	GS 10 USB RECEPTACLE	64
65	GS 10 USB RECEPTACLE	20	1						1080	360		1	20	GS 9 QUAD	66
67	GS 9 USB RECEPTACLES	20	1		720	1080						1	20	GS 9 USB RECEPTACLES	68
69	GS 9 FLOOR BOX	20	1				500	360				1	20	GS 8 QUAD	70
71	GS 8 FLOOR BOX	20	1						500	1440		1	20	GS 8 USB RECEPTACLES	72
73	SC 4 RECEPTACLES	20	1		1440	360						1	20	SC 3 JUNCTION BOX	74
75	SC 3 JUNCTION BOX	20	1				360	360				1	20	SC 3 JUNCTION BOX	76
77	SC 4 UNCTION BOX	20	1						360	360		1	20	SC 4 JUNCTION BOX	78
79	SC 5 JUNCTION BOX	20	1		360	360						1	20	SC 5 JUNCTION BOX	80
81	SC 5 JUNCTION BOX	20	1				360	500				1	20	STUDENT SENATE OFFICE FLOOR BOX	82
83	STUDENT SENATE OFFICE QUAD	20	1						360	1440		1	20	STUDENT SENATE OFFICE...	84
85	REBOOT ROOM RECEPTACLES	20	1		1080	360						1	20	REBOOT ROOM QUAD	86
87	REBOOT ROOM QUAD	20	1				360	360				1	20	REBOOT ROOM QUAD	88
89	LIB OFFICE RECEPTACLES	20	1						2220	360		1	20	LIB OFFICE QUAD	90
91	SC 9 JUNCTION BOX	20	1		360	360						1	20	SC 9 JUNCTION BOX	92
93	SC 9 JUNCTION BOX	20	1				360	360				1	20	SC 10 JUNCTION BOX	94
95	SC 10 JUNCTION BOX	20	1						360	360		1	20	SC 10 JUNCTION BOX	96
97	SC 11 JUNCTION BOX	20	1		360	360						1	20	SC 11 JUNCTION BOX	98
99	SC 6 JUNCTION BOX	20	1				360	360				1	20	SC 6 JUNCTION BOX	100
101	SC 6 JUNCTION BOX	20	1						360	360		1	20	SC 7 JUNCTION BOX	102
103	SC 7 JUNCTION BOX	20	1		360	360						1	20	SC 7 JUNCTION BOX	104
105	SC 8 JUNCTION BOX	20	1				360	360				1	20	SC 8 JUNCTION BOX	106
107	SC 8 JUNCTION BOX	20	1						360	360		1	20	ST STUDY 3 JUNCTION BOX	108
109	ST STUDY 3 JUNCTION BOX	20	1		360	360						1	20	ST STUDY 3 JUNCTION BOX	110
111	ST STUDY 4 JUNCTION BOX	20	1				360	360				1	20	ST STUDY 4 JUNCTION BOX	112
113	SC 8 RECEPTACLES	20	1						1800	1080		1	20	SC 10 RECEPTACLES	114
115	ST SUDY 4 JUNCTION BOX	20	1		360	0					--	1	20	SPARE	116
117	SPARE	20	1	--			0	0			--	1	20	SPARE	118
119	SPARE	20	1	--					0	0	--	1	20	SPARE	120
121	SPARE	20	1	--	0	0					--	1	20	SPARE	122
123	SPARE	20	1	--			0	0			--	1	20	SPARE	124
125	SPARE	20	1	--					0	0	--	1	20	SPARE	126
127	SPARE	20	1	--	0	0					--	1	20	SPARE	128
129	SPARE	20	1	--			0	0			--	1	20	SPARE	130
131	SPARE	20	1	--					0	0	--	1	20	SPARE	132
133	SPARE	20	1	--	0	0					--	1	20	SPARE	134
135	SPACE	--	--	--			0	0			--	--	--	SPACE	136
137	SPACE	--	--	--					0	0	--	--	--	SPACE	138
139	SPACE	--	--	--	0	0					--	--	--	SPACE	140
141	SPACE	--	--	--			0	0			--	--	--	SPACE	142
143	SPACE	--	--	--					0	0	--	--	--	SPACE	144
145	SPACE	--	--	--	0	0					--	--	--	SPACE	146
147	SPACE	--	--	--			0	0			--	--	--	SPACE	148
149	SPACE	--	--	--					0	0	--	--	--	SPACE	150
151	SPACE	--	--	--	0	0					--	--	--	SPACE	152
153	SPACE	--	--	--			0	0			--	--	--	SPACE	154
155	SPACE	--	--	--					0	0	--	--	--	SPACE	156
157	SPACE	--	--	--	0	0					--	--	--	SPACE	158
159	SPACE	--	--	--			0	0			--	--	--	SPACE	160
161	SPACE	--	--	--					0	0	--	--	--	SPACE	162
163	SPACE	--	--	--	0	0					--	--	--	SPACE	164
165	SPACE	--	--	--			0	0			--	--	--	SPACE	166
167	SPACE	--	--	--					0	0	--	--	--	SPACE	168
				Total Load:	23380 VA		20570 VA		22510 VA						
				Total Amps:	197 A		171 A		190 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Power	21020 VA	100.00%	21020 VA		
Receptacle	45440 VA	61.00%	27720 VA	**Total Conn. Load:**	66460 VA
				Total Est. Demand:	48740 VA
				Total Conn. Current:	184 A
				Total Est. Demand...	135 A

Branch Panel: L2B NEW

Location:
Supply From: T2B
Mounting: SURFACE
Enclosure: NEMA 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
A.I.C. Rating: 10000
Mains Type: MLO
Mains Rating: 100 A

Notes:

CKT	Load Name	CB	P	Wire	A		B		C		Wire	P	CB	Load Name	CKT
1	CLINICAL SKILLS QUAD	20	1		360	360						1	20	CLINICAL SKILLS QUAD	2
3	CLINICAL SKILLS QUAD	20	1				360	360				1	20	CLINICAL SKILLS QUAD	4
5	CLINICAL SKILLS QUAD	20	1						180	180		1	20	CLINICAL SKILLS QUAD	6
7	CLINICAL SKILLS QUAD	20	1		180	180						1	20	CLINICAL SKILLS QUAD	8
9	CLINICAL SKILLS FLOOR BOX	20	1				500	500				1	20	CLINICAL SKILLS FLOOR BOX	10
11	CLINICAL SKILLS FLOOR BOX	20	1						500	500		1	20	CLINICAL SKILLS FLOOR BOX	12
13	CLINICAL SKILLS FLOOR BOX	20	1		500	500						1	20	CLINICAL SKILLS FLOOR BOX	14
15	CLINICAL SKILLS FLOOR BOX	20	1				500	500				1	20	CLINICAL SKILLS FLOOR BOX	16
17	CLINICAL SKILLS FLOOR BOX	20	1						500	500		1	20	CLINICAL SKILLS FLOOR BOX	18
19	CLINICAL SKILLS FLOOR BOX	20	1		500	500						1	20	CLINICAL SKILLS FLOOR BOX	20
21	CLINICAL SKILLS QUAD	20	1				180	180				1	20	CLINICAL SKILLS QUAD	22
23	CLINICAL SKILLS RECEPTACLES	20	1						2160	1800		1	20	CLINICAL SKILLS RECEPTACLES	24
25	CLINICAL SKILLS CEILING...	20	1		2500	500						1	20	CLINICAL SKILLS FLOOR BOX	26
27	CLINICAL SKILLS FLOOR BOX	20	1				500	500				1	20	CLINICAL SKILLS FLOOR BOX	28
29	CLINICAL SKILLS TV/RECEPTACLES	20	1						1440	180		1	20	CLINICAL SKILLS QUAD	30
31	CLINICAL SKILLS QUAD	20	1		180	2580						1	20	CS STORAGE RECEPTACLES	32
33	CS STORAGE RECEPTACLES	20	1				1800	1440				1	20	L2 CORR N RECEPTACLES	34
35	STUDENT LOUNGE FLOOR BOX	20	1						500	1440		1	20	STUDENT LOUNGE RECEPTACLES	36
37	STUDENT LOUNGE GFCI RECEPTACLE	20	1		1080	500						1	20	GS 12 FLOOR BOX	38
39	GS 12 QUAD	20	1				360	1080				1	20	GS 12 RECEPTACLES	40
41	GS 12 USB RECEPTACLES	20	1						1080	1800		1	20	STUDENT LOUNGE RECEPTACLES	42
43	GS 11 RECEPTACLES	20	1		1080	1440						1	20	GS 11 RECEPTACLES	44
45	GS 11 QUAD	20	1				360	500				1	20	GS 11 FLOOR BOX	46
47	CE OFFICE QUAD	20	1						360	2220		1	20	CE OFFICE RECEPTACLES	48
49	DEBRIEF QUAD	20	1		360	720						1	20	DEBRIEF RECEPTACLES	50
51	DEBRIEF FLOOR BOX	20	1				500	1080				1	20	DEBRIEF RECEPTACLES	52
53	L2 RESTROOM AND DRESSING...	20	1						1080	360		1	20	SP WAITING AND LOUNGE...	54
55	SP WAITING AND LOUNGE	20	1		1440	500						1	20	SP WAITING AND LOUNGE FLOOR BOX	56
57	CE PERIMETER CORR 1 RECEPTACLES	20	1				1080	360				1	20	E PERIMETER CORR 1 QUAD	58
59	CE PERIMETER CORR 1 QUAD	20	1						360	360		1	20	CE PERIMETER CORR 1 QUAD	60
61	CE PERIMETER CORR 1 QUAD	20	1		360	1800						1	20	CE PERIMETER CORR 1 RECEPTACLES	62
63	PREBRIEF RECEPTACLES	20	1				720	500				1	20	PREBRIEF FLOOR BOX	64
65	PREBRIEF QUAD	20	1						360	1080		1	20	PREBRIEF RECEPTACLES	66
67	EXAM CORRIDOR QUAD	20	1		360	360						1	20	EXAM 7 QUAD	68
69	EXAM 7 QUAD	20	1				360	1800				1	20	EXAM 7 RECEPTACLES	70
71	EXAM 7 BLOOD PRESSURE CUFF	20	1						360	360		1	20	EXAM 8 QUAD	72
73	EXAM 8 BLOOD PRESSURE CUFF	20	1		360	360						1	20	EXAM 8 QUAD	74
75	EXAM 8 RECEPTACLES	20	1				1800	1800				1	20	EXAM 9 RECEPTACLES	76
77	EXAM 9 QUAD	20	1						360	360		1	20	EXAM 9 BLOOD PRESSURE CUFF	78
79	EXAM 9 QUAD	20	1		360	1800						1	20	EXAM 10 RECEPTACLES	80
81	EXAM 10 QUAD	20	1				360	360				1	20	EXAM 10 BLOOD PRESSURE CUFF	82
83	EXAM 10 QUAD	20	1						360	360		1	20	CONTROL ROOM QUAD	84
85	EXAM CORRIDOR RECEPTACLES	20	1		1800	360						1	20	EXAM CORRIDOR QUAD	86
87	EXAM CORRIDOR QUAD	20	1				360	360				1	20	EXAM CORRIDOR QUAD	88
89	EXAM CORRIDOR QUAD	20	1						360	360		1	20	EXAM CORRIDOR QUAD	90
91	EXAM CORRIDOR RECEPTACLES	20	1		1800	360						1	20	EXAM CORRIDOR QUAD	92
93	EXAM CORRIDOR QUAD	20	1				360	360				1	20	EXAM CORRIDOR QUAD	94
95	EXAM CORRIDOR QUAD	20	1						360	360		1	20	EXAM CORRIDOR QUAD	96
97	CE PERIMETER RECEPTACLES	20	1		1800	1800						1	20	EXAM 6 RECEPTACLES	98
99	EXAM 6 QUAD	20	1				360	360				1	20	EXAM 6 BLOOD PRESSURE CUFF	100
101	EXAM 6 QUAD	20	1						360	1800		1	20	EXAM 5 RECEPTACLES	102
103	EXAM 5 QUAD	20	1		360	360						1	20	EXAM 5 BLOOD PRESSURE CUFF	104
105	EXAM 5 QUAD	20	1				360	1800				1	20	EXAM 4 RECEPTACLES	106
107	EXAM 4 QUAD	20	1						360	360		1	20	EXAM 4 BLOOD PRESSURE CUFF	108
109	EXAM 4 QUAD	20	1		360	1800						1	20	EXAM 3 RECEPTACLES	110
111	EXAM 3 QUAD	20	1				360	360				1	20	EXAM 3 BLOOD PRESSURE CUFF	112
113	EXAM 3 QUAD	20	1						360	1800		1	20	EXAM 2 RECEPTACLES	114
115	EXAM 2 QUAD	20	1		360	360						1	20	EXAM 2 BLOOD PRESSURE CUFF	116
117	EXAM 2 QUAD	20	1				360	1800				1	20	EXAM 1 RECEPTACLES	118
119	EXAM 1 QUAD	20	1						360	360		1	20	EXAM 1 BLOOD PRESSURE CUFF	120
121	EXAM 1 QUAD	20	1		360	1620						1	20	CE PERIMETER RECEPTACLES	122
123	CE PERIMETER CORR 2 QUAD	20	1				360	360				1	20	CE PERIMETER CORR 2 QUAD	124
125	CE PERIMETER CORR 2 QUAD	20	1						360	360		1	20	CE PERIMETER CORR 2 QUAD	126
127	CE PERIMETER CORR 2 QUAD	20	1		360	360						1	20	CE PERIMETER CORR 2 QUAD	128
129	COPIER EXAM CORRIDOR	20	1				360	1080				1	20	CONTROL ROOM RECEPTACLES	130
131	CONTROL ROOM RECEPTACLES	20	1						720	360		1	20	CONTROL ROOM QUAD	132
133	CONTROL ROOM QUAD	20	1		360	1500						1	20	MICROWAVE STUDENT LOUNGE	134
135	MICROWAVE STUDENT LOUNGE	20	1				360	1500				1	20	MICROWAVE STUDENT LOUNGE	136
137	Receptacle	20	1						180	360		1	20	STUDENT LOUNGE GARBAGE...	138
139	STUDENT LOUNGE COFFEE GRINDER	20	2		180	180						2	20	STUDENT LOUNGE COFFEE MAKER	140
141							180	180							142
143	STUDENT LOUNGE RECEPTACLES	20	1						540	900		1	20	STUDENT LOUNGE RECEPTACLES	144
145	Receptacle	20	1		1000	1500						1	20	STUDENT LOUNGE MICROWAVE	146
147	STUDENT LOUNGE MICROWAVE	20	1				360	1500				1	20	MICROWAVE STUDENT LOUNGE	148
149	SP WAITING & LOUNGE MICROWAVE	20	1						360	1000		1	20	REFRIGERATOR STUDENT LOUNGE	150
151	REFRIGERATOR STUDENT LOUNGE	20	1		1000	1000						1	20	VENDING MACHINE STUENT LOUNGE	152
153	VENDING MACHINE STUENT LOUNGE	20	1				1000	360				1	20	MICROWAVE SP WAITING AND LOUNGE	154
155	SP WAITING AND LOUNGE GARBAGE...	20	1						360	360		1	20	SP WAITING AND LOUNGE ICE...	156
157	SP WAITING AND LOUNGE COFFEE...	20	2		180	1000						1	20	REFRIGERATOR SP WAITING &...	158
159							180	1500				1	20	MICROWAVE SP WAITING AND LOUNGE	160
161	SPARE	20	1	--					0	0	--	1	20	SPARE	162
163	SPARE	20	1	--	0	0					--	1	20	SPARE	164
165	SPARE	20	1	--			0	0			--	1	20	SPARE	166
167	SPARE	20	1	--					0	0	--	1	20	SPARE	168
				Total Load:	43840 VA		36820 VA		34160 VA						
				Total Amps:	369 A		310 A		285 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	114820 VA	54.35%	62410 VA		
				Total Conn. Load:	114820 VA
				Total Est. Demand:	62410 VA
				Total Conn. Current:	319 A
				Total Est. Demand...	173 A

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PROFESSIONAL SEAL:
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CONSULTANT LOGO:
HP ENGINEERING
PROJECT NO. 18163R
95 % COMPLETE

HP ENGINEERING INC.
5214 W. VILLAGE PARKWAY
SUITE 120
ROGERS, AR 72758
(479) 899-6370
www.hpengineeringinc.com

CLIENT:

COLLEGE OF Osteopathic Medicine AT THE CHEROKEE NATION
TAHLEQUAH, OKLAHOMA

KEY PLAN:

PROJECT PHASE:
95% CONSTRUCTION DOCUMENTS

REVISIONS		
#	DATE	DESCRIPTION

DATE: 07-26-19
JOB NUMBER: 17-13
SHEET NUMBER: E3.03

PANEL SCHEDULES

Branch Panel: L3A — NEW

Location: L3 ELEC S (3014) | Volts: 120/208 Wye | A.I.C. Rating: 10000
Supply From: T3A | Phases: 3 | Mains Type: MLO
Mounting: SURFACE | Wires: 4 | Mains Rating: 400 A
Enclosure: NEMA 1

Notes:

CKT	Load Name	CB	P	Wire	A		B		C		Wire	P	CB	Load Name	CKT
1	MCU-0-1	40	2	#8	3536	1456						2	15	MCU 0-0	2
3							3536	1456							4
5	MCU-0-2	40	2	#8					3536	1456		2	15	MCU-0-3	6
7					3536	1456									8
9	MCU-0-4	40	2	#8			3536	1872				2	20	MCU-3-2	10
11									3536	1872					12
13	MCU-2-2	20	2		2704	3536					#8	2	40	MCU-1-2	14
15							2704	3536							16
17	MCU 0-5	20	2						1456	1456		2	20	MCU 2-1	18
19					1456	1456									20
21	MCU 1-1	20	2				1456	1456				2	20	MCU 3-1	22
23									1456	1456					24
25	MCU-1-3	20	2		1872	1872						2	20	MCU-2-3	26
27							1872	1872							28
29	MCU-3-3	20	2						1872	1800		1	20	LH 2 RECEPTACLES	30
31					1872	1800						1	20	LH 2 RECEPTACLES	32
33	LH 2 RECEPTACLES	20	1				2160	500				1	20	LH 2 FLOOR BOX	34
35	LH 2 FLOOR BOX	20	1						500	500		1	20	LH 2 FLOOR BOX	36
37	LH 2 FLOOR BOX	20	1		500	500						1	20	LH 2 FLOOR BOX	38
39	LH 2 FLOOR BOX	20	1				500	500				1	20	LH 2 FLOOR BOX	40
41	LH 2 FLOOR BOX	20	1						500	500		1	20	LH 2 FLOOR BOX	42
43	LH 2 FLOOR BOX	20	1		500	500						1	20	LH 2 FLOOR BOX	44
45	LH 2 FLOOR BOX	20	1				500	500				1	20	LH 2 FLOOR BOX	46
47	LH 2 FLOOR BOX	20	1						500	500		1	20	LH 2 FLOOR BOX	48
49	LH 2 FLOOR BOX	20	1		500	500						1	20	LH 2 FLOOR BOX	50
51	LH 2 FLOOR BOX	20	1				500	2160				1	20	LH 2 RECEPTACLES	52
53	LH 2 FLOOR BOX	20	1						500	500		1	20	LH 2 FLOOR BOX	54
55	LH 2 FLOOR BOX	20	1		500	500						1	20	LH 2 FLOOR BOX	56
57	LH 2 FLOOR BOX	20	1				500	500				1	20	LH 2 FLOOR BOX	58
59	LH 2 FLOOR BOX	20	1						500	500		1	20	LH 2 FLOOR BOX	60
61	LH 2 FLOOR BOX	20	1		500	500						1	20	LH 2 FLOOR BOX	62
63	LH 2 AV QUAD	20	1				360	250				2	20	LH 2 AV SPECIAL RECEPTACLE	64
65	EF-1	20	1						1056	250					66
67	Power	20	2		1248	1440						1	20	LH 2 RECEPTACLES	68
69							1248	1800				1	20	L3 IDF RECEPTACLE	70
71	SS LEARNING SPEC QUAD	20	1						360	1260		1	20	SS LEARNING SPEC RECEPTACLE	72
73	SS ASST REG QUAD	20	1		360	900						1	20	L3 RESTROOM RECEPTACLES	74
75	ADMIN LOAN OFF QUAD	20	1				360	2160				1	20	SS ASST REG RECEPTACLES	76
77	SS ADMIN ASST QUAD	20	1						360	900		1	20	SS ADMIN ASST RECEPTACLES	78
79	SS WAITING RECEPTACLES	20	1		1260	360						1	20	SS ASST SA & WC QUAD	80
81	ADDT OFF 1 QUAD	20	1				360	2160				1	20	ADDT OFF 1 RECEPTACLES	82
83	ADDT OFF 2 QUAD	20	1						360	360		1	20	ADDT OFF 3 QUAD	84
85	ADDT OFF 3 RECEPTACLES	20	1		2160	360						1	20	FAC CORR S QUAD	86
87	FAC CORR 2 COPIER	20	1				360	1800				1	20	IT WORKROOM RECEPACLES	88
89	IT WORKROOM RECEPTACLES	20	1						1800	1800		1	20	IT WORKROOM RECEPTACLES	90
91	SH 1 QUAD	20	1		360	360						1	20	SH 1 QUAD	92
93	SH 1 RECEPTACLES	20	1				6000	360				1	20	SH 2 QUAD	94
95	SH 2 QUAD	20	1						360	6000		1	20	SH 2 RECEPTACLES	96
97	SH 3 QUAD	20	1		360	360						1	20	SH 3 QUAD	98
99	SH 3 RECEPTACLES	20	1				6000	360				1	20	STAFF 23 QUAD	100
101	STAFF 23 RECEPTACLES	20	1						3720	360		1	20	STAFF 24 RECEPTACLES	102
103	STAFF 25 RECEPTACLES	20	1		360	4440						1	20	STAFF 24 RECEPTACLES	104
105	FAC CORR S	20	1				1800	360				1	20	FACULTY CONF 3 RECEPTACLES	106
107	FACULTY CONF 3 FLOOR BOX	20	1						500	360		1	20	EXEC CONF QUAD	108
109	EXEC CONF FLOOR BOX	20	1		500	720						1	20	EXEC CONF RECEPTACLES	110
111	EXEC CONF RECEPTACLES	20	1				1080	720				1	20	FACULTY CONF 3 RECEPTACLES	112
113	FACULTY CONF 3 RECEPTACLES	20	1						1080	360		1	20	EXECUTIVE KITCHENETTE...	114
115	EXEC KITCHENETTE MICROWAVE	20	1		360	180						1	20	EXEC KITCHENETTE MICROWAVE	116
117	EXEC KITCHENETTE COFFEE MAKER	20	2				180	500				1	20	EXEC CORRIDOR FLOOR BOX	118
119									180	2160		1	20	EXEC CORRIDOR RECEPTACLES	120
121	EXEC ADMIN 1 FLOOR BOX	20	1		500	360						1	20	EXEC OFF 3 QUAD	122
123	EXEC OFF 3 RECEPTACLES	20	1				1800	360				1	20	EXEC WKRM/COPY COPIER	124
125	EXEC WKRM/COPY RECEPTACLES	20	1						1080	360		1	20	SS CIRC REFRIGERATOR	126
127	SS CIRC MICROWAVE	20	1		180	180						2	20	SS CIRC COFFEE MAKER	128
129	SS STORAGE RECEPTACLES	20	1				1260	180							130
131	SS WKRM/COPY COPIER	20	1						360	1620		1	20	SS WKRM/COMP RECEPTACLES	132
133	SS CONF RM QUAD	20	1		360	500						1	20	SS CONF RM FLOOR BOX	134
135	SS CONF RM RECEPTACLES	20	1				720	1080				1	20	SS CONF RM RECEPTACLES	136
137	OSU CHS PRESIDENT OFF QUAD	20	1						360	360		1	20	EXEC KITCHENETTE DISHWASHER	138
139	OSU CHS PRESIDENT OFF...	20	1		720	1260						1	20	OSU CHS PRESIDENT OFF...	140
141	CAMPUS DEAN OFFICE QUAD	20	1				500	1080				1	20	CAMPUS DEAN OFFICE RECEPTACLES	142
143	A/A DEAN OFF QUAD	20	1						360	360		1	20	EXEC OFF 2 QUAD	144
145	EXEC OFF 1 QUAD	20	1		360	2160						1	20	EXEC OFF RECEPTACLES	146
147	A/A DAEN OFF RECEPTACLES	20	1				1440	1440				1	20	A/A DEAN OFF RECEPTACLES	148
149	LH2 CEILING TV	20	1						500	500		1	20	LH2 CEILING TV	150
151	LH2 CEILING TV	20	1		500	0					--	1	20	SPARE	152
153	SPARE	20	1	--			0	0			--	1	20	SPARE	154
155	SPARE	20	1	--					0	0	--	1	20	SPARE	156
157	SPACE	--	--	--	0	0					--	1	20	SPARE	158
159	SPACE	--	--	--			0	0			--	--	--	SPACE	160
161	SPACE	--	--	--					0	0	--	--	--	SPACE	162
163	SPACE	--	--	--	0	0					--	--	--	SPACE	164
165	SPACE	--	--	--			0	0			--	--	--	SPACE	166
167	SPACE	--	--	--					0	0	--	--	--	SPACE	168
				Total Load:	54720 VA		69694 VA		54342 VA						
				Total Amps:	456 A		581 A		453 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Hvac	1056 VA	100.00%	1056 VA		
Other	66144 VA	100.00%	66144 VA	Total Conn. Load:	178756 VA
Power	2996 VA	100.00%	2996 VA	Total Est. Demand:	129476 VA
Receptacle	108560 VA	54.61%	59280 VA	Total Conn. Current:	496 A
				Total Est. Demand...	359 A

Branch Panel: L3B — NEW

Location: | Volts: 120/208 Wye | A.I.C. Rating: 10000
Supply From: T3B | Phases: 3 | Mains Type: MLO
Mounting: SURFACE | Wires: 4 | Mains Rating: 100 A
Enclosure: NEMA 1

Notes:

CKT	Load Name	CB	P	Wire	A		B		C		Wire	P	CB	Load Name	CKT
1	RH SH OFF QUAD	20	1		360	360						1	20	RH SH OFF QUAD	2
3	RN SH OFF RECEPTACLE	20	1				1440	360				1	20	RH & CSI CONF QUAD	4
5	TH & CSI CONF RECEPTACLES	20	1						1440	360		1	20	CSI OFF 3 QUAD	6
7	CSI OFF 3 RECEPTACLES	20	1		900	360						1	20	CSI OFF 2 QUAD	8
9	CSI OFF 2 RECEPTACLES	20	1				900	360				1	20	RH OFF 2 QUAD	10
11	RH OFF 2 RECEPTACLES	20	1						900	360		1	20	STAFF 1 QUAD	12
13	STAFF 1 RECEPTACLES	20	1		540	360						1	20	STAFF 2 QUAD	14
15	STAFF 2 RECEPTACLES	20	1				900	360				1	20	OFF 1 QUAD	16
17	OFF 1 RECEPTACLES	20	1						1440	360		1	20	OFF 2 QUAD	18
19	OFF 2 RECEPTACLES	20	1		1440	360						1	20	OFF 3 QUAD	20
21	OFF 3 RECEPTACLES	20	1				2220	360				1	20	SH 4 QUAD	22
23	SH 4 QUAD	20	1						360	4860		1	20	SH 4 RECEPTACLES	24
25	SH 5 QUAD	20	1		360	360						1	20	SH 5 QUAD	26
27	SH 5 RECEPTACLES	20	1				2580	360				1	20	OFF 4 QUAD	28
29	OFF 4 RECEPTACLES	20	1						2220	360		1	20	OF 5 QUAD	30
31	OFF 6 QUAD	20	1		360	3720						1	20	OFF 6 RECEPTACLES	32
33	STAFF 11 QUAD	20	1				360	360				1	20	STAFF 6 QUAD	34
35	STAFF 11 RECEPTACLES	20	1						1800	360		1	20	STAFF 10 QUAD	36
37	STAFF 5 QUAD	20	1		360	1800						1	20	STAFF 10 RECEPTACLES	38
39	STAFF 9 QUAD	20	1				360	360				1	20	STAFF 4 QUAD	40
41	STAFF 9 RECEPTACLES	20	1						1800	360		1	20	STAFF 8 QUAD	42
43	STAFF 3 QUAD	20	1		360	1080						1	20	STAFF 8 RECEPTACLES	44
45	STAFF 3 RECEPTACLES	20	1				1080	360				1	20	STAFF 7 QUAD	46
47	CSI OFF 1 QUAD	20	1						360	1800		1	20	STAFF 7 RECEPTACLES	48
49	STAFF 22 QUAD	20	1		360	1080						1	20	STAFF 22 RECEPTACLES	50
51	OFF 14 QUAD	20	1				360	1260				1	20	OFF 14 RECEPTACLES	52
53	OFF 13 QUAD	20	1						360	360		1	20	OFF 12 QUAD	54
55	OFF 13 RECEPTACLES	20	1		1800	360						1	20	OFF 10 QUAD	56
57	OFF 11 QUAD	20	1				360	1800				1	20	OFF 11 RECEPTACLES	58
59	OFF 9 QUAD	20	1						360	360		1	20	OFF 8 QUAD	60
61	OFF 7 QUAD	20	1		360	1800						1	20	OFF 9 RECEPTACLES	62
63	OFF 7 RECEPTACLES	20	1				900	360				1	20	STAFF 12 QUAD	64
65	STAFF 13 QUAD	20	1						360	1260		1	20	STAFF 12 RECEPTACLES	66
67	STAFF 13 RECEPTACLES	20	1		1080	360						1	20	STAFF 14 QUAD	68
69	STAFF 15 QUAD	20	1				360	1080				1	20	STAFF 14 RECEPTACLES	70
71	STAFF 15 RECEPTACLES	20	1						1080	360		1	20	STAFF 16 QUAD	72
73	STAFF 16 RECEPTACLES	20	1		900	360						1	20	STAFF 17 QUAD	74
75	STAFF 17 RECEPTACLES	20	1				1080	360				1	20	STAFF 18 QUAD	76
77	STAFF 18 RECEPTACLES	20	1						1260	360		1	20	STAFF 19 QUAD	78
79	STAFF 19 RECEPTACLES	20	1		900	360						1	20	STAFF 20 QUAD	80
81	STAFF 20 RECEPTACLES	20	1				1080	360				1	20	STAFF 21 QUAD	82
83	STAFF 21 RECEPTACLES	20	1						1080	500		1	20	CLASSROOM - LL3 FLOOR BOX	84
85	CLASSROOM - LL3 FLOOR BOX	20	1		500	500						1	20	CLASSROOM - LL3 FLOOR BOX	86
87	CLASSROOM - LL3 FLOOR BOX	20	1				500	500				1	20	CLASSROOM - LL3 FLOOR BOX	88
89	CLASSROOM - LL3 FLOOR BOX	20	1						500	500		1	20	CLASSROOM - LL3 FLOOR BOX	90
91	CLASSROOM - LL3 FLOOR BOX	20	1		500	1440						1	20	CLASSROOM - LL3 RECEPTACLES	92
93	CLASSROOM - LL3 RECEPTACLES	20	1				1440	1440				1	20	CLASSROOM - LL3 RECEPTACLES	94
95	CLASSROOM - LL3 RECEPTACLES	20	1						1080	1080		1	20	CLASSROOM - LL3 RECEPTACLES	96
97	CLASSROOM - LL4 RECEPTACLES	20	1		1440	1080						1	20	CLASSROOM - LL4 RECEPTACLES	98
99	CLASSROOM - LL4 RECEPTACLES	20	1				1440	1440				1	20	CLASSROOM - LL4 RECEPTACLES	100
101	CLASSROOM - LL4 RECEPTACLES	20	1						1440	500		1	20	CLASSROOM - LL4 FLOOR BOX	102
103	CLASSROOM - LL4 FLOOR BOX	20	1		500	500						1	20	CLASSROOM - LL4 FLOOR BOX	104
105	CLASSROOM - LL4 FLOOR BOX	20	1				500	500				1	20	CLASSROOM - LL4 FLOOR BOX	106
107	CLASSROOM - LL4 FLOOR BOX	20	1						500	500		1	20	CLASSROOM - LL4 FLOOR BOX	108
109	CLASSROOM - LL4 FLOOR BOX	20	1		500	360						1	20	FACULTY CONF 1 QUAD	110
111	FACULTY WORKROOM COPIER	20	1				360	1440				1	20	FACULTY CONF 1 RECEPTACLE	112
113	FACULTY CONF 2 QUAD	20	1						360	1440		1	20	FACULTY BREAKROOM RECEPTACLES	114
115	FACULTY BREAKROOM ICE MAKER (4)	20	1		360	540						1	20	FACULTY BREAKROOM RECEPTACLES	116
117	FACULTY BREAKROOM FREEZER (4)	20	1				1000	1000				1	20	FACULTY BREAKROOM...	118
119	FACULTY CONF 2 RECEPTACLES	20	1						1440	1440		1	20	FACULTY WORKROOM RECEPTACLES	120
121	FACULTY WORKROOM RECEPTACLES	20	1		1080	180						2	20	FACULTY BREAKROOM COFFEE...	122
123	FACULTY BREAKROOM MICROWAVE	20	1				360	180							124
125	FACULTY BREAKROOM MICROWAVE	20	1						180	360		1	20	FACULTY BREAKROOM MICROWAVE	126
127	FACULTY BREAKROOM GARBAGE...	20	1		360	360						1	20	FACULTY BREAKROOM DISHWASHER...	128
129	FACULTY BREAKROOM RECEPTACLES	20	1				720	360				1	20	FAC CORR N COPIER	130
131	Receptacle ZONE 3-107 479	20	1						500	500		1	20	Receptacle ZONE 3-106 456	132
133	Receptacle ZONE 3-105 455	20	1		500	500						1	20	Receptacle ZONE 3-95 283	134
135	SPARE	20	1	--			0	0			--	1	20	SPARE	136
137	SPARE	20	1	--					0	0	--	1	20	SPARE	138
139	SPARE	20	1	--	0	0					--	1	20	SPARE	140
141	SPARE	20	1	--			0	0			--	1	20	SPARE	142
143	SPARE	20	1	--					0	0	--	1	20	SPARE	144
145	SPARE	20	1	--	0	0					--	1	20	SPARE	146
147	SPACE	--	--	--			0	0			--	--	--	SPACE	148
149	SPACE	--	--	--					0	0	--	--	--	SPACE	150
151	SPACE	--	--	--	0	0					--	--	--	SPACE	152
153	SPACE	--	--	--			0	0			--	--	--	SPACE	154
155	SPACE	--	--	--					0	0	--	--	--	SPACE	156
157	SPACE	--	--	--	0	0					--	--	--	SPACE	158
159	SPACE	--	--	--			0	0			--	--	--	SPACE	160
161	SPACE	--	--	--					0	0	--	--	--	SPACE	162
163	SPACE	--	--	--	0	0					--	--	--	SPACE	164
165	SPACE	--	--	--			0	0			--	--	--	SPACE	166
167	SPACE	--	--	--					0	0	--	--	--	SPACE	168
				Total Load:	34000 VA		35260 VA		39160 VA						
				Total Amps:	283 A		295 A		328 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	108420 VA	54.61%	59210 VA		
				Total Conn. Load:	108420 VA
				Total Est. Demand:	59210 VA
				Total Conn. Current:	301 A
				Total Est. Demand...	164 A

Branch Panel: L0A — NEW

Location: | Volts: 120/208 Wye | A.I.C. Rating: 10000
Supply From: T0A | Phases: 3 | Mains Type: MLO
Mounting: SURFACE | Wires: 4 | Mains Rating: 100 A
Enclosure: NEMA 1

Notes:

CKT	Load Name	CB	P	Wire	A		B		C		Wire	P	CB	Load Name	CKT
1	GROSS ANATOMY PREP GFCI...	20	1		1080	500						2	20	DRYER GROSS ANATOMY DRYER	2
3	HOUSEKEEPING OFFICE...	20	1				1440	500							4
5	GROSS ANATOMY RECEPTACLES	20	1						1800	1800		1	20	BASEMENT CORRIDOR RECEPTACLES	6
7	UNDERCOUNTER FRIDGE ANATOMY...	20	1		360	1800						1	20	ANATOMY WORKROOM RECEPTACLES	8
9	ANATOMY OFFICE QUAD	20	1				360	1440				1	20	ANATOMY OFFICE RECEPTACLES	10
11	BSMT RESTROOM RECEPTACLES	20	1						1440	360		1	20	BASEMENT LOBBY QUAD	12
13	MAIN ELEC ROOM RECEPTACLES	20	1		720	720						1	20	EMER ELEC RECEPTACLE	14
15	HOUSEKEEPING OFFICE QUAD	20	1				360	1440				1	20	MDF ROOM RECEPTACLES	16
17	HOUSEKEEPING OFFICE...	20	1						360	360		1	20	HOUSEKEEPING OFFICE...	18
19	FIRE PUMP ROOM RECEPTACLE	20	1		360	720						1	20	HOUSEKEEPING OFFICE...	20
21	SECURITY OFFICE QUAD	20	1				360	1440				1	20	SECURITY OFFICE RECEPTACLES	22
23	SECURITY OFFICE TVS	20	1						720	360		1	20	SECURITY OFFICE QUAD	24
25	MAIL ROOM REFRIGERATOR	20	1		360	900						1	20	SECURITY OFFICE RECEPTACLES	26
27	MAIL ROOM RECEPTACLES	20	1				1440	360				1	20	MAIL ROOM QUAD	28
29									1177	180		2	20	GROSS ANATOMY PREP DRYER	30
31	VP-1	20	3		1177	180									32
33							1177	1177							34
35	SPARE	20	1	--					0	1177		3	20	AC-1	36
37	SPARE	20	1	--	0	1177									38
39	SPARE	20	1	--			0	0			--	1	20	SPARE	40
41	SPARE	20	1	--					0	0	--	1	20	SPARE	42
43	SPARE	20	1	--	0	0					--	1	20	SPARE	44
45	SPARE	20	1	--			0	0			--	1	20	SPARE	46
47	SPARE	20	1	--					0	0	--	1	20	SPARE	48
49	SPARE	20	1	--	0	0					--	1	20	SPARE	50
51	SPARE	20	1	--			0	0			--	1	20	SPARE	52
53	SPARE	20	1	--					0	0	--	1	20	SPARE	54
55	SPARE	20	1	--	0	0					--	1	20	SPARE	56
57	SPARE	20	1	--			0	0			--	1	20	SPARE	58
59	SPARE	20	1	--					0	0	--	1	20	SPARE	60
61	SPACE	--	--	--	0	0					--	--	--	SPACE	62
63	SPACE	--	--	--			0	0			--	--	--	SPACE	64
65	SPACE	--	--	--					0	0	--	--	--	SPACE	66
67	SPACE	--	--	--	0	0					--	--	--	SPACE	68
69	SPACE	--	--	--			0	0			--	--	--	SPACE	70
71	SPACE	--	--	--					0	0	--	--	--	SPACE	72
73	SPACE	--	--	--	0	0					--	--	--	SPACE	74
75	SPACE	--	--	--			0	0			--	--	--	SPACE	76
77	SPACE	--	--	--					0	0	--	--	--	SPACE	78
79	SPACE	--	--	--	0	0					--	--	--	SPACE	80
81	SPACE	--	--	--			0	0			--	--	--	SPACE	82
83	SPACE	--	--	--					0	0	--	--	--	SPACE	84
				Total Load:	10053 VA		11493 VA		9733 VA						
				Total Amps:	84 A		96 A		81 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	31280 VA	65.98%	20640 VA		
				Total Conn. Load:	31280 VA
				Total Est. Demand:	20640 VA
				Total Conn. Current:	87 A
				Total Est. Demand...	57 A

Branch Panel: L0B — NEW

Location: | Volts: 120/208 Wye | A.I.C. Rating: 10000
Supply From: T0B | Phases: 3 | Mains Type: MLO
Mounting: SURFACE | Wires: 4 | Mains Rating: 100 A
Enclosure: NEMA 1

Notes:

CKT	Load Name	CB	P	Wire	A		B		C		Wire	P	CB	Load Name	CKT
1	ANATOMY OFF 3 RECEPTACLES	20	1		2580	360						1	20	ANATOMY OFF 3 QUAD	2
3	ANATOMY OFF 2 RECEPTACLES	20	1				1260	360				1	20	ANATOMY OFF 2 QUAD	4
5	BSMT ELEC/LOBBY RECEPTACLES	20	1						2160	1080		1	20	NEUROANATOMY RECEPTACLES	6
7	NEUROANATOMY RECEPTACLES	20	1		1080	1440						1	20	NEUROANATOMY RECEPTACLES	8
9	NEUROANATOMY QUAD	20	1				360	1440				1	20	NEUROANATOMY RECEPTACLES	10
11	NEUROANATOMY QUAD	20	1						360	1440		1	20	NEUROANATOMY RECEPTACLES	12
13	NEUROANATOMY QUAD	20	1		360	1440						1	20	NEUROANATOMY RECEPTACLES	14
15	NEUROANATOMY QUAD	20	1				360	360				1	20	NEUROANATOMY QUAD	16
17	NEUROANATOMY QUAD	20	1						360	360		1	20	NEUROANATOMY QUAD	18
19	NEUROANATOMY FLOOR BOX	20	1		500	500						1	20	NEUROANATOMY FLOOR BOX	20
21	NEUROANATOMY TVS	20	1				720	360				1	20	NEUROANATOMY QUAD	22
23	NEUROANATOMY RECEPTACLES	20	1						1440	360		1	20	NEUROANATOMY QUAD	24
25	NEUROANATOMY RECEPTACLES	20	1		1440	360						1	20	NEUROANATOMY QUAD	26
27	NEUROANATOMY RECEPTACLES	20	1				1440	360				1	20	NEUROANATOMY QUAD	28
29	NEUROANATOMY RECEPTACLES	20	1						1440	1080		1	20	NEURO PREP GFCI RECEPTACLES	30
31	NEURO PREP FRIDGE (4)	20	1		1000	360						1	20	CADAVER STORAGE RECEPTACLES	32
33	CADAVER STORAGE RECEPTACLES	20	1				360	3000				1	20	CADAVER STORAGE RECEPTACLES	34
35	CADAVER STORAGE GFCI QUAD	20	1						180	180		1	20	CADAVER STORAGE GFCI QUAD	36
37	CADAVER STORAGE RECEPTACL	20	1		360	1440						1	20	GROSS ANATOMY RECEPTACLES	38
39	GROSS ANATOMY QUAD	20	1				360	1440				1	20	GROSS ANATOMY RECEPTACLES	40
41	GROSS ANATOMY QUAD	20	1						360	360		1	20	GROSS ANATOMY QUAD	42
43	GROSS ANATOMY RECEPTACLES	20	1		1440	360						1	20	GROSS ANATOMY QUAD	44
45	GROSS ANATOMY RECEPTACLES	20	1				1440	360				1	20	GROSS ANATOMY QUAD	46
47	GROSS ANATOMY RECEPTACLES	20	1						1440	360		1	20	GROSS ANATOMY QUAD	48
49	GROSS ANATOMY RECEPTACLES	20	1		1440	360						1	20	GROSS ANATOMY QUAD	50
51	GROSS ANATOMY SOUTH TV	20	1				720	360				1	20	GROSS ANATOMY QUAD	52
53	GROSS ANATOMY QUAD	20	1						360	360		1	20	GROSS ANATOMY QUAD	54
55	GROSS ANATOMY QUAD	20	1		360	500						1	20	GROSS ANATOMY FLOOR BOX	56
57	GROSS ANATOMY FLOOR BOX	20	1				500	500				1	20	GROSS ANATOMY CEILING...	58
59	GROSS ANATOMY CEILING...	20	1						500	500		1	20	GROSS ANATOMY CEILING...	60
61	GROSS ANATOMY CEILING...	20	1		500	500						1	20	GROSS ANATOMY CEILING...	62
63	GROSS ANATOMY CEILING...	20	1				500	500				1	20	GROSS ANATOMY CEILING...	64
65	GROSS ANATOMY CEILING...	20	1						500	500		1	20	GROSS ANATOMY CEILING...	66
67	GROSS ANATOMY CEILING...	20	1		500	500						1	20	GROSS ANATOMY CEILING...	68
69	GROSS ANATOMY CEILING...	20	1				500	1080				1	20	GROSS ANATOMY RECEPTACLES	70
71	GROSS ANATOMY RECEPTACLES	20	1						1080	1440		1	20	BSMT LOBBY RECEPTACLES	72
73	GROSS ANATOMY RECEPTACLES	20	1		1440	360						1	20	GROSS ANATOMY QUAD	74
75	GROSS ANATOMY RECEPTACLES	20	1				1440	360				1	20	GROSS ANATOMY QUAD	76
77	GROSS ANATOMY RECEPTACLES	20	1						1440	360		1	20	GROSS ANATOMY QUAD	78
79	GROSS ANATOMY RECEPTACLES	20	1		1440	360						1	20	GROSS ANATOMY QUAD	80
81	GROSS ANATOMY RECEPTACLES	20	1				1440	360				1	20	GROSS ANATOMY QUAD	82
83	GROSS ANATOMY RECEPTACLES	20	1						1440	360		1	20	GROSS ANATOMY QUAD	84
85	ELEVATOR SUMP PUMP CONTROLLER	20	1		860	500						1	20	GWH-1-1	86
87	GWH-1-2	20	1				500	500				1	20	GWH-1-3	88
89	GWH-1-4	20	1						500	500		1	20	GWH-1-5	90
91	GWH-1-6	20	1		500	250						2	20	RC-1-1	92
93	RC-1-2	20	2				250	250							94
95									250	250		2	20	RC-1-3	96
97	RC-1-4	20	2		250	250									98
99							250	250				2	20	RC-1-5	100
101	RC-1-6	20	2						250	250					102
103					250	244						1	20	ELEVTAOR PIT GFI AND LIGHT FIXTURE	104
				Total Load:	26384 VA		24240 VA		23800 VA						
				Total Amps:	220 A		203 A		198 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting	64 VA	125.00%	80 VA		
Power	6500 VA	100.00%	6500 VA	Total Conn. Load:	74424 VA
Receptacle	67860 VA	57.37%	38930 VA	Total Est. Demand:	45510 VA
				Total Conn. Current:	207 A
				Total Est. Demand...	126 A

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COLLEGE OF Osteopathic Medicine AT THE CHEROKEE NATION
TAHLEQUAH, OKLAHOMA

KEY PLAN:
02 01

PROJECT PHASE:
95% CONSTRUCTION DOCUMENTS

REVISIONS		
#	DATE	DESCRIPTION

DATE: 07-26-19
JOB NUMBER: 17-13
SHEET NUMBER: E3.04
PANEL SCHEDULES

Branch Panel: L1B

NEW

Location:
Supply From: T1B
Mounting: SURFACE
Enclosure: NEMA 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10000
Mains Type: MLO
Mains Rating: 200 A

Notes:

CKT	Load Name	CB	P	Wire	A		B		C		Wire	P	CB	Load Name	CKT
1	OMM USB RECEPTACALS	20	1		1440	1440						1	20	OMM USB RECEPTACALS	2
3	OMM GFCI QUAD	20	1				180	180				1	20	OMM GFCI QUAD	4
5	OMM USB RECEPTACALS	20	1						1800	1800		1	20	OMM USB RECEPTACALS	6
7	OMM FLOOR BOX	20	1		500	500						1	20	OMM FLOOR BOX	8
9	OMM FLOOR BOX	20	1				500	500				1	20	OMM FLOOR BOX	10
11	OMM FLOOR BOX	20	1						500	500		1	20	OMM FLOOR BOX	12
13	OMM CEILING RECEPTACLES	20	1		2500	500						1	20	OMM FLOOR BOX	14
15	OMM FLOOR BOX	20	1				500	180				1	20	OMM GFCI QUAD	16
17	OMM GFCI QUAD	20	1						180	1440		1	20	OMM USB RECEPTACALS	18
19	OMM TV/RECEPTACLES	20	1		1440	360						1	20	OMM QUAD	20
21	OMM QUAD	20	1				360	500				1	20	OMM FLOOR BOX	22
23	OMM STOR 1 RECEPTACLES	20	1						2160	1800		1	20	GS 7 USB RECEPTALES	24
25	GS 7 USB RECEPTACLES	20	1		1800	1800						1	20	GS 6 USB RECEPTACLES	26
27	GS 7 QUAD	20	1				360	500				1	20	GS 7 FLOOR BOX	28
29	GS 6 FLOOR BOX	20	1						500	1800		1	20	GS 6 USB RECEPTACLES	30
31	GS 6 QUAD	20	1		360	2160						1	20	VR SIM ROOM USB RECEPTACLES	32
33	VR SIM ROOM TV/USB RECEPTACLES	20	1				1940	500				1	20	VR SIM ROOM FLOOR BOX	34
35	VR SIM ROOM FLOOR BOX	20	1						500	1620		1	20	BOOKSTOR RECEPTACLES	36
37	BOOKSTORE REFRIGERATOR (4)	20	1		432	1890						1	20	BOOKSTORE ICE MACHINE (4)	38
39	VESTIBULE MICROWAVE	20	1				360	360				1	20	VESTIBULE MICROWAVE	40
41	BOOKSTORE FOOD FREEZER (4)	20	1						1320	1656		1	20	BOOKSTORE REFRIGERATOR (4)	42
43	BOOKSTORE FLOOR...	20	1		1220	1800						1	20	L1 RESTROOM AND DRESSING	44
45	SIM DEBRIEF 1 RECEPTACLES	20	1				2160	500				1	20	SIM DEBRIEF 1 FLOOR BOX	46
47	SIM DEBRIEF 1 FLOOR BOX	20	1						360	1220		1	20	PERSONAL HEALTH RM	48
49	UNDERCOUNTER FRIDGE MED ALCO...	20	1		360	180						2	20	SOILED ROOM DRYER	50
51	SOILED ROOM DISHWASHER	20	1				360	180							52
53	SOILED ROOM WASHER	20	1						360	540		1	20	SOILED RECEPTALES	54
55	SIM CUBBIES COPIER	20	1		360	500						1	20	SIM DEBRIEF 2 FLOOR BOX	56
57	SIMULATION CORRIDOR RECEPTACLES	20	1				1980	1440				1	20	CLEAN AND STORAGE RECEPTACLE	58
59	SIM DEBRIEF 2 QUAD	20	1						360	1800		1	20	SIM DEBRIEF 2 TV/RECEPTACLE	60
61	SIM OFF QUAD	20	1		360	1080						1	20	SIM OFF RECEPTACLES	62
63	SIMULATION CORRIDOR COFFEE...	20	2				180	1500				1	20	MICROWAVE SIMULATION CORRIDOR	64
65									180	1800		1	20	SIMULATION CORRIDOR RECEPTACLES	66
67	SIMULATION CORRIDOR RECEPTACLES	20	1		1080	360						1	20	UNDERCOUONTER FRIDGE MED...	68
69	MED SURG HEADWALL UNIT	20	1				360	360				1	20	MED SURG HEADWALL UNIT	70
71	MED SURG HEADWALL UNIT	20	1						360	720		1	20	MED SURG HEADWALL UNIT	72
73	MED SURG QUAD	20	1		360	1800						1	20	MED SURG RECEPTACLES	74
75	MED SURG QUAD	20	1				360	900				1	20	MED SURG RECEPTACLES	76
77	MED SURG TV	20	1						360	1800		1	20	MED SURG OBS RECEPTACLES	78
79	MED SURG CONTROL RECEPTACLES	20	1		1800	360						1	20	MED SURG CONTROL COMPUTER	80
81	MED SURG CONTROL COMPUTER	20	1				360	360				1	20	MED SURG CONTROL COMPUTER	82
83	ER HEADWALL UNIT	20	1						360	360		1	20	ER HEADWALL UNIT	84
85	ER HEADWALL UNIT	20	1		720	360						1	20	ER HEADWALL UNIT	86
87	ER HEADWALL UNIT	20	1				360	360				1	20	ER HEADWALL UNIT	88
89	ER HEADWALL UNIT	20	1						720	360		1	20	ER HEADWALL UNIT	90
91	ER QUAD	20	1		360	360						1	20	ER QUAD	92
93	ER TV	20	1				360	1440				1	20	ER RECEPTACLES	94
95	ER RECEPTACLES	20	1						1260	360		1	20	ER TV	96
97	ER CONTROL COMPUTER	20	1		360	360						1	20	ER CONTROL COMPUTER	98
99	ER CONTROL COMPUTER	20	1				360	1800				1	20	ER CONTROL RECEPTACLES	100
101	ER CONTROL COMPUTER	20	1						360	720		1	20	MATERNITY HEADWALL UNIT	102
103	MATERNITY HEADWALL UNIT	20	1		720	720						1	20	MATERNITY HEADWALL UNIT	104
105	MATERNITY HEADWALL UNIT	20	1				360	360				1	20	MATERNITY HEADWALL UNIT	106
107	MATERNITY HEADWALL UNIT	20	1						720	720		1	20	MATERNITY HEADWALL UNIT	108
109	MATERNITY TV	20	1		360	900						1	20	MATERNITY RECEPTACLES	110
111	MATERNITY QUAD	20	1				360	1800				1	20	MATERNITY RECEPTACLES	112
113	MATERNITY CHILD HEADWALL UNIT	20	1						720	720		1	20	MATERNITY CHILD HEADWALL UNIT	114
115	MATERNITY QUAD	20	1		360	360						1	20	MATERNITY TV	116
117	MATERNITY SCONE LIGHTS	20	1				720	2160				1	20	MATERNITY OBS RECEPTACLES	118
119	MATERNITY CONTROL COMPUTER	20	1						360	360		1	20	MATERNITY CONTROL COMPUTER	120
121	MATERNITY CONTROL RECEPTACLES	20	1		1080	360						1	20	PEDIATRIC HEADWALL UNIT	122
123	PEDIATRIC HEADWALL UNIT	20	1				360	360				1	20	PEDIATRIC HEAD WALL UNIT	124
125	PEDIATRIC HEADWALL UNIT	20	1						360	360		1	20	PEDIATRIC TV	126
127	PEDIATRIC RECEPTACLES	20	1		1800	360						1	20	PEDIATRIC QUAD	128
129	PEDIATRIC RECEPTACLES	20	1				900	360				1	20	PEDIATRIC CONTROL COMPUTER	130
131	PEDIATRIC CONTROL RECEPTACLES	20	1						1080	360		1	20	PEDIATRIC CONTROL COMPUTER	132
133	PEDIATRIC COMPUTER	20	1		360	360						1	20	PEDIATRIC CONTROL COMPUTER	134
135	PEDIATRIC HEADWALL UNIT	20	1				360	360				1	20	PEDIATRIC HEADWALL UNIT	136
137	PEDIATRIC HEADWALL UNIT	20	1						360						138
139															140
141															142
143															144
145															146
147															148
149															150
151															152
153															154
155															156
157															158
159															160
161															162
163															164
165															166
167															168
				Total Load:	39002 VA	31060 VA	38056 VA								
				Total Amps:	334 A	259 A	326 A								

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Power	9072 VA	100.00%	9072 VA		
Receptacle	99046 VA	55.05%	54523 VA	**Total Conn. Load:**	108118 VA
				Total Est. Demand:	63595 VA
				Total Conn. Current:	300 A
				Total Est. Demand...	177 A

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SHEET NUMBER:

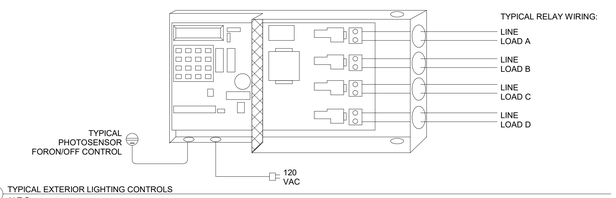
E3.05

PANEL SCHEDULES

STANDARD RELAY INFORMATION

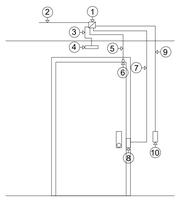
20A 120/277VAC SINGLE POLE NORMALLY OPEN RELAYS.
NUBER OF RELAYS AS REQUIRED.
10AWG MAXIMUM WIRE SIZE

EATON GREENGATE LITE KEEPER SERIES WITH
PHOTOSENSOR OR EQUAL.

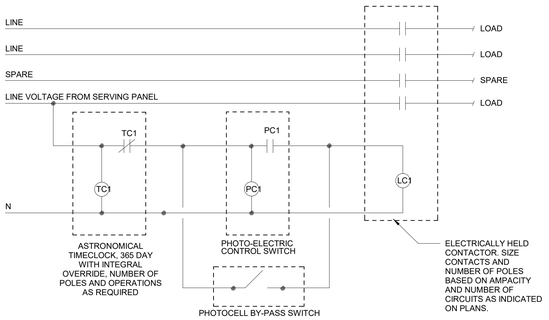


3 TYPICAL EXTERIOR LIGHTING CONTROLS
N.T.S.

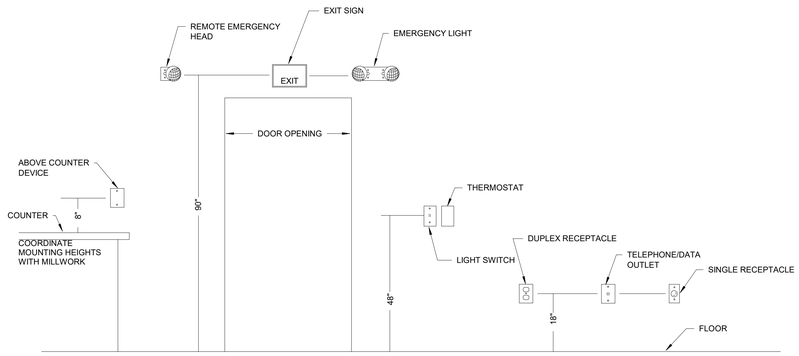
NOTES	
1	MAKE-UP BOX
2	ACCESS CONTROL COMPOSITE CABLE
3	REX CABLE 22/4 UNSHIELDED
4	REX MOTION DETECTOR
5	DPS CABLE 22/2 UNSHIELDED
6	DOOR POSITION SWITCH
7	LOCK POWER CABLE 18/2 UNSHIELDED
8	STRIKE LOCK
9	CARD READER CABLE 22/6 SHIELDED WITH DRAIN
10	CARD READER



4 DOOR TYPICAL- SINGLE DOOR WITH STRIKE LOCK
NTS



2 TYPICAL LIGHTING CONTACTOR
N.T.S.



1 TYPICAL MOUNTING HEIGHT
N.T.S.

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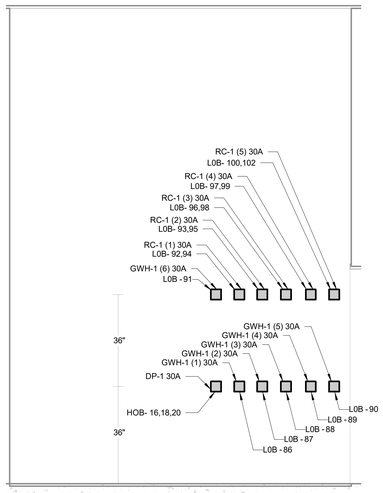
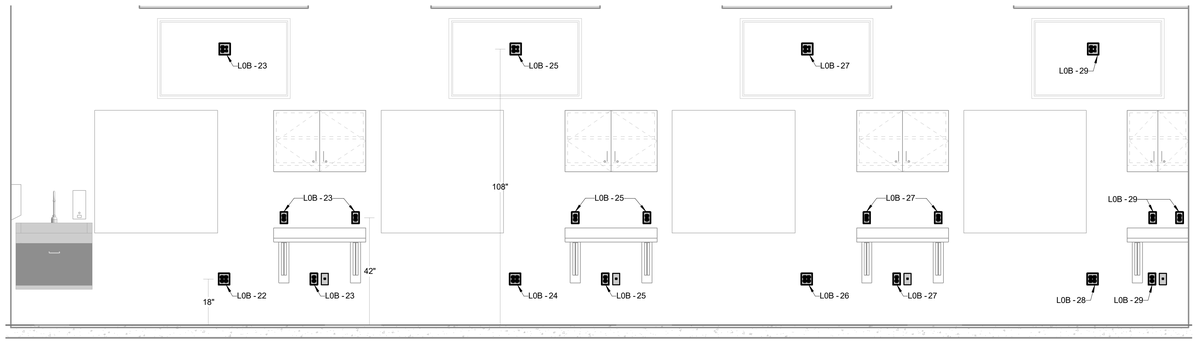
ELECTRICAL DETAILS



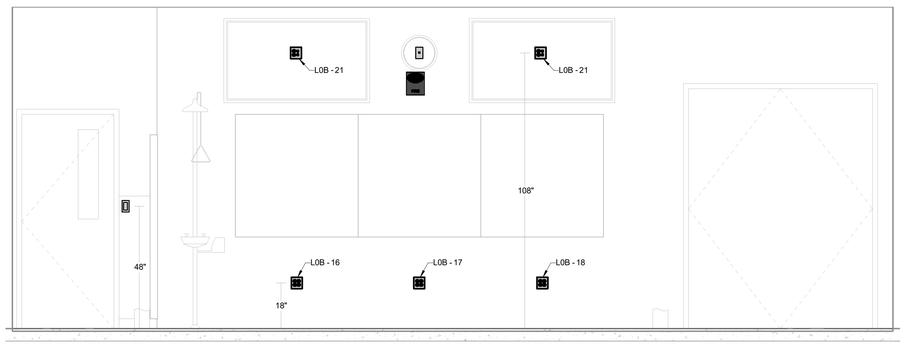
4 BSMT MECH SOUTH WALL

1/2" = 1'-0"



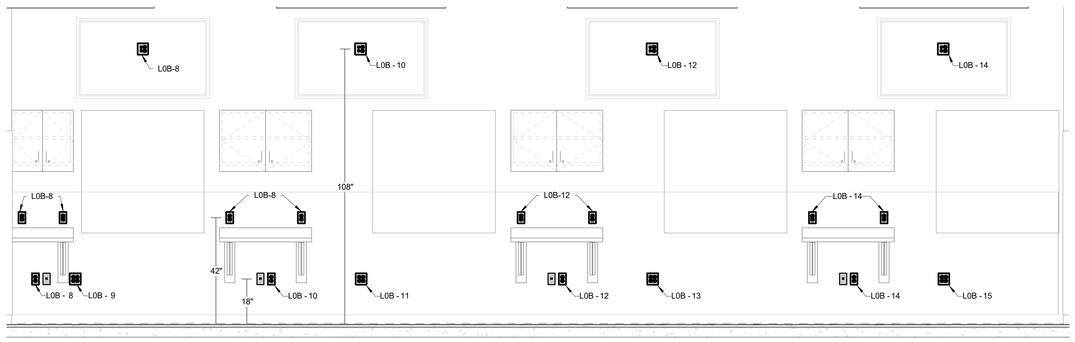
3 NEUROANATOMY WEST WALL

1/2" = 1'-0"



2 NEUROANATOMY SOUTH WALL

1/2" = 1'-0"



1 NEUROANATOMY EAST WALL

1/2" = 1'-0"

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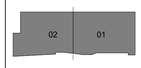

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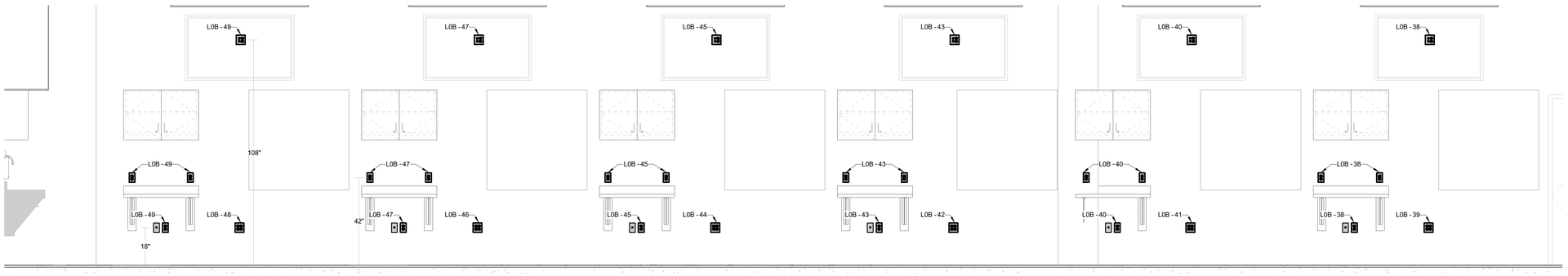
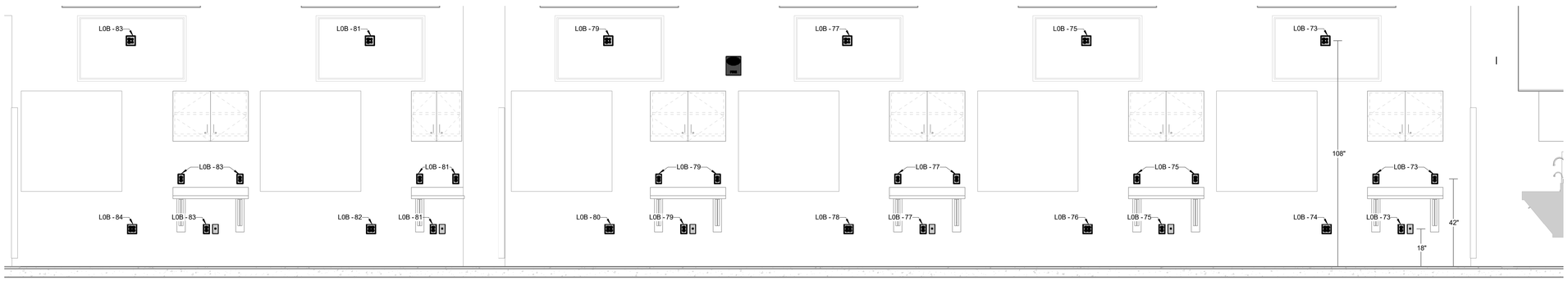
NEUROANATOMY LAB AND BASEMENT ELEVATIONS



2 GROSS ANATOMY EAST WALL

1/2" = 1'-0"



1 GROSS ANATOMY WEST WALL

1/2" = 1'-0"

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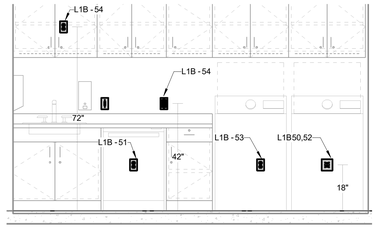
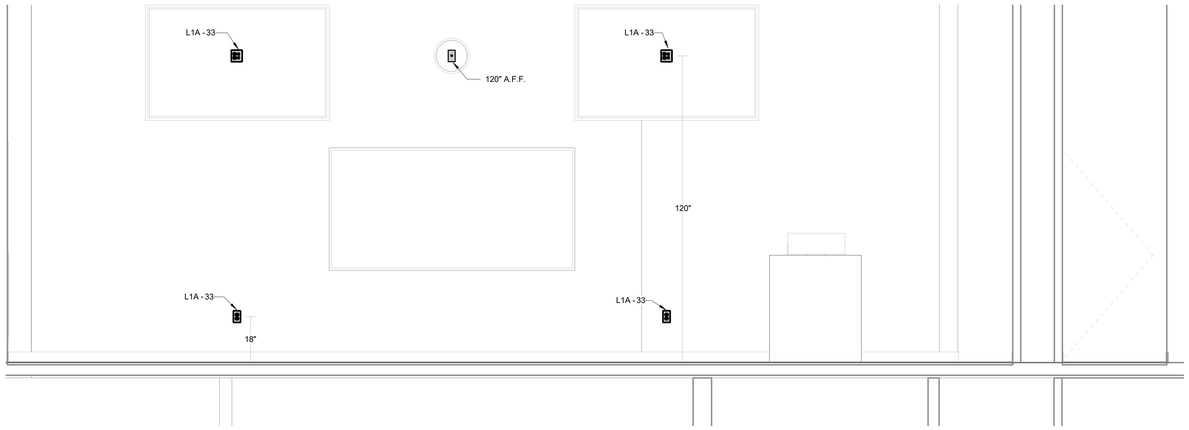
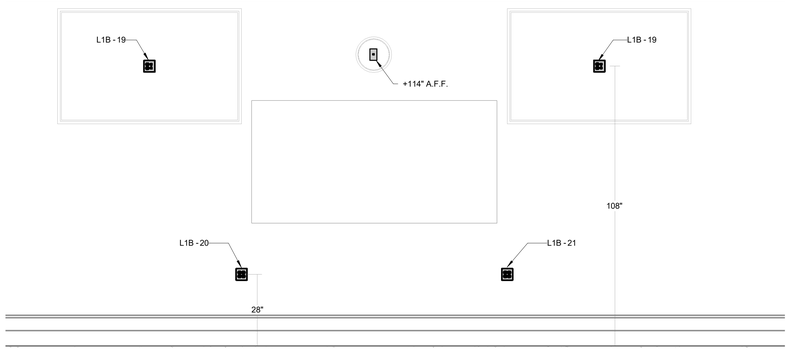
GROSS ANATOMY LAB ELEVATIONS



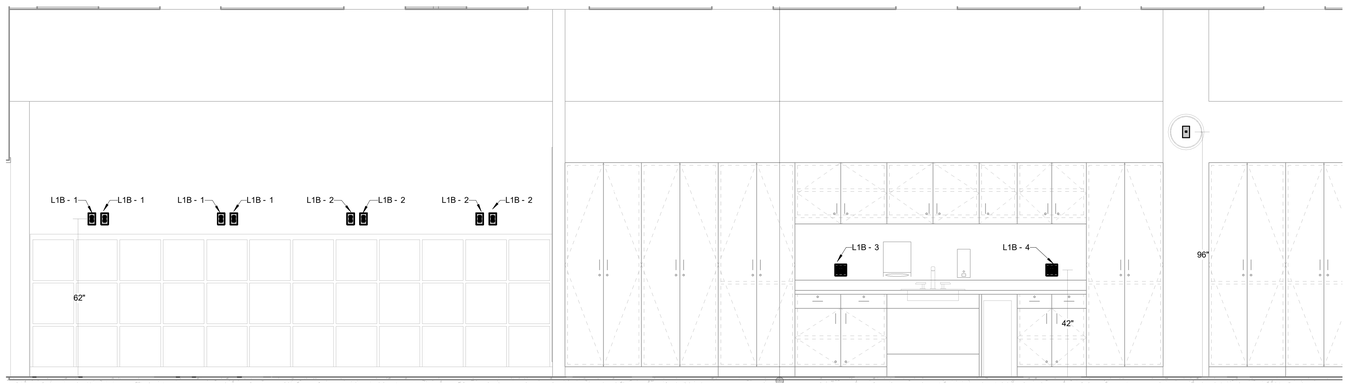
4 **SOILED EAST ELEV**
1/2" = 1'-0"



3 **LECTURE HALL EAST ELEVATION**
1/2" = 1'-0"



2 **OMM LAB EAST WALL**
1/2" = 1'-0"



1 **OMM LAB SOUTH WALL**
1/2" = 1'-0"

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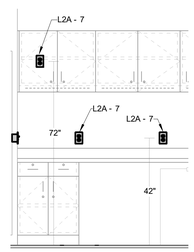
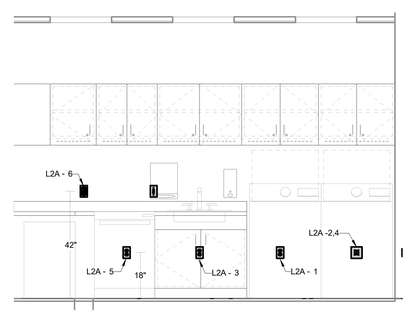
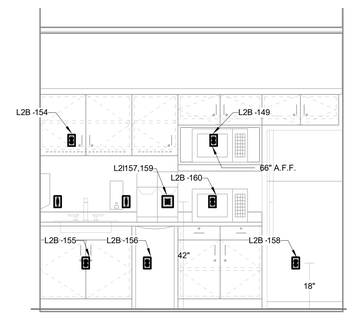
LEVEL 1 ELEVATIONS



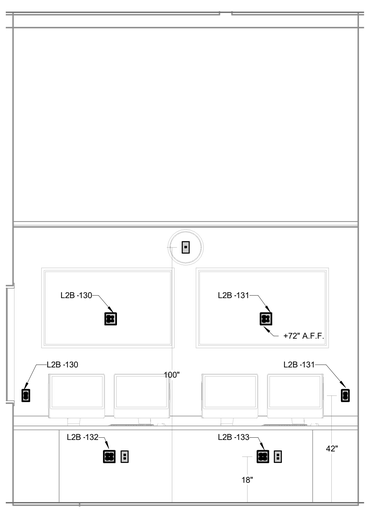
7 CE STORAGE NORTH ELEV
1/2" = 1'-0"



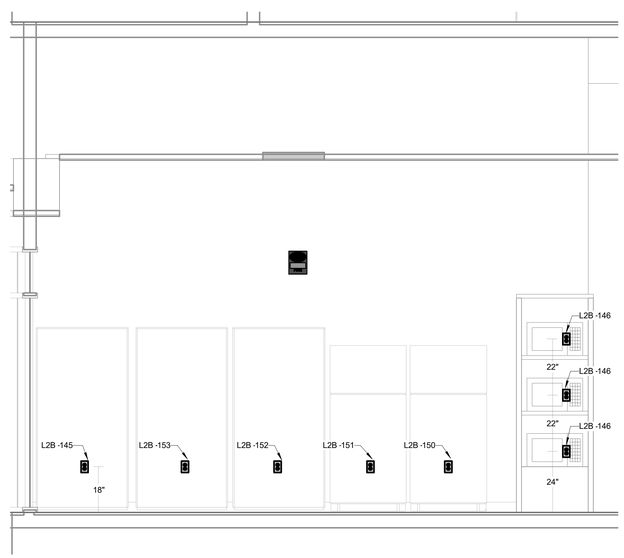
6 CE STORAGE EAST ELEV
1/2" = 1'-0"



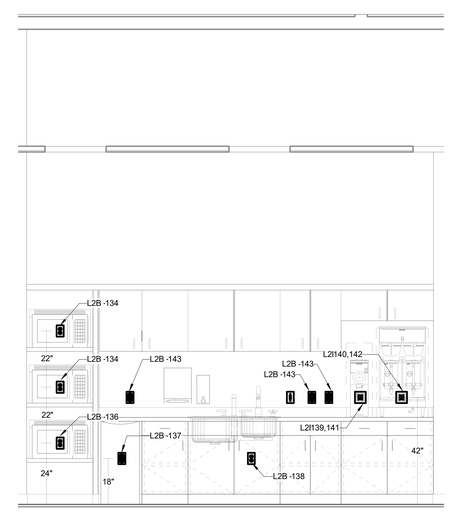
5 SP WAITING & LOUNGE NORTH ELEV
1/2" = 1'-0"



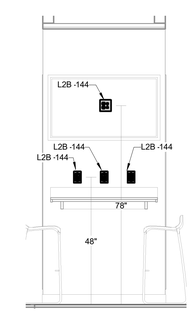
4 CONTROL ROOM WEST ELEV
1/2" = 1'-0"



3 STUDENT LOUNGE NORTH ELEV
1/2" = 1'-0"



2 STUDENT LOUNGE SOUTH ELEV
1/2" = 1'-0"



1 STUDENT LOUNGE WEST ELEV
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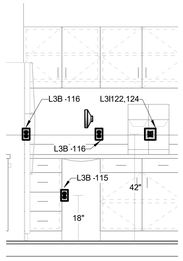
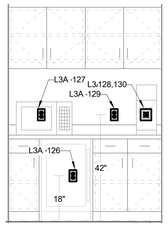
E5.04

LEVEL 2 ELEVATIONS



5 **FACULTY BREAKROOM NORTH ELEV**
1/2" = 1'-0"



4 **SS CIRC SOUTH ELEV**
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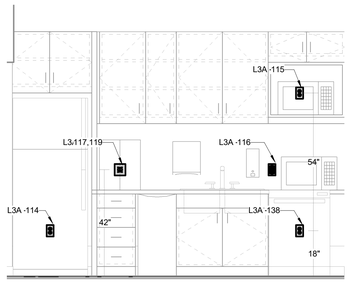

3 **EXECUTIVE KITCHENETTE EAST ELEV**
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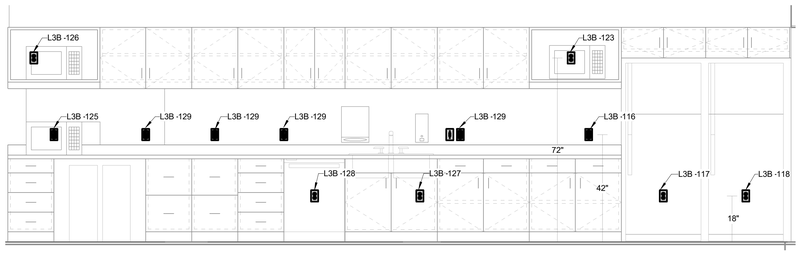
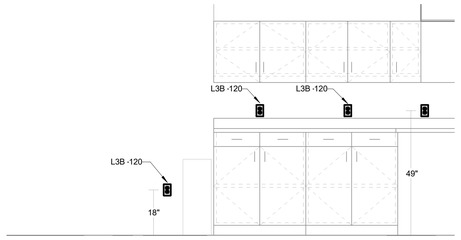
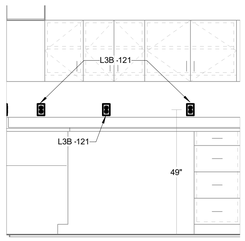


6 **FACULTY BREAKROOM WEST ELEV**
1/2" = 1'-0"



2 **FACULTY WORKROOM WEST ELEV**
1/2" = 1'-0"



1 **FACULTY WORKROOOM NORTH ELEV**
1/2" = 1'-0"

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PROJECT NO. 18163R

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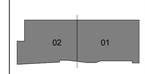
KEY PLAN:



PROJECT PHASE:

95% CONSTRUCTION DOCUMENTS

REVISIONS:

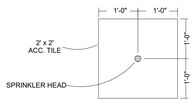
#	DATE	DESCRIPTION

DATE:	JOB NUMBER:
07-26-19	17-13

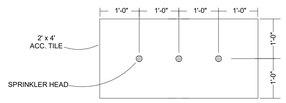
SHEET NUMBER:

E5.05

LEVEL 3 ELEVATIONS



1 CENTER LINE OF 2' TILE DETAIL
NOT TO SCALE



2 CENTER LINE OF 4' TILE DETAIL
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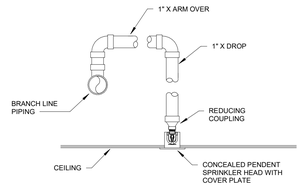
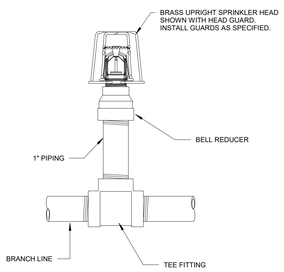
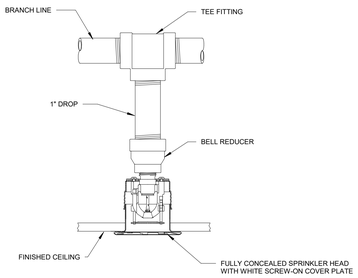


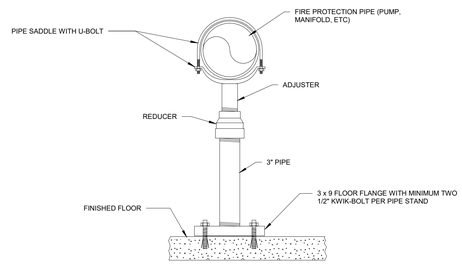
3 RETURN BEND DETAIL
NOT TO SCALE:



4 UPRIGHT SPRINKLER HEAD ON 1" SPRIG
NOT TO SCALE



5 CONCEALED SPRINKLER HEAD DETAIL
NOT TO SCALE



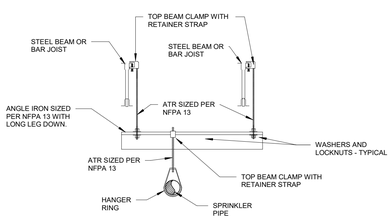
6 ADJUSTABLE PIPE STAND WITH U-BOLT
NOT TO SCALE

ADJUSTABLE PIPE STANDS:

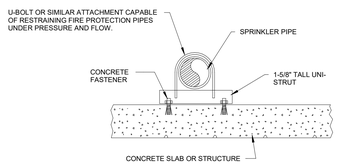
NFPA 13 REQUIRES THAT PIPE STANDS BE "APPROVED". AS SUCH, COMMERCIALLY MANUFACTURED, ADJUSTABLE PIPE STANDS WITH U-BOLTS HAVE BEEN SPECIFIED AND SHOWN HEREIN. UNDER NO CIRCUMSTANCES SHALL 'HOMEMADE', NON-APPROVED PIPE STANDS BE ACCEPTED OR TOLLERATED. ADDITIONALLY, NFPA REQUIRES THE BUILDING TO SUPPORT THE FIRE PROTECTION SYSTEM(S) AND IT SHALL NOT BE PERMISSABLE TO ALLOW UNDERGROUND LEAD-IN'S, SUCH AS FOR THE FIRE MAIN AND FDC LINES, TO BEAR THE LOAD OF THE HORIZONTAL BACKFLOW PREVENTION ASSEMBLY, MANIFOLD OR RISERS. AS A MINIMUM PROVIDE THE QUANTITY OF PIPE STANDS SHOWN IN THESE DETAILS.

FIRE PROTECTION NOTES:

1. THE SUCCESSFUL FIRE PROTECTION CONTRACTOR SHALL PROVIDE THE ENGINEER OF RECORD WITH A PRELIMINARY PUNCH LIST AND DRAWING PRIOR TO COMPLETION OF CONSTRUCTION. ALL ITEMS NOTED SHALL BE ADDRESSED BY THE CONTRACTOR PRIOR TO REQUESTING PUNCH LIST BY THE ENGINEER OF RECORD.
2. ALL PIPE, DEVICES, AND INSTALLATION SHALL FULLY COMPLY WITH NFPA 13 AND ALL REQUIRED AUTHORITIES HAVING JURISDICTION. REFER TO NOTES ON DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. REFER TO STRUCTURAL AND ARCHITECTURAL DRAWINGS FOR BUILDING DETAILS.
3. PROVIDE A COMPLETE, HYDRAULICALLY CALCULATED, FULLY AUTOMATIC WET PIPE SPRINKLER SYSTEM THROUGHOUT THE BUILDING. FIRE PROTECTION CONTRACTOR SHALL INSTALL THE FIRE PROTECTION SYSTEM IN ACCORDANCE WITH ALL APPLICABLE NFPA STANDARDS, JOB SPECIFICATIONS AND LOCAL CODE REQUIREMENTS.
4. SPRINKLER COVERAGE SHALL NOT EXCEED 225 SQUARE FEET PER HEAD FOR LIGHT HAZARD AREAS. SPRINKLER COVERAGE SHALL NOT EXCEED 130 SQUARE FEET PER HEAD FOR ORDINARY HAZARD AREAS.
5. FIRE PROTECTION SYSTEM(S), PIPING, VALVES AND APPURTENANCES INDICATED ON THE DRAWING ARE DIAGRAMMATIC ONLY IN THAT ALL REQUIRED DEVICES, PIPES, FITTINGS, AND OFFSETS MAY NOT BE SHOWN. FIRE PROTECTION CONTRACTOR SHALL VERIFY EQUIPMENT SELECTIONS, PIPE ROUTING, ETC. FOR CODE COMPLIANCE, ARCHITECTURAL AND STRUCTURAL CONFORMITY. FIRE PROTECTION CONTRACTOR SHOULD THOROUGHLY SURVEY THE PROPERTY AND REVIEW ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL AND PLUMBING (M.E.P.) CONSTRUCTION DOCUMENTS PRIOR TO BID.
6. FIRE PROTECTION SHOP DRAWINGS SHALL HAVE COMPLETE REFLECTED CEILING PLANS INDICATING LOCATION OF EACH SPRINKLER HEAD, AS WELL AS PIPING LAYOUTS. PROVIDE ADDITIONAL SPRINKLER HEADS (OVER CODE MINIMUM), IF REQUESTED BY THE ARCHITECT, TO OBTAIN SYMMETRICAL CEILING LAYOUTS.
7. FIRE PROTECTION SYSTEM SHALL BE COMPLETE WITH BACKFLOW PREVENTER, FIRE DEPARTMENT CONNECTION, STANDPIPES, CONTROL VALVES, SPRINKLER PIPING AND HEADS, ELECTRONIC SUPERVISION AND OTHER APPURTENANCES AS REQUIRED BY NFPA AND AUTHORITIES HAVING JURISDICTION.
8. GENERAL CONTRACTOR SHALL CONDUCT A COORDINATION MEETING WITH THE SUBCONTRACTORS TO ESTABLISH CLEARANCE REQUIREMENTS NEEDED FOR M.E.P.F. WORK PRIOR TO FABRICATION OF THE SPRINKLER SYSTEM. ANY RELOCATION OF FIRE SPRINKLER SYSTEM REQUIRED FOR PROPER INSTALLATION OF M.E.P. SYSTEMS SHALL BE AT THE FIRE PROTECTION CONTRACTOR'S EXPENSE.
9. FIRE PROTECTION CONTRACTOR SHALL BASE BID ON CAREFUL COORDINATION OF ARCHITECTURAL COMPONENTS, MECHANICAL DUCT, MECHANICAL AND PLUMBING PIPING, ELECTRICAL, AND STRUCTURAL SYSTEMS IN THE BUILDING.
10. HYDRAULIC CALCULATIONS SHALL BE BASED ON A WATER FLOW TEST OBTAINED FROM THE CITY OF TAHLEQUAH BY THE FIRE PROTECTION CONTRACTOR. CONTRACTOR SHALL VERIFY FLOW TEST DATA WITH LOCAL AUTHORITIES. IF A CURRENT TEST IS NOT AVAILABLE, CONTRACTOR SHALL CONDUCT A PROPER FLOW TEST PRIOR TO PREPARATION OF SHOP DRAWINGS. PROVIDE A MINIMUM OF 10 PSI SAFETY FACTOR FOR ALL HYDRAULIC CALCULATIONS. PIPE SIZING INDICATED ON THE DRAWINGS IS FOR INFORMATIONAL PURPOSES ONLY. PIPE SIZING SHALL BE ESTABLISHED BY THE FIRE PROTECTION CONTRACTOR. EXCEPTION: STANDPIPES SHALL BE SIZED AS INDICATED ON THE DRAWINGS OR LARGER. NOTE: AVOID SYSTEM PRESSURES EXCEEDING 175 PSI.
11. PROVIDE A DOUBLE CHECK DETECTOR ASSEMBLY TO ISOLATE THE SPRINKLER SYSTEM FROM THE MAIN SUPPLY. COORDINATE REQUIREMENTS WITH THE CITY OF TAHLEQUAH AND THE STATE OF OKLAHOMA.
12. FIRE PROTECTION SYSTEM SHALL INTERFACE WITH THE BUILDING FIRE ALARM SYSTEM. REFER TO ELECTRICAL.
13. ALL CONTROL VALVES SHALL HAVE ELECTRONIC SUPERVISION.
14. SPECIAL CONSIDERATION SHALL BE GIVEN TO AREAS THROUGHOUT THE BUILDING SUCH AS DROPPED SOFFITS, RAISED CEILINGS, FALSE BEAMS, AND LIGHTING SOFFITS THAT NECESSITATE ADDITIONAL SPRINKLER HEADS. REFER TO ARCHITECTURAL DRAWINGS FOR REFLECTED CEILING PLANS AND BUILDING DETAILS.
15. ALL SPRINKLER HEADS FOR LIGHT HAZARD AND ORDINARY HAZARD SHALL BE QUICK RESPONSE.
16. ALL CEILING MOUNTED SPRINKLER HEADS SHALL BE CONCEALED TYPE WITH WHITE COVER PLATES.
17. ALL SPRINKLER HEADS INSTALLED IN EXPOSED STRUCTURE SHALL BE BRASS UPRIGHT,
18. ALL CEILING MOUNTED SPRINKLER HEADS SHALL BE LOCATED IN THE CENTER OF CEILING TILES.
19. PROVIDE SPRINKLER SYSTEM MAIN DRAIN IN ACCORDANCE WITH NFPA 13. PROVIDE VERTICAL DRAIN RISER WHEN SPRINKLER SYSTEM CONTROL VALVE ASSEMBLIES ARE LOCATED IN THE SAME AREA ON MULTIPLE FLOORS.
20. PROVIDE AUXILIARY DRAINS FOR ALL TRAPPED PIPING SECTIONS IN ACCORDANCE WITH NFPA 13.
21. ALL DRAIN PIPING SHALL TERMINATE AT THE EXTERIOR WITH 45 DEGREE ELBOW DOWN. INSTALL THE DRAIN IN A MANNER TO PREVENT FLOODING OR DAMAGE TO LANDSCAPING, AND TO PREVENT WETTING OF WALKWAYS. EXCEPTION: DRAIN PIPING MAY TERMINATE AT INTERIOR FLOOR DRAINS IF THE DRAIN HAS BEEN SIZED APPROPRIATELY. COORDINATE WITH PLUMBING CONTRACTOR FOR LOCATION OF FLOOR DRAIN.
22. INSTALL PIPING HORIZONTALLY AND AT RIGHT ANGLES TO WALLS AND CEILINGS.
23. ALL GROOVED PIPING SHALL BE BLACK SCHEDULE 10 OR BLACK SCHEDULE 40 WITH GROOVED AND WELDED OUTLETS. FITTINGS AND COUPLINGS SHALL BE STANDARD GROOVED.
24. ALL THREADED PIPING SHALL BE BLACK SCHEDULE 40. FITTINGS SHALL BE STANDARD "BLACK" GRADE.
25. ALTERNATIVE STEEL PIPE SCHEDULES ALLOWED BY NFPA 13 ARE NOT ACCEPTABLE ON THIS PROJECT.
26. CPVC PIPING IS NOT ALLOWED ON THIS PROJECT.
27. FIRE PROTECTION CONTRACTOR SHALL PROVIDE PROTECTION FOR SPRINKLER HEADS IN AREAS WHERE THE CEILING AND SURROUNDING AREAS ARE TO BE PAINTED. FIRE PROTECTION CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF SPRINKLER PROTECTION AFTER PAINTING WORK IS COMPLETE. ANY SPRINKLER HEAD WITH PAINT OR TEXTURE OVERSPRAY SHALL BE REPLACED BY THE FIRE PROTECTION CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER.
28. PROVIDE ACCESS PANELS WHERE NECESSARY TO ACCESS FIRE PROTECTION VALVES AND EQUIPMENT FOR TESTING, MAINTENANCE, INSPECTION OR DRAINAGE. ACCESS PANELS SHALL BE RATED TO MATCH THE WALL OR CEILING IN WHICH THEY ARE INSTALLED AND TO BE OF SUFFICIENT SIZE TO FACILITATE WORK, REPAIR OR REPLACEMENT. ACCESS PANELS SHALL BE PROVIDED BY FIRE PROTECTION CONTRACTOR.
29. PROVIDE HEAD GUARDS ON ALL SPRINKLER HEADS AT OR BELOW AN ELEVATION OF 7'-0" AFF, OR THAT OTHERWISE MAY BE SUBJECT TO MECHANICAL DAMAGE, SUCH AS IN THE MECHANICAL ROOMS.
30. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE OWNER'S INFECTIOUS CONTROL RISK GUIDELINES AND/OR INTERIM LIFE SAFETY MEASURES. ALL WORK SHALL BE IN ACCORDANCE WITH OSHA (OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION).
31. FIRE PROTECTION PLANS SHALL BE SUBMITTED AND RECEIVE APPROVAL PRIOR TO FABRICATION BY ALL REQUIRED LOCAL AND STATE AUTHORITIES AS WELL AS THE ARCHITECT AND ENGINEER OF RECORD.



7 TRAPEZE HANGER DETAIL
NOT TO SCALE



8 UNISTRUT SUPPORT DETAIL
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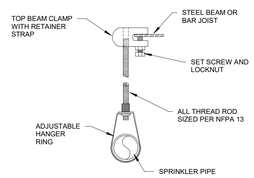
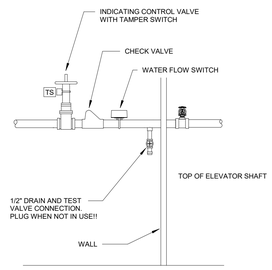


9 TOP BEAM CLAMP HANGER DETAIL
NOT TO SCALE



10 TOP OF ELEVATOR SHAFT DETAIL
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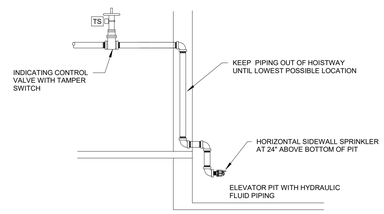

11 ELEVATOR PIT DETAIL
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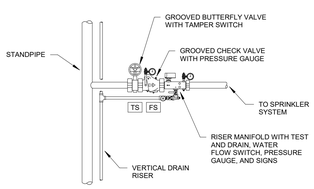
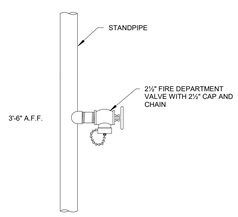


12 SPRINKLER SYSTEM CONTROL VALVE ASSEMBLY DETAIL
NOT TO SCALE:



13 FIRE DEPARTMENT VALVE DETAIL
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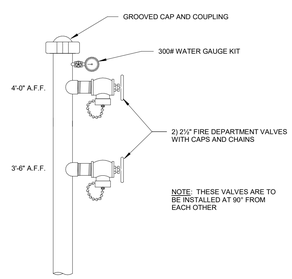
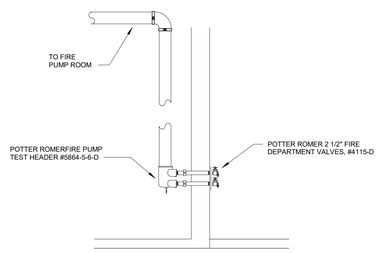


14 TOP OF STANDPIPE DETAIL
NOT TO SCALE:



15 TEST HEADER DETAIL
NOT TO SCALE:

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DOCUMENTS

REVISIONS

#	DATE	DESCRIPTION

DATE: 07-26-19
JOB NUMBER: 17-13
SHEET NUMBER: FP1.00

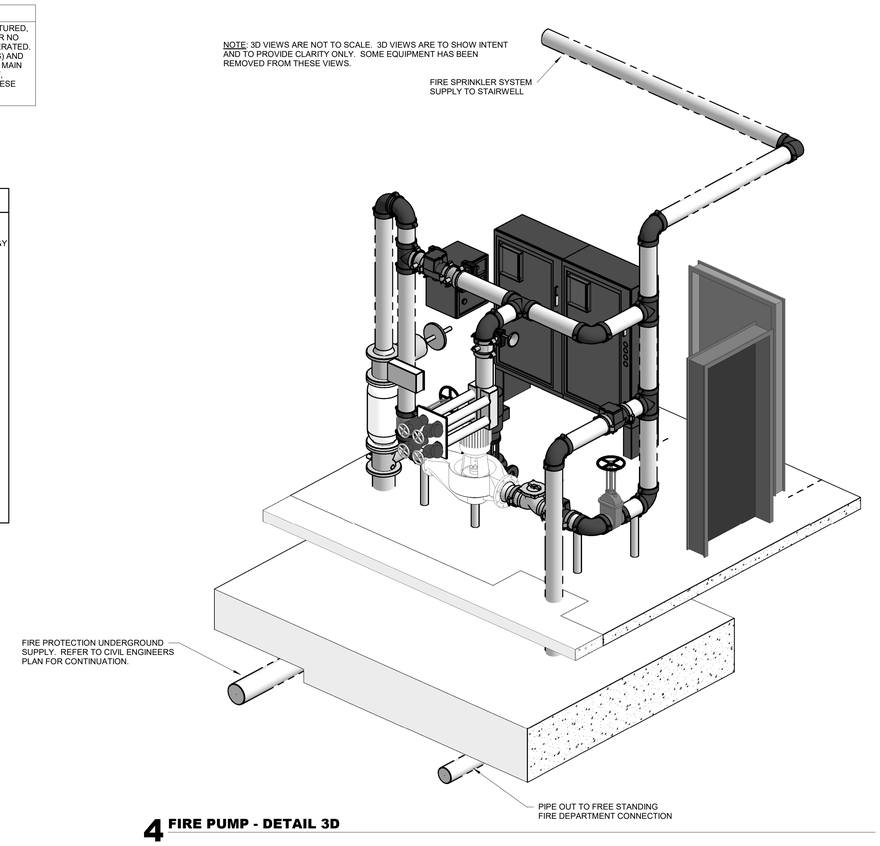
FIRE PROTECTION NOTES
AND DETAILS

ADJUSTABLE PIPE STANDS:

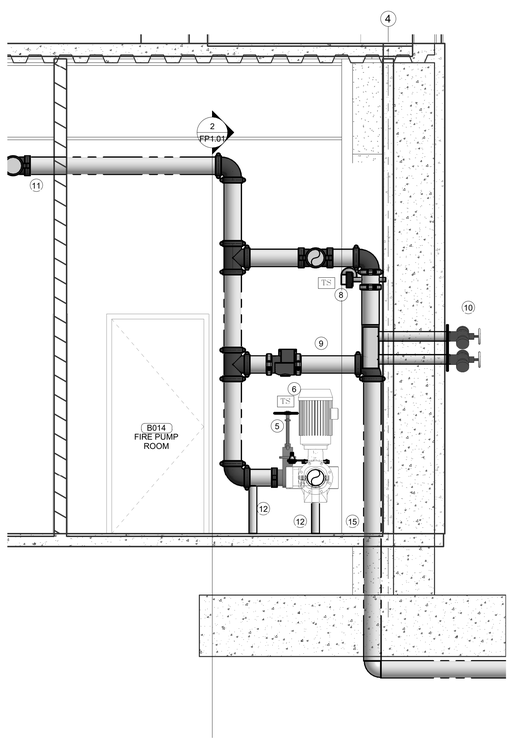
NFPA 13 REQUIRES THAT PIPE STANDS BE "APPROVED". AS SUCH, COMMERCIALLY MANUFACTURED, ADJUSTABLE PIPE STANDS WITH U-BOLTS HAVE BEEN SPECIFIED AND SHOWN HEREIN. UNDER NO CIRCUMSTANCES SHALL 'HOMEMADE', NON-APPROVED PIPE STANDS BE ACCEPTED OR TOLLERATED. ADDITIONALLY, NFPA REQUIRES THE BUILDING TO SUPPORT THE FIRE PROTECTION SYSTEM(S) AND IT SHALL NOT BE PERMISSABLE TO ALLOW UNDERGROUND LEAD-IN'S, SUCH AS FOR THE FIRE MAIN AND FDC LINES, TO BEAR THE LOAD OF THE HORIZONTAL BACKFLOW PREVENTION ASSEMBLY, MANIFOLD OR RISERS. AS A MINIMUM PROVIDE THE QUANTITY OF PIPE STANDS SHOWN IN THESE DETAILS.

FIRE PUMP LEGEND

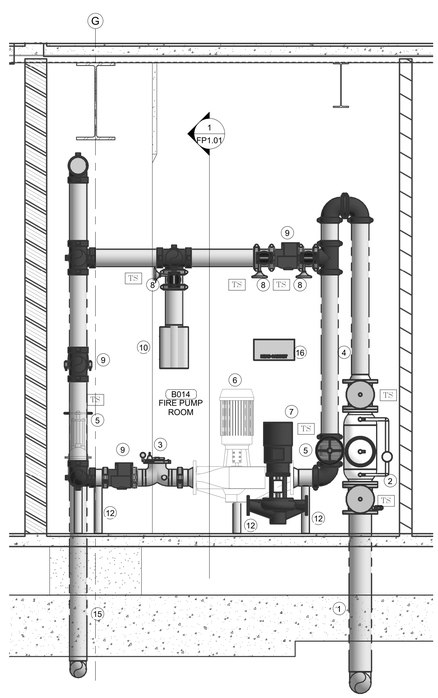
1. NEW UNDERGROUND SERVICE MAIN LEAD-IN TO PUMP ROOM
2. DOUBLE DETECTOR CHECK VALVE ASSEMBLY WITH BYPASS METER IN U.S. GALLONS, OS&Y CONTROL VALVES AND SUPERVISORY SWITCHES. ASSEMBLY IS IN VERTICAL POSITION.
3. FIRE PUMP LOW SUCTION CONTROL VALVE
4. VERTICAL PIPE DOWN (MINIMUM OF TEN (10) PIPE DIAMETERS = 80" = 6'- 8")
5. OS&Y VALVE WITH SUPERVISORY SWITCH
6. FIRE PUMP
7. JOCKEY PUMP
8. GROOVED BUTTERFLY VALVE WITH SUPERVISORY SWITCH
9. GROOVED CHECK VALVE
10. FIRE PUMP TEST HEADER
11. 6" STANDPIPE FEED MAIN
12. PIPE STAND
13. FIRE PUMP CONTROLLER WITH ATS
14. JOCKEY PUMP CONTROLLER
15. 6" TO FREE STANDING FIRE DEPARTMENT CONNECTION
16. SPARE SPRINKLER HEAD CABINET



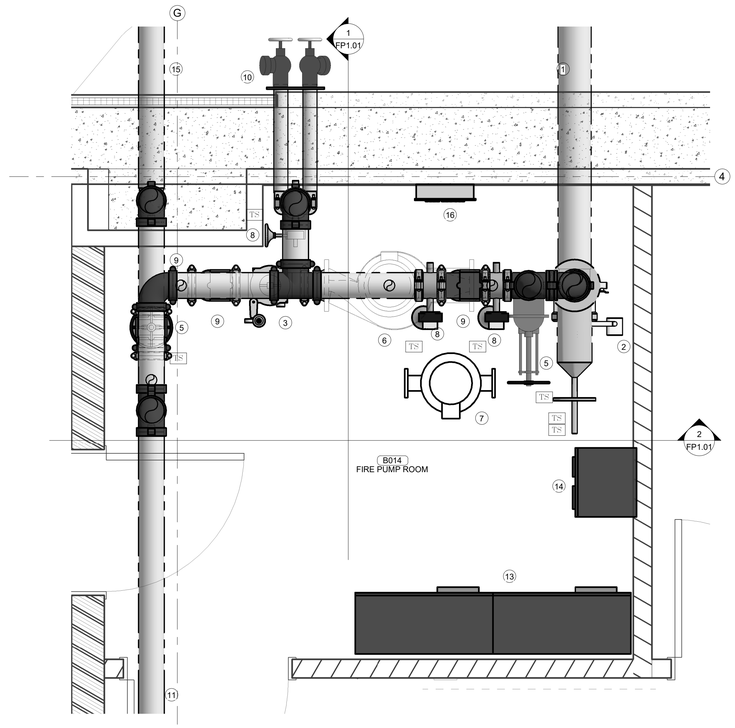
4 FIRE PUMP - DETAIL 3D



1 FIRE PROTECTION DETAIL - A
1/2" = 1'-0"



2 FIRE PROTECTION DETAIL - B
1/2" = 1'-0"



3 FIRE PROTECTION PLAN - BASEMENT - PUMP ROOM
3/4" = 1'-0"

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KEY PLAN:

PROJECT PHASE:

95% CONSTRUCTION DOCUMENTS

REVISIONS

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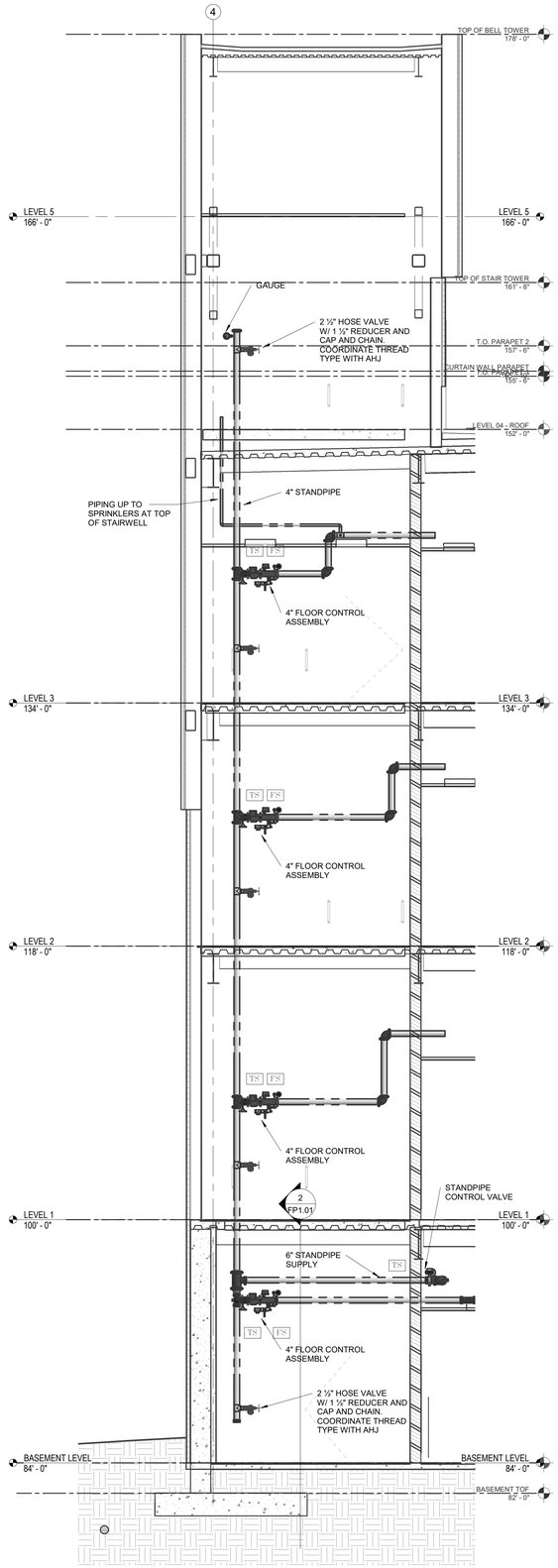
FP1.01

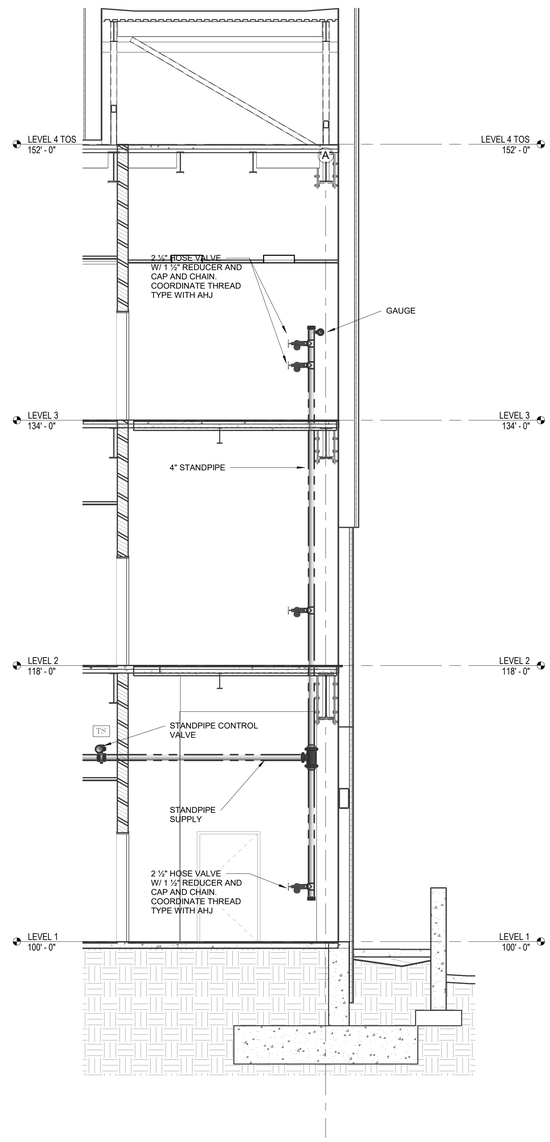
FIRE PROTECTION RISER DETAILS

STANDPIPE NOTES

1. NFPA 14 REQUIRES THAT STANDPIPES BE EITHER 4" OR 6" AND THAT THEY BE HYDRAULICALLY CALCULATED. HOWEVER, THIS PROJECT SHALL REQUIRE THAT ALL HORIZONTAL STANDPIPES SHALL BE MINIMUM 6" DIAMETER PIPING - NO EXCEPTIONS. THE INTENT OF THIS REQUIREMENT IS TO HAVE AN ADEQUATE INFRASTRUCTURE INSTALLED, SUCH THAT IT CAN BE EXTENDED FOR THE OWNER'S FUTURE PHASES OF WORK (I.E., BUILDING ADDITIONS AND EXPANSIONS, CONNECTION TO ADJACENT BUILDINGS, ETC.), AS WELL AS TO ACCOUNT FOR DETERIORATION OF THE CITY WATER SUPPLY AND / OR LOSS OF FIRE PUMP. THE CONTRACTOR SHALL STILL BE REQUIRED TO PERFORM A STANDPIPE CALCULATION IN ORDER TO DETERMINE WHETHER OR NOT VERTICAL STANDPIPES WILL BE 4" OR 6" PIPING AS REQUIRED BY NFPA 14, AND THE LOCAL AHJ.
2. PROVIDE MINIMUM OF TWO (2) 2½" FIRE DEPARTMENT HOSE VALVE AT TOPS OF ALL REQUIRED STANDPIPES. THIS IS TO FACILITATE THE MINIMUM 500 GPM HYDRAULIC DESIGN DEMAND AS REQUIRED BY NFPA 14.
3. PROVIDE MINIMUM 4" DIAMETER SPRINKLER SYSTEM OUTLETS ON COMBINATION STANDPIPES - NO EXCEPTIONS. THE INTENT OF THIS REQUIREMENT IS TO FACILITATE BUILDING RENOVATIONS, EXPANSION, CHANGE OF OCCUPANCY, ETC., WHICH WOULD HAVE A HIGHER HYDRAULIC DEMAND. SMALL OUTLETS AND SMALL FLOOR CONTROL ASSEMBLIES HAVE HIGHER PRESSURE LOSSES ASSOCIATED WITH THEM. ONCE STANDPIPES ARE INSTALLED, SAID OUTLETS CANNOT BE EASILY REMOVED OR REPLACED IN THE FIELD.
4. INSTALL FLOOR CONTROL ASSEMBLIES AT COMMON ELEVATIONS ABOVE FINISHED FLOORS AND STAIR LANDINGS. INSTALL HIGH ENOUGH TO AVOID TAMPERING FROM BUILDING OCCUPANTS, BUT NOT SO HIGH OR ABOVE CEILINGS THAT THEY CANNOT BE ACCESSED FROM SHORT 4FT / 6FT LADDERS, AND VISUALLY INSPECTED AS PER NFPA 25, 14 & 13. IF FLOOR CONTROL ASSEMBLIES ARE REQUIRED TO BE INSTALLED ABOVE CEILINGS BY AHJ OTHER THAN THE ENGINEER OF RECORD, MINIMUM 24" ACCESS PANELS SHALL BE REQUIRED AND SHALL MATCH THE MINIMUM FIRE RATING OF THE WALL OR CEILING IN WHICH THEY ARE INSTALLED.
5. INSTALL ALL HYDRAULIC CALCULATION PLACARDS REQUIRED FOR EACH HYDRAULIC DESIGN AREA PROVEN FOR EACH FLOOR LEVEL. INSTALL ALL PERTINENT SIGNAGE ON ALL VALVES (CONTROL, MAIN DRAIN, AUXILIARY DRAIN, TEST, ETC. THESE REQUIREMENTS ARE AS PER NFPA, LOCAL AHJ AND THESE CONSTRUCTION DOCUMENTS.



1 FIRE PROTECTION - STANDPIPE DETAIL A
1/4" = 1'-0"



2 FIRE PROTECTION - STANDPIPE DETAIL B
1/4" = 1'-0"

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AT THE CHEROKEE NATION
TAHLEQUAH, OKLAHOMA

KEY PLAN:

PROJECT PHASE:

95% CONSTRUCTION DOCUMENTS

REVISIONS:

#	DATE	DESCRIPTION

DATE:	JOB NUMBER:
07-26-19	17-13

SHEET NUMBER:

FP1.02

FIRE PROTECTION STANDPIPE DETAILS

SUPPLY MAIN NOTES

FIRE PROTECTION SUPPLY MAINS HAVE BEEN SHOWN AS A PLACEHOLDER - FOR GENERAL COORDINATION. FINAL ROUTINGS OF THE MAINS SHALL BE DETERMINED BY THE INSTALLING FIRE SPRINKLER CONTRACTOR, BUT EFFORTS TO USE THE LOCATIONS SHOWN HEREIN SHOULD BE MADE.

THE INSTALLING CONTRACTOR WILL NEED TO COORDINATE WITH ALL OTHER DISCIPLINES AT ALL TIMES, ESPECIALLY THE MECHANICAL CONTRACTOR, AS THERE WILL BE LIMITED SPACE ABOVE CEILINGS IN SOME AREAS.

KEYED NOTES:

1. THIS SPACE SHALL BE CONSIDERED ORDINARY HAZARD AND SPRINKLER HEAD COVERAGE SHALL NOT EXCEED 130 SQUARE FEET PER SPRINKLER HEAD.
2. INSTALL SPRINKLER HEADS AT THE TOP OF THE ELEVATOR SHAFT AND IN THE PIT OF THE ELEVATOR SHAFT.
3. INSTALL DRY PIPE VALVE AND ALL REQUIRED APPURTENANCES TO SUPPLY DRY SPRINKLER HEADS IN MDF ROOM.
4. THIS SPACE SHALL BE PROTECTED BY DRY PIPE FIRE SPRINKLER SYSTEM.
5. PROVIDE CLOSELY SPACED SPRINKLERS (WATER CURTAIN) AROUND OPENING PER NFPA 13.

NOTICE TO CONTRACTORS:

THE FIRE PROTECTION SYSTEMS DESIGNER IS CAUTIONED TO CAREFULLY COORDINATE AND CONSIDER ROUTINGS OF ALL FIRE PROTECTION PIPES AND LOCATIONS OF FIRE SPRINKLER HEADS WITH ALL OTHER DISCIPLINES (ALL STRUCTURAL ELEMENTS, HVAC DUCTWORK, ALL ABOVE CEILING PIPING SYSTEMS, LIGHTING FIXTURES, PLUMBING, MEDICAL GAS, ETC.), AS THERE WILL BE LIMITED SPACE ABOVE CEILINGS AND IN CHASES. THE SHORTEST ROUTE / DISTANCE BETWEEN ANY TWO POINTS MAY NOT BE THE ACCEPTABLE ROUTE, DUE TO EXISTING CONSTRUCTION FEATURES OR CONFLICTS WITH OTHER DISCIPLINES. THE FIRE PROTECTION DESIGNER IS CAUTIONED TO PERFORM A VERY DETAILED SURVEY OF THE BUILDING, EXISTING OR PLANNED, AND CAREFULLY REVIEW ALL PROJECT DRAWINGS AND DETAILS DURING DESIGN OF THE FIRE PROTECTION SYSTEMS.

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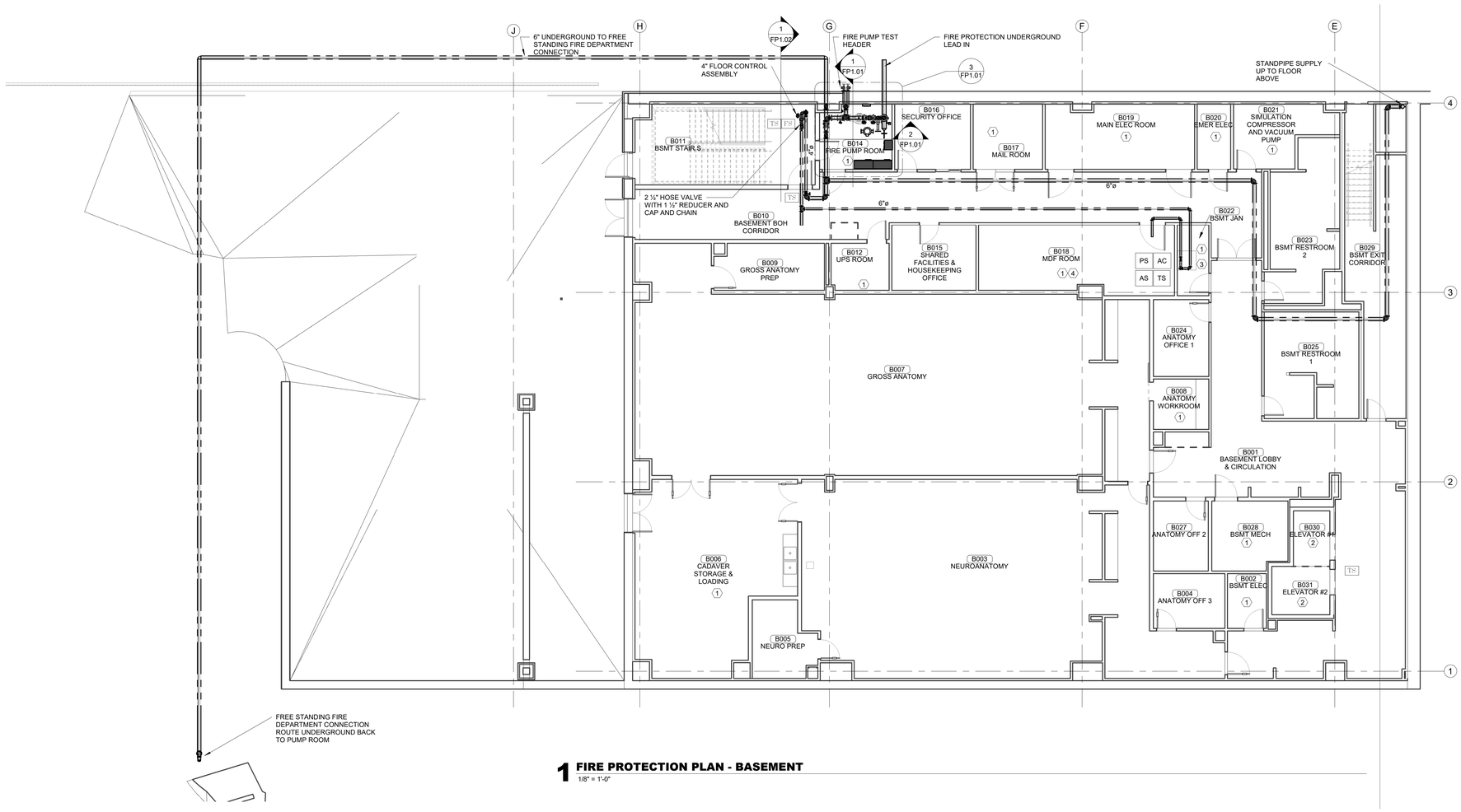
WARNING: IF THE INSTALLING CONTRACTOR CHOOSES TO USE AND INSTALL FLEXIBLE SPRINKLER DROPS, THEY SHALL BE INSTALLED IN ACCORDANCE WITH THEIR LISTING AND MANUFACTURERS INSTRUCTIONS. ATTENTION SHALL BE PAID TO BOTH THE *RADIUS* OF EACH BEND THAT MAY BE IN ANY SINGLE FLEXIBLE DROP, AS WELL AS THE *TOTAL NUMBER* OF BENDS INSTALLED IN ANY SINGLE FLEXIBLE DROP THAT MAY BE INSTALLED. THIS SHALL BE CLOSELY SCRUTINIZED IN THE FIELD DURING INSTALLATION. CONTRACTORS SHALL REPLACE EVERY FLEXIBLE DROP THAT IS DEEMED NOT TO BE INSTALLED ACCORDING TO ITS LISTING AND APPROVAL, AND HP ENGINEERING SHALL HAVE THE FINAL WORD ON WHETHER OR NOT FLEXIBLE SPRINKLER DROPS ARE INSTALLED ACCORDING TO THEIR LISTING. ANY FLEXIBLE SPRINKLER DROPS DEEMED TO BE INSTALLED INCORRECTLY SHALL BE REPLACED WITH LONGER, APPROPRIATE LENGTH FLEXIBLE DROPS, OR REPLACED WITH HARD-PIPED RETURN BENDS. IN EVERY INSTANCE, THIS SHALL BE AT THE CONTRACTORS EXPENSE. CONTRACTORS ARE CAUTIONED NOT TO TRY AND USE SHORT FLEXIBLE SPRINKLER DROPS TO "GET BY", WHEN A LONGER FLEXIBLE SPRINKLER DROP IS WHAT THE INSTALLATION REQUIRES.



1 FIRE PROTECTION PLAN - BASEMENT
1/8" = 1'-0"

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TAHLEQUAH, OKLAHOMA

KEY PLAN:
02 01

PROJECT PHASE:
95% CONSTRUCTION DOCUMENTS

REVISIONS		
#	DATE	DESCRIPTION

DATE:	JOB NUMBER:
07-26-19	17-13

SHEET NUMBER:
FP2.00

FIRE PROTECTION PLAN - BASEMENT

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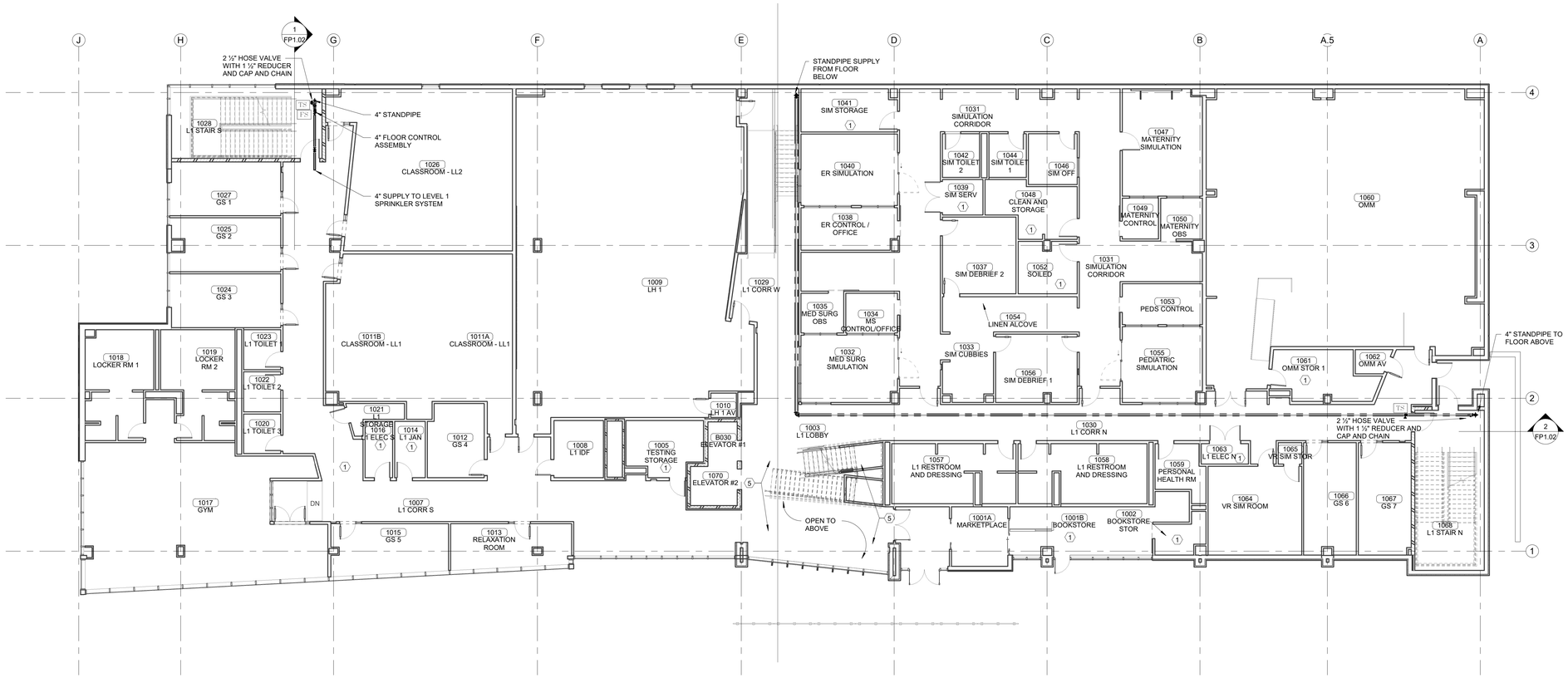

1 FIRE PROTECTION PLAN - LEVEL 1
1" = 10'-0"

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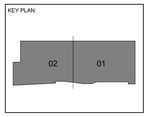
KEY PLAN:



PROJECT PHASE:

95% CONSTRUCTION DOCUMENTS

REVISIONS:

#	DATE	DESCRIPTION

DATE:	JOB NUMBER:
07-26-19	17-13

SHEET NUMBER:

FP3.00

FIRE PROTECTION PLAN - LEVEL 1

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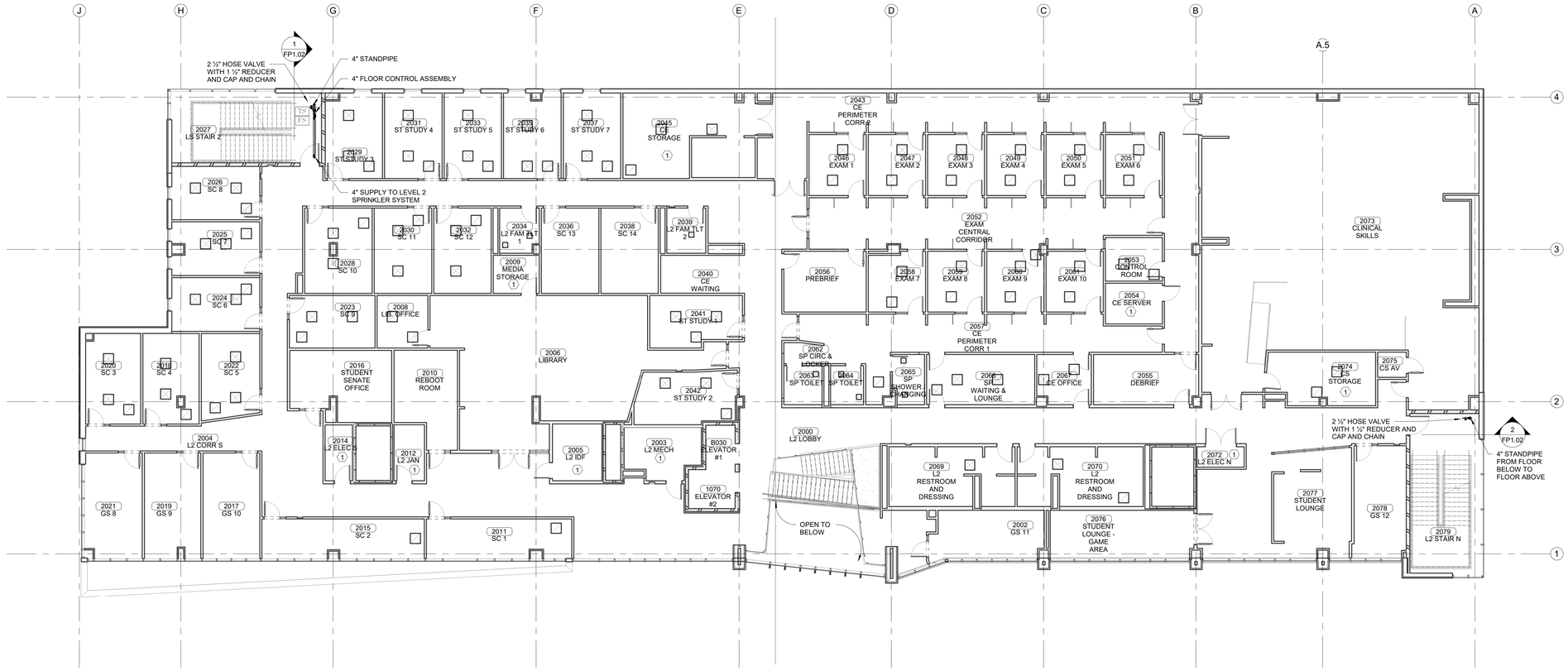

1 FIRE PROTECTION PLAN - LEVEL 2
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KEY PLAN:

02 | 01

PROJECT PHASE:

95% CONSTRUCTION DOCUMENTS

REVISIONS:

#	DATE	DESCRIPTION

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07-26-19	17-13

SHEET NUMBER:

FP4.00

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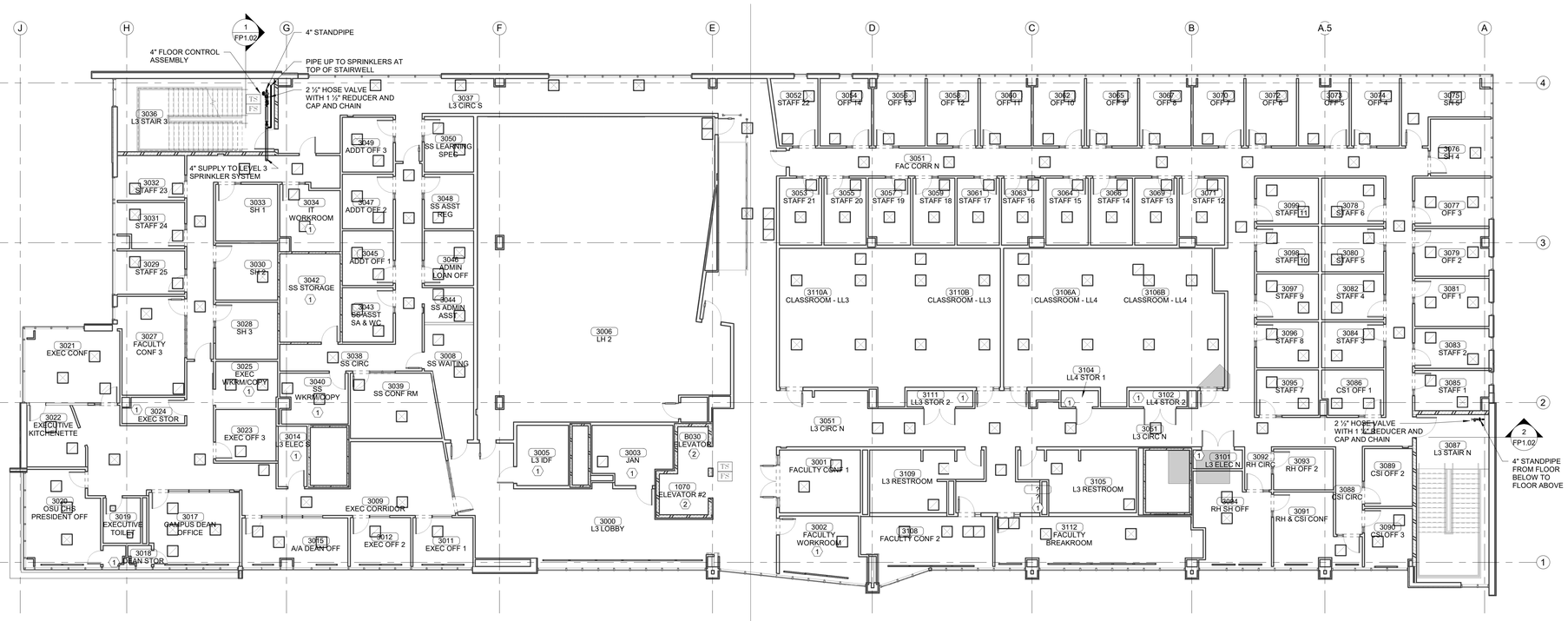

1 FIRE PROTECTION PLAN - LEVEL 3
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www.hpengineeringinc.com

CLIENT:

COLLEGE OF Osteopathic Medicine AT THE CHEROKEE NATION

TAHLEQUAH, OKLAHOMA

KEY PLAN:

02 01

PROJECT PHASE:

95% CONSTRUCTION DOCUMENTS

REVISIONS:

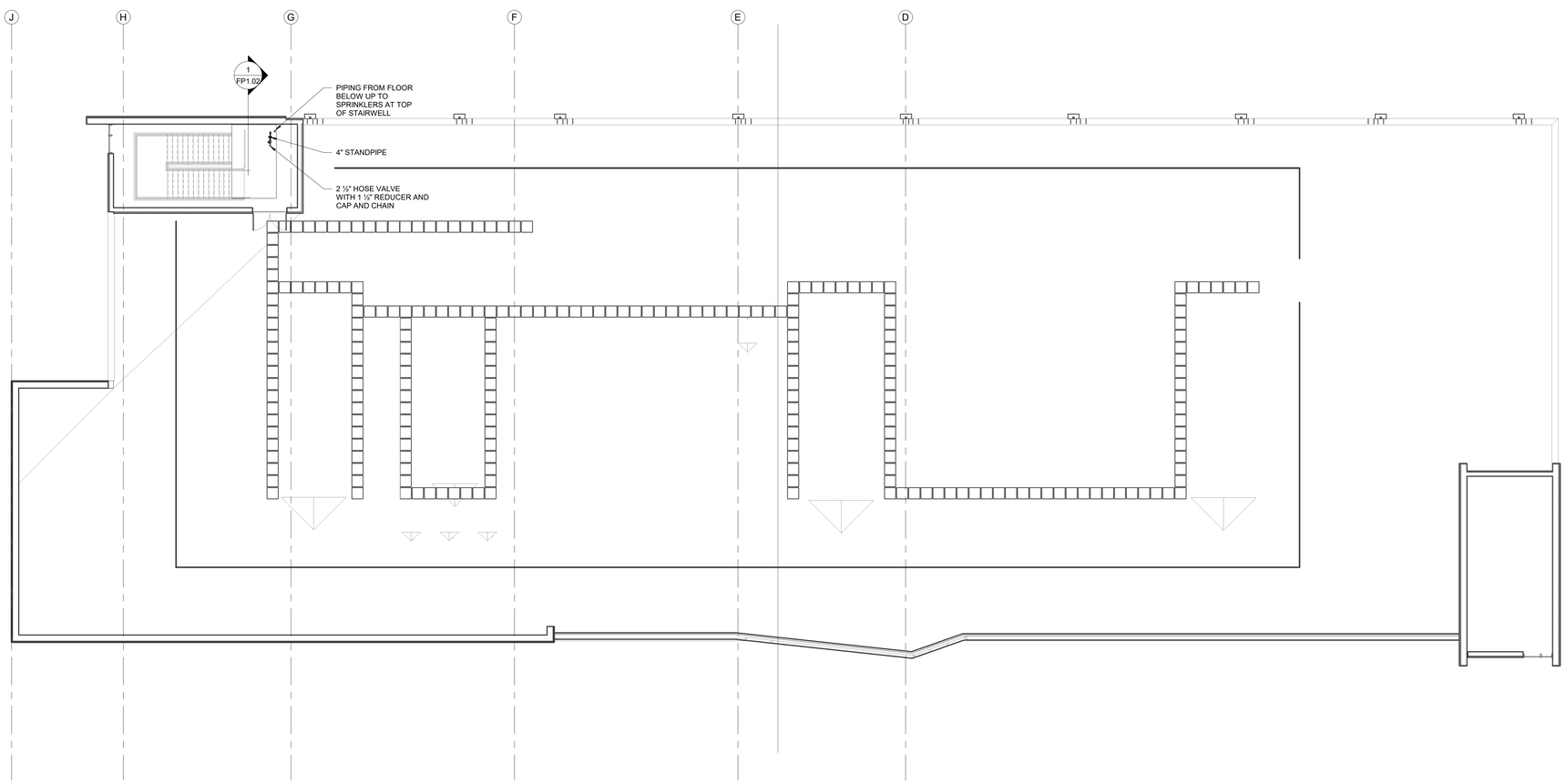
#	DATE	DESCRIPTION

DATE:	JOB NUMBER:
07-26-19	17-13

SHEET NUMBER:

FP5.00

FIRE PROTECTION PLAN - LEVEL 3



1 FIRE PROTECTION PLAN - LEVEL ROOF
1" = 10'-0"

NOTICE TO CONTRACTORS:

THE FIRE PROTECTION SYSTEMS DESIGNER IS CAUTIONED TO CAREFULLY COORDINATE AND CONSIDER ROUTINGS OF ALL FIRE PROTECTION PIPES AND LOCATIONS OF FIRE SPRINKLER HEADS WITH ALL OTHER DISCIPLINES (ALL STRUCTURAL ELEMENTS, HVAC DUCTWORK, ALL ABOVE CEILING PIPING SYSTEMS, LIGHTING FIXTURES, PLUMBING, MEDICAL GAS, ETC.), AS THERE WILL BE LIMITED SPACE ABOVE CEILINGS AND IN CHASES. THE SHORTEST ROUTE / DISTANCE BETWEEN ANY TWO POINTS MAY NOT BE THE ACCEPTABLE ROUTE, DUE TO EXISTING CONSTRUCTION FEATURES OR CONFLICTS WITH OTHER DISCIPLINES. THE FIRE PROTECTION DESIGNER IS CAUTIONED TO PERFORM A VERY DETAILED SURVEY OF THE BUILDING, EXISTING OR PLANNED, AND CAREFULLY REVIEW ALL PROJECT DRAWINGS AND DETAILS DURING DESIGN OF THE FIRE PROTECTION SYSTEMS.

THE INSTALLING FIRE PROTECTION CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE GENERAL CONTRACTOR AND OTHER TRADES PRIOR TO FABRICATION AND DURING INSTALLATION. GREAT CARE AND GOOD CRAFTSMANSHIP DURING INSTALLATION IS EXPECTED AT ALL TIMES TO AVOID UNNECESSARY AND UNWANTED DAMAGE TO ANY PART OR FEATURE OF THE BUILDING, EXISTING OR PLANNED. THE INSTALLING CONTRACTOR IS CAUTIONED TO VERIFY ANY AND ALL PENETRATIONS PRIOR TO CUTTING OR DRILLING HOLES FOR PIPES. CONTRACTOR IS FURTHER CAUTIONED TO PRE-DRILL HOLES FOR HANGER ATTACHMENTS, SO AS TO NOT SPLIT, CRACK OR OTHERWISE DAMAGE ANY STRUCTURAL FRAMING MEMBERS OR CONCRETE SLABS. PENETRATIONS OF STRUCTURAL MEMBERS IS STRICTLY PROHIBITED WITHOUT A PROPERLY EXECUTED, WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER OF RECORD. IT MAY BE NECESSARY FOR PIPES TO DROP DOWN, GO UNDER AND RISE UP AT BEAMS, OTHER STRUCTURAL FEATURES OR OTHER BUILDING SYSTEMS. AT ALL TIMES THIS SHALL BE AT CONTRACTOR'S EXPENSE. CONTRACTOR IS CAUTIONED TO COORDINATE WITH ALL OTHER DISCIPLINES.

WARNING: IF THE INSTALLING CONTRACTOR CHOOSES TO USE AND INSTALL FLEXIBLE SPRINKLER DROPS, THEY SHALL BE INSTALLED IN ACCORDANCE WITH THEIR LISTING AND MANUFACTURERS INSTRUCTIONS. ATTENTION SHALL BE PAID TO BOTH THE *RADIUS* OF EACH BEND THAT MAY BE IN ANY SINGLE FLEXIBLE DROP, AS WELL AS THE *TOTAL NUMBER* OF BENDS INSTALLED IN ANY SINGLE FLEXIBLE DROP THAT MAY BE INSTALLED. THIS SHALL BE CLOSELY SCRUTINIZED IN THE FIELD DURING INSTALLATION. CONTRACTORS SHALL REPLACE EVERY FLEXIBLE DROP THAT IS DEEMED NOT TO BE INSTALLED ACCORDING TO ITS LISTING AND APPROVAL, AND HP ENGINEERING SHALL HAVE THE FINAL WORD ON WHETHER OR NOT FLEXIBLE SPRINKLER DROPS ARE INSTALLED ACCORDING TO THEIR LISTING. ANY FLEXIBLE SPRINKLER DROPS DEEMED TO BE INSTALLED INCORRECTLY SHALL BE REPLACED WITH LONGER, APPROPRIATE LENGTH FLEXIBLE DROPS, OR REPLACED WITH HARD-PIPED RETURN BENDS. IN EVERY INSTANCE, THIS SHALL BE AT THE CONTRACTORS EXPENSE. CONTRACTORS ARE CAUTIONED NOT TO TRY AND USE SHORT FLEXIBLE SPRINKLER DROPS TO "GET BY", WHEN A LONGER FLEXIBLE SPRINKLER DROP IS WHAT THE INSTALLATION REQUIRES.

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479-783-2480
www.childersarchitect.com

PROFESSIONAL SEAL:

PRELIMINARY, NOT FOR CONSTRUCTION, RECORDING PURPOSES, OR IMPLEMENTATION.

CONSULTANT LOGO:

HP ENGINEERING
PROJECT NO. 18163R
95 % COMPLETE
HP ENGINEERING INC.
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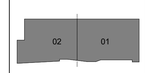
CLIENT:

COLLEGE OF Osteopathic Medicine
AT THE CHEROKEE NATION
TAHLEQUAH, OKLAHOMA

KEY PLAN:



PROJECT PHASE:

95% CONSTRUCTION DOCUMENTS

REVISIONS:

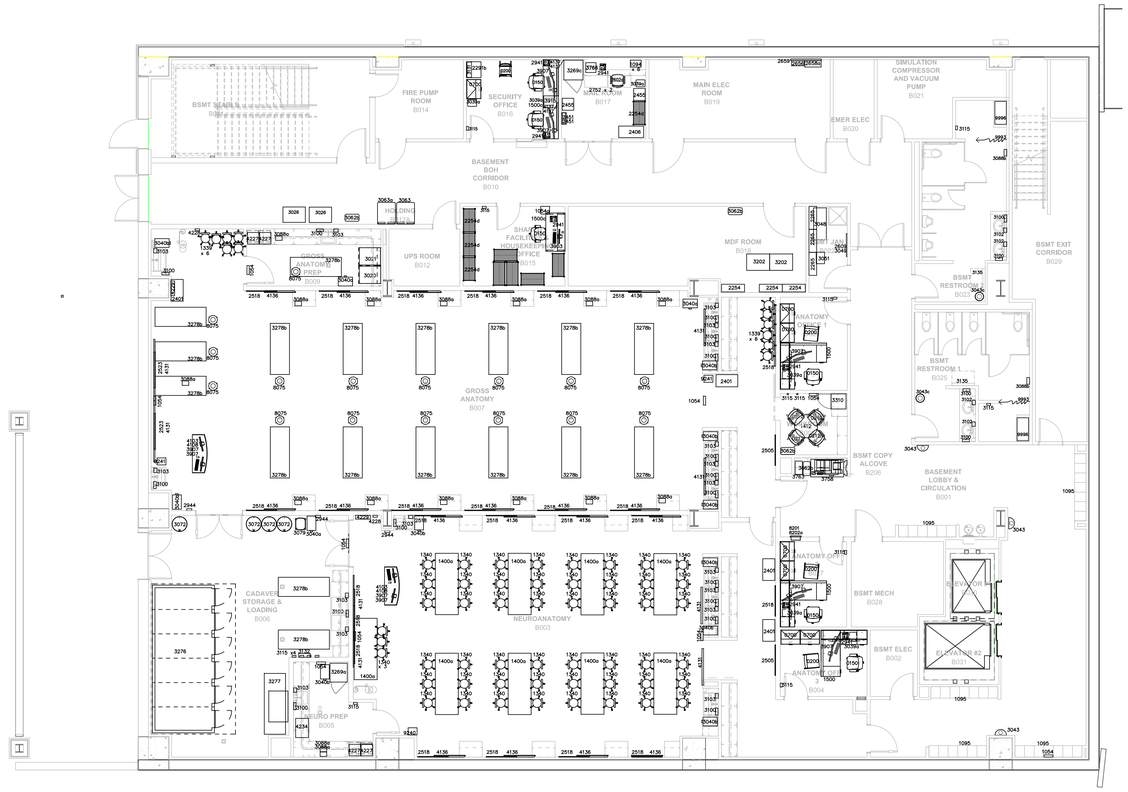
#	DATE	DESCRIPTION

DATE:	JOB NUMBER:
07-26-19	17-13

SHEET NUMBER:

FP6.00

FIRE PROTECTION PLAN - ROOF LEVEL



PLAN NORTH

TRUE NORTH

01 EQUIPMENT PLAN BASEMENT LEVEL SECTOR 02

1/8" = 1'-0"

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CLIENT:

College of Osteopathic Medicine
AT THE CHEROKEE NATION
TAHLEQUAH, OKLAHOMA

KEY PLAN:

01

PROJECT PHASE:

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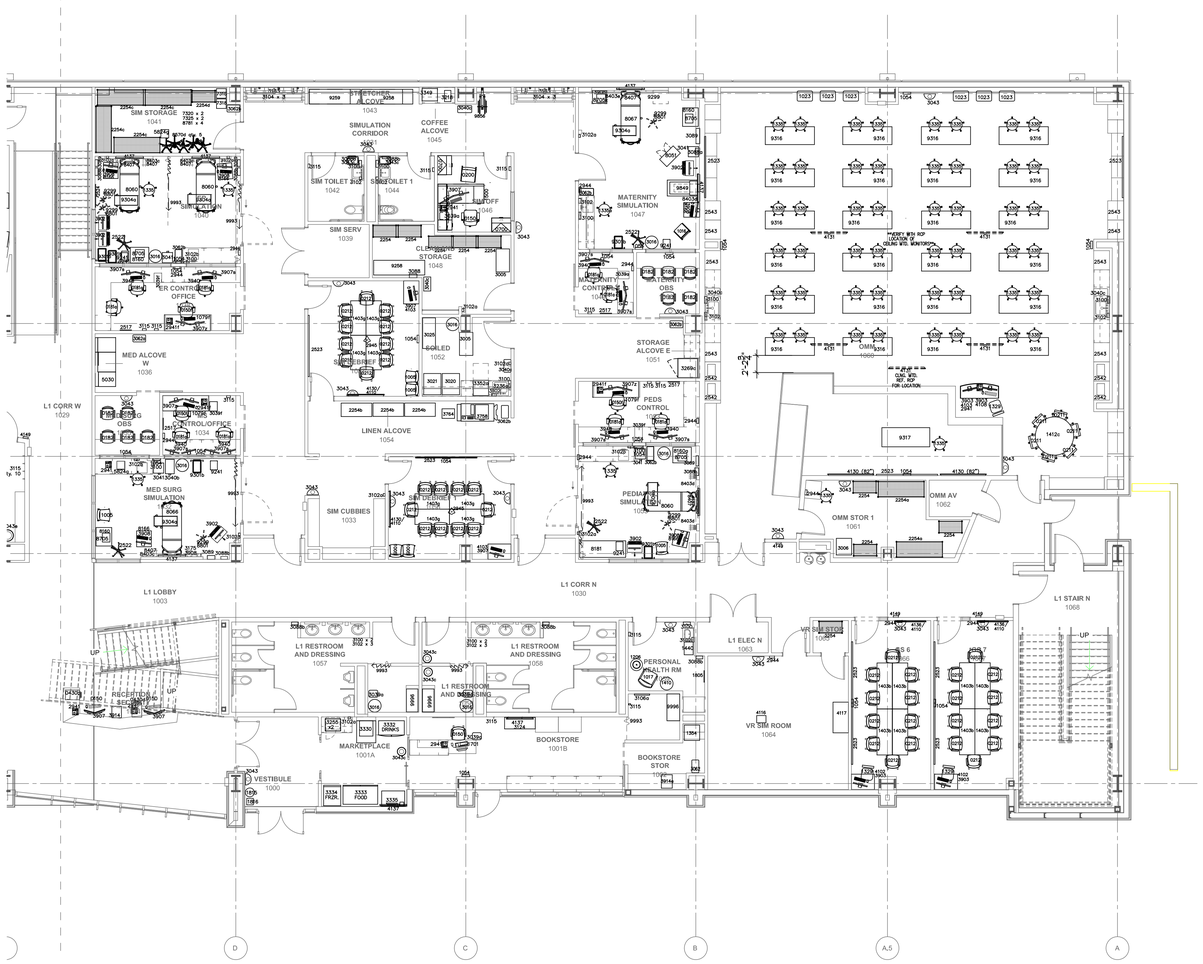
REVISIONS

DATE:	JOB NUMBER:
07-26-19	17-13

SHEET NUMBER:

EQ1.02

EQUIPMENT PLAN BASEMENT LEVEL SECTOR 02



PLAN NORTH

TRUE NORTH

01 EQUIPMENT PLAN LEVEL 01 SECTOR 01

1/8" = 1'-0"

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TAHLEQUAH, OKLAHOMA

KEY PLAN:

02

PROJECT PHASE:

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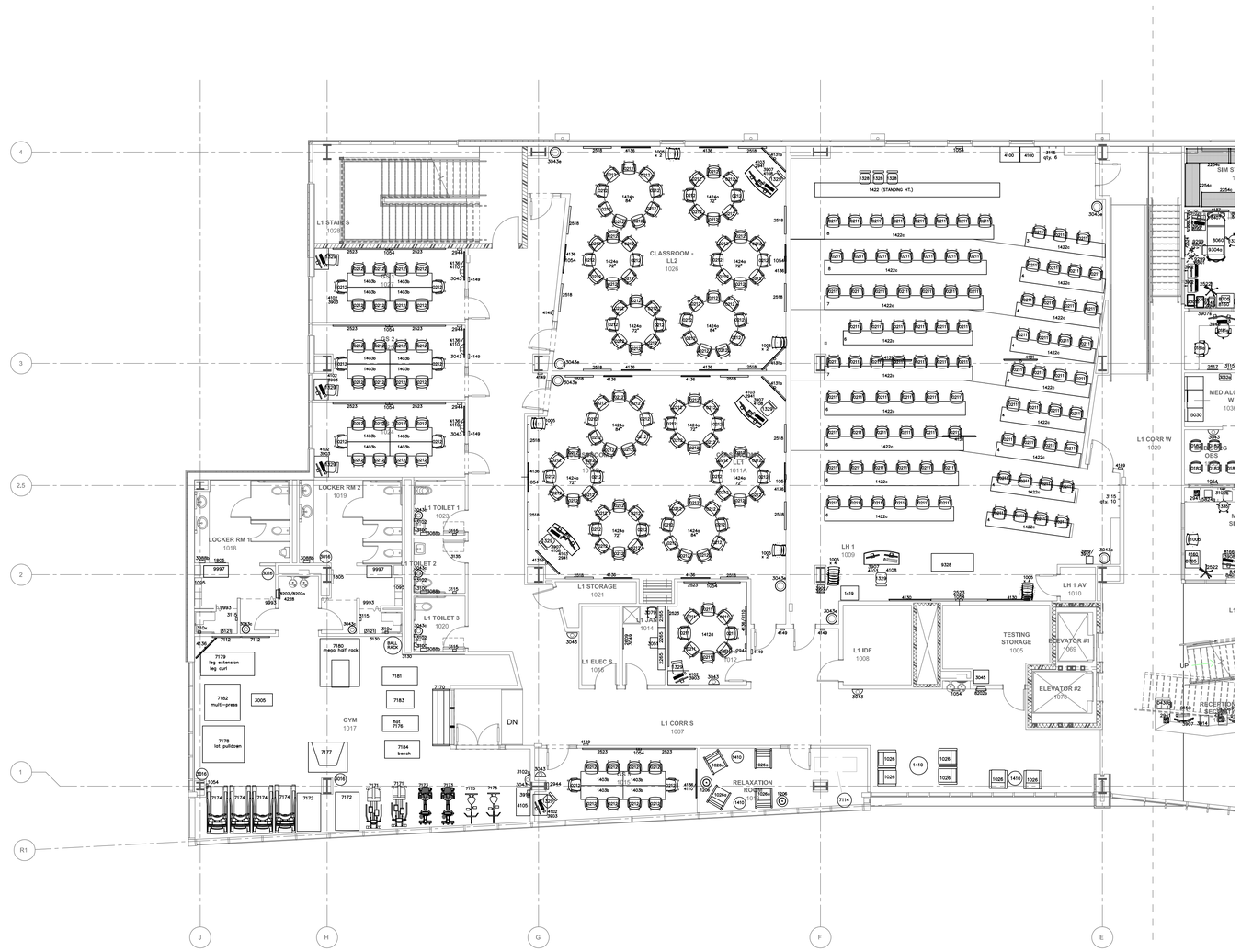
REVISIONS		

DATE:	JOB NUMBER:
07-26-19	17-13

SHEET NUMBER:

EQ1.11

EQUIPMENT PLAN LEVEL 01 SECTOR 01



PLAN NORTH

TRUE NORTH

01 FLOOR PLAN LEVEL 01 SECTOR 02

1/8" = 1'-0"

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TAHLEQUAH, OKLAHOMA

KEY PLAN:

01

PROJECT PHASE:

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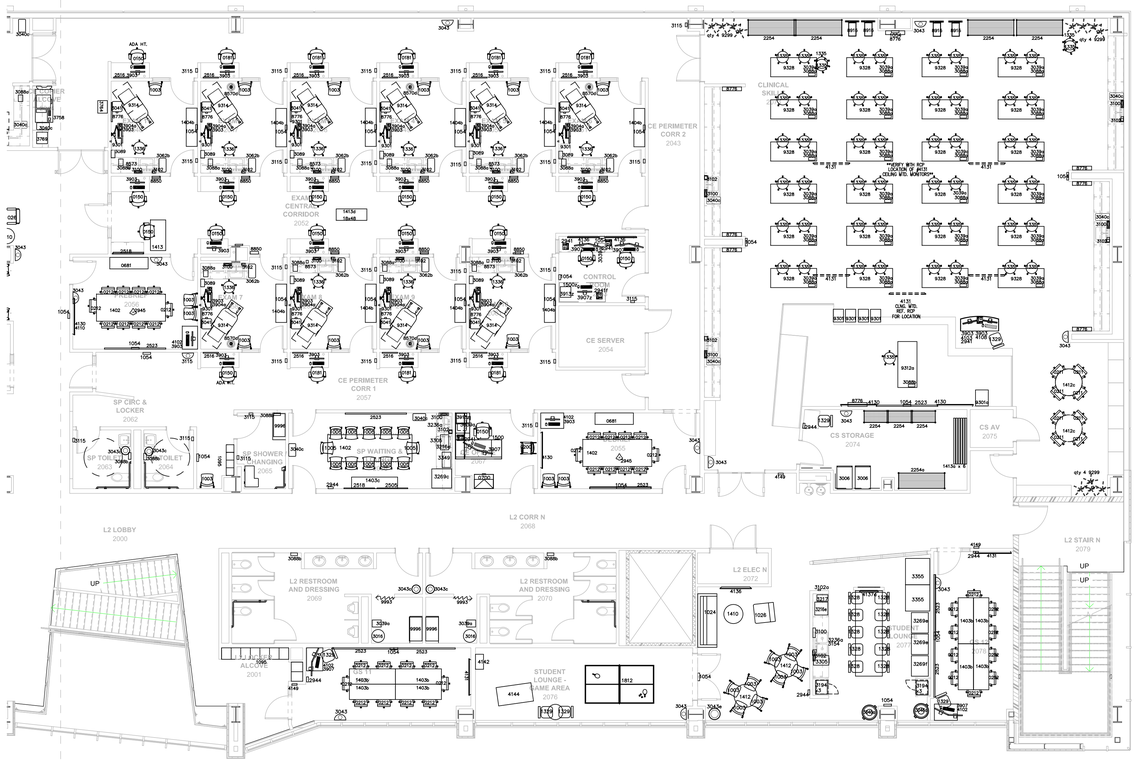
REVISIONS	

DATE:	JOB NUMBER:
07-26-19	17-13

SHEET NUMBER:

EQ1.12

EQUIPMENT PLAN
LEVEL 01 SECTOR 02



PLAN NORTH

TRUE NORTH

01 EQUIPMENT PLAN LEVEL 02 SECTOR 01

1/8" = 1'-0"

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KEY PLAN:

02

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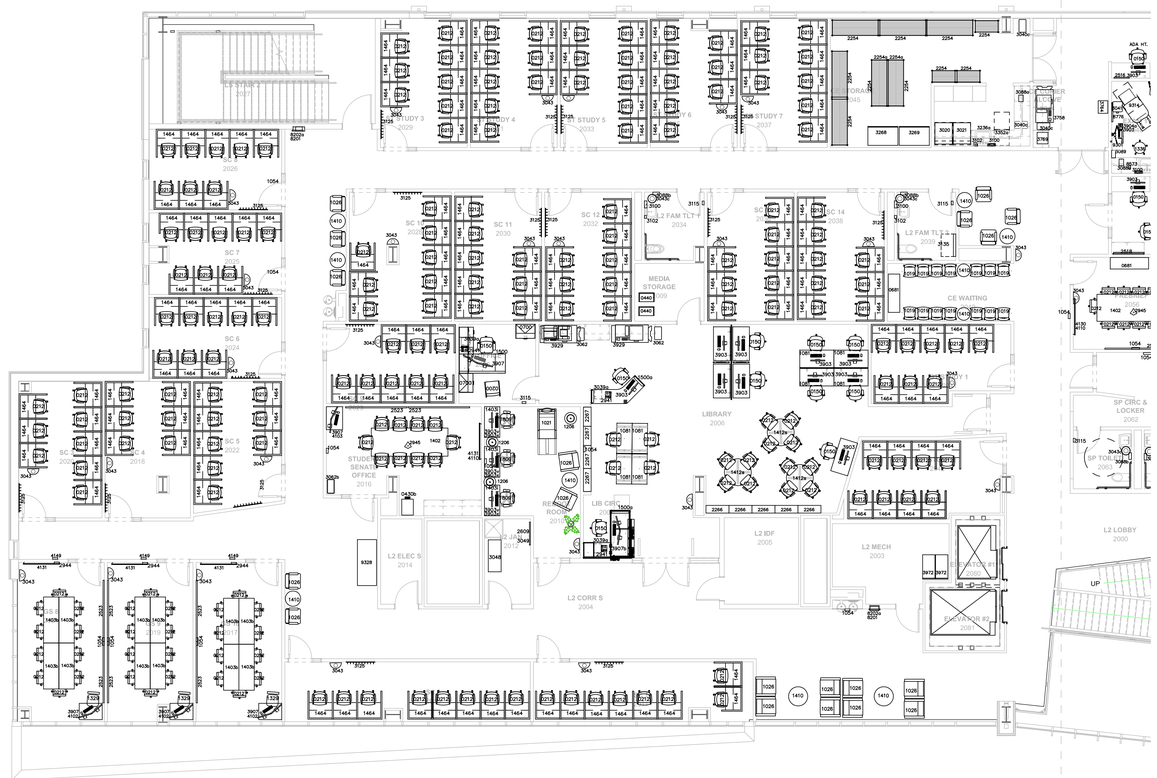
DATE: 07-26-19	JOB NUMBER: 17-13

SHEET NUMBER:

EQ1.21

EQUIPMENT PLAN LEVEL 02 SECTOR 01



PLAN NORTH

TRUE NORTH

01 FLOOR PLAN LEVEL 02 SECTOR 02

1/8" = 1'-0"

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TAHLEQUAH, OKLAHOMA

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PROJECT PHASE:

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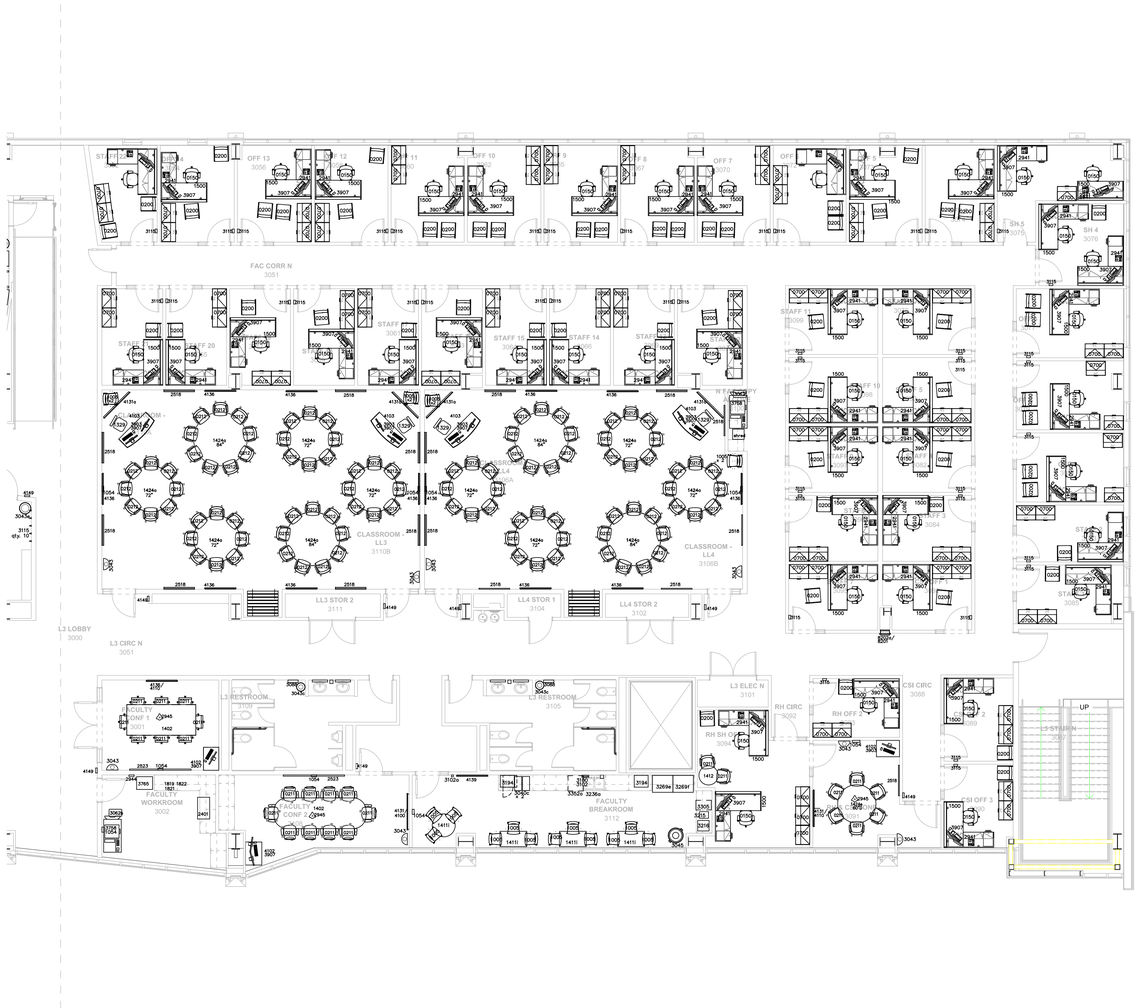
REVISIONS

DATE: 07-26-19	JOB NUMBER: 17-13

SHEET NUMBER:

EQ1.22

EQUIPMENT PLAN LEVEL 02 SECTOR 02



PLAN NORTH

TRUE NORTH

01 EQUIPMENT PLAN LEVEL 03 SECTOR 01

1/8" = 1'-0"

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CLIENT:

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KEY PLAN:

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PROJECT PHASE:

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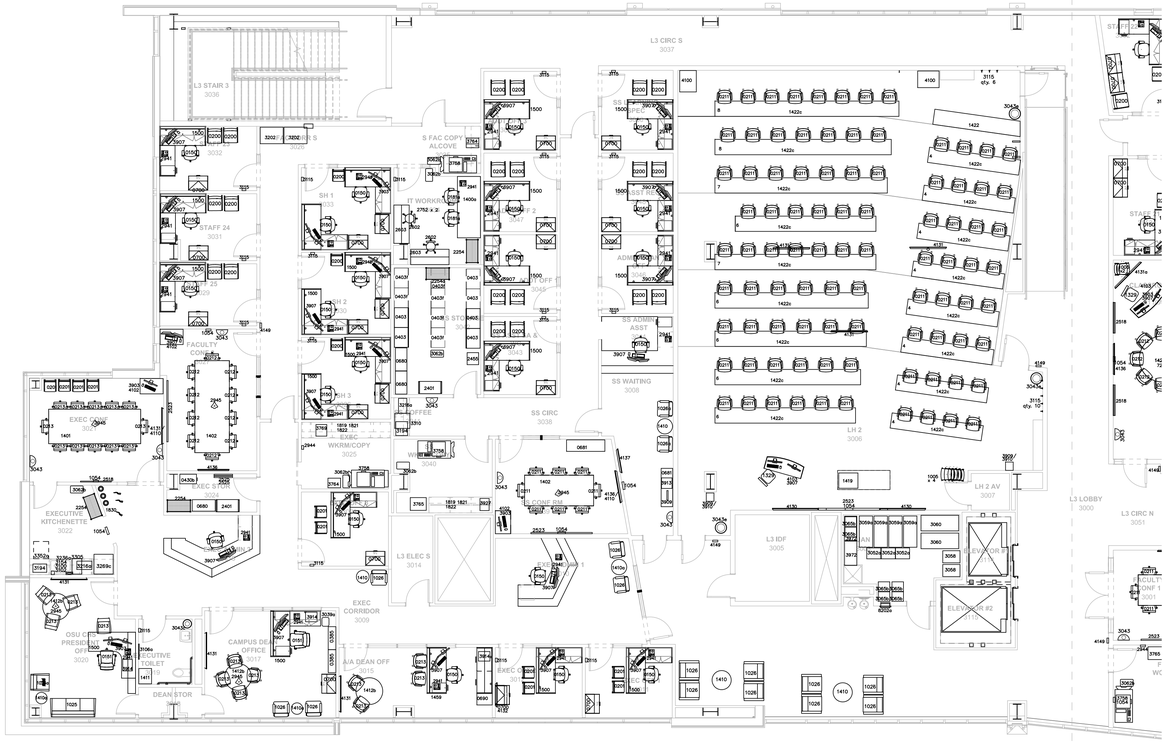
REVISIONS

DATE:	JOB NUMBER:
07-26-19	17-13

SHEET NUMBER:

EQ1.31

EQUIPMENT PLAN LEVEL 03 SECTOR 01



PLAN NORTH

TRUE NORTH

01 FLOOR PLAN LEVEL 03 SECTOR 02

1/8" = 1'-0"

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AT THE CHEROKEE NATION
TAHLEQUAH, OKLAHOMA

KEY PLAN:

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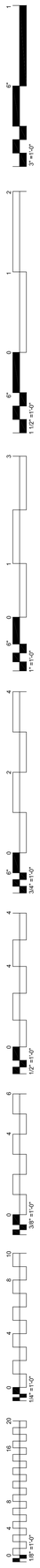
REVISIONS	

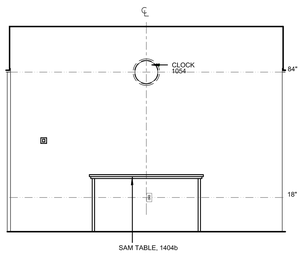
DATE:	JOB NUMBER:
07-26-19	17-13

SHEET NUMBER:

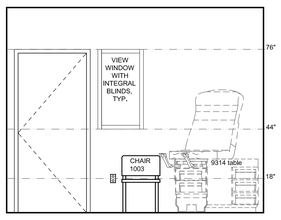
EQ1.32

EQUIPMENT PLAN
LEVEL 03 SECTOR 02

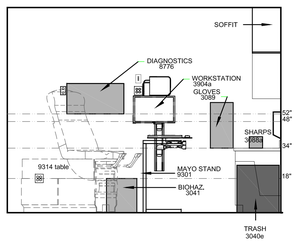




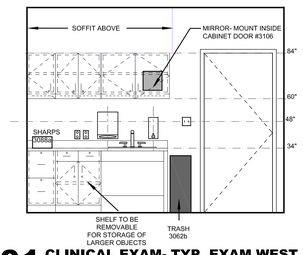
04 **CLINICAL EXAM- TYP. EXAM NORTH**
3/8" = 1'-0"



03 **CLINICAL EXAM- TYP. EXAM EAST**
3/8" = 1'-0"



02 **CLINICAL EXAM- TYP. EXAM SOUTH**
3/8" = 1'-0"



01 **CLINICAL EXAM- TYP. EXAM WEST**
3/8" = 1'-0"

PLAN NORTH

TRUE NORTH

CLINICAL EXAM ROOM EQUIPMENT
3/8" = 1'-0"

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CLIENT:

COLLEGE OF
Osteopathic Medicine
AT THE CHEROKEE NATION
TAHLEQUAH, OKLAHOMA

KEY PLAN:

01

PROJECT PHASE:

95% CONSTRUCTION DOCUMENTS

REVISIONS

DATE:	JOB NUMBER:
07-26-19	17-13

SHEET NUMBER:

EQ2.00

EQUIPMENT-
CLINICAL EXAM
INTERIOR ELEVATIONS