



04.04.2025

Lakewood Business Park

2704 NE Independence Avenue
Lee's Summit, Missouri 64064

a tenant finish for

Client:

Kidz First Therapy, LLC
2706 NE Independence Ave,
Lee's Summit, Missouri 64064
p: 816.446.9018

Architect:

Powell Minnis, AIA
Davidson Architecture & Engineering
4301 Indian Creek Parkway
Overland Park, Kansas 66207
p: 913.451.9390

Mechanical/Plumb. Engineer:

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BC Engineers
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Shawnee, Kansas 66203
p: 913.262.1772

Electrical Engineer:

Darin Seidel, PE
BC Engineers
5720 Reeder Street
Shawnee, Kansas 66203
p: 913.262.1772

General Contractor:

Capital Construction Services
2642 NE Hagan Road
Lee's Summit, Missouri 64064
p: 816.525.0482

Sheet Index:

A0.0 Cover sheet

Architectural
A2.1 Floor Plan, Reflected Ceiling Plan, Restroom Plan, and Notes

Mechanical/Plumbing
MP0.0 Mechanical Specifications
M1.1 Mechanical Plan
M2.1 Mechanical Schedules and Details
P1.1 Plumbing Plan

Electrical
E0.1 Electrical Specifications
E1.1 Electrical Lighting Plan
E2.1 Electrical Power Plan

Code Synopsis:

The enclosed documents are reviewed utilizing the currently adopted code for this jurisdiction. References to the international existing building code and current equivalents have been noted as applicable.

Governing Municipality: Lee's Summit, Missouri

Governing Code: 2018 International Building Code
2018 International Fire Code
2018 International Mechanical Code
2018 International Plumbing Code
2015 International Fuel Gas Code
2017 NEC (w/ Part 8 Rules)
ICC/ANSI A117.1-2009

Zoning: CS - Planned Commercial Services

Stories: one

Building Height: 35'-0"

Building Square Footage: 70,129 s.f.

Tenant Square Footage: 10,128 s.f.

Construction Type: IIB

Fire Suppression: yes

Occupancy Group: B

Allowable Area: Unlimited Based on 507.4

Occupant Load:
Business 1/150 s.f. 68
Total: 68 occ.

Exit Width Required: 13.6" (68 x 0.2")

Exit Width Provided: 4 doors @ 34" clear (2 double doors) = 136"

Exit Distance for B Occupancy: less than 300' (as allowed in sec. 1017.2)

Plumbing Count Calculations:

	WC required			WC provided			Total
	men's	women's	unisex	men's	women's	unisex	
Business (34 per gender)	1.36	1.36	--	4	4	1	9
	Lavatory required			Lavatory provided			Total
	men's	women's	unisex	men's	women's	unisex	
Business (34 per gender)	0.85	0.85	--	3	3	1	7
Service Sink	1 required			1 provided			
Drinking Fountain	1 per 100			2 provide (1 high-low)			

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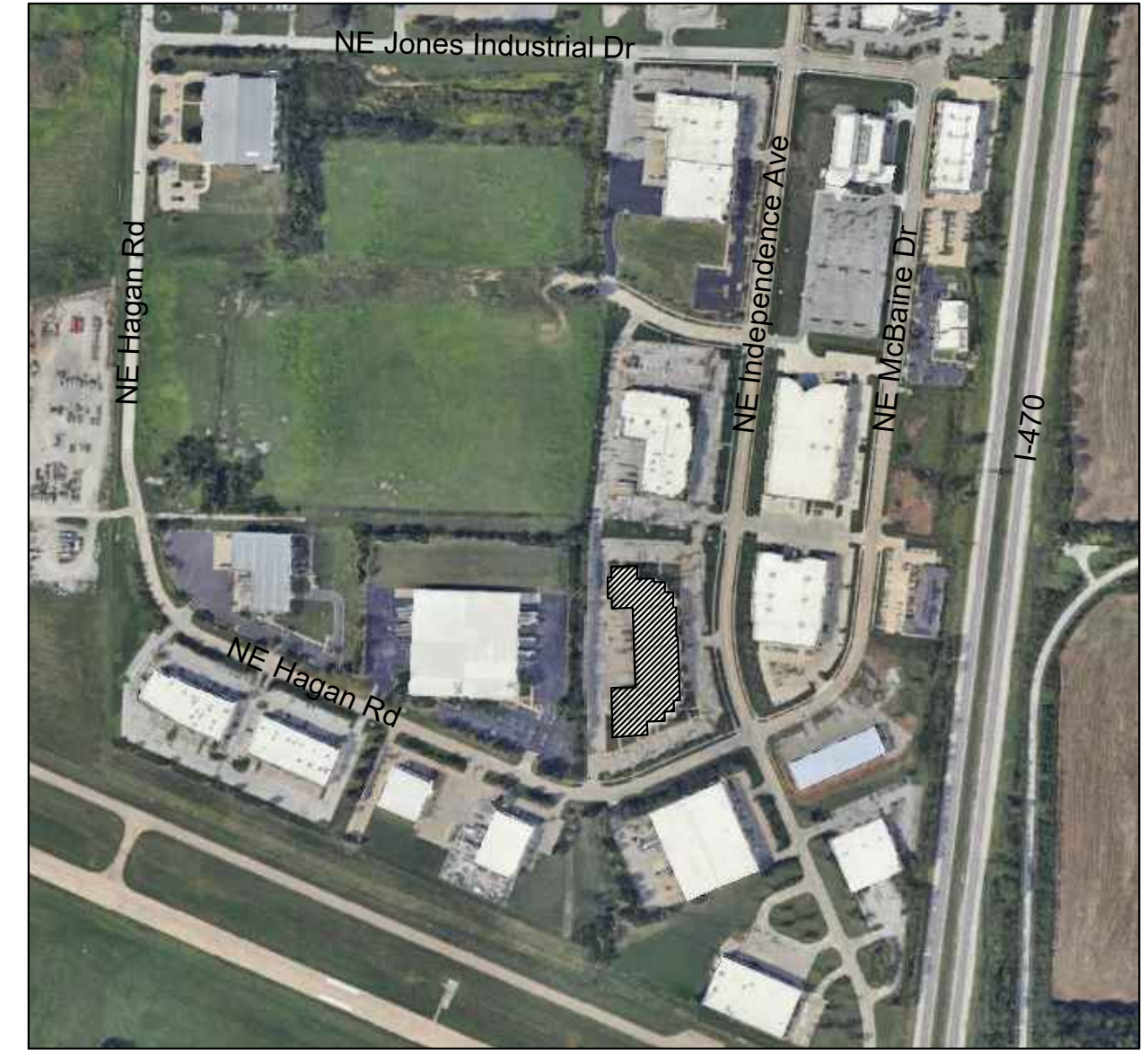
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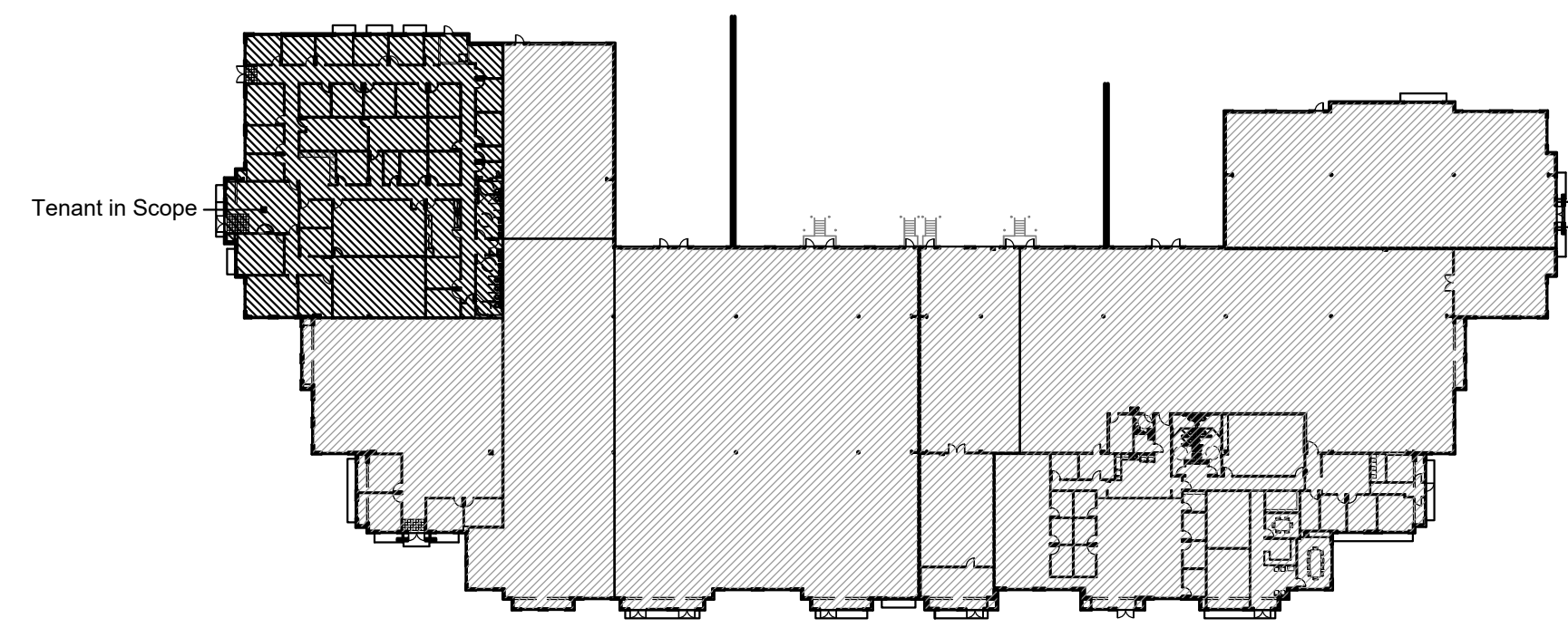
Site Plan:

Not to Scale



Tenant Plan:

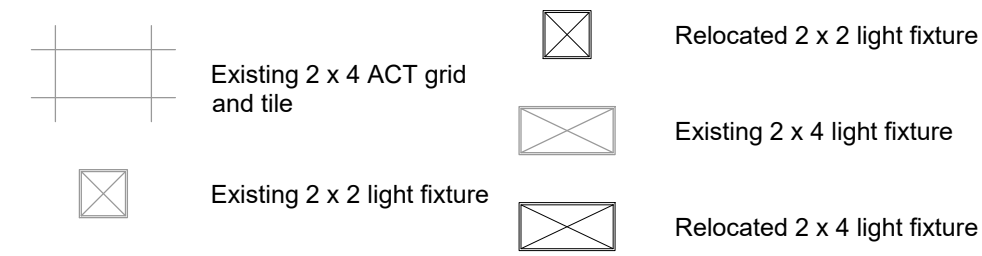
Not to Scale



reflected ceiling notes:

- Refer to general notes and specifications for more information.
- Refer to engineering drawings for electrical fixtures, specifications and details.
- Refer to engineering drawings for emergency fixture location and specification.
- Furnish and install headers at 2" below lowest adjacent ceiling height. (u.n.o.)
- All soffits and headers to be painted to match adjacent wall color. (u.n.o.)
- Existing 2x4 ACT grid and tile to remain. Repair and replace grid and tile as necessary.

RCP legend:



finish schedule:

- All rooms EXCEPT Feeding 135, Break Room 111, Restrooms, and Storage rooms to receive carpet.
- Feeding 135 and Restroom 116 to receive resilient flooring (LVT/VCT).
- Storage 113, 117, and 134 flooring to be sealed concrete.
- Break Room 111 flooring existing to remain.
- Restrooms 114 and 115 finishes existing to remain. Restrooms not in scope, existing to remain.
- New wall paint throughout, eggshell finish.
- Restroom 116 to receive epoxy paint, eggshell finish.
- All rooms receiving new flooring to receive 4" standard cove vinyl/rubber base.
- All hollow metal door frames to be painted, semi-gloss finish.
- Provide rubber/vinyl transition strip at flooring transitions.

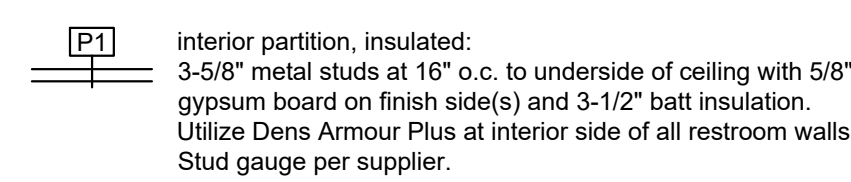
general notes:

- Double keyed locks are not permitted on any required or marked exit.
- Provide 2a-10bc fire extinguishers (min. 5 lb.) location & quantity per fire marshal.
- HVAC/emergency lighting are subject to an on site inspection.
- HVAC system to have approved interconnected, smoke detector activated, automatic shutoffs w/ the detectors located in the return duct.
- Building construction must fully comply with all requirements of ADA accessibility guidelines.
- Provide 3 1/2" batt insulation between conditioned & unconditioned spaces.
- Exit doors shall be operable from the inside without the use of a key or any special knowledge or effort.
- Provide electrical outlets @ 15" a.f.f. to the lowest outlet per ADA.
- Furr around pipes/columns as shown on plans and construction documents.
- Furnish and install ducted supply with plenum return air.
- Egress illumination will be provided at an intensity of not less than 1 foot candle at floor level & at the exterior of the building.
- Provide 44" min. clear in all exit passageways.
- Contractor may not remove/relocate any part of the building materials or components outside of the specific tenant finish area to complete the work indicated on these documents.
- Any new exterior utility service equipment shall be painted to match the building standard colors.
- Furnish and install horns & strobes as required.
- All electrical outlets within 6'-0" of any sink or water source to be GFCI protected.
- Furnish and install metal transition strip at the transition of any carpet / vct / tile surface.
- Furniture to be provided by the tenant throughout.
- Furnish and install adequate electrical for printers, copiers, fax machines, and scanners per tenant request.
- Furnish and install adequate power for owner/tenant supplied equipment and furniture. Verify requirement with owner/tenant.
- Construction materials exposed within plenums shall be noncombustible or shall have a flame spread rating of not more than 25 and a smoke developed rating of not more than 50.
- All low voltage wire and cable, optical fiber, pneumatic tubing, and all ducts and duct coverings, linings and connectors installed within plenum areas must be rated for plenum use.

keyed construction notes: #

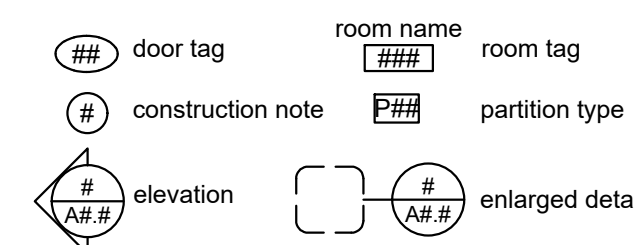
1. Existing casework relocated from adjacent tenant space. Casework and installation shall comply with ADA/ANSI requirements.
2. Existing casework to remain.
3. Remove existing door and frame, salvage for reuse. Infill opening. Align finish face of new construction with existing wall.
4. Remove existing portion of wall. Install new door and frame.
5. Existing drinking fountain to remain.
6. Existing fire extinguisher to remain. Verify quantity and location with Fire Marshal.

partition legend:



- * Expansion Joint Note: Expansion joints shall be installed at a max. of 30'-0". Joints shall also be located to coordinate with anticipated building movement, structural elements, and substrate transitions.
- * Wet Wall Note: Utilize Den Armour Plus in all plumbing wet walls and all walls adjacent to plumbing walls or where anticipated to be in contact with moisture.

symbol legend:



door & hardware notes:

- All hollow metal frames shall be 16ga. with mitered and welded corners.
- All doors to be reused / relocated from adjacent tenant.
- Doors with closers shall have ball bearing hinges.
- Hardware shall be heavy-duty, commercial grade, level 1 with lever handle. Match existing style/finish.
- Finish hardware shall meet article III of ADA.
- Keying and key core requirements shall be coordinated with owner prior to order of hardware.

Door(s): 01
3'-0" x 7'-0" x 1-3/4" solid core wood door, finished to match existing, in welded hollow metal frame, painted.
Hardware - Passage lockset, closer with hold open, wall stop, and silencers.

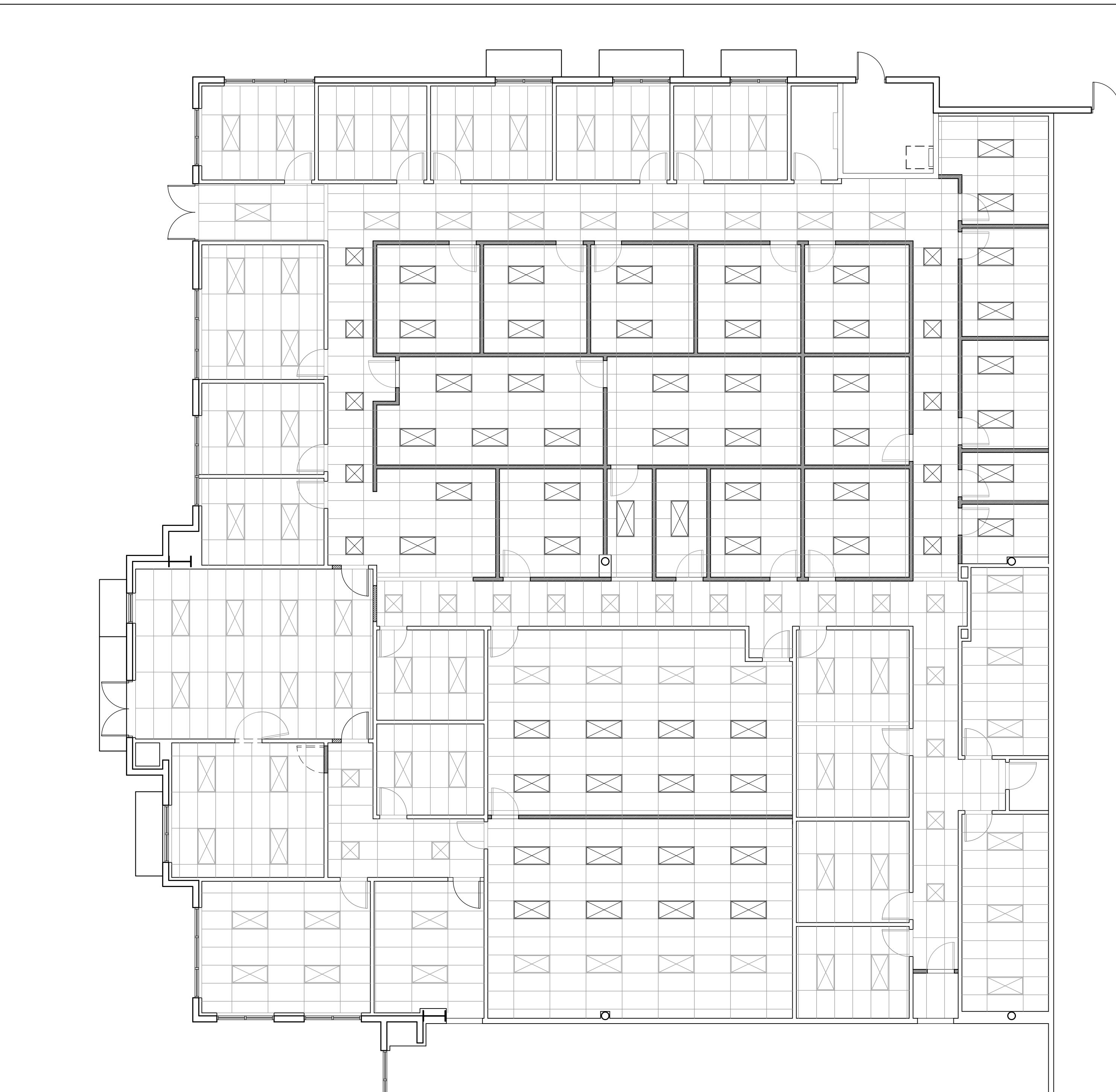
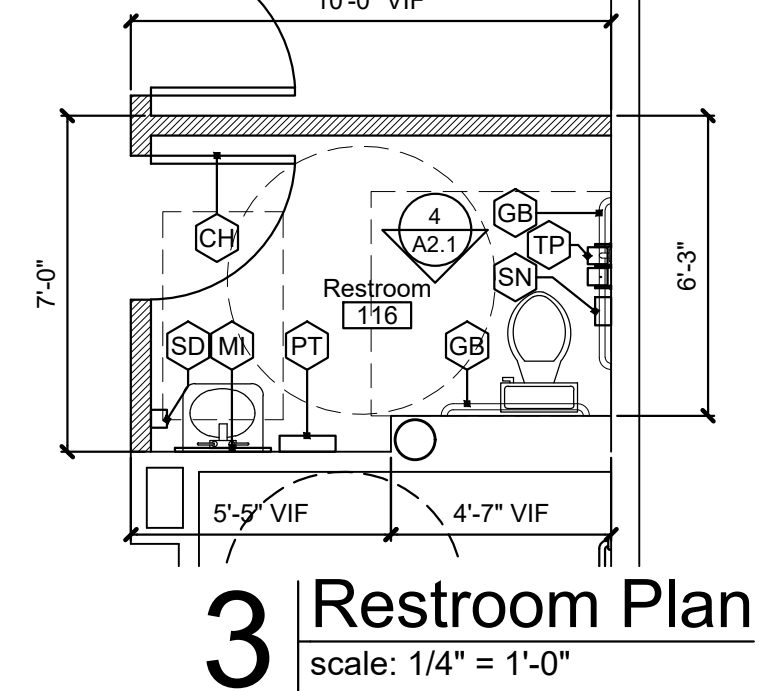
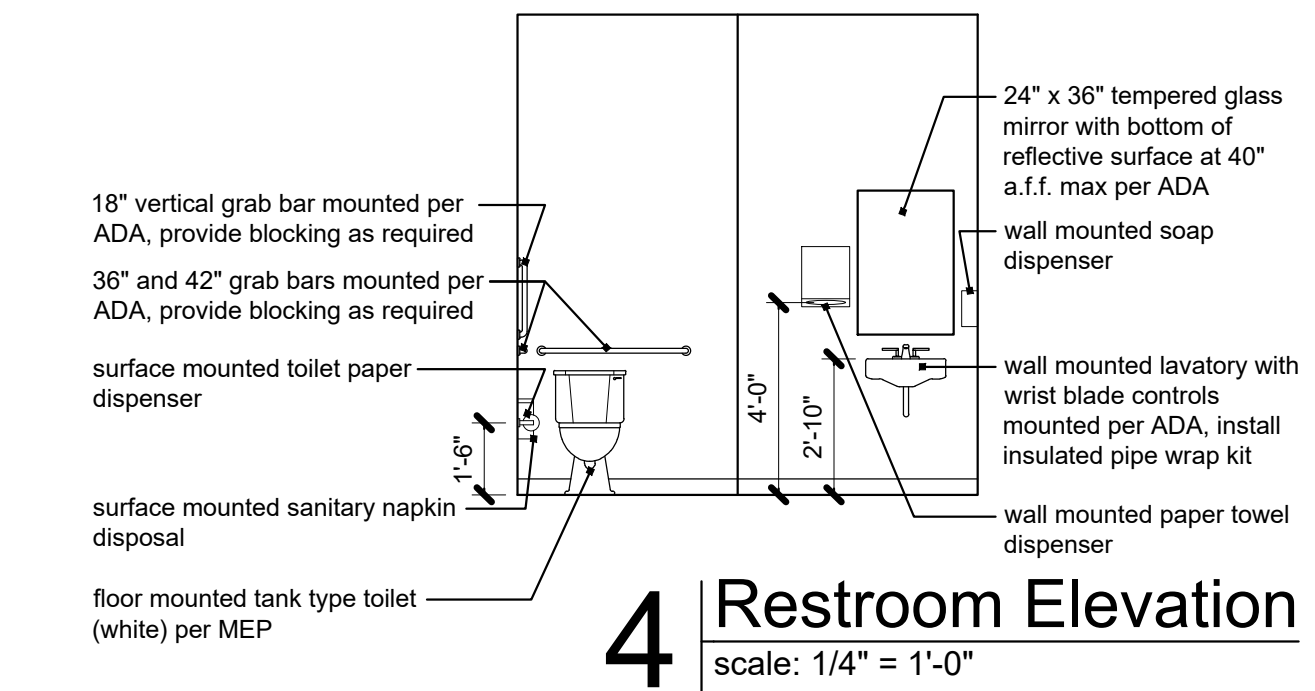
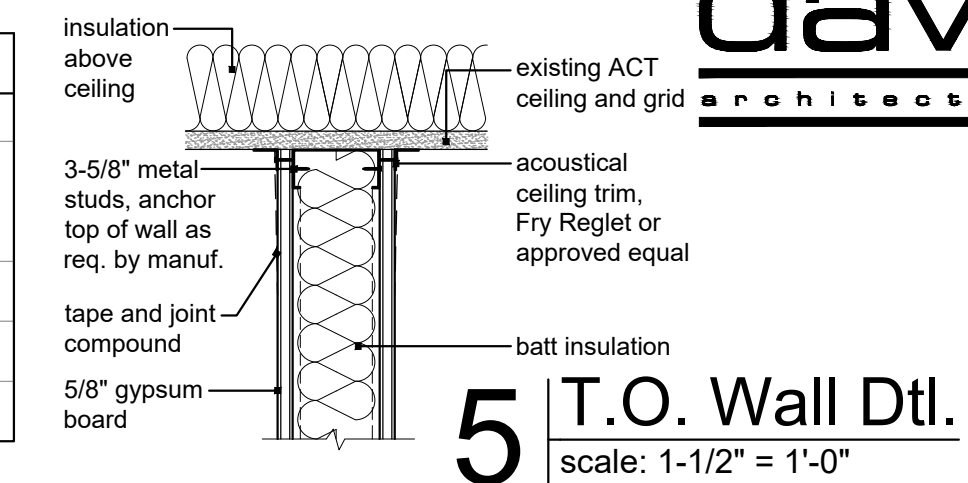
Door(s): 07, 39A, 38B, 40
3'-0" x 7'-0" x 1-3/4" solid core wood door, finish to match existing, in welded hollow metal frame, painted.
Hardware - Passage lockset, closer with hold open, wall stop, kick plate, and silencers.

Door(s): 13, 17, 34
3'-0" x 7'-0" x 1-3/4" solid core wood door, finish to match existing, in welded hollow metal frame, painted.
Hardware - Storeroom lockset, wall stop, and silencers.

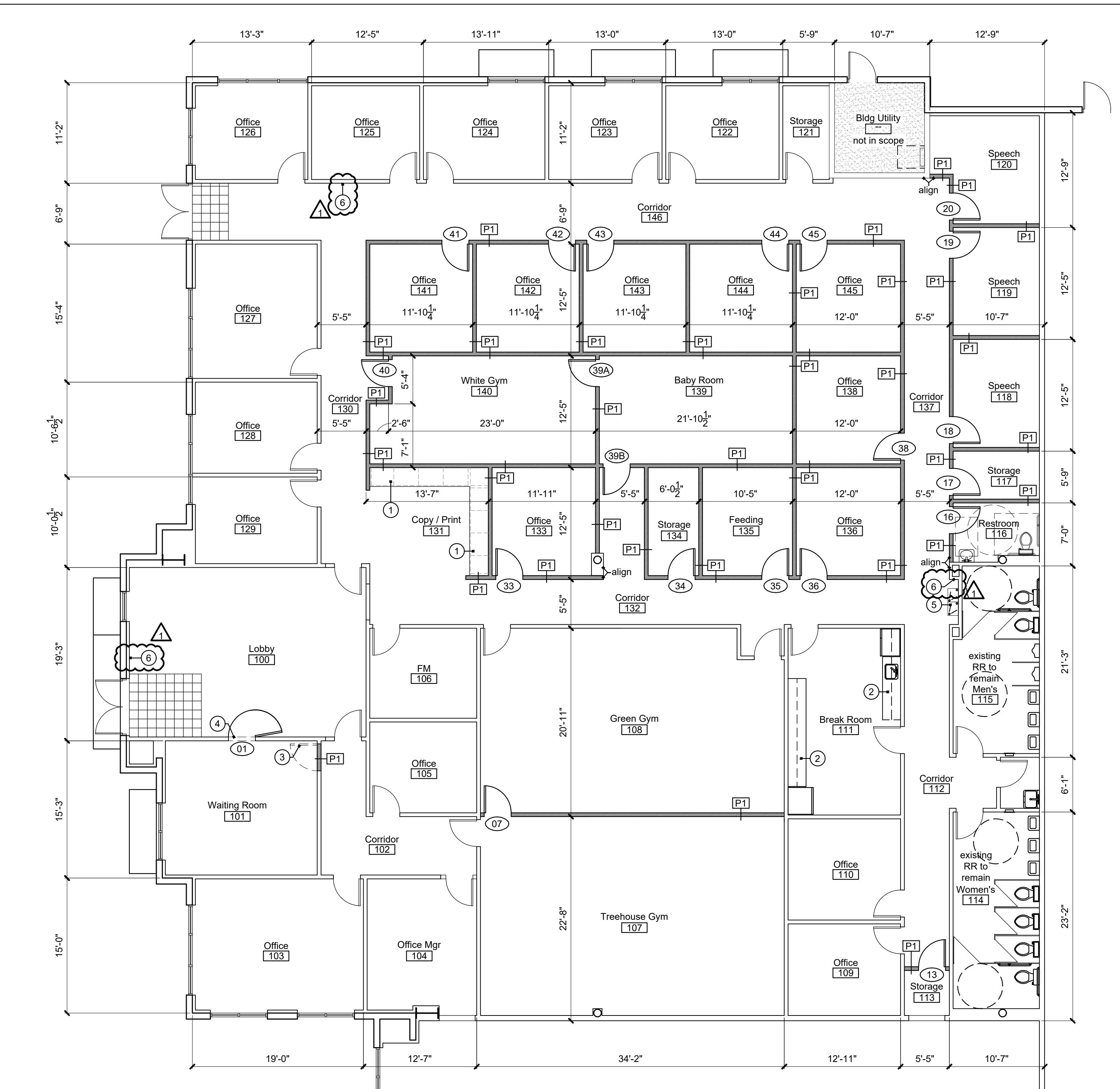
Door(s): 16, 35
3'-0" x 7'-0" x 1-3/4" solid core wood door, finish to match existing, in welded hollow metal frame, painted.
Hardware - Privacy lockset w/ occupancy indicator, wall stop, and silencers.

Door(s): 18, 19, 20, 33, 36, 38, 41, 42, 43, 44, 45
3'-0" x 7'-0" x 1-3/4" solid core wood door, finish to match existing, in welded hollow metal frame, painted.
Hardware - Office lockset, wall stop, and silencers.

Toilet Accessory Schedule	
Item	
CH Clothes Hook w/ bumper	PT Paper Towel (Manual)
GB 18" Grab Bar	SN Sanitary Napkin Disposal
36" Grab Bar	SD Soap Dispenser
42" Grab Bar	TP Toilet Tissue Dispenser
MI Mirror	



2 Reflected Ceiling Plan
scale: 1/8" = 1'-0"
north



1 Floor Plan
scale: 1/8" = 1'-0"
north



04.04.2025

a tenant finish for
Lakewood Business Park
2704 NE Independence Avenue
Lee's Summit, Missouri 64064

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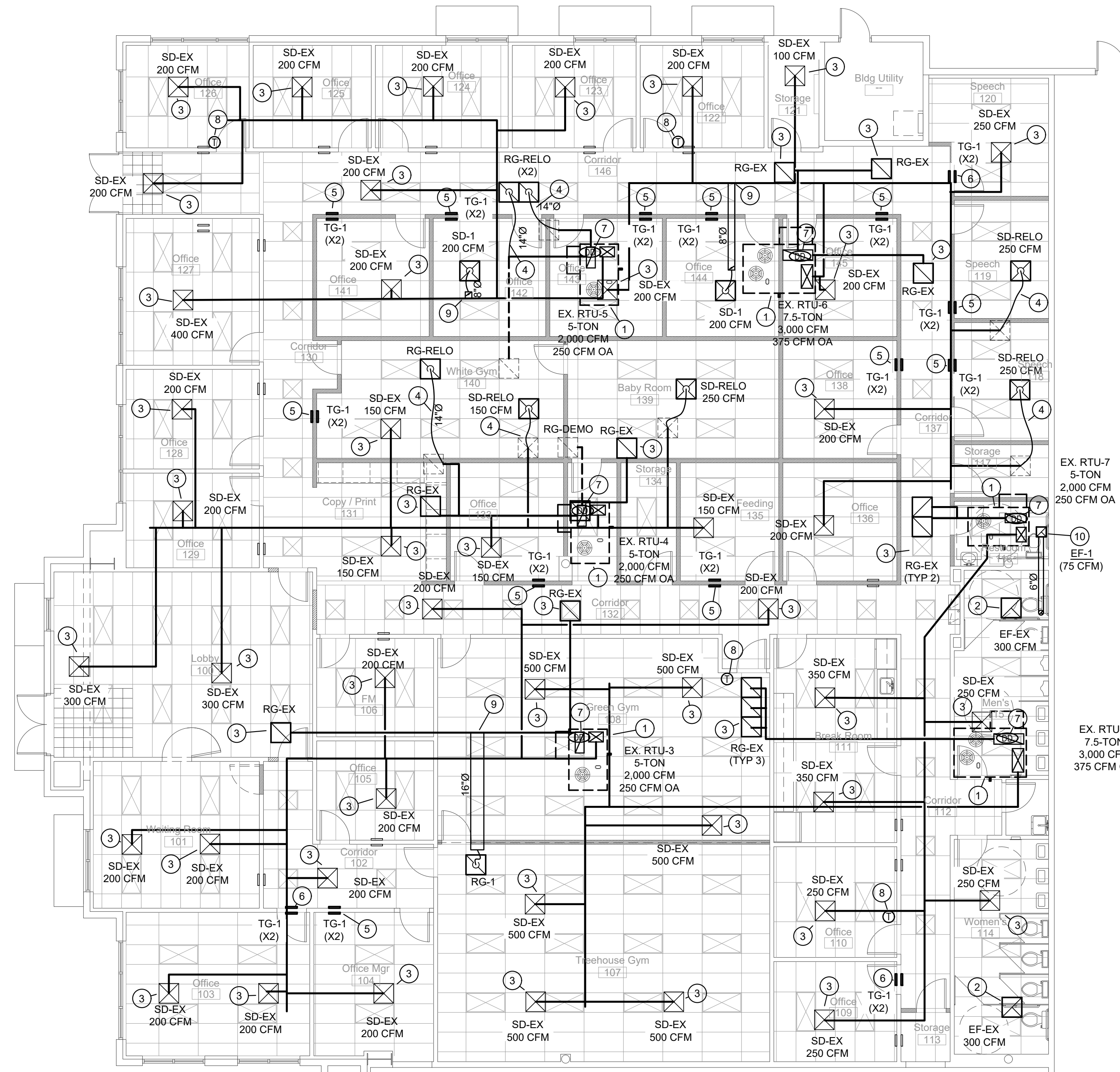


MECHANICAL GENERAL NOTES:

- COORDINATE ALL WORK WITH OTHER TRADES AND EXISTING CONDITIONS AS REQUIRED TO PROPERLY INSTALL ALL SYSTEMS AS INTENDED, WITHIN THE CONFINES OF THE SPACES AVAILABLE, AND WITHOUT INTERFERENCES.
- THIS CONTRACTOR SHALL PERFORM ALL WORK INDICATED AND/OR AS REQUIRED FOR THE PROPER INSTALLATION AND OPERATION OF THE MECHANICAL SYSTEMS.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF DIFFUSERS.
- INSTALL ALL DUCT, PIPE, ETC. AS HIGH AS POSSIBLE.
- DUCT SIZES SHOWN ARE ACTUAL SHEET METAL SIZES AND INCLUDE AN ALLOWANCE FOR DUCT LINER WHERE APPLICABLE.
- PROVIDE FLEXIBLE CONNECTION BETWEEN DUCTWORK AND ROOFTOP UNITS, EXHAUST FANS, AND OTHER MOTORIZED EQUIPMENT.
- NO DUCT SHALL BE ROUTED OVER THE TOP OF ELECTRICAL PANELS.
- ALL MECHANICAL SYSTEMS SHALL BE BALANCED BY A CERTIFIED BALANCING CONTRACTOR. REFER TO SPECIFICATIONS FOR DETAILS.

MECHANICAL SYMBOLS

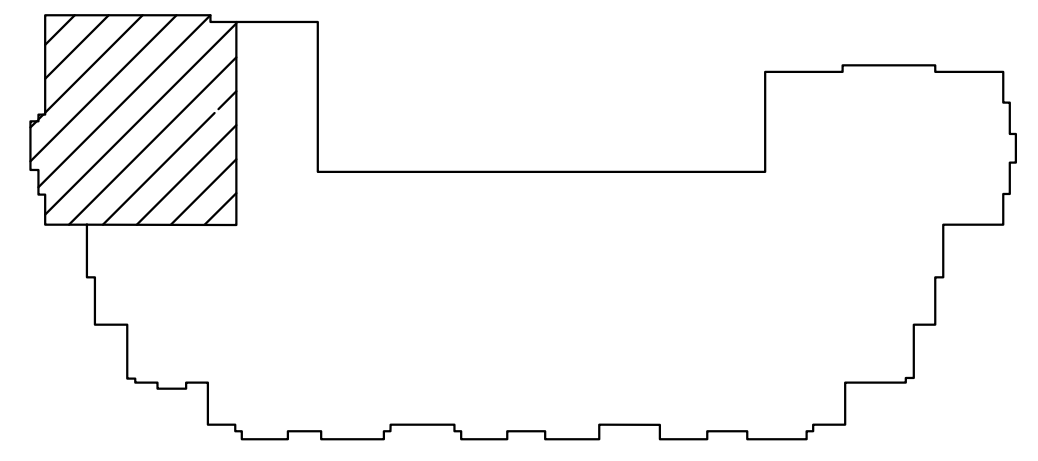
- NEW SUPPLY DIFFUSER
- NEW RETURN AIR GRILLE
- EXHAUST GRILLE/FAN
- THERMOSTAT, MOUNTED AT 48" AFF
- DUCT-MOUNTED SMOKE DETECTOR
- NEW DUCTWORK
- 32"x14" SIZE OF RECTANGULAR DUCT
- 6"Ø SIZE OF ROUND DUCT
- FLEXIBLE DUCTWORK
- FLEXIBLE CONNECTION TO FAN
- FLOOR PLAN NOTE DESIGNATION
- S.A. SUPPLY AIR
- R.A. RETURN AIR
- EXH. EXHAUST AIR
- TRANSITION IN DUCT SIZE
- ELBOW WITH TURNING VANES
- MANUAL VOLUME DAMPER
- MOTORIZED CONTROL DAMPER
- SPLITTER DAMPER WITH HORIZONTAL REGULATOR
- SUPPLY AIR DUCT UP/DOWN
- RETURN AIR DUCT UP/DOWN
- EXHAUST AIR DUCT UP/DOWN
- CHANGE IN ELEVATION UP (UP) DOWN (DN) IN DIRECTION OF FLOW
- SCHEDULED MECHANICAL EQUIPMENT
- EXIST'G DUCT TO REMAIN
- EXIST'G DUCT TO BE REMOVED
- EXISTING FLEXIBLE DUCTWORK
- 32"x14"Ø SIZE OF EXISTING DUCT
- EXISTING SUPPLY DIFFUSER



MECHANICAL FLOOR PLAN
SCALE: 1/8" = 1'-0"
NORTH

MECHANICAL PLAN NOTES:

- EXISTING ROOFTOP UNIT TO REMAIN. VERIFY UNIT IS IN PROPER WORKING ORDER AND PROVIDES REQUIRED AIRFLOW. ADJUST MINIMUM OUTDOOR AIR DAMPER ON UNIT AS REQUIRED.
- EXISTING EXHAUST FAN TO REMAIN. VERIFY UNIT IS IN PROPER WORKING ORDER AND PROVIDES REQUIRED AIRFLOW. REPAIR AND/OR REPLACE AS REQUIRED.
- EXISTING DIFFUSER/GRILLE TO REMAIN. CLEAN TO 'LIKE NEW' CONDITION AND BALANCE TO AIRFLOW INDICATED.
- RELOCATE EXISTING DIFFUSER/GRILLE WITH FLEX DUCT AS REQUIRED. CLEAN TO 'LIKE NEW' CONDITION AND BALANCE TO AIRFLOW INDICATED. VERIFY EXACT CONNECTION SIZE PRIOR TO INSTALLATION OF ANY DUCTWORK.
- PROVIDE HILO TRANSFER AIR GRILLES (TG-1). INSTALL OFFICE SIDE GRILLE 6" ABOVE FLOOR AND OPEN AREA SIDE 12" BELOW CEILING.
- PROVIDE TRANSFER AIR GRILLES (TG-1), ABOVE DOOR ON BOTH SIDES OF WALL.
- VERIFY INSTALLATION OF EXISTING DUCT-MOUNTED OR UNIT-MOUNTED SMOKE DETECTOR. INSTALL NEW IF NONE ARE PRESENT.
- VERIFY EXISTING LOCATION OF THERMOSTAT. VERIFY THERMOSTAT IS 7-DAY HEAT/COOL/AUTO-CHANGEOVER AND REPLACE AS REQUIRED. COORDINATE WITH OWNER FOR EXACT LOCATION.
- CONNECT DUCT TO EXISTING DUCT AS REQUIRED. VERIFY EXACT SIZE AND LOCATION OF EXISTING DUCT PRIOR TO INSTALLATION OF ANY DUCTWORK.
- SUPPORT FAN FROM STRUCTURE AS REQUIRED. ROUTE 6"Ø EXHAUST DUCT UP THRU ROOF TO WEATHERHEAD AS REQUIRED. OFFSET AS REQUIRED TO MAINTAIN 10'-0" CLEARANCE FROM ALL OUTDOOR AIR INTAKES, SEAL PENETRATION WEATERTIGHT.



KEYPLAN
SCALE: NONE

BC PROJECT #: 25215
MISSOURI PE COA #2009003629
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2704 Independence Avenue
Lee's Summit, Missouri 64064

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checked by ek/ds
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sheet number

M1.1

drawing type permit

project number 25060

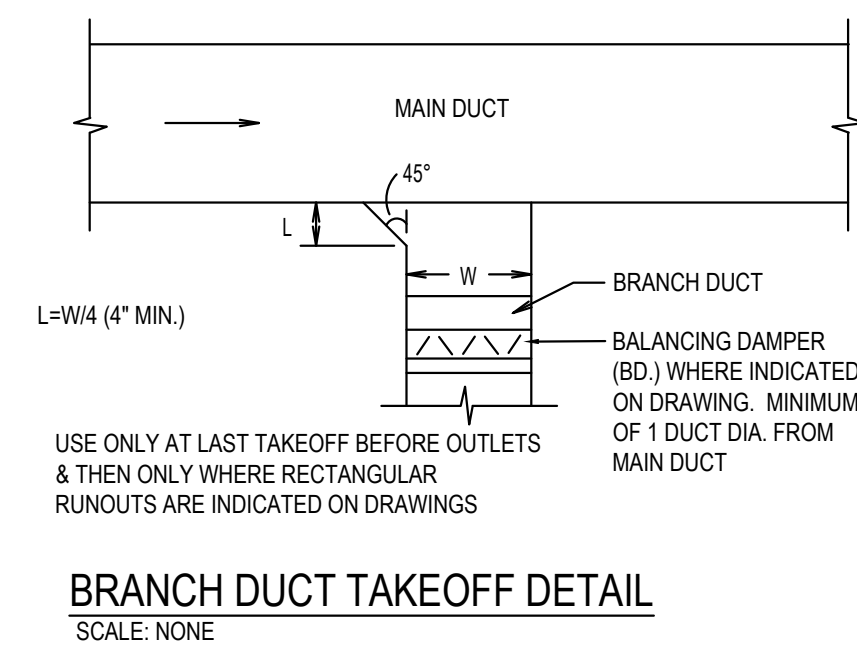
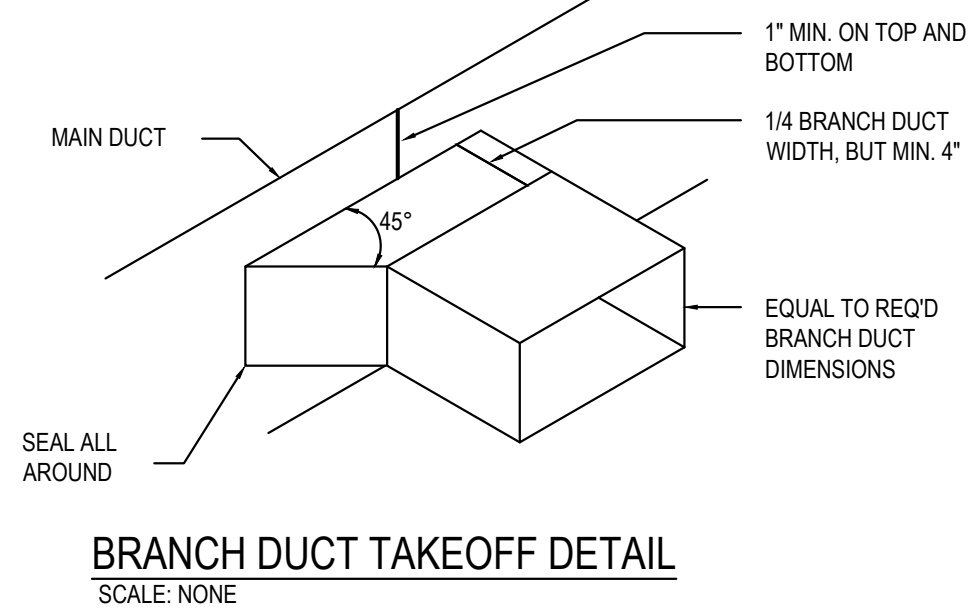
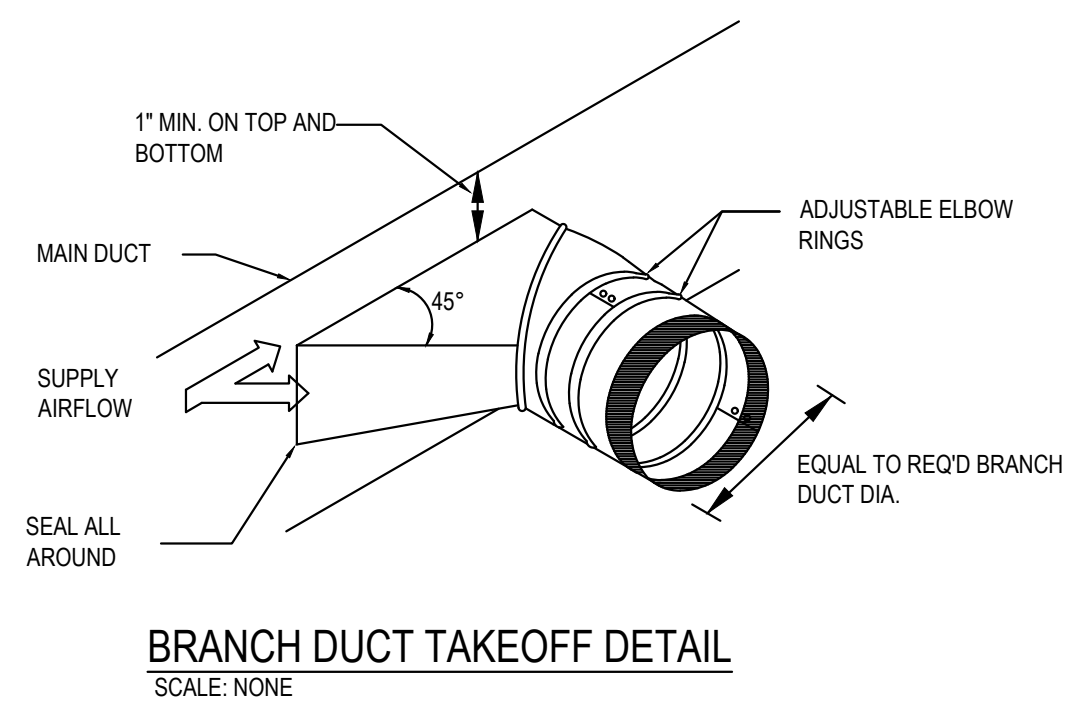
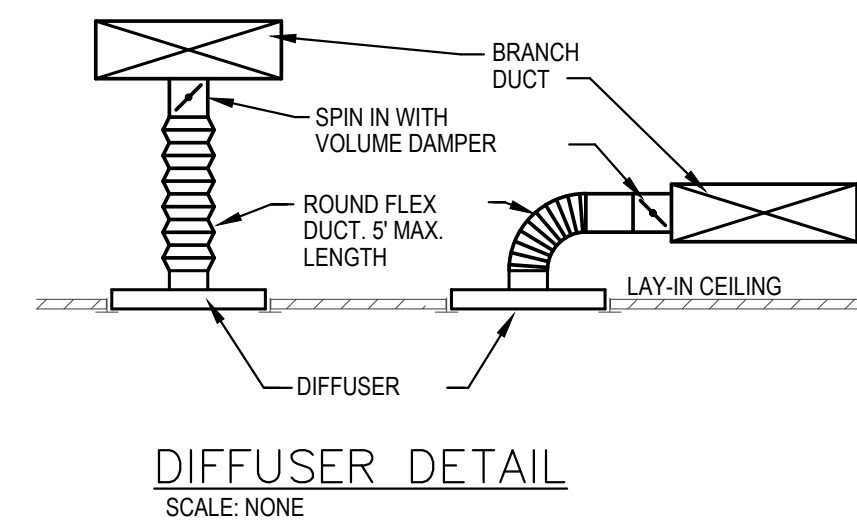


OUTDOOR AIR CALCULATIONS										
UNIT	Area (sqft)	OCCUPANCY CLASSIFICATION	Occupant Density #/1000 sqft	People outdoor airflow rate in breathing zone, (Rp) cfm/person	Area outdoor airflow rate in breathing zone, (Ra) cfm/sqft	Exhaust airflow rate cfm/sqft	Breathing zone outdoor airflow (Vbz)	Zone air distribution effectiveness (Ez)	Zone outdoor airflow (cfm)	
EXISTING RTU-3 THRU RTU-7	Education									
	255	Day care (through age 4)	25	10	0.18		110	0.8	137	
	430	Classrooms (ages 5-8)	25	10	0.12		159	0.8	199	
	Offices									
	3110	Office spaces	5	5	0.06		264	0.8	330	
	260	Reception areas	30	5	0.06		55	0.8	68	
	255	Break Room	25	5	0.06		47	0.8	59	
	490	Main entry lobbies	10	5	0.06		54	0.8	67	
	Public spaces									
	1450	Corridors	0	0	0.06		87	0.8	109	
	530	Toilet rooms public	0	0	0	5/10	0	0.8	0	
	Sports and amusement									
	1710	Gym, stadium, arena (play area)	7	20	0.18		547	0.8	684	
										Total

EXHAUST FAN SCHEDULE										
MARK	MFR	MODEL	CFM	EXTERNAL STATIC P. IN. WG.	RPM	ELECTRICAL		FAN TYPE	CONTROLS	NOTES
						VOLT/Ø/PHZ	PWR			
EF-1	COOK	GC-128	75	0.25	750	120/1/60	29 W	CEILING EXH.	SWITCH	1

NOTES: 1. PROVIDE CEILING GRILLE, INTEGRAL BACK DRAFT DAMPER, VARI-SPEED CONTROLLER (NEAR FAN AND ABOVE CEILING), FACTORY MEANS OF DISCONNECT AND WEATHER HEAD.

DIFFUSER SCHEDULE									
MARK	MFR	MODEL	BORDER TYPE	NECK SIZE	FACE SIZE	FINISH	DAMPER	ACCESSORIES	NOTES
SD-1	TITUS	TMS	3	8"Ø	24"x24"	WHITE	-	-	-
RG-1		PAR		16"Ø	24"x24"				
TG-1		350RL		14"x8"					



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drawn by sp/rc
checked by ek/ds
revisions

sheet number
M2.1
drawing type permit
project number 25060



PLUMBING GENERAL NOTES:

1. INSTALL ALL PIPE, ETC. AS HIGH AS POSSIBLE.
2. COORDINATE ALL WORK WITH OTHER TRADES AND EXISTING CONDITIONS AS REQUIRED TO PROPERLY INSTALL ALL SYSTEMS AS INTENDED, WITHIN THE CONFINES OF THE SPACES AVAILABLE, AND WITHOUT INTERFERENCES.
3. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND MOUNTING HEIGHTS OF FIXTURES.
4. REFER TO ARCHITECTURAL & STRUCTURAL DRAWINGS FOR REQUIREMENTS FOR SUPPORTING PIPING, EQUIPMENT, ETC. FROM THE STRUCTURE. PROVIDE ADDITIONAL STEEL AS REQUIRED TO PROPERLY SUPPORT SYSTEMS FROM THE STRUCTURE.
5. SAWCUT EXISTING FLOOR AS REQUIRED FOR INSTALLATION OF UNDERFLOOR PIPING. PATCH FLOOR TO MATCH EXISTING.
6. NO PIPING SHALL BE ROUTED OVER THE TOP OF ELECTRICAL PANELS.
7. ALL MATERIALS WITHIN PLENUMS SHALL BE NONCOMBUSTIBLE OR SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E 84.
8. CONTRACTOR TO TEST WATER PRESSURE ON SITE AND PROVIDE PRESSURE REDUCING VALVE ON WATER SERVICE IF PRESSURE IS OVER 80 PSI.
9. ALL WATER SERVICE INSTALLATIONS INCLUDING BACKFLOW DEVICES ARE SUBJECT TO FIELD VERIFICATION AND APPROVAL BY THE WATER DEPARTMENT INSPECTOR.

FIRE PROTECTION NOTES:

1. THE EXISTING SPACE IS PROTECTED WITH AN EXISTING WET PIPE SPRINKLER SYSTEM. RELOCATE AND PROVIDE ADDITIONAL SPRINKLER HEADS AND PIPING AS REQUIRED FOR THE NEW CONSTRUCTION. SPRINKLER HEADS IN FINISHED CEILINGS SHALL BE SEMI-RECESSED PENDENT TYPE (VERIFY FINISH). SPRINKLER HEADS IN ROOMS WITHOUT CEILINGS SHALL BE UPRIGHT BRASS TYPE HEADS.
2. SPRINKLER WORK SHALL BE PERFORMED BY A LICENSED SPRINKLER CONTRACTOR PRE-APPROVED BY THE OWNER/LANDLORD.
3. REFER TO ARCHITECTURAL DRAWINGS FOR NEW WALL CONSTRUCTION.
4. SPRINKLER PIPING SHALL MATCH EXISTING AND COMPLY WITH NFPA 13.
5. SPRINKLER SYSTEM (SHOP DRAWINGS) SHALL BE APPROVED BY THE LOCAL FIRE AUTHORITY AND OWNER'S/LANDLORD'S INSURANCE CARRIER PRIOR TO START OF WORK.

PLUMBING FIXTURE SCHEDULE:

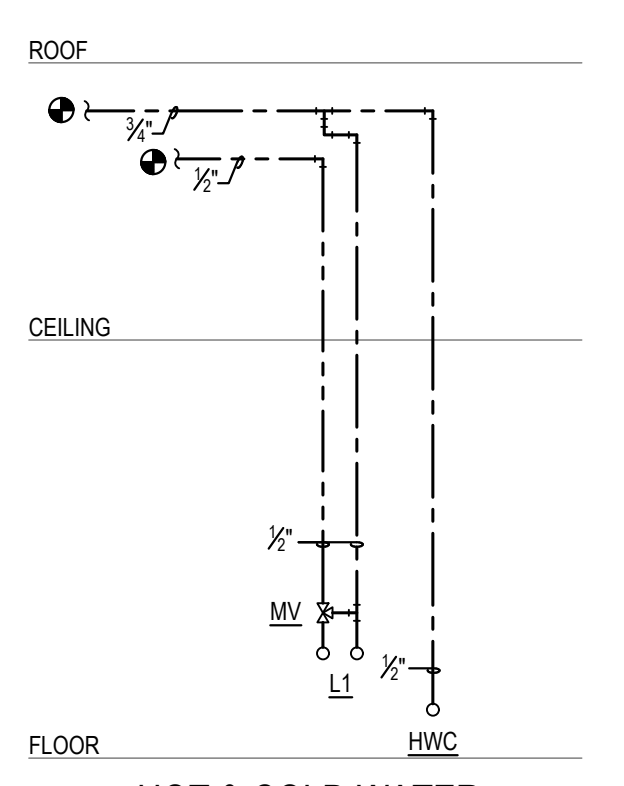
HW/C	HANDICAP WATER CLOSET: TOTO, #CST744SL, "DRAKE CLOSE COUPLED TOILET", 1.6 GALLON FLUSH, 16-1/2" HIGH ELONGATED BOWL, FLOOR MOUNTED, FLOOR OUTLET, TANK TYPE, VITREOUS CHINA, SIPHON-JET ACTION, #SC534 OPEN FRONT SEAT WITH CHECK HINGE AND LESS COVER, CHROME PLATED ANGLE STOP AND RISER, HANDLE ON WIDE SIDE OF FIXTURE.
LI	HANDICAP LAVATORY, WALL HUNG; AMERICAN STANDARD, #0355.012, "LUGERNE", 20"X18", VITREOUS CHINA, FRONT OVERFLOW, #2385.130 VANDAL-RESISTANT FAUCET WITH SINGLE METAL LEVER HANDLE #723.018 OFFSET GRID ELBOW DRAIN AND 1-1/4" TAILPIECE, CHROME PLATED CAST BRASS P-TRAP WITH CLEANOUT (MOUNTED PARALLEL WITH WALL), CHROME PLATED ANGLE STOPS AND RISERS, AND CONCEALED ARM FLOOR MOUNTED FIXTURE SUPPORT, INSULATE EXPOSED DRAIN, WATER SUPPLIES, AND VALVES WITH PROWRAP SEAMLESS MOLDED CLOSED CELL VINYL INSULATION.
FD	FLOOR DRAIN: JR SMITH, #2005-A, CAST IRON FLOOR DRAIN WITH ADJUSTABLE TOP, 6" NIKALOY STRAINER. PROVIDE WITH #2692 QUAD CLOSE TRAP SEAL DEVICE.
MV	MIXING VALVE: WATTS, #LFUSG-B, THERMOSTATIC CONTROLLED MIXING VALVE, LEAD FREE BRONZE BODY, LOCKED TEMPERATURE ADJUSTMENT CAP (VANDAL RESISTANT), COPPER ENCAPSULATED THERMOSTAT ASSEMBLY WITH BRASS SHUTTLE, STAINLESSSTEEL SPRINGS, INTEGRAL CHECK VALVES ON HOT AND COLD INLETS. (SET TO 110°F), ASSE 1070 LISTED.

PLUMBING SYMBOLS

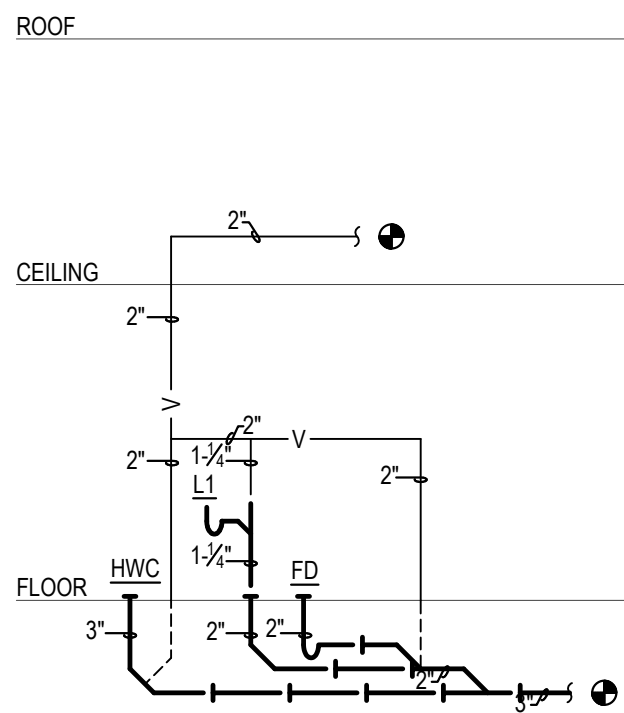
- SOIL AND WASTE PIPING BELOW FLOOR/GRADE
- SOIL AND WASTE PIPING ABOVE FLOOR/GRADE
- V— SANITARY VENT PIPING ABOVE GRADE
- V— SANITARY VENT PIPING BELOW GRADE
- DOMESTIC COLD WATER PIPING
- DOMESTIC HOT WATER PIPING
- D— EQUIPMENT DRAIN LINE
- PIPING TURNING DOWN
- PIPING TURNING UP
- |— TEE TOP CONNECTION
- |— UNION
- X— BACKFLOW PREVENTER
- FD ○ FLOOR DRAIN
- FCD □ FLOOR CLEAN OUT
- WCO — WALL CLEAN OUT
- VALVE
- BALANCING VALVE
- SOLENOID VALVE
- PRESSURE REGULATOR
- CHECK VALVE
- CONNECT TO EXISTING
- I.E. INVERT ELEVATION OF PIPE
- MATCH MARKS ON PLUMBING RISER DIAGRAM

PLUMBING FIXTURE BRANCH PIPING SCHEDULE				
FIXTURE	WASTE	VENT	CW	HW
WATER CLOSET (TANK TYPE)	3"	2"	1/2"	--
LAVATORY	1-1/4"	1-1/4"	1/2"	1/2"
FLOOR DRAIN	2"	2"	--	--

NOTE: INDIVIDUAL VENTS FOR FIXTURES ON PLANS AND RISER DIAGRAMS HAVE BEEN INCREASED WHERE HORIZONTAL VENT LENGTH IS IN EXCESS OF THE MAXIMUM DISTANCE INDICATED BY THE CODE.



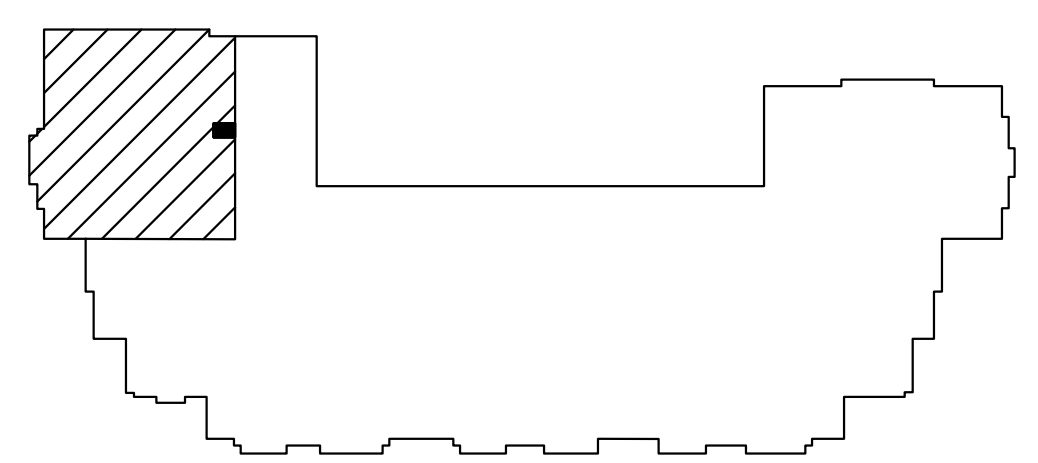
HOT & COLD WATER



WASTE & VENT

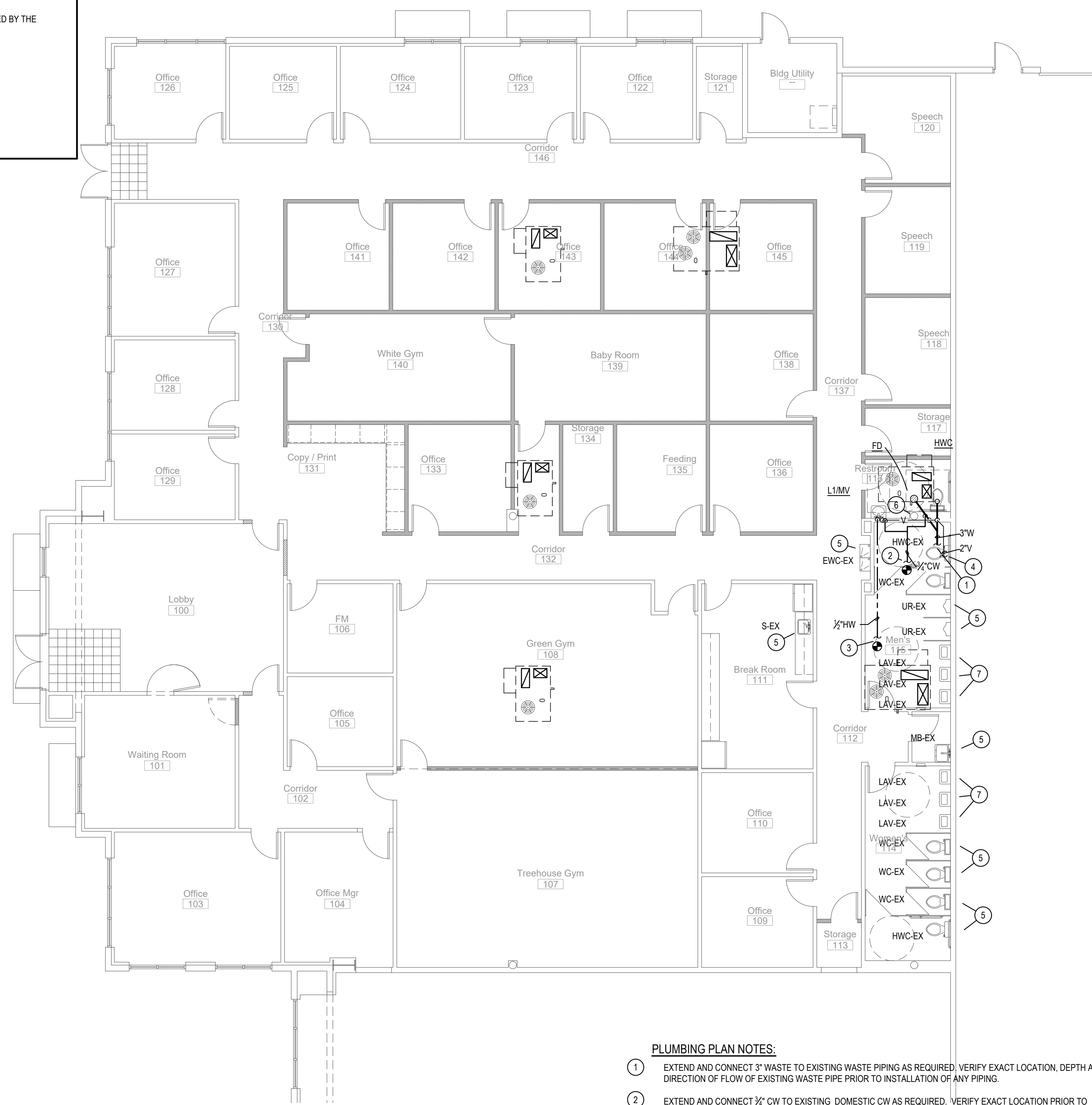
PLUMBING RISER DIAGRAMS

SCALE: NONE



KEYPLAN

SCALE: NONE



PLUMBING FLOOR PLAN

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



PLUMBING PLAN NOTES:

1. EXTEND AND CONNECT 3" WASTE TO EXISTING WASTE PIPING AS REQUIRED. VERIFY EXACT LOCATION, DEPTH AND DIRECTION OF FLOW OF EXISTING WASTE PIPE PRIOR TO INSTALLATION OF ANY PIPING.
2. EXTEND AND CONNECT 3/4" CW TO EXISTING DOMESTIC CW AS REQUIRED. VERIFY EXACT LOCATION PRIOR TO INSTALLATION OF ANY PIPING.
3. EXTEND AND CONNECT 1/2" HW TO EXISTING DOMESTIC HW AS REQUIRED. VERIFY EXACT LOCATION PRIOR TO INSTALLATION OF ANY PIPING.
4. EXTEND AND CONNECT 2" VENT TO EXISTING VENT PIPING AS REQUIRED. VERIFY EXACT LOCATION PRIOR TO INSTALLATION OF ANY PIPING.
5. EXISTING PLUMBING FIXTURE TO REMAIN. CLEAN TO LIKE NEW CONDITION.
6. COORDINATE EXACT ROUTING OF PIPING TO AVOID EXISTING COLUMN/FOOTING.
7. EXISTING PLUMBING FIXTURE TO REMAIN. CLEAN TO LIKE NEW CONDITION. VERIFY LAVATORY HAS ASSE 1070 LISTED MIXING VALVE (SET TO 110°F), INSTALL NEW IF NONE ARE PRESENT.

BC PROJECT #: 25215
MISSOURI PE COA #2009003629

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ELECTRICAL SPECIFICATIONS

1. GENERAL PROVISIONS:
 - A. PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, NECESSARY FOR THE COMPLETE INSTALLATION OF THE ELECTRICAL SYSTEMS OUTLINED.
 - B. OBTAIN ALL PERMITS, FEES, LICENSES, INSPECTIONS, AND CERTIFICATES OF COMPLIANCE OR APPROVAL AS REQUIRED BY THE AUTHORITIES.
 - C. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST APPROVED EDITION OF THE NATIONAL ELECTRIC CODE (NEC) AND ALL APPLICABLE LAWS, CODES AND REGULATIONS OF THE GOVERNMENTAL BODIES HAVING JURISDICTION OVER THE SITE.
 - D. ALL TESTING REQUIRED BY AUTHORITIES SHALL BE CONSIDERED PART OF THIS WORK.
 - E. DURING CONSTRUCTION, ALL FIXTURES, EQUIPMENT, CONDUIT, ETC. SHALL BE COVERED, PLUGGED, OR CAPPED AS REQUIRED TO KEEP CLEAN AND UN Damaged. ALL Damaged ITEMS SHALL BE RESTORED TO ORIGINAL CONDITION OR REPLACED. ALL PROTECTIVE COVERINGS SHALL BE REMOVED BEFORE FINAL ACCEPTANCE.
 - F. PROVIDE ALL NECESSARY CUTTING AND PATCHING OF WALLS, FLOORS, CEILINGS, AND ROOFS AS NECESSARY. PATCH AROUND ALL OPENINGS SHALL MATCH ADJACENT AREA. COORDINATE ALL ROOFING WORK WITH OWNER OR RESPONSIBLE PARTY, SO THAT THE EXISTING ROOFING WARRANTY WILL BE MAINTAINED.
 - G. CONTRACTOR SHALL GUARANTEE ALL WORK AND MATERIALS AGAINST DEFECTS FOR A PERIOD OF ONE YEAR FROM FINAL ACCEPTANCE.
 - H. CONTRACTOR SHALL PROVIDE ACCESS PANELS WHERE NECESSARY FOR CONCEALED ELECTRICAL COMPONENTS.
 - I. CONTRACTOR SHALL PROMPTLY CALL ENGINEERS ATTENTION TO ANY APPARENT CONTRADICTIONS, AMBIGUITIES, ERRORS, DISCREPANCIES, OR OMISSIONS IN THE PLANS OR SPECIFICATIONS.
2. OPERATION AND MAINTENANCE MANUALS:
 - A. DURING THE COURSE OF CONSTRUCTION, COLLECT AND COMPILE OPERATING INSTRUCTIONS, WIRING DIAGRAMS, CATALOG CUTS, LUBRICATION AND PREVENTIVE MAINTENANCE INSTRUCTIONS, PARTS LISTS, ETC. FOR ALL EQUIPMENT FURNISHED UNDER THIS CONTRACT.
 - B. ALL LITERATURE AND INSTRUCTIONS SHIPPED WITH THE EQUIPMENT SHALL BE SAVED FOR INCLUSION IN THE OPERATION AND MAINTENANCE MANUALS.
 - C. ALL LITERATURE LISTED ABOVE AND ALL PAPERS LISTING WARRANTIES, ETC. SHALL BE COLLATED AND LABELED WITH THE PROJECT NAME, ADDRESS, ARCHITECT, ENGINEER, CONTRACTORS, ETC. DOCUMENTS SHALL BE COMPILED AND BOUND IN DIGITAL FILE OR 3 RING BINDER.
3. MANUFACTURERS:
 - A. MANUFACTURERS, MODEL NUMBERS, ETC. INDICATED OR SCHEDULED ON THE DRAWINGS SHALL BE INTERPRETED AS HAVING ESTABLISHED A STANDARD OF QUALITY AND SHALL NOT BE CONSTRUED AS LIMITING COMPETITION. ARTICLES, FIXTURES, ETC. OF EQUAL QUALITY BY MANUFACTURERS SHALL BE ACCEPTABLE. SUBJECT TO STRUCTURAL AND ELECTRICAL CONSTRAINTS OF THE PROJECT DESIGN, UNLESS NOTED OTHERWISE.
4. TESTING AND BALANCING:
 - A. ALL CIRCUITS SHALL BE TESTED FOR CONTINUITY, SHORTS, AND GROUNDS BEFORE CONNECTING TO THE PROPER PHASE AS DESIGNED TO BALANCE THE LOADING BETWEEN PHASES.
 - B. POWER AND LIGHTING PANELS SHALL BE PROPERLY PHASED TO DISTRIBUTE THE LOAD AND SHALL BE CONNECTED AND ADJUSTED TO OPERATE AS SPECIFIED.
 - C. ALL MOTORS AND SIMLAR EQUIPMENT SHALL BE CHECKED FOR PROPER PHASE ROTATION AND OPERATION.
5. RACEWAYS:
 - A. CONDUIT INSIDE THE BUILDING SHALL BE METALLIC TUBING (EMT), BEARING THE UL LABEL WITH COMPRESSION TYPE FITTINGS OR SCREW SET FITTINGS.
 - B. CONDUIT EXPOSED TO THE WEATHER, INSTALLED UNDERGROUND, IN CONCRETE, OR USED FOR SERVICE ENTRANCE SHALL BE STANDARD RIGID CONDUIT (GALVANIZED) WITH THREADED FITTINGS.
 - C. UNDERGROUND CONDUIT MAY BE POLYVINYL CHLORIDE WITH A DEFLECTION TEMPERATURE UNDER LOAD AT 264 PSI OF 78 DEGREES C, AND A TENSILE STRENGTH OF 5,200 PSI. JOINTS SHALL BE FLUSH SOLVENT WELDED IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS. CONDUIT SHALL BE EQUAL TO CARBON POWER AND COMMUNICATIONS DUCT TYPE 2B (PREFECT BUSHAL). CONDUIT AND FITTINGS SHALL BE PRODUCED BY THE SAME MANUFACTURER.
 - D. FLEXIBLE METAL CONDUIT SHALL ONLY BE USED FOR CONNECTIONS TO MOTORS, TRANSFORMERS, AND LIGHT FIXTURES. MAXIMUM LENGTH SHALL BE 6'-0".
6. CONDUCTORS:
 - A. WIRES SHALL BE CONTINUOUS WITHOUT SPLICES OR TAPS IN CONDUIT RUNS. ALL SPLICES SHALL BE MADE IN JUNCTION, PULL OR OUTLET BOXES. ALL WIRE SHALL BE INSTALLED IN CONDUIT, WIRERAYS, OR OTHER PROTECTIVE COVER SANCTIONED BY CODES.
 - B. CONDUCTORS FOR LIGHTING AND POWER SHALL BE COPPER, MINIMUM NO. 12 A.W.G., 600 VOLT.
 - C. NO. 10 GAUGE AND SMALLER CONDUCTORS SHALL BE TYPE THHN (WET LOCATIONS) OR THHN (DRY LOCATIONS), SOLID CONDUCTOR, UNLESS OTHERWISE INDICATED.
 - D. NO. 8 GAUGE AND LARGER CONDUCTORS SHALL BE TYPE THHN (WET LOCATIONS) OR THHN (DRY LOCATIONS), STRANDED, UNLESS OTHERWISE INDICATED.
 - E. SERVICE ENTRANCE AND PANEL FEEDER CONDUCTORS, NO. 3 GAUGE AND LARGER SHALL BE TYPE THHN-2 (WET LOCATIONS) OR THHN (DRY LOCATIONS), STRANDED COPPER, UNLESS OTHERWISE INDICATED.
7. MC CABLE:
 - A. MC CABLE SHALL CONSIST OF INTERLOCK ARMORED CABLE MADE OF THREE OR FOUR TYPE THHN SOLID (BE AWG) AND LARGES MAY BE STRANDED COPPER CONDUCTORS RATED 90°C FOR DRY LOCATIONS, WITH NYLON OR EQUIVALENT UL LISTED JACKET, PER UL STANDARD 83. THE THREE CONDUCTORS SHALL BE TWISTED TOGETHER WITH THE COPPER GROUNDING CONDUCTOR, SUITABLE FILLERS, AND WRAPPED IN BINDER TAPE. THE ASSEMBLY SHALL BE ARMORED WITH SPIRALLY WRAPPED INTERLOCKED ARMOR OF ALUMINUM OR GALVANIZED STEEL.
 - B. CABLES SHALL BE TESTED IN ACCORDANCE WITH UL STANDARD 1969 FOR TYPE MC CABLE AND RATED AT 600 VOLTS, 60 DEG. C FOR DRY LOCATIONS AND 75 DEG. C FOR WET LOCATIONS.
8. WIRING DEVICES:
 - A. WALL SWITCHES SHALL BE SPECIFICATION GRADE, QUIET TYPE, FLUSH TOGGLE SWITCH RATED FOR 20 AMPS, WITH THERMOPLASTIC COVER PLATES.
 - 1) SINGLE POLE - HUBBELL #C3121-X, OR EQUAL.
 - 2) THREE-WAY - HUBBELL #C3123-X, OR EQUAL.
 - 3) AS SPECIFIED ON PLANS.
 - B. RECEPTACLES SHALL BE SPECIFICATION GRADE, DUPLEX, GROUNDING, THREE-WIRE TYPE, RATED FOR 20 AMPS, WITH THERMOPLASTIC COVER PLATES. HUBBELL #CR332-X, OR EQUAL.
 - C. GROUND FAULT INTERRUPTER RECEPTACLES (GFI) SHALL BE HUBBELL #GF20-XL. DEVICE COVER PLATES SHALL BE AS HEREIN BEFORE SPECIFIED.
 - D. ISOLATED GROUND RECEPTACLES (IG) SHALL BE HUBBELL #CR332IG, ORANGE COLOR. DEVICE COVER PLATES SHALL BE AS HEREIN BEFORE SPECIFIED.
 - E. RECEPTACLES OUTSIDE BUILDING AND WHERE NOTED AS WEATHERPROOF, SHALL BE LISTED WEATHER-RESISTANT HUBBELL #R2T03-X OR EQUAL, AND SHALL BE INSTALLED IN A WEATHERPROOF ENCLOSURE WHICH SHALL BE INTERMATIC #WP1010AMD OR #WP1010AMD DECAST METAL WEATHERPROOF RECEPTACLE COVER. COVER SHALL BE WEATHER PROOF RATED WHILE IN USE.
9. VERIFY DEVICES AND DEVICE COVERPLATES COLOR AND STYLE WITH ARCHITECT.
9. BOXES:
 - A. HOT DIPPED GALVANIZED STEEL BOXES. PROVIDE TYPE TO SUIT CONDITIONS FOR INSTALLATION.
 - B. ALL BOXES SHALL BE FLUSH MOUNTED, UNLESS INDICATED OTHERWISE.
10. PANELBOARDS:
 - A. PANELBOARDS ARE EXISTING AND SHALL BE REUSED. PROVIDE ADDITIONAL BREAKERS AS REQUIRED TO CONNECT CIRCUITS AS SHOWN ON THE DRAWINGS. ADDITIONAL BREAKERS SHALL BE THERMAL MAGNETIC, QUICK-BREAK BOLT ON CIRCUIT BREAKERS WITH ONE HANDLE FOR SINGLE OR MULTIPLE RATINGS AND SHALL BE COMPATIBLE WITH EXISTING PANELS.
 - B. COMPLETE EXISTING DIRECTORY AS REQUIRED TO IDENTIFY NEW CIRCUIT, LISTING LOAD SERVED AND OTHER PERTINENT DATA.
11. DISCONNECTS:
 - A. DISCONNECTS SHALL BE EXTERNALLY OPERATED, QUICK-MAKE, QUICK-BREAK, SAFETY, WITH PROVISIONS FOR PAD LOCKING. FUSED AND NON-FUSED DISCONNECT SWITCHES SHALL BE PROVIDED AS INDICATED.
 - B. INDOOR SWITCHES SHALL BE NEMA 1 AND OUTDOOR SWITCHES SHALL BE NEMA 3R, UNLESS INDICATED OTHERWISE.
12. FUSES:
 - A. FUSES PROTECTING CIRCUIT BREAKER PANELS SHALL BE CURRENT LIMITING UL CLASS RK-1 FUSES WITH 200,000 AMPERES RMS SYM INTERRUPTING CAPACITY. FUSING ELEMENTS SHALL BE SILVER FOR RATINGS ABOVE 60 AMPERES.
 - B. ALL OTHER FUSES SHALL BE UL CLASS RK-5, DUAL-ELEMENT WITH A MINIMUM TIME DELAY OF 10 SECONDS AT 500% RATING. FUSES SHALL HAVE CURRENT-LIMITING SHORT-CIRCUIT LINKS AND 200,000 AMPERES RMS SYM INTERRUPTING CAPACITY. FUSING ELEMENTS SHALL BE COPPER.
13. LIGHT FIXTURES:
 - A. WHERE LIGHT FIXTURES ARE MOUNTED IN A LAY-IN CEILING, PROVIDE A MINIMUM OF 2 SUPPORT WIRES ATTACHED DIRECTLY BETWEEN EACH LIGHT FIXTURE AND THE BUILDING STRUCTURE. SUPPORT WIRES SHALL BE A MINIMUM OF 12 GAUGE GALVANIZED STEEL WIRE, SOFT ANNEALED.
 - B. FIXTURES ARE REQUIRED AT ALL LIGHTING OUTLETS SHOWN ON THE DRAWINGS. APPROVED LIGHTING FIXTURE WIRE IS REQUIRED IN ALL FIXTURES AND FIXTURE RACEWAYS. WEATHERPROOF WIRING IS REQUIRED FOR EXTERIOR FIXTURES. ALL PARTS OF FIXTURES AND WIRING SHALL BE IN ACCORDANCE WITH NEC REQUIREMENTS.
 - C. ALL FIXTURES SHALL CARRY UL AND ETL LABELS.

ELECTRICAL SPECIFICATIONS (CONTINUED)

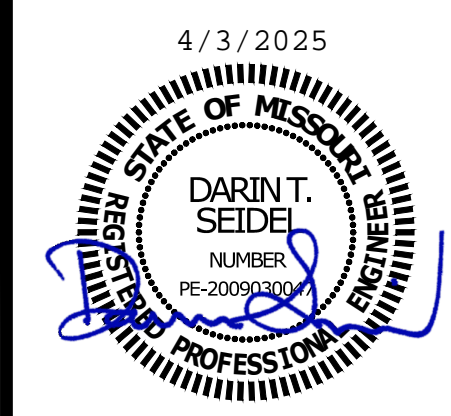
14. SLEEVES:
 - A. PROVIDE, SET, AND PROPERLY LOCATE PIPE SLEEVES AS REQUIRED FOR THIS WORK.
 - B. INTERIOR PARTITIONS: 16 GAGE GALVANIZED STEEL, PACK BETWEEN CONDUIT AND SLEEVE WITH FIRE SAFING AND CAULK AT EACH END WITH FIRE RESISTANT SEALANT.
 - C. ROOF: PROSET OR EQUAL, MANUFACTURED PVC SCHEDULE 40 PIPE SLEEVE WITH WEATHERPROOF SEAL. COORDINATE WITH ROOFING CONTRACTOR AND FLASH AS REQUIRED TO MAINTAIN ROOF WARRANTY.
15. GROUNDING:
 - A. GROUND ALL ELECTRICAL APPARATUS IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE (NEC) 250, AND ANY LOCAL REQUIREMENTS. INSURE CONTINUOUS BOND WHERE FLEXIBLE CONDUIT IS USED. PROVIDE BONDING JUMPER INSIDE ALL FLEXIBLE CONDUIT.
 - B. BOND METAL PIPING SYSTEMS IN COMPLIANCE WITH NEC 250.4(A)(4).
16. REMODELING WORK:
 - A. DEMOLITION, DISCONNECT, DEMOLISH AND REMOVE ABANDONED ELECTRICAL MATERIALS AND EQUIPMENT INDICATED TO BE REMOVED AND NOT INDICATED TO BE SALVAGED OR REMAIN.
 - B. EQUIPMENT TO BE SALVAGED:
 - 1) DISCONNECT AND REMOVE EXISTING ELECTRICAL EQUIPMENT INDICATED TO BE REMOVED AND SALVAGED. DELIVER EQUIPMENT TO THE LOCATION DESIGNATED BY THE OWNER FOR STORAGE.
 - 2) ALL MATERIALS AND EQUIPMENT DESIGNATED TO BE REUSED OR RELOCATED SHALL BE CAREFULLY REMOVED, AND STORED UNTIL NEEDED FOR REMODELING WORK. ALL ITEMS SHALL BE RESTORED TO LIKE NEW CONDITION WITH RUST OR CORROSION REMOVED, SURFACE PAINT TOUCHED UP, OR REPAINTED AS REQUIRED TO MATCH NEW CONSTRUCTION, AND THOROUGHLY CLEANED AND INSPECTED. ANY ITEMS WHICH BECOME DAMAGED BEYOND REPAIR AS A RESULT OF CONSTRUCTION OR DEMOLITION ACTIVITY SHALL BE REPLACED WITH NEW MATERIAL, EQUIVALENT IN EVERY RESPECT.
 - C. DISPOSAL AND CLEANUP: REMOVE FROM THE SITE AND LEGALLY DISPOSE OF DEMOLISHED MATERIALS AND EQUIPMENT NOT INDICATED TO BE SALVAGED.
 - D. PROTECT ADJACENT MATERIALS INDICATED TO REMAIN. INSTALL AND MAINTAIN DUST AND NOISE BARRIERS TO KEEP DRY, DUST, AND NOISE FROM BEING TRANSMITTED TO ADJACENT AREAS. REMOVE PROTECTION AND BARRIERS AFTER REMODELING OPERATIONS ARE COMPLETE.
 - E. PROVIDE ALL ALTERATIONS AND REWORK INDICATED AND/OR REQUIRED FOR THE PROPER INSTALLATION AND OPERATION OF ALL EXISTING ELECTRICAL SYSTEMS, INTEGRATING THE NEW AND EXISTING AREAS. LOCATE, IDENTIFY, AND PROTECT ELECTRICAL SERVICES PASSING THROUGH REMODELING AREA AND SERVING OTHER AREAS OUTSIDE THE REMODELING LIMITS. MAINTAIN SERVICES TO AREAS OUTSIDE REMODELING LIMITS. WHEN SERVICES MUST BE INTERRUPTED, INSTALL TEMPORARY SERVICES FOR AFFECTED AREAS.
 - 1) ABANDONED CONDUIT SHALL HAVE WIRE REMOVED AND SHALL BE CAPPED. ABANDONED OUTLETS IN WALLS OR PARTITIONS SHALL HAVE DEVICES AND WIRE REMOVED, AND SHALL BE COVERED.
 - 2) WHERE EXISTING CONDUITS TERMINATE AT AN EXISTING OUTLET IN A WALL, CEILING, OR FLOOR TO BE REMOVED, DISCONNECT AND REMOVE DEVICE AND WIRE FROM CONDUIT. CONDUIT SHALL BE CUT BACK AND CAPPED BELOW THE FLOOR OR ABOVE THE CEILING, SO NOT TO CREATE AN OBSTRUCTION. PATCH FLOOR TO MATCH EXISTING.
 - 3) WHERE EXISTING CIRCUITS EXTEND BEYOND THE OUTLET IN THE EXISTING WALL, CEILING, OR FLOOR TO BE REMOVED, FURNISH AND INSTALL NEW CONDUIT AND WIRE TO EITHER REROUTE THE CIRCUIT OR FEED THE REMAINING OUTLET(S) FROM ANOTHER ELECTRICAL SOURCE, BUT IN SUCH A MANNER AS NOT TO REUSE THE CIRCUIT. ALL REROUTED CONDUIT SHALL BE APPROVED BY THE ARCHITECT.
 - 4) WHERE EXISTING OUTLETS IN A WALL, CEILING, OR FLOOR TO BE REMOVED ARE ESSENTIAL TO MAINTAIN OPERATION OF OTHER REMAINING OUTLETS, RELOCATE THE OUTLET TO A NEW CONVENIENT LOCATION. EXISTING WIRING DEVICES SHALL NOT BE REUSED, UNLESS OTHERWISE INDICATED.
 - 5) WHERE LIGHTING FIXTURES ARE INDICATED TO BE DEMOLISHED, REMOVE ALL WIRE AND MODIFY THE EXISTING CONDUIT (IF APPLICABLE) FOR THE NEW LIGHTING. ALL UNUSED CONDUIT SHALL BE REMOVED.
 - 6) WHERE A TELEPHONE CIRCUIT EXTENDS BEYOND AN OUTLET IN AN EXISTING WALL, CEILING, OR FLOOR TO BE REMOVED, PROVIDE NECESSARY EMPTY CONDUIT AND NOTIFY THE OWNER WHO WILL REQUEST THE OWNER TO ARRANGE WITH THE TELEPHONE COMPANY FOR NEW WIRING TO OUTLETS THAT REMAIN.
 - 7) WHERE EXISTING CONDUIT AND WIRE RUNS ARE LOCATED IN OR ATTACHED TO AN EXISTING WALL, CEILING OR FLOOR TO BE REMOVED, THEY SHALL BE REROUTED IN EITHER NEW OR EXISTING CONSTRUCTION TO MAINTAIN CONTINUITY OF CIRCUITS UNLESS OTHERWISE INDICATED.
 - 8) CONDUIT SHALL BE CONCEALED WITHIN THE EXISTING BUILDING CONSTRUCTION WHEREVER POSSIBLE, EXCEPT WHERE OTHERWISE INDICATED.
 - 9) EXISTING WIRE SHALL BE DISCONNECTED AND REMOVED WHEREVER EXISTING CIRCUITS ARE ABANDONED.
17. BOXES IN FIRE RATED ASSEMBLIES:
 - A. OUTLET BOXES THAT DO NOT EXCEED 16 SQUARE INCHES AND INSTALLED IN FIRE RATED WALLS SHALL NOT BE INSTALLED CLOSER THAN 10 HORIZONTAL INCHES TO OTHER OUTLET BOXES.
 - B. IF BOXES MUST BE INSTALLED WITHIN 24" OF EACH OTHER THAN BOTH OUTLET BOXES SHALL BE PROTECTED WITH LISTED PUTTY PADS, 3/4" FIRE BARRIER MOLDABLE PUTTY + OR EQUAL.

ELECTRICAL SYMBOLS LIST	
CIRCUITING & NOTES	
+46"	SPECIAL MOUNTING HEIGHT FOR ASSOCIATED DEVICE (CENTERLINE OF DEVICE)
GFI	GROUND FAULT CIRCUIT INTERRUPTER DEVICE
WP	WEATHERPROOF ENCLOSURE ON DEVICE
R	EXISTING DEVICE TO BE RELOCATED
E	EXISTING DEVICE TO REMAIN
(TIE)	PARTIAL HOMERUN. REFER TO PLANS FOR ADDITIONAL DEVICES CONNECTED TO THIS CIRCUIT.
[X]	ELECTRICAL FLOOR PLAN NOTE WITH DESIGNATION
2 LP	CONDUIT CONCEALED WHERE POSSIBLE OR AS NOTED, ARROWS INDICATE HOME RUN TO PANEL. CIRCUIT NUMBERS INDICATED
⎓	#12 WIRE IN CONDUIT, UNLESS NOTED OTHERWISE ON DRAWINGS OR SPECIFICATION
⎓	GROUNDING CONDUCTOR, #12 WIRE UNLESS NOTED OTHERWISE ON DRAWINGS OR SPECIFICATION
⎓	CONDUIT ROUTED UNDER FLOOR/GRADE
LIGHTING	
⎓	EMERGENCY TWIN HEAD LIGHT FIXTURE
⎓	EXIT LIGHT WITH DIRECTIONAL ARROWS INDICATED
A	STRIP FIXTURE WITH TYPE DESIGNATION
A	RECESSED OR SURFACE MOUNTED FIXTURE WITH TYPE DESIGNATION
A	NIGHT LIGHT, CONNECT TO UNSWITCHED CIRCUIT
A	CEILING OR RECESSED FIXTURE WITH TYPE DESIGNATION
A	WALL MOUNTED FIXTURE WITH TYPE DESIGNATION
POWER DEVICES	
⎓	DUPLEX RECEPTACLE, BOTTOM OF BOX AT 16" AFF, UNLESS NOTED OTHERWISE
⎓	FOURPLEX RECEPTACLE, BOTTOM OF BOX AT 16" AFF, UNLESS NOTED OTHERWISE
⎓	DEVICE MOUNTED ABOVE COUNTER AND/OR SPLASH GUARD
⎓	HEAVY DUTY OUTLET - NEMA CONFIGURATION SIZE PER EQUIPMENT MANUFACTURER'S RECOMMENDATION
⎓	PANEL BOARD, TOP OF BOX 6'-0" AFF
⎓	JUNCTION BOX
⎓	NON-FUSED DISCONNECT SWITCH
⎓	FUSED DISCONNECT SWITCH
⎓	MOTOR WITH DESIGNATION
CONTROLS	
S	SINGLE POLE WALL SWITCH, TOP OF BOX AT 48" AFF
S 3	THREE-WAY WALL SWITCH, TOP OF BOX AT 48" AFF
S =	MANUAL MOTOR STARTER WITH OVERLOADS
FIRE ALARM - FIRE ALARM SYSTEM IS EXISTING TO REMAIN. PROVIDE ADDITIONAL COMPATIBLE DEVICES AND CONNECT TO EXISTING SYSTEM AS REQUIRED.	
SD	CEILING MOUNT SMOKE DETECTOR
DD	DUCT MOUNT SMOKE DETECTOR
HD	CEILING MOUNT HEAT DETECTOR
F	FIRE ALARM PULL STATION, TOP OF BOX AT 48" AFF
MA	FIRE ALARM AUDIBLE/VISUAL COMBINATION SIGNAL, CENTERLINE AT 6'-8" AFF
MA	FIRE ALARM AUDIBLE/VISUAL COMBINATION SIGNAL, CEILING MOUNTED
MA	FIRE ALARM VISUAL STROBE, CENTERLINE AT 6'-8" AFF
MA	FIRE ALARM VISUAL STROBE, CEILING MOUNTED

- ELECTRICAL GENERAL NOTES:**
1. COORDINATE ALL WORK WITH OTHER TRADES AND EXISTING CONDITIONS AS REQUIRED TO PROPERLY INSTALL ALL SYSTEMS AS INTENDED, WITHIN THE CONFINES OF THE SPACES AVAILABLE, AND WITHOUT INTERFERENCES.
 2. WHERE CONDUIT IS SHOWN UNDER FLOOR, VERIFY IF FLOOR IS STRUCTURAL SLAB OR SLAB ON GRADE. IF STRUCTURAL SLAB, CORE DRILL PENETRATION, AND ROUTE CONDUIT IN SPACE BELOW. IF SLAB ON GRADE, SAW CUT EXISTING FLOOR. SLAB AS REQUIRED FOR INSTALLATION OF UNDER FLOOR CONDUIT. NO STRUCTURAL ELEMENTS SHALL BE CORE DRILLED OR SAW CUT. WHEN SAW CUTTING, PATCH FLOOR TO MATCH EXISTING SURFACE AS REQUIRED.
 3. IT IS THE ELECTRICAL CONTRACTORS RESPONSIBILITY TO PROPERLY BALANCE ALL BRANCH CIRCUITS BETWEEN THE PHASES OF THE SYSTEM REGARDLESS OF CIRCUITING INDICATED.
 4. ALL EXPOSED RACEWAYS SHALL BE EMT CONDUIT, MC CABLE IS NOT PERMITTED IN EXPOSED AREAS.
 5. ELECTRICAL CONTRACTOR SHALL REMOVE ALL EXISTING ELECTRICAL EQUIPMENT, FIXTURES, SYSTEMS, CONDUIT AND WIRE, ETC. NOT BEING REUSED. DO NOT JUST ABANDON.
 6. ELECTRICAL CONTRACTOR TO COORDINATE MANUFACTURER ELECTRICAL REQUIREMENTS FOR HVAC EQUIPMENT BEING FURNISHED WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN. EQUIPMENT DISCONNECTS TO BE PROVIDED BY ELECTRICAL CONTRACTOR UNLESS NOTED OTHERWISE IN MECHANICAL SCHEDULES.
 7. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF LIGHT FIXTURES AND DEVICES.
 8. ALL ELECTRICAL DEVICES ARE EXISTING AND TO REMAIN UNLESS NOTED OTHERWISE OR CONFLICT WITH NEW CONSTRUCTION. MAINTAIN PROPER OPERATION OF ALL EXISTING ELECTRICAL.
 9. ALL MATERIALS EXPOSED WITHIN PLENUMS SHALL BE NONCOMBUSTIBLE OR SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E 84.
 10. EACH BRANCH CIRCUIT SHALL HAVE A DEDICATED NEUTRAL PER NEC 210.4.
 11. FIRE ALARM SYSTEM IS SHOWN FOR SCHEMATIC PURPOSES. THE FIRE ALARM CONTRACTOR IS RESPONSIBLE FOR PROVIDING DESIGN AND SHOP DRAWINGS SUBMITTAL TO FIRE MARSHAL FOR APPROVAL AS REQUIRED BY THE FIRE MARSHAL. IT IS THE CONTRACTORS RESPONSIBILITY TO PROVIDE ADDITIONAL DEVICES, POWER SUPPLIES, ETC FOR COMPLIANCE WITH CODE.
 12. PLANS INDICATE MINIMUM WIRE SIZES PER NEC. ALL BRANCH CIRCUITS SHALL BE SIZED TO ALLOW FOR A MAXIMUM OF 3% VOLTAGE DROP. ALL FEEDERS SHALL BE SIZED TO ALLOW FOR A MAXIMUM OF 2% VOLTAGE DROP. ELECTRICAL CONTRACTOR SHALL VERIFY WIRING INDICATED IS SUFFICIENT AND INCREASE CONDUCTOR SIZE AS REQUIRED BASED OFF ACTUAL INSTALLED LENGTH OF CONDUCTORS.
 13. RECEPTACLES IN DWELLING, GUEST ROOMS, AND CHILD CARE FACILITIES SHALL BE TAMPER RESISTANT PER NEC ARTICLE 406.
 14. WHEREVER POSSIBLE, CONDUIT SHALL BE RUN CONCEALED WITHIN WALLS, CEILINGS, SOFFITS, ETC. SURFACE MOUNTED CONDUIT IN FINISHED SPACES MUST BE APPROVED BY THE ENGINEER OR ARCHITECT PRIOR TO INSTALLATION. EXTERIOR CONDUIT SHALL NOT BE RUN EXPOSED IN PUBLICLY VISIBLE AREAS WITHOUT APPROVAL OF THE ARCHITECT OR ENGINEER.
 15. PER NEC RECEPTACLES IN THE FOLLOWING ROOMS SHALL BE TAMPER RESISTANT: TREEHOUSE GYM 107, GREEN GYM 108, WAITING 101, LOBBY 100, ALL CORRIDORS, FEEDING 135, BABY ROOM 139, WHITE GYM 140, SPEECH 117, 118, AND 119.



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checked by ek/ds
revisions

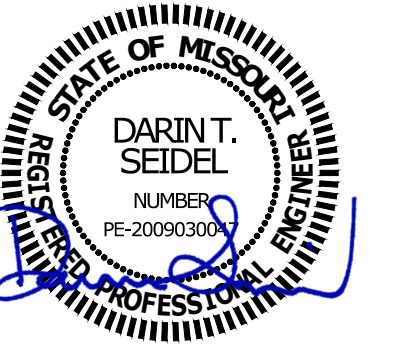
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MISSOURI PE COA #2009003629

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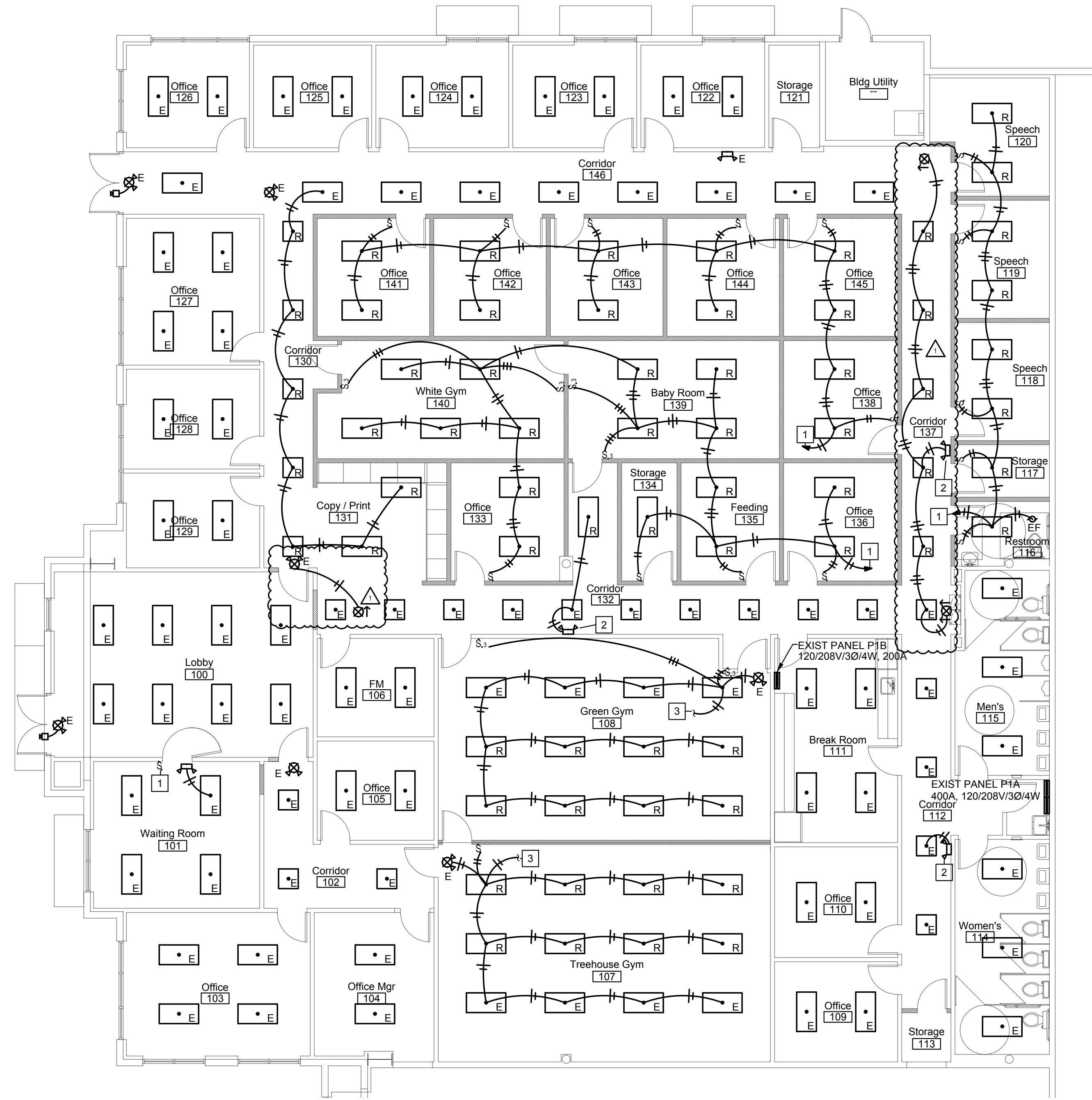
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drawing type permit
project number 25060



LIGHTING PLAN NOTES:

- 1 RECONNECT TO EXISTING 20A/1P LIGHTING CIRCUIT IN AREA WITH #12 WIRE.
- 2 CONNECT TO SWITCHED LIGHTING CIRCUIT IN AREA #12 WIRE, EMERGENCY LIGHT SHALL BE UNSWITCHED.
- 3 RECONNECT TO EXISTING LIGHTING CIRCUIT IN ROOM WITH #12 WIRE.

LIGHT FIXTURE SCHEDULE					
MARK NO.	MANUFACTURER & CATALOG NUMBER	VOLTS WATTS	LIGHT SOURCE	DESCRIPTION	EQUIVALENT MANUFACTURERS
⊗	DUAL-LITE EVE-U-R-W-E	UNV 1	INCL	EXIT LIGHT WITH LED LAMPS, RED LETTERS ON WHITE BACKGROUND, UNIVERSAL MOUNT, BATTERY BACKUP	SURE-LITES LITHONIA OR EQUAL



ELECTRICAL LIGHTING PLAN
SCALE: 1/8" = 1'-0"
NORTH

a tenant finish for
Lakewood Business Park
 2704 Independence Avenue
 Lee's Summit, Missouri 64064

date 04.03.2025
drawn by sp/rc
checked by ek/ds
revisions
 04.18.2025 △
1

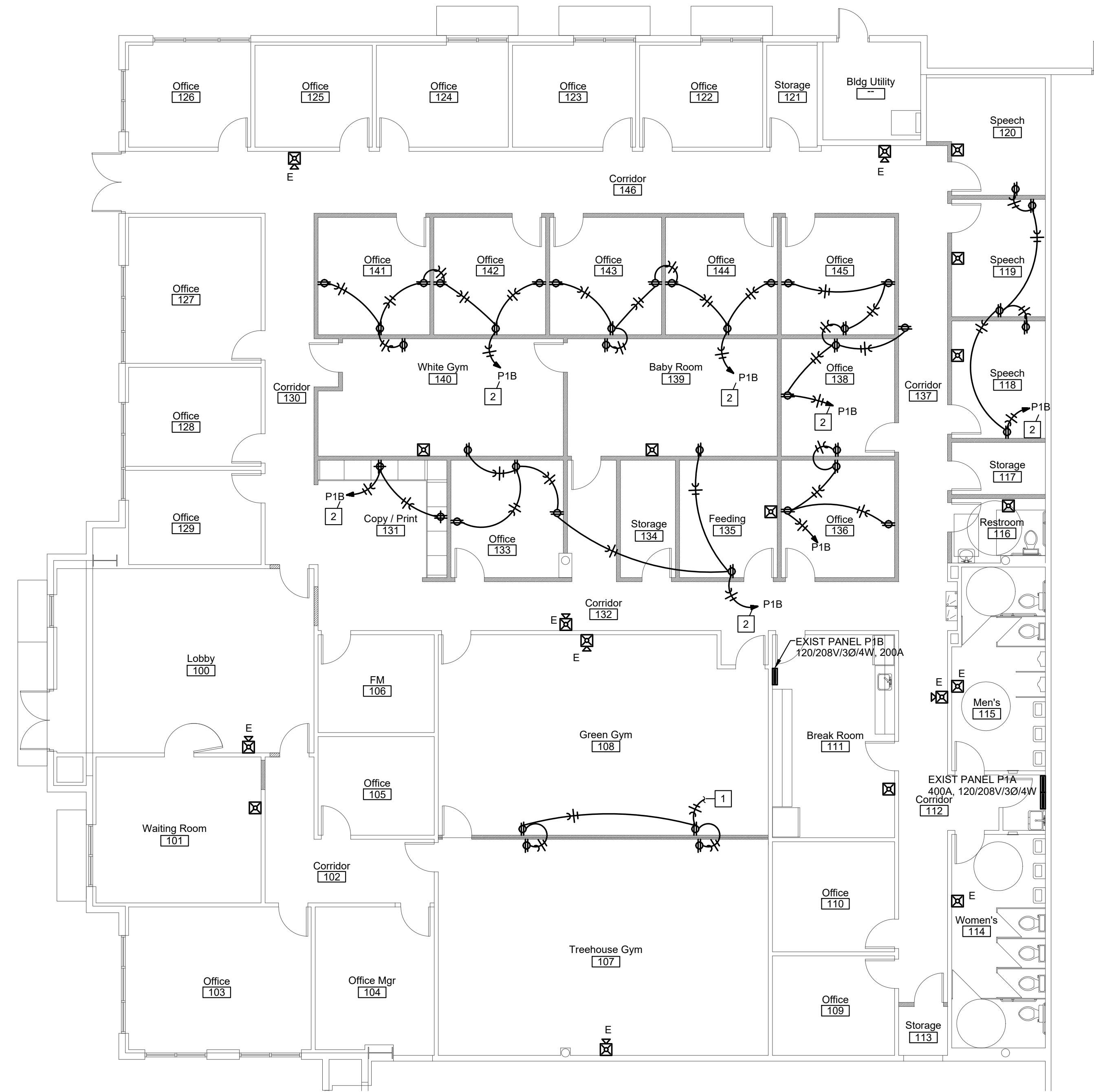
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POWER PLAN NOTES:

- 1 CONNECT TO EXISTING 120 VOLT RECEPTACLE CIRCUIT IN AREA WITH #12 WIRE.
- 2 CONNECT TO SPARE 20 AMP 1 POLE BREAKER IN EXISTING PANEL INDICATED WITH #12 WIRE. REUSE ABANDONED CIRCUITS FROM MODULAR FURNITURE.



ELECTRICAL POWER PLAN
SCALE: 1/8" = 1'-0"

a tenant finish for
Lakewood Business Park

2704 Independence Avenue
Lee's Summit, Missouri 64064

date 04.03.2025
drawn by sp/rc
checked by ek/ds
revisions

BC PROJECT #: 25215
MISSOURI PE COA #2009003629
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