PLUMBING FIXTURE SCHEDULE

TAG	DESCRIPTION	MINIMUM CW	MINIMUM HW	MINIMUM TRAP	MINIMUM SOIL OR WASTE	MINIMUM VENT
	WATER CLOSETS:					
P10	(RESIDENT) GERBER "VIPER" MODEL GVP 31518 ELONGATED BOWL, ADA COMPLIANT, FLOOR MOUNTED, WHITE, TANK TYPE, 1.6 GPF BOLT CAPS AND WHITE CLOSED FRONT SEAT WITH COVER, WITH SLOW CLOSE STAINLESS STEEL CHECK HINGES AND ANGLE SUPPLY WITH WHEEL HANDLE STOPS.	1/2"	-	-	3"	1-1/2"
P11	(PUBLIC) GERBER "VIPER" MODEL GVP 31518 ELONGATED BOWL, ADA COMPLIANT, FLOOR MOUNTED, WHITE, TANK TYPE, 1.6 GPF BOLT CAPS AND WHITE OPEN FRONT SEAT WITH COVER, WITH SLOW CLOSE STAINLESS STEEL CHECK HINGES AND ANGLE SUPPLY WITH WHEEL HANDLE STOPS.	1/2"	-	-	3"	1-1/2"
	LAVATORIES: PROVIDE COMPLETE UNDER LAVATORY ANTI-MICROBIAL WASTE AND WATER PIPING PROTECTION INSULATION KITS AS MANUFACTURERED BY PLUMBEREX SPECIALTY PRODUCTS, INC., OR TRUEBRO, INC. ON ALL HANDICAPPED LAVATORIES WHERE PIPING IS EXPOSED AND NO APRON/REMOVABLE PANEL IS PROVIDED.					
P30	(RESIDENT) LAVATORY BOWL: AMERICAN STANDARD "OVALYN" MODEL 0498.221, VITREOUS CHINA, UNDERMOUNT, 17" WIDE X 14" LONG X 5-1/2" DEEP, FRONT OVERFLOW, WHITE FINISH. FAUCET: PEERLESS MODEL P136LF-M SINGLE LEVER HANDLE, 1.0 GPM, BRUSHED NICKEL FINISH. ACCESSORIES: POP UP DRAIN.	1/2"	1/2"	1-1/4"	1-1/2"	1-1/2"
P31	(PUBLIC) LAVATORY BOWL: AMERICAN STANDARD "OVALYN" MODEL 0496.221, VITREOUS CHINA, UNDERMOUNT, 17" WIDE X 14" LONG X 5-1/2" DEEP, FRONT OVERFLOW, WHITE FINISH. FAUCET: OLYMPIA MODEL "L-6030" (1 SERIES, SINGLE HOLE, SINGLE LEVER, PROVIDE WITH 0.5 GPM AERATOR, BRUSHED NICKEL FINISH. ACCESSORIES: GRID DRAIN, WATTS MODEL LFUSG-B-M2 POINT OF USE THERMOSTATIC MIXING VALVE CONFORMING TO ASSE 1070, WITH INTEGRAL CHECK VALVES. SET MAXIMUM OUTLET TEMPERATURE TO 110 DEGREES.	1/2"	1/2"	1-1/4"	1-1/2"	1-1/2"
	SINKS: PROVIDE COMPLETE UNDER SINK ANTI-MICROBIAL WASTE AND WATER PIPING PROTECTION INSULATION KITS AS MANUFACTURERED BY PLUMBEREX SPECIALTY PRODUCTS, INC., OR TRUEBRO, INC. ON ALL HANDICAPPED SINKS WHERE PIPING IS EXPOSED AND NO APRON/REMOVABLE PANEL IS PROVIDED.					
P40	(RESIDENT) BASIN: ELKAY MODEL ELUH3220, STAINLESS-STEEL, DOUBLE BOWL, REAR CENTER DRAIN, UNDERMOUNT SINK, 31-1/4" WIDE X 20" LONG X 7-7/8" DEEP. FAUCET: PEERLESS MODEL P6930LF, SINGLE HOLE, SINGLE LEVER HANDLE, PULL DOWN SPRAY, 1.5 GPM, CERAMIC CARTRIDGE, STAINLESS-STEEL FINISH. ACCESSORIES: BASKET STRAINER DRAIN ASSEMBLY. DO NOT INSTALL INCLUDED DECKPLATE. PROVIDE CONNECTION FOR FOOD DISPOSER, WITH AIR SWITCH OPERATION. REFERENCE ARCHITECTURAL DRAWINGS / SCHEDULE FOR ADDITIONAL INFORMATION. COORDINATE AIR SWITCH LOCATION ON COUNTER SURFACE WITH ARCHITECTURAL AND ELECTRICAL.	1/2"	1/2"	1-1/2"	2"	1-1/2"
P41	(RESIDENT, ACCESSIBLE) BASIN: ELKAY MODEL ELUHAD3118, STAINLESS-STEEL, DOUBLE BOWL, REAR CENTER DRAIN, ADA COMPLIANT, UNDERMOUNT SINK, 30-3/4" WIDE X 18-1/2" LONG X 5-1/2" DEEP. FAUCET: PEERLESS MODEL P6930LF, SINGLE HOLE, SINGLE LEVER HANDLE, PULL DOWN SPRAY, 1.5 GPM, CERAMIC CARTRIDGE, STAINLESS-STEEL FINISH. ACCESSORIES: BASKET STRAINER DRAIN ASSEMBLY. PROVIDE CONNECTION FOR FOOD DISPOSER, WITH AIR SWITCH OPERATION. REFERENCE ARCHITECTURAL DRAWINGS / SCHEDULE FOR ADDITIONAL INFORMATION. COORDINATE AIR SWITCH LOCATION ON COUNTER SURFACE WITH ARCHITECTURAL AND ELECTRICAL.	1/2"	1/2"	1-1/2"	2"	1-1/2"
P42	MOP SINK: PROFLO MODEL PFMB2424, MOLDED STONE, INTEGRAL DRAIN. 24" WIDE X 24" LONG X 10" DEEP. FAUCET: ZURN MODEL Z843M1 SERVICE SINK FAUCET WITH VACUUM BREAKER AND INTEGRAL CHECK VALVES AND INTEGRAL STOPS. ACCESSORIES: HOSE AND HOSE BRACKET, MOP HANGER, ADJUSTABLE WALL BRACE, PAIL HOOK, STAINLESS STEEL BUMPER GUARDS ON ALL CURBS AND STAINLESS-STEEL WALL GUARDS ON ALL ADJACENT WALLS.	1/2"	1/2"	3"	3"	1-1/2"
P43	(ACTIVITIES, ACCESSIBLE) BASIN: ELKAY MODEL ELUHAD281655, STAINLESS-STEEL, SINGLE BOWL, REAR CENTER DRAIN, ADA COMPLIANT, UNDERMOUNT SINK, 30-1/2" WIDE X 18-1/2" LONG X 5-3/8" DEEP. FAUCET: PEERLESS MODEL P6930LF, SINGLE HOLE, SINGLE LEVER HANDLE, PULL DOWN SPRAY, 1.5 GPM, CERAMIC CARTRIDGE, STAINLESS STEEL FINISH. ACCESSORIES: BASKET STRAINER DRAIN ASSEMBLY. DO NOT INSTALL INCLUDED DECKPLATE. PROVIDE ZURN MODEL Z1180 SOLIDS INTERCEPTOR IN ADJACENT BASE CABINET.	1/2"	1/2"	1-1/2"	2"	1-1/2"
	SHOWERS/TUB/BATHING UNITS: SHOWERS SHALL HAVE A MAXIMUM FLOW RATE OF 2.5 GALLONS PER MINUTE. UNITS SHALL BE CONFIGURED LEFT-HAND AND RIGHT-HAND UNITS AS REQUIRED BY FLOOR PLAN LAYOUT. PROVIDE INLET CHECK STOPS ON ALL SHOWER VALVES THAT ARE CONNECTED TO HAND-HELD SHOWER WANDS WITH ON/OFF CAPABILITY.					
P60	PRIMARY BATH SURROUND: WALLS TO BE TILE. SEE ARCHITECTURAL FINISH SPECIFICATIONS. SHOWER BASE: AQUARIUS MODEL AB3460WH, 60" X 34" CAST ACRYLIC SHOWER PAN WITH 4" THRESHOLD, CENTER DRAIN. SHOWER CONTROL VALVE / TRIM: DELTA "WOODHURST" MODEL T14232 SHOWER TRIM WITH METAL LEVER HANDLE AND SHOWER HEAD, STAINLESS STEEL FINISH, DELTA MODEL R10000 PRESSURE-BALANCED MIXING SHOWER VALVE WITH INTEGRAL STOPS AND CHECK VALVES, GROHE MODEL 26487000, 25-3/4 INCH SHOWER BAR SYSTEM WITH 59 INCH ROTAFLEX HOSE, GROHE HANDHELD SHOWER WAND MODEL 26545 AND GROHE MODEL 28627EN0 HAND HELD SHOWER OUTLET ELBOW. DELTA CONTROL VALVE TO BE STAINLESS STEEL FINISH, ALL GROHE COMPONENTS TO BE BRUSHED NICKEL FINISH. PROVIDE ALL REQUIRED MATCHING MANUFACTURER ACCESSORIES. DRAIN: PROVIDE 2" BRUSHED NICKEL FINISH SHOWER DRAIN.	1/2"	1/2"	2"	2"	1-1/2"
P61	SECONDARY BATH SURROUND: WALLS TO BE TILE. SEE ARCHITECTURAL FINISH SPECIFICATIONS. SHOWER BASE: AQUARIUS MODEL AB3460WH, 60" X 34" CAST ACRYLIC SHOWER PAN WITH 4" THRESHOLD, CENTER DRAIN. SHOWER CONTROL VALVE / TRIM: DELTA "WOODHURST" MODEL T14232 SHOWER TRIM WITH METAL LEVER HANDLE AND SHOWER HEAD, STAINLESS STEEL FINISH, DELTA MODEL R10000 PRESSURE-BALANCED MIXING SHOWER VALVE WITH INTEGRAL STOPS AND CHECK VALVES, DELTA CONTROL VALVE TO BE STAINLESS STEEL FINISH. PROVIDE ALL REQUIRED MATCHING MANUFACTURER ACCESSORIES. DRAIN: PROVIDE 2" BRUSHED NICKEL FINISH SHOWER DRAIN.	1/2"	1/2"	2"	2"	1-1/2"
P62	ACCESSIBLE BATH SURROUND: WALLS TO BE TILE. SEE ARCHITECTURAL FINISH SPECIFICATIONS. SHOWER BASE: AQUARIUS MODEL MP86336-BF, 60" X 37" CAST ACRYLIC SHOWER PAN WITH 7/8" THRESHOLD, CENTER DRAIN. SHOWER CONTROL VALVE / TRIM: DELTA "WOODHURST" MODEL T14232 SHOWER TRIM WITH METAL LEVER HANDLE AND SHOWER HEAD, STAINLESS STEEL FINISH, DELTA MODEL R10000 PRESSURE-BALANCED MIXING SHOWER VALVE WITH INTEGRAL STOPS AND CHECK VALVES, GROHE MODEL 26487000, 25-3/4 INCH SHOWER BAR SYSTEM WITH 59 INCH ROTAFLEX HOSE, GROHE HANDHELD SHOWER WAND MODEL 26545 AND GROHE MODEL 28627EN0 HAND HELD SHOWER OUTLET ELBOW. DELTA CONTROL VALVE TO BE STAINLESS STEEL FINISH, ALL GROHE COMPONENTS TO BE BRUSHED NICKEL FINISH. PROVIDE ALL REQUIRED MATCHING MANUFACTURER ACCESSORIES. DRAIN: PROVIDE 2" BRUSHED NICKEL FINISH SHOWER DRAIN.	1/2"	1/2"	2"	2"	1-1/2"
	MISCELLANEOUS:					
P70	WASHING MACHINE CONNECTION BOX: UNIT SHALL BE RECESSED TYPE, BOX AND FACE PLATE SHALL BE CONSTRUCTED OF MINIMUM 16 GAUGE STEEL WITH EPOXY FINISH, OR HEAVY-DUTY PLASTIC ABS. UNIT SHALL BE FITTED WITH 2-INCH DRAIN CONNECTION, SUPPLY HOSE CONNECTIONS AS REQUIRED, WATER HAMMER ARRESTORS CONFORMING TO ASSE 1010. BOXES LOCATED ON RATED CORRIDOR OR RATED UNIT SEPARATION WALL SHALL BE A FIRE-RATED BOX ASSEMBLY APPROVED FOR FIRE-RATED INSTALLATION. EXACT CONFIGURATION OF WATER SUPPLIES AND DRAIN LOCATION SHALL BE VERIFIED IN FIELD TO SUIT FIELD CONDITIONS. AVOID CONFLICT WITH DRYER EXHAUST, ELECTRICAL COMPONENTS, WALL FRAMING, ETC.	1/2"	1/2"	2"	2"	1-1/2"
P71	ICE MAKER CONNECTION BOX: UNIT SHALL BE RECESSED TYPE, BOX AND FACE PLATE SHALL BE CONSTRUCTED OF MINIMUM 16 GAUGE STEEL WITH EPOXY FINISH, OR HEAVY-DUTY PLASTIC ABS. UNIT SHALL BE FITTED WITH SUPPLY VALVE AND WATER HAMMER ARRESTOR. BOXES LOCATED ON RATED CORRIDOR OR RATED UNIT SEPARATION WALL SHALL BE A FIRE-RATED BOX ASSEMBLY APPROVED FOR FIRE-RATED INSTALLATION. MOUNT BOTTOM OF BOX ABOVE TRIM/BASEBOARD. FIELD VERIFY EXACT LOCATION.	1/2"	-	-	-	-
FPWH	FREEZEPROOF WALL HYDRANT: EQUAL TO WOODFORD MODEL #65, AUTOMATIC DRAINING CHROME-PLATED WALL HYDRANT. MOUNT 24" ABOVE FINISHED GRADE, UNLESS WALL CONSTRUCTION/MATERIALS DICTATE ALTERNATE MOUNTING HEIGHT. FIELD VERIFY EXACT LOCATION.	3/4"	-	-	-	-
TP	PROVIDE BRONZE TRAP PRIMER VALVE WITH AUTOMATIC VACUUM BREAKER COMPLYING WITH ASSE 1018 WITH 1/2" CONNECTIONS MATCHING PIPING SYSTEM. PROVIDE TRAP PRIMERS BY PRECISION PLUMBING PRODUCTS, INC.; JOSAM, MFG. CO.; ZURN INDUSTRIES INC.; SMITH MFG. CO, OR WATTS DRAINAGE.	1/2"	-	-	-	-
HB1	HOSE BIBB: EQUAL TO WOODFORD MODEL NO. 26, ROUGH BRASS FINISH, WITH 3/4" HOSE CONNECTION, VACUUM BREAKER, AND LOOSE KEY HANDLE.	1/2"	-	-	-	-
PH	ROOF POST HYDRANT: EQUAL TO ZURN Z1395, NON-FREEZE, WITH VACUUM BREAKER, 3/4" HOSE CONNECTION. DEPTH OF BURY TO BE BASED UPON 4 FEET SO THAT DRAIN PORT IS LOCATED BELOW ATTIC INSULATION IN CEILING SPACE OF ROOM BELOW. FIELD VERIFY DEPTH OF BURY PRIOR TO ORDERING.	3/4"	-	-	-	-
WHA	WATER HAMMER ARRESTOR: EQUAL TO ZURN Z1700.	3/4"	-	-	-	-

1. FIXTURES SHALL BE PROVIDED WITH ALL ITEMS, ARTICLES, MATERIALS AND INCIDENTALS, AS REQUIRED, INCLUDING ALL LABOR NECESSARY FOR A COMPLETE PLUMBING INSTALLATION.
2. THE PLUMBING CONTRACTOR SHALL CLEAN ALL FIXTURES, POLISH ALL METAL PARTS, CHECK AND ADJUST ALL FITTINGS, FAUCETS AND VALVES. ALL OPERATING INSTRUCTIONS SHALL BE TURNED OVER TO THE GENERAL CONTRACTOR FOR PRESENTATION TO THE OWNER.
3. PROVIDE INDIVIDUAL STOPS ON ALL PLUMBING FIXTURES.
4. ALL LAVATORY, SINK, LAUNDRY TUB, AND SIMILAR FIXTURE TRAPS, INCLUDING THOSE MOUNTED IN CASEWORK, SHALL BE CHROME PLATED, CAST BRASS, MINIMUM 17-GAUGE, ADJUSTABLE TYPE WITH CLEANOUT PLUG.
5. PROVIDE CHROME PLATED ANGLE STOPS WITH WHEEL HANDLES AT FIXTURE SUPPLY THROUGH WALLS, INCLUDING THOSE MOUNTED IN CASEWORK.
6. ALL EXPOSED SUPPLY PIPES, STOPS, FLEXIBLE RISERS, INCLUDING THOSE MOUNTED IN CASEWORK, SHALL HAVE A POLISHED CHROME PLATED FINISH AND BE OF THE SAME MANUFACTURER THROUGHOUT THE JOB.
7. PROVIDE CHROME PLATED ESCUTCHEONS AT ALL FIXTURE SUPPLY AND WASTE PIPE PENETRATIONS THROUGH WALLS, INCLUDING THOSE MOUNTED IN CASEWORK.
8. ALL WATER CLOSET FLUSHING MECHANISMS ON HANDICAP / PUBLIC WATER CLOSETS SHALL BE INSTALLED ON THE "WIDE SIDE" OF EACH WATER CLOSET TO MAINTAIN ADA ACCESSIBILITY.
9. PROVIDE INLET CHECK STOPS ON ALL FIXTURES (I.E. MOP SINKS, SHOWER VALVES, SPA BATHING UNITS AND SIMILAR FIXTURE(S) SUSCEPTIBLE TO BACKFLOW/CROSS CONNECTION SITUATIONS.
10. PROVIDE CONCEALED FIXTURE CARRIERS AND SUPPORTS OF PROPER TYPE AND DESIGN TO SUIT JOB CONDITIONS. PROVIDE CARRIERS BY J.R. SMITH MFG. CO.; ZURN INDUSTRIES, INC.; JOSAM MFG. CO.; WADE DIVISION/TYLER PIPE.
11. PLUMBING FIXTURE COLORS SHALL BE SELECTED BY ARCHITECT/OWNER AT A LATER DATE FROM STANDARD FACTORY COLORS, UNLESS OTHERWISE NOTED TO BE DESIGNER COLOR IN SCHEDULE.
12. PLUMBING FIXTURES AND TRIM SPECIFIED IN THIS SCHEDULE ARE TO ESTABLISH A STANDARD LEVEL OF QUALITY. OTHER MANUFACTURERS MAY BE CONSIDERED EQUAL. SEE LISTINGS BELOW FOR SOME MANUFACTURERS CONSIDERED EQUALS. OTHER MANUFACTURERS NOT LISTED BELOW MAY ALSO BE CONSIDERED WITH WRITTEN APPROVALS OBTAINED FROM ARCHITECT AND/OR ENGINEER PRIOR TO TEN DAYS BEFORE BIDS ARE DUE.
    A. VITREOUS CHINA PLUMBING FIXTURES: GERBER "VIPER", AMERICAN STANDARD
    B. MOP SINKS: PROFLO
    C. STAINLESS STEEL SINKS: ELKAY, DAYTON, JUST, PROFLO
    D. FAUCETS, SHOWER VALVES AND TRIM: AMERICAN STANDARD, KOHLER, SLOAN, ELKAY, MOEN, T&S BRASS, DELTA, CHICAGO, PROFLO, OLYMPIA
    E. SHOWER AND TUBS: COMFORT DESIGNS, BEST BATH, AQUA BATH, AQUARIUS, AMERICAN STANDARD, KOHLER, AQUATIC (LASCO)
13. PROVIDE SHOP DRAWING/SUBMITTAL AND OPERATIONS MANUAL FOR ALL ITEMS LISTED ABOVE IN PLUMBING FIXTURE SCHEDULE.
14. MINIMUM SIZES IN SCHEDULE ABOVE REPRESENT MINIMUM PLUMBING FIXTURE CONNECTIONS ALLOWED AND DOES NOT REFLECT SPECIAL SITUATIONS SUCH AS WET VENTING, WASTE STACK VENTS, COMBINATION WASTE AND VENT SYSTEMS, ETC. REFER TO PLANS AND/OR RISER DIAGRAMS FOR PIPE SIZES AND ADDITIONAL INFORMATION.

PLUMBING DRAINS/CLEANOUT SCHEDULE

PROVIDE SHOP DRAWINGS/SUBMITTAL AND OPERATIONS MANUAL FOR ALL ITEMS LISTED BELOW.

	1. CLEANOUTS: CLEANOUTS SHALL BE LINE SIZE UP TO 4". FOR PIPE SIZES LARGER THAN 4" PROVIDE A 4" CLEANOUT, WHERE ALLOWED BY CODE AND AUTHORITY HAVING JURISDICTION. ALL EXTERIOR AND INLINE CLEANOUTS SHALL BE TWO-WAY. CLEANOUTS SHALL BE INSTALLED WITH TOP OF DRAIN FLUSH WITH FINISHED FLOOR OR FINISHED GRADE, UNLESS NOTED OTHERWISE, AND IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
CO	EXPOSED HORIZONTAL OR VERTICAL CLEANOUT IN PIPING EXPOSED OR CONCEALED ABOVE ACCESSIBLE CEILINGS.
FCO	(REFER TO ARCHITECTURAL DRAWINGS FOR FLOOR FINISH INFORMATION. PROVIDE CLEANOUTS AS DESCRIBED BELOW.) 1. WHERE SHEET VINYL FLOORING SIMILAR TO ALTRO, PROTECTALL AND ETC. IS INSTALLED, PROVIDE WATTS MODEL CO-200-RFC7 FLOOR CLEANOUT WITH SURFACE MEMBRANE CLAMP. 2. FOR AREAS WHERE CARPET WILL BE INSTALLED PROVIDE ROUND ADJUSTABLE CLEANOUT WITH CARPET MARKER. 3. BACK OF HOUSE AREAS (I.E. KITCHEN, UTILITY ROOMS, LAUNDRY ROOMS AND SIMILAR SPACES) WHERE TILE FLOORS ARE TO BE INSTALLED, PROVIDE SQUARE ADJUSTABLE CLEANOUT WITH STAINLESS STEEL COVER. 4. IN PUBLIC AREAS (I.E. DINING ROOMS, CORRIDORS, OFFICES, CONFERENCE ROOMS AND SIMILAR SPACES) WHERE TILE FLOORS ARE TO BE INSTALLED, PROVIDE SQUARE ADJUSTABLE CLEANOUT WITH RECESS TILE COVER. 5. IN AREAS SUBJECT TO TRAFFIC (I.E. PARKING GARAGES, PARKING SPACES AND SIMILAR SPACES) PROVIDE HEAVY DUTY/TRAFFIC RATED CLEANOUT COVER.
GCO	CLEANOUT TO GRADE WITH HEAVY DUTY ACCESS COVER CAST IN A 12" X 12" X 4" THICK CONCRETE PAD. (PAD MAY BE ELIMINATED IN POURED CONCRETE SIDEWALKS, DRIVEWAYS, PATIOS, ETC.)
WCO	PROVIDE CLEANOUT IN VERTICAL PIPE WITH STAINLESS STEEL ACCESS COVER FOR NON-PUBLIC/BACK OF HOUSE AREAS, OR BEHIND ACCESS PANEL WHERE INDICATED ON DRAWINGS. (WHERE PIPES ARE CONCEALED IN WALLS OR CHASES.)
	ROOF/OVERFLOW DRAINS: ACCEPTABLE MANUFACTURERS: ZURN, WATTS, JOSAM, JAY R. SMITH.
RD	ROOF DRAIN - EQUAL TO ZURN MODEL 100. DRAIN SHALL HAVE DURA-COATED CAST IRON BODY WITH POLY-DOME, COMBINATION MEMBRANE FLASHING CLAMP/GRAVEL GUARDS, SUMP RECEIVER, UNDERDECK CLAMPING DEVICE, EXTENSION COLLAR TO SUIT THICKNESS OF INSULATION.
OD	OVERFLOW DRAIN - EQUAL TO ZURN MODEL Z100-W2 DRAIN SHALL HAVE DURA-COATED CAST IRON BODY WITH POLY-DOME, INTERNAL OVERFLOW WATER DAM, COMBINATION MEMBRANE FLASHING CLAMP/GRAVEL GUARDS, SUMP RECEIVER, UNDERDECK CLAMPING DEVICE, EXTENSION COLLAR TO SUIT THICKNESS OF INSULATION.
ODS	OVERFLOW DISCHARGE SPOUT - EQUAL TO FROET INDUSTRIES MODEL LPS, OVERFLOW DISCHARGE SPOUT, STAINLESS STEEL FRAME WITH STAINLESS STEEL HINGED STRAINER.
	FLOOR DRAINS AND FLOOR SINKS: ACCEPTABLE MANUFACTURERS: ZURN, WATTS, JOSAM, JAY R. SMITH.
	NOTES: 2. PROVIDE P-TRAPS, SEAL DEPTH AS REQUIRED BY PLUMBING CODE, WITH ALL FLOOR DRAINS AND FLOOR SINKS, UNLESS NOTED OTHERWISE. 3. DRAINS SHALL BE INSTALLED WITH TOP OF DRAIN FLUSH WITH FINISHED FLOOR, UNLESS NOTED OTHERWISE, AND IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS. 4. ALL DRAINS INSTALLED IN SLABS OR PATIOS NOT IN SLABS ON GRADE TO BE PROVIDED WITH MEMBRANE/LEAD FLASHINGS 2'-0" SQUARE. VERIFY EXACT SIZE ON SITE.
FD1	(MECHANICAL/PLUMBING ROOMS, SIMILAR SPACES) - FLOOR DRAIN - EQUAL TO ZURN MODEL Z550-Y. DURA-COATED CAST IRON BODY WITH BOTTOM OUTLET, 5" DIAMETER STRAINER, AND SEDIMENT BUCKET. PROVIDE WITH TRAP PRIMER CONNECTION WHERE INDICATED ON DRAWINGS.
FS1	(TILE FLOORS, CONCRETE FLOORS) - FLOOR SINK - EQUAL TO ZURN MODEL ZN1902. 3" OR 4" BOTTOM OUTLET, CAST-IRON BODY, ANTI-SPLASH INTERIOR AND SEDIMENT BUCKET, NICKEL BRONZE 1/2 GRATE, 12" SQUARE BY 10" DEEP.
PDD	(PARKING GARAGE) — FLOOR DRAIN — EQUAL TO JAY R SMITH MODEL 2624. 3" BOTTOM OUTLET, CAST-IRON BODY, SEDIMENT BUCKET, HEEL PROOF NICKEL BRONZE GRATE, 14" DIAMETER GRATE.

EQUIPMENT SCHEDULE

PROVIDE SHOP DRAWINGS/SUBMITTAL AND OPERATIONS MANUAL FOR ALL ITEMS LISTED BELOW. PROVIDE EQUIPMENT TAGS PER SPECIFICATIONS FOR ALL ITEMS LISTED IN THIS SCHEDULE.

WH1, WH2, WH3, WH4	WATER HEATER - EQUAL TO A.O. SMITH MODEL NO. BTH-150(A) NATURAL GAS FIRED ASME WATER HEATER WITH GLASS TANK LINING AND CONDENSATE NEUTRILIZING KIT. HEATER TO HAVE 100 GALLON NOMINAL STORAGE CAPACITY WITH RECOVERY CAPACITY OF 173 GPH AT 100°F TEMPERATURE RISE. 150 CFH INPUT RATING; 120V ELECTRICAL CONNECTION. PROVIDE WITH OPTIONAL CONCENTRIC VENT KIT MODEL BTH-100 — 250, PART NUMBER 100111100.
ET1, ET2	THERMAL EXPANSION COMPENSATOR - EQUAL TO AMTROL ST-30V-DO, ASME RATED, 16.5 GALLON CAPACITY.
TMV1	THERMOSTATIC MIXING VALVE - EQUAL TO LEONARD "NUCLEUS" MODEL NO. NV-150-LF-IF-RTS, DIGITAL MIXING VALVE WITH 1-1/4" INLET AND 1-1/2" OUTLET CONNECTIONS, INLET, OUTLET AND RETURN TEMPERATURE SENSORS, 200 PSI MAXIMUM OPERATING PRESSURE. VALVE TO HAVE MAXIMUM PRESSURE DROP OF 5 PSI AT 50 GPM FLOW RATE. PROVIDE WALL MOUNTING BRACKET AND ALL REQUIRED ACCESSORIES FOR A COMPLETE OPERATIONAL SYSTEM. 120V ELECTRICAL CONNECTION.
SP1, SP2	ELEVATOR SUMP PUMP - EQUAL TO STANCOR SE-50 ELEVATOR SUMP PUMP, 1/2 HP, 120V, 1 PHASE. PROVIDE WITH ON/OFF FLOAT, HIGH WATER LEVEL ALARM FLOAT, OIL PROBE AND CONTROL PANEL FOR HYDRAULIC ELEVATOR. PROVIDE ALL REQUIRED ACCESSORIES AND COMPONENTS PER MANUFACTURERS RECOMMENDATIONS.
BFP1, BFP2	BACKFLOW PREVENTER - EQUAL TO ZURN WILKINS MODEL NO. 975XL3 WITH 2" CONNECTIONS. PROVIDE WITH AIR GAP ASSEMBLY, QUARTER TURN BALL VALVES, TEST VALVES AND WYE STRAINER ON INLET SIDE OF VALVE.
CP1, CP2, CP3, CP4	HOT WATER RECIRCULATION PUMP - EQUAL TO BELL AND GOSSETT "ECOCIRC" PUMP MODEL NO. 55-45, VARIABLE SPEED WITH CAPACITY OF 15 GPM @ 25 FT/HEAD, 1/2 HP, 208V, 1 PHASE, WITH STAINLESS STEEL CONSTRUCTION.
PRV1	WATER PRESSURE REDUCING VALVE - EQUAL TO ZURN WILKINS MODEL NO. 500XL3-F LEAD FREE WITH FLANGED CONNECTIONS, TAPPED AND PLUGGED WITH GAUGE. SET OUTLET PRESSURE TO 65 PSI.
PRV2	WATER PRESSURE REDUCING VALVE - EQUAL TO ZURN WILKINS MODEL NO. 500XL3-DUC-G, LEAD FREE WITH DOUBLE UNION CONNECTIONS, TAPPED AND PLUGGED WITH GAUGE. SET OUTLET PRESSURE TO 75 PSI.

PIPING INSULATION SCHEDULE

PIPING SYSTEM TYPE (OPERATING TEMPERATURE RANGE)	PIPING SIZE RANGE	INSULATION THICKNESS	INSULATION JACKET	VAPOR BARRIER	REMARKS
DOMESTIC COLD WATER PIPING	ALL PIPE SIZES	1"	ASJ	YES	1, 2, 3
DOMESTIC HOT WATER SUPPLY AND RETURN PIPING	ALL PIPE SIZES	1"	ASJ	NO	1, 2, 3
ROOF AND OVERFLOW DRAIN STORM PIPING	ALL PIPE SIZES	1"	ASJ	YES	1, 2, 3, 4

REMARKS
1. REFER TO PLUMBING INSULATION SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. PIPING MATERIAL TO BE GLASS FIBER, PREFORMED PIPE INSULATION. INSTALL PER MANUFACTURERS RECOMMENDATIONS.
3. ASJ = ALL SERVICE JACKET
4. ALL ROOF AND OVERFLOW DRAIN BODIES AND ALL STORM PIPING.

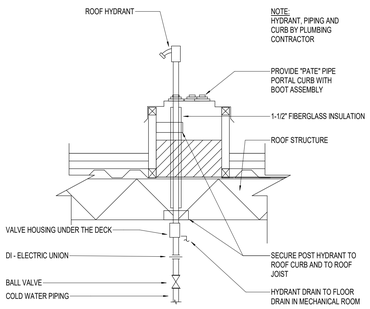
GENERAL PLUMBING NOTES

1. ALL PLUMBING WORK SHALL BE INSTALLED IN COMPLIANCE WITH ALL STATE AND LOCAL CODES, AMENDMENTS AND ORDINANCES.
2. THE PLUMBING CONTRACTOR SHALL DETERMINE NECESSARY INVERT ELEVATIONS FOR PROPER DRAINAGE AND CONNECTION INTO SEWERS. ALL INVERT ELEVATIONS SHALL BE SET PRIOR TO INSTALLATION.
3. ALL PIPING PASSING THROUGH FIRE RATED OR FIRE AND SMOKE RATED ASSEMBLIES SHALL BE SLEEVED AND FIRESTOPPED. FIRESTOPPING SHALL COMPLY WITH U.L. LISTING AND REQUIREMENTS FOR ASSEMBLY TYPE BEING PENETRATED.
4. PLUMBING CONTRACTOR SHALL NOT CORE DRILL OR DISTURB ANY STRUCTURAL MEMBERS WITHOUT WRITTEN AUTHORIZATION BY THE ARCHITECT AND/OR STRUCTURAL ENGINEER.
5. PLUMBING CONTRACTOR SHALL COORDINATE PIPING LOCATIONS AND ROUTING WITH OTHER PIPING DUCTWORK AND ELECTRICAL CONDUIT INSTALLATIONS. PLUMBING CONTRACTOR SHALL REVIEW ARCHITECTURAL DRAWINGS TO ESTABLISH WHERE FURR-DOWNS AND SOFFITS OCCUR AND DIMENSIONS OF SAME SO THAT DISTANCES AND PIPING ROUTING CAN BE PROPERLY COORDINATED. ALL PIPING SHALL BE ROUTED IN A CONCEALED MANNER.
6. PLUMBING CONTRACTOR SHALL AVOID LOCATING HW/CW PIPING IN LOCATIONS WHERE POSSIBILITY OF FREEZING OF SAME EXISTS. CONTRACTOR SHALL ADVISE ENGINEER WHERE THIS CONDITION MAY OCCUR PRIOR TO ROUGH-IN.
7. ALL ADA ACCESSIBLE LAVATORIES AND SINKS WITH EXPOSED WATER AND DRAIN PIPES SHALL BE INSULATED TO PROTECT AGAINST CONTACT PER ADA REQUIREMENTS. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES.
8. COORDINATE ROUTING OF ALL PIPING WITH THE ELECTRICAL CONTRACTOR SO AS NOT TO ROUTE ANY PLUMBING LINES OVER ELECTRICAL PANELS, SWITCHGEAR, ETC.
9. ACCESS DOORS TO VALVES, CLEANOUTS AND ETC. TO BE EQUAL TO "ACUDOR" DW OR FW SERIES. ACCESS DOORS FOR DRYWALL INSERTS. PROVIDE FIRE RATED ACCESS DOORS WHERE REQUIRED. COORDINATE WITH GENERAL CONTRACTOR AND VERIFY EXACT LOCATIONS AND SIZES ON SITE. PAINT TO MATCH CEILING OR WALL.
10. PLASTIC PIPING SHALL NOT BE INSTALLED IN ANY SPACE THAT IS A RETURN AIR PLENUM. COORDINATE WITH MECHANICAL CONTRACTOR FOR PLENUM LOCATIONS PRIOR TO INSTALLATION OF ANY PIPING. ONLY PLASTIC PIPING THAT IS APPROVED FOR PLENUM SPACES AND IS APPROVED BY THE LOCAL AUTHORITY HAVING JURISDICTION MAY BE INSTALLED IN RETURN AIR PLENUMS.
11. PIPING AND EQUIPMENT HANGERS SHALL BE SPACED IN A SYSTEMATIC RANDOM PATTERN AS REQUIRED TO ELIMINATE OVERLOADING INDIVIDUAL STRUCTURAL MEMBERS. THE ESTIMATED WEIGHT ASSIGNED TO PIPE AND EQUIPMENT HANGERS SHALL BE DETERMINED BY THE PLUMBING CONTRACTOR AND SUBMITTED TO THE GENERAL CONTRACTOR FOR REVIEW, COORDINATION AND APPROVAL PRIOR TO INSTALLATION. THIS REQUIREMENT APPLIES TO ALL PLUMBING PIPING.
12. INSTALL PLUMBING VENTS THROUGH ROOF A MINIMUM OF 24" FROM EDGE OF ROOF AND/OR PARAPET WALLS. LOCATE ALL VENTS THROUGH ROOF A MINIMUM OF 10'-0" FROM ALL OUTSIDE AIR INTAKES.
13. ALL UNDERGROUND PLUMBING PIPING SUBJECT TO FREEZING SHALL BE INSTALLED BELOW LOCAL AREA FROST LINE MINIMUM. VERIFY SITE FROST DEPTH.
14. COORDINATE LOCATION OF ALL BELOW GRADE PIPING WITH STRUCTURAL FOUNDATIONS, FOOTINGS, GRADE BEAMS, ETC. TO AVOID CONFLICT.
15. REFER TO SPECIFICATION SECTION 231123 FACILITY NATURAL-GAS PIPING FOR GAS PIPING AND INSTALLATION INFORMATION.
16. WATER HAMMER ARRESTORS SHALL BE INSTALLED WHERE QUICK CLOSING VALVES ARE UTILIZED AND/OR INDICATED ON PLANS, INCLUDING BUT NOT LIMITED TO, WASHERS, DISHWASHERS, ICE MAKER CONNECTION BOXES, FLUSH VALVES, ETC. VERIFY EXACT LOCATION TO BE INSTALLED ON SITE.

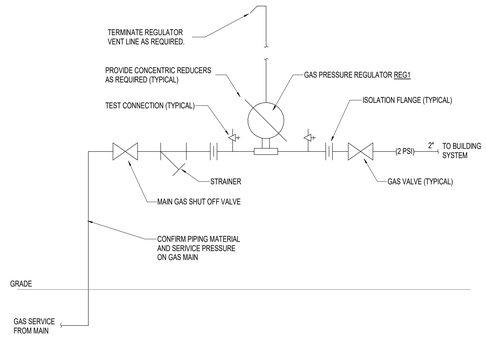
PLUMBING PIPING MATERIALS

BELOW IS A LIST OF PLUMBING PIPING MATERIALS TO BE UTILIZED. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING PIPING MATERIAL STANDARDS COMPLIANCE, COMPONENTS AND INSTALLATION OF PIPING MATERIALS.

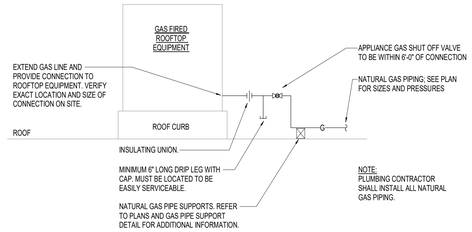
WHERE AVAILABLE, PIPE AND FITTING



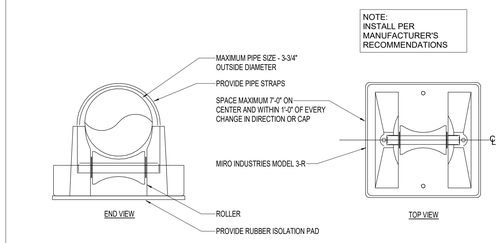
10 ROOF HYDRANT DETAIL
P0.1 N.T.S.



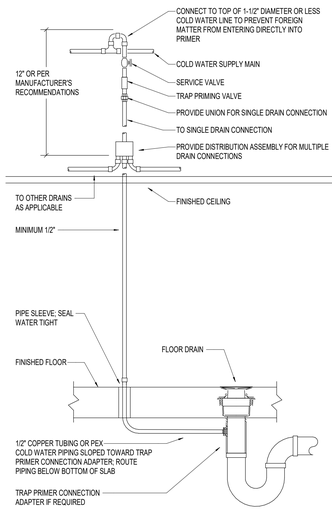
9 NATURAL GAS SERVICE ENTRANCE DETAIL
P0.1 N.T.S.



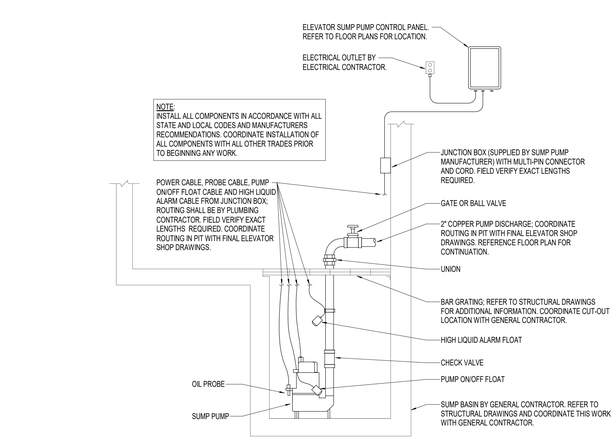
6 GAS ROOFTOP UNIT CONNECTION DETAIL
P0.1 N.T.S.



3 GAS PIPE SUPPORT DETAIL
P0.1 N.T.S.



2 DRAIN WITH TRAP PRIMER DETAIL
P0.1 N.T.S.



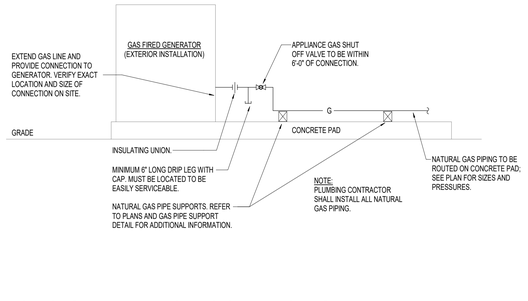
NOTES:
1. VERIFY MAXIMUM GAS INLET PRESSURES ALLOWED TO EQUIPMENT PROVIDED. ADJUST REGULATOR OUTLET PRESSURES AS REQUIRED. REGULATOR OUTLET GAS PRESSURE MUST BE SET WITH GAS FLOWING TO THE DOWNSTREAM EQUIPMENT.
2. PROVIDE EQUIPMENT TAGS FOR EACH REGULATOR LISTED IN ACCORDANCE WITH SPECIFICATIONS.
3. CONTRACTOR HAS THE OPTION TO USE A "VENT LIMITING DEVICE" IN LIEU OF ROUTING VENT PIPING IF APPROVED BY THE AHJ, GAS COMPANY AND THE REGULATOR MANUFACTURER. VENT LIMITING DEVICES CAN ONLY BE USED ON SYSTEMS WHERE THE INCOMING GAS PRESSURE IS 2 PSI OR LESS. VENT LIMITING DEVICES MUST BE INSTALLED IN HORIZONTAL POSITION (RIGHT SIDE UP) AND MUST NEVER BE INSTALLED OUTDOORS. PROVIDE ALL REQUIRED FITTINGS AND ACCESSORIES.
4. THIS DETAIL IS INTENDED TO SHOW THE ACCESSORIES REQUIRED, THE GENERAL REQUIREMENTS AND LOCATIONS OF ACCESSORIES FOR INSTALLTION OF GAS PRESSURE REGULATORS. THE ACTUAL ORIENTATIONS, INSTALLATIONS AND CONFIGURATIONS MAY DIFFER. REFER TO PLANS AND OTHER DETAILS FOR ADDITIONAL INFORMATION.
5. IF DIRECT ACTING OR EXTERNAL SENSING REGULATORS ARE USED THEY MUST BE INSTALLED IN STRICT ACCORDANCE WITH ALL THE MANUFACTURERS REQUIREMENTS AND RECOMMENDATIONS.
6. ONLY UNIONS ARE ALLOWED WITHIN THE MINIMUM DISTANCES NOTED ON THE DETAIL. NO FITTINGS OR OTHER DEVICES ARE ALLOWED TO BE WITHIN THESE MINIMUM DISTANCES.
7. REGULATOR NO. 6 IS SERVING THE NATURAL GAS GENERATOR. THE MINIMUM CFH CAPACITY LISTED IS THE GENERATOR GAS INPUT ONLY. THE REGULATOR CAPACITY TO BE INCREASED BY A MINIMUM 1.5X THE GENERATOR INPUT RATING OR AS RECOMMENDED BY THE MANUFACTURERS REQUIREMENTS. CONFIRM WITH GENERATOR MANUFACTURER PROVIDED.

NATURAL GAS REGULATOR SCHEDULE

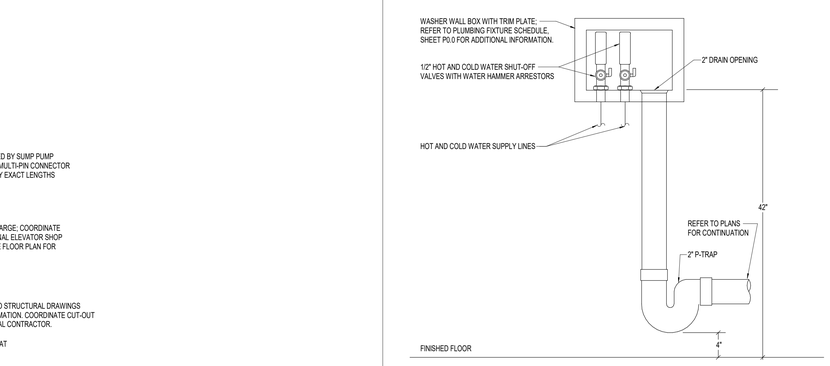
TAG	INLET PRESSURE	OUTLET PRESSURE	MINIMUM CFH CAPACITY	SHEET LOCATION
REG-1	CONFIRM WITH SITE GAS MAIN PRESSURE	2 PSI	1334	P2.1
REG-2	2 PSI	10" WC	150	P4.3
REG-3	2 PSI	10" WC	150	P4.3
REG-4	2 PSI	10" WC	150	P4.3
REG-5	2 PSI	10" WC	150	P4.3
REG-6	2 PSI	10" WC	734	P2.1

REFER TO NOTE #7 FOR GENERATOR REGULATOR SIZING

8 GAS PRESSURE REGULATOR PIPING DIAGRAM AND SCHEDULE
P0.1 N.T.S.

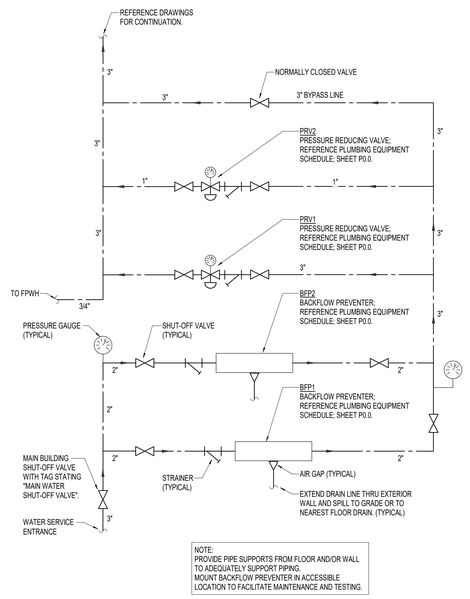


5 GAS GENERATOR CONNECTION DETAIL
P0.1 N.T.S.



7 ELEVATOR SUMP PUMP DETAIL
P0.1 N.T.S.

4 WASHER WALL BOX DETAIL
P0.1 N.T.S.



1 DUPLEX BACKFLOW PREVENTER AND PRV VALVES DETAIL
P0.1 N.T.S.

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03/13/2026
PROFESSIONAL ENGINEER
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BID SET

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NO.	REVISION DESCRIPTION	DATE

DRAWING TITLE
DETAILS - PLUMBING

DATE: 03/13/2026
COMM. NO. 25116.00
DRAWING P0.1

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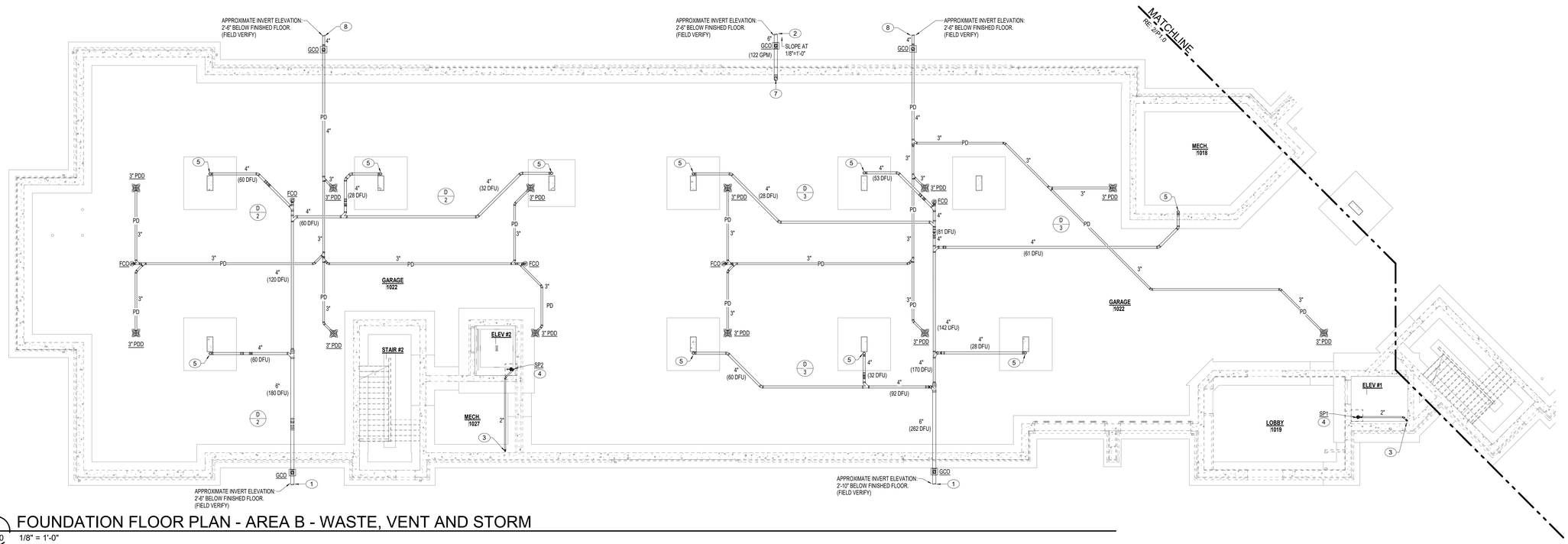
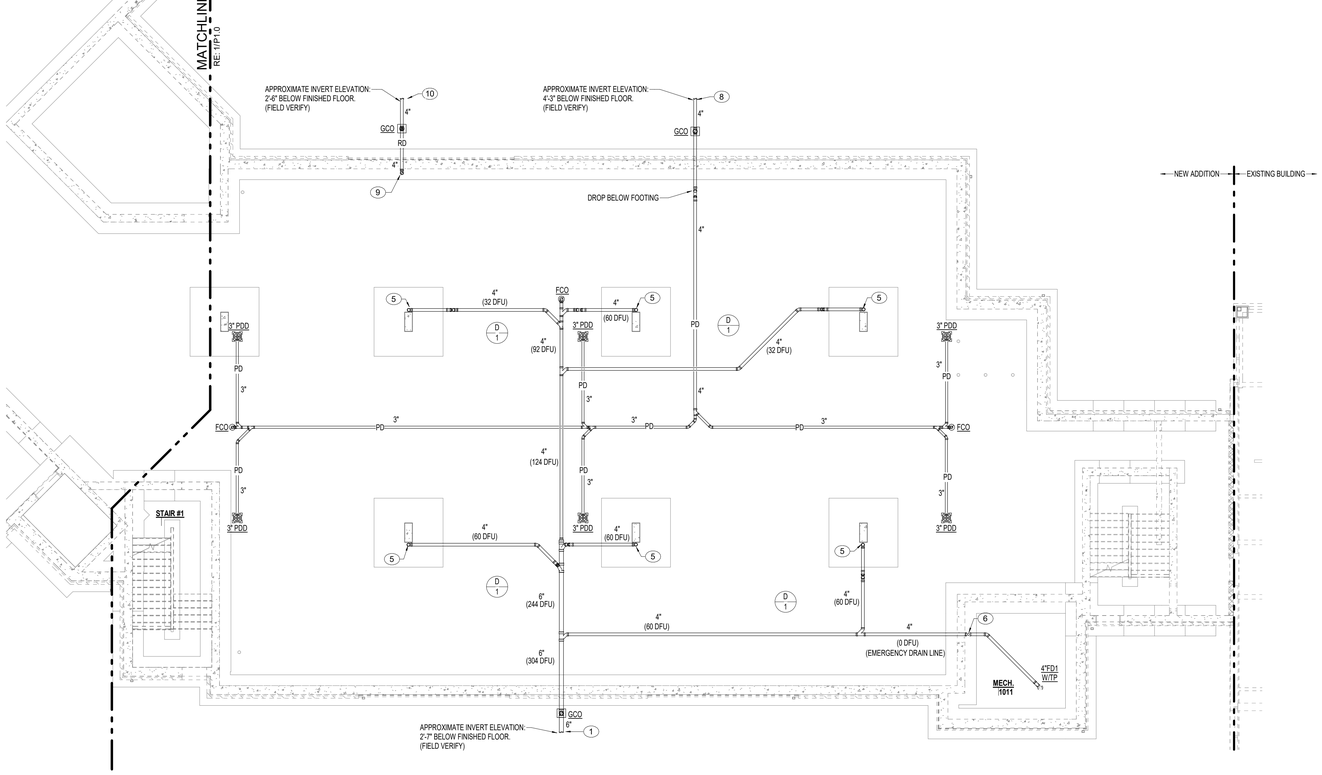


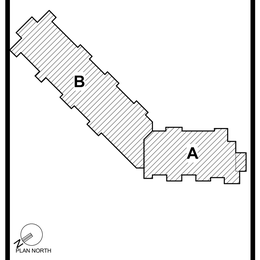
1 P1.0 FOUNDATION FLOOR PLAN - AREA B - WASTE, VENT AND STORM

1/8" = 1'-0"



2 P1.0 FOUNDATION FLOOR PLAN - AREA A - WASTE, VENT AND STORM

1/8" = 1'-0"



GENERAL NOTES

1. ALL PIPING INDICATED ON THIS SHEET IS TO BE ROUTED BELOW SLAB, UNLESS NOTED OTHERWISE. COORDINATE ROUTING OF PIPING BELOW SLAB WITH STRUCTURAL FOOTINGS TO AVOID CONFLICT WHERE POSSIBLE.

PLAN NOTES

1. 6" WASTE LINE OUT TO SITE 5'-0". REFER TO CIVIL ENGINEERS DRAWINGS FOR CONTINUATION. PLUMBING CONTRACTOR SHALL MAKE FINAL CONNECTION.
2. 6" ROOF DRAIN STORM LINE OUT TO SITE 5'-0". REFER TO CIVIL ENGINEERS DRAWINGS FOR CONTINUATION. PLUMBING CONTRACTOR SHALL MAKE FINAL CONNECTION.
3. 2" SUMP PUMP DISCHARGE LINE UP FROM BELOW SLAB.
4. REFER TO ELEVATOR SUMP PUMP DETAIL, SHEET P0.1 FOR ADDITIONAL INFORMATION.
5. 4" WASTE LINE UP.
6. 3" VENT LINE UP.
7. 4" ROOF DRAIN STORM LINE DOWN FROM ABOVE; TRANSITION TO 6" STORM LINE ABOVE FLOOR AND CONTINUE TO BELOW FLOOR.
8. 4" PARKING GARAGE DRAIN LINE OUT TO SITE 5'-0". REFER TO CIVIL ENGINEERS DRAWINGS FOR CONTINUATION. PLUMBING CONTRACTOR SHALL MAKE FINAL CONNECTION.
9. 3" ROOF DRAIN STORM LINE DOWN FROM ABOVE; TRANSITION TO 4" STORM LINE ABOVE FLOOR AND CONTINUE TO BELOW FLOOR.
10. 4" ROOF DRAIN STORM LINE OUT TO SITE 5'-0". REFER TO CIVIL ENGINEERS DRAWINGS FOR CONTINUATION. PLUMBING CONTRACTOR SHALL MAKE FINAL CONNECTION

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ENGINEER : AJM	APPROVED : AJM

NO.	REVISION DESCRIPTION	DATE

DRAWING TITLE

FOUNDATION PLAN - WASTE, VENT AND STORM

PLAN NORTH

DATE: 03/13/2026

COMM. NO. 25116.00

DRAWING P1.0

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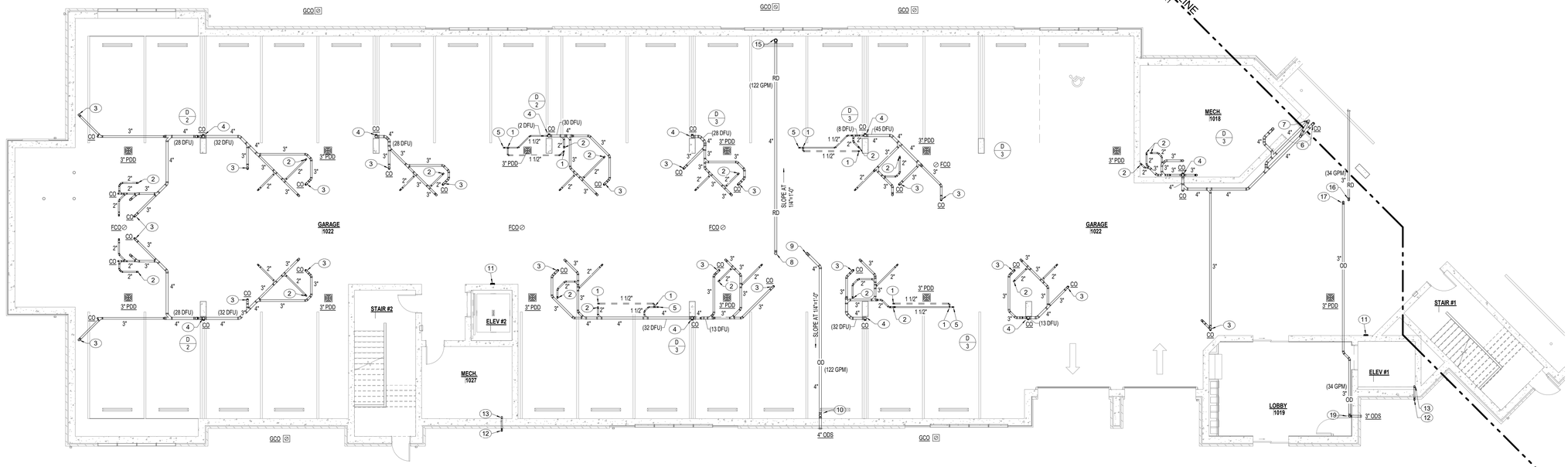
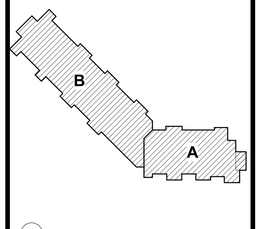


2 P1.1 GARAGE FLOOR PLAN - AREA B - WASTE, VENT AND STORM

1/8" = 1'-0"

1 P1.1 GARAGE FLOOR PLAN - AREA A - WASTE, VENT AND STORM

1/8" = 1'-0"



PLAN NOTES

1. 1-1/2" VENT LINE UP.
2. 2" WASTE LINE UP.
3. 3" WASTE LINE UP.
4. 4" WASTE LINE DOWN ALONG COLUMN/WALL. PROVIDE CLEANOUT IN AN ACCESSIBLE LOCATION NEAR BASE OF WASTE STACK.
5. 1-1/2" WASTE LINE UP.
6. 4" WASTE LINE UP.
7. 3" VENT LINE UP.
8. 4" ROOF DRAIN STORM LINE UP.
9. 4" OVERFLOW DRAIN STORM LINE UP.
10. OVERFLOW DRAIN STORM LINE DOWN ALONG WALL TO OVERFLOW DISCHARGE SPOUT.
11. ELEVATOR SUMP PUMP CONTROL PANEL MOUNTED ON WALL 5'-0" ABOVE FINISHED FLOOR TO CENTERLINE. REFER TO EQUIPMENT SCHEDULE SHEET P0.0 AND ELEVATOR SUMP PUMP DETAIL SHEET P0.1 FOR ADDITIONAL INFORMATION.
12. EXTEND 2" SUMP PUMP DISCHARGE THROUGH EXTERIOR WALL AND SPILL TO GRADE. SEAL PENETRATION WATER TIGHT.
13. 2" ELEVATOR SUMP PUMP DISCHARGE LINE DOWN.
14. 3" VENT LINE DOWN.
15. 4" ROOF DRAIN STORM LINE DOWN ON WALL; TRANSITION TO 6" STORM LINE ABOVE FLOOR AND CONTINUE TO BELOW FLOOR.
16. 3" ROOF DRAIN STORM LINE UP.
17. 3" OVERFLOW DRAIN STORM LINE UP.
18. 3" ROOF DRAIN STORM LINE DOWN ON WALL; TRANSITION TO 4" STORM LINE ABOVE FLOOR AND CONTINUE TO BELOW FLOOR.
19. OVERFLOW DRAIN STORM LINE DOWN ON WALL TO OVERFLOW DISCHARGE SPOUT. CONCEAL PIPING IN MECHANICAL CLOSET. COORDINATE PIPE ROUTING WITH MECHANICAL EQUIPMENT / CONTRACTOR.

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PROJECT TITLE

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ENGINEER : AJM		APPROVED : AJM	

NO.	REVISION DESCRIPTION	DATE

DRAWING TITLE

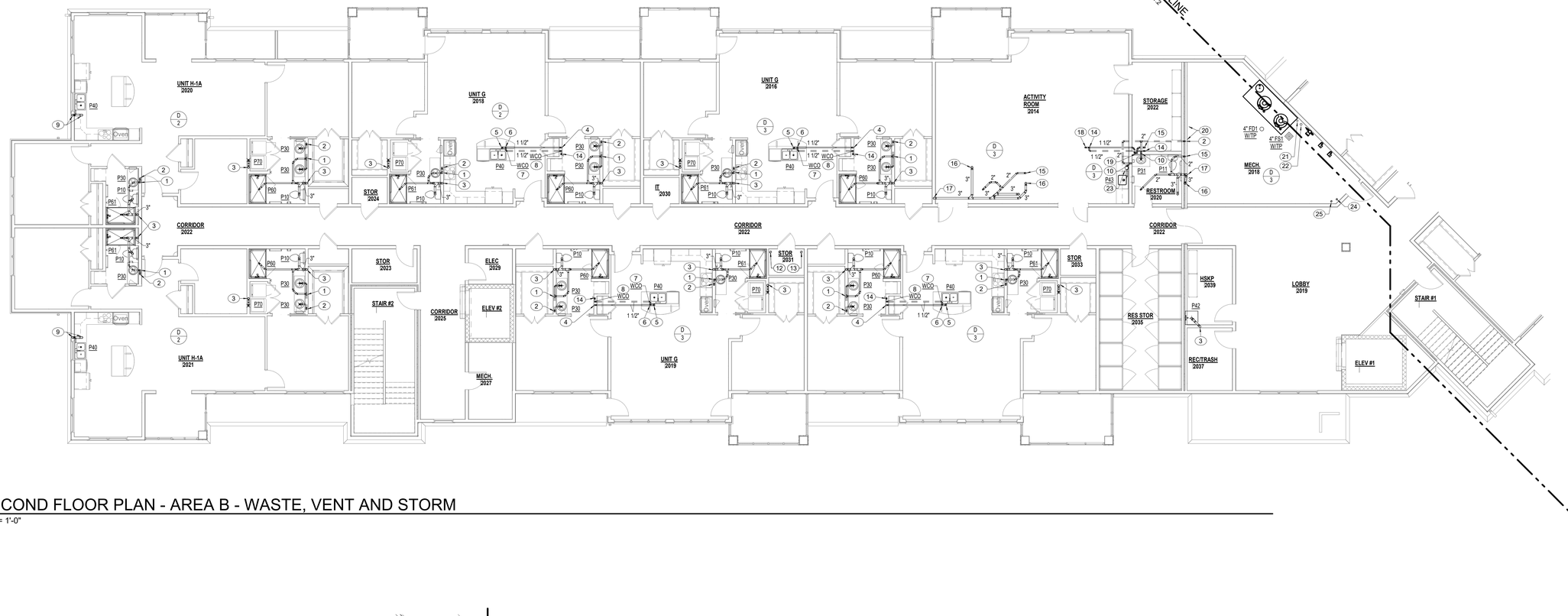
GARAGE FLOOR PLAN - WASTE, VENT AND STORM

PLAN NORTH

DATE: 03/13/2026

COMM. NO. 25116.00

DRAWING P1.1

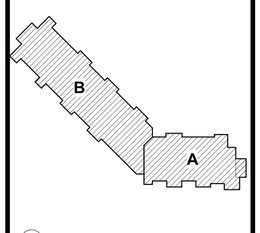


2 P1.2 SECOND FLOOR PLAN - AREA B - WASTE, VENT AND STORM

1/8" = 1'-0"

1 P1.2 SECOND FLOOR PLAN - AREA A - WASTE, VENT AND STORM

1/8" = 1'-0"



PLAN NOTES

1. 2" WASTE LINE UP TO FIXTURE ON FLOOR ABOVE; 2" VENT LINE DOWN TO FIXTURE ON THIS FLOOR. CONTINUE 2" WASTE LINE DOWN TO FLOOR BELOW.
2. 2" VENT LINE UP.
3. 3" WASTE LINE UP AND DOWN.
4. 2" WASTE LINE UP AND DOWN.
5. 1-1/2" WASTE AND VENT LINE UP TO FIXTURE ON FLOOR ABOVE.
6. 1-1/2" WASTE AND VENT LINE DOWN FROM FIXTURE ON THIS FLOOR TO FLOOR BELOW.
7. PROVIDE CLEANOUT IN AN ACCESSIBLE LOCATION BELOW SINK.
8. PROVIDE CLEANOUT IN AN ACCESSIBLE LOCATION IN CLOSET.
9. 3" WASTE LINE UP AND DOWN. OFFSET WASTE LINE IN BASE CABINET TO AVOID CONFLICT WITH CONCRETE WALL BELOW. CONTRACTOR HAS OPTION TO COORDINATE WITH GENERAL CONTRACTOR TO PROVIDE NOTCH IN CONCRETE WALL BELOW TO ALLOW FOR ROUTING OF PIPING.
10. 2" VENT LINE DOWN; CONTINUE 2" WASTE LINE DOWN TO BELOW FLOOR.
11. 4" WASTE LINE DOWN.
12. 4" ROOF DRAIN STORM LINE UP AND DOWN.
13. 4" OVERFLOW DRAIN STORM LINE UP AND DOWN.
14. 1-1/2" VENT LINE UP.
15. 2" WASTE LINE UP.
16. 3" WASTE LINE UP.
17. 3" WASTE LINE DOWN.
18. 1-1/2" WASTE LINE UP.
19. 2" WASTE LINE DOWN.
20. ROUTE PIPING TO AVOID CONFLICT WITH ELECTRICAL EQUIPMENT. DO NOT ROUTE ANY PIPING DIRECTLY OVER TOP OF EQUIPMENT. COORDINATE WITH ELECTRICAL CONTRACTOR.
21. 3" VENT LINE UP AND DOWN.
22. 4" WASTE LINE UP AND DOWN.
23. PROVIDE SOLIDS INTERCEPTOR EQUAL TO ZURN MODEL Z1180 IN ADJACENT BASE CABINET. PIPE SINK WASTE TO SOLIDS INTERCEPTOR CONCEALED.
24. 3" ROOF DRAIN STORM LINE UP AND DOWN.
25. 3" OVERFLOW DRAIN STORM LINE UP AND DOWN.

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NO.	REVISION DESCRIPTION	DATE

DRAWING TITLE

SECOND FLOOR PLAN - WASTE, VENT AND STORM

DATE: 03/13/2026	DRAWING P1.2
COMM. NO. 25116.00	

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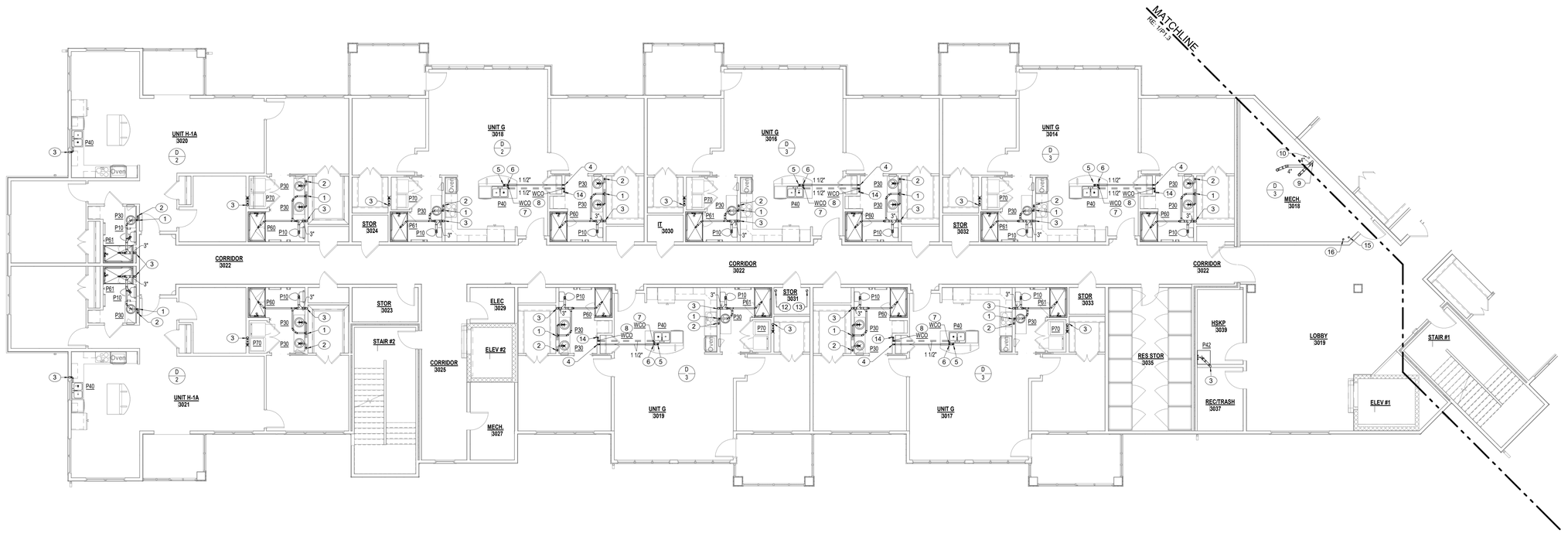
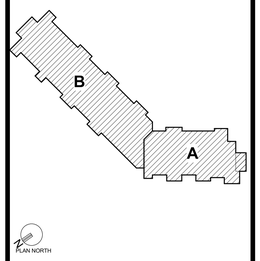


2 P1.3 THIRD FLOOR PLAN - AREA B - WASTE, VENT AND STORM

1/8" = 1'-0"

1 P1.3 THIRD FLOOR PLAN - AREA A - WASTE, VENT AND STORM

1/8" = 1'-0"



PLAN NOTES

1. 2" WASTE LINE UP TO FIXTURE ON FLOOR ABOVE; 2" VENT LINE DOWN TO FIXTURE ON THIS FLOOR. CONTINUE 2" WASTE LINE DOWN TO FLOOR BELOW.
2. 2" VENT LINE UP AND DOWN.
3. 3" WASTE LINE UP AND DOWN.
4. 2" WASTE LINE UP AND DOWN.
5. 1-1/2" WASTE AND VENT LINE UP TO FIXTURE ON FLOOR ABOVE.
6. 1-1/2" WASTE AND VENT LINE DOWN FROM FIXTURE ON THIS FLOOR TO FLOOR BELOW.
7. PROVIDE CLEANOUT IN AN ACCESSIBLE LOCATION BELOW SINK.
8. PROVIDE CLEANOUT IN AN ACCESSIBLE LOCATION IN CLOSET.
9. 3" VENT LINE UP; 4" WASTE LINE DOWN.
10. 3" VENT LINE UP AND DOWN.
11. 4" WASTE LINE UP AND DOWN.
12. 4" ROOF DRAIN STORM LINE UP AND DOWN.
13. 4" OVERFLOW DRAIN STORM LINE UP AND DOWN.
14. 1-1/2" VENT LINE UP AND DOWN.
15. 3" ROOF DRAIN STORM LINE UP AND DOWN.
16. 3" OVERFLOW DRAIN STORM LINE UP AND DOWN.

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ARCHITECT	: DAS	CHECKED	: DPW / MAH / TWH
ENGINEER	: AJM	APPROVED	: AJM

NO.	REVISION DESCRIPTION	DATE

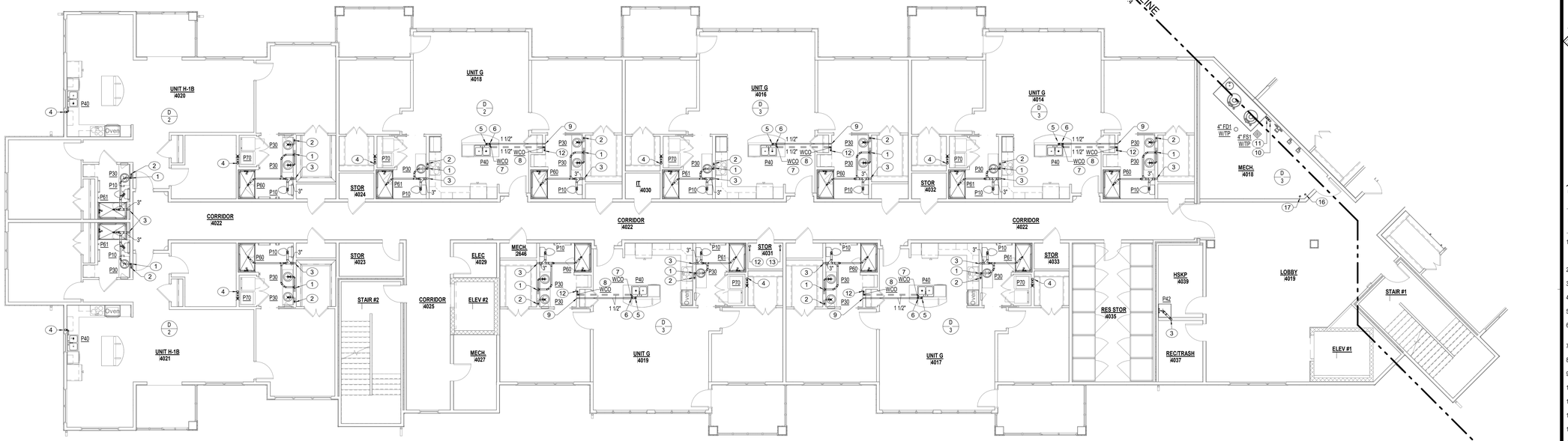
DRAWING TITLE

THIRD FLOOR PLAN - WASTE, VENT AND STORM

DATE: 03/13/2026

COMM. NO. 25116.00

DRAWING P1.3

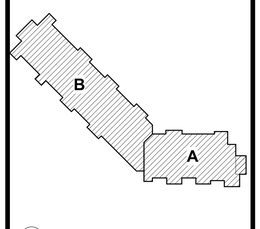


2 P1.4 FOURTH FLOOR PLAN - AREA B - WASTE, VENT AND STORM

1/8" = 1'-0"

1 P1.4 FOURTH FLOOR PLAN - AREA A - WASTE, VENT AND STORM

1/8" = 1'-0"



PLAN NOTES

1. 2" WASTE LINE UP TO FIXTURE ON FLOOR ABOVE; 2" VENT LINE DOWN TO FIXTURE ON THIS FLOOR. CONTINUE 2" WASTE LINE DOWN TO FLOOR BELOW.
2. 2" VENT LINE UP AND DOWN.
3. 3" VENT LINE UP, 3" WASTE LINE DOWN.
4. 3" WASTE LINE UP AND DOWN.
5. 1-1/2" WASTE AND VENT LINE UP TO FIXTURE ON FLOOR ABOVE.
6. 1-1/2" WASTE AND VENT LINE DOWN FROM FIXTURE ON THIS FLOOR TO FLOOR BELOW.
7. PROVIDE CLEANOUT IN AN ACCESSIBLE LOCATION BELOW SINK.
8. PROVIDE CLEANOUT IN AN ACCESSIBLE LOCATION IN CLOSET.
9. 2" VENT LINE UP; 2" WASTE LINE DOWN.
10. 3" VENT LINE UP AND DOWN.
11. 3" VENT LINE DOWN.
12. 1-1/2" VENT LINE UP AND DOWN.
13. 4" ROOF DRAIN STORM LINE UP AND DOWN.
14. 4" OVERFLOW DRAIN STORM LINE UP AND DOWN.
15. 4" VENT LINE UP; CONTINUE 4" WASTE LINE DOWN.
16. 3" ROOF DRAIN STORM LINE UP AND DOWN.
17. 3" OVERFLOW DRAIN STORM LINE UP AND DOWN

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ALLEN J MCHUTT
NUMBER PE-2023009252
03/13/2026
PROFESSIONAL ENGINEER
STATE OF MISSOURI

BID SET

PROJECT TITLE

John Knox Village

MEADOWS BUILDING PHASE III

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NO.	REVISION DESCRIPTION	DATE

DRAWING TITLE

FOURTH FLOOR PLAN - WASTE, VENT AND STORM

DATE:	03/13/2026	DRAWING	P1.4
COMM. NO.	25116.00		

3/13/2026
8:50:08 AM

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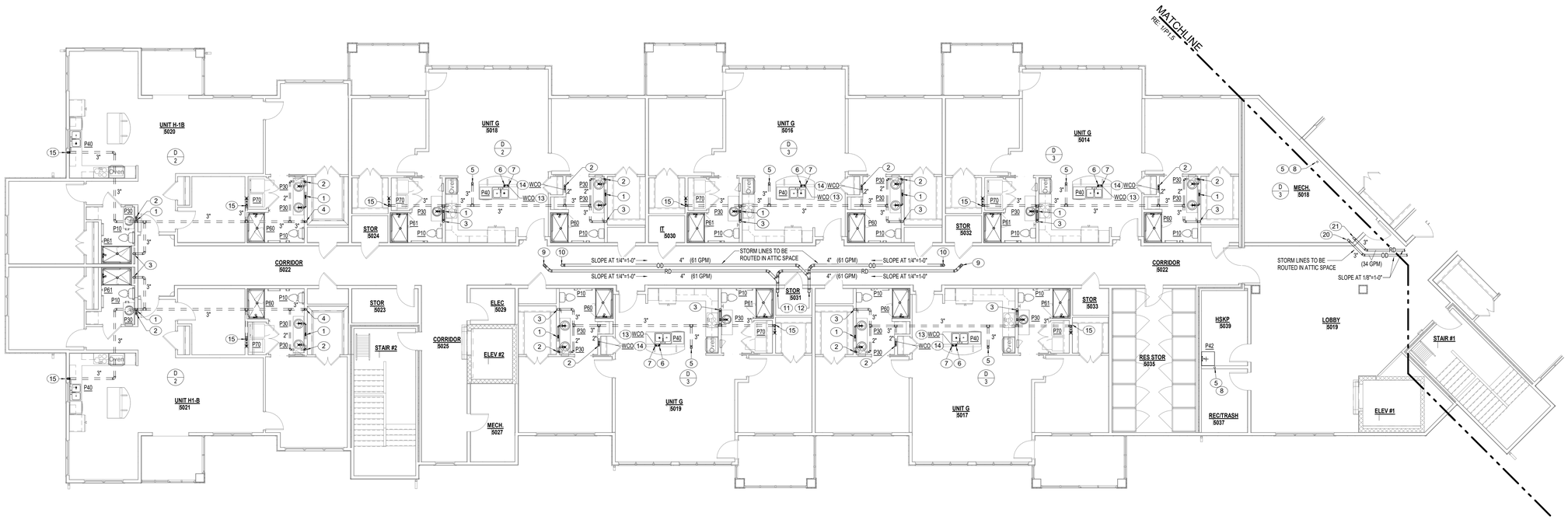
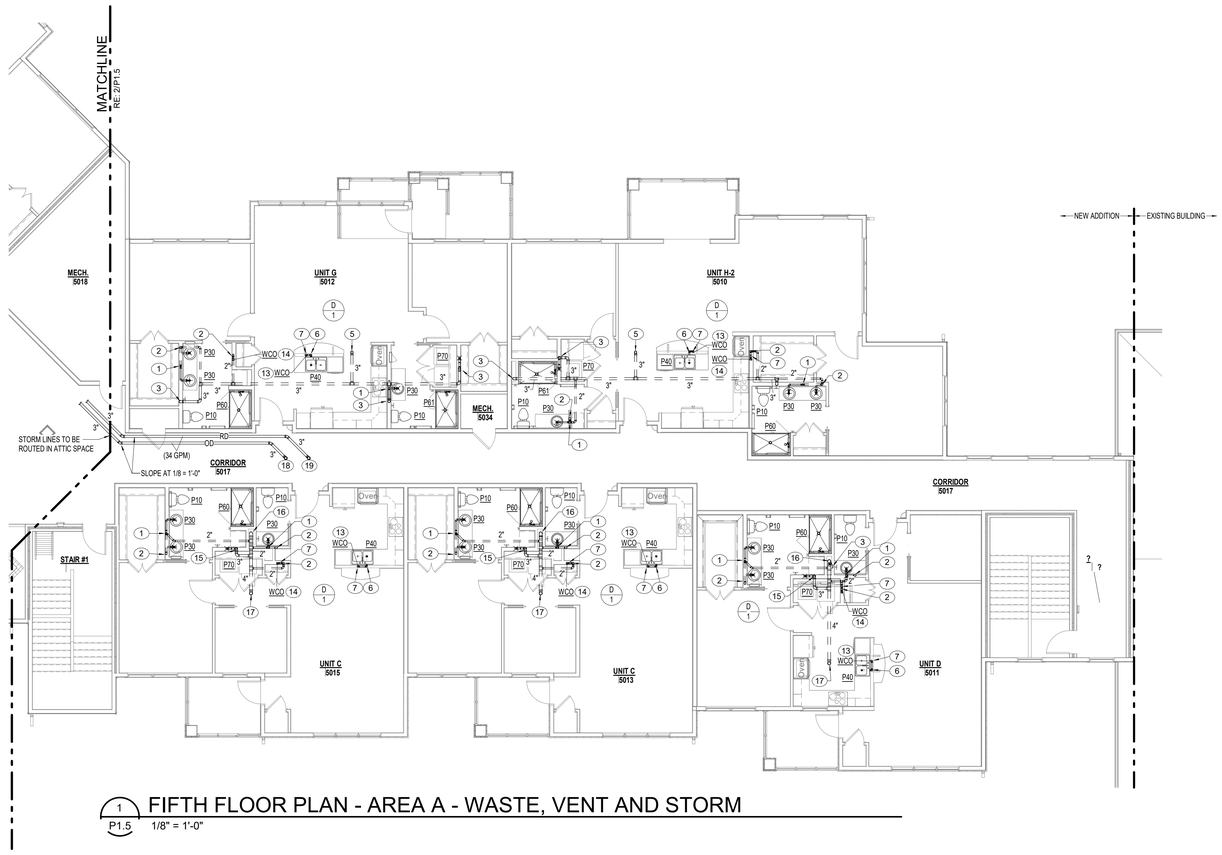


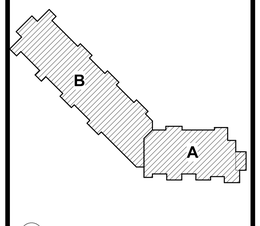
2 P1.5 FIFTH FLOOR PLAN - AREA B - WASTE, VENT AND STORM

1/8" = 1'-0"



1 P1.5 FIFTH FLOOR PLAN - AREA A - WASTE, VENT AND STORM

1/8" = 1'-0"



PLAN NOTES

1. 2" VENT LINE DOWN TO FIXTURE; CONTINUE 2" WASTE LINE DOWN TO FLOOR BELOW.
2. 2" VENT LINE DOWN.
3. 3" VENT LINE DOWN.
4. 3" VENT LINE DOWN; CONTINUE 3" VENT LINE UP TO 3" VENT THROUGH ROOF.
5. 3" VENT LINE UP TO 3" VENT THROUGH ROOF.
6. 1-1/2" WASTE LINE DOWN.
7. 1-1/2" VENT LINE DOWN.
8. 3" VENT LINE UP AND DOWN.
9. 4" ROOF DRAIN STORM LINE UP TO ROOF DRAIN.
10. 4" OVERFLOW DRAIN STORM LINE UP TO OVERFLOW DRAIN.
11. 4" ROOF DRAIN STORM LINE DOWN.
12. 4" OVERFLOW DRAIN STORM LINE DOWN.
13. PROVIDE CLEANOUT IN AN ACCESSIBLE LOCATION BELOW SINK.
14. PROVIDE CLEANOUT IN AN ACCESSIBLE LOCATION IN CLOSET.
15. 3" VENT LINE DOWN; CONTINUE 3" WASTE LINE DOWN TO BELOW FLOOR.
16. 4" VENT LINE DOWN.
17. 4" VENT LINE UP TO 4" VENT THROUGH ROOF.
18. 3" OVERFLOW DRAIN STORM LINE UP TO OVERFLOW DRAIN.
19. 3" ROOF DRAIN STORM LINE UP TO ROOF DRAIN.
20. 3" OVERFLOW DRAIN STORM LINE DOWN.
21. 3" ROOF DRAIN STORM LINE DOWN.

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NUMBER
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STATE OF MISSOURI

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John Knox Village

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ENGINEER	: AJM	APPROVED	: AJM

NO.	REVISION DESCRIPTION	DATE

DRAWING TITLE

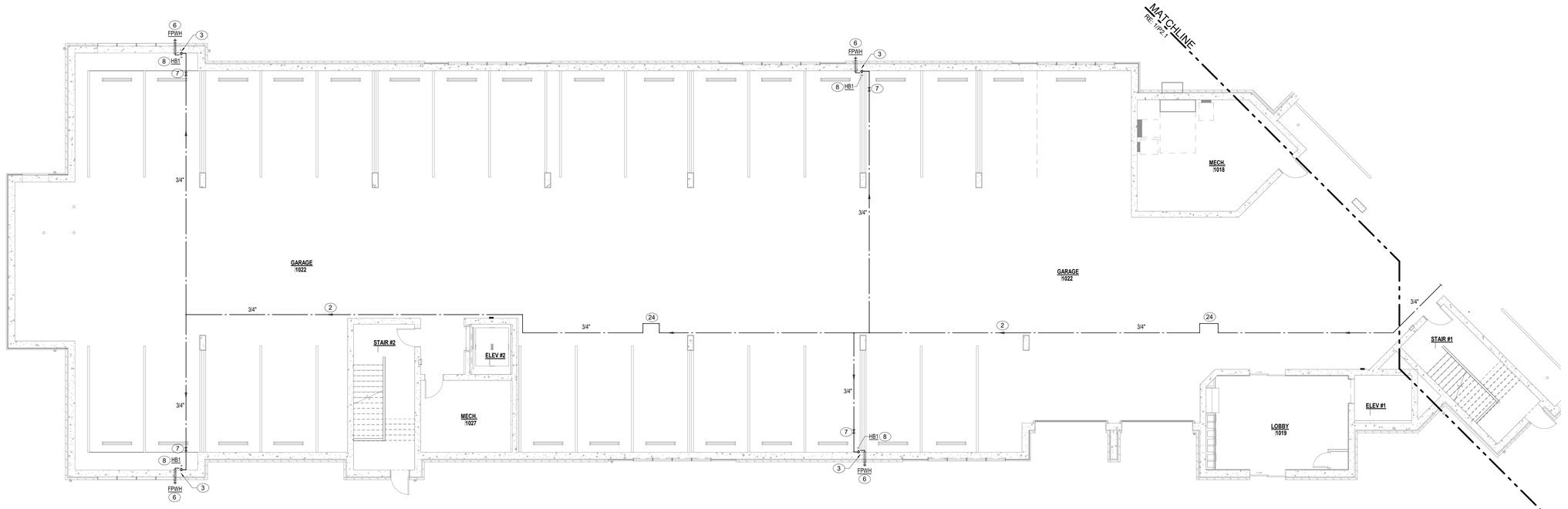
FIFTH FLOOR PLAN - WASTE, VENT AND STORM

PLAN NORTH

DATE: 03/13/2026

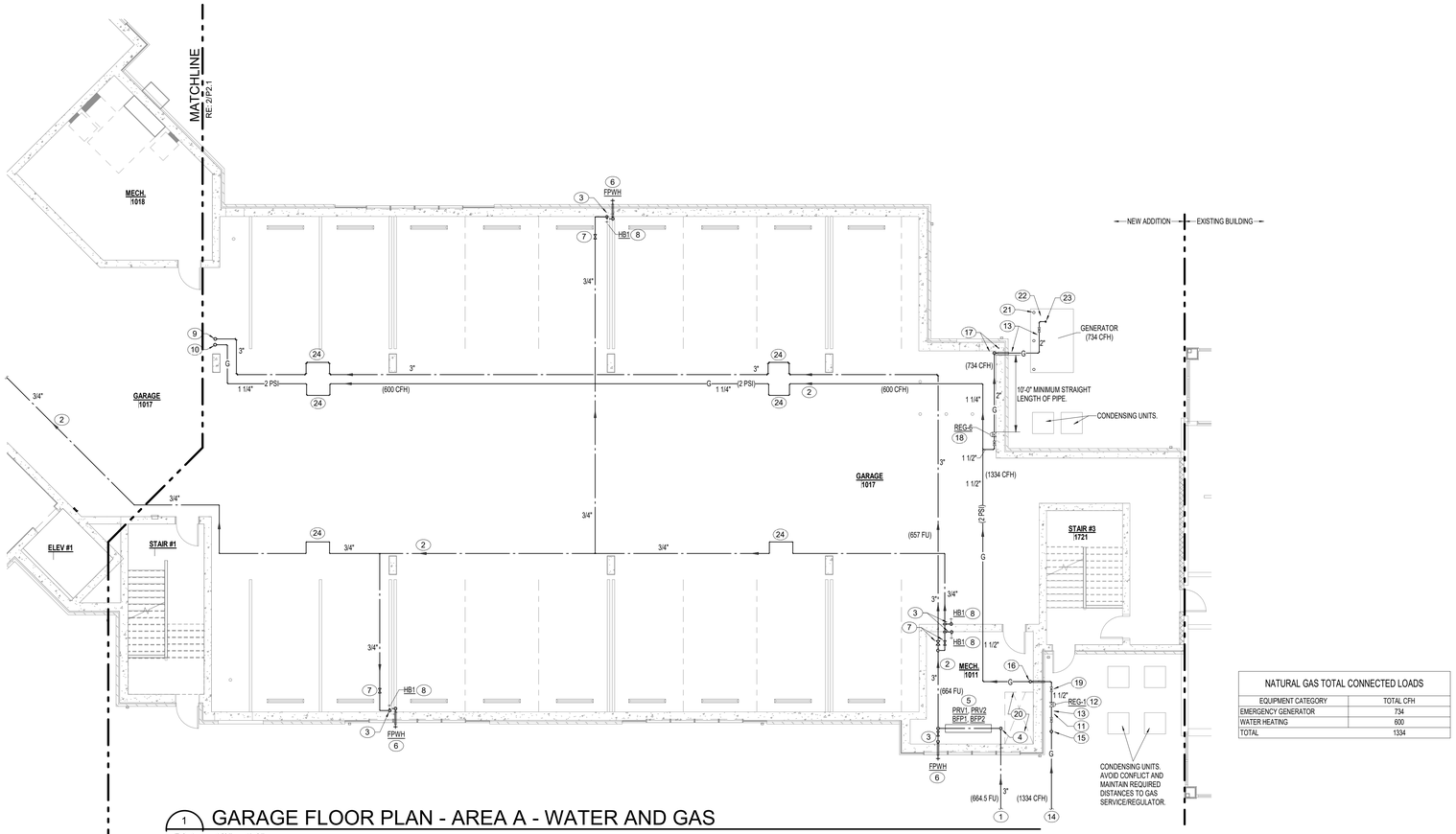
COMM. NO. 25116.00

DRAWING P1.5



2 P2.1 GARAGE FLOOR PLAN - AREA B - WATER AND GAS

1/8" = 1'-0"

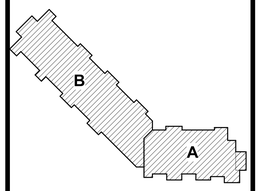


1 P2.1 GARAGE FLOOR PLAN - AREA A - WATER AND GAS

1/8" = 1'-0"

NATURAL GAS TOTAL CONNECTED LOADS

EQUIPMENT CATEGORY	TOTAL CFH
EMERGENCY GENERATOR	734
WATER HEATING	600
TOTAL	1334



PLAN NOTES

1. 3" COLD WATER LINE OUT TO SITE 5'-0". REFER TO CIVIL ENGINEERS DRAWINGS FOR CONTINUATION. PLUMBING CONTRACTOR SHALL MAKE FINAL CONNECTION.
2. INDICATES FLOW DIRECTION IN LINE (TYPICAL).
3. 3/4" CW LINE DOWN ON WALL TO HOSE BIBHYDRANT AND CONNECT. SLEEVE EXTERIOR WALL AND SEAL WATERTIGHT.
4. 3" CW LINE UP FROM BELOW FLOOR. AVOID CONFLICT WITH FOOTINGS.
5. REDUCED PRESSURE TYPE BACKFLOW PREVENTERS AND PRVS. REFER TO DETAIL SHEET P0.1 FOR ADDITIONAL INFORMATION.
6. MOUNT FPWH 24" ABOVE GRADE. VERIFY ELEVATION ON SITE WITH BUILDING FACADE ELEMENTS.
7. PROVIDE VALVES IN LINE IN AN ACCESSIBLE LOCATION.
8. MOUNT HB1 18" ABOVE FLOOR.
9. 3" CW LINE UP.
10. 1-1/4" (2 PSI) LINE UP.
11. GAS REGULATOR STATION MOUNTED ON WALL. REFER TO DETAIL SHEET P0.1 FOR ADDITIONAL INFORMATION.
12. MAIN NATURAL GAS PRESSURE REGULATOR. REFER TO "GAS PRESSURE REGULATOR PIPING DIAGRAM AND SCHEDULE", SHEET P0.1 FOR ADDITIONAL INFORMATION.
13. PAINT ALL EXPOSED GAS PIPING AND ACCESSORIES WITH TWO COATS OF RUST INHIBITOR TYPE PAINT. COLOR TO BE DETERMINED BY GAS COMPANY.
14. GAS SERVICE LINE OUT TO SITE 5'-0". REFER TO CIVIL ENGINEERS PLANS FOR CONTINUATION.
15. GAS SERVICE LINE UP FROM BELOW GRADE. AVOID CONFLICT WITH STRUCTURAL FOOTINGS.
16. 1-1/2" (2 PSI) GAS LINE UP ON WALL. PROVIDE MAIN GAS SHUT-OFF VALVE IN VERTICAL PIPING. PROVIDE SIGN STATING "MAIN GAS SHUT-OFF VALVE - DO NOT OPERATE". SLEEVE WALL PENETRATION AND SEAL WATERTIGHT.
17. 2" GAS LINE DOWN TO ON WALL. PROVIDE GAS VALVE AND 6" LONG DIRT LEG. EXTEND LINE OUT THROUGH WALL FOR CONNECTION TO GENERATOR. SLEEVE EXTERIOR WALL AND SEAL WATERTIGHT.
18. NATURAL GAS PRESSURE REGULATOR. REFER TO "GAS PRESSURE REGULATOR PIPING DIAGRAM AND SCHEDULE", SHEET P0.1 FOR ADDITIONAL INFORMATION.
19. PROVIDE EXTERIOR GAS SHUT-OFF VALVE.
20. LOCATION OF FIRE SERVICE ENTRANCE, RISER AND ASSOCIATED EQUIPMENT.
21. PROVIDE 6" DIAMETER SCHEDULE 40 STEEL PIPE BOLLARDS TO PROTECT GAS PIPING AND EQUIPMENT. PIPE BOLLARDS TO BE 6'-0" LONG BURIED 2'-0" AND FILLED WITH CONCRETE. DOME TOPS AND PAINT WITH 2 COATS OF RUST INHIBITOR PAINT. COLOR TO BE SELECTED BY OWNER.
22. CONCRETE PAD. REFER TO STRUCTURAL PLANS FOR ADDITIONAL INFORMATION.
23. PROVIDE GAS CONNECTION TO GENERATOR REFER TO GAS GENERATOR CONNECTION DETAIL SHEET P0.1 FOR ADDITIONAL INFORMATION.
24. PROVIDE EXPANSION LOOP IN PIPING AS REQUIRED BY PIPING MANUFACTURE'S REQUIREMENTS.

STATE OF MISSOURI
ALLEN J. MCHUTT
NUMBER PE-2023009252
03/13/2026
PROFESSIONAL ENGINEER

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ARCHITECT : DAS	CHECKED : DPW / MAH / TWH
ENGINEER : AJM	APPROVED : AJM

NO.	REVISION DESCRIPTION	DATE

DRAWING TITLE

GARAGE FLOOR PLAN - WATER AND GAS

DATE: 03/13/2026

COMM. NO. 25116.00

DRAWING P2.1

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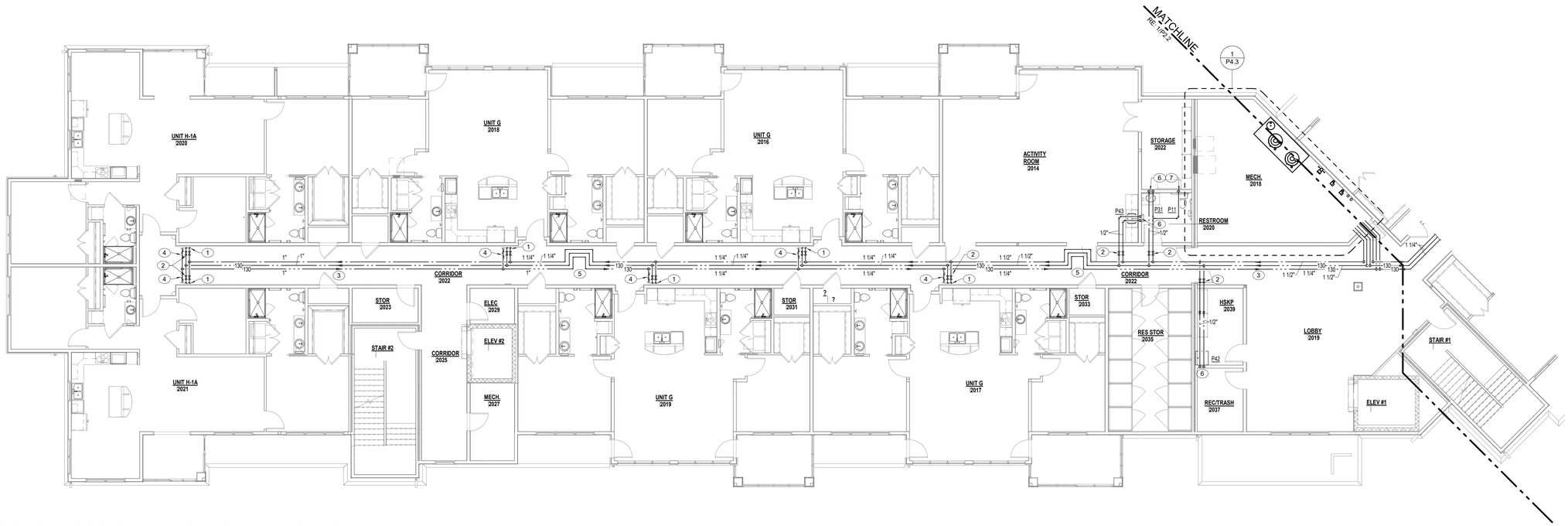
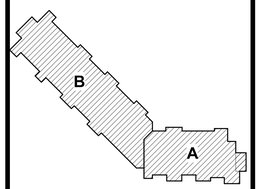


2 / P2.2 SECOND FLOOR PLAN - AREA B - WATER AND GAS

1/8" = 1'-0"

1 / P2.2 SECOND FLOOR PLAN - AREA A - WATER AND GAS

1/8" = 1'-0"



PLAN NORTH

PLAN NOTES

1. REFER TO TYPICAL ENLARGED UNIT PLAN FOR WATER PIPING SERVING UNIT ON THIS FLOOR.
2. PROVIDE SHUT-OFF VALVES IN AN ACCESSIBLE LOCATION ABOVE LAY-IN CEILING. LOCATION OF VALVES SHOWN IS BASED ON LAY-IN CEILING LOCATIONS. (TYPICAL FOR ALL SHUT-OFF VALVES SHOWN ON THIS SHEET, UNLESS NOTED OTHERWISE).
3. INDICATES FLOW DIRECTION IN LINE (TYPICAL).
4. HOT WATER RETURN THERMOSTATIC BALANCING VALVE. LOCATE ABOVE ACCESSIBLE LAY-IN CEILING. REFER TO DETAIL, SHEET P4.3 FOR ADDITIONAL INFORMATION.
5. PROVIDE EXPANSION LOOP IN WATER LINES ABOVE CEILING.
6. 1/2" CW, HW LINES DOWN IN WALL TO FIXTURE AND CONNECT.
7. 1/2" CW LINE DOWN IN WALL TO FIXTURE AND CONNECT.

STATE OF MISSOURI
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03/13/2026
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ENGINEER	: AJM	APPROVED	: AJM

NO.	REVISION DESCRIPTION	DATE

DRAWING TITLE

SECOND FLOOR PLAN - WATER AND GAS

DATE: 03/13/2026

COMM. NO. 25116.00

DRAWING P2.2

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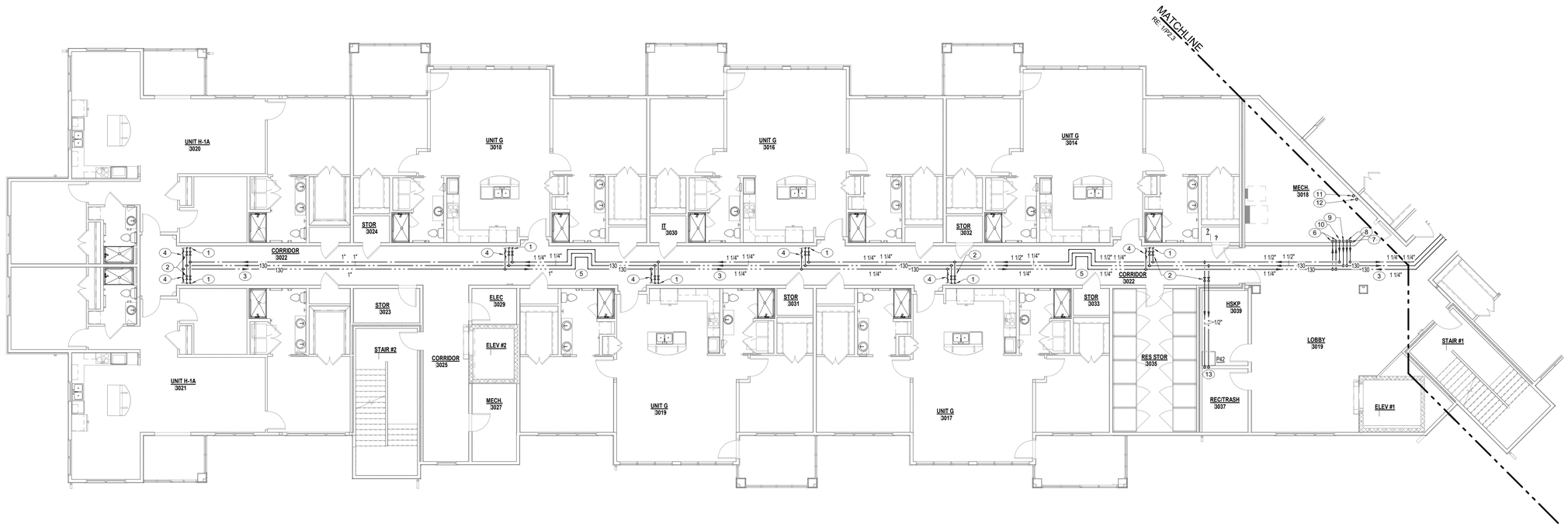
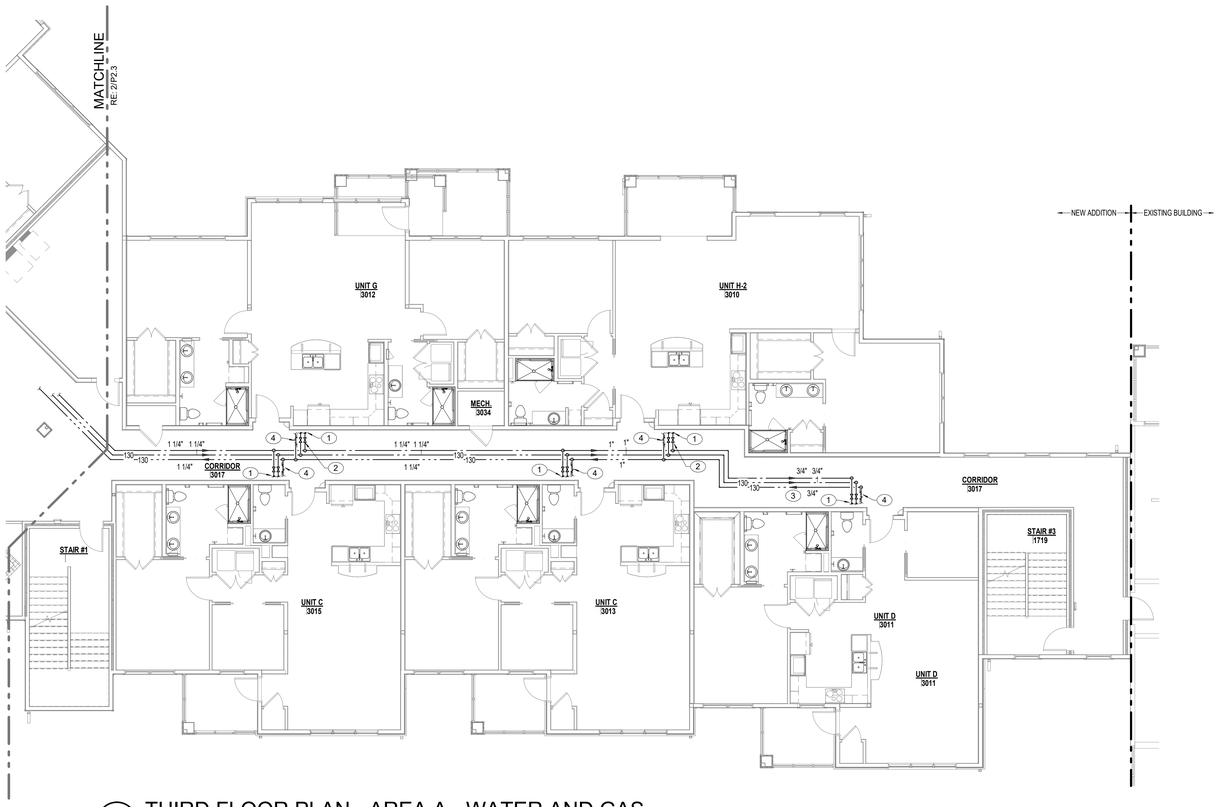


2 P2.3 THIRD FLOOR PLAN - AREA B - WATER AND GAS

1/8" = 1'-0"



1 P2.3 THIRD FLOOR PLAN - AREA A - WATER AND GAS

1/8" = 1'-0"

PLAN NOTES

1. REFER TO TYPICAL ENLARGED UNIT PLAN FOR WATER PIPING SERVING UNIT ON THIS FLOOR.
2. PROVIDE SHUT-OFF VALVES IN AN ACCESSIBLE LOCATION ABOVE LAY-IN CEILING. LOCATION OF VALVES SHOWN IS BASED ON LAY-IN CEILING LOCATIONS. (TYPICAL FOR ALL SHUT-OFF VALVES SHOWN ON THIS SHEET, UNLESS NOTED OTHERWISE).
3. INDICATES FLOW DIRECTION IN LINE (TYPICAL).
4. HOT WATER RETURN THERMOSTATIC BALANCING VALVE. LOCATE ABOVE ACCESSIBLE LAY-IN CEILING. REFER TO DETAIL, SHEET P4.3 FOR ADDITIONAL INFORMATION.
5. PROVIDE EXPANSION LOOP IN WATER LINES ABOVE CEILING.
6. 1-1/4" HWR LINES DOWN TO BELOW.
7. 1-1/4" CW LINE DOWN TO BELOW.
8. 1-1/4" HW LINE DOWN TO BELOW.
9. 1-1/2" HW LINE DOWN TO BELOW.
10. 1-1/2" CW LINE DOWN TO BELOW.
11. 3" CW LINE UP AND DOWN.
12. 1-1/4" (2 PSI) GAS LINE UP AND DOWN.
13. 1/2" CW / HW LINES DOWN IN WALL TO FIXTURE AND CONNECT.

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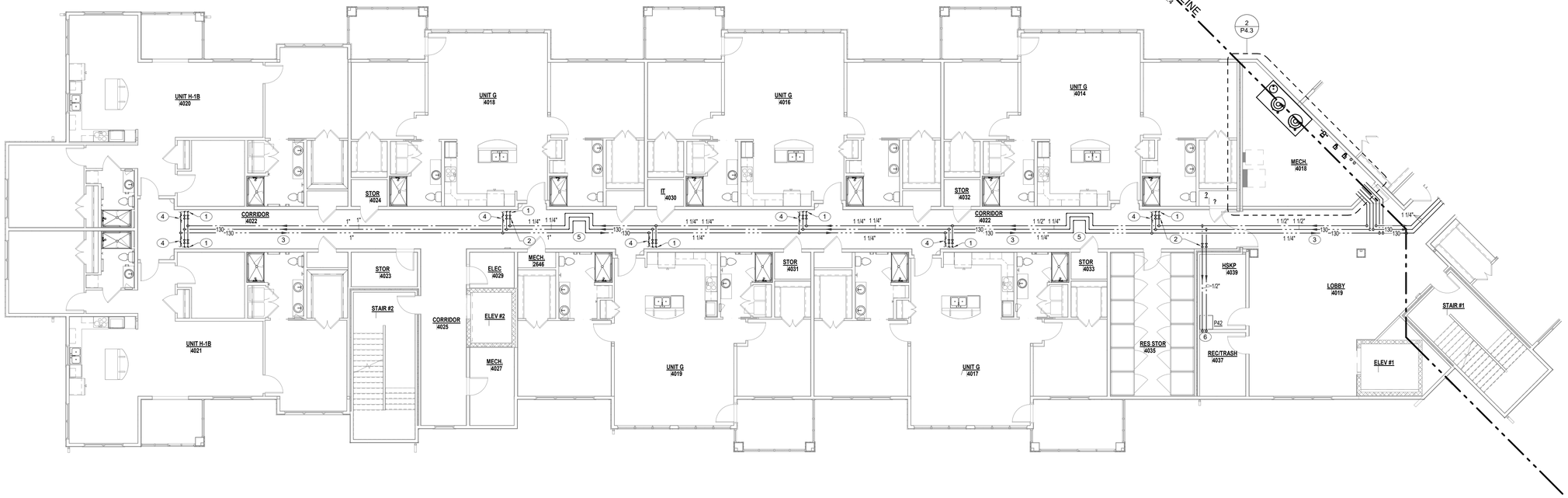
DRAWING TITLE

THIRD FLOOR PLAN - WATER AND GAS

DATE: 03/13/2026

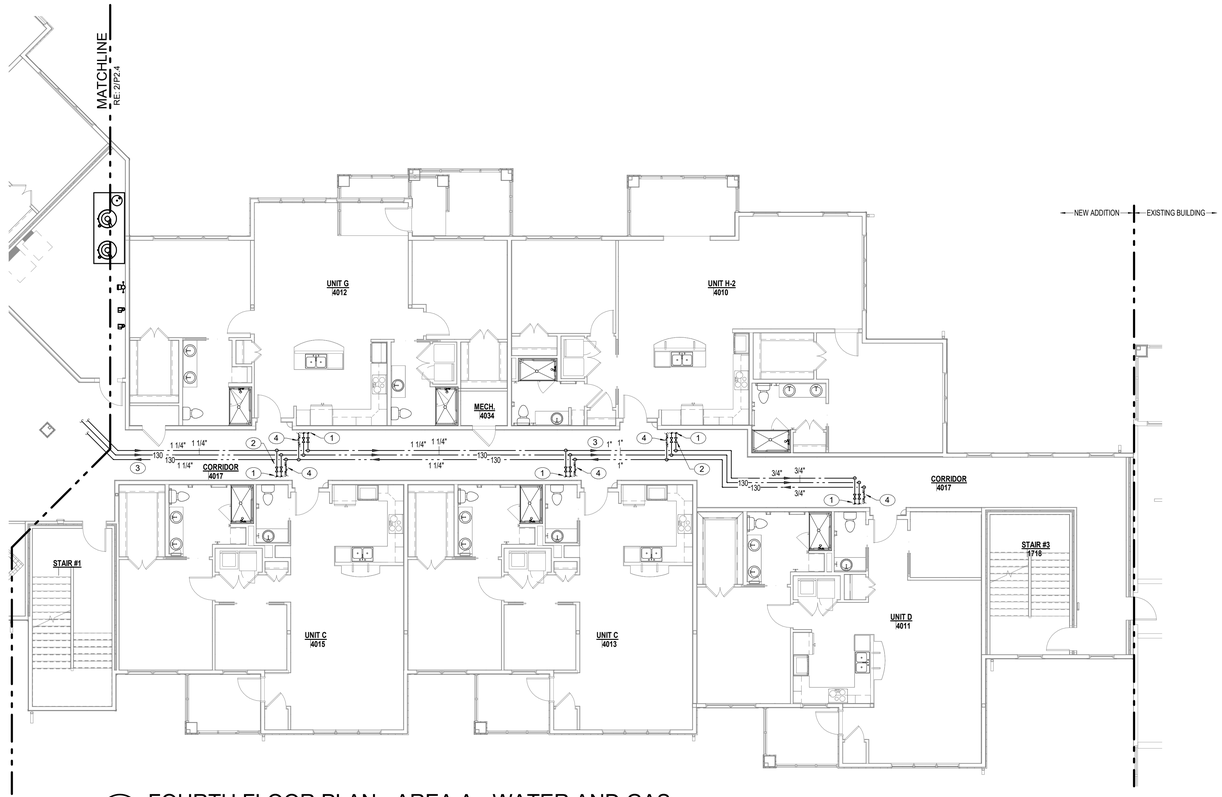
COMM. NO. 25116.00

DRAWING P2.3



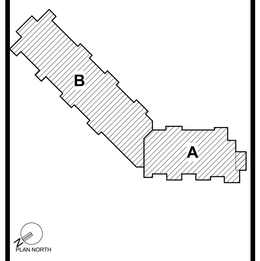
2 FOURTH FLOOR PLAN - AREA B - WATER AND GAS

P2.4 1/8" = 1'-0"



1 FOURTH FLOOR PLAN - AREA A - WATER AND GAS

P2.4 1/8" = 1'-0"



PLAN NOTES

1. REFER TO TYPICAL ENLARGED UNIT PLAN FOR WATER PIPING SERVING UNIT ON THIS FLOOR.
2. PROVIDE SHUT-OFF VALVES IN AN ACCESSIBLE LOCATION ABOVE LAY-IN CEILING. LOCATION OF VALVES SHOWN IS BASED ON LAY-IN CEILING LOCATIONS. (TYPICAL FOR ALL SHUT-OFF VALVES SHOWN ON THIS SHEET, UNLESS NOTED OTHERWISE).
3. INDICATES FLOW DIRECTION IN LINE (TYPICAL).
4. HOT WATER RETURN THERMOSTATIC BALANCING VALVE. LOCATE ABOVE ACCESSIBLE LAY-IN CEILING. REFER TO DETAIL, SHEET P4.3 FOR ADDITIONAL INFORMATION.
5. PROVIDE EXPANSION LOOP IN WATER LINES ABOVE CEILING.
6. 1/2" CW / HW LINES DOWN IN WALL TO FIXTURE AND CONNECT.

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DRAWING TITLE

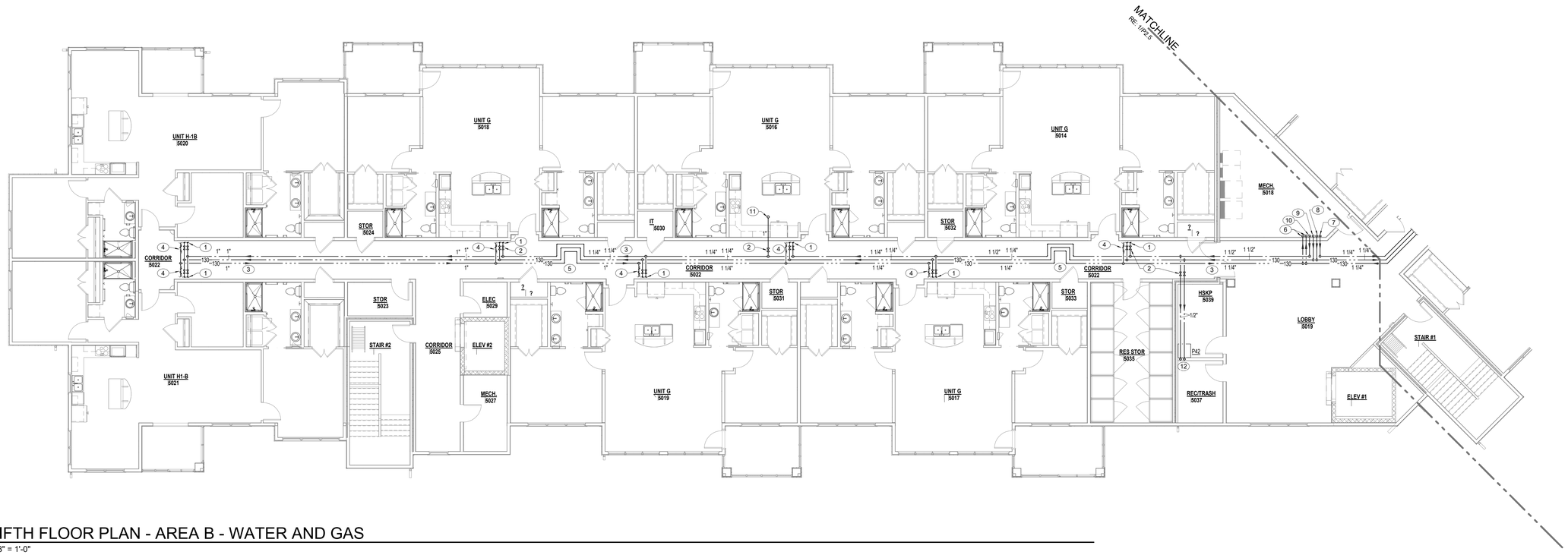
FOURTH FLOOR PLAN - WATER AND GAS

PLAN NORTH

DATE: 03/13/2026

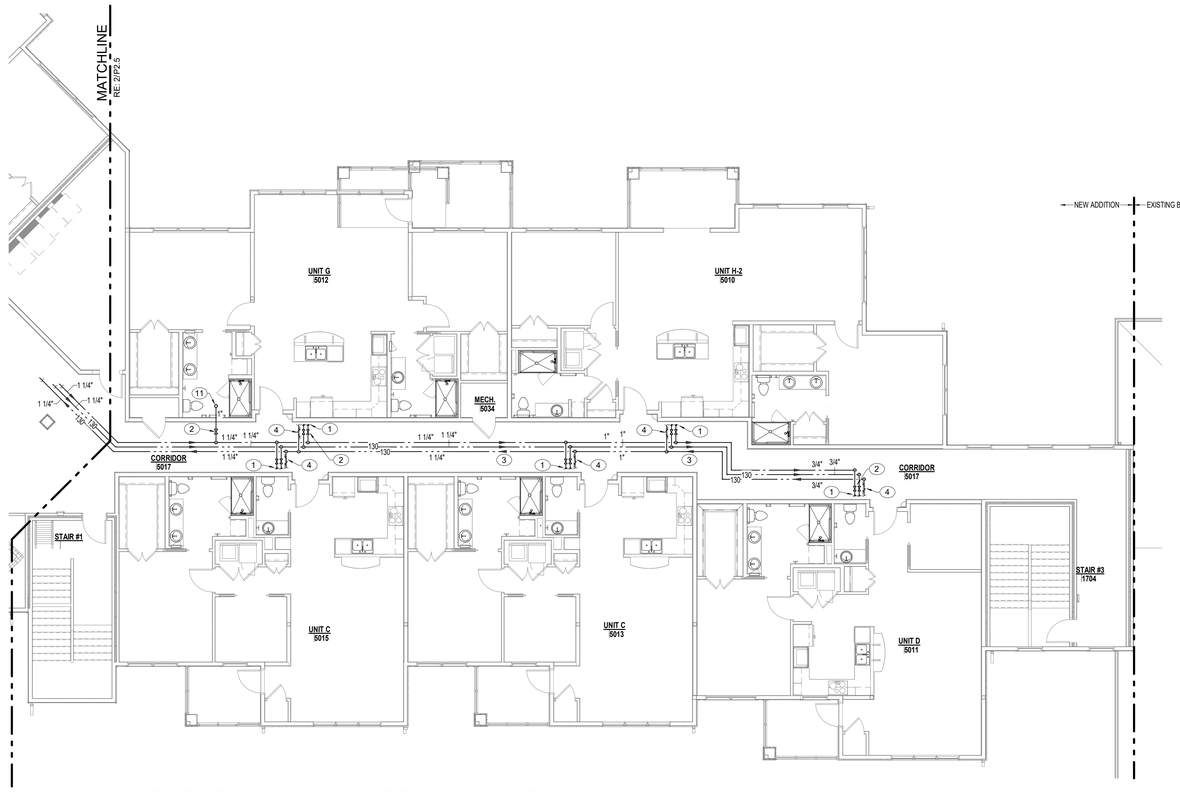
COMM. NO. 25116.00

DRAWING P2.4



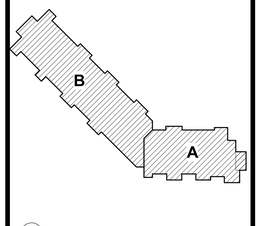
2 FIFTH FLOOR PLAN - AREA B - WATER AND GAS

P2.5 1/8" = 1'-0"



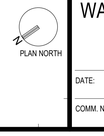
1 FIFTH FLOOR PLAN - AREA A - WATER AND GAS

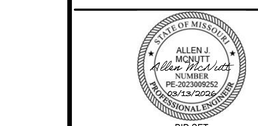
P2.5 1/8" = 1'-0"



PLAN NOTES

1. REFER TO TYPICAL ENLARGED UNIT PLAN FOR WATER PIPING SERVING UNIT ON THIS FLOOR.
2. PROVIDE SHUT-OFF VALVES IN AN ACCESSIBLE LOCATION ABOVE LAY-IN CEILING. LOCATION OF VALVES SHOWN IS BASED ON LAY-IN CEILING LOCATIONS. (TYPICAL FOR ALL SHUT-OFF VALVES SHOWN ON THIS SHEET, UNLESS NOTED OTHERWISE).
3. INDICATES FLOW DIRECTION IN LINE (TYPICAL).
4. HOT WATER RETURN THERMOSTATIC BALANCING VALVE. LOCATE ABOVE ACCESSIBLE LAY-IN CEILING. REFER TO DETAIL, SHEET P4.3 FOR ADDITIONAL INFORMATION.
5. PROVIDE EXPANSION LOOP IN WATER LINES ABOVE CEILING.
6. 1-1/4" HWR LINES DOWN TO BELOW.
7. 1-1/4" CW LINE DOWN TO BELOW.
8. 1-1/4" HW LINE DOWN TO BELOW.
9. 1-1/2" HW LINE DOWN TO BELOW.
10. 1-1/2" CW LINE DOWN TO BELOW.
11. 1" CW LINE UP TO ROOF POST HYDRANT. PROVIDE SHUT OFF VALVE IN CONNECTION AND EXTEND DRAIN LINE FULL SIZE AND SPILL TO FLOOR SINK IN MECHANICAL ROOM #4018.
12. 1/2" CW / HW LINES DOWN IN WALL TO FIXTURE AND CONNECT.





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PROJECT TITLE

John Knox Village

MEADOWS BUILDING PHASE III

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NO.	REVISION DESCRIPTION	DATE

DRAWING TITLE

FIFTH FLOOR PLAN - WATER AND GAS

DATE: 03/13/2026

COMM. NO. 25116.00

DRAWING P2.5

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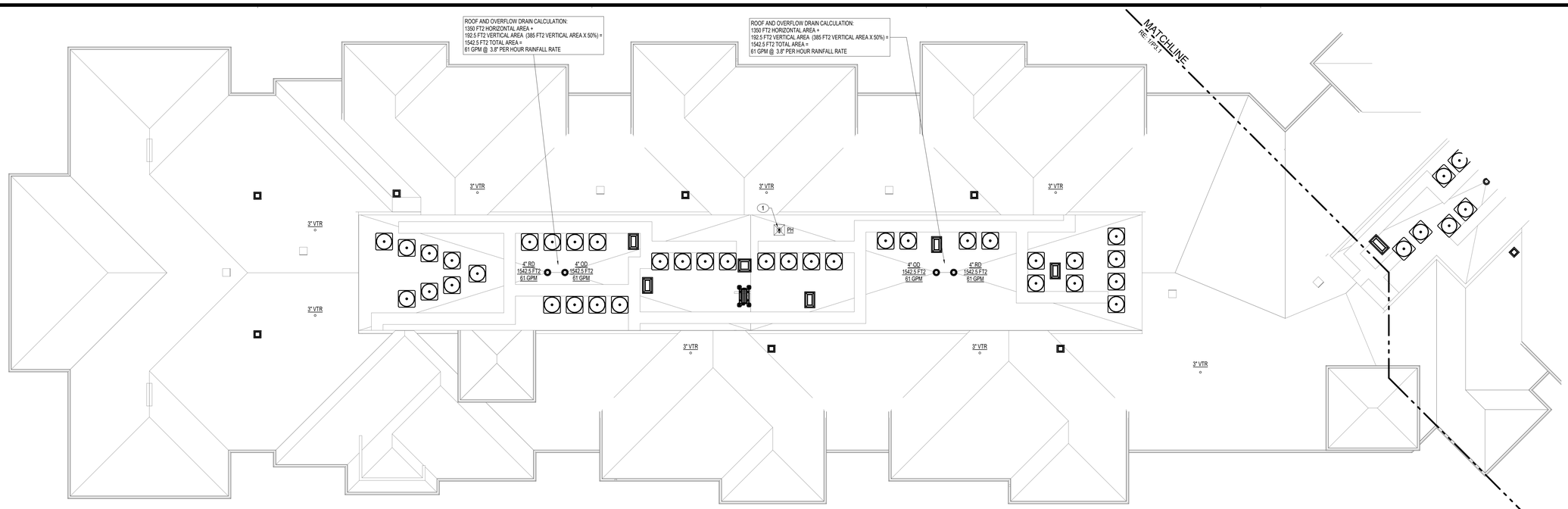
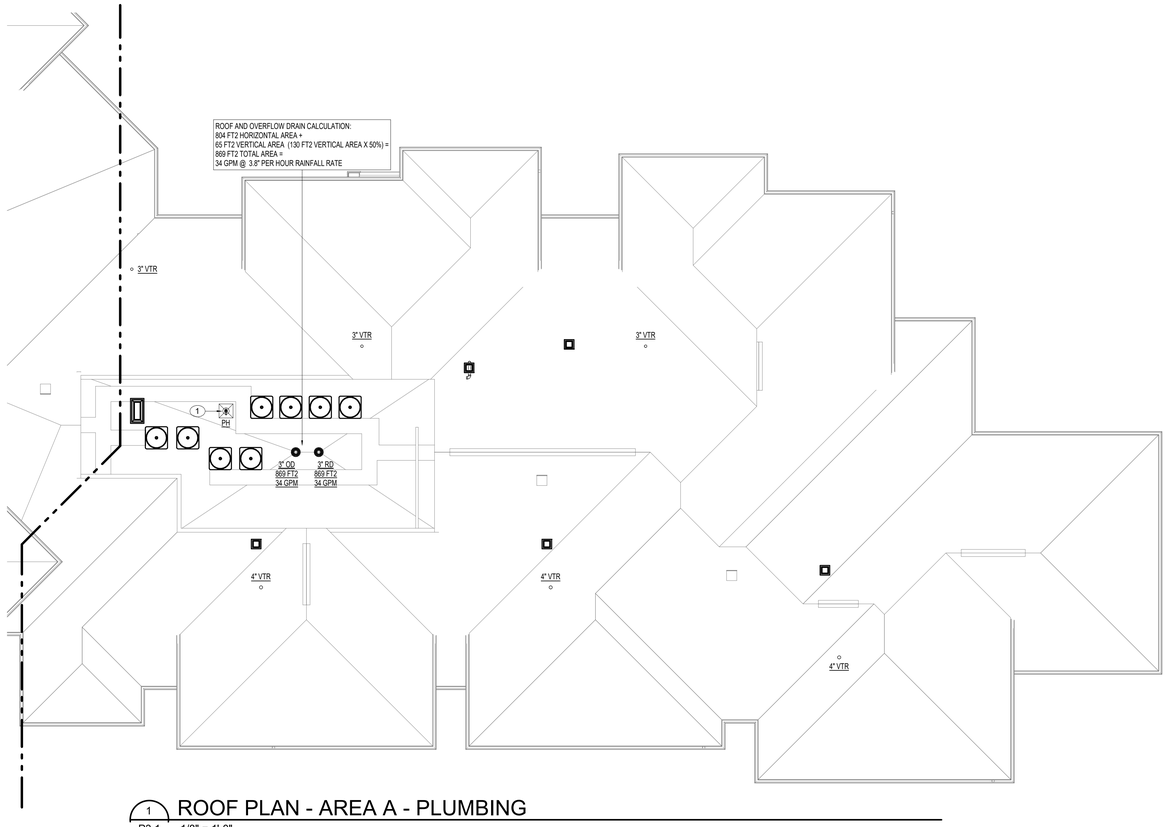


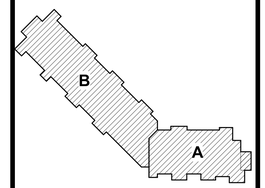
2 P3.1 ROOF PLAN - AREA B - PLUMBING

1/8" = 1'-0"



1 P3.1 ROOF PLAN - AREA A - PLUMBING

1/8" = 1'-0"



PLAN NORTH

PLAN NOTES

1. 1" CW LINE UP FROM BELOW IN A ROOF CURB ASSEMBLY TO ROOF POST HYDRANT. REFER TO PLUMBING FIXTURE SCHEDULE, SHEET P0.0 AND "ROOF POST HYDRANT DETAIL", SHEET P0.1 FOR ADDITIONAL INFORMATION.

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PROJECT TITLE

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MEADOWS BUILDING PHASE III

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Planning
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ENGINEER	AJM	APPROVED	AJM

NO.	REVISION DESCRIPTION	DATE

DRAWING TITLE

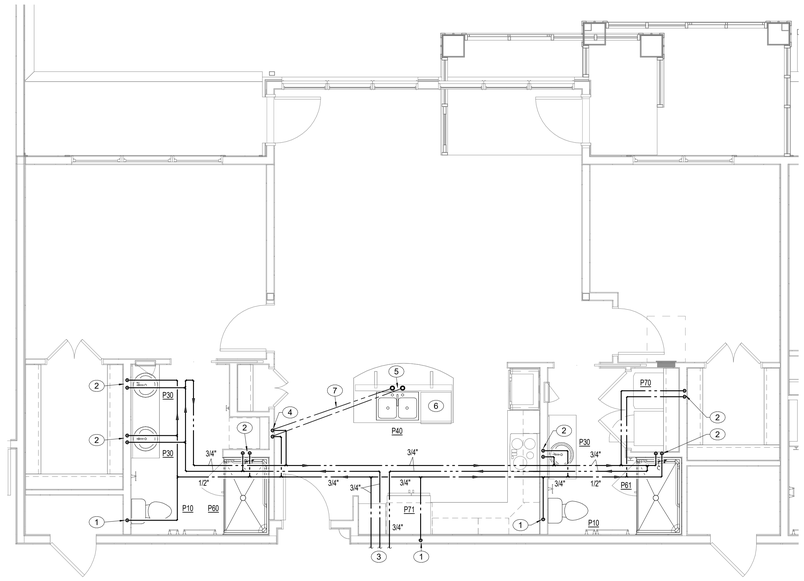
ROOF PLAN - PLUMBING

PLAN NORTH

DATE: 03/13/2026

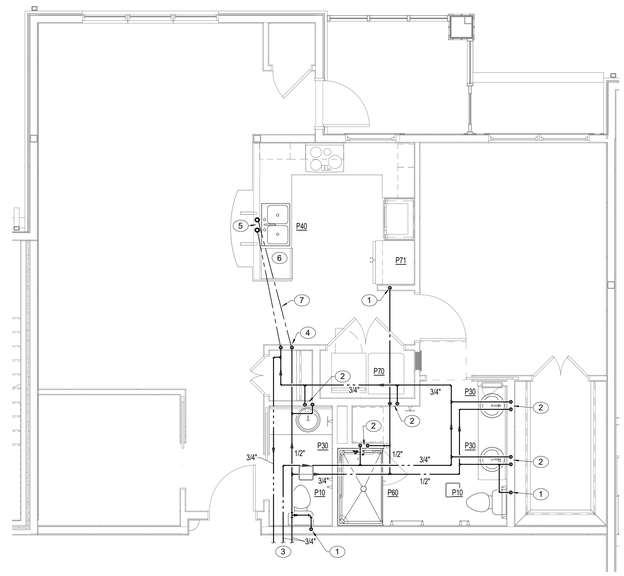
COMM. NO. 25116.00

DRAWING P3.1



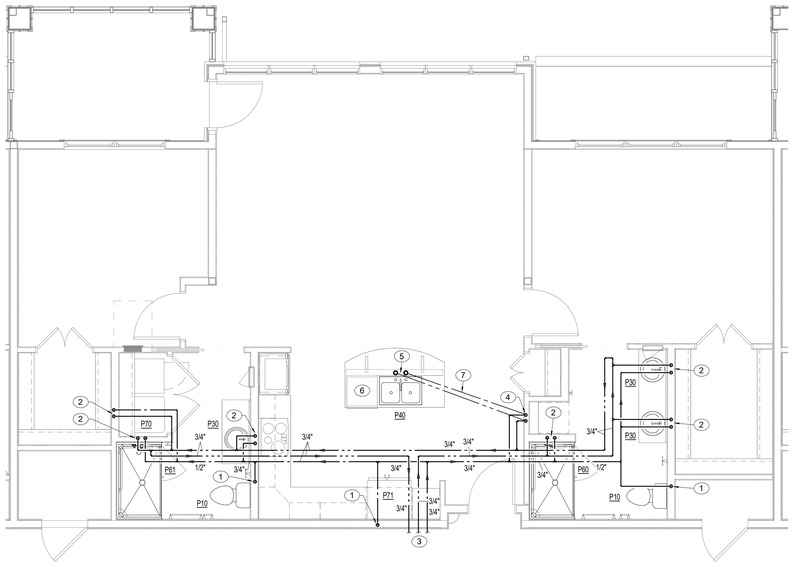
4 P4.1 UNIT G - THE BROOKSIDE (MIRRORED)

1/4" = 1'-0"



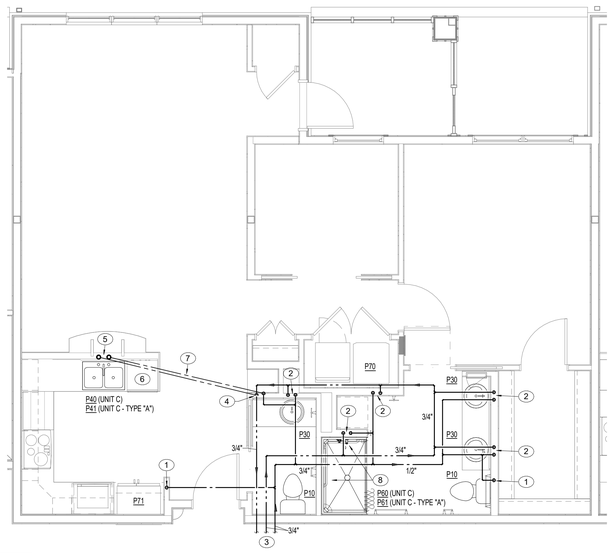
2 P4.1 UNIT D - THE STARLIGHT

1/4" = 1'-0"



3 P4.1 UNIT G - THE BROOKSIDE

1/4" = 1'-0"



NOTE:
PIPING LAYOUT SHOWN APPLIES TO BOTH UNIT C AND UNIT C - TYPE A UNITS. REFER TO FLOOR PLANS AND ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION ON EXACT PLUMBING FIXTURE LOCATIONS WITHIN UNITS.

1 P4.1 UNIT C & UNIT C - TYPE "A" - THE MONARCH

1/4" = 1'-0"

GENERAL NOTES

1. REFER TO FLOOR PLANS FOR ORIENTATION OF UNIT PLANS. UNIT PIPING MAY BE MIRRORED AND/OR OPPOSITE HAND BASED ON THE LOCATION AND CONFIGURATION OF THE UNIT IN THE BUILDING.
2. PIPING ROUTED IN JOIST SPACE AND THROUGH JOISTS SHALL BE INSTALLED AND LOCATED IN ACCORDANCE WITH JOIST MANUFACTURERS RECOMMENDATIONS. COORDINATE PIPE ROUTING WITH GENERAL CONTRACTOR PRIOR TO ROUGH-IN. PIPING SHOWN IS SCHEMATIC AND INDICATED FOR DESIGN INTENT.
3. ALL PIPE SIZES NOT INDICATED ON PIPING ON THIS SHEET SHALL BE 1/2" PIPE SIZE, UNLESS INDICATED OTHERWISE.

PLAN NOTES

1. 1/2" CW LINE DOWN TO FIXTURE AND CONNECT.
2. 1/2" CW, 1/2" HW LINES DOWN TO FIXTURE(S) AND CONNECT.
3. REFER TO FLOOR PLAN FOR CONTINUATION OF CW, HW LINES AND UNIT SHUT-OFF VALVE LOCATIONS.
4. 1/2" CW, HW LINES DOWN IN WALL TO BELOW FLOOR/SLAB.
5. 1/2" CW, HW LINES UP FROM BELOW FLOOR/SLAB TO KITCHEN SINK.
6. PROVIDE VALVED HW CONNECTION TO DISHWASHER.
7. 1/2" CW, HW LINES BELOW FLOOR/SLAB.
8. SHOWER CONTROLS FOR P60 SHALL BE LOCATED ON END WALL. FOR P61 LOCATED IN THE TYPE "A" ACCESSIBLE UNIT, THE SHOWER CONTROLS SHALL BE LOCATED ON THE BACK WALL IN ACCORDANCE WITH ADA REQUIREMENTS. COORDINATE COMPONENTS WITH ALL OTHER ITEMS IN SHOWER. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.

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ALLEN J. MCNUTT
NUMBER PE-2023009252
03/13/2026
PROFESSIONAL ENGINEER

BID SET

PROJECT TITLE

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ENGINEER	: AJM	APPROVED	: AJM

NO.	REVISION DESCRIPTION	DATE

DRAWING TITLE

ENLARGED UNIT PLANS - WATER

DATE: 03/13/2026

COMM. NO. 25116.00

DRAWING P4.1

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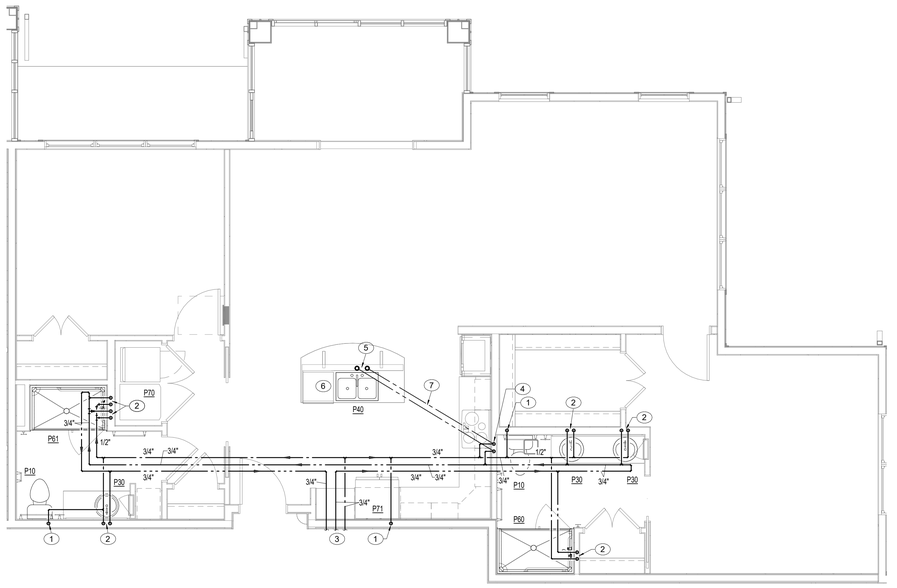
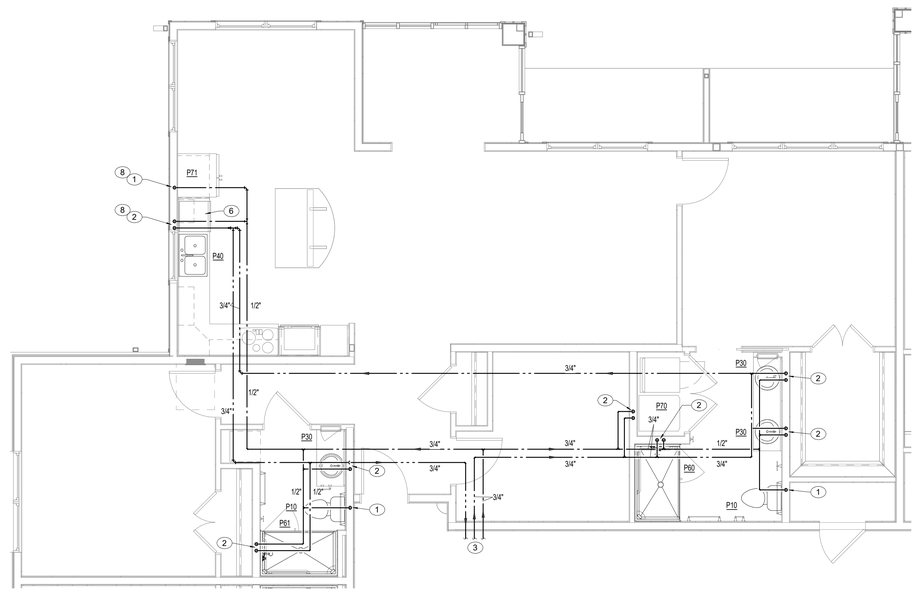


2 P4.2 UNIT H-2 - THE PLAZA

1/4" = 1'-0"



1 P4.2 UNIT H-1 - THE ROYAL

1/4" = 1'-0"

GENERAL NOTES

1. REFER TO FLOOR PLANS FOR ORIENTATION OF UNIT PLANS. UNIT PIPING MAY BE MIRRORED AND/OR OPPOSITE HAND BASED ON THE LOCATION AND CONFIGURATION OF THE UNIT IN THE BUILDING.
2. PIPING ROUTED IN JOIST SPACE AND THROUGH JOISTS SHALL BE INSTALLED AND LOCATED IN ACCORDANCE WITH JOIST MANUFACTURERS RECOMMENDATIONS. COORDINATE PIPE ROUTING WITH GENERAL CONTRACTOR PRIOR TO ROUGH-IN. PIPING SHOWN IS SCHEMATIC AND INDICATED FOR DESIGN INTENT.
3. ALL PIPE SIZES NOT INDICATED ON PIPING ON THIS SHEET SHALL BE 1/2" PIPE SIZE, UNLESS INDICATED OTHERWISE.

PLAN NOTES

1. 1/2" CW LINE DOWN TO FIXTURE AND CONNECT.
2. 1/2" CW, 1/2" HW LINES DOWN TO FIXTURE(S) AND CONNECT.
3. REFER TO FLOOR PLAN FOR CONTINUATION OF CW, HW LINES AND UNIT SHUT-OFF VALVE LOCATIONS.
4. 1/2" CW, HW LINES DOWN IN WALL TO BELOW FLOOR/SLAB.
5. 1/2" CW, HW LINES UP FROM BELOW FLOOR/SLAB TO KITCHEN SINK.
6. PROVIDE VALVED HW CONNECTION TO DISHWASHER.
7. 1/2" CW, HW LINES BELOW FLOOR/SLAB.
8. ROUTE WATER LINES ON BUILDING/WARM SIDE OF INSULATION.

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NUMBER PE-2023009252
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PROJECT TITLE

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NO.	REVISION DESCRIPTION	DATE

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ENLARGED UNIT PLANS - WATER

DATE: 03/13/2026

COMM. NO. 25116.00

DRAWING P4.2

3/13/2026 8:50:42 AM

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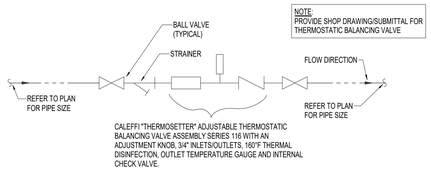
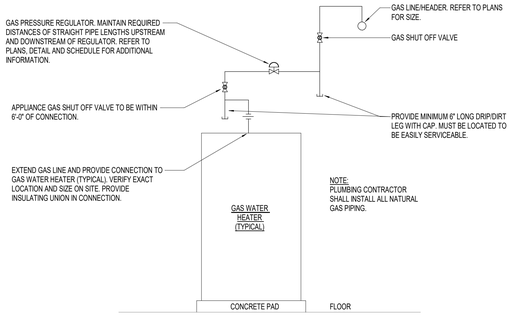


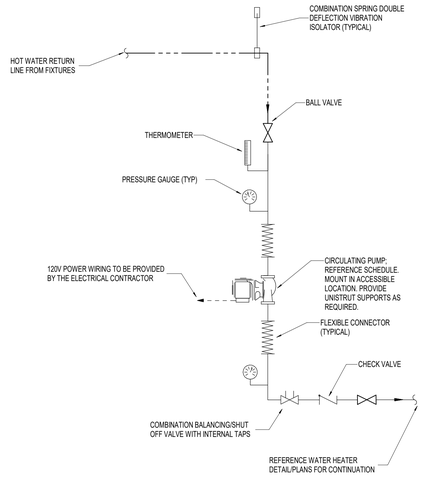
6 P4.3 HOT WATER RETURN THERMOSTATIC BALANCING VALVE PIPING DIAGRAM

N.T.S.



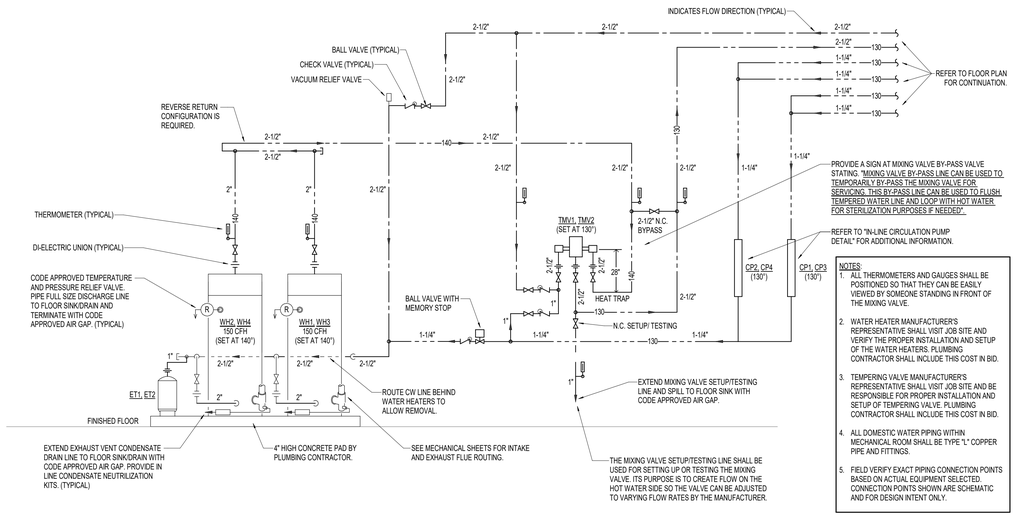
5 P4.3 GAS WATER HEATER CONNECTION DETAIL

N.T.S.



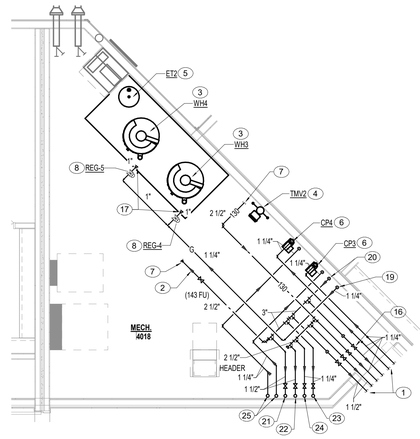
4 P4.3 IN-LINE CIRCULATION PUMP DETAIL

N.T.S.



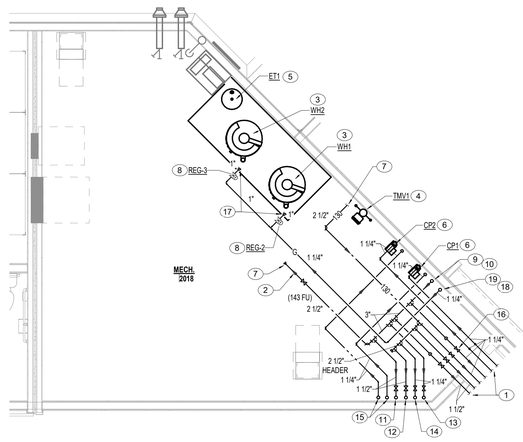
3 P4.3 TYPICAL WATER HEATER SYSTEM SCHEMATIC PIPING DIAGRAM - MECHANICAL ROOMS #2018 AND #4018

N.T.S.



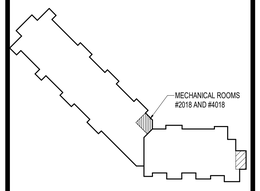
2 P4.3 ENLARGED PLAN OF MECH. ROOM #4018 - WATER AND GAS

1/4" = 1'-0"



1 P4.3 ENLARGED PLAN OF MECH. ROOM #2018 - WATER AND GAS

1/4" = 1'-0"



PLAN NOTES

1. REFER TO FLOOR PLANS FOR CONTINUATION OF LINES.
2. INDICATES FLOW DIRECTION IN PIPE (TYPICAL).
3. GAS FIRED WATER HEATER. REFER TO EQUIPMENT SCHEDULE SHEET P0.0 AND WATER HEATER SYSTEM SCHEMATIC PIPING DIAGRAM THIS SHEET FOR ADDITIONAL INFORMATION.
4. THERMOSTATIC MIXING VALVE ASSEMBLY MOUNTED ON WALL 5'-0" ABOVE FINISHED FLOOR TO CENTERLINE. REFER TO EQUIPMENT SCHEDULE SHEET P0.0 AND WATER HEATER SYSTEM SCHEMATIC PIPING DIAGRAM THIS SHEET FOR ADDITIONAL INFORMATION.
5. EXPANSION TANK. REFER TO EQUIPMENT SCHEDULE SHEET P0.0 AND WATER HEATER SYSTEM SCHEMATIC PIPING DIAGRAM THIS SHEET FOR ADDITIONAL INFORMATION.
6. HOT WATER RETURN CIRCULATING PUMP MOUNTED ON WALL 4'-0" ABOVE FINISHED FLOOR TO CENTERLINE. REFER TO EQUIPMENT SCHEDULE SHEET P0.0 AND IN-LINE CIRCULATION PUMP DETAIL SHEET P0.1 AND WATER HEATER SYSTEM SCHEMATIC PIPING DIAGRAM THIS SHEET FOR ADDITIONAL INFORMATION.
7. REFER TO WATER HEATER SYSTEM SCHEMATIC PIPING DIAGRAM THIS SHEET FOR CONTINUATION OF PIPING AND ADDITIONAL INFORMATION.
8. NATURAL GAS PRESSURE REGULATOR. REFER TO "GAS PRESSURE REGULATOR PIPING DIAGRAM AND SCHEDULE", SHEET P0.1 FOR ADDITIONAL INFORMATION.
9. 3" CW LINE DOWN TO GARAGE LEVEL.
10. 3" CW LINE UP TO FOURTH FLOOR MECHANICAL ROOM.
11. 1-1/2" CW LINE UP TO THIRD FLOOR.
12. 1-1/2" HW LINE UP TO THIRD FLOOR.
13. 1-1/4" CW LINE UP TO THIRD FLOOR.
14. 1-1/4" HW LINE UP TO THIRD FLOOR.
15. 1-1/4" HWR LINES UP TO THIRD FLOOR.
16. PROVIDE SHUT-OFF VALVES IN LINES IN AN ACCESSIBLE LOCATION (TYPICAL).
17. GAS LINE TO GAS FIRED WATER HEATER. REFER TO GAS WATER HEATER CONNECTION DETAIL THIS SHEET FOR ADDITIONAL INFORMATION.
18. 1-1/4" (2 PSI) GAS LINE UP TO FOURTH FLOOR MECHANICAL ROOM.
19. 1-1/4" (2 PSI) GAS LINE UP ON WALL FROM BELOW.
20. 3" CW LINE DOWN TO SECOND FLOOR.
21. 1-1/2" CW LINE UP TO FIFTH FLOOR.
22. 1-1/2" HW LINE UP TO FIFTH FLOOR.
23. 1-1/4" CW LINE UP TO FIFTH FLOOR.
24. 1-1/4" HW LINE UP TO FIFTH FLOOR.
25. 1-1/4" HWR LINES UP TO FIFTH FLOOR.

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NO.	REVISION DESCRIPTION	DATE

DRAWING TITLE

ENLARGED MECHANICAL ROOM PLAN - WATER AND GAS

DATE:	03/13/2026
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DRAWING	P4.3

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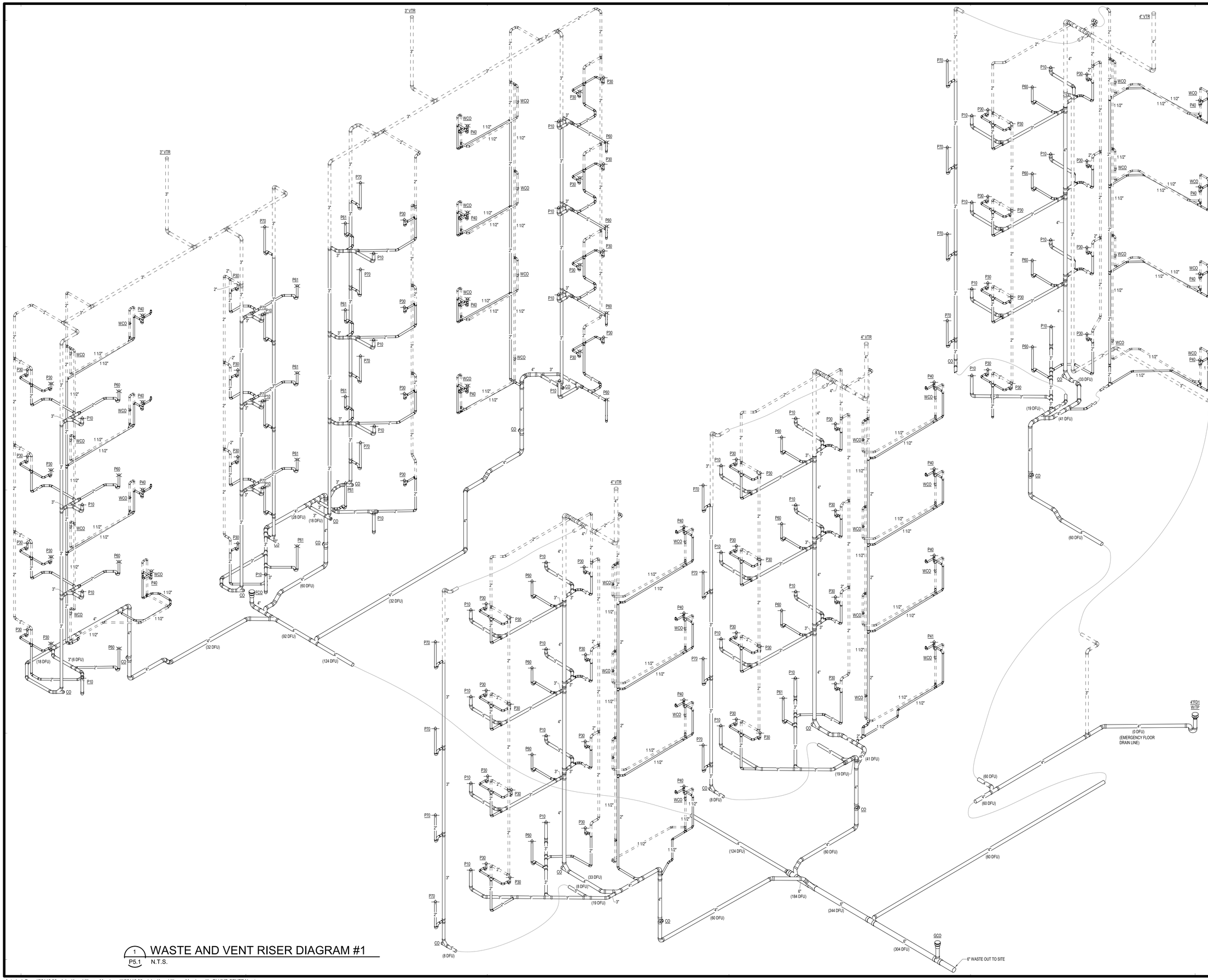

1 P5.1 WASTE AND VENT RISER DIAGRAM #1
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WASTE AND VENT RISER DIAGRAM

DATE: 03/13/2026
COMM. NO. 25116.00
DRAWING P5.1

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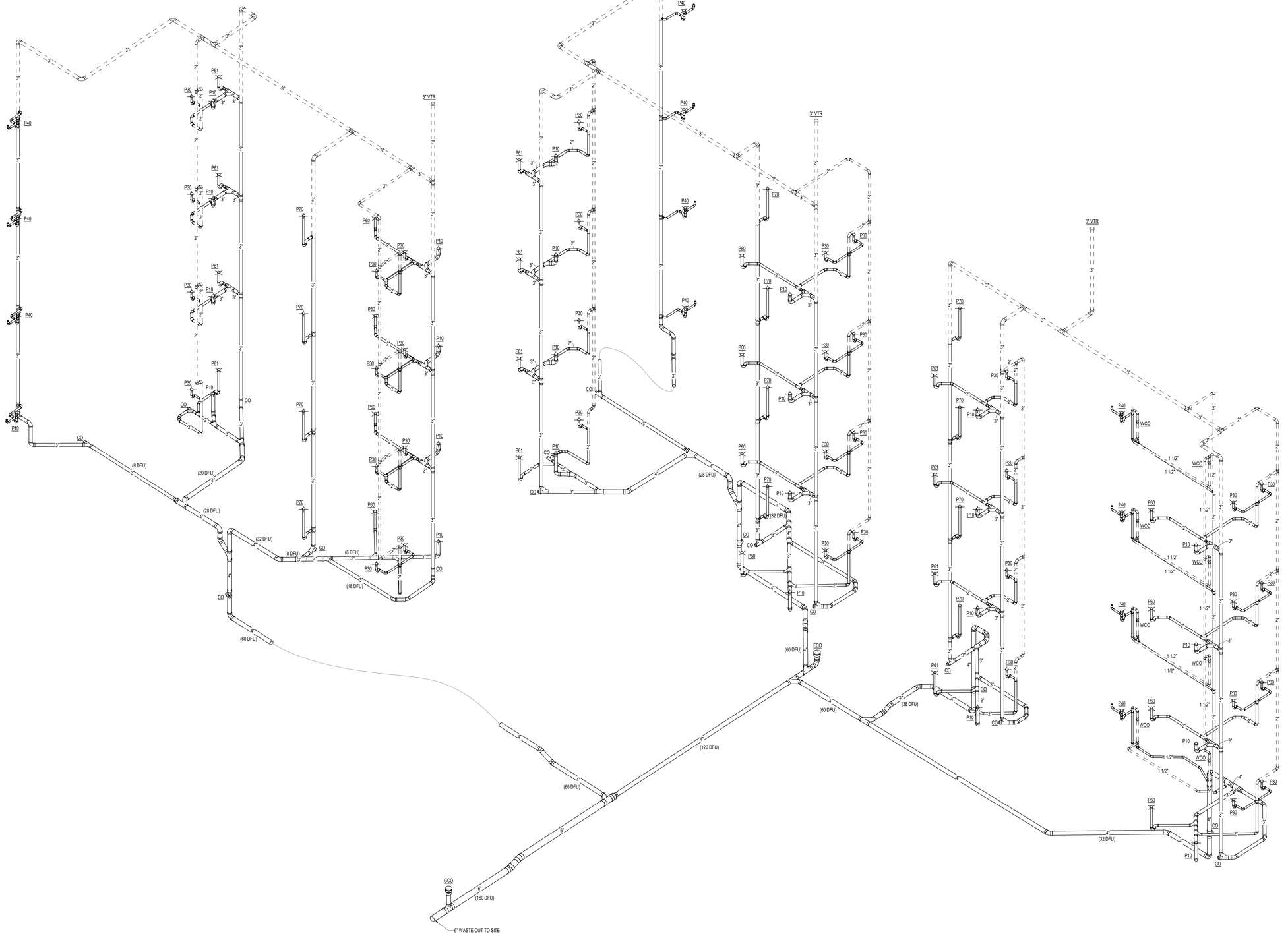

1 P5.2 WASTE AND VENT RISER DIAGRAM #2

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ENGINEER	AJM	APPROVED	AJM

NO.	REVISION DESCRIPTION	DATE

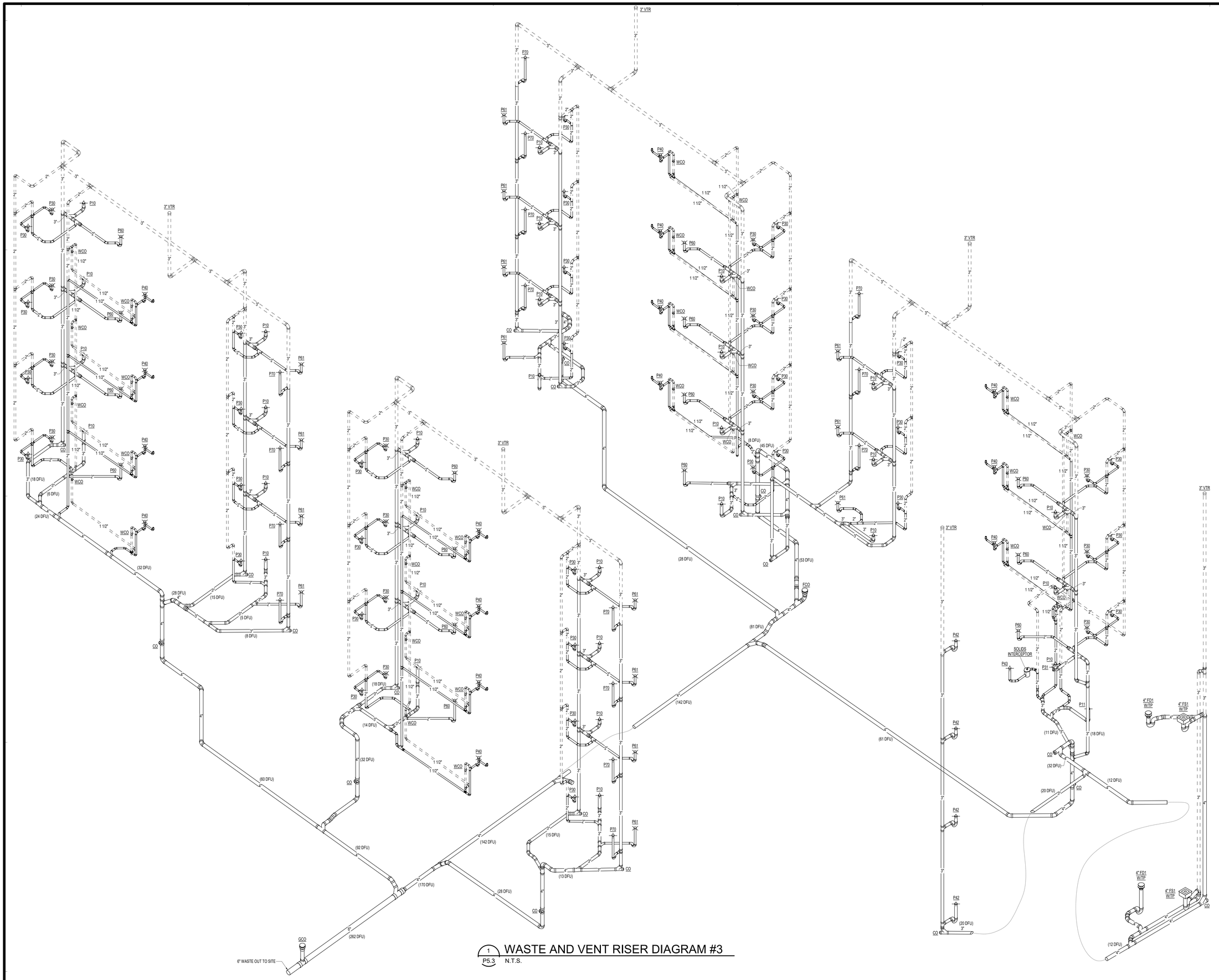
DRAWING TITLE

WASTE AND VENT RISER DIAGRAM

DATE: 03/13/2026

COMM. NO. 25116.00

DRAWING P5.2



1 P5.3 WASTE AND VENT RISER DIAGRAM #3
N.T.S.

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Roanoke, Virginia 24011-2003

ALLEN J. MCNUTT
NUMBER PE-2023009252
03/13/2026
PROFESSIONAL ENGINEER
STATE OF MISSOURI

BID SET

PROJECT TITLE

John Knox Village

MEADOWS BUILDING PHASE III

SFCS
Architecture
Engineering
Planning
Interiors

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DESIGNER : DAS	DRAWN : TWH / DPW / MAH
ARCHITECT : DAS	CHECKED : DPW / MAH / TWH
ENGINEER : AJM	APPROVED : AJM

NO.	REVISION DESCRIPTION	DATE

DRAWING TITLE

WASTE AND VENT RISER DIAGRAM

DATE: 03/13/2026

COMM. NO. 25116.00

DRAWING P5.3

3/13/2026
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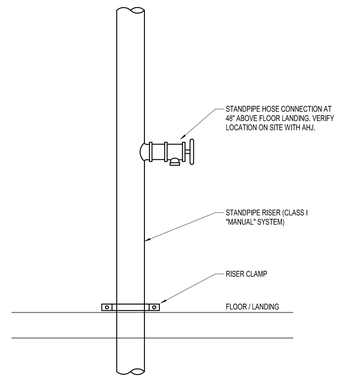
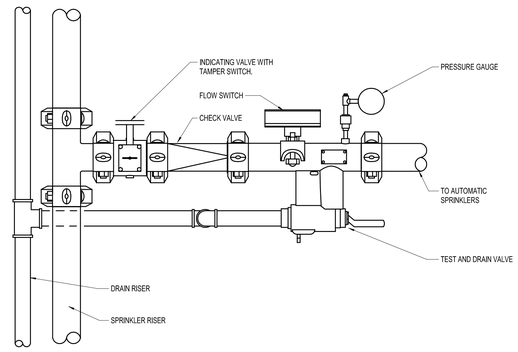
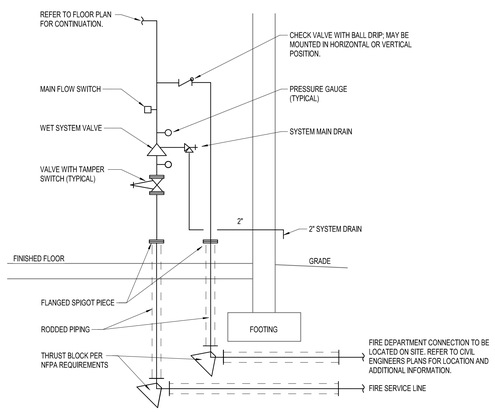


3 SP0.1 HOSE VALVE DETAIL
N.T.S.



2 SP0.1 FLOOR CONTROL STATION DETAIL
N.T.S.



1 SP0.1 FIRE SERVICE ENTRANCE DETAIL
N.T.S.

GENERAL FIRE SUPPRESSION NOTES

A. ALL PIPE SIZES INDICATED ON PLANS ARE MINIMUM PIPE SIZES. THE FIRE PROTECTION CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING ALL PIPE SIZES, PIPING CONFIGURATIONS, AND ETC. AS REQUIRED TO MEET SYSTEM HYDRAULIC CALCULATIONS, BUILDING CONDITIONS, ALL APPLICABLE NFPA STANDARDS AND BUILDING CODES/LOCAL ORDINANCES.

B. CONTRACTOR SHALL FURNISH AND INSTALL A COMPLETE FIRE PROTECTION SYSTEM TO PROVIDE COVERAGE FOR THE ENTIRE PREMISES. INCLUDE ALL PIPING AND ACCESSORIES PER THE REQUIREMENTS OF ALL APPLICABLE NFPA STANDARDS AND OWNER'S FIRE AND CASUALTY INSURER.

C. THE SPRINKLER SYSTEM SHALL BE INSTALLED ACCORDING TO ALL FEDERAL, STATE, LOCAL, AND NFPA STANDARDS. ANY WORK INDICATED ON PLANS THAT IS ABOVE AND BEYOND REGULATIONS SHALL BE INSTALLED AS INDICATED ON PLANS OR IN SPECS.

D. THE FIRE PROTECTION CONTRACTOR SHALL AVOID CONFLICT WITH DUCTWORK, LIGHTS, CONDUITS, PIPING, STRUCTURAL MEMBERS, AND ETC. AND REROUTE LINES AS REQUIRED.

E. SPRINKLER HEADS LOCATED IN LAY-IN CEILINGS SHALL BE LOCATED IN CENTER OF TILES, ONE DIRECTION AND NO CLOSER THAN 12" IN THE OTHER DIRECTION IN 2X4 TILES. SPRINKLER HEADS LOCATED IN DRYWALL CEILINGS SHALL BE LOCATED SYMMETRICALLY WITH OTHER ITEMS IN CEILING.

F. FIRE PROTECTION CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF ELECTRICAL PANELS, SWITCHES, MOTOR CONTROL CENTERS, AND ETC. LOCATE LINES AND HEADS AS REQUIRED TO AVOID HAVING THEM DIRECTLY ABOVE ANY ELECTRICAL EQUIPMENT.

G. THE FIRE PROTECTION CONTRACTOR SHALL CONSIDER ALL LOCATIONS OF LIGHTS, DIFFUSERS, RETURN GRILLES, SPRINKLER HEADS, AND ETC. TO BE APPROXIMATE LOCATIONS AND SHOULD BE VERIFIED ON SITE BEFORE ANY WORK IS BEGUN. REFER TO ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.

H. HANGERS AND SUPPORTS SHALL BE NFPA APPROVED FOR CONSTRUCTION USE. ALSO, SAME SHALL MEET NFPA AND PIPE MANUFACTURER'S REQUIREMENTS FOR INSTALLATION, LOCATIONS AND SPACING. WHERE REQUIRED.

I. PIPING PASSING THROUGH FIRE RATED SURFACES SHALL BE PROVIDED WITH SCHEDULE 40 CARBON STEEL SLEEVES FIRE-STOPPED WITH FIRE SEALANT APPROVED BY AUTHORITY HAVING JURISDICTION FOR ASSEMBLY BEING PENETRATED.

J. DRAINS, DRAIN VALVES, FLUSHING CONNECTIONS, TEST CONNECTIONS, GAUGES, GUARDS, SHIELDS, AND SIMILAR ITEMS NECESSARY TO COMPLY WITH APPLICABLE CODES AND NFPA STANDARDS SHALL BE FURNISHED AND INSTALLED.

K. WHERE REQUIRED BY LOCAL AND STATE CODES, CONTRACTOR SHALL FURNISH AND INSTALL DEFLECTOR SHIELD ON SPRINKLER HEADS ADJACENT TO ELECTRIC PANELS, TELEPHONE BOARDS AND ELECTRICAL EQUIPMENT.

L. PRIOR TO INSTALLATION, CONTRACTOR SHALL SUBMIT PRINTS OF FIRE PROTECTION DESIGN TO OWNERS FIRE AND CASUALTY INSURER FOR APPROVAL. CONTRACTOR SHALL OBTAIN ALL APPROVALS FROM APPLICABLE STATE AND LOCAL AUTHORITIES. CONTRACTOR SHALL ALSO SUBMIT FIRE PROTECTION DESIGN TO ARCHITECT AND ENGINEER FOR REVIEW.

M. ALL PIPING SHALL BE CONCEALED, WHERE APPLICABLE AND PITCHED FOR POSITIVE DRAINAGE.

N. SPRINKLER CONTRACTOR SHALL INCLUDE NECESSARY ARCHITECTURAL ACCESS DOORS WITH APPROPRIATE FIRE RATING AND SHALL MATCH ARCHITECTURAL FINISH WHERE NECESSARY FOR ACCESS TO VALVES, ETC. THESE ACCESS DOORS SHALL BE INDICATED ON SHOP DRAWINGS.

O. WHERE SIDEWALL SPRINKLER HEADS ARE INSTALLED THRU WALL/SOFFIT, CONTRACTOR SHALL INSTALL ESCUTCHEON PLATES FLUSH WITH WALL/SOFFIT.

P. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL FIRE RATED WALL AND CEILING INFORMATION.

Q. OVERHANGS AND CANOPIES SHALL BE PROVIDED WITH SPRINKLER COVERAGE WHERE REQUIRED BY NFPA STANDARDS, AND/OR ALL STATE AND LOCAL CODES.

R. ALL CEILING CAVITIES WITH COMBUSTIBLE CONSTRUCTION MATERIALS SHALL BE PROVIDED WITH SPRINKLER COVERAGE WHERE REQUIRED BY NFPA STANDARDS AND/OR ALL STATE AND LOCAL CODES.

S. REFER TO SPECIFICATIONS FOR HAZARD CLASSIFICATIONS FOR VARIOUS AREAS THROUGHOUT BUILDING.

T. PIPING AND EQUIPMENT HANGERS SHALL BE SPACED IN A SYSTEMATIC RANDOM PATTERN AS REQUIRED TO ELIMINATE OVERLOADING INDIVIDUAL STRUCTURAL MEMBERS. THE ESTIMATED WEIGHT ASSIGNED TO PIPE AND EQUIPMENT HANGERS SHALL BE DETERMINED BY THE FIRE PROTECTION CONTRACTOR AND SUBMITTED TO THE GENERAL CONTRACTOR FOR REVIEW, COORDINATION AND APPROVAL PRIOR TO INSTALLATION. THIS REQUIREMENT APPLIES TO ALL FIRE PROTECTION PIPING.

U. WHERE BACKFLOW PREVENTER IS REQUIRED, CONTRACTOR SHALL PROVIDE FORWARD FLOW TESTING PROVISION IN ACCORDANCE WITH NFPA REQUIREMENTS.

SPRINKLER HEAD SCHEDULE

TYPE	LOCATION
QUICK RESPONSE, CONCEALED TYPE SPRINKLER HEAD WITH WHITE COVER PLATE	PUBLIC AREAS WITH DRYWALL OR HARD CEILINGS
QUICK RESPONSE, SEMI-RECESSED PENDANT TYPE SPRINKLER HEAD WITH WHITE FINISH	CORRIDORS, LOBBY AND SIMILAR SPACES WITH SUSPENDED ACOUSTICAL TILE CEILINGS
QUICK RESPONSE, UPRIGHT TYPE SPRINKLER HEAD (MAY USE PENDANT WHERE APPLICABLE)	PARKING GARAGE, MECHANICAL ROOMS, STORAGE ROOMS AND SIMILAR SPACES WITHOUT CEILINGS

FLOW TEST INFORMATION

FLOW TEST PERFORMED BY: XXX
FLOW TEST PERFORMED ON: XX/XX/2022

STATIC PRESSURE: XX PSI
RESIDUAL PRESSURE: XX PSI
FLOW: XX GPM

FLOW TEST PENDING

FIRE SUPPRESSION PIPING MATERIALS

BELOW IS A LIST OF FIRE SUPPRESSION PIPING MATERIALS TO BE UTILIZED. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING PIPING MATERIAL STANDARDS COMPLIANCE, COMPONENTS AND INSTALLATION OF PIPING MATERIALS.

ALL STEEL SPRINKLER PIPING TO BE PROVIDED WITH A FACTORY APPLIED "MICROBIOLOGICALLY INFLUENCED CORROSION (MIC) RESISTANT COATING".

FIRE SUPPRESSION PIPING

ABOVEGROUND WET SYSTEM PIPING 2" AND SMALLER TO BE THE FOLLOWING:

- SCHEDULE 40 BLACK STEEL PIPING AND FITTINGS WITH THREADED JOINTS.
- CPVC SPRINKLER PIPING WITH SOCKET FITTINGS AND SOLVENT CEMENTED JOINTS.

ABOVEGROUND WET SYSTEM PIPING 2-1/2" AND LARGER TO BE THE FOLLOWING:

- SCHEDULE 10 BLACK STEEL PIPING WITH ROLL-GROOVED JOINTS AND FITTINGS.

NOTE:
INFORMATION INDICATED ON THESE DRAWINGS IS FOR DESIGN INTENT AND INFORMATION ONLY. THE DESIGN AND LAYOUT OF THE FIRE SUPPRESSION SYSTEM FOR THIS BUILDING IS A DELEGATED DESIGN TO BE PROVIDED BY A LICENSED FIRE SUPPRESSION CONTRACTOR. ALL TAMPER SWITCHES, FLOW SWITCHES, PRESSURE SWITCHES AND ELECTRICAL CONNECTIONS ASSOCIATED WITH THE SYSTEM ARE NOTED ON THESE DOCUMENTS TO ASSIST THE DELEGATED DESIGN FIRE SUPPRESSION AND FIRE ALARM CONTRACTORS IN PREPARING THEIR DOCUMENTS. FIRE SUPPRESSION CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE EXACT QUANTITIES AND LOCATIONS OF ALL POINTS TO BE MONITORED WITH FIRE ALARM CONTRACTOR.

NOTE:
FIRE SUPPRESSION SHOP DRAWINGS, PRODUCT DATA AND HYDRAULIC CALCULATIONS SHALL BE SUBMITTED AS ONE COMPLETE SUBMITTAL PACKAGE. INFORMATION INCLUDED IN SUBMITTAL SHALL BE PROJECT SPECIFIC AND CLEARLY IDENTIFIED.

FIRE SUPPRESSION SHEET LIST

SHEET NUMBER	SHEET NAME
SP0.1	FIRE SUPPRESSION INFORMATION
SP1.1	GARAGE FLOOR PLAN - FIRE SUPPRESSION
SP1.2	SECOND FLOOR PLAN - FIRE SUPPRESSION
SP1.3	THIRD FLOOR PLAN - FIRE SUPPRESSION
SP1.4	FOURTH FLOOR PLAN - FIRE SUPPRESSION
SP1.5	FIFTH FLOOR PLAN - FIRE SUPPRESSION

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DRAWING TITLE

FIRE SUPPRESSION INFORMATION

DATE: 03/13/2026
COMM. NO. 25116.00
DRAWING SP0.1

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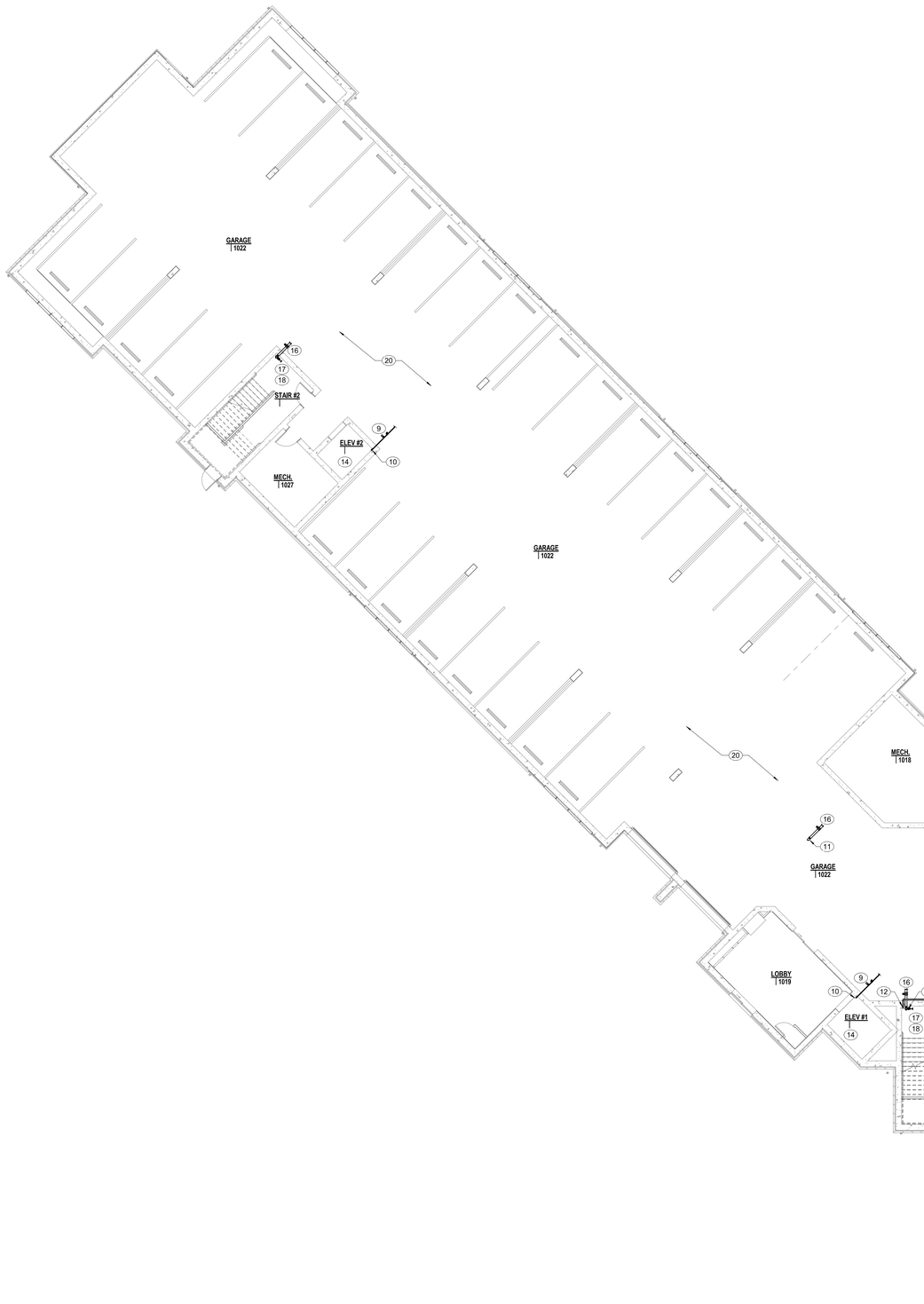
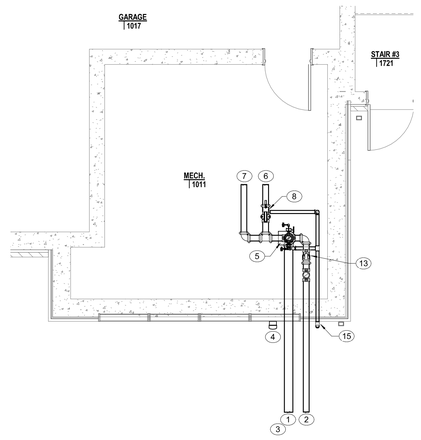
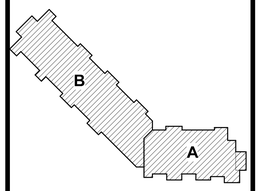


1 SP1.1 GARAGE FLOOR PLAN - FIRE SUPPRESSION
3/32" = 1'-0"



2 SP1.1 ENLARGED MECH ROOM PLAN- FIRE SUPPRESSION
1/4" = 1'-0"



PLAN NORTH

PLAN NOTES

1. FIRE SERVICE LINE OUT TO SITE 5'-0". REFER TO CIVIL ENGINEERS PLANS FOR CONTINUATION.
2. FIRE DEPARTMENT CONNECTION LINE OUT TO SITE. REFER TO CIVIL ENGINEERS PLANS FOR CONTINUATION. COORDINATE EXACT LOCATION, TYPE AND THREADS WITH LOCAL FIRE DEPARTMENT.
3. FIRE SERVICE BACKFLOW PREVENTER TO BE LOCATED ON SITE. REFER TO CIVIL ENGINEERS PLANS FOR CONTINUATION. COORDINATE EXACT LOCATION, TYPE
4. 120 VOLT ELECTRIC BELL/HORN/STROBE FOR SPRINKLER SYSTEM. MOUNT ON EXTERIOR WALL.
5. WET SYSTEM ALARM VALVE RISER WITH TAMPER SWITCH, FLOW SWITCH AND ALL REQUIRED ACCESSORIES PER NFPA REQUIREMENTS. SIZE OF WET SYSTEM TO BE CONFIRMED BASED ON HYDRAULIC CALCULATIONS.
6. TO WET SPRINKLER SYSTEM GARAGE.
7. TO WET SPRINKLER/STANDPIPES.
8. FLOOR CONTROL STATION WITH TAMPER AND FLOW SWITCH FOR GARAGE WET SYSTEM. REFER TO DETAIL, SHEET SP0.0 FOR ADDITIONAL INFORMATION. LOCATE IN AN ACCESSIBLE LOCATION.
9. PROVIDE VALVE WITH TAMPER SWITCH AND FLOW SWITCH IN AN ACCESSIBLE LOCATION ABOVE CEILING IN LINE TO SPRINKLER SERVING ELEVATOR PIT.
10. EXTEND SPRINKLER BRANCH LINE DOWN TO ELEVATOR PIT AND PROVIDE HORIZONTAL SIDEWALL SPRINKLER HEAD LOCATED NO MORE THAN 2'-0" ABOVE BOTTOM OF PIT.
11. 4" SPRINKLER/STANDPIPE RISER UP.
12. 2" DRAIN RISER UP.
13. PROVIDE CHECK VALVE WITH BALL DRIP IN AN ACCESSIBLE LOCATION.
14. PROVIDE COMPLETE COVERAGE OF ELEVATOR SHAFT PER NFPA 13 REQUIREMENTS.
15. ROUTE 2" DRAIN LINE FROM FLOOR CONTROL STATION AND RISER AND SPILL TO GRADE.
16. STANDPIPE CONTROL VALVE WITH TAMPER SWITCH.
17. PROVIDE STANDPIPES IN EXIT STAIRWELL IN ACCORDANCE WITH LOCAL CODES/AHJ. PROVIDE 2-1/2" FIRE DEPARTMENT CONNECTION HOSE VALVE WITH CAP AND CHAIN 48" ABOVE FLOOR. REFER TO DETAIL FOR ADDITIONAL INFORMATION. LOCATE STANDPIPE AND HOSE VALVE AS TIGHT TO CORNER AS POSSIBLE. MAINTAIN EGRESS CLEARANCE IN STAIRWELL. REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION. COORDINATE EXACT LOCATION ON SITE.
18. PROVIDE DRAIN AT LOW POINT OF STANDPIPE PIPING.
19. ROUTE 2" DRAIN LINE FROM DRAIN RISER/FLOOR CONTROL STATIONS AND SPILL TO GRADE.
20. PROVIDE WET SPRINKLER COVERAGE OF PARKING GARAGE IN ACCORDANCE WITH NFPA 13 REQUIREMENTS.

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ENGINEER	: AJM	APPROVED	: AJM

NO.	REVISION DESCRIPTION	DATE

DRAWING TITLE

GARAGE FLOOR PLAN - FIRE SUPPRESSION

DATE:	03/13/2026	DRAWING	SP1.1
COMM. NO.	25116.00		

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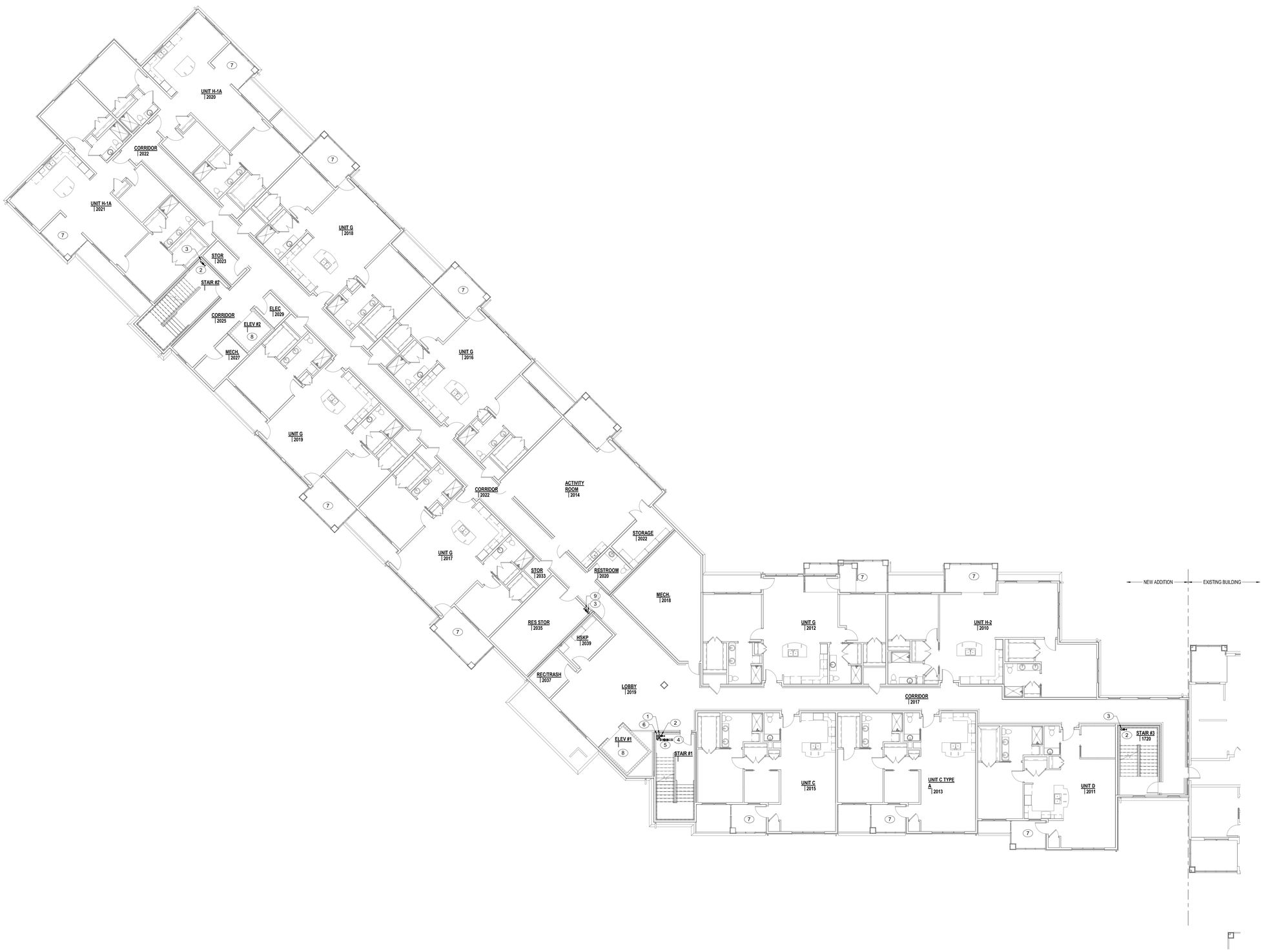
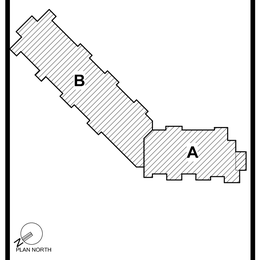


1 SP1.2 SECOND FLOOR PLAN - FIRE SUPPRESSION

3/32" = 1'-0"



PLAN NOTES

1. STANDPIPE/SPRINKER RISER UP AND DOWN.
2. 2-1/2" FIRE DEPARTMENT CONNECTION HOSE VALVE WITH CAP AND CHAIN. REFER TO DETAIL SHEET P0. FOR ADDITIONAL INFORMATION. LOCATE STANDPIPE AND HOSE VALVE AS TIGHT TO CORNER AS POSSIBLE. MAINTAIN EGRESS CLEARANCE IN STAIRWELL. REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION. COORDINATE EXACT LOCATION ON SITE.
3. STANDPIPE RISER UP AND DOWN.
4. TO WET SPRINKLER SYSTEM THIS FLOOR.
5. FLOOR CONTROL STATION WITH TAMPER AND FLOW SWITCH. REFER TO DETAIL SHEET SP1.0 FOR ADDITIONAL INFORMATION. LOCATE IN AN ACCESSIBLE LOCATION ABOVE LAY-IN CEILING.
6. 2" DRAIN RISER UP AND DOWN.
7. PROVIDE COVERAGE OF BALCONIES UTILIZING DRY SIDEWALL OR DRY FLEXIBLE PENDENT TYPE SPRINKLER HEAD ASSEMBLIES.
8. PROVIDE COMPLETE COVERAGE OF ELEVATOR SHAFT PER NFPA 13 REQUIREMENTS.
9. 2-1/2" FIRE DEPARTMENT CONNECTION HOSE VALVE WITH CAP AND CHAIN IN A RECESSED FIRE RATED CABINET EQUAL TO POTTER AND ROEMER MODEL NO. 1810-10. MOUNT VALVE 48" ABOVE FINISHED FLOOR TO CENTERLINE. VERIFY EXACT LOCATION OF STANDPIPE RISER, VALVE CABINET AND VALVE IN CHASE ON SITE WITH STRUCTURE.

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ENGINEER : AJM	APPROVED : AJM

NO.	REVISION DESCRIPTION	DATE

DRAWING TITLE

SECOND FLOOR PLAN - FIRE SUPPRESSION

DATE: 03/13/2026

COMM. NO. 25116.00

DRAWING SP1.2

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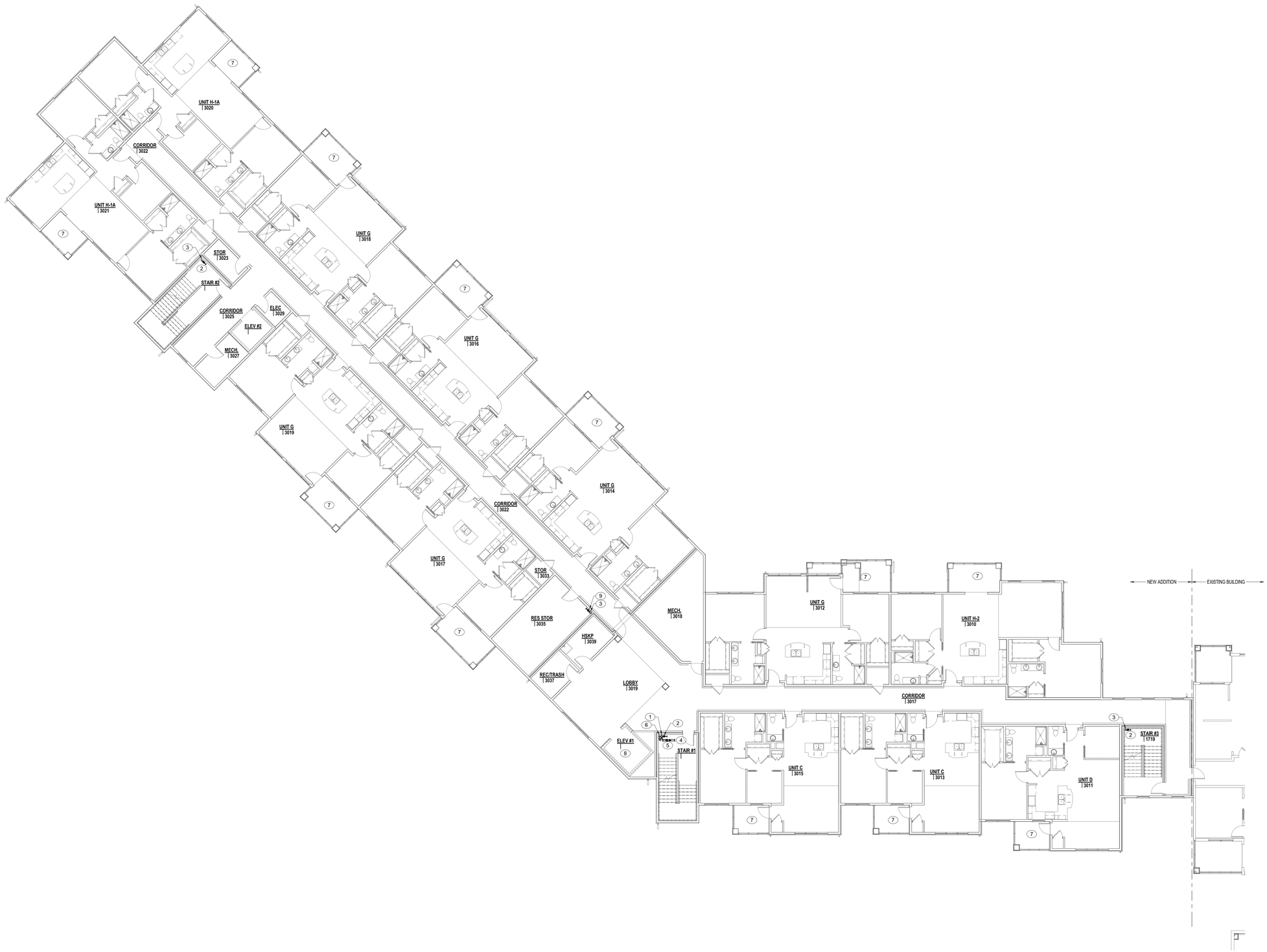
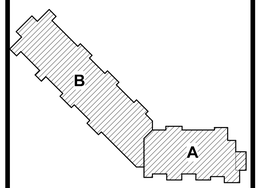


1 THIRD FLOOR PLAN - FIRE SUPPRESSION
SP1.3 3/32" = 1'-0"



PLAN NORTH

PLAN NOTES

1. STANDPIPE/SPRINKER RISER UP AND DOWN.
2. 2-1/2" FIRE DEPARTMENT CONNECTION HOSE VALVE WITH CAP AND CHAIN. REFER TO DETAIL SHEET P0. FOR ADDITIONAL INFORMATION. LOCATE STANDIPPE AND HOSE VALVE AS TIGHT TO CORNER AS POSSIBLE. MAINTAIN EGRESS CLEARANCE IN STAIRWELL. REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION.. COORDINATE EXACT LOCATION ON SITE.
3. STANDPIPE RISER UP AND DOWN.
4. TO WET SPRINKLER SYSTEM THIS FLOOR.
5. FLOOR CONTROL STATION WITH TAMPER AND FLOW SWITCH. REFER TO DETAIL SHEET SP0.0 FOR ADDITIONAL INFORMATION. LOCATE IN AN ACCESSIBLE LOCATION ABOVE LAY-IN CEILING.
6. 2" DRAIN RISER UP AND DOWN.
7. PROVIDE COVERAGE OF BALCONIES UTILIZING DRY SIDEWALL OR DRY FLEXIBLE PENDENT TYPE SPRINKLER HEAD ASSEMBLIES.
8. PROVIDE COMPLETE COVERAGE OF ELEVATOR SHAFT PER NFPA 13 REQUIREMENTS.
9. 2-1/2" FIRE DEPARTMENT CONNECTION HOSE VALVE WITH CAP AND CHAIN IN A RECESSED FIRE RATED CABINET EQUAL TO POTTER AND ROEMER MODEL NO. 1810-10. MOUNT VALVE 48" ABOVE FINISHED FLOOR TO CENTERLINE. VERIFY EXACT LOCATION OF STANDPIPE RISER, VALVE CABINET AND VALVE IN CHASE ON SITE WITH STRUCTURE.

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NO.	REVISION DESCRIPTION	DATE

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THIRD FLOOR PLAN - FIRE SUPPRESSION

DATE: 03/13/2026
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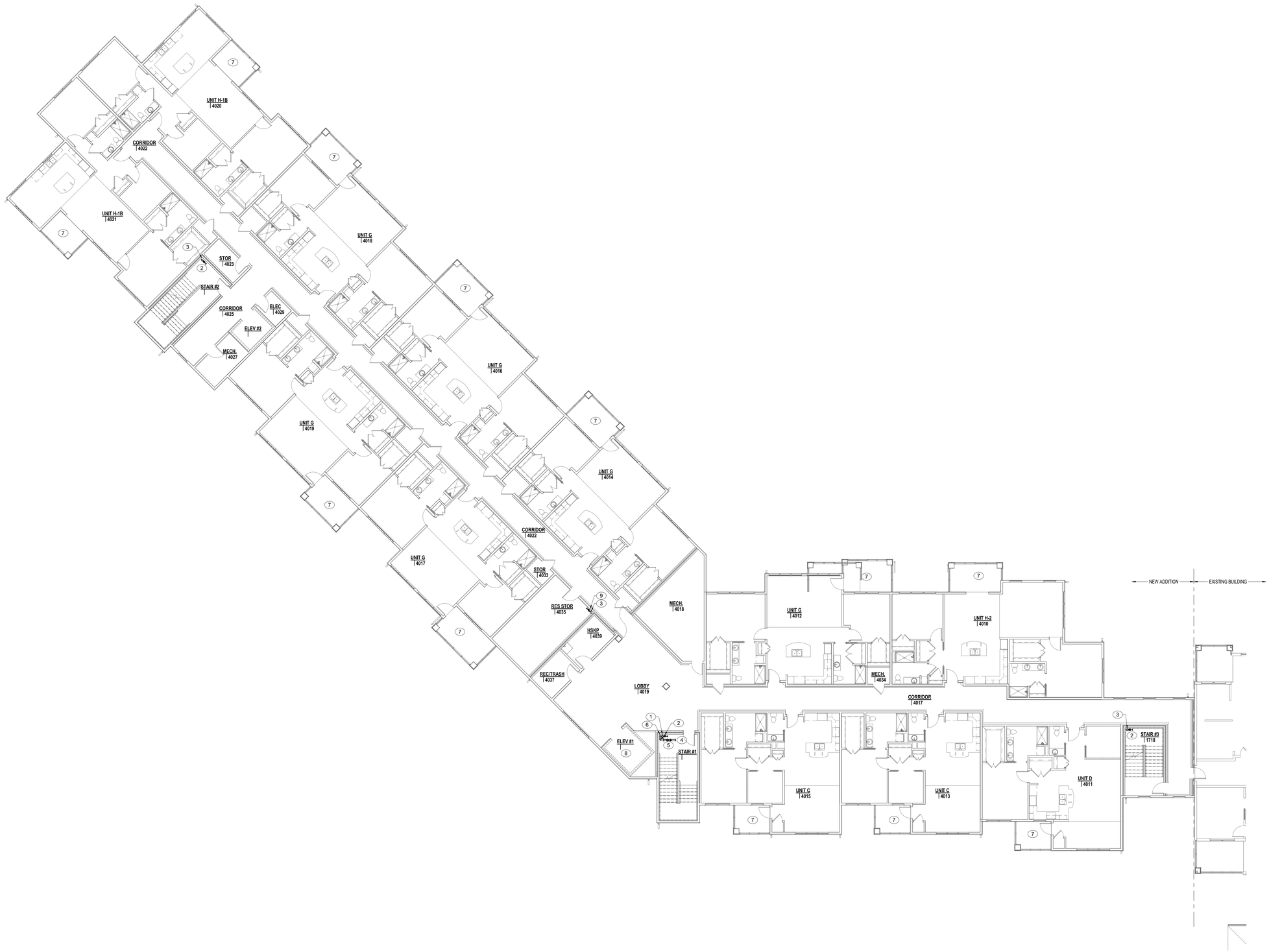
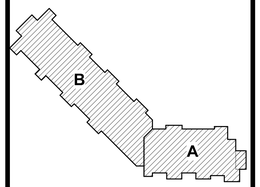


1 SP1.4 FOURTH FLOOR PLAN - FIRE SUPPRESSION
3/32" = 1'-0"



PLAN NORTH

PLAN NOTES

1. STANDPIPE/SPRINKER RISER UP AND DOWN.
2. 2-1/2" FIRE DEPARTMENT CONNECTION HOSE VALVE WITH CAP AND CHAIN. REFER TO DETAIL SHEET P0. FOR ADDITIONAL INFORMATION. LOCATE STANDIPPE AND HOSE VALVE AS TIGHT TO CORNER AS POSSIBLE. MAINTAIN EGRESS CLEARANCE IN STAIRWELL. REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION.. COORDINATE EXACT LOCATION ON SITE.
3. STANDPIPE RISER UP AND DOWN.
4. TO WET SPRINKLER SYSTEM THIS FLOOR.
5. FLOOR CONTROL STATION WITH TAMPER AND FLOW SWITCH. REFER TO DETAIL SHEET SP0.0 FOR ADDITIONAL INFORMATION. LOCATE IN AN ACCESSIBLE LOCATION ABOVE LAY-IN CEILING.
6. 2" DRAIN RISER UP AND DOWN.
7. PROVIDE COVERAGE OF BALCONIES UTILIZING DRY SIDEWALL OR DRY FLEXIBLE PENDENT TYPE SPRINKLER HEAD ASSEMBLIES.
8. PROVIDE COMPLETE COVERAGE OF ELEVATOR SHAFT PER NFPA 13 REQUIREMENTS.
9. 2-1/2" FIRE DEPARTMENT CONNECTION HOSE VALVE WITH CAP AND CHAIN IN A RECESSED FIRE RATED CABINET EQUAL TO POTTER AND ROEMER MODEL NO. 1810-10. MOUNT VALVE 48" ABOVE FINISHED FLOOR TO CENTERLINE. VERIFY EXACT LOCATION OF STANDPIPE RISER, VALVE CABINET AND VALVE IN CHASE ON SITE WITH STRUCTURE.

STATE OF MISSOURI
ALLEN J. MCNUTT
NUMBER PE-2023009252
PROFESSIONAL ENGINEER
09/13/2026
BID SET

PROJECT TITLE

John Knox Village

MEADOWS BUILDING PHASE III

SFCS Architecture Engineering Planning Interiors
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Roanoke, Virginia 24011.2003
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NO.	REVISION DESCRIPTION	DATE

DRAWING TITLE

FOURTH FLOOR PLAN - FIRE SUPPRESSION

DATE: 03/13/2026
COMM. NO. 25116.00
DRAWING SP1.4

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Roanoke, Virginia 24011.2003

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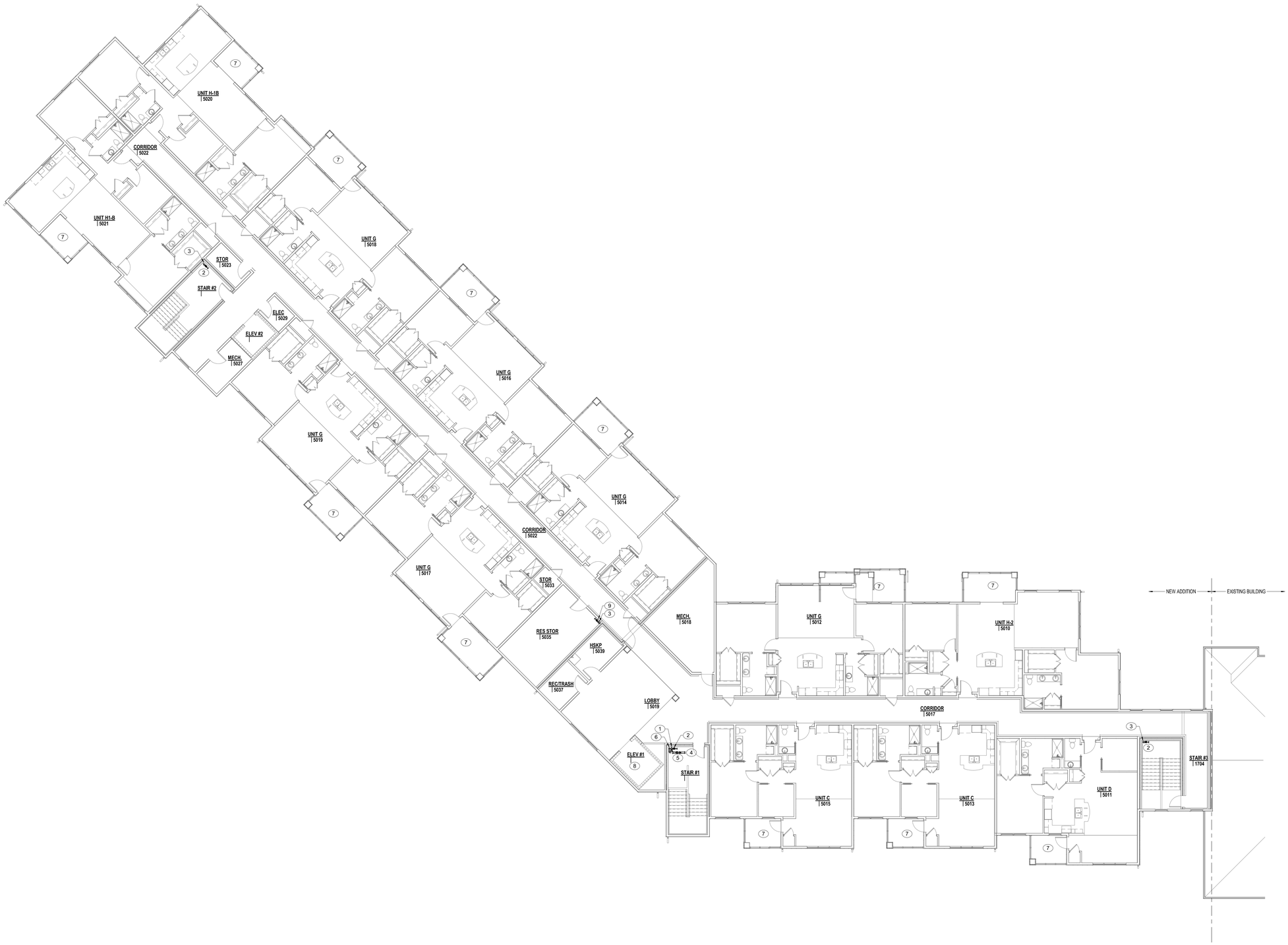
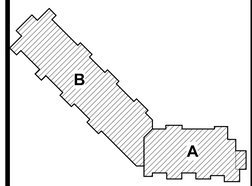


1 SP1.5 FIFTH FLOOR PLAN - FIRE SUPPRESSION
3/32" = 1'-0"



PLAN NORTH

PLAN NOTES

1. STANDPIPE/SPRINKER RISER UP AND DOWN.
2. 2-1/2" FIRE DEPARTMENT CONNECTION HOSE VALVE WITH CAP AND CHAIN. REFER TO DETAIL SHEET P0. FOR ADDITIONAL INFORMATION. LOCATE STANDPIPE AND HOSE VALVE AS TIGHT TO CORNER AS POSSIBLE. MAINTAIN EGRESS CLEARANCE IN STAIRWELL. REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION. COORDINATE EXACT LOCATION ON SITE.
3. STANDPIPE RISER UP AND DOWN.
4. TO WET SPRINKLER SYSTEM THIS FLOOR.
5. FLOOR CONTROL STATION WITH TAMPER AND FLOW SWITCH. REFER TO DETAIL SHEET SP0.0 FOR ADDITIONAL INFORMATION. LOCATE IN AN ACCESSIBLE LOCATION ABOVE LAY-IN CEILING.
6. 2" DRAIN RISER UP AND DOWN.
7. PROVIDE COVERAGE OF BALCONIES UTILIZING DRY SIDEWALL OR DRY FLEXIBLE PENDENT TYPE SPRINKLER HEAD ASSEMBLIES.
8. PROVIDE COMPLETE COVERAGE OF ELEVATOR SHAFT PER NFPA 13 REQUIREMENTS.
9. 2-1/2" FIRE DEPARTMENT CONNECTION HOSE VALVE WITH CAP AND CHAIN IN A RECESSED FIRE RATED CABINET EQUAL TO POTTER AND ROEMER MODEL NO. 1810-10. MOUNT VALVE 48" ABOVE FINISHED FLOOR TO CENTERLINE. VERIFY EXACT LOCATION OF STANDPIPE RISER, VALVE CABINET AND VALVE IN CHASE ON SITE WITH STRUCTURE.

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FIFTH FLOOR PLAN - FIRE SUPPRESSION

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ELECTRICAL SYMBOL LEGEND (NOTE 1)

FIRE ALARM

MTG. HGT. (NOTE 2)	SYMBOL (NOTES 3 & 4)	DESCRIPTION
	S	SMOKE DETECTOR, CEILING. "CO" = COMBINATION CARBON MONOXIDE DETECTOR "SB" = SOUNDER BASE, LOW FREQUENCY TYPE, UON "D" = SMOKE DETECTOR, DUCT TYPE. SEE MECHANICAL DRAWINGS FOR EXACT LOCATION (NOTE 7). "S" = SINGLE STATION TYPE "LF" = LOW FREQUENCY
6'-8"	S	SMOKE DETECTOR, WALL. (NOTE 7) "CO" = COMBINATION CARBON MONOXIDE DETECTOR "SB" = SOUNDER BASE TYPE "D" = SMOKE DETECTOR, DUCT TYPE. SEE MECHANICAL DRAWINGS FOR EXACT LOCATION (NOTE 7). "S" = SINGLE STATION TYPE (NOTE 7) "LF" = LOW FREQUENCY
	H	HEAT DETECTOR, CEILING.
6'-8"	H	HEAT DETECTOR, WALL. (NOTE 7)
	F	FLAME DETECTOR, CEILING.
4'-0"	F	FIRE ALARM MANUAL PULL STATION.
5'-6"	F	FIRE ALARM FIRE FIGHTER TWO-WAY COMMUNICATION OUTLET JACK WALL UNIT.
	S	FIRE ALARM SPEAKER WITH INTEGRAL VISUAL DEVICE.
NOTE 7	F 15	FIRE ALARM HORN OR SPEAKER WITH INTEGRAL VISUAL DEVICE. NUMBER INDICATES CANDELA RATING OF VISUAL DEVICE. "LF" = LOW FREQUENCY TYPE "S" = DIGITAL SPEAKER TYPE
NOTE 7	F	FIRE ALARM BELL.
NOTE 7	F 15	FIRE ALARM VISUAL DEVICE. NUMBER INDICATES CANDELA RATING OF VISUAL DEVICE.
NOTE 7	F	FIRE ALARM CHIME.
	F	FIRE ALARM HORN OR SPEAKER WITH INTEGRAL VISUAL DEVICE. CEILING MOUNT.
	F	FIRE ALARM VISUAL DEVICE. CEILING MOUNT.
	S	FIRE ALARM SPEAKER FOR AUDIBLE TONE. CEILING/PENDANT MOUNT.
	S	FIRE ALARM SPEAKER/STROBE. CEILING/PENDANT MOUNT.
	AOM	ADDRESSABLE OUTPUT MODULE.
	IAM	INDIVIDUAL ADDRESSABLE MONITOR MODULE.
	IM	SIGNALING LINE CIRCUIT ISOLATION MODULE.
7'-4"		SMOKE, HEAT OR FLAME DETECTOR REMOTE ALARM LIGHT, WALL.
		SMOKE, HEAT OR FLAME DETECTOR REMOTE ALARM LIGHT, CEILING.
	FS OR W	SPRINKLER SYSTEM WATER FLOW DETECTOR SWITCH. (NOTE 7)
	PS OR X	SPRINKLER SYSTEM PRESSURE SWITCH. (NOTE 7)
	TS OR Y	SPRINKLER SYSTEM VALVE SUPERVISORY SWITCH. (NOTE 7)
5'-0"	FAA	FIRE ALARM ANNUNCIATOR PANEL
6'-0"	FACP	FIRE ALARM CONTROL PANEL
6'-0"	D	MAGNETIC DOOR HOLDER
	NAC	FIRE ALARM NOTIFICATION APPL. CKT PANEL
5'-0"	FAMP	FIRE ALARM AUDIO AMPLIFIER
5'-0"	FAPS	FIRE ALARM POWER SUPPLY

LIGHTING

MTG. HGT. (NOTE 2)	SYMBOL (NOTES 3 & 4)	DESCRIPTION
	OR	CEILING MOUNTED RECESSED LUMINAIRE. (NOTE 6)
		CEILING SURFACE MOUNTED LUMINAIRE. (NOTE 6)
		WALL MOUNTED LUMINAIRE. (NOTE 6)
		CEILING MOUNTED LUMINAIRE. (NOTE 6)
		CEILING MOUNTED LUMINAIRE, SINGLE WALL-WASHER TYPE. POINTED SIDE INDICATES DIRECTION OF MAXIMUM LIGHT DISTRIBUTION.
		CEILING MOUNTED LUMINAIRE, DOUBLE WALL-WASHER TYPE. POINTED SIDES INDICATE DIRECTION OF MAXIMUM LIGHT DISTRIBUTION.
		SURFACE OR PENDANT CEILING MOUNTED LUMINAIRE. (NOTE 6)
	OR	WALL MOUNTED LUMINAIRE. (NOTE 6)
		FAN, CEILING MOUNTED WITH LUMINAIRE ACCESSORY.
	H	CEILING MOUNTED RECESSED HEAT UNIT. "H" = INFRARED HEAT LAMP.
	H	CEILING MOUNTED RECESSED COMBINATION UNIT. "H" = INFRARED HEAT LAMP.
(12)		LIGHT TRACK. "△" INDICATES QUANTITY OF FIXTURES PER TRACK. NUMBER INDICATES NOMINAL LENGTH IN FEET.
		POST ARM MOUNTED LIGHTING FIXTURE. LUMINAIRE(S) SHOWN FOR QUANTITY AND ORIENTATION. (NOTE 5)
		POST TOP MOUNTED LIGHTING FIXTURE. (NOTE 5)
		LANDSCAPE LIGHTING FIXTURE, GROUND MOUNTED. (NOTE 5)
		LANDSCAPE LIGHTING FIXTURE, FLUSH IN-GROUND. (NOTE 5)
		CEILING MOUNTED EXIT SIGN. SHADED QUADRANT(S) INDICATES FACE(S). PROVIDE ARROWS AS INDICATED ON DRAWINGS. LUMINAIRE TYPE "X1", UNO.
		WALL MOUNTED EXIT SIGN. SHADED QUADRANT(S) INDICATES FACE(S). PROVIDE ARROWS AS INDICATED ON DRAWINGS. LUMINAIRE TYPE "X1", UNO.
		SELF-CONTAINED EMERGENCY LIGHTING UNIT, WALL.
3'-10"	$a	GENERAL USE SWITCH, SINGLE POLE. LOWER CASE ALPHABETIC SUBSCRIPT,WHERE SHOWN, INDICATES LOADS CONTROLLED. (TYP FOR ALL SWITCHES.)
3'-10"	$$	TWO SINGLE-POLE SWITCHES IN A 2-GANG BOX. EACH SWITCH TO CONTROL A SEPARATE BALLAST IN A LUMINAIRE, REFER TOLUMINAIRE SCHEDULE AND/OR DRAWINGS.
3'-10"	$2	GENERAL USE SWITCH, DOUBLE POLE.
3'-10"	$3	GENERAL USE SWITCH, THREE WAY.
3'-10"	$$3	ONE 3-WAY SWITCH AND ONE SINGLE-POLE SWITCH IN A 2-GANG BOX. EACH SWITCH TO CONTROL A SEPARATE BALLAST IN A LUMINAIRE. REFER TO LUMINAIRE SCHEDULE AND/OR DRAWINGS.
3'-10"	3 $$3	TWO 3-WAY SWITCHES IN A 2-GANG BOX. EACH SWITCH TO CONTROL A SEPARATE BALLAST IN A LUMINAIRE, REFER TO LUMINAIRE SCHEDULE AND/OR DRAWINGS.
3'-10"	$4	GENERAL USE SWITCH, FOUR WAY.
3'-10"	$P	GENERAL USE SWITCH, PILOT LIGHT TYPE. PILOT LIGHT IS "ON" WHEN SWITCH IS "ON".
3'-10"	$K	GENERAL USE SWITCH, KEY OPERATED.
3'-10"	$T	TIMER SWITCH, WALL-BOX MOUNTED.
3'-10"	$LC	LIGHTING CONTROL STATION SWITCH, WALL-BOX MOUNTED.
3'-10"	$F	FAN/LIGHT CONTROL SWITCH, FOUR POSITION FOR SEPERATE CONTROL OF FAN AND FAN LIGHT KIT. SWITCH FURNISHED WITH FAN BY FAN MANUFACTURER.
3'-10"		OCCUPANCY SENSOR SWITCH, WALL MOUNTED. DUAL TECHNOLOGY TYPE UNLESS INDICATED OTHERWISE. SUBSCRIPT : "R" = INFRARED TYPE. "U" =ULTRASONIC TYPE. "2" = 2-POLE DUAL RELAYS; "D" = DIMMER LOWERCASE ALPHABETIC SUBSCRIPT, WHERE SHOWN, INDICATES LOADS CONTROLLED. SET TIME DELAY TO AUTOMATIC UNLESS INDICATED OTHERWISE. SET TO MANUAL ON/ AUTO-OFF OPERATION UNLESS INDICATED OTHERWISE.
	OS VS	OCCUPANCY/VACANCY SENSOR SWITCH, CEILING MOUNTED. DUAL TECHNOLOGY TYPE UNLESS INDICATED OTHERWISE. SUBSCRIPT : "R" = INFRARED TYPE. "U" =ULTRASONIC TYPE. "2" = 2-POLE DUAL RELAYS; LOWERCASE ALPHABETIC SUBSCRIPT, WHERE SHOWN, INDICATES LOADS CONTROLLED. SET TIME DELAY TO AUTOMATIC UNLESS INDICATED OTHERWISE. SET TO MANUAL ON/ AUTO-OFF OPERATION UNLESS INDICATED OTHERWISE.
3'-10"	D	DIMMER SWITCH, COMPATIBLE WITH LOAD TYPE. SUBSCRIPT : "3" = THREE-WAY
	R	UL 924 LISTED EMERGENCY TRANSFER RELAY DEVICE CAPABLE OF SENSING AND SWITCHING FROM NORMAL TO EMERGENCY POWER UPON LOSS.
	PP	CEILING MOUNTED OCCUPANCY SENSOR POWER PACK. SENSOR SWITCH PP-20, WATT STOPPER #BZ-100 OR EQUAL.

GENERAL

MTG. HGT. (NOTE 2)	SYMBOL (NOTES 3 & 4)	DESCRIPTION
	1	PLAN NOTE DESIGNATION.
	1	KITCHEN EQUIPMENT DESIGNATION.
	1	LUMINAIRE TYPE DESIGNATION.

POWER

MTG. HGT. (NOTE 2)	SYMBOL (NOTES 3 & 4)	DESCRIPTION
1'-6"		DECORATOR DUPLEX RECEPTACLE, WALL MOUNTED. ALPHA-NUMERIC OR NUMERIC SUBSCRIPT INDICATES PANELBOARD CIRCUIT. (TYPICAL FOR ALL RECEPTACLES). "GF" = GROUND FAULT DECORATOR RECEPTACLE. "WP" = WEATHERPROOF WHILE-IN-USE DEVICE, DECORATOR RECEPTACLE MOUNTED IN (NEMA-3R) WALLPLATE. "HG" = HOSPITAL GRADE. "C" = MOUNT RECEPTACLE 44"AFF TO CENTER OF BOX OR BOTTOM 0"-1" ABOVE BACKSPLASH/COUNTER. "H" = MOUNT RECEPTACLE HORIZONTALLY (ALL RECEPTACLE SHALL BE MOUNTED VERTICALLY UNLESS NOTED BY AN "H"). "U" = USB DEVICE. (EQUAL TO LEGRAND #TR20USBACW) "T" = TAMPER RESISTANT DEVICE. "M" = PROVIDE A MIRRORED COVERPLATE FOR RECEPTACLE MOUNTED IN MIRRORS. "AF" = ARC FAULT CIRCUIT INTERRUPTER DEVICE "E" = INDICATES EMERGENCY DEVICE IF DEVICE NOT SHADED.
		WALL MOUNTED DECORATOR DUPLEX RECEPTACLE. MOUNT AT 44" AFF TO CENTER OF BOX OR BOTTOM AT 1" ABOVE BACKSPLASH OR COUNTER TOP.
1'-6"		WALL MOUNTED DECORATOR DUPLEX RECEPTACLE. GROUND FAULT DEVICE.
		WALL MOUNTED DECORATOR DUPLEX RECEPTACLE. GROUND FAULT DEVICE. WALL MOUNTED DECORATOR DUPLEX RECEPTACLE. MOUNT AT 44" AFF TO CENTER OF BOX OR BOTTOM AT 1" ABOVE BACKSPLASH OR COUNTER TOP.
		SHADED DEVICE SYMBOL INDICATES EMERGENCY.(TYPICAL FOR ALL RECEPTACLES)
		DUPLEX RECEPTACLE, FLOOR.
		DUPLEX RECEPTACLE AND TELEPHONE OR DATA OUTLET IN A TWO-COMPARTMENT FLUSH FLOOR BOX.
	C	DUPLEX RECEPTACLE, CEILING.
0'-6"		DUPLEX RECEPTACLE IN A CAST "FS" BOX MOUNTED ON (2) RIGID CONDUITS FROM FLOOR.
1'-6"		SPLIT WIRED TAMPER-RESISTANT DECORATOR DUPLEX RECEPTACLE, WALL MOUNTED. BOTTOM PLUG SHALL BE WIRED THRU A SWITCH. TOP PLUG IS NOT SWITCHED.
1'-6"		TWO DUPLEX RECEPTACLES IN A TWO GANG OUTLET BOX, WALL.PROVIDE BARRIER BETWEEN RECEPTACLES UNLESS CONNECTED TO SAME BRANCH CIRCUIT.
		TWO DUPLEX RECEPTACLES IN A TWO GANG OUTLET BOX, FLOOR.
	C	TWO DUPLEX RECEPTACLES IN A TWO GANG OUTLET BOX, CEILING.
1'-6"		GENERAL RECEPTACLE, WALL.
		SINGLE RECEPTACLE, FLOOR.
	C	SINGLE RECEPTACLE, CEILING.
1'-6"	OR	SPECIAL PURPOSE RECEPTACLE, WALL. "D" = DRYER (NEMA 14-30R), "R" = RANGE (NEMA 14-50R), UNO.
		SPECIAL PURPOSE RECEPTACLE (TYPE AS NOTED), FLOOR.
	C	SPECIAL PURPOSE RECEPTACLE (TYPE AS NOTED), CEILING.
1'-6"	J	JUNCTION BOX, WALL.
	J	JUNCTION BOX, FLOOR.
	J C	JUNCTION BOX, CEILING.
		DIRECT CONNECTION TO EQUIPMENT.
		GROUND CONNECTION.
	GR	GROUND ROD
	OR HP	ELECTRIC MOTOR CONNECTION.
	$M	MOTOR RATED SWITCH.
3'-10"	P	POWERED DOOR OPERATOR, WALL.
1'-6" UON	TV	RECESSED WALL MOUNTED COMBINATION RECEPTACLE, DATA & TV OUTLETS IN 2-GANG OUTLET BOX WITH VOLTAGE BARRIER. COORDINATE BLOCKING W/ARCHITECT WHERE WALL MOUNT TV IS REQUIRED.
6'-0" TO TOP	FLUSH / SURFACE	208/120 VOLT PANELBOARD.
6'-0" TO TOP	FLUSH / SURFACE	480/277 VOLT PANELBOARD.
		TRANSFORMER, SIZE AND TYPE AS INDICATED ON DRAWING.
5'-0" TO TOP	3/30/240/3R/F	DISCONNECT SWITCH. DESIGNATION INDICATES: FUSED "F" OR NON-FUSED "NF" NEMA ENCLOSURE RATING VOLTAGE AMPACITY RATING NO. OF POLES
5'-0" TO TOP	CB 3/30/240/3R/F	ENCLOSED CIRCUIT BREAKER. DESIGNATION INDICATES: FUSED "F" OR NON-FUSED "NF" NEMA ENCLOSURE RATING VOLTAGE AMPACITY RATING NO. OF POLES
	VFD	VARIABLE FREQUENCY DRIVE
5'-0" TO TOP		MANUAL MOTOR STARTER WITH PILOT LIGHT, SURFACE MOUNTED. "F" = FLUSH MOUNTED.
5'-0" TO TOP		MAGNETIC MOTOR STARTER, SURFACE MOUNTED. "F" = FLUSH MOUNTED.
5'-0" TO TOP		COMBINATION MAGNETIC MOTOR STARTER AND FUSED DISCONNECT SWITCH.
5'-0"	RAA	GENERATOR REMOTE ANNUNCIATOR PANEL
		CONDUIT CONCEALED IN OR BELOW FLOOR SLAB OR BELOW GRADE.
		CONDUIT EXPOSED OR CONCEALED IN WALL OR ABOVE CEILING.
		CONDUIT TURNED UP.
		CONDUIT TURNED DOWN.

HOMERUN TO PANEL: PANEL NAME (CIRCUIT #)

PANEL NAME (CIRCUIT #)

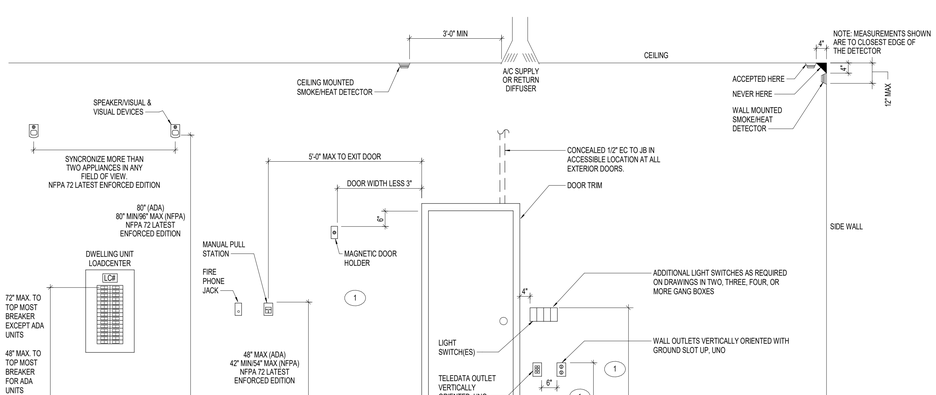
CONDUIT BARS INDICATE CONDUCTORS
EQUIPMENT GROUND
NEUTRAL (GROUND)
PHASE (HOT)

CODE SUMMARY

- 2018 INTERNATIONAL BUILDING CODE , AMENDED.
- 2017 NFPA 70 - NATIONAL ELECTRICAL CODE, AMENDED.
- 2018 INTERNATIONAL ENERGY CONSERVATION CODE

ELECTRICAL ABBREVIATIONS (NOTE 8)

A OR AMP	AMPERE
ABV	ABOVE
AC	ALTERNATING CURRENT
ACB	ABOVE COUNTER BACKSPLASH
AFCI	ARC FAULT CIRCUIT INTERRUPTER
AFD	ADJUSTABLE FREQUENCY DRIVE
AFF	ABOVE FINISHED FLOOR
AIC	AMPERES INTERRUPTING CAPACITY
AL	ALUMINUM
AM	AMMETER
AMPL	AMPLIFIER
ASYM	ASYMMETRICAL
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAGE
BEL	BELOW
BD	BUS DUCT
BOTT	BOTTOM
BRKR	BREAKER
C	COUNTERTOP
CA	CABLE
CAB	CABINET
CATV	COMMUNITY ANTENNA TELEVISION OR CABLE TELEVISION
CB	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
CF	COMPACT FLUORESCENT
CKT	CIRCUIT
CLG	CEILING
CND	CONDUIT
CNTR	CENTER
COMB	COMBINATION
COND	CONDUCTOR
CONN	CONNECTION
CONT	CONTACTOR
CT	CURRENT TRANSFORMER
CTRL	CONTROL
CU	COPPER
CW	COLD WATER
DB	DOOR BELL
DC	DIRECT CURRENT
DIM	DIMENSION
DISC	DISCONNECT
DR	DOOR RELEASE SERVICE
DS	DOOR SWITCH
DWG	DRAWING
E OR EMER	EMERGENCY
EL	EXISTING TO BE RELOCATED
ELEC	ELECTRICAL)
ELEV	ELEVATION/ELEVATOR
EM	EXISTING TO BE REMOVED
EML	EXIST REMOVED AND RELOCATED TO THIS POSITION
EMN	EXISTING TO BE REMOVED AND NEW INSTALLED
EMT	ELECTRICAL METALLIC TUBING
ENCL	ENCLOSURE
ENG	ENGINE
EP	EXPLOSIONPROOF
EQUIP	EQUIPMENT
ER	EXISTING TO REMAIN
ERC	ELEVATOR RECALL
EWC	ELECTRIC WATER COOLER
EXIST	EXISTING
EXT	EXTERIOR
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FDR	FEEDER
FC	FOOTCANDLE
FLUOR	FLUORESCENT
FSOR	MOTOR OPERATED FIRE/SMOKE DAMPER
FSS	FUSIBLE SAFETY SWITCH
FXTR	FIXTURE
GD	GARAGE DOOR
GEN	GENERATOR
GF	GROUND FAULT
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GND	GROUND
H	HORIZONTAL
HG	HOSPITAL GRADE
HGT	HIGH INTENSITY DISCHARGE
HID	HEIGHT
HOA	HAND-OFF-AUTOMATIC
HP	HORSEPOWER OR HEAT PUMP
HPF	HIGH POWER FACTOR
HPS	HIGH PRESSURE SODIUM
HTR	HEATER
HW	HOT WATER
HZ	HERTZ
IC	INTERCOM OR INTERRUPTING CAPACITY
IG	ISOLATED GROUND
IMC	INTERMEDIATE METAL CONDUIT
INC	INCANDESCENT
INIT	INITIAL
JB	JUNCTION BOX
KO	KNOCKOUT
KV	KILOVOLT
KVA	KILOVOLT-AMPERE
KVAR	KILOVOLT-AMPERE REACTIVE
KW	KILOWATT
KWH	KILOWATT-HOUR
LA	LIGHTNING ARRESTER
LC	LOADCENTER
LPS	LOW PRESSURE SODIUM
LTG	LIGHTING
LUM	LUMENS
MAG	MAGNETIC
MAN	MANUAL
MATV	MASTER ANTENNA TELEVISION
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MCM	THOUSAND CIRCULAR MILS
MG	MOTOR/GENERATOR
MH	METAL HALIDE OR MOUNTING HEIGHT
MIN	MINIMUM
MLO	MAIN LUGS ONLY
MOD	MOTOR OPERATED DAMPER
MOT	MOTOR
MS	MAGNETIC STARTER
MTG	MOUNTED OR MOUNTING
MTR	METER
MV	MERCURY VAPOR
NEC	NATIONAL ELECTRICAL CODE
NEUT	NEUTRAL
NFSS	NON-FUSIBLE SAFETY SWITCH
NO	NUMBER
OH	OVERHEAD
P	POLE
PB	PULL BOX OR PUSHBUTTON
PBS	PUSHBUTTON STATION
PH( )	PHASE
PNL	PANEL
PNLBD	PANELBOARD
PRI	PRIMARY
PT	POTENTIAL TRANSFORMER
PVC	POLYVINYL CHLORIDE
PWR	POWER
QTY	QUANTITY
RECPT	RECEPTACLE
REFRIG	REFRIGERATOR
RSC	RIGID STEEL CONDUIT
SCC	SHORT CIRCUIT CURRENT
SDR	MOTOR OPERATED SMOKE DAMPER
SEC	SECONDARY
SMR	SURFACE METAL RACEWAY
SPD	SURGE PROTECTIVE DEVICE
SPKR	SPEAKER
SR	SURFACE RACEWAY
SS	SURGE SUPPRESSOR/ ISOLATED GROUND
STR	STARTER
SW	SWITCH
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
SYM	SYMMETRICAL
S/N	SOLID NEUTRAL
TC	TIME CLOCK
TEL	TELEPHONE
TV	TELEVISION
TVSS	TRANSIENT VOLTAGE SURGE SUPP.
TYP	TYPICAL
UF	UNDERFLOOR
UG	UNDERGROUND
UL	UNDERWRITERS' LABORATORIES
UNO	UNLESS NOTED OTHERWISE
V	VOLT
VA	VOLT-AMPERE
VAR	VOLT-AMPERE REACTIVE
VM	VOLTMETER
W	WATT OR WIRE
WP	WEATHERPROOF
XFER	TRANSFER
XFMR	TRANSFORMER



ELEVATIONS - ELECTRICAL & FIRE ALARM DEVICES

NO SCALE

(1) REFER TO SYMBOL LEGEND ON THIS SHEET FOR EXACT HEIGHT OF DEVICES INDICATED.

GENERAL NOTES

NOTES (ELECTRICAL SYMBOL LEGEND)

1. THESE ARE STANDARD SYMBOLS AND MAY NOT ALL APPEAR ON THE PROJECT DRAWINGS. HOWEVER, WHEREVER THIS SYMBOL APPEARS ON THE PROJECT DRAWINGS, THE ITEM SHALL BE FURNISHED AND INSTALLED.
2. UNLESS NOTED OTHERWISE, MOUNTING HEIGHTS ARE FROM FINISHED FLOOR TO CENTERLINE OF OUTLET. WHERE THE MOUNTING HEIGHT INDICATED ON PLAN IS DIFFERENT FROM THE LEGEND, THE PLAN TAKES PREDEDENT.
3. INSTALL RECEPTACLE AND TELEPHONE OUTLET BOXES (OR OTHER OUTLET BOXES SUCH AS TV, COMPUTER, ETC.) 6" APART (EDGE TO EDGE) WHERE SHOWN SIDE BY SIDE ON WALL.
4. SEE ELECTRICAL ABBREVIATIONS FOR ALPHABETIC SUBSCRIPT WITH SYMBOL, UNO.
5. ARROW(S) INDICATE DIRECTION OF MAXIMUM LIGHT DISTRIBUTION.
6. " ● " = SHADED LUMINAIRE INDICATES FIXTURE PROVIDED WITH EMERGENCY BATTERY.
7. INSTALL DETECTOR BETWEEN 0'-4" AND 1'-0" DOWN FROM THE CEILING TO THE TOP OF THE DETECTOR, UNO. FIRE ALARM VISUAL DEVICE (STAND-ALONE OR INTEGRAL STROBE) SHALL BE LOCATED 80 INCHES TO THE BOTTOM ABOVE OF HIGHEST FLOOR LEVEL WITHIN THE SPACE OR 6" TO THE TOP BELOW CEILING, WHICHEVER IS LOWER.
8. REFER TO THE OTHER ABBREVIATION LISTS ELSEWHERE IN THESE DOCUMENTS FOR ABBREVIATIONS NOT LISTED HERE.
9. MOUNT ALL SINGLE AND DUPLEX WALL MOUNT RECEPTACLES VERTICALLY WITH GROUND PIN SLOT UP, EXCEPT RECEPTACLES MOUNTED HORIZONTALLY WITH GROUND PIN SLOT TO THE LEFT.

SHEET LIST - ELECTRICAL

SHEET NUMBER	SHEET NAME
E0.0	ELECTRICAL SYMBOL LEGEND & ABBREVIATIONS
E0.1	SCHEDULES, NOTES
E0.2	LUMINAIRE FIXTURE SCHEDULES
ES1.1	SITE PLAN - ELECTRICAL
E1.1a	GARAGE FLOOR PLAN - AREA A - LIGHTING
E1.1b	GARAGE FLOOR PLAN - AREA B - LIGHTING
E1.2a	SECOND FLOOR PLAN - AREA A - LIGHTING
E1.2b	SECOND FLOOR PLAN - AREA B - LIGHTING
E1.3a	THIRD FLOOR PLAN - AREA A - LIGHTING
E1.3b	THIRD FLOOR PLAN - AREA B - LIGHTING
E1.4a	FOURTH FLOOR PLAN - AREA A - LIGHTING
E1.4b	FOURTH FLOOR PLAN - AREA B - LIGHTING
E1.5a	FIFTH FLOOR PLAN - AREA A - LIGHTING
E1.5b	FIFTH FLOOR PLAN - AREA B - LIGHTING
E1.6	ATTIC / ROOF WELL PLAN - LIGHTING
E2.4a	FOURTH FLOOR PLAN - AREA A - POWER
E2.4b	FOURTH FLOOR PLAN - AREA B - POWER
E2.5a	FIFTH FLOOR PLAN - AREA A - POWER
E2.5b	FIFTH FLOOR PLAN - AREA B - POWER
E2.1a	GARAGE FLOOR PLAN - AREA A - POWER
E2.1b	GARAGE FLOOR PLAN - AREA B - POWER
E2.2a	SECOND FLOOR PLAN - AREA A - POWER
E2.2b	SECOND FLOOR PLAN - AREA B - POWER
E2.3a	THIRD FLOOR PLAN - AREA A - POWER
E2.3b	THIRD FLOOR PLAN - AREA B - POWER
E2.6a	ROOF PLAN - AREA A - ELECTRICAL
E2.6b	ROOF PLAN - AREA B - ELECTRICAL
E3.1	ENLARGED UNIT PLANS - LIGHTING
E3.2	ENLARGED UNIT PLANS - LIGHTING
E3.3	ENLARGED UNIT PLANS - ELECTRICAL
E3.4	ENLARGED UNIT PLANS - ELECTRICAL
E4.1	ELECTRICAL ONE-LINE RISER DIAGRAM
E5.1	PANELBOARD SCHEDULES
E5.2	PANELBOARD SCHEDULES
E5.3	PANELBOARD SCHEDULES
E5.4	PANELBOARD SCHEDULES
E5.5	ELECTRICAL SCHEDULES
E6.1	ELECTRICAL DETAILS
E6.2	ELECTRICAL UL DETAILS
E6.3	LIGHTING CONTROL DIAGRAMS/ LIGHTING DETAILS
E7.1a	GARAGE FLOOR PLAN - AREA A - FIRE ALARM
E7.1b	GARAGE FLOOR PLAN - AREA B - FIRE ALARM
E7.2a	SECOND FLOOR PLAN - AREA A - FIRE ALARM
E7.2b	SECOND FLOOR PLAN - AREA B - FIRE ALARM
E7.3a	THIRD FLOOR PLAN - AREA A - FIRE ALARM
E7.3b	THIRD FLOOR PLAN - AREA B - FIRE ALARM
E7.4a	FOURTH FLOOR PLAN - AREA A - FIRE ALARM
E7.4b	FOURTH FLOOR PLAN - AREA B - FIRE ALARM
E7.5a	FIFTH FLOOR PLAN - AREA A - FIRE ALARM
E7.5b	FIFTH FLOOR PLAN - AREA B - FIRE ALARM
E7.6	FIRE ALARM RISER DIAGRAM/DETAILS

STATE OF MISSOURI
CHRISTOPHER WALTER MILLER
NUMBER PE-2026000254
03-23-2026
PROFESSIONAL ENGINEER

BID SET

PROJECT TITLE

John Knox Village

MEADOWS BUILDING PHASE III

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ELECTRICAL SYMBOL LEGEND & ABBREVIATIONS

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GENERAL ELECTRICAL NOTES

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, NFPA, IECC, ALL LOCAL AND STATE CODES.
2. ELECTRICAL CONTRACTOR SHALL VISIT AND EXAMINE THE SITE PRIOR TO SUBMITTING BID TO BECOME FAMILIAR WITH EXISTING CONDITIONS. NO ALLOWANCE SHALL BE MADE FOR EXISTING CONDITIONS NOT KNOWN TO THE CONTRACTOR.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FEES, PERMITS AND LICENSES FOR THE COMPLETE INSTALLATION OF HIS WORK. DRAWINGS ARE DIAGRAMMATIC REPRESENTATION OF THE WORK AND INDICATES GENERAL ARRANGEMENT. SEE ARCHITECTURAL DRAWINGS FOR EXACT DIMENSIONS.
4. ALL CUTTING AND PATCHING OF WALLS AND FLOOR FOR ELECTRICAL EQUIPMENT/WORK SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
5. PROVIDE FIRE STOP PER BUILDING CODE TO ALL CONDUITS PENETRATING THROUGH FIRE RATED WALLS/PARTITION, FLOORS AND CEILINGS. COORDINATION WITH THE GENERAL CONTRACTOR SHALL BE MAINTAINED TO INSURE THAT FIRE STOPPING IS ACCOMPLISHED. USE APPROVED U.L. OR EQUIVALENT SEALANT. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR SEALING/PATCHING ANY CONDUITS OPENINGS IN FLOORS/SLAB/WALL AFTER DEMOLITION.
6. COORDINATE EXACT PHASING OF ALL WORK WITH GENERAL CONTRACTOR.
7. EXACT DEVICE LOCATIONS (RECEPTACLES, DATA/TELEPHONE OUTLETS, JUNCTION BOXES, LIGHT FIXTURES, ETC.) SHALL BE COORDINATED WITH ARCHITECTURAL PLANS.
8. ELECTRICAL CONTRACTOR SHALL VERIFY EXACT MOUNTING LOCATION AND CONNECTION REQUIREMENTS OF ALL PLUMBING/MECHANICAL EQUIPMENT WITH PLUMBING/MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
9. ALL DEVICES AND JUNCTION BOXES SHALL BE ACCESSIBLE. PROVIDE ACCESS PANEL AS REQUIRED WITH PRIOR APPROVAL OF ARCHITECT.
10. WHERE MORE THAN ONE SWITCH OR DIMMER OCCURS AT A LOCATION, GANG THE SWITCHES TOGETHER WITH A COMMON JUNCTION BOX AND FACE PLATE.
11. ELECTRICAL CONTRACTOR SHALL COORDINATE LOCATION OF LIGHT FIXTURES WITH MECHANICAL CONTRACTOR, PLUMBING CONTRACTOR AND FIRE PROTECTION CONTRACTOR TO AVOID CONFLICT WITH DUCTWORK, PIPING AND SPRINKLER PIPING.
12. NOT MORE THAN THREE LIGHTING OR RECEPTACLE CIRCUITS OR A MAXIMUM OF THREE 20A BRANCH CIRCUIT CAN BE COMBINED IN A COMMON HOMERUN WITH SEPARATE NEUTRALS FOR A TOTAL OF SIX CURRENT CARRYING CONDUCTORS IN ONE CONDUIT, UNLESS OTHERWISE NOTED.
13. CONDUCTORS SHALL BE COPPER, RATED NOT LESS THAN 600VOLTS, MINIMUM WIRE SIZE SHALL BE #12 AWG, TYPE THHN OR THWN UNLESS OTHERWISE NOTED.
14. ALL POWER WIRING ROUTING THROUGH PLENUM AREAS SHALL CONFORM TO THE INSTALLATION REQUIREMENTS OF NEC ARTICLE 300.22 (C) AND 334. WHERE WIRING IS TO PASS THROUGH A PLENUM TO SERVE A DEVICE OR FIXTURE BELOW, TRANSITION TO TYPE MC CABLE FROM THE NEAREST BOX IN THE NON-PLENUM AND EXTEND DOWN TO THE OUTLET BOX. TELEPHONE, FIRE ALARM, DATA, COMMUNICATIONS AND OTHER LOW VOLTAGE WIRING SHALL BE PLENUM RATED IF CONDUCTORS PASS THROUGH AN AIR PLENUM.
15. DISCONNECT SWITCHES SHALL BE MOUNTED ON INDIVIDUAL STRUCTURAL SUPPORTS, OR OTHERWISE DIRECTLY ON EQUIPMENT, PROVIDED NO MODIFICATION TO EQUIPMENT IS NECESSARY. ALL STRUCTURAL SUPPORTS FOR ELECTRICAL EQUIPMENT SHALL BE PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL INCLUDE DESIGN FOR ALL STRUCTURAL SUPPORT.
16. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROPERLY BALANCING ALL BRANCH CIRCUITS AMONG THE PHASES OF THE SYSTEM ACCORDING TO NEC AND PROVIDE LOAD BALANCING REPORT TO ENGINEER.
17. ALL EXTERIOR ELECTRICAL DEVICES AND EQUIPMENT SHALL BE WEATHERPROOF TYPE NEMA 3R.
18. EMERGENCY LIGHTING, IF SWITCHED, SHALL AUTOMATICALLY ILLUMINATE DURING A POWER OUTAGE FOR A MINIMUM OF 90 MIN PER LIFE-SAFTEY CODE (NFPA 101).
19. ELECTRICAL CONTRACTOR SHALL ARRANGE FOR A JOB WALK-THROUGH WITH THE BUILDING AND FIRE DEPARTMENT INSPECTORS TO DETERMINE IF ANY ADDITIONAL EXIT SIGNS ARE REQUIRED PRIOR TO COVER UP. VERIFY ARROW EGRESS REQUIREMENTS.
20. PROVIDE PULL WIRE IN EACH EMPTY RACEWAY.
21. E.C. SHALL PROVIDE CONDUIT SLEEVES FOR CABLE ROUTING, AS NECESSARY, IN WALLS, FLOORS AND CEILINGS.
22. E.C. SHALL PROVIDE A TYPED LEDGER/CIRCUIT DIRECTORY IN PANELBOARD INDICATING TYPE OF LOAD AND LOCATION FOR EACH BRANCH CIRCUIT BREAKER. PROVIDE ENGRAVED PHENOLIC NAMEPLATES FOR ALL PANELBOARDS & DISCONNECT SWITCHES, UNLESS OTHERWISE NOTED.
23. BRANCH CIRCUIT PANELBOARDS WITH MORE THAN 42 CIRCUIT BREAKERS SHALL BE INSTALLED IN A SINGLE SECTION CABINET UNLESS OTHERWISE NOTED.
24. E.C. SHALL PROVIDE AND INSTALL A WEATHER-PROOF, GFCI TYPE MAINTENANCE DUPLEX RECEPTACLE FOR ROOF-TOP MOUNTED HVAC EQUIPMENT. WHERE MULTIPLE PIECES OF EQUIPMENT ARE INSTALLED, E.C. SHALL PROVIDE AND INSTALL RECEPTACLES NO MORE THAN 25'-0" FROM ANY ROOF-TOP UNIT AND CONSULT ENGINEER FOR PLACEMENT PRIOR TO ROUGH-IN. UNISTRUT MOUNT (AS REQUIRED) AND WIRE TO SPARE 120V. POWER CIRCUIT.
25. ALL ELECTRICAL COMPONENTS OR EQUIPMENT SHALL BE LABELED BY UNDERWRITER'S LABORATORIES OR OTHER APPROVED LISTING AGENCY. APPROVED AND LABELING OF INDIVIDUAL COMPONENTS ON AN ASSEMBLY IS NOT ACCEPTABLE AS MEETING THIS REQUIREMENT. UNLESS WAIVED BY THE ENGINEER IN WRITING.
26. ALL WIRING SYSTEMS SHALL BE INSTALLED WITH A MINIMUM OF SPLICES. CONDUCTORS, WHETHER SINGLE OR MULTI-PAIR SHALL BE INSTALLED CONTINUOUS INSOFAR AS POSSIBLE FROM TERMINAL POINT TO TERMINAL POINT.
27. ALL SUPPORTS FOR EQUIPMENT, DEVICES OR FIXTURES SHALL BE UNIQUE, FROM THE BUILDING STRUCTURE. DO NOT SUPPORT WORK FROM OTHER TRADES, EQUIPMENT OR SUPPORTS WITHOUT WRITTEN PERMISSION FROM THE ENGINEER AND CONSENT OF THE OTHER TRADE, IN WRITING. SUPPORTING FROM CROSS BRACING OR ROOF DECK WILL NOT BE ALLOWED.
28. REFER TO ARCHITECTURAL WALL ELEVATIONS (WHERE GIVEN) FOR HEIGHTS AND MOUNTING RELATIONSHIP OF OUTLETS AND EQUIPMENT. IF IN DOUBT, CONTACT THE ENGINEER FOR DIRECTION PRIOR TO INSTALLATION OF SAME.
29. FLUSH OR PEDESTAL - TYPE FLOOR OUTLETS, AS INDICATED ON PLAN SHALL BE LOCATED BY DIMENSIONS PROVIDED BY THE ARCHITECT, UNLESS OTHERWISE SHOWN ON PLANS. IF IN DOUBT, CONTACT THE ENGINEER PRIOR TO ROUGHING-IN ANY WORK.
30. ALL BRANCH CIRCUITS SHALL HAVE DEDICATED NEUTRAL CONDUCTOR.
31. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL NECESSARY CONDUIT, WIRING, JUNCTION BOXES AND EQUIPMENT FOR A COMPLETE AND FUNCTIONAL FIRE ALARM SYSTEM INSTALLATION.
32. ALL NORMAL POWER DEVICES AND COVERPLATE COLORS SHALL BE SELECTED BY ARCHITECT.
33. PROVIDE ALL EXIT SIGNS AND EMERGENCY FIXTURES/INVERTERS AN UNSWITCHED HOT CONDUCTOR AND WIRE PER MANUFACTURER WIRING DIAGRAM.
34. OCCUPANCY SENSOR MANUFACTURER TO CONFIRM LOCATIONS INSURING PROPER COVERAGE. PROVIDE ALL POWER PACKS, SENSORS, DEVICES AND WIRING - INSTALL OCCUPANCY SENSORS PER MANUFACTURERS DIAGRAMS FOR A COMPLETE, OPERABLE SYSTEM. LOCATE POWER PACKS ABOVE CEILING IN AN ACCESSIBLE LOCATION.
35. CONDUIT SIZE SHALL BE 3/4" MINIMUM THROUGHOUT UNO.
36. PROVIDE LABELING FOR ALL JUNCTION BOXES INDICATING CIRCUITING INFORMATION.
37. PROVIDE LAMACOID LABELING FOR ALL PANELS, DISCONNECT SWITCHES, TRANSFORMERS, STARTERS, ETC.
38. PROVIDE POWER AND DISCONNECTING MEANS TO ALL PLUMBING AND HVAC EQUIPMENT AS INDICATED ON PLUMBING AND MECHANICAL EQUIPMENT ELECTRICAL CONNECTION SCHEDULE.
39. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING REQUIRED FOR HIS WORK. ALL CUTTING AND PATCHING SHALL BE IN ACCORD WITH THE ARCHITECTS STANDARDS FOR SUCH WORK. ALL WORK SHALL BE CONCEALED UNLESS SPECIFICALLY INDICATED TO BE EXPOSED, OR REQUIRED TO BE EXPOSED. IF IN DOUBT, CONTACT THE ENGINEERS FOR CLARIFICATIONS PRIOR TO INSTALLING ANY SUCH WORK.
40. INTERRUPTION OF ANY EXISTING SERVICES SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR, UTILITY COMPANY AS NECESSARY, AND THE ARCHITECT, AT LEAST TWO WEEKS IN ADVANCE OF THE ANTICIPATED INTERRUPTION. A SCHEDULE FOR THESE OUTAGES SHALL BE DEVELOPED AND AGREED UPON BETWEEN ALL PARTIES MENTIONED, TO AVOID UNNECESSARY INCONVENIENCE TO THE OWNER OR ANY AFFECTED PARTY. NOTIFY THE UTILITY COMPANY OF ANY ANTICIPATED SERVICES OR OUTAGES REQUIRED TWO WEEKS IN ADVANCE, IN WRITING. IF UTILITY COMPANY REQUIRES A LONGER NOTIFICATION PERIOD, SO PROVIDE.
41. LOCATE CHAIN-HUNG INDUSTRIAL FIXTURES IN MECHANICAL ROOMS TO AVOID DUCTWORK AND PIPING, TO MAXIMIZE AVAILABLE LIGHT AND SPACE AROUND EQUIPMENT, AIR HANDLERS, ETC., TO PROVIDE ADEQUATE LIGHTING TO ALL AREAS OF ROOM. PROVIDE ADDITIONAL FIXTURES OF SAME TYPE AS NEEDED TO FULFILL THIS REQUIREMENT.
42. WHERE OUTLETS ARE LOCATED APPROXIMATELY BACK-TO-BACK ON OPPOSITE SIDES OF A PARTY WALL, THE OUTLETS SHALL NOT BE INSTALLED IN THE SAME STUD SPACE, BUT SHALL BE SEPARATED BY A MINIMUM OF ONE STUD.
43. DO NOT SCALE FROM DRAWINGS, AS PRINTING DISTORTS SCALE. WORK SHALL BE LAID OUT FROM DIMENSIONED DRAWINGS, OR DIMENSIONS SUPPLIED TO THE CONTRACTOR.
44. INSTALL EQUIPMENT, MATERIALS, ETC., IN STRICT ACCORD WITH MANUFACTURERS' RECOMMENDATIONS AND DIRECTIONS. IF IN CONFLICT WITH THE DESIGN INDICATED IN CONTRACT DOCUMENTS, ADVISE THE ENGINEERS PRIOR TO INSTALLATION FOR CLARIFICATION.
45. ALL SYSTEMS, EQUIPMENT AND MATERIALS ARE TO BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER. WORK NOT MEETING THIS CRITERION SHALL BE REMOVED AND REINSTALLED SATISFACTORILY. FINAL DETERMINATION OF THE ACCEPTABILITY OF THE QUALITY OF WORK RESIDES WITH THE ENGINEER/ARCHITECT.
46. UNLESS OTHERWISE SPECIFIED OR INDICATED, ALL EQUIPMENT AND/OR MATERIALS WITHIN OCCUPIED SPACES OR EXPOSED TO VIEW ON THE BUILDING EXTERIOR SHALL BE PRIMED AND FINISHED SO AS TO COMPLEMENT ADJACENT SURFACE, UNLESS OTHERWISE NOTED. COORDINATE WORK WITH ARCHITECT.
47. WHERE PENETRATING NEW ROOFING MEMBRANE OR OTHER MATERIALS USED FOR WEATHERPROOFING THE BUILDING, MAKE SUCH PENETRATION IN A WAY THAT WILL NOT VOID OR DIMINISH THE ROOFING WARRANTY OR INTEGRITY IN ANYWAY. ROOFING CONTRACTOR SHALL MAKE ALL ROOF PENETRATIONS AND SUBSEQUENT REPAIRS.
48. THE CONTRACTOR IS RESPONSIBLE FOR ALL UTILITY COMPANY FEES, OR OTHER COSTS THAT THE UTILITY COMPANY MAY REQUIRE TO COMPLETE THEIR WORK. (ELECTRIC, TELEPHONE, TELEVISION, ETC.)
49. COORDINATE WITH ARCHITECTURAL FLOOR PLANS, ELEVATIONS AND CASEWORK DETAILS FOR LOCATION OF RECEPTACLES, UTILITY OUTLETS, ELECTRICAL DEVICES, ETC.
50. CEILING-MOUNTED ELECTRICAL DEVICES SHALL BE CENTERED IN 2' X 2' CEILING TILE AND INSTALLED CENTERED ON 2' DIMENSION OF 2' X 4' TILE AND ON CENTERLINE OR A QUARTER POINT ON 4' DIMENSION, AS INDICATED.
51. DEVIATIONS IN SIZES, CAPACITIES, FIT, FINISH, ETC., FOR EQUIPMENT FROM THAT PRIME SPECIFIED SHALL BE THE RESPONSIBILITY OF THE PURCHASER OF THAT EQUIPMENT. ANY PROVISIONS REQUIRED TO ACCOMMODATE A DEVIATION, WHETHER APPROVED BY THE ENGINEERS OR NOT, SHALL BE THE RESPONSIBILITY OF THE PURCHASER/CONTRACTOR.
52. WHERE MOUNTING HEIGHTS ARE NOT INDICATED ON DWGS OR ARE IN CONFLICT WITH ANY OTHER BUILDING SYSTEMS, CONTACT THE ENGINEERS BEFORE AFFECTING INSTALLATION. REFER ALSO TO ARCHITECTURAL WALL INTERIOR AND EXTERIOR WALL ELEVATIONS, CEILING HEIGHTS, AND OTHER DETAILS OF THESE DOCUMENTS, AS APPLICABLE.
53. COORDINATE THE LOCATION OF DRAINS, ELECTRICAL OUTLETS, GAS OUTLETS, ETC., WITH ALL CASEWORK, KITCHEN EQUIPMENT, MECHANICAL ROOM EQUIPMENT, ETC., PRIOR TO COMMENCING INSTALLATION. WORK NOT SO COORDINATED SHALL BE REMOVED AND PROPERLY INSTALLED AT THE EXPENSE OF THE RESPONSIBLE CONTRACTOR(S).
54. E.C. SHALL FURNISH AND INSTALL FIRE ALARM PERIPHERAL DEVICES AS INDICATED. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL DEVICES, RACEWAY AND WIRING REQUIRED FOR CONNECTION OF DEVICES TO THE BUILDING FIRE ALARM SYSTEM. TYPICAL FOR ALL F.A. DEVICES.
55. PROVIDE A COVER PLATE LABELED "GFCI PROTECTED" FOR EACH RECEPTACLE SUPPLIED FROM A REMOTE GFCI BREAKER OR DEVICE.
56. REVIEW AND COORDINATE CONNECTIONS TO ELECTRICALLY OPERATED EQUIPMENT FURNISHED BY OTHER TRADES WITH PROJECT CONTRACT DOCUMENTS, SHOP DRAWINGS, SUBMITTALS, AND INSTALLATION INSTRUCTIONS. NOTIFY ARCHITECT IN WRITING OF DISCREPANCIES PRIOR TO PROCEEDING WITH WORK.
57. LOCATIONS OF ELECTRICAL CONNECTIONS AND LOCAL DISCONNECTS SHALL BE COORDINATED WITH MECHANICAL AND PLUMBING CONTRACTORS TO ENSURE ACCESS AND WORKING CLEARANCE IS MAINTAINED PER NEC. NOTIFY OTHER TRADES OF REQUIRED CLEARANCE AREAS TO AVOID ROUTING OF OTHER SYSTEMS IN THESE AREAS. DO NOT INSTALL ELECTRICAL EQUIPMENT OVER EQUIPMENT NAMEPLATES OR ACCESS PANELS.
58. REFER TO EQUIPMENT SCHEDULES AND DETAILS ON ALL CONTRACT DOCUMENTS FOR ADDITIONAL INFORMATION FOR MECHANICAL AND PLUMBING CONNECTIONS. PROVIDE LABOR AND MATERIALS FOR A COMPLETE AND OPERABLE SYSTEM.
59. PROVIDE EQUIPMENT OVERCURRENT PROTECTION AND FEEDER SIZES PER ACTUAL EQUIPMENT NAMEPLATES AND INSTALLATION INSTRUCTIONS.
60. DISTRIBUTION EQUIPMENT SIZES AND EQUIPMENT LAYOUT SHALL BE CONSIDERED BASIS OF DESIGN. EQUIPMENT SIZES VARY BY MANUFACTURER. IF PROPOSED EQUIPMENT IS LARGER THAN THE SIZES ILLUSTRATED, THE CONTRACTOR SHALL SUBMIT REVISED EQUIPMENT LAYOUTS ILLUSTRATING REQUIRED CLEARANCES ARE MAINTAINED.

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GENERAL NOTES

STATE OF MISSOURI
CHRISTOPHER IAN WALKER
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MEADOWS BUILDING PHASE III

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MEADOWS III - COMMONS LUMINAIRE FIXTURE SCHEDULE

LUMINAIRE TYPE	DESCRIPTION			LAMPS					VOLTS	TOTAL CONNECTED WATTS	MOUNTING	FINISH	REMARKS
	LUMINAIRE DESCRIPTION	MANUFACTURER	CATALOG NUMBER	QTY	TYPE	WATTS	INIT. MIN. LUMENS	TEMP. COLOR (KELVINS)					
F1	6" RECESSED LED DOWNLIGHT	LITHONIA LIGHTING	LDN6 35/15 LO6AR LSS MVOLT GZ10	1	LED	18	1500	3500 K	120	18	CEILING RECESSED	CLEAR/SEMI-SPECULAR	
F1E	6" RECESSED LED DOWNLIGHT (EMERGENCY)	LITHONIA LIGHTING	LDN6 35/15 LO6AR LSS MVOLT GZ10 EL	1	LED	18 (10)	1500	3500 K	120	18 (10)	CEILING RECESSED	CLEAR/SEMI-SPECULAR	EMERGENCY BATTERY PACK WITH INTEGRAL TEST SWITCH. (EMERGENCY WATTS)
F2	VANDAL RESISTANT SURFACE MOUNTED GARAGE LED	HE WILLIAMS	VG1 L6S-740 T5-SM-DBZ DIM-UNV	1	LED	69	6500	4000 K	120-277	69	CEILING SURFACE	DARK BRONZE	
F3	6" ROUND WALL MOUNTED SCONCE - EXTERIOR LIGHTING	FCC LIGHTING	FCC610W-UNV-940-20L-BRE-72-BBUX	1	LED	60	2000	4000 K	120-277	60	EXTERIOR WALL SURFACE	BRONZE	BATTERY BACKUP
F4	2'X2' VOLUMETRIC LED TROFFER	COLUMBIA LIGHTING	CFP22-40/33/2835	1	LED	30	3300	3500 K	120-277	30	CEILING RECESSED TROFFER	WHITE	SWITCHABLE BETWEEN 4000Lm, 3300Lm, OR 2800Lm. SET TO 3300Lm BY DEFAULT.
F4E	2'X2' VOLUMETRIC LED TROFFER (EMERGENCY)	COLUMBIA LIGHTING	CFP22-40/33/2835-PLD10M	1	LED	30	3300	3500 K	120-277	30	CEILING RECESSED TROFFER	WHITE	SWITCHABLE BETWEEN 4000Lm, 3300Lm, OR 2800Lm. SET TO 3300Lm BY DEFAULT. INSTALL WITH DUAL-LITE EMERGENCY LED BATTERY PACK. USE THIS FIXTURE WHERE INDICATED AS EMERGENCY FIXTURE ON DRAWINGS.
F5	4 FT. LED STRIP	LITHONIA	CLX-48-4000LM-SEF-FDL-MVOLT-GZ10-40K-80CRI-WH	1	LED	31	4000	4000 K	120-277	31	CEILING/WALL SURFACE	WHITE	
F5E	4 FT. LED STRIP (EMERGENCY)	LITHONIA	CLX-48-4000LM-SEF-FDL-MVOLT-GZ10-40K-80CRI-E10 WLCP-SPD-WH	1	LED	31 (10)	4000	4000 K	120-277	31 (10)	CEILING/WALL SURFACE	WHITE	BACKUP BATTERY, (BATTERY WATTAGE OUTPUT)
F5a	2 FT. LED STRIP WITH INTEGRAL OCCUPANCY SENSOR	LITHONIA	CLX-24-1500LM-SEF-FDL-MVOLT-GZ10-40K-80CRI-MS DPDT7 WH	1	LED	15	1500	4000 K	120-277	15	WALL SURFACE	WHITE	MOUNT 6" ABOVE DOOR HEADER
F6	WALL MOUNTED LED STAIRWELL LIGHT. DIRECT/INDIRECT WITH EMERGENCY BATTERY	LIGHTCONTROL	4L-W-ID-LPA-4-04-SOF-C1-35K9-I050-D050-D01-1C-U NV-EF-W1-NXERM	1	LED	32	2000	3500 K	120-277	32	WALL SURFACE	WHITE	BACKUP BATTERY
F7	2' VAPORTITE LED (ELEVATOR PIT LIGHT)	LITHONIA	FEM L24 6000LM IMAFL WD MVOLT GZ10 50K 80 CRI E10WMCP	1	LED	39	6000	5000 K	MVOLT	39	WALL SURFACE	WHITE	SELF DIAGNOSTIC BATTERY PACK
EM1	INTERIOR EMERGENCY BATTERY EGRESS LIGHT AIMABLE	HUBBELL LIGHTING APPROVED EQUAL	LZ2DI	2	HALOGEN LAMP	5	N/A	N/A	120-277	10	WALL SURFACE	WHITE	90MIN BATTERY RUNTIME. SELF-TEST SWITCH.
X1	EXIT SIGN	HUBBEL LIGHTING	EVE U R W E I	1	LED	2	N/A	N/A	120-277	2	CEILING SURFACE	WHITE W/ RED LETTER	SELF-DIAGNOSTIC BATTERY.

MEADOWS III - DECORATIVE LUMINAIRE FIXTURE SCHEDULE

LUMINAIRE TYPE	DESCRIPTION			LAMPS					VOLTS	TOTAL CONNECTED WATTS	MOUNTING	FINISH	REMARKS
	LUMINAIRE DESCRIPTION	MANUFACTURER	CATALOG NUMBER	QTY	TYPE	WATTS	INIT. MIN. LUMENS	TEMP. COLOR (KELVINS)					
D1	WALL MOUNTED 30" CUBIC ADA SCONCE - UNIT ENTRY CORRIDOR	TOP BRASS LIGHTING	C-961	2	LED	15	1000	3000 K	120	30	WALL SURFACE	BRONZE PAINTED FINISH & OPAL ACRYLIC SHADE	
D2	3 LIGHT BATHROOM VANITY	KICHLER APPROVED EQUAL	5078OZ	3	LED (E26 A19)	15	2000	3500 K	120	45	WALL SURFACE	OLDE BRONZE	LIGHT UMBER ETCHED GLASS. FIXTURE SHALL BE INSTALLED WITH GLOBES POINTING DOWNWARD TOWARDS SINK. INSTALL FIXTURE AT 84" AFF, ENSURE GLOBES DO NOT OVERLAP MIRROR FRAME.
D3	24" DRUM PENDANT	JUSTICE DESIGN GROUP	CLD-9542-DBRZ-LED6-120E-GU24	6	LED (E26)	10	-	3000 K	120	60	CEILING PENDANT	DARK BRONZE	PROVIDE FIXTURE WITH DIMMABLE LED LAMPS COMPARABLE TO 60W INCANDESCENT
D4	36" DRUM PENDANT	JUSTICE DESIGN GROUP	CLD-9544-DBRZ	8	LED (E26)	10	-	3000 K	120	80	CEILING PENDANT	DARK BRONZE	PROVIDE FIXTURE WITH DIMMABLE LED LAMPS COMPARABLE TO 60W INCANDESCENT

MEADOWS III - RESIDENT UNIT LUMINAIRE FIXTURE SCHEDULE

LUMINAIRE TYPE	DESCRIPTION			LAMPS					VOLTS	TOTAL CONNECTED WATTS	MOUNTING	FINISH	REMARKS
	LUMINAIRE DESCRIPTION	MANUFACTURER	CATALOG NUMBER	QTY	TYPE	WATTS	INIT. MIN. LUMENS	TEMP. COLOR (KELVINS)					
U1	6" LED DOWNLIGHT	ELITE LIGHTING	RL643-1000L/1500L/2000L-DIM10-MVOLT-27K/30K/35K/40K/50K-WH-RL643-RT-SHZ-WH	1	LED	17	2000	3000	120V	17	CEILING RECESSED	WHITE	SELECTABLE LUMENS AND COLOR TEMP. SET AT 2000L @ 30K AS DEFAULT INSTALLATION.
U2	6" LED DOWNLIGHT WET LOCATION	ELITE LIGHTING	RL641-1150L-DIM10-MVOLT-35K-90+-WH-RL641-RT-SHZ-WH	1	LED	15	1150	3500	MVOLT	15	CEILING RECESSED	WHITE	SELECTABLE LUMENS. SET AT 1500L AS DEFAULT INSTALLATION.
U3	UNIT ENTRY & DINING ROOM LIGHT	PROGRESS LIGHTING	P3852-09	1	E26	20	1500	3000	120V	20	CEILING SURFACE	BRUSHED NICKEL	PROVIDE LED E26 BULB OF APPROX. 1500L OUTPUT
U4	*DECORATIVE PENDANT FOR KITCHEN*	*KICHLER*	*42432AP*										*FIXTURE DISCONTINUED, REPLACEMENT TBD*
U5	BATHROOM 3-LIGHT VANITY	CANARM	IVL422A03BN	3	E26	15	1500	3500	120V	45	WALL SURFACE	BRUSHED NICKEL	FLAT OPAL GLASS. PROVIDE LED E26 BULB OF APPROX. 1500L OUTPUT/EACH @ 3500 K COLOR TEMP. FIXTURE SHALL BE INSTALLED WITH GLOBES POINTING DOWNWARD TOWARDS SINK. INSTALL FIXTURE AT 84" AFF, ENSURE GLOBES DO NOT OVERLAP MIRROR FRAME.
U6A	*CEILING FAN WITH LIGHT - LIVING ROOM*	*HARBOR BREEZE*	*SAILOR BAY RLG52BNKSL*										*FIXTURE DISCONTINUED, REPLACEMENT TBD*
U6B	*CEILING FAN WITH LIGHT - BEDROOM*	*HARBOR BREEZE*	*SAILOR BAY RLG52NWZSL*										*FIXTURE DISCONTINUED, REPLACEMENT TBD*
U7	WALL MOUNTED EXTERIOR LED	PROGRESS LIGHTING	P6052-20	1	E26	15	1500	3000	120V	15	EXTERIOR WALL SURFACE	ANTIQUE BRONZE	PROVIDE LED E26 BULB OF APPROX. 1500L OUTPUT @ 3000 K COLOR TEMP.
U8A	12" LED UNDERCABINET LIGHT	KICHLER	4U27K12WHT	1	LED	5	250	2700	120V	5	UNDERCABINET	WHITE	
U8B	22" LED UNDERCABINET LIGHT	KICHLER	4U27K22WHT	1	LED	10	485	2700	120V	10	UNDERCABINET	WHITE	
U9	LAUNDRY LIGHT	LUMAX LIGHTING	CDLLED-18L-35K-24-9-FAR	1	LED	21	1800	3500	120-277V	21	CEILING SURFACE	WHITE	ORDER WITH FROSTED LENSE
U10	CLOSET FIXTURE	COLUMBIA LIGHTING	LAW4-35LW-EU	1	LED	37	4409	3500	120-277V	37	CEILING SURFACE	WHITE	

GENERAL NOTES

STATE OF MISSOURI
CHRISTOPHER IAN WALKER
NUMBER
PE-2020003254
2/27/26
PROFESSIONAL ENGINEER

BID SET

PROJECT TITLE

John Knox Village

MEADOWS BUILDING PHASE III

SFCS Architecture Engineering Planning Interiors

SFCS Inc. ▪ 305 South Jefferson Street
Roanoke, Virginia 24011.2003
540.344.6664 ▪ Fax 540.343.6925
www.sfcs.com

DESIGNER	: DAS	DRAWN	: JDM
ARCHITECT	: DAS	CHECKED	: CIW
ENGINEER	: NAD	APPROVED	: CIW

NO.	REVISION DESCRIPTION	DATE

DRAWING TITLE

LUMINAIRE FIXTURE SCHEDULES

DATE: 03/13/2026

COMM. NO. 25116.00

DRAWING E0.2

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305 South Jefferson Street
Roanoke, Virginia 24011.2003

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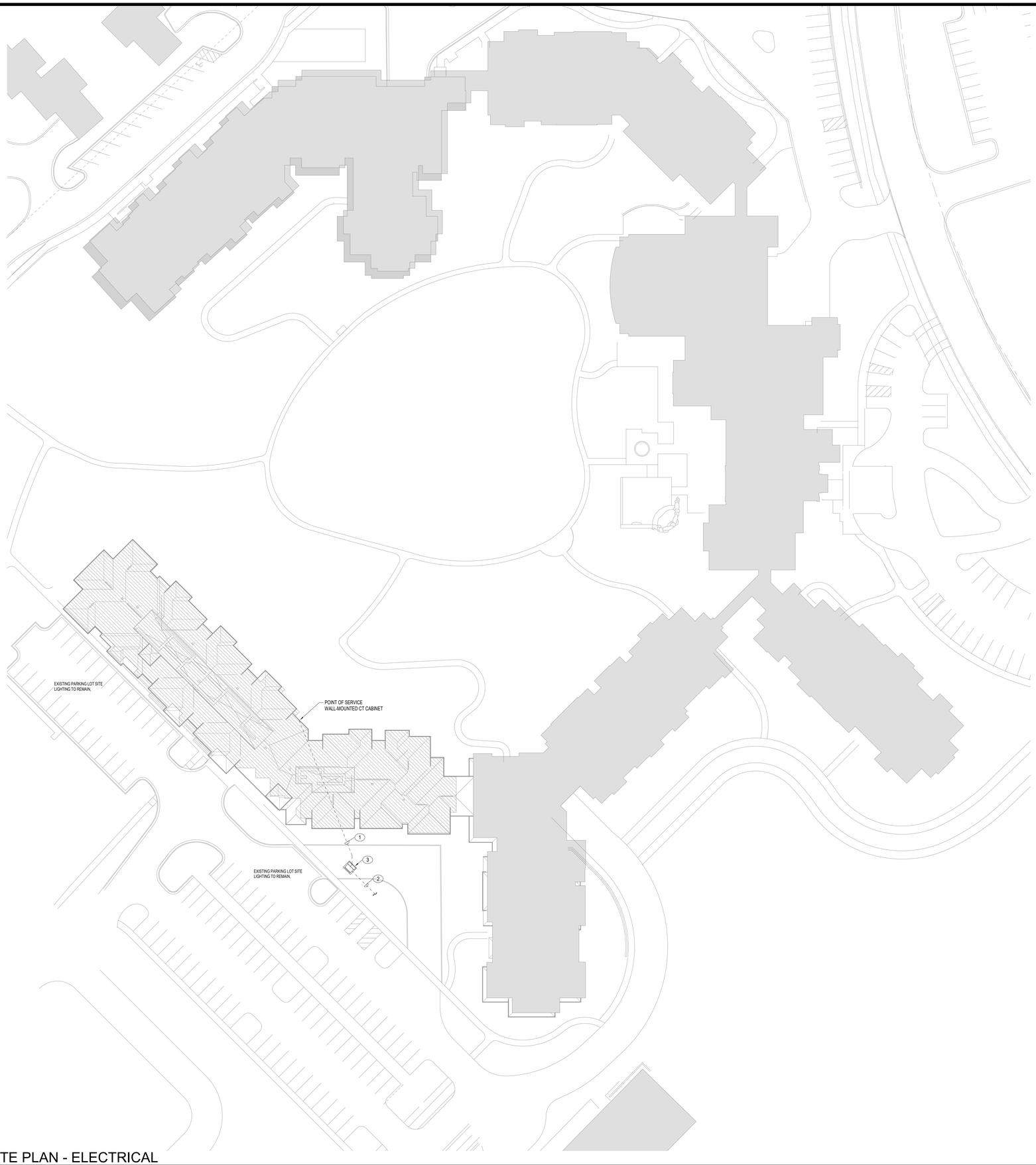
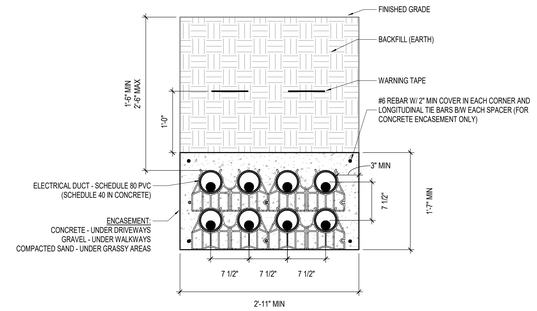


1 ES1.1 SITE PLAN - ELECTRICAL
1/32" = 1'-0"



2 ES1.1 DUCT BANK DETAIL 2X4
N.T.S.

GENERAL NOTES

A. REFER TO CIVIL DRAWINGS FOR SPECIFICATIONS AND LOCATIONS OF ALL NEW SITE POLE LUMINAIRES. E.C. SHALL SUPPLY AND INSTALL ALL LUMINAIRES INDICATED ON CIVIL DRAWINGS.
B. THE LOCATIONS OF UNDERGROUND UTILITIES SHOULD BE FIELD VERIFIED AND COORDINATED WITH ALL UTILITY COMPANIES AND CIVIL DRAWINGS PRIOR TO ANY CONSTRUCTION ON THIS SITE.
C. EACH CONTRACTOR SHALL PROVIDE ALL ITEMS, ARTICLES AND MATERIALS AS REQUIRED, INCLUDING ALL LABOR AND INCIDENTALS NECESSARY FOR A COMPLETE INSTALLATION IN WORKING AND OPERABLE CONDITION.
D. EACH CONTRACTOR SHALL SEAL ALL EXTERIOR WALL PENETRATIONS IN WATER-TIGHT MANNER. CONTRACTOR SHALL INSTALL PIPE SLEEVES IN ALL EXTERIOR WALL/FOUNDATION PENETRATIONS. CUTTING AND SLEEVING FOR INSTALLATION SHALL BE COORDINATED WITH GENERAL CONTRACTOR AND ARCHITECT PRIOR TO COMMENCING WORK.
E. ALL SERVICE DUCT CONDUIT BENDS SHALL BE MADE WITH LONG SWEEPING RADIUS ELBOWS.
F. PROVIDE GALVANIZED RIGID CONDUIT FOR EXTERIOR UNDERGROUND TRANSITIONS TO ABOVE GRADE; EXTEND CONDUIT A MINIMUM OF 3" ABOVE GRADE.
G. CONDUCTORS AND CABLES INSTALLED UNDERGROUND SHALL BE SUITABLE FOR WET LOCATIONS.
H. EACH CONTRACTOR SHALL COORDINATE ROUTING AND DEPTH OF RESPECTIVE TRADE WITH OTHER UTILITIES SO AS TO AVOID CONFLICT.
I. EACH CONTRACTOR SHALL PROVIDE FOR ALL TRENCHING/ EXCAVATION, BACKFILL, AND PATCHING OF SURFACES TO ORIGINAL CONDITION FOR THE INSTALLATION OF THEIR RESPECTIVE TRADE.
J. ALL BRANCH CIRCUIT WIRING FOR EXTERIOR LIGHTING SHALL BE ACCOMPLISHED WITH MINIMUM #10 AWG COPPER AND ALL RACEWAY FOR UNDERGROUND BRANCH CIRCUITS SHALL BE 1" SCHEDULE 40 PVC MINIMUM.

PLAN NOTES (#)

1. UNDERGROUND SERVICE LATERAL FROM PADMOUNT SERVICE TRANSFORMER TO MAIN SERVICE PANEL VIA C/T CABINET. REFER TO ONE-LINE DIAGRAM, E4.1, FOR ADDITIONAL INFORMATION.
2. PRIMARY UNDERGROUND RACEWAY AND CONDUCTORS PROVIDED AND INSTALLED BY THE LOCAL ELECTRIC UTILITY.
3. PADMOUNT SERVICE TRANSFORMER, PROVIDED AND INSTALLED BY LOCAL ELECTRIC UTILITY. CONSTRUCT CONCRETE TRANSFORMER PAD PER LOCAL ELECTRIC UTILITY REQUIREMENTS.

STATE OF MISSOURI
CHRISTOPHER I. WALLACE
NUMBER PE-2009009754
PROFESSIONAL ENGINEER

BID SET

PROJECT TITLE

John Knox Village

MEADOWS BUILDING PHASE III

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www.sfcs.com

DESIGNER : DAS	DRAWN : JDM
ARCHITECT : DAS	CHECKED : CIW
ENGINEER : NAD	APPROVED : CIW

NO.	REVISION DESCRIPTION	DATE

DRAWING TITLE
SITE PLAN - ELECTRICAL

DATE: 03/13/2026
COMM. NO. 25116.00
DRAWING ES1.1

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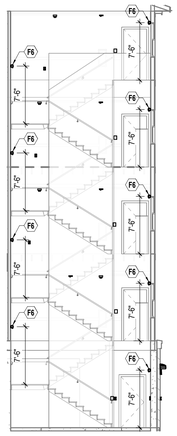
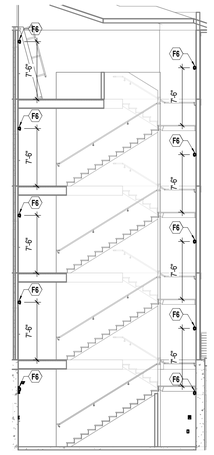


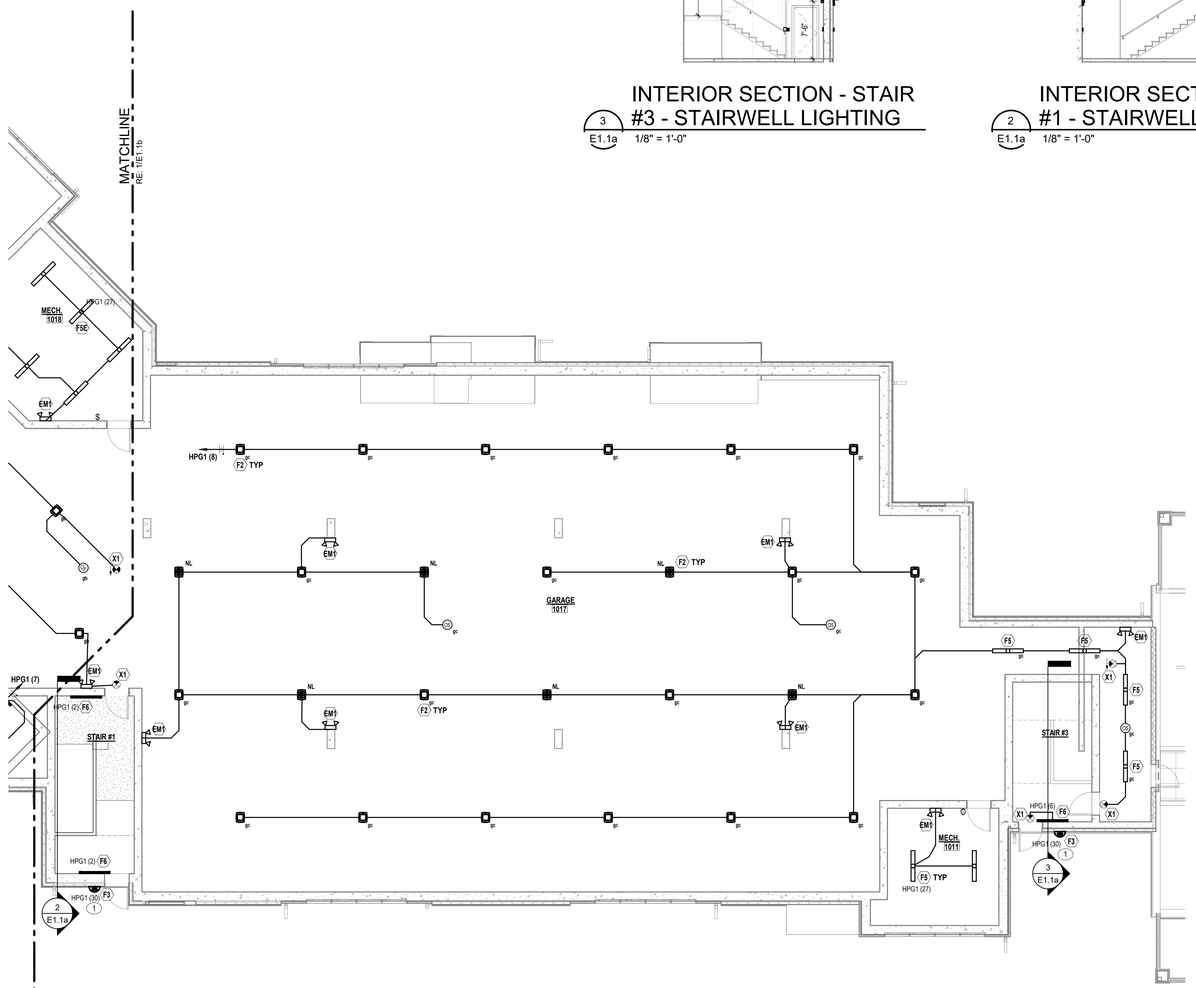
INTERIOR SECTION - STAIR #3 - STAIRWELL LIGHTING

3 E1.1a 1/8" = 1'-0"



INTERIOR SECTION - STAIR #1 - STAIRWELL LIGHTING

2 E1.1a 1/8" = 1'-0"



GARAGE FLOOR PLAN - AREA A - LIGHTING

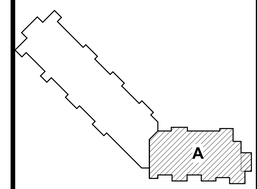
1 E1.1a 1/8" = 1'-0"

PLAN NORTH

GENERAL NOTES

A. SHADED LUMINAIRE OR (E) TAG INDICATES LUMINAIRE EQUIPPED WITH EMERGENCY BATTERY BACKUP.
B. ALL EMERGENCY LIGHT FIXTURES AND NIGHT LIGHTS (NL) SHALL BE "ON" AT ALL TIMES.
C. LIGHTING IN COMMON AREAS AND RESIDENT CORRIDOR SPACES ARE CONTROLLED BY VACANCY/OCCUPANCY SENSORS.
D. COORDINATE LUMINAIRE PLACEMENT WITH ARCHITECTURAL PLANS AND OTHER TRADES.
E. COORDINATE LUMINAIRE TYPE AND ACCESSORIES FOR INSTALLATION IN CEILING TYPES SHOWN ON ARCHITECTURAL REFLECTED CEILING PLANS.
F. LUMINAIRES SHALL BE CONTROLLED BY SWITCHES SHOWN IN EACH SPACE AND CONNECTED TO LIGHTING PANELS WITH THE REQUIRED QUANTITY OF WIRES FOR PROPER OPERATION.
G. CONNECT EXIT LIGHTS, EMERGENCY BATTERIES, AND NIGHT LIGHTS TO UNSWITCHED LEG OF CIRCUIT. THE UNSWITCHED LEG SHALL BYPASS ANY LIGHTING CONTROL DEVICES INCLUDING RELAYS, SWITCHES, OCCUPANCY SENSORS, OR DAYLIGHT CONTROL DEVICES.
H. TEST SWITCHES FOR EMERGENCY BATTERIES SHALL BE INTEGRAL TO LUMINAIRE. COORDINATE WITH SUPPLIER AS FACTORY INSTALLED BATTERIES MAY BE NECESSARY TO MEET THIS REQUIREMENT.
I. LOCATE EXIT SIGNS FOR MAXIMUM VIEWING AREA TO IDENTIFY EGRESS PATHS AS INDICATED ON PLANS. COORDINATE LOCATIONS SUCH THAT ARCHITECTURAL FEATURES OR EQUIPMENT FROM OTHER TRADES DO NOT OBSTRUCT VIEW.
J. INSTALL SWITCHES AND OTHER CONTROL DEVICES WITHIN 12" OF LATCH SIDE OF DOOR, SIDELIGHT, OR DOOR SWING IN OPEN POSITION. DO NOT INSTALL DEVICES BEHIND DOOR SWING. COORDINATE WITH ACTUAL DOOR ASSEMBLY PRIOR TO ROUGH-IN.
K. LOCATE OCCUPANCY SENSORS FOR MAXIMUM COVERAGE AND TO LIMIT FALSE TRIPPING. FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR ALLOWABLE PROXIMITY TO MECHANICAL DIFFUSERS.
L. INSTALL POWER PACKS OR OTHER CONTROL RELAYS ABOVE ACCESSIBLE CEILINGS. LABEL DEVICE AND AREA CONTROLLED.
M. LOCATE PHOTOCELLS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS FOR OPTIMAL RESPONSE TO NATURAL LIGHT IN SPACE AND TO MINIMIZE FALSE READINGS.
N. ADJUST SENSITIVITY, COVERAGE AREA, AND TIME DELAY FOR LIGHTING CONTROL DEVICES DURING CONSTRUCTION. PROVIDE FOLLOW UP VISIT THREE WEEKS AFTER OWNER HAS OCCUPIED SPACE TO MAKE ADDITIONAL ADJUSTMENTS TO ACCOUNT FOR FURNITURE LAYOUTS AND USER INPUT.
O. COORDINATE WITH MECHANICAL CONTRACTOR FOR INTEGRATION OF OCCUPANCY SENSORS WITH MECHANICAL SYSTEM CONTROLS. PROVIDE ADDITIONAL RELAYS AS REQUIRED.
P. RECESSED LUMINAIRES SHALL BE SECURED SUCH THAT THE FORCE REQUIRED TO INSERT LAMPS, TRIMS, LENSES, LOUVERS, OR DOOR FRAMES DOES NOT SHIFT HOUSING.
Q. FIXTURE SCHEDULE INDICATES THE DESIGN BASIS. LUMINAIRES, UON, ALONG WITH ANY LED LAMPS PROVIDED ARE TO BE DIMMABLE LED, 0-10V, ELV OR MLV DIMMABLE. ALL DECORATIVE FIXTURES HAVE BEEN SELECTED BY INTERIORS AND ARE IDENTIFIED ON THE LUMINAIRE SCHEDULE. REFER TO INTERIOR DESIGNER DRAWINGS AND ELEVATIONS FOR ADDITIONAL INFORMATION.
R. PROVIDE ARLINGTON T-BOX #FB42BSC OR #F42BSC, FOR INSTALLATION OF CEILING FAN OR LIGHT FIXTURE ON CROSS MEMBER OF THE SUSPENDED CEILING GRID.
S. UNIT FIXTURES DI WILL NOT HAVE DIMMER CONTROLS, BUT SHALL BE CONTROLLED BY OCCUPANCY-CONTROLLED CIRCUIT NOTED NEAR THE FIXTURE.

KEYPLAN



PLAN NOTES

1. ALL EXTERIOR LIGHT FIXTURES SHALL BE CONTROLLED BY PHOTOCELL ON/TIME CLOCK OFF.

GENERAL NOTES

STATE OF MISSOURI
CHRISTOPHER N. DALLMEYER
NUMBER
PE-2026003254
PROFESSIONAL ENGINEER
BID SET

PROJECT TITLE

John Knox Village

MEADOWS BUILDING PHASE III

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DESIGNER	DAS	DRAWN	JDM
ARCHITECT	DAS	CHECKED	CIW
ENGINEER	NAD	APPROVED	CIW

NO.	REVISION DESCRIPTION	DATE

DRAWING TITLE

GARAGE FLOOR PLAN - AREA A - LIGHTING

DATE: 03/13/2026
COMM. NO. 25116.00
DRAWING E1.1a

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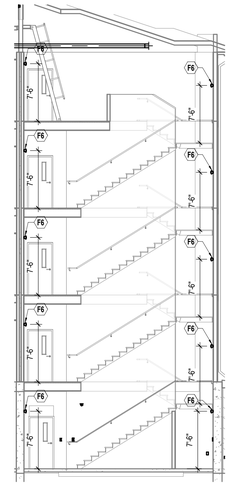
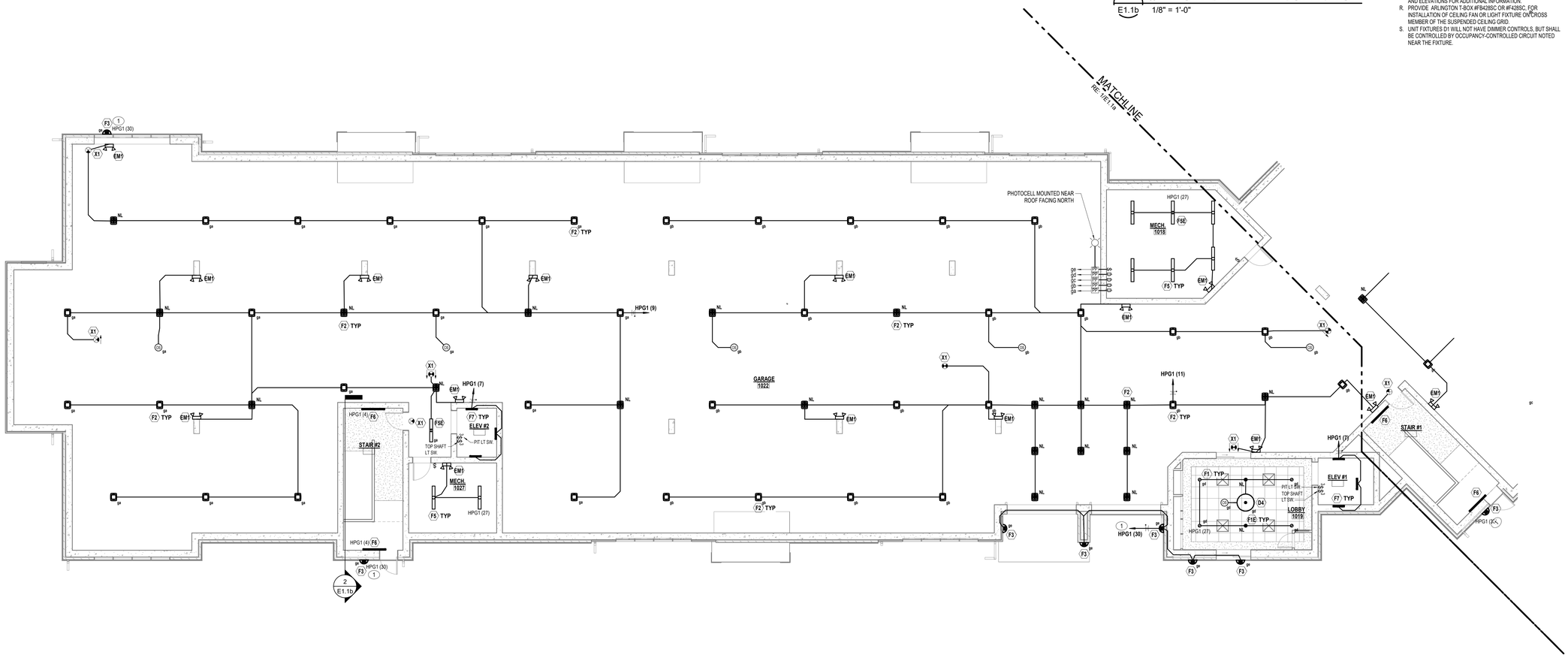


INTERIOR SECTION - STAIR #2 - STAIRWELL LIGHTING

2 / E1.1b — 1/8" = 1'-0"



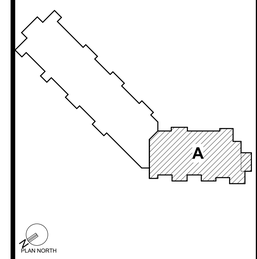
1 / E1.1b — GARAGE FLOOR PLAN - AREA B - LIGHTING

1/8" = 1'-0"

GENERAL NOTES

A. SHADED LUMINAIRE OR (E) TAG INDICATES LUMINAIRE EQUIPPED WITH EMERGENCY BATTERY BACKUP.
B. ALL EMERGENCY LIGHT FIXTURES AND NIGHT LIGHTS (NL) SHALL BE "ON" AT ALL TIMES.
C. LIGHTING IN COMMON AREAS AND RESIDENT CORRIDOR SPACES ARE CONTROLLED BY VACANCY/OCCUPANCY SENSORS.
D. COORDINATE LUMINAIRE PLACEMENT WITH ARCHITECTURAL PLANS AND OTHER TRADES.
E. COORDINATE LUMINAIRE TYPE AND ACCESSORIES FOR INSTALLATION IN CEILING TYPES SHOWN ON ARCHITECTURAL REFLECTED CEILING PLANS.
F. LUMINAIRES SHALL BE CONTROLLED BY SWITCHES SHOWN IN EACH SPACE AND CONNECTED TO LIGHTING PANELS WITH THE REQUIRED QUANTITY OF WIRES FOR PROPER OPERATION.
G. CONNECT EXIT LIGHTS, EMERGENCY BATTERIES, AND NIGHT LIGHTS TO UNSWITCHED LEG OF CIRCUIT. THE UNSWITCHED LEG SHALL BYPASS ANY LIGHTING CONTROL DEVICES INCLUDING RELAYS, SWITCHES, OCCUPANCY SENSORS, OR DAYLIGHT CONTROL DEVICES.
H. TEST SWITCHES FOR EMERGENCY BATTERIES SHALL BE INTEGRAL TO LUMINAIRE. COORDINATE WITH SUPPLIER AS FACTORY INSTALLED BATTERIES MAY BE NECESSARY TO MEET THIS REQUIREMENT.
I. LOCATE EXIT SIGNS FOR MAXIMUM VIEWING AREA TO IDENTIFY EGRESS PATHS AS INDICATED ON PLANS. COORDINATE LOCATIONS SUCH THAT ARCHITECTURAL FEATURES OR EQUIPMENT FROM OTHER TRADES DO NOT OBSTRUCT VIEW.
J. INSTALL SWITCHES AND OTHER CONTROL DEVICES WITHIN 12" OF LATCH SIDE OF DOOR, SIDELIGHT, OR DOOR SWING IN OPEN POSITION. DO NOT INSTALL DEVICES BEHIND DOOR SWING. COORDINATE WITH ACTUAL DOOR ASSEMBLY PRIOR TO ROUGH-IN.
K. LOCATE OCCUPANCY SENSORS FOR MAXIMUM COVERAGE AND TO LIMIT FALSE TRIPPING. FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR ALLOWABLE PROXIMITY TO MECHANICAL DIFFUSERS.
L. INSTALL POWER PACKS OR OTHER CONTROL RELAYS ABOVE ACCESSIBLE CEILINGS. LABEL DEVICE AND AREA CONTROLLED.
M. LOCATE PHOTOCELLS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS FOR OPTIMAL RESPONSE TO NATURAL LIGHT IN SPACE AND TO MINIMIZE FALSE READINGS.
N. ADJUST SENSITIVITY, COVERAGE AREA, AND TIME DELAY FOR LIGHTING CONTROL DEVICES DURING CONSTRUCTION. PROVIDE FOLLOW UP VISIT THREE WEEKS AFTER OWNER HAS OCCUPIED SPACE TO MAKE ADDITIONAL ADJUSTMENTS TO ACCOUNT FOR FURNITURE LAYOUTS AND USER INPUT.
O. COORDINATE WITH MECHANICAL CONTRACTOR FOR INTEGRATION OF OCCUPANCY SENSORS WITH MECHANICAL SYSTEM CONTROLS. PROVIDE ADDITIONAL RELAYS AS REQUIRED.
P. RECESSED LUMINAIRES SHALL BE SECURED SUCH THAT THE FORCE REQUIRED TO INSERT LAMPS, TRIMS, LENSES, LOUVERS, OR DOOR FRAMES DOES NOT SHIFT HOUSING.
Q. FIXTURE SCHEDULE INDICATES THE DESIGN BASIS. LUMINAIRES, UON, ALONG WITH ANY LED LAMPS PROVIDED ARE TO BE DIMMABLE LED, 0-10V, ELV OR MLV DIMMABLE. ALL DECORATIVE FIXTURES HAVE BEEN SELECTED BY INTERIORS AND ARE IDENTIFIED ON THE LUMINAIRE SCHEDULE. REFER TO INTERIOR DESIGNER DRAWINGS AND ELEVATIONS FOR ADDITIONAL INFORMATION.
R. PROVIDE ARLINGTON T-BOX #FB42BSC OR #F42BSC FOR INSTALLATION OF CEILING FAN OR LIGHT FIXTURE ON CROSS MEMBER OF THE SUSPENDED CEILING GRID.
S. UNIT FIXTURES BY WILL NOT HAVE DIMMER CONTROLS, BUT SHALL BE CONTROLLED BY OCCUPANCY-CONTROLLED CIRCUIT NOTED NEAR THE FIXTURE.

KEYPLAN



PLAN NOTES

1. ALL EXTERIOR LIGHT FIXTURES SHALL BE CONTROLLED BY PHOTOCELL ON/TIME CLOCK OFF.

GENERAL NOTES

STATE OF MISSOURI
CHRISTOPHER WIALLER
NUMBER PE-2009003754
PROFESSIONAL ENGINEER

BID SET

PROJECT TITLE

John Knox Village

MEADOWS BUILDING PHASE III

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DESIGNER	: DAS	DRAWN	: JDM
ARCHITECT	: DAS	CHECKED	: CIW
ENGINEER	: NAD	APPROVED	: CIW

NO.	REVISION DESCRIPTION	DATE

DRAWING TITLE

GARAGE FLOOR PLAN - AREA B - LIGHTING

DATE: 03/13/2026

COMM. NO. 25116.00

DRAWING E1.1b

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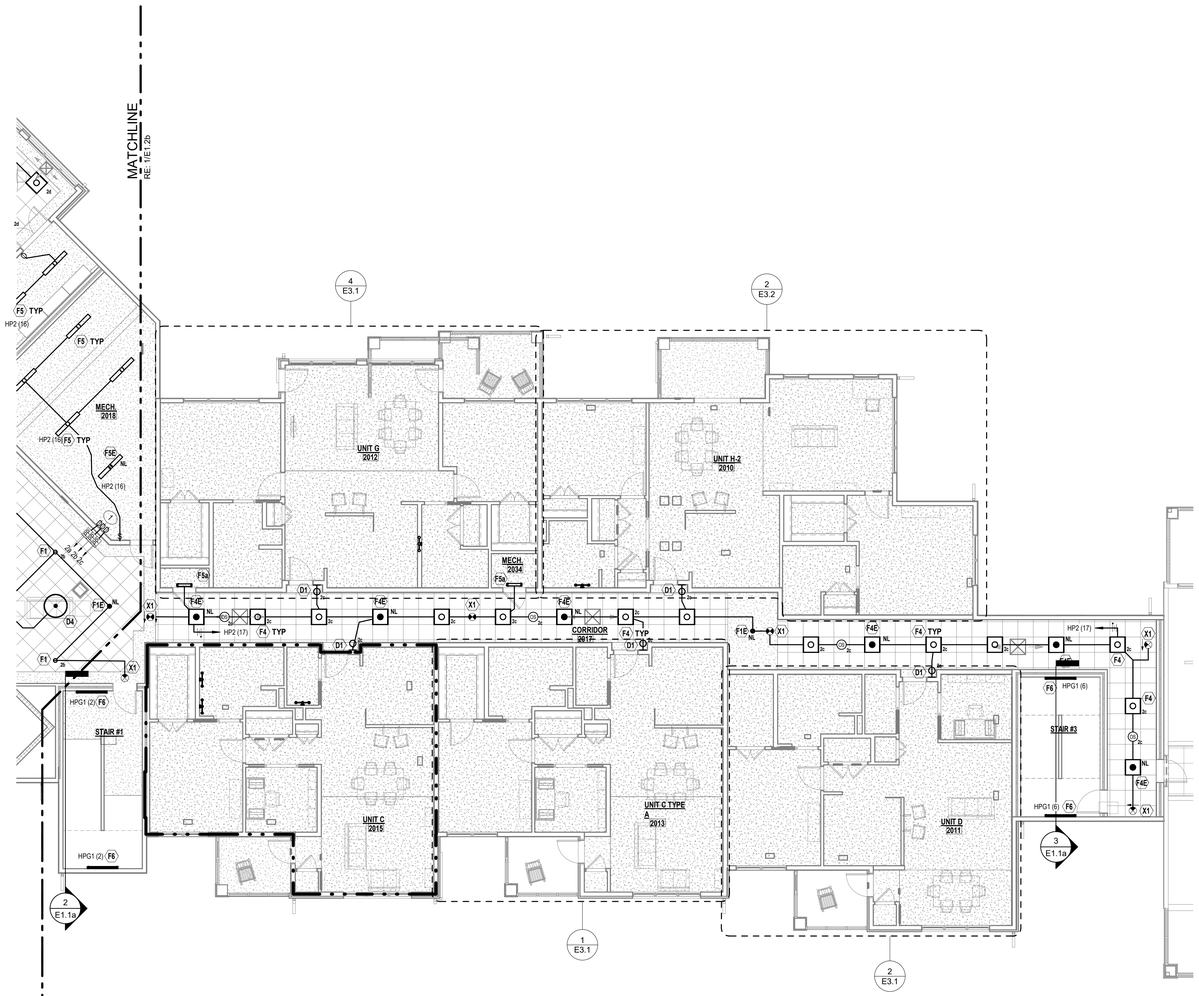

SECOND FLOOR PLAN - AREA A - LIGHTING

1/8" = 1'-0"

PLAN NORTH

GENERAL NOTES

A. SHADED LUMINAIRE OR (E) TAG INDICATES LUMINAIRE EQUIPPED WITH EMERGENCY BATTERY BACKUP.
B. ALL EMERGENCY LIGHT FIXTURES AND NIGHT LIGHTS (NL) SHALL BE "ON" AT ALL TIMES.
C. LIGHTING IN COMMON AREAS AND RESIDENT CORRIDOR SPACES ARE CONTROLLED BY VACANCY/OCCUPANCY SENSORS.
D. COORDINATE LUMINAIRE PLACEMENT WITH ARCHITECTURAL PLANS AND OTHER TRADES.
E. COORDINATE LUMINAIRE TYPE AND ACCESSORIES FOR INSTALLATION IN CEILING TYPES SHOWN ON ARCHITECTURAL REFLECTED CEILING PLANS.
F. LUMINAIRES SHALL BE CONTROLLED BY SWITCHES SHOWN IN EACH SPACE AND CONNECTED TO LIGHTING PANELS WITH THE REQUIRED QUANTITY OF WIRES FOR PROPER OPERATION.
G. CONNECT EXIT LIGHTS, EMERGENCY BATTERIES, AND NIGHT LIGHTS TO UNSWITCHED LEG OF CIRCUIT. THE UNSWITCHED LEG SHALL BYPASS ANY LIGHTING CONTROL DEVICES INCLUDING RELAYS, SWITCHES, OCCUPANCY SENSORS, OR DAYLIGHT CONTROL DEVICES.
H. TEST SWITCHES FOR EMERGENCY BATTERIES SHALL BE INTEGRAL TO LUMINAIRE. COORDINATE WITH SUPPLIER AS FACTORY INSTALLED BATTERIES MAY BE NECESSARY TO MEET THIS REQUIREMENT.
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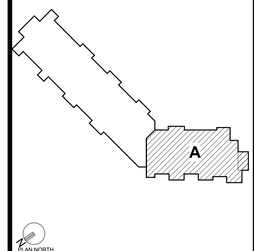
J. INSTALL SWITCHES AND OTHER CONTROL DEVICES WITHIN 12" OF LATCH SIDE OF DOOR, SIDELIGHT, OR DOOR SWING IN OPEN POSITION. DO NOT INSTALL DEVICES BEHIND DOOR SWING. COORDINATE WITH ACTUAL DOOR ASSEMBLY PRIOR TO ROUGH-IN.
K. LOCATE OCCUPANCY SENSORS FOR MAXIMUM COVERAGE AND TO LIMIT FALSE TRIPPING. FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR ALLOWABLE PROXIMITY TO MECHANICAL DIFFUSERS.
L. INSTALL POWER PACKS OR OTHER CONTROL RELAYS ABOVE ACCESSIBLE CEILINGS. LABEL DEVICE AND AREA CONTROLLED.
M. LOCATE PHOTOCELLS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS FOR OPTIMAL RESPONSE TO NATURAL LIGHT IN SPACE AND TO MINIMIZE FALSE READINGS.
N. ADJUST SENSITIVITY, COVERAGE AREA, AND TIME DELAY FOR LIGHTING CONTROL DEVICES DURING CONSTRUCTION. PROVIDE FOLLOW UP VISIT THREE WEEKS AFTER OWNER HAS OCCUPIED SPACE TO MAKE ADDITIONAL ADJUSTMENTS TO ACCOUNT FOR FURNITURE LAYOUTS AND USER INPUT.
O. COORDINATE WITH MECHANICAL CONTRACTOR FOR INTEGRATION OF OCCUPANCY SENSORS WITH MECHANICAL SYSTEM CONTROLS. PROVIDE ADDITIONAL RELAYS AS REQUIRED.
P. RECESSED LUMINAIRES SHALL BE SECURED SUCH THAT THE FORCE REQUIRED TO INSERT LAMPS, TRIMS, LENSES, LOUVERS, OR DOOR FRAMES DOES NOT SHIFT HOUSING.
Q. FIXTURE SCHEDULE INDICATES THE DESIGN BASIS. LUMINAIRES, UON, ALONG WITH ANY LED LAMPS PROVIDED ARE TO BE DIMMABLE LED, 0-10V, ELV OR MLV DIMMABLE. ALL DECORATIVE FIXTURES HAVE BEEN SELECTED BY INTERIORS AND ARE IDENTIFIED ON THE LUMINAIRE SCHEDULE. REFER TO INTERIOR DESIGNER DRAWINGS AND ELEVATIONS FOR ADDITIONAL INFORMATION.
R. PROVIDE ARLINGTON T-BOX #FB408SC OR #F408SC, FOR INSTALLATION OF CEILING FAN OR LIGHT FIXTURE ON CROSS MEMBER OF THE SUSPENDED CEILING GRID.
S. UNIT FIXTURES DI WILL NOT HAVE DIMMER CONTROLS, BUT SHALL BE CONTROLLED BY OCCUPANCY-CONTROLLED CIRCUIT NOTED NEAR THE FIXTURE.

KEYPLAN



PLAN NOTES

GENERAL NOTES

STATE OF MISSOURI
CHRISTOPHER IVAN WALLACE
NUMBER
PE-2009009254
02-22-2027
PROFESSIONAL ENGINEER

BID SET

PROJECT TITLE

John Knox Village

MEADOWS BUILDING PHASE III

SFCS
Architecture
Engineering
Planning
Interiors

SFCS Inc. ▪ 305 South Jefferson Street
Roanoke, Virginia 24011.2003
540.344.6664 ▪ Fax 540.343.6925
www.sfcs.com

DESIGNER	: DAS	DRAWN	: JDM
ARCHITECT	: DAS	CHECKED	: CIW
ENGINEER	: NAD	APPROVED	: CIW

NO.	REVISION DESCRIPTION	DATE

DRAWING TITLE

SECOND FLOOR PLAN - AREA A - LIGHTING

DATE: 03/13/2026

COMM. NO. 25116.00

DRAWING E1.2a

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Roanoke, Virginia 24011.2003

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GENERAL NOTES

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B. ALL EMERGENCY LIGHT FIXTURES AND NIGHT LIGHTS (NL) SHALL BE "ON" AT ALL TIMES.
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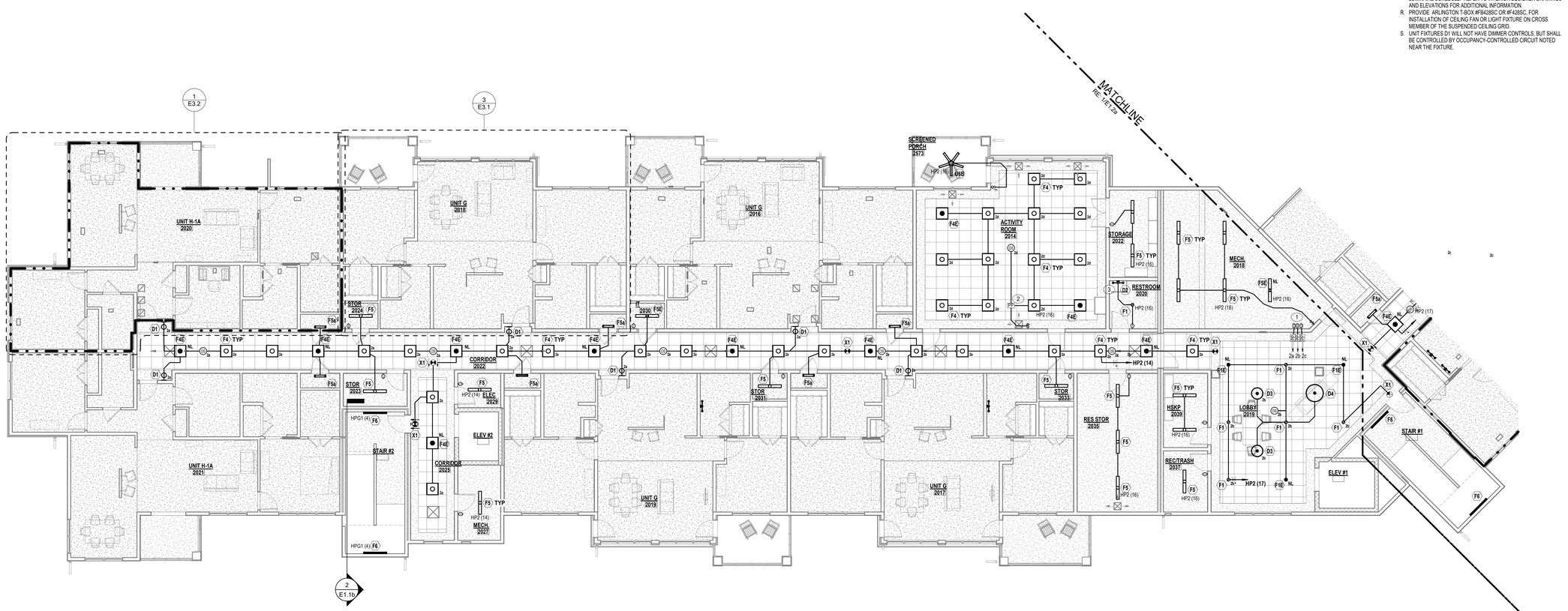
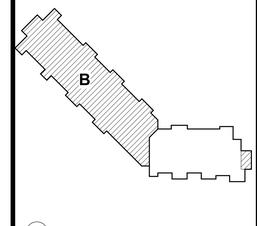


1 E1.2b SECOND FLOOR PLAN - AREA B - LIGHTING
1/8" = 1'-0"

KEYPLAN



PLAN NOTES

1. PROVIDE DEDICATED DIMMER SWITCH TO CONTROL CORRIDOR LIGHTS VIA OCCUPANCY SENSORS. CONNECT POWER PACK TO CORRIDOR OCCUPANCY SENSORS THAT ARE IN THE SAME CIRCUIT.
2. INSTALL LIGHTING CONTROL POWER PACK IN ACCESSIBLE LOCATION ABOVE DROP CEILING.
3. FIXTURE SHALL BE INSTALLED WITH GLOBES POINTING DOWNWARD TOWARDS SINK.

GENERAL NOTES

STATE OF MISSOURI
CHRISTOPHER WALLACE
NUMBER
PE-2025009254
02-22-2026
PROFESSIONAL ENGINEER

BID SET

PROJECT TITLE

John Knox Village

MEADOWS BUILDING PHASE III

SFCS Architecture Engineering Planning Interiors
SFCS Inc. ▪ 305 South Jefferson Street
Roanoke, Virginia 24011.2003
540.344.6664 ▪ Fax 540.343.6925
www.sfcs.com

DESIGNER	: DAS	DRAWN	: JDM
ARCHITECT	: DAS	CHECKED	: CW
ENGINEER	: NAD	APPROVED	: CW

NO.	REVISION DESCRIPTION	DATE

DRAWING TITLE

SECOND FLOOR PLAN - AREA B - LIGHTING

DATE: 03/13/2026
COMM. NO. 25116.00
DRAWING E1.2b

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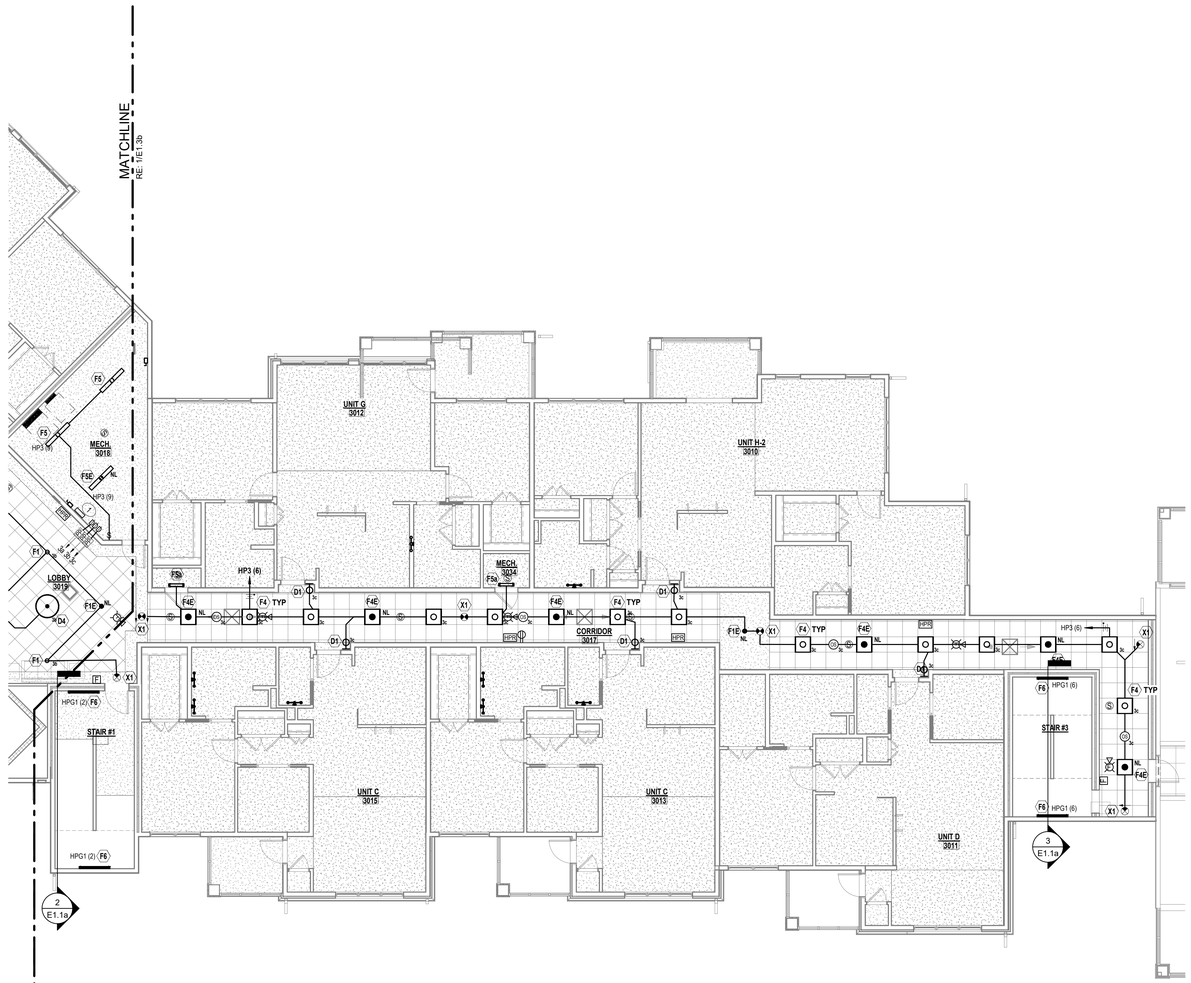

1 THIRD FLOOR PLAN - AREA A - LIGHTING
E1.3a 1/8" = 1'-0"

PLAN NORTH

GENERAL NOTES

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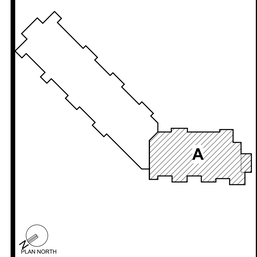

PLAN NOTES

GENERAL NOTES

STATE OF MISSOURI
CHRISTOPHER WALLACE
NUMBER
PE-2026000254
PROFESSIONAL ENGINEER

BID SET

PROJECT TITLE

John Knox Village

MEADOWS BUILDING PHASE III

SFCS Architecture Engineering Planning Interiors
SFCS Inc. ▪ 305 South Jefferson Street
Roanoke, Virginia 24011.2003
540.344.6664 ▪ Fax 540.343.6925
www.sfcs.com

DESIGNER	: DAS	DRAWN	: JDM
ARCHITECT	: DAS	CHECKED	: CIW
ENGINEER	: NAD	APPROVED	: CIW

NO.	REVISION DESCRIPTION	DATE

DRAWING TITLE
THIRD FLOOR PLAN - AREA A - LIGHTING

DATE: 03/13/2026
COMM. NO. 25116.00
DRAWING E1.3a

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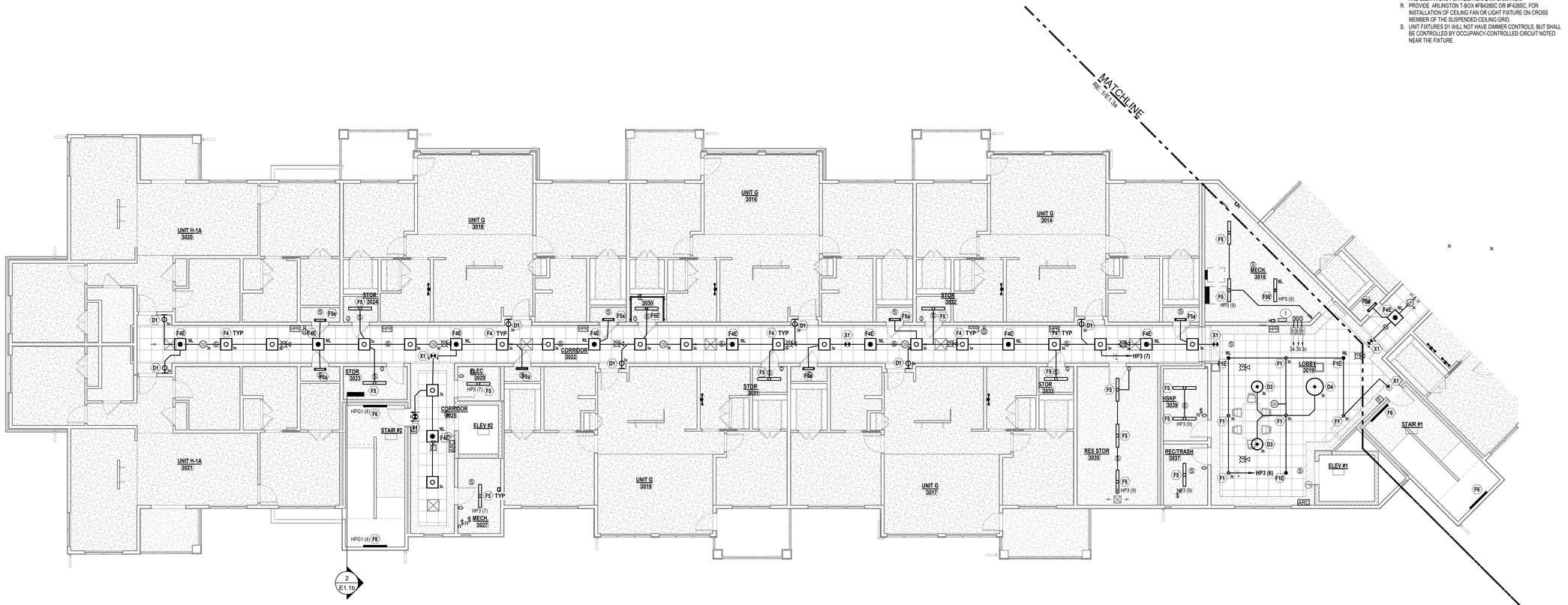

1 THIRD FLOOR PLAN - AREA B - LIGHTING
E1.3b 1/8" = 1'-0"

GENERAL NOTES

A. SHADED LUMINAIRE OR (E) TAG INDICATES LUMINAIRE EQUIPPED WITH EMERGENCY BATTERY BACKUP.
B. ALL EMERGENCY LIGHT FIXTURES AND NIGHT LIGHTS (NL) SHALL BE "ON" AT ALL TIMES.
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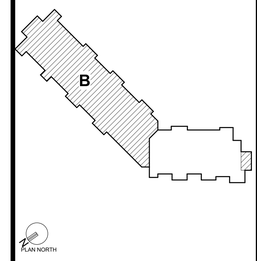

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GENERAL NOTES

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NO.	REVISION DESCRIPTION	DATE

DRAWING TITLE
THIRD FLOOR PLAN - AREA B - LIGHTING

DATE: 03/13/2026
COMM. NO. 25116.00
DRAWING E1.3b

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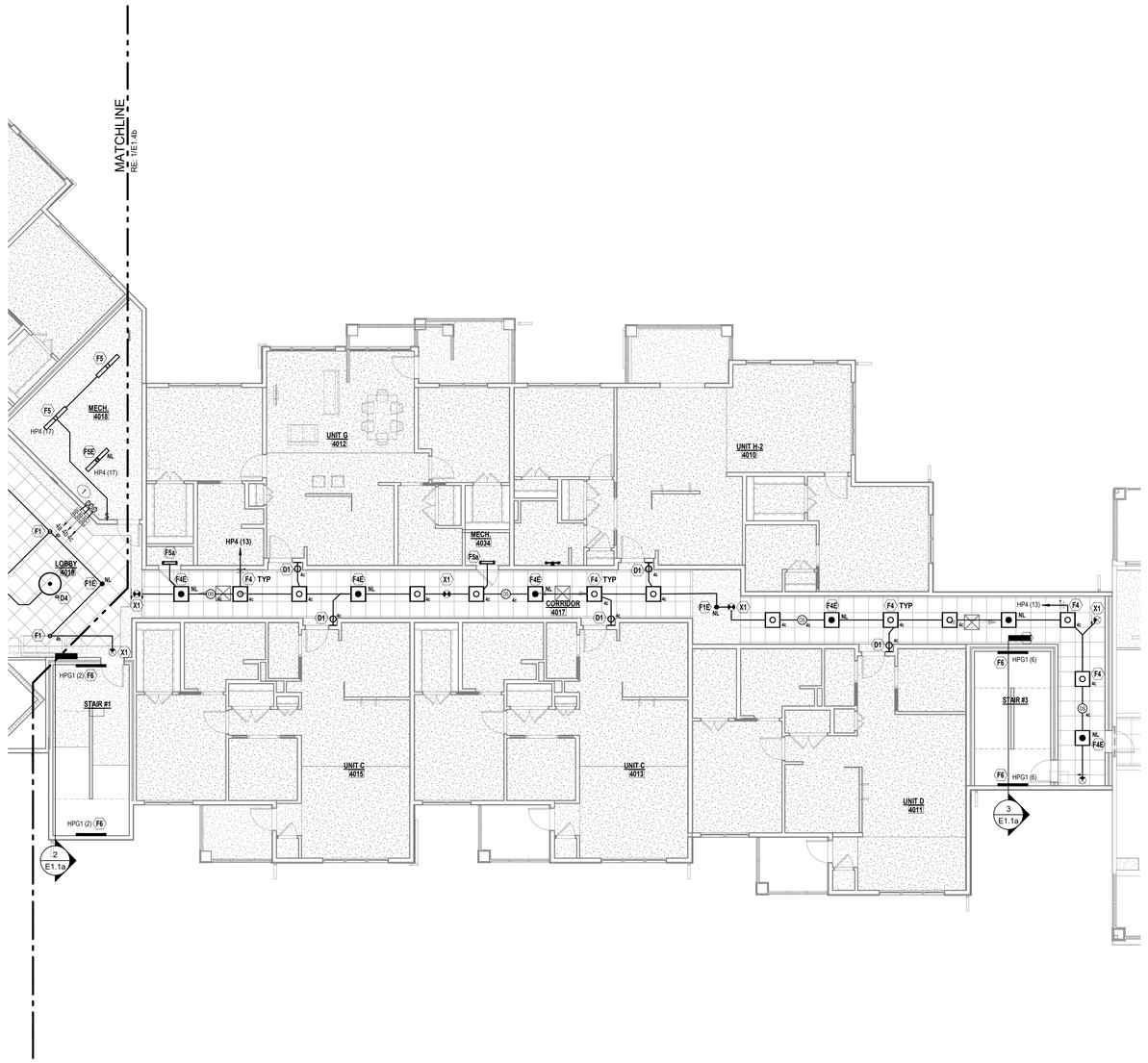

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S. UNIT FIXTURES DI WILL NOT HAVE DIMMER CONTROLS, BUT SHALL BE CONTROLLED BY OCCUPANCY-CONTROLLED CIRCUIT NOTED NEAR THE FIXTURE.

PLAN NORTH

1 FOURTH FLOOR PLAN - AREA A - LIGHTING
E1.4a 1/8" = 1'-0"

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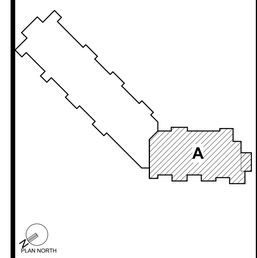
305 South Jefferson Street
Roanoke, Virginia 24011.2003

KEYPLAN



PLAN NOTES

GENERAL NOTES

STATE OF MISSOURI
CHRISTOPHER WIALL MILLER
NUMBER
PE-2009003254
PROFESSIONAL ENGINEER

BID SET

PROJECT TITLE

John Knox Village

MEADOWS BUILDING PHASE III

SFCS Architecture Engineering Planning Interiors
SFCS Inc. ▪ 305 South Jefferson Street
Roanoke, Virginia 24011.2003
540.344.6664 ▪ Fax 540.343.6925
www.sfcs.com

DESIGNER	: DAS	DRAWN	: JDM
ARCHITECT	: DAS	CHECKED	: CIW
ENGINEER	: NAD	APPROVED	: CIW

NO.	REVISION DESCRIPTION	DATE

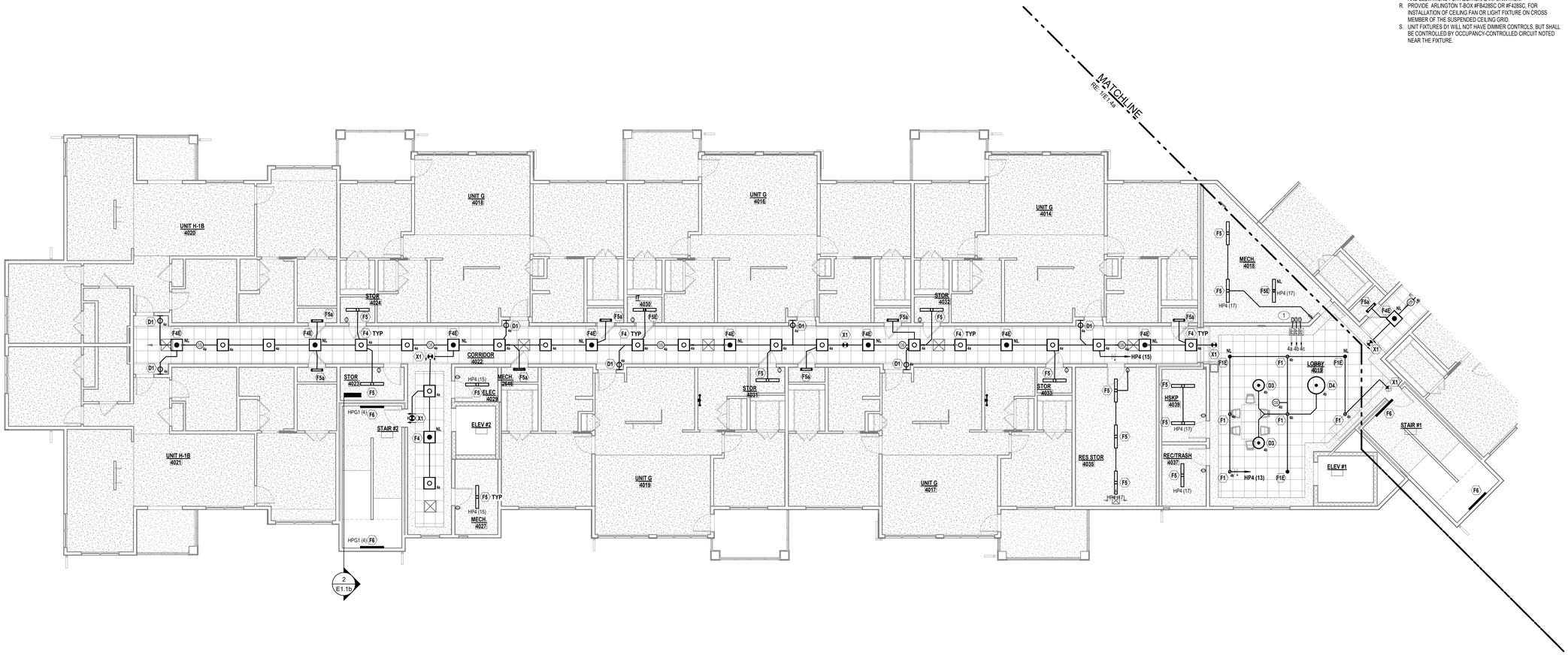
DRAWING TITLE

FOURTH FLOOR PLAN - AREA A - LIGHTING

DATE: 03/13/2026

COMM. NO. 25116.00

DRAWING E1.4a

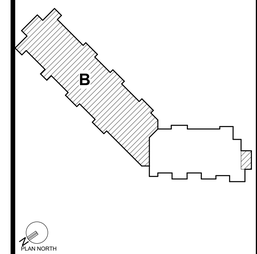


1 FOURTH FLOOR PLAN - AREA B - LIGHTING
E1.4b 1/8" = 1'-0"

GENERAL NOTES

A. SHADED LUMINAIRE OR (E) TAG INDICATES LUMINAIRE EQUIPPED WITH EMERGENCY BATTERY BACKUP.
B. ALL EMERGENCY LIGHT FIXTURES AND NIGHT LIGHTS (NL) SHALL BE "ON" AT ALL TIMES.
C. LIGHTING IN COMMON AREAS AND RESIDENT CORRIDOR SPACES ARE CONTROLLED BY VACANCY/OCCUPANCY SENSORS.
D. COORDINATE LUMINAIRE PLACEMENT WITH ARCHITECTURAL PLANS AND OTHER TRADES.
E. COORDINATE LUMINAIRE TYPE AND ACCESSORIES FOR INSTALLATION IN CEILING TYPES SHOWN ON ARCHITECTURAL REFLECTED CEILING PLANS.
F. LUMINAIRES SHALL BE CONTROLLED BY SWITCHES SHOWN IN EACH SPACE AND CONNECTED TO LIGHTING PANELS WITH THE REQUIRED QUANTITY OF WIRES FOR PROPER OPERATION.
G. CONNECT EXIT LIGHTS, EMERGENCY BATTERIES, AND NIGHT LIGHTS TO UNSWITCHED LEG OF CIRCUIT. THE UNSWITCHED LEG SHALL BYPASS ANY LIGHTING CONTROL DEVICES INCLUDING RELAYS, SWITCHES, OCCUPANCY SENSORS, OR DAYLIGHT CONTROL DEVICES.
H. TEST SWITCHES FOR EMERGENCY BATTERIES SHALL BE INTEGRAL TO LUMINAIRE. COORDINATE WITH SUPPLIER AS FACTORY INSTALLED BATTERIES MAY BE NECESSARY TO MEET THIS REQUIREMENT.
I. LOCATE EXIT SIGNS FOR MAXIMUM VIEWING AREA TO IDENTIFY EGRESS PATHS AS INDICATED ON PLANS. COORDINATE LOCATIONS SUCH THAT ARCHITECTURAL FEATURES OR EQUIPMENT FROM OTHER TRADES DO NOT OBSTRUCT VIEW.
J. INSTALL SWITCHES AND OTHER CONTROL DEVICES WITHIN 12" OF LATCH SIDE OF DOOR, SIDELIGHT, OR DOOR SWING IN OPEN POSITION. DO NOT INSTALL DEVICES BEHIND DOOR SWING. COORDINATE WITH ACTUAL DOOR ASSEMBLY PRIOR TO ROUGH-IN.
K. LOCATE OCCUPANCY SENSORS FOR MAXIMUM COVERAGE AND TO LIMIT FALSE TRIPPING. FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR ALLOWABLE PROXIMITY TO MECHANICAL DIFFUSERS.
L. INSTALL POWER PACKS OR OTHER CONTROL RELAYS ABOVE ACCESSIBLE CEILINGS. LABEL DEVICE AND AREA CONTROLLED.
M. LOCATE PHOTOCELLS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS FOR OPTIMAL RESPONSE TO NATURAL LIGHT IN SPACE AND TO MINIMIZE FALSE READINGS.
N. ADJUST SENSITIVITY, COVERAGE AREA, AND TIME DELAY FOR LIGHTING CONTROL DEVICES DURING CONSTRUCTION. PROVIDE FOLLOW UP VISIT THREE WEEKS AFTER OWNER HAS OCCUPIED SPACE TO MAKE ADDITIONAL ADJUSTMENTS TO ACCOUNT FOR FURNITURE LAYOUTS AND USER INPUT.
O. COORDINATE WITH MECHANICAL CONTRACTOR FOR INTEGRATION OF OCCUPANCY SENSORS WITH MECHANICAL SYSTEM CONTROLS. PROVIDE ADDITIONAL RELAYS AS REQUIRED.
P. RECESSED LUMINAIRES SHALL BE SECURED SUCH THAT THE FORCE REQUIRED TO INSERT LAMPS, TRIMS, LENSES, LOUVERS, OR DOOR FRAMES DOES NOT SHIFT HOUSING.
Q. FIXTURE SCHEDULE INDICATES THE DESIGN BASIS. LUMINAIRES, UON, ALONG WITH ANY LED LAMPS PROVIDED ARE TO BE DIMMABLE LED, 0-10V, ELV OR MLV DIMMABLE. ALL DECORATIVE FIXTURES HAVE BEEN SELECTED BY INTERIORS AND ARE IDENTIFIED ON THE LUMINAIRE SCHEDULE. REFER TO INTERIOR DESIGNER DRAWINGS AND ELEVATIONS FOR ADDITIONAL INFORMATION.
R. PROVIDE ARLINGTON T-BOX #FB42BSC OR #F42BSC, FOR INSTALLATION OF CEILING FAN OR LIGHT FIXTURE ON CROSS MEMBER OF THE SUSPENDED CEILING GRID.
S. UNIT FIXTURES DI WILL NOT HAVE DIMMER CONTROLS, BUT SHALL BE CONTROLLED BY OCCUPANCY-CONTROLLED CIRCUIT NOTED NEAR THE FIXTURE.

KEYPLAN



PLAN NOTES

1. PROVIDE DEDICATED DIMMER SWITCH TO CONTROL CORRIDOR LIGHTS VIA OCCUPANCY SENSORS. CONNECT POWER PACK TO CORRIDOR OCCUPANCY SENSORS THAT ARE IN THE SAME CIRCUIT.

GENERAL NOTES

CHRISTOPHER NAILOR MILLER NUMBER PE-2026000254 STATE OF MISSOURI PROFESSIONAL ENGINEER

BID SET

PROJECT TITLE

John Knox Village

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ARCHITECT	: DAS	CHECKED	: CIW
ENGINEER	: NAD	APPROVED	: CIW

NO.	REVISION DESCRIPTION	DATE

DRAWING TITLE

FOURTH FLOOR PLAN - AREA B - LIGHTING

DATE: 03/13/2026

COMM. NO. 25116.00

DRAWING E1.4b

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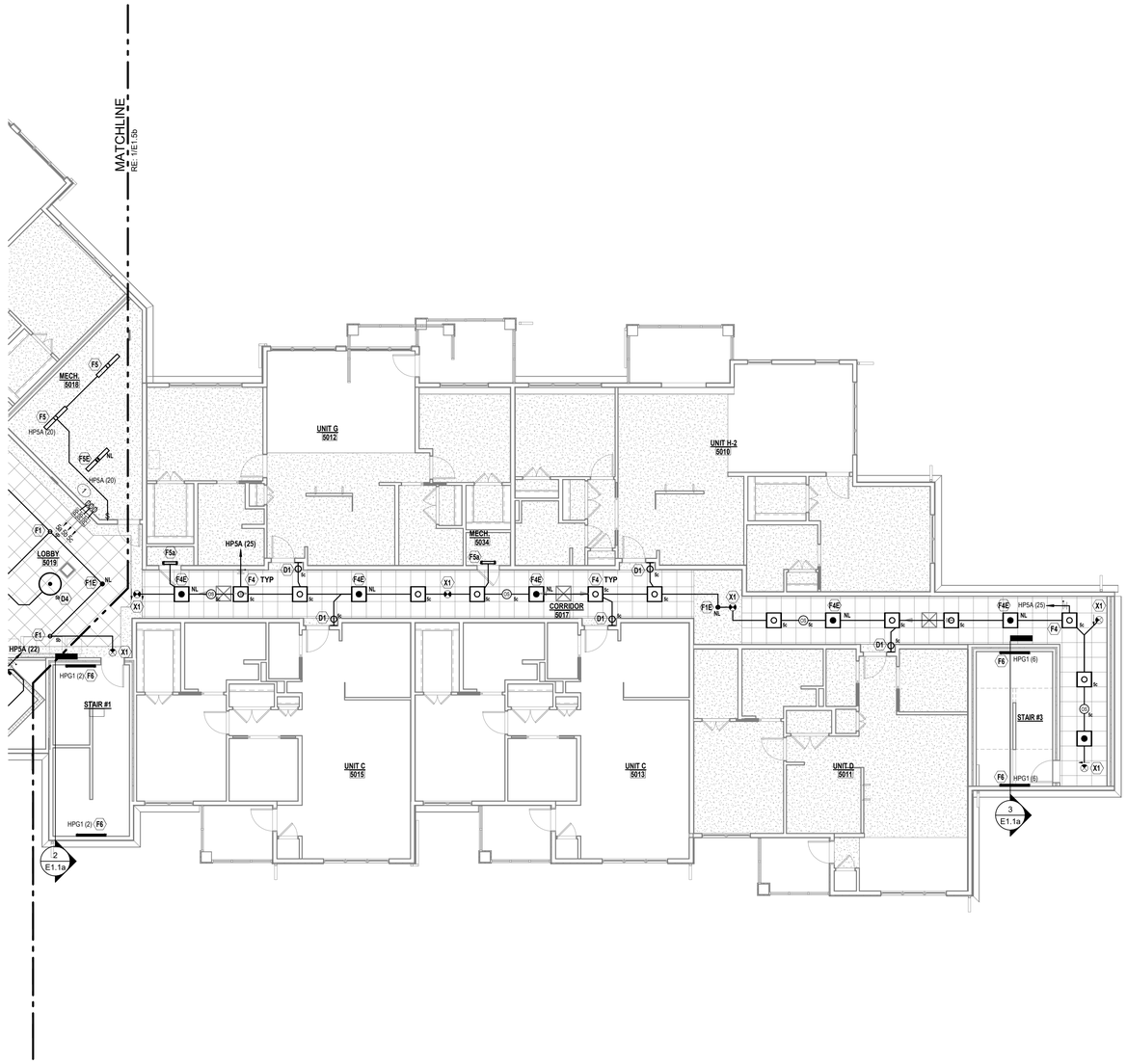

1 FIFTH FLOOR PLAN - AREA A - LIGHTING
E1.5a
1/8" = 1'-0"

PLAN NORTH

GENERAL NOTES

A. SHADED LUMINAIRE OR (E) TAG INDICATES LUMINAIRE EQUIPPED WITH EMERGENCY BATTERY BACKUP.
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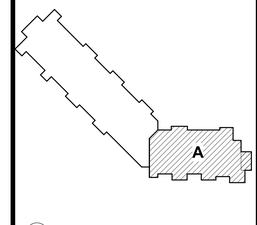
KEYPLAN



PLAN NOTES

GENERAL NOTES

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Roanoke, Virginia 24011.2003

STATE OF MISSOURI
CHRISTOPHER WALLACE
NUMBER
PE-2026003254
PROFESSIONAL ENGINEER

BID SET

PROJECT TITLE

John Knox Village

MEADOWS BUILDING PHASE III

SFCS Architecture Engineering Planning Interiors
SFCS Inc. ▪ 305 South Jefferson Street
Roanoke, Virginia 24011.2003
540.344.6664 ▪ Fax 540.343.6925
www.sfcs.com

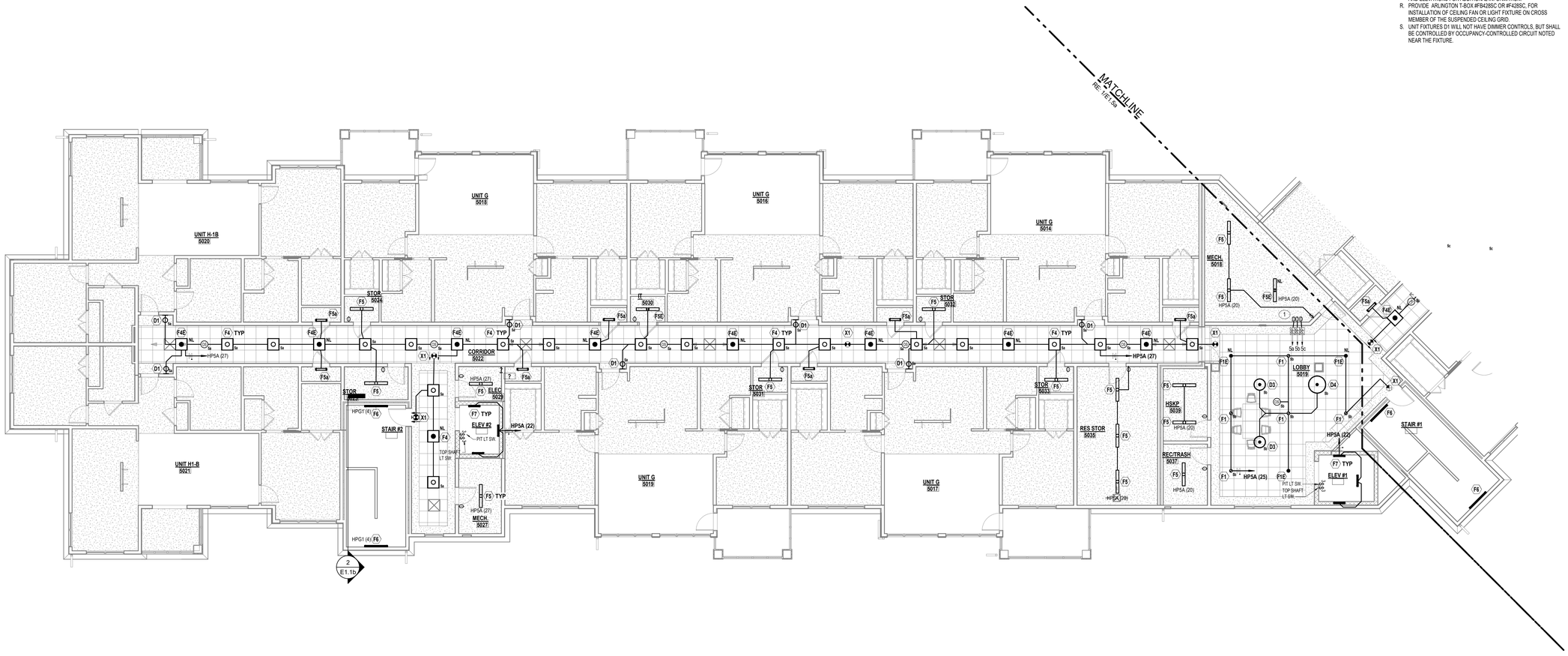
DESIGNER	DAS	DRAWN	JDM
ARCHITECT	DAS	CHECKED	CIW
ENGINEER	NAD	APPROVED	CIW

NO.	REVISION DESCRIPTION	DATE

DRAWING TITLE

FIFTH FLOOR PLAN - AREA A - LIGHTING

DATE: 03/13/2026
COMM. NO. 25116.00
DRAWING E1.5a



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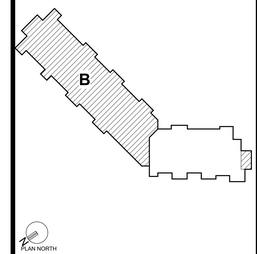
KEYPLAN



PLAN NOTES

1. PROVIDE DEDICATED DIMMER SWITCH TO CONTROL CORRIDOR LIGHTS VIA OCCUPANCY SENSORS. CONNECT POWER PACK TO CORRIDOR OCCUPANCY SENSORS THAT ARE IN THE SAME CIRCUIT.

GENERAL NOTES

1 E1.5b FIFTH FLOOR PLAN - AREA B - LIGHTING
1/8" = 1'-0"

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Roanoke, Virginia 24011-2003

CHRISTOPHER NIALL DALY
NUMBER
PE-2026000254
PROFESSIONAL ENGINEER
STATE OF MISSOURI

BID SET

PROJECT TITLE

John Knox Village

MEADOWS BUILDING PHASE III

SFCS Architecture Engineering Planning Interiors
SFCS Inc. ▪ 305 South Jefferson Street
Roanoke, Virginia 24011.2003
540.344.6664 ▪ Fax 540.343.6925
www.sfcs.com

DESIGNER	: DAS	DRAWN	: JDM
ARCHITECT	: DAS	CHECKED	: CIW
ENGINEER	: NAD	APPROVED	: CIW

NO.	REVISION DESCRIPTION	DATE

DRAWING TITLE
FIFTH FLOOR PLAN - AREA B - LIGHTING

DATE: 03/13/2026
COMM. NO. 25116.00
DRAWING E1.5b

3/13/2026
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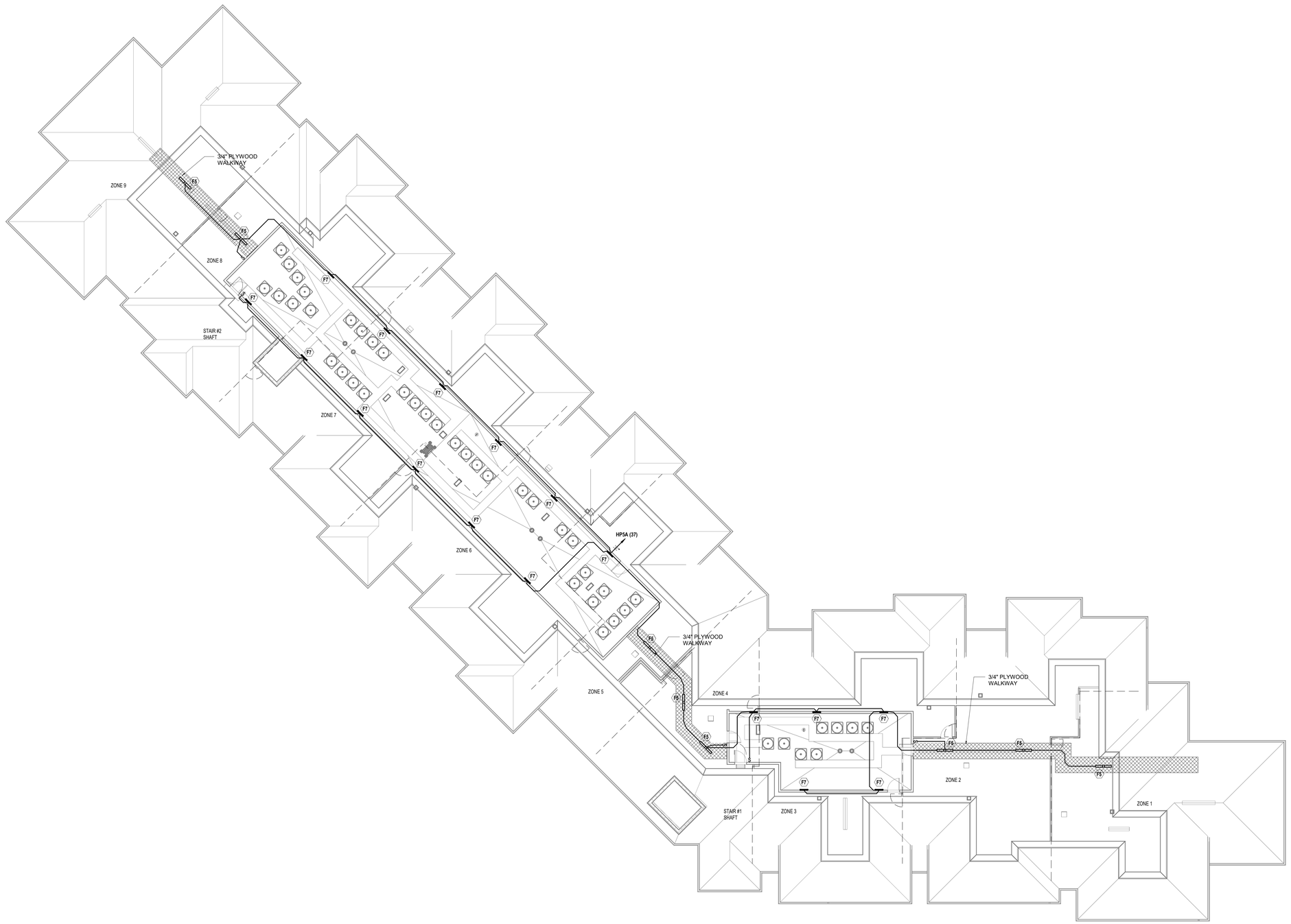

1 E1.6 ATTIC / ROOF WELL PLAN - LIGHTING
3/32" = 1'-0"

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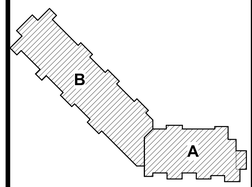
KEYPLAN



PLAN NOTES

GENERAL NOTES

STATE OF MISSOURI
CHRISTOPHER WALLACE
NUMBER
PE-2009000254
PROFESSIONAL ENGINEER

BID SET

PROJECT TITLE

John Knox Village

MEADOWS BUILDING PHASE III

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SFCS Inc. ▪ 305 South Jefferson Street
Roanoke, Virginia 24011.2003
540.344.6664 ▪ Fax 540.343.6925
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DESIGNER : DAS	DRAWN : JDM
ARCHITECT : DAS	CHECKED : CIW
ENGINEER : NAD	APPROVED : CIW

NO.	REVISION DESCRIPTION	DATE

DRAWING TITLE

ATTIC / ROOF WELL PLAN - LIGHTING

DATE: 03/13/2026
COMM. NO. 25116.00
DRAWING E1.6

3/13/2026
1:06:05 PM

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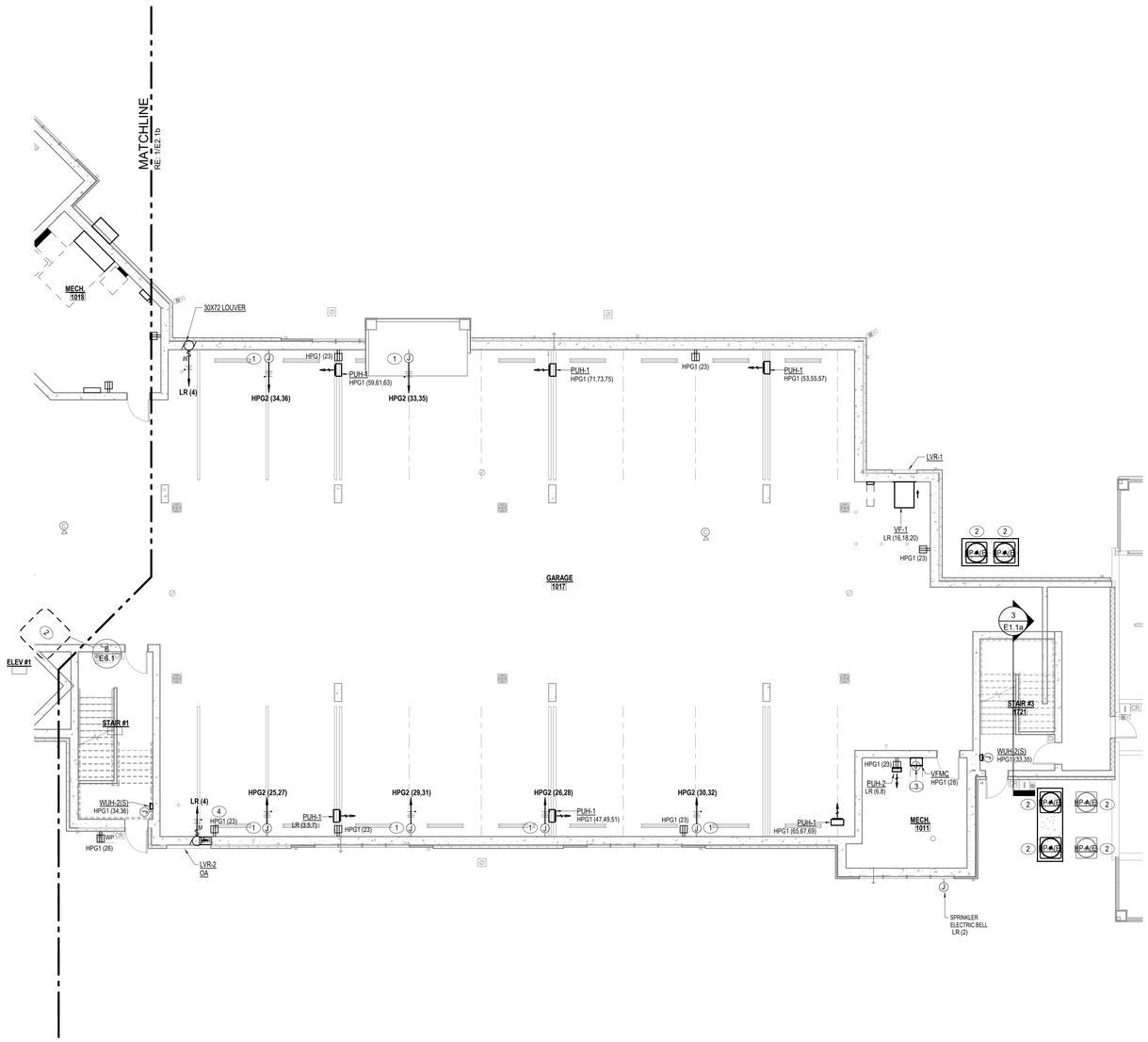
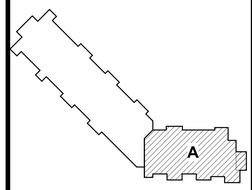


1 GARAGE FLOOR PLAN - AREA A - POWER
E2.1a 1/8" = 1'-0"

PLAN NORTH

KEYPLAN



PLAN NORTH

PLAN NOTES

1. PROVIDE JUNCTION BOX FOR FUTURE EV CHARGERS. PROVIDE (1) 1" DEDICATED CONDUIT TO ELECTRICAL ROOM. PROVIDE (1) 1" CONDUIT TO 2ND FLOOR TELECOMM 2030.
2. EXISTING RELOCATED SPLIT SYSTEM HEAT PUMP. EXTEND BRANCH CIRCUIT WIRING AND TERMINATE AT NEW UNIT LOCATION AS REQUIRED TO MAINTAIN A COMPLETE AND FUNCTIONAL SYSTEM. REF. MECHANICAL DRAWINGS.
3. 120VAC CONNECTION TO GARAGE VENTILATION CONTROL PANEL.
4. DUPLEX RECEPTACLE MOUNTED AT 12" BELOW CEILING FOR CONNECTION TO EMERGENCY CALL REPEATER. REFER TO LOW VOLTAGE SHEETS FOR ADDITIONAL INFORMATION.

GENERAL NOTES

A. REFER TO "MECHANICAL EQUIPMENT ELECTRICAL CONNECTION SCHEDULE" FOR ADDITIONAL EQUIPMENT CONNECTION INFORMATION.
B. REFERENCE FIRE ALARM DRAWINGS FOR ADDITIONAL DEVICES REQUIRING POWER CONNECTIONS AS WELL AS AN INTERFACE WITH FIRE ALARM SYSTEM. REFER TO MECHANICAL DRAWINGS FOR QUANITY AND LOCATION OF SMOKE DAMPERS, SMOKE-FIRE DAMPERS AND DUCT SMOKE DETECTORS. PROVIDE 120VAC CONNECTION TO SMOKE DAMPERS, FIRE/SMOKE DAMPERS AND PROVIDE WITH SMOKE DETECTOR.
C. SEE PANEL SCHEDULES AND MECHANICAL EQUIPMENT SCHEDULES FOR RELATED INFORMATION.

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CHRISTOPHER WALKER MILLER
NUMBER PE-2005009254
STATE OF MISSOURI
PROFESSIONAL ENGINEER
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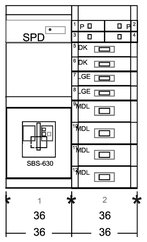
DESIGNER	DAS	DRAWN	JDM
ARCHITECT	DAS	CHECKED	CIW
ENGINEER	NAD	APPROVED	CIW

NO.	REVISION DESCRIPTION	DATE

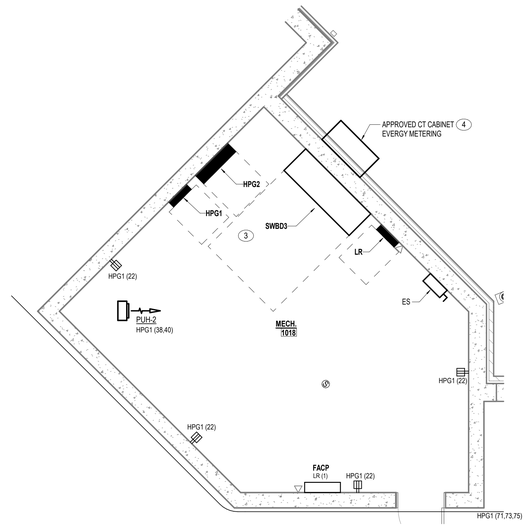
DRAWING TITLE

GARAGE FLOOR PLAN - AREA A - POWER

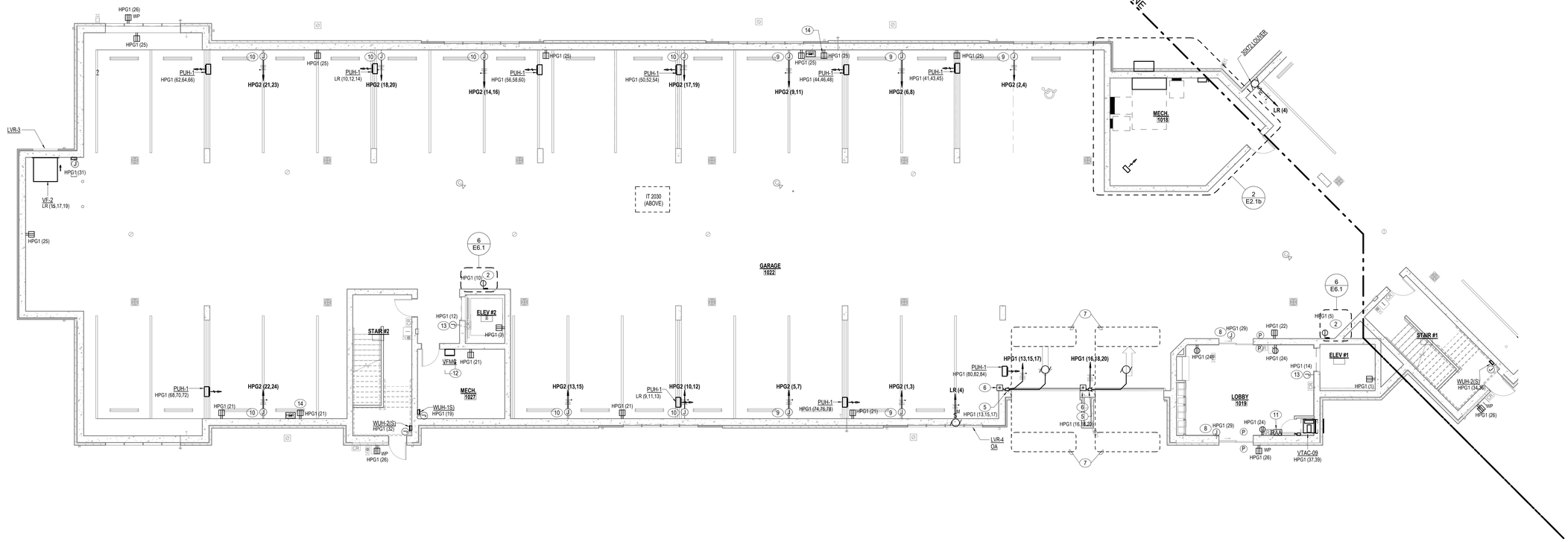
DATE: 03/13/2026
COMM. NO. 25116.00
DRAWING E2.1a



3 E2.1b SWITCHBOARD LINEUP
N.T.S.



2 E2.1b MECH 1018 - ELECTRICAL
1/4" = 1'-0"



1 E2.1b GARAGE FLOOR PLAN - AREA B - POWER
1/8" = 1'-0"

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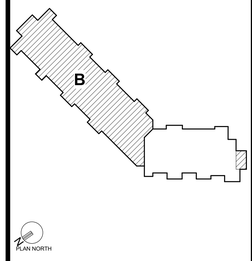
KEYPLAN



PLAN NOTES

1. INSTALL RECEPTACLE AT THE ELEVATOR PIT, AT LOCATION AS DIRECTED BY THE ELEVATOR EQUIPMENT INSTALLER OR AS REQUIRED BY AUTHORITIES HAVING JURISDICTION. PROVIDE WEATHERPROOF-IN-USE COVER.
2. SIMPLEX RECEPTACLE FOR CONNECTION TO ELEVATOR SUMP PUMP CONTROL PANEL.
3. PROVIDE 4"HOUSEKEEPING PAD AT SERVICE SWITCHBOARD MSB1.
4. PROVIDE AND INSTALL APPROVED CT CABINET. MILBANK KCPLM-303MUGBX OR ERICKSON CT304-KCPL. E.C. SHALL PROVIDE METER SOCKET AND C.T.'S. FURNISH AND INSTALL 1-1/4" RIGID METALLIC CONDUIT, WITH SUFFICIENT PULL BOXES, FROM THE C.T. CABINET TO THE METER SOCKET. REFER TO EVERGY ELECTRICAL SERVICE STANDARDS FOR ADDITIONAL INFORMATION.
5. GARAGE DOOR. PROVIDE 3P, 30A, 240V, NEMA 1 DISCONNECT SWITCH FOR CONNECTION TO MOTORIZED GARAGE DOOR. PROVIDE (1) 3/4" CONDUIT FOR POWER AND (1) FOR CONTROL WIRING. COORDINATE LOCATION OF UNIT AND FINAL ELECTRICAL LOAD AND VOLTAGE WITH EQUIPMENT PROVIDER PRIOR TO ROUGH-IN.
6. ELECTRICAL CONTRACTOR TO INSTALL 3-BUTTON MANUAL SWITCH FOR CONTROLS OF OVERHEAD DOOR. COORDINATE LOCATION OF CONTROLS WITH OWNERS REP. PRIOR TO ROUGH-IN.
7. INSTALL 1" SCH 80 PVC FROM OVERHEAD DOOR OPERATOR TO BELOW SLAB FOR VEHICLE DETECTION LOOP. COORDINATE ALL DOOR AND DETECTION LOOP REQUIREMENTS WITH VENDOR PRIOR TO ROUGH-IN. DOOR OPERATOR AND LOOP PROVIDED AND INSTALLED BY OTHERS. DOOR OPEN/CLOSE/STOP WALL CONTROL TO BE PROVIDED AND INSTALLED BY OVERHEAD DOOR OPERATOR.
8. ELECTRICALLY OPERATED AUTOMATIC DOOR SYSTEM. PROVIDE POWER CONNECTION TO DOOR MOTOR AND PROVIDE CONTROL WIRING TO DOOR OPERATOR LOCATION FOR FULLY FUNCTIONING UNIT.
9. PROVIDE JUNCTION BOX FOR FUTURE EV CHARGERS. BASIS OF DESIGN: CPF50 ONE STATION CHARGE POINT. PROVIDE (1) 1" CONDUIT TO 2ND FLOOR TELECOMM 2030.
10. PROVIDE JUNCTION BOX FOR FUTURE EV CHARGERS. PROVIDE (1) 1" DEDICATED CONDUIT TO ELECTRICAL ROOM. PROVIDE (1) 1" CONDUIT TO 2ND FLOOR TELECOMM 2030.
11. GENERATOR REMOTE ANNUNCIATOR.
12. 120VAC CONNECTION TO GARAGE VENTILATION CONTROL PANEL.
13. 120V CONNECTION TO ELEVATOR SMOKE CURTAIN REWIND MOTOR. PROVIDE ALARM CIRCUIT FROM N.O. AUXILIARY CONTACT OF SMOKE DETECTOR FOR CONNECTION TO AND ACTIVATION BY FIRE ALARM SYSTEM.
14. DUPLEX RECEPTACLE MOUNTED AT 12" BELOW CEILING FOR CONNECTION TO EMERGENCY CALL REPEATER. REFER TO LOW VOLTAGE SHEETS FOR ADDITIONAL INFORMATION.

GENERAL NOTES

A. REFER TO "MECHANICAL EQUIPMENT ELECTRICAL CONNECTION SCHEDULE" FOR ADDITIONAL EQUIPMENT CONNECTION INFORMATION.
B. REFERENCE FIRE ALARM DRAWINGS FOR ADDITIONAL DEVICES REQUIRING POWER CONNECTIONS AS WELL AS AN INTERFACE WITH FIRE ALARM SYSTEM. REFER TO MECHANICAL DRAWINGS FOR QUANITY AND LOCATION OF SMOKE DAMPERS, SMOKE-FIRE DAMPERS AND DUCT SMOKE DETECTORS. PROVIDE 120VAC CONNECTION TO SMOKE DAMPERS, FIRE/SMOKE DAMPERS AND PROVIDE WITH SMOKE DETECTOR.
C. SEE PANEL SCHEDULES AND MECHANICAL EQUIPMENT SCHEDULES FOR RELATED INFORMATION.

STATE OF MISSOURI
CHRISTOPHER I. WALLACE
NUMBER
PE-2009000254
PROFESSIONAL ENGINEER

BID SET

PROJECT TITLE

John Knox Village

MEADOWS BUILDING PHASE III

SFCS
Architecture
Engineering
Planning
Interiors

SFCS Inc. ▪ 305 South Jefferson Street
Roanoke, Virginia 24011.2003
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ARCHITECT	: DAS	CHECKED	: CIW
ENGINEER	: NAD	APPROVED	: CIW

NO.	REVISION DESCRIPTION	DATE

DRAWING TITLE

GARAGE FLOOR PLAN - AREA B - POWER

DATE: 03/13/2026
COMM. NO. 25116.00
DRAWING E2.1b

3/13/2026
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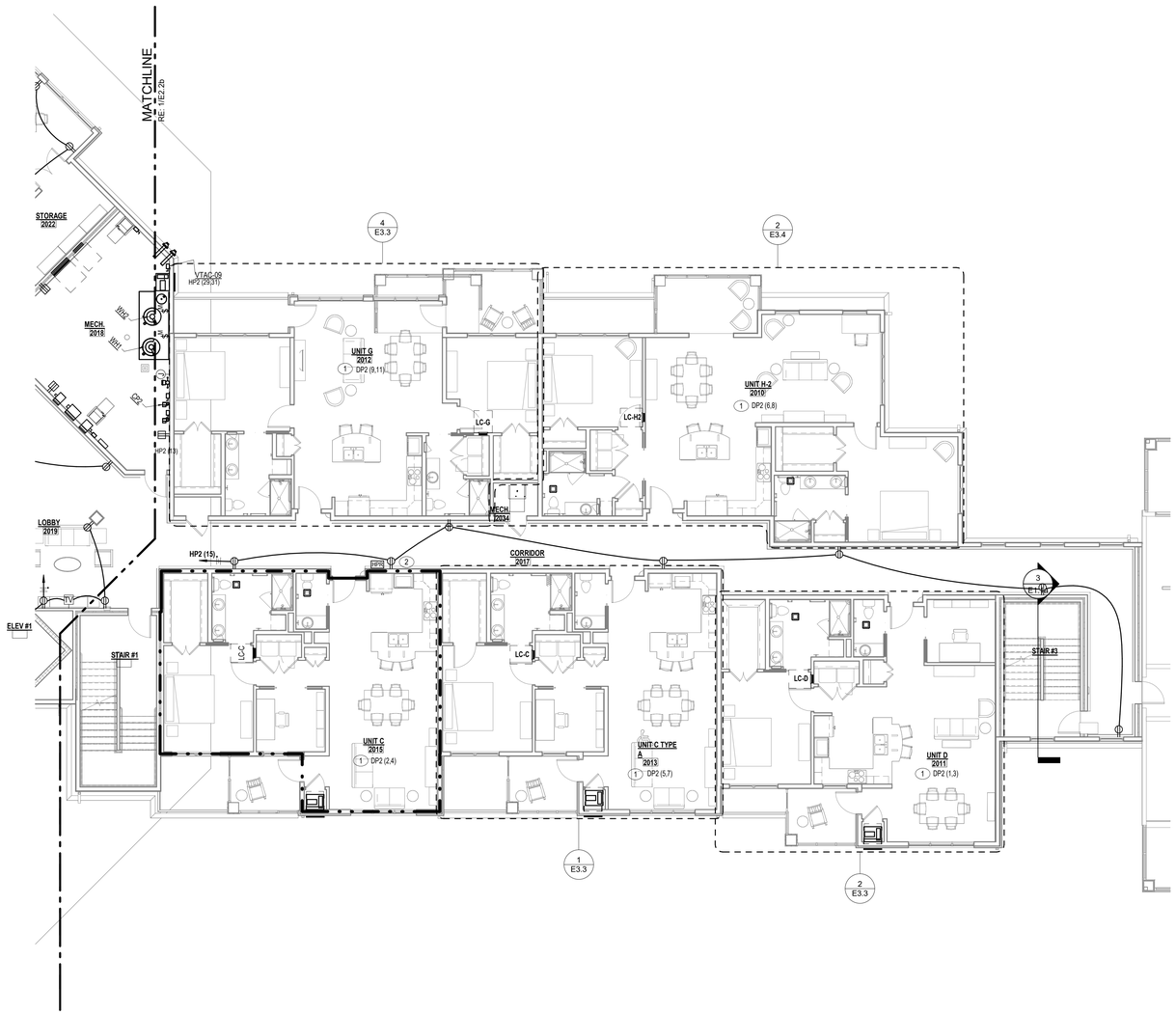
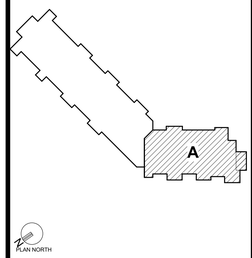


1 SECOND FLOOR PLAN - AREA A - POWER
E2.2a 1/8" = 1'-0"

KEYPLAN



PLAN NOTES

1. INDICATES PANEL/CIRCUIT FROM WHICH APARTMENT LOADCENTER IS SERVED. REFER TO ENLARGED UNIT PLANS FOR TYPICAL POWER AND LIGHTING PLANS.
2. DUPLEX RECEPTACLE MOUNTED AT 12" BELOW CEILING FOR CONNECTION TO EMERGENCY CALL REPEATER. REFER TO LOW VOLTAGE SHEETS FOR ADDITIONAL INFORMATION.

GENERAL NOTES

A. REFER TO "MECHANICAL EQUIPMENT ELECTRICAL CONNECTION SCHEDULE" FOR ADDITIONAL EQUIPMENT CONNECTION INFORMATION.
B. REFERENCE FIRE ALARM DRAWINGS FOR ADDITIONAL DEVICES REQUIRING POWER CONNECTIONS AS WELL AS AN INTERFACE WITH FIRE ALARM SYSTEM. REFER TO MECHANICAL DRAWINGS FOR QUANITY AND LOCATION OF SMOKE DAMPERS, SMOKE-FIRE DAMPERS AND DUCT SMOKE DETECTORS. PROVIDE 120VAC CONNECTION TO SMOKE DAMPERS, FIRE/SMOKE DAMPERS AND PROVIDE WITH SMOKE DETECTOR.
C. SEE PANEL SCHEDULES AND MECHANICAL EQUIPMENT SCHEDULES FOR RELATED INFORMATION.

BID SET

PROJECT TITLE

John Knox Village

MEADOWS BUILDING PHASE III

SFCS Architecture Engineering Planning Interiors
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ENGINEER : NAD	APPROVED : CIW

NO.	REVISION DESCRIPTION	DATE

DRAWING TITLE

SECOND FLOOR PLAN - AREA A - POWER

PLAN NORTH

DATE: 03/13/2026

COMM. NO. 25116.00

DRAWING E2.2a

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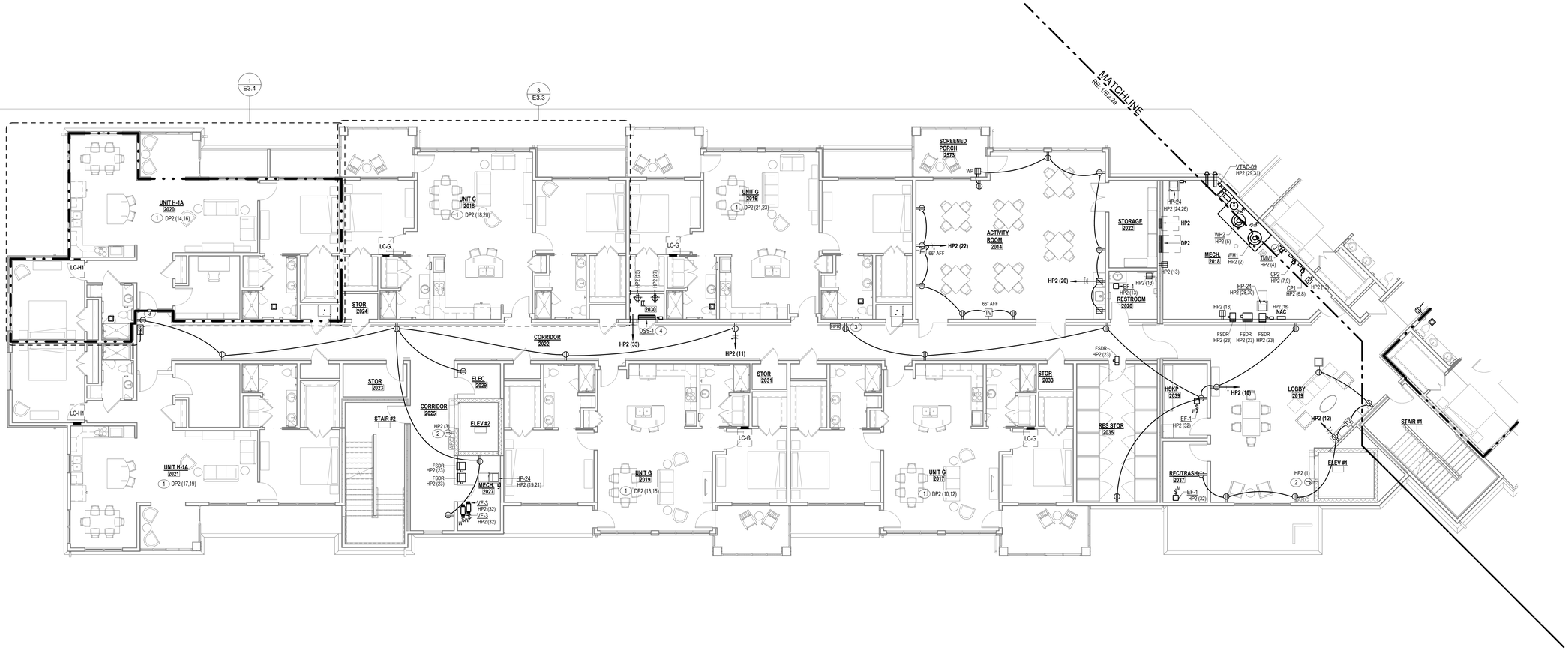
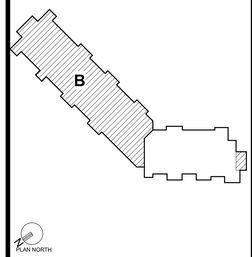


1 E2.2b SECOND FLOOR PLAN - AREA B - POWER

1/8" = 1'-0"

KEYPLAN



PLAN NOTES

1. INDICATES PANEL/CIRCUIT FROM WHICH APARTMENT LOADCENTER IS SERVED. REFER TO ENLARGED UNIT PLANS FOR TYPICAL POWER AND LIGHTING PLANS.
2. 120V CONNECTION TO ELEVATOR SMOKE CURTAIN REWIND MOTOR. PROVIDE ALARM CIRCUIT FROM N.O. AUXILIARY CONTACT OF SMOKE DETECTOR FOR CONNECTION TO AND ACTIVATION BY FIRE ALARM SYSTEM.
3. DUPLEX RECEPTACLE MOUNTED AT 12" BELOW CEILING FOR CONNECTION TO EMERGENCY CALL REPEATER. REFER TO LOW VOLTAGE SHEETS FOR ADDITIONAL INFORMATION.
4. REFER TO SHEET E2.6b - ROOF PLAN ELECTRICAL AND SHEET E5.5 - MECHANICAL EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION REGARDING DSS-1.

GENERAL NOTES

A. REFER TO "MECHANICAL EQUIPMENT ELECTRICAL CONNECTION SCHEDULE" FOR ADDITIONAL EQUIPMENT CONNECTION INFORMATION.
B. REFERENCE FIRE ALARM DRAWINGS FOR ADDITIONAL DEVICES REQUIRING POWER CONNECTIONS AS WELL AS AN INTERFACE WITH FIRE ALARM SYSTEM. REFER TO MECHANICAL DRAWINGS FOR QUANITY AND LOCATION OF SMOKE DAMPERS, SMOKE-FIRE DAMPERS AND DUCT SMOKE DETECTORS. PROVIDE 120VAC CONNECTION TO SMOKE DAMPERS, FIRE/SMOKE DAMPERS AND PROVIDE WITH SMOKE DETECTOR.
C. SEE PANEL SCHEDULES AND MECHANICAL EQUIPMENT SCHEDULES FOR RELATED INFORMATION.

STATE OF MISSOURI
CHRISTOPHER WIALLACE
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PE-2009009754
PROFESSIONAL ENGINEER

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ARCHITECT	: DAS	CHECKED	: CIW
ENGINEER	: NAD	APPROVED	: CIW

NO.	REVISION DESCRIPTION	DATE

DRAWING TITLE

SECOND FLOOR PLAN - AREA B - POWER

DATE: 03/13/2026

COMM. NO. 25116.00

DRAWING E2.2b

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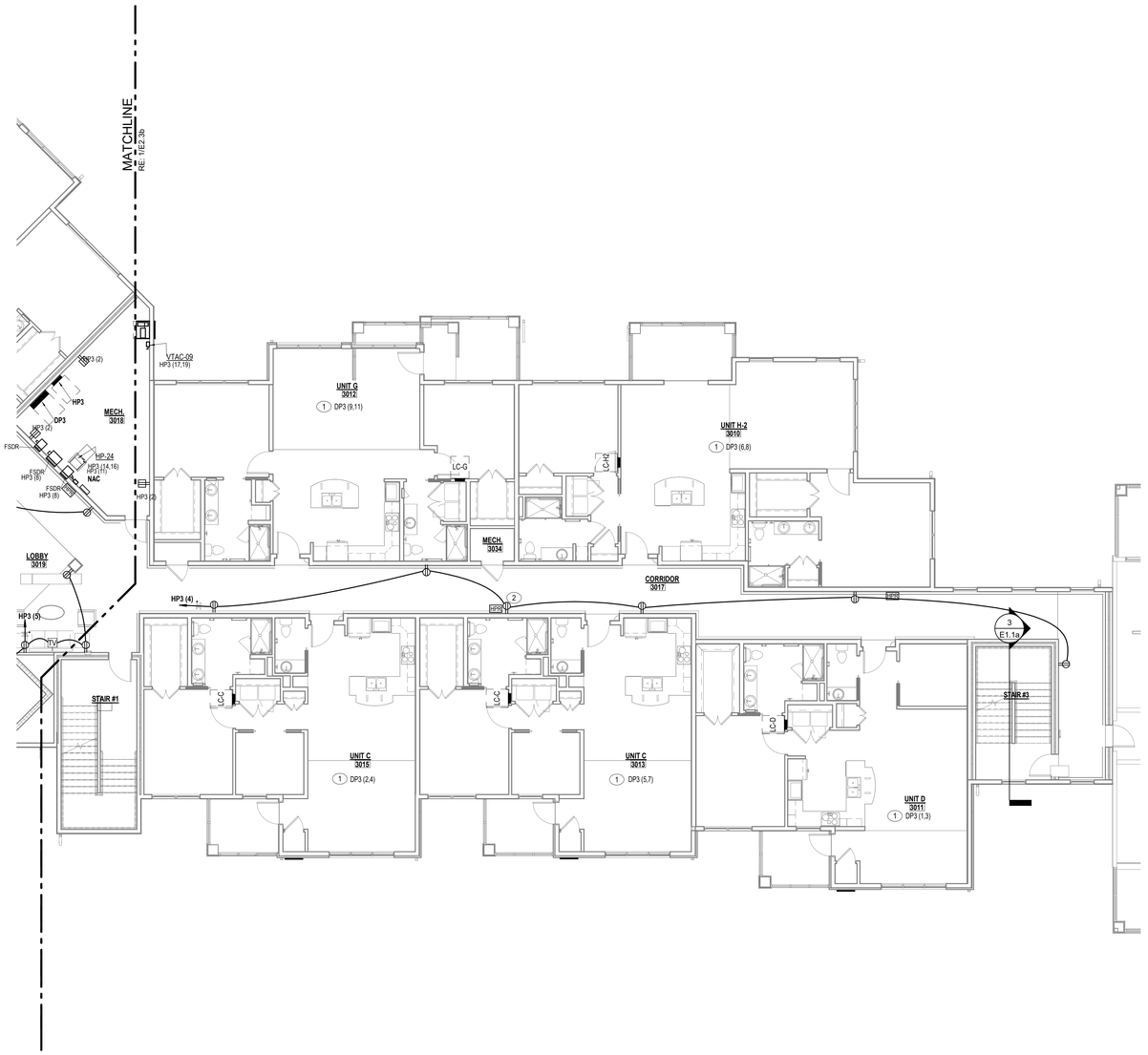
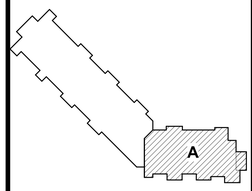


1 THIRD FLOOR PLAN - AREA A - POWER
E2.3a 1/8" = 1'-0"

PLAN NORTH

KEYPLAN



PLAN NORTH

PLAN NOTES

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C. SEE PANEL SCHEDULES AND MECHANICAL EQUIPMENT SCHEDULES FOR RELATED INFORMATION.

STATE OF MISSOURI
CHRISTOPHER WALLACE WILLIAMS
NUMBER
PE-2026000254
PROFESSIONAL ENGINEER

BID SET

PROJECT TITLE

John Knox Village

MEADOWS BUILDING PHASE III

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ARCHITECT	: DAS	CHECKED	: CIW
ENGINEER	: NAD	APPROVED	: CIW

NO.	REVISION DESCRIPTION	DATE

DRAWING TITLE

THIRD FLOOR PLAN - AREA A - POWER

DATE: 03/13/2026
COMM. NO. 25116.00
DRAWING E2.3a

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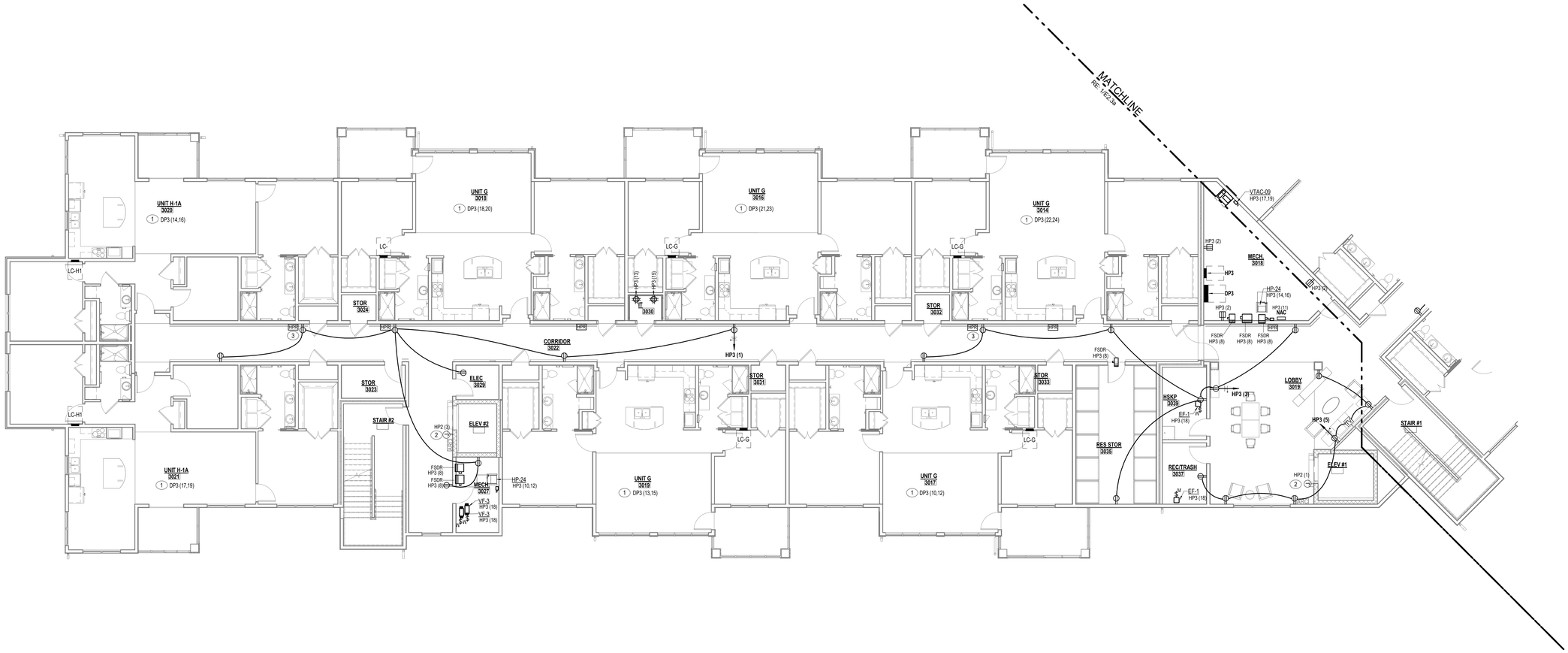
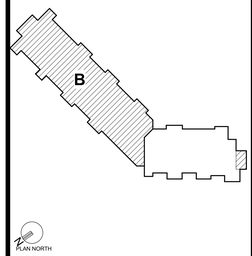


1 THIRD FLOOR PLAN - AREA B - POWER
E2.3b 1/8" = 1'-0"

KEYPLAN



PLAN NOTES

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C. SEE PANEL SCHEDULES AND MECHANICAL EQUIPMENT SCHEDULES FOR RELATED INFORMATION.

STATE OF MISSOURI
CHRISTOPHER WALLACE
NUMBER PE-2025009254
02-22-2025
PROFESSIONAL ENGINEER

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PROJECT TITLE

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MEADOWS BUILDING PHASE III

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ARCHITECT	: DAS	CHECKED	: CIW
ENGINEER	: NAD	APPROVED	: CIW

NO.	REVISION DESCRIPTION	DATE

DRAWING TITLE
THIRD FLOOR PLAN - AREA B - POWER

DATE: 03/13/2026
COMM. NO. 25116.00
DRAWING E2.3b

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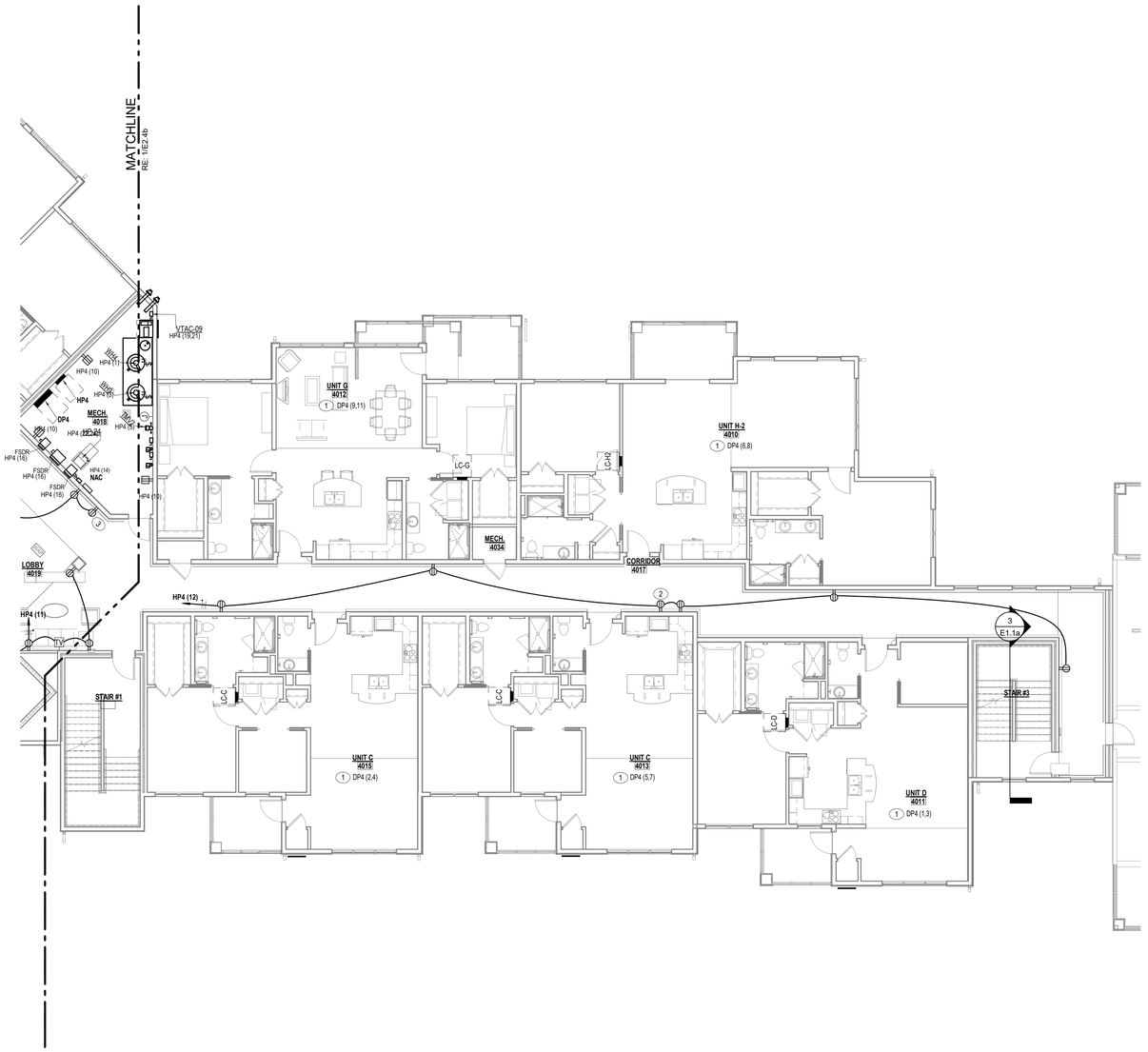
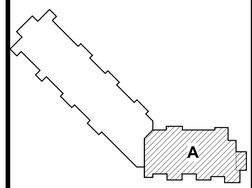


1 FOURTH FLOOR PLAN - AREA A - POWER
E2.4a 1/8" = 1'-0"

PLAN NORTH

KEYPLAN



PLAN NORTH

PLAN NOTES

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C. SEE PANEL SCHEDULES AND MECHANICAL EQUIPMENT SCHEDULES FOR RELATED INFORMATION.

STATE OF MISSOURI
CHRISTOPHER WALKER WILLIAMS
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PROFESSIONAL ENGINEER

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PROJECT TITLE

John Knox Village

MEADOWS BUILDING PHASE III

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ARCHITECT	: DAS	CHECKED	: CIW
ENGINEER	: NAD	APPROVED	: CIW

NO.	REVISION DESCRIPTION	DATE

DRAWING TITLE

FOURTH FLOOR PLAN - AREA A - POWER

DATE: 03/13/2026
COMM. NO. 25116.00
DRAWING E2.4a

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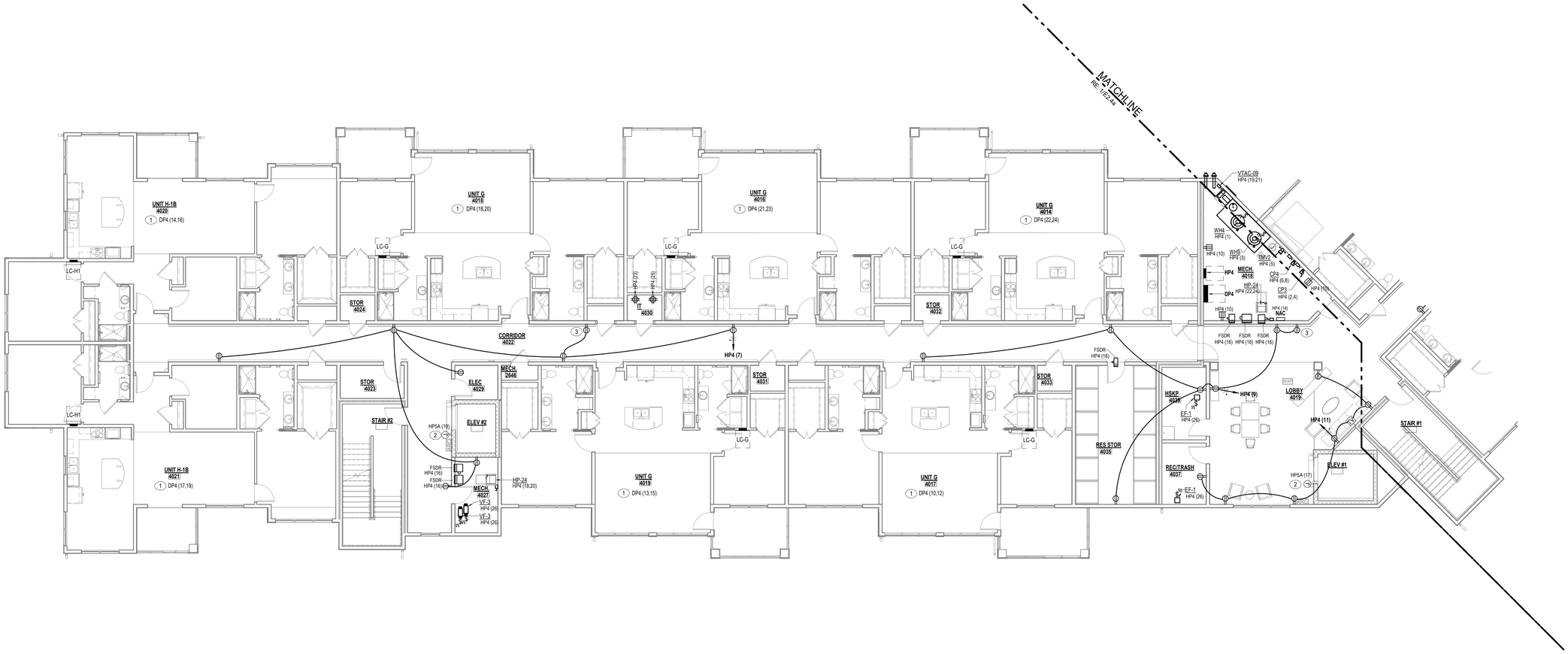
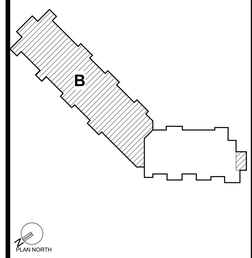


1 FOURTH FLOOR PLAN - AREA B - POWER
E2.4b 1/8" = 1'-0"

KEYPLAN



PLAN NOTES

1. INDICATES PANEL/CIRCUIT FROM WHICH APARTMENT LOADCENTER IS SERVED. REFER TO ENLARGED UNIT PLANS FOR TYPICAL POWER AND LIGHTING PLANS.
2. 120V CONNECTION TO ELEVATOR SMOKE CURTAIN REWIND MOTOR. PROVIDE ALARM CIRCUIT FROM N.O. AUXILIARY CONTACT OF SMOKE DETECTOR FOR CONNECTION TO AND ACTIVATION BY FIRE ALARM SYSTEM.
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GENERAL NOTES

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B. REFERENCE FIRE ALARM DRAWINGS FOR ADDITIONAL DEVICES REQUIRING POWER CONNECTIONS AS WELL AS AN INTERFACE WITH FIRE ALARM SYSTEM. REFER TO MECHANICAL DRAWINGS FOR QUANITY AND LOCATION OF SMOKE DAMPERS, SMOKE-FIRE DAMPERS AND DUCT SMOKE DETECTORS. PROVIDE 120VAC CONNECTION TO SMOKE DAMPERS, FIRE/SMOKE DAMPERS AND PROVIDE WITH SMOKE DETECTOR.
C. SEE PANEL SCHEDULES AND MECHANICAL EQUIPMENT SCHEDULES FOR RELATED INFORMATION.

STATE OF MISSOURI
CHRISTOPHER WALLACE
NUMBER
PE-2009009254
PROFESSIONAL ENGINEER

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PROJECT TITLE

John Knox Village

MEADOWS BUILDING PHASE III

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DESIGNER : DAS	DRAWN : JDM
ARCHITECT : DAS	CHECKED : CIW
ENGINEER : NAD	APPROVED : CIW

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DRAWING TITLE

FOURTH FLOOR PLAN - AREA B - POWER

DATE: 03/13/2026
COMM. NO. 25116.00
DRAWING E2.4b

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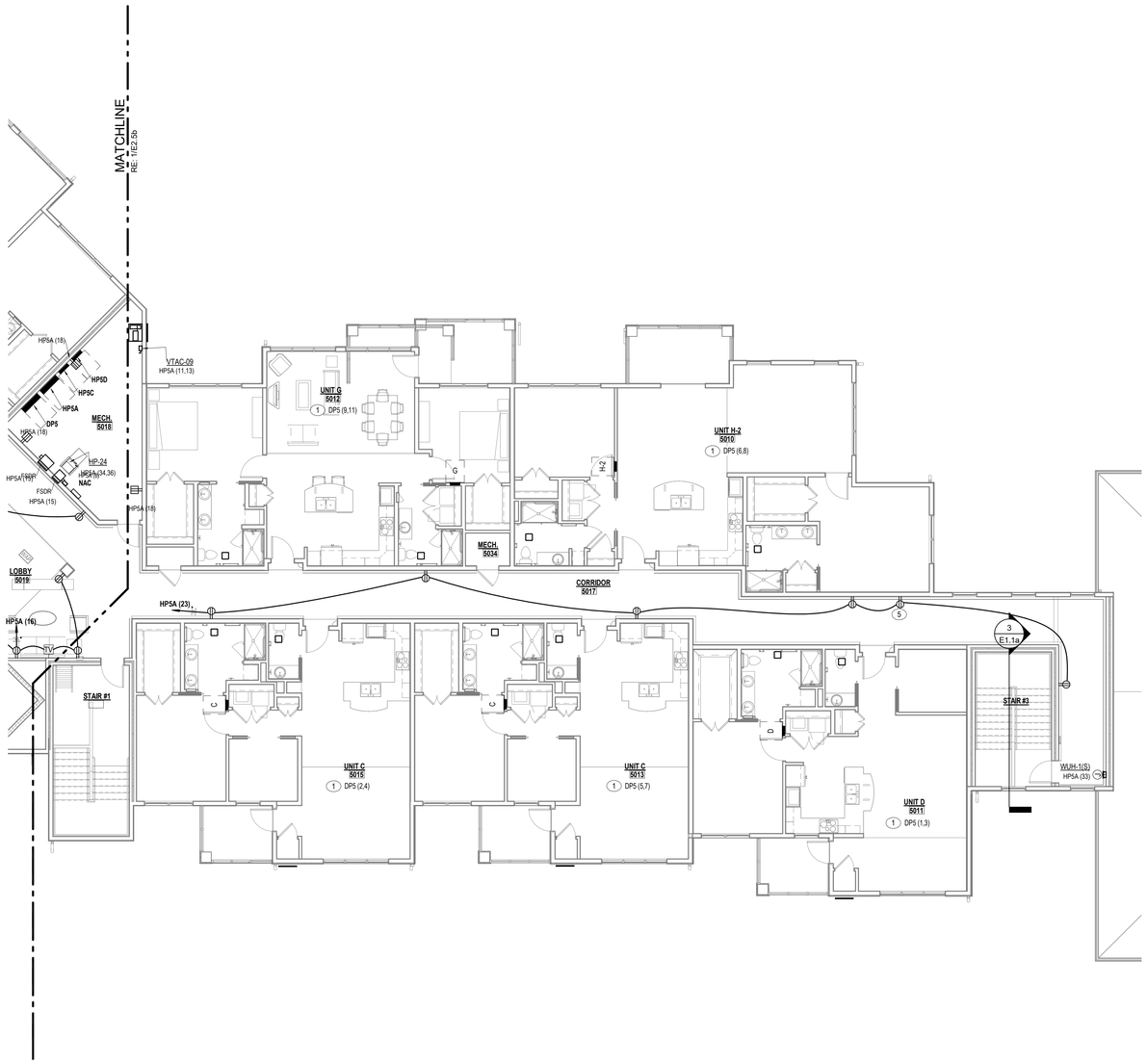
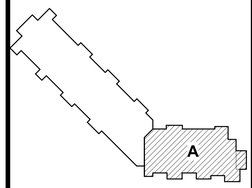


1 E2.5a FIFTH FLOOR PLAN - AREA A - POWER

1/8" = 1'-0"

PLAN NORTH

KEYPLAN



PLAN NORTH

PLAN NOTES

1. INDICATES PANEL/CIRCUIT FROM WHICH APARTMENT LOADCENTER IS SERVED. REFER TO ENLARGED UNIT PLANS FOR TYPICAL POWER AND LIGHTING PLANS.
2. 3P, 100 AMP, 240V SHUNT TRIP DISCONNECT SWITCH WITH LOCK-OUT DEVICE FOR ELEVATOR CONTROLLER DISCONNECT. PROVIDE EQUAL TO LITTELFUSE SHUNT-TRIP DISCONNECT SWITCH MODEL #LPS1 T20 SERIES, WITH FUSES SIZED PER THE ELEVATOR POWER-DATA SHEETS. PROVIDE WITH SHUNT TRIP OPERATOR AND CONNECT TO ELEVATOR HEAT DETECTOR. EXTEND FEEDER FROM LOAD SIDE OF DISCONNECT AND TERMINATE ON ELEVATOR CONTROLLER. VERIFY EXACT LOCATION OF CONTROLLER AND OVERCURRENT PROTECTIVE DEVICE REQUIRED WITH ELEVATOR MANUFACTURER PRIOR TO ORDERING.
3. 1/3G/240/1/F WITH SET OF (1) 20AMP, 240V, TIME DELAY FUSE FOR CONNECTION TO ELEVATOR LIGHTS AND CONTROLS. E.C. SHALL VERIFY EXACT REQUIREMENTS WITH ELEVATOR SUPPLIER PRIOR TO ROUGH-IN.
4. 120V CONNECTION TO ELEVATOR SMOKE CURTAIN REWIND MOTOR. PROVIDE ALARM CIRCUIT FROM N.O. AUXILIARY CONTACT OF SMOKE DETECTOR FOR CONNECTION TO AND ACTIVATION BY FIRE ALARM SYSTEM.
5. DUPLEX RECEPTACLE MOUNTED AT 12" BELOW CEILING FOR CONNECTION TO EMERGENCY CALL REPEATER. REFER TO LOW VOLTAGE SHEETS FOR ADDITIONAL INFORMATION.

GENERAL NOTES

A. REFER TO "MECHANICAL EQUIPMENT ELECTRICAL CONNECTION SCHEDULE" FOR ADDITIONAL EQUIPMENT CONNECTION INFORMATION.
B. REFERENCE FIRE ALARM DRAWINGS FOR ADDITIONAL DEVICES REQUIRING POWER CONNECTIONS AS WELL AS AN INTERFACE WITH FIRE ALARM SYSTEM. REFER TO MECHANICAL DRAWINGS FOR QUANITY AND LOCATION OF SMOKE DAMPERS, SMOKE-FIRE DAMPERS AND DUCT SMOKE DETECTORS. PROVIDE 120VAC CONNECTION TO SMOKE DAMPERS, FIRE/SMOKE DAMPERS AND PROVIDE WITH SMOKE DETECTOR.
C. SEE PANEL SCHEDULES AND MECHANICAL EQUIPMENT SCHEDULES FOR RELATED INFORMATION.

STATE OF MISSOURI
CHRISTOPHER IAN WILLIAMS
NUMBER PE-2009008254
PROFESSIONAL ENGINEER

BID SET

PROJECT TITLE

John Knox Village

MEADOWS BUILDING PHASE III

SFCS Architecture Engineering Planning Interiors
SFCS Inc. ▪ 305 South Jefferson Street
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540.344.6664 ▪ Fax 540.343.6925
www.sfcs.com

DESIGNER	: DAS	DRAWN	: JDM
ARCHITECT	: DAS	CHECKED	: CIW
ENGINEER	: NAD	APPROVED	: CIW

NO.	REVISION DESCRIPTION	DATE

DRAWING TITLE

FIFTH FLOOR PLAN - AREA A - POWER

DATE:	03/13/2026	DRAWING	E2.5a
COMM. NO.	25116.00		

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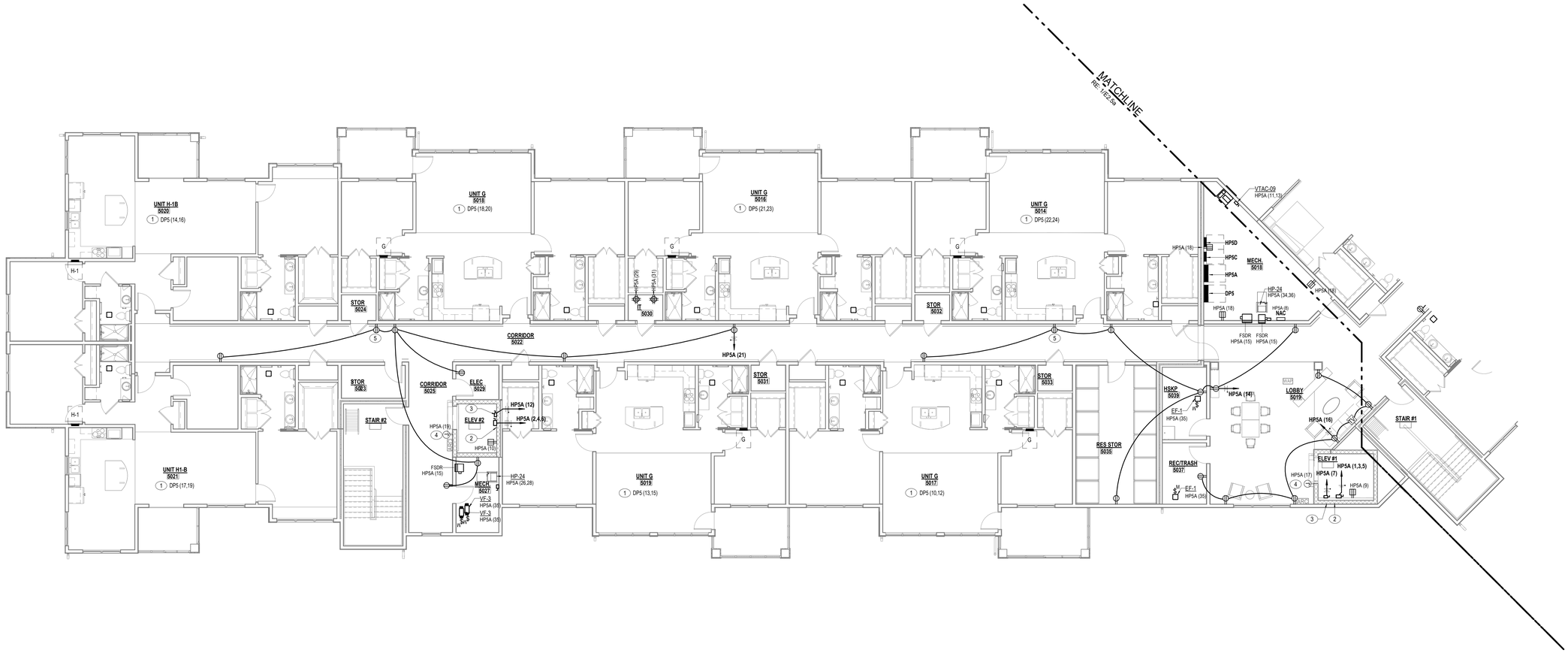
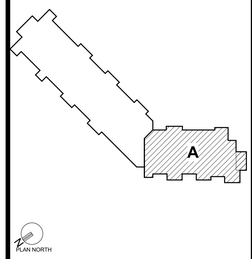


1 FIFTH FLOOR PLAN - AREA B - POWER
E2.5b 1/8" = 1'-0"

KEYPLAN



PLAN NOTES

1. INDICATES PANEL/CIRCUIT FROM WHICH APARTMENT LOADCENTER IS SERVED. REFER TO ENLARGED UNIT PLANS FOR TYPICAL POWER AND LIGHTING PLANS.
2. 3P, 100 AMP, 240V SHUNT TRIP DISCONNECT SWITCH WITH LOCK-OUT DEVICE FOR ELEVATOR CONTROLLER DISCONNECT. PROVIDE EQUAL TO LITTELFUSE SHUNT-TRIP DISCONNECT SWITCH MODEL #LPS1 T20 SERIES, WITH FUSES SIZED PER THE ELEVATOR POWER-DATA SHEETS. PROVIDE WITH SHUNT TRIP OPERATOR AND CONNECT TO ELEVATOR HEAT DETECTOR. EXTEND FEEDER FROM LOAD SIDE OF DISCONNECT AND TERMINATE ON ELEVATOR CONTROLLER. VERIFY EXACT LOCATION OF CONTROLLER AND OVERCURRENT PROTECTIVE DEVICE REQUIRED WITH ELEVATOR MANUFACTURER PRIOR TO ORDERING.
3. 1/3/240/1/F WITH SET OF (1) 20AMP, 240V, TIME DELAY FUSE FOR CONNECTION TO ELEVATOR LIGHTS AND CONTROLS. E.C. SHALL VERIFY EXACT REQUIREMENTS WITH ELEVATOR SUPPLIER PRIOR TO ROUGH-IN.
4. 120V CONNECTION TO ELEVATOR SMOKE CURTAIN REWIND MOTOR. PROVIDE ALARM CIRCUIT FROM N.O. AUXILIARY CONTACT OF SMOKE DETECTOR FOR CONNECTION TO AND ACTIVATION BY FIRE ALARM SYSTEM.
5. DUPLEX RECEPTACLE MOUNTED AT 12" BELOW CEILING FOR CONNECTION TO EMERGENCY CALL REPEATER. REFER TO LOW VOLTAGE SHEETS FOR ADDITIONAL INFORMATION.

GENERAL NOTES

A. REFER TO "MECHANICAL EQUIPMENT ELECTRICAL CONNECTION SCHEDULE" FOR ADDITIONAL EQUIPMENT CONNECTION INFORMATION.
B. REFERENCE FIRE ALARM DRAWINGS FOR ADDITIONAL DEVICES REQUIRING POWER CONNECTIONS AS WELL AS AN INTERFACE WITH FIRE ALARM SYSTEM. REFER TO MECHANICAL DRAWINGS FOR QUANITY AND LOCATION OF SMOKE DAMPERS, SMOKE-FIRE DAMPERS AND DUCT SMOKE DETECTORS. PROVIDE 120VAC CONNECTION TO SMOKE DAMPERS, FIRE/SMOKE DAMPERS AND PROVIDE WITH SMOKE DETECTOR.
C. SEE PANEL SCHEDULES AND MECHANICAL EQUIPMENT SCHEDULES FOR RELATED INFORMATION.

CHRISTOPHER NALLEY
NUMBER PE-2026000254
03-12-2026
PROFESSIONAL ENGINEER
STATE OF MISSOURI

BID SET

PROJECT TITLE

John Knox Village

MEADOWS BUILDING PHASE III

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ARCHITECT	: DAS	CHECKED	: CIW
ENGINEER	: NAD	APPROVED	: CIW

NO.	REVISION DESCRIPTION	DATE

DRAWING TITLE

FIFTH FLOOR PLAN - AREA B - POWER

DATE: 03/13/2026

COMM. NO. 25116.00

DRAWING E2.5b

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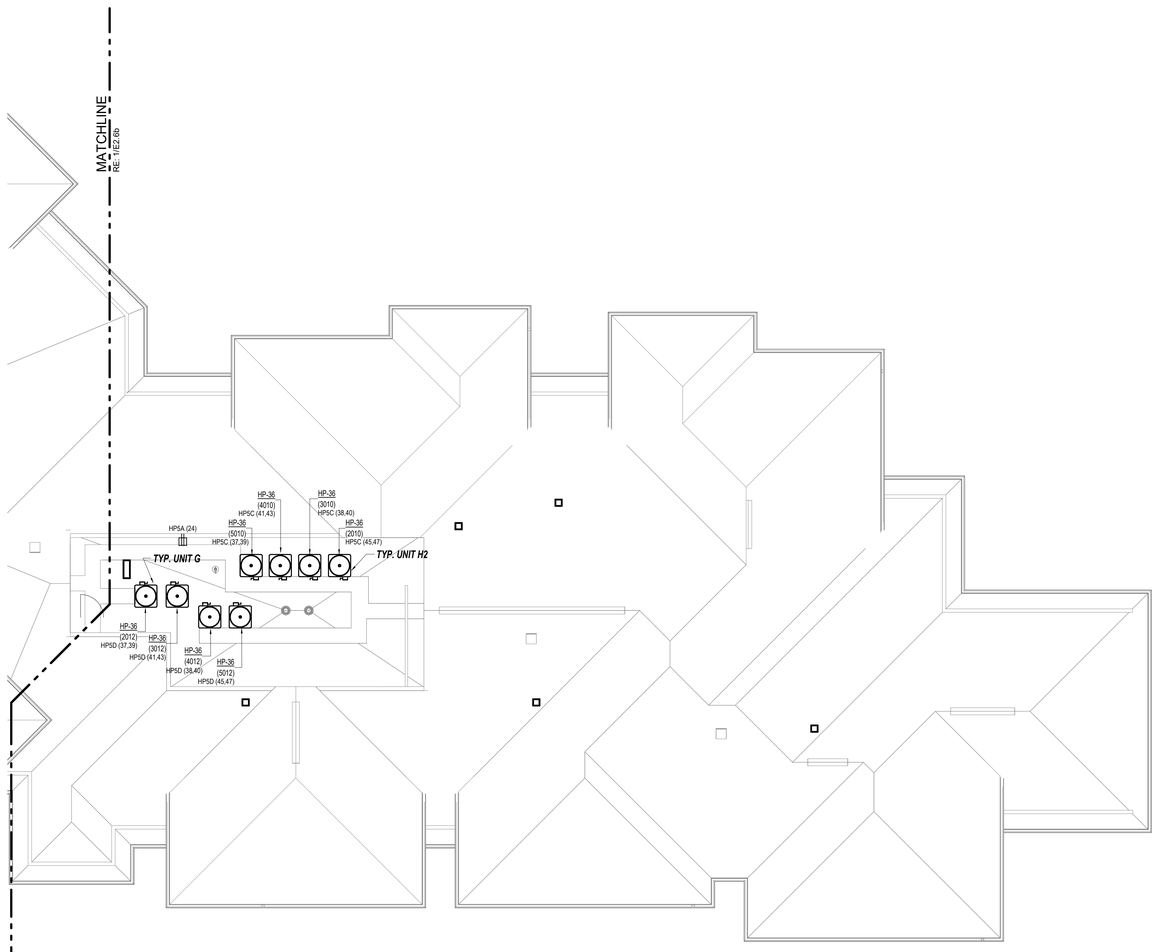
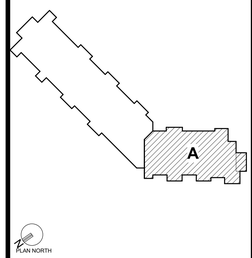


1 E2.6a ROOF PLAN - AREA A - ELECTRICAL

1/8" = 1'-0"

PLAN NORTH

KEYPLAN



PLAN NOTES

GENERAL NOTES

A. LOCATIONS OF ELECTRICAL CONNECTIONS AND LOCAL DISCONNECTS SHALL BE COORDINATED WITH MECHANICAL AND PLUMBING CONTRACTORS TO ENSURE ACCESS AND WORKING CLEARANCE IS MAINTAINED PER NEC. NOTIFY OTHER TRADES OF REQUIRED CLEARANCE AREAS TO AVOID ROUTING OF OTHER SYSTEMS IN THESE AREAS. INSTALL DISCONNECTS INDEPENDENTLY FROM MECHANICAL UNITS ON STRUT CHANNEL FRAMING SUPPORT WHERE POSSIBLE. IF MOUNTED TO MECHANICAL UNITS, DO NOT INSTALL ELECTRICAL EQUIPMENT OVER EQUIPMENT NAMEPLATES OR ACCESS PANELS.

B. PROVIDE MAINTENANCE RECEPTACLE WITHIN 25 FT OF EACH MECHANICAL UNIT AS REQUIRED BY NEC. COORDINATE INSTALLATION LOCATIONS WITH FINAL EQUIPMENT LAYOUT PROVIDE BY MECHANICAL CONTRACTOR.

C. CONDUIT FOR ROOF MOUNTED EQUIPMENT SHALL BE EMT. ROUTE IN CEILING SPACE BELOW ROOF DECK UNO.

D. UTILIZE LIQUIDTIGHT FLEXIBLE METAL CONDUIT (LFMC) WITH WATERTIGHT CONNECTORS. MAX OF 6'-0" IN LENGTH. IF DISCONNECT IS FURTHER THAN 6'-0" FROM MECHANICAL EQUIPMENT USE EMT CONDUIT, THEN EXTEND A MAXIMUM OF 6'-0" OF LFMC TO EQUIPMENT LOCATION. PROPERLY SUPPORT ALL EMT CONDUIT AND LFMC.

E. ANY CONDUIT RUNS ACROSS EXTERIOR ROOF SURFACES SHALL BE MOUNTED ON EATON DURA-BLOCK (OR EQUAL) TYPE SUPPORTS. MAXIMUM CENTER TO CENTER DISTANCE TO BE 10'-0".

F. COORDINATE WITH ARCHITECTURAL AND STRUCTURAL PLANS FOR ROOF PENETRATIONS. SEAL PENETRATIONS PER ROOF MANUFACTURER'S RECOMMENDATIONS.

G. ANY ADHESIVES USED ON ROOF SURFACES MUST BE APPROVED BY ROOF MANUFACTURER. DO NOT USE ANY PRODUCTS OR METHODS THAT VOID OR REDUCES ROOF WARRANTIES.

H. WHERE RACEWAY OR CONDUCTORS ARE INSTALLED EXPOSED ON ROOF, DERATE AMPACITY OF CONDUCTORS IN ACCORDANCE WITH NEC.

I. PROVIDE PHOTOCELLS FOR CONTROL OF EXTERIOR NORMAL LIGHTS AND EXTERIOR EM EGRESS LIGHTS. MOUNT WITH NORTH SKY EXPOSURE. REFER TO LIGHTING CONTROL DETAIL AND LIGHTING CONTROL DRAWINGS FOR ADDITIONAL INFORMATION.

STATE OF MISSOURI
CHRISTOPHER WALLACE MILLER
NUMBER
PE-2026000254
2/27/26
PROFESSIONAL ENGINEER

BID SET

PROJECT TITLE

John Knox Village

MEADOWS BUILDING PHASE III

SFCS Architecture Engineering Planning Interiors

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540.344.6664 ▪ Fax 540.343.6925
www.sfcs.com

DESIGNER	: DAS	DRAWN	: JDM
ARCHITECT	: DAS	CHECKED	: CIW
ENGINEER	: NAD	APPROVED	: CIW

NO.	REVISION DESCRIPTION	DATE

DRAWING TITLE

ROOF PLAN - AREA A - ELECTRICAL

DATE: 03/13/2026

COMM. NO. 25116.00

DRAWING E2.6a

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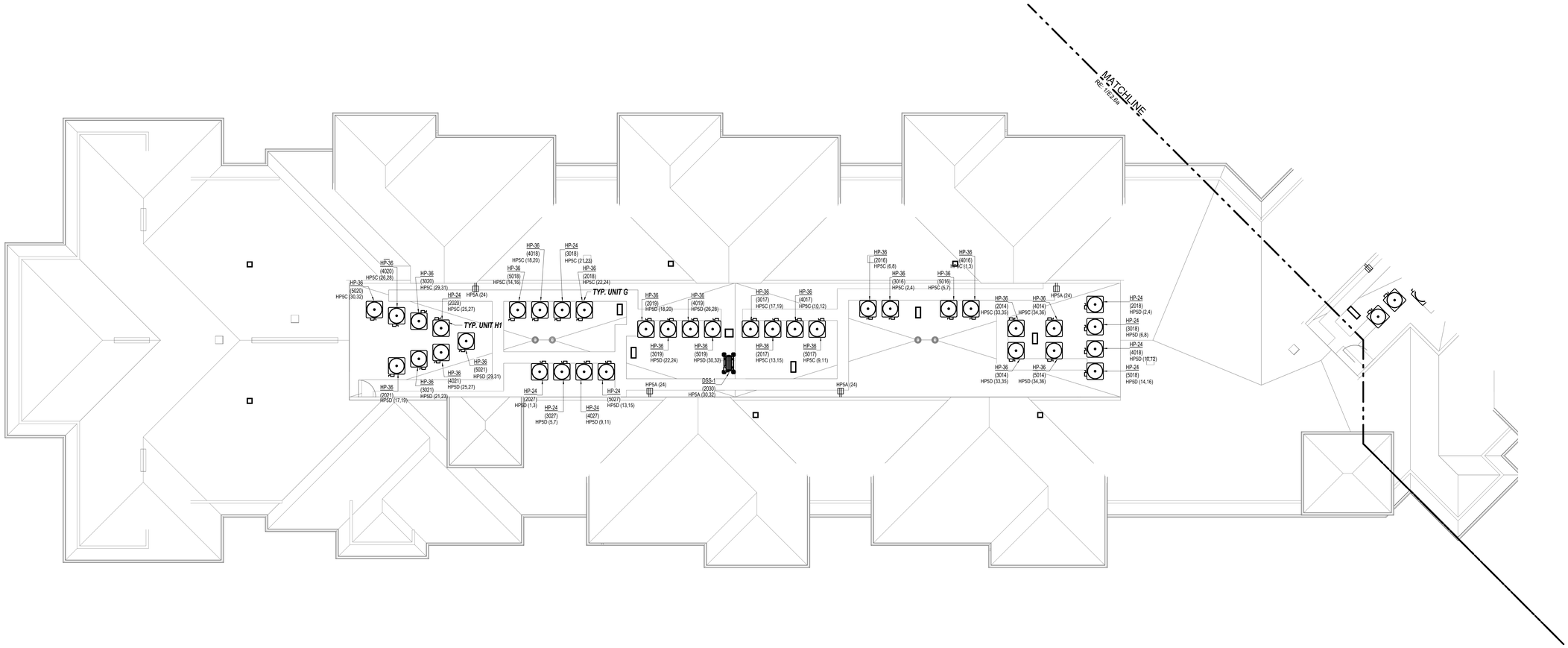
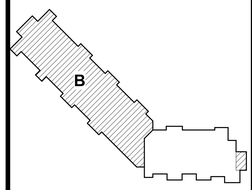


1 E2.6b ROOF PLAN - AREA B - ELECTRICAL

1/8" = 1'-0"

PLAN NORTH

KEYPLAN



PLAN NORTH

PLAN NOTES

GENERAL NOTES

A. LOCATIONS OF ELECTRICAL CONNECTIONS AND LOCAL DISCONNECTS SHALL BE COORDINATED WITH MECHANICAL AND PLUMBING CONTRACTORS TO ENSURE ACCESS AND WORKING CLEARANCE IS MAINTAINED PER NEC. NOTIFY OTHER TRADES OF REQUIRED CLEARANCE AREAS TO AVOID ROUTING OF OTHER SYSTEMS IN THESE AREAS. INSTALL DISCONNECTS INDEPENDENTLY FROM MECHANICAL UNITS ON STRUT CHANNEL FRAMING SUPPORT WHERE POSSIBLE. IF MOUNTED TO MECHANICAL UNITS, DO NOT INSTALL ELECTRICAL EQUIPMENT OVER EQUIPMENT NAMEPLATES OR ACCESS PANELS.
B. PROVIDE MAINTENANCE RECEPTACLE WITHIN 25 FT OF EACH MECHANICAL UNIT AS REQUIRED BY NEC. COORDINATE INSTALLATION LOCATIONS WITH FINAL EQUIPMENT LAYOUT PROVIDE BY MECHANICAL CONTRACTOR.
C. CONDUIT FOR ROOF MOUNTED EQUIPMENT SHALL BE EMT. ROUTE IN CEILING SPACE BELOW ROOF DECK UNO.
D. UTILIZE LIQUIDTIGHT FLEXIBLE METAL CONDUIT (LFMC) WITH WATERTIGHT CONNECTORS. MAX OF 6'-0" IN LENGTH. IF DISCONNECT IS FURTHER THAN 6'-0" FROM MECHANICAL EQUIPMENT USE EMT CONDUIT, THEN EXTEND A MAXIMUM OF 6'-0" OF LFMC TO EQUIPMENT LOCATION. PROPERLY SUPPORT ALL EMT CONDUIT AND LFMC.
E. ANY CONDUIT RUNS ACROSS EXTERIOR ROOF SURFACES SHALL BE MOUNTED ON EATON DURA-BLOCK (OR EQUAL) TYPE SUPPORTS. MAXIMUM CENTER TO CENTER DISTANCE TO BE 10'-0".
F. COORDINATE WITH ARCHITECTURAL AND STRUCTURAL PLANS FOR ROOF PENETRATIONS. SEAL PENETRATIONS PER ROOF MANUFACTURER'S RECOMMENDATIONS.
G. ANY ADHESIVES USED ON ROOF SURFACES MUST BE APPROVED BY ROOF MANUFACTURER. DO NOT USE ANY PRODUCTS OR METHODS THAT VOID OR REDUCES ROOF WARRANTIES.
H. WHERE RACEWAY OR CONDUCTORS ARE INSTALLED EXPOSED ON ROOF, DERATE AMPACITY OF CONDUCTORS IN ACCORDANCE WITH NEC.
I. PROVIDE PHOTOCELLS FOR CONTROL OF EXTERIOR NORMAL LIGHTS AND EXTERIOR EM EGRESS LIGHTS. MOUNT WITH NORTH SKY EXPOSURE. REFER TO LIGHTING CONTROL DETAIL AND LIGHTING CONTROL DRAWINGS FOR ADDITIONAL INFORMATION.

STATE OF MISSOURI
CHRISTOPHER I. WALLACE
NUMBER
PE-2009000254
PROFESSIONAL ENGINEER

BID SET

PROJECT TITLE

John Knox Village

MEADOWS BUILDING PHASE III

SFCS Architecture Engineering Planning Interiors
SFCS Inc. ▪ 305 South Jefferson Street
Roanoke, Virginia 24011.2003
540.344.6664 ▪ Fax 540.343.6925
www.sfcs.com

DESIGNER : DAS	DRAWN : JDM
ARCHITECT : DAS	CHECKED : CIW
ENGINEER : NAD	APPROVED : CIW

NO.	REVISION DESCRIPTION	DATE

DRAWING TITLE

ROOF PLAN - AREA B - ELECTRICAL

DATE: 03/13/2026

COMM. NO. 25116.00

DRAWING E2.6b

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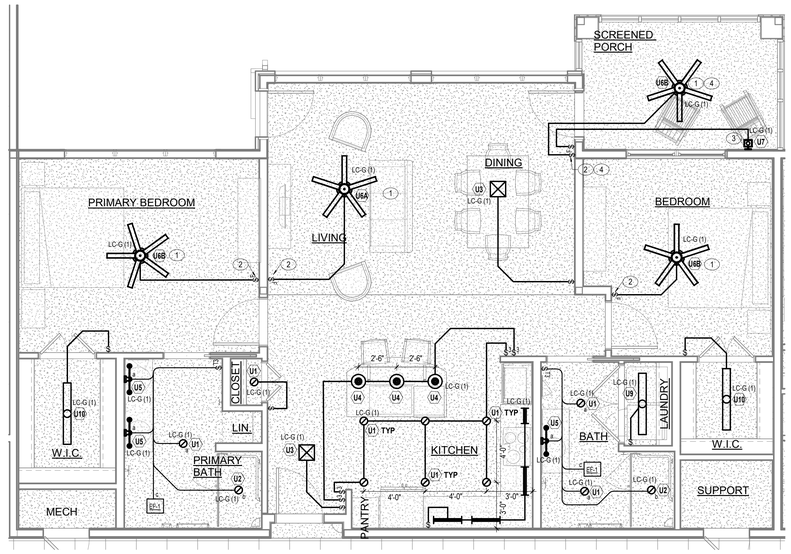
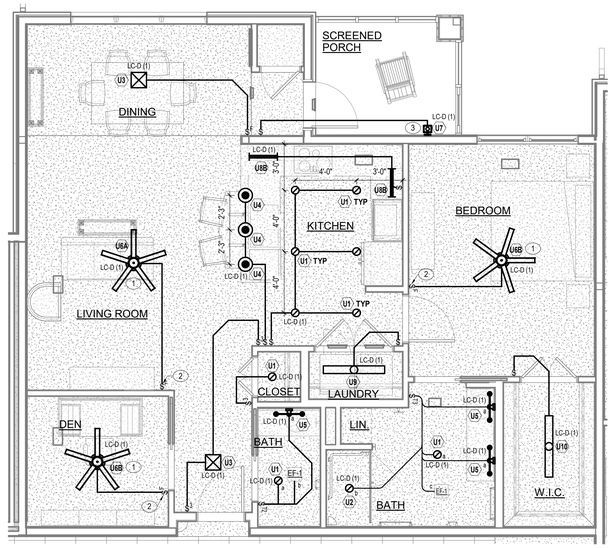


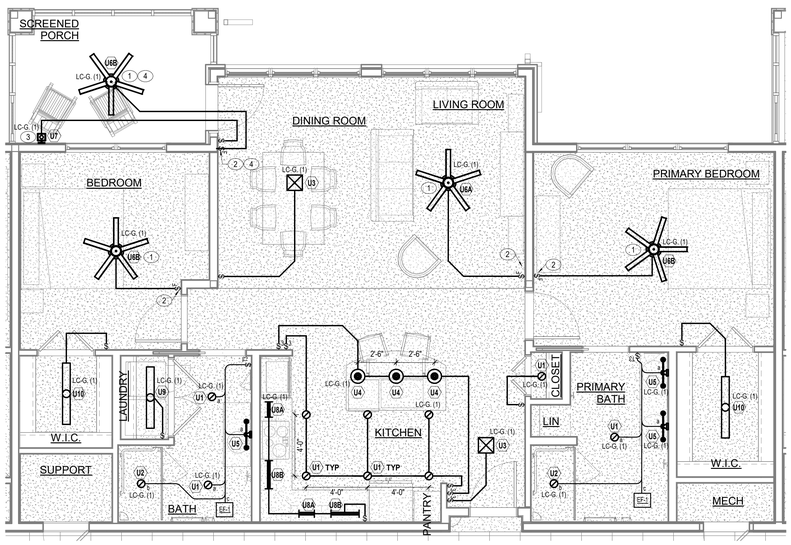
4 E3.1 UNIT G - THE BROOKSIDE (MIRRORED) - LIGHTING

1/4" = 1'-0"



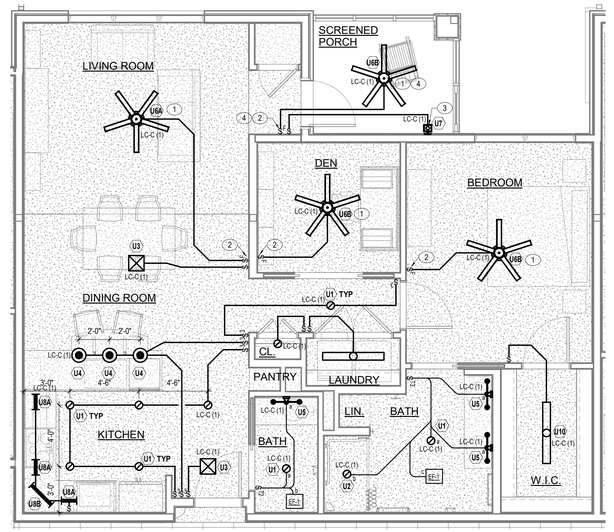
2 E3.1 UNIT D - THE STARLIGHT - LIGHTING

1/4" = 1'-0"



3 E3.1 UNIT G - THE BROOKSIDE - LIGHTING

1/4" = 1'-0"



1 E3.1 UNIT C - THE MONARCH - LIGHTING

1/4" = 1'-0"

PLAN NOTES

1. PROVIDE CEILING FAN RATED BACKBOX. PROVIDE 12-3 MC CABLE FROM CEILING FAN RATED BACKBOX TO LIGHT/FAN SWITCH FOR WIRING OF CEILING FAN.
2. FAN AND LIGHT SWITCH IN A COMMON BOX AND PLATE. PROVIDE LEVITON DECORA STYLE OR EQUAL.
3. AT UNITS WITH A SCREENED PORCH: INSTALL "U7" FIXTURE ON WALL WHERE INDICATED.
4. AT UNITS WITH A SUNROOM: INSTALL CEILING FAN "U6B" WHERE INDICATED.

GENERAL NOTES

A. PROVIDE FOAM GASKETS FOR ALL WIRING DEVICES (RECEPTACLES, SWITCHES, AND DIMMERS) INSTALLED ON THE INTERIOR OF AN EXTERIOR BUILDING WALL. FOAM GASKETS PROVIDE ADDITIONAL INSULATION BETWEEN THE BACK BOX, WIRING DEVICE(S), AND WALLPLATE(S).
B. REFER TO ARCHITECTURAL FIRE PROTECTION PLANS FOR LOCATIONS OF FIRE RATED WALLS. ALL RECESSED ELECTRICAL JUNCTION BOXES LOCATED IN FIRE OR ACOUSTICAL RATED WALLS SHALL BE SEPERATED AS REQUIRED BY THE LATEST ENFORCED IBC.
C. WALL BOXES FOR SWITCH BOXES OR RECEPTACLES IN WALL WITH POCKET DOORS SHALL BE INSTALLED SO WALL BOX OR WIRING TO WALL BOX DOES NOT CONFLICT WITH THE OPENING OR CLOSING OF THE POCKET DOOR.
D. ALL BRANCH CIRCUITS SUPPLYING OUTLETS INSTALLED IN DWELLING UNIT KITCHENS, FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, DENS, BEDROOMS, CLOSETS, HALLWAYS, LAUNDRY AREAS, OR SIMILAR ROOMS SHALL BE SHALL BE PROTECTED BY A LISTED AFCI (ARC-FAULT CIRCUIT-INTERRUPTER) TYPE CIRCUIT BREAKER PER NEC 210.12.
E. ***BRANCH CIRCUIT WIRING WITHIN APARTMENTS IS TYPE NM CABLE (ROMEX) WITH INSULATED COPPER CONDUCTORS.***
F. WHERE SWITCHES ARE SHOWN ADJACENT TO EACH OTHER, GANG TOGETHER UNDER COMMON SWITCHPLATE COVER.
G. ROCKER (DECORA STYLE) SWITCHES AND RECEPTACLES: DEVICE AND SWITCHPLATE COLOR: WHITE.
H. UNDERCOUNTER LIGHT FIXTURES ARE TO BE INSTALLED TOWARD THE FRONT OF CABINET SKIRT CONCEALED. COORDINATE LOCATIONS WITH CASEWORK ELEVATIONS.
I. PROVIDE COVERS ("TENMAT" OR EQUAL) IN LOCATIONS OF FIRE RATED CEILINGS IN AREAS WHERE FIXTURES ARE NOT IC RATED AND INSULATION IS PRESENT.
J. PROVIDE CEILING FAN RATED BACKBOX AT ALL CEILING FAN LOCATIONS.
K. UNDERCABINET TASK LIGHTING LENGTHS VARY BY CABINET WIDTH. COORDINATE LIGHTING WITH CABINETS INDICATED ON CASEWORK ELEVATIONS. PROVIDE THE FOLLOWING SIZES:
   a. UBA: CABINETS SHOWN AS 15" - 21".
   b. UBB: CABINETS SHOWN AS 24" - 30".
L. ALL BALCONY LIGHTS AT STACKED UNITS SHALL BE ALIGNED.
M. REFER TO DETAIL 7/E6.1 FOR ADDITIONAL INFORMATION REGARDING LIGHT SWITCH "TS" IN BATHROOMS.
N. FOR ADA UNITS ONLY: INSTALL DWELLING UNIT LOAD CENTER AT 48" AFF TO TOP MOST BREAKER.
O. VANITY LIGHT FIXTURES IN BATHROOMS SHALL BE CENTERED ON SINK WHERE THERE ARE DOUBLE SINKS, OR CENTERED ON VANITY WHERE THERE IS A SINGLE SINK.
P. BATHROOM 3-LIGHT VANITY FIXTURE (U5) SHALL BE INSTALLED WITH GLOBES POINTING DOWNWARD TOWARDS SINK.

STATE OF MISSOURI
CHRISTOPHER MIALOVICH
NUMBER
PE-2009000254
PROFESSIONAL ENGINEER

BID SET

PROJECT TITLE

John Knox Village

MEADOWS BUILDING PHASE III

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ARCHITECT	DAS	CHECKED	CIW
ENGINEER	NAD	APPROVED	CIW

NO.	REVISION DESCRIPTION	DATE

DRAWING TITLE

ENLARGED UNIT PLANS - LIGHTING

DATE: 03/13/2026

COMM. NO. 25116.00

DRAWING E3.1

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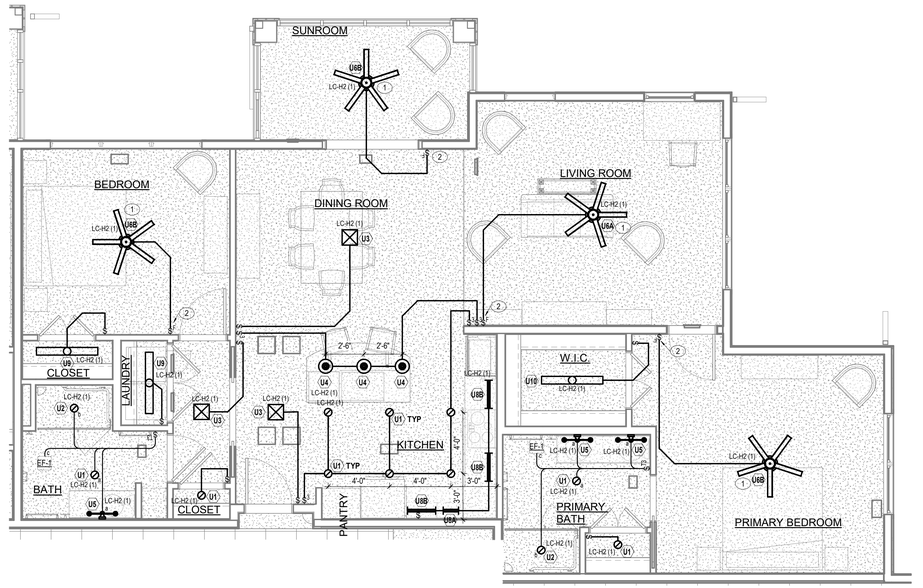
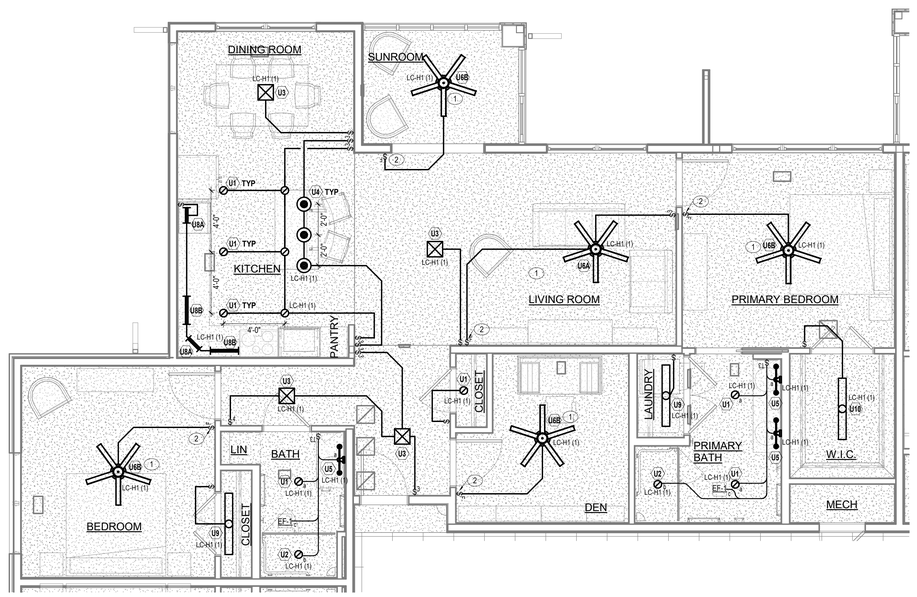


2 E3.2 UNIT H-2 - THE PLAZA - LIGHTING

1/4" = 1'-0"



1 E3.2 UNIT H-1 - THE ROYAL - LIGHTING

1/4" = 1'-0"

PLAN NOTES

1. PROVIDE CEILING FAN RATED BACKBOX. PROVIDE 12-3 MC CABLE FROM CEILING FAN RATED BACKBOX TO LIGHT/FAN SWITCH FOR WIRING OF CEILING FAN.
2. FAN AND LIGHT SWITCH IN A COMMON BOX AND PLATE. PROVIDE LEVITON DECORA STYLE OR EQUAL.

GENERAL NOTES

A. PROVIDE FOAM GASKETS FOR ALL WIRING DEVICES (RECEPTACLES, SWITCHES, AND DIMMERS) INSTALLED ON THE INTERIOR OF AN EXTERIOR BUILDING WALL. FOAM GASKETS PROVIDE ADDITIONAL INSULATION BETWEEN THE BACK BOX, WIRING DEVICE(S), AND WALLPLATE(S).
B. REFER TO ARCHITECTURAL FIRE PROTECTION PLANS FOR LOCATIONS OF FIRE RATED WALLS. ALL RECESSED ELECTRICAL JUNCTION BOXES LOCATED IN FIRE OR ACOUSTICAL RATED WALLS SHALL BE SEPERATED AS REQUIRED BY THE LATEST ENFORCED IBC.
C. WALL BOXES FOR SWITCH BOXES OR RECEPTACLES IN WALL WITH POCKET DOORS SHALL BE INSTALLED SO WALL BOX OR WIRING TO WALL BOX DOES NOT CONFLICT WITH THE OPENING OR CLOSING OF THE POCKET DOOR.
D. ALL BRANCH CIRCUITS SUPPLYING OUTLETS INSTALLED IN DWELLING UNIT KITCHENS, FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, DENS, BEDROOMS, CLOSETS, HALLWAYS, LAUNDRY AREAS, OR SIMILAR ROOMS SHALL BE SHALL BE PROTECTED BY A LISTED AFCI (ARC-FAULT CIRCUIT-INTERRUPTER) TYPE CIRCUIT BREAKER PER NEC 210.12.
E. ***BRANCH CIRCUIT WIRING WITHIN APARTMENTS IS TYPE NM CABLE (ROMEX) WITH INSULATED COPPER CONDUCTORS.***
F. WHERE SWITCHES ARE SHOWN ADJACENT TO EACH OTHER, GANG TOGETHER UNDER COMMON SWITCHPLATE COVER.
G. ROCKER (DECORA STYLE) SWITCHES AND RECEPTACLES. DEVICE AND SWITCHPLATE COLOR: WHITE.
H. UNDERCOUNTER LIGHT FIXTURES ARE TO BE INSTALLED TOWARD THE FRONT OF CABINET SKIRT CONCEALED. COORDINATE LOCATIONS WITH CASEWORK ELEVATIONS.
I. PROVIDE COVERS (TENMAT" OR EQUAL) IN LOCATIONS OF FIRE RATED CEILINGS IN AREAS WHERE FIXTURES ARE NOT IC RATED AND INSULATION IS PRESENT.
J. PROVIDE CEILING FAN RATED BACKBOX AT ALL CEILING FAN LOCATIONS.
K. UNDERCABINET TASK LIGHTING LENGTHS VARY BY CABINET WIDTH. COORDINATE LIGHTING WITH CABINETS INDICATED ON CASEWORK ELEVATIONS. PROVIDE THE FOLLOWING SIZES:
   a. UBA: CABINETS SHOWN AS 15" - 21".
   b. UBB: CABINETS SHOWN AS 24" - 30".
L. ALL BALCONY LIGHTS AT STACKED UNITS SHALL BE ALIGNED.
M. REFER TO DETAIL 7/E6.1 FOR ADDITIONAL INFORMATION REGARDING LIGHT SWITCH "TS" IN BATHROOMS.
N. FOR ADA UNITS ONLY: INSTALL DWELLING UNIT LOAD CENTER AT 48" AFF TO TOP MOST BREAKER.
O. VANITY LIGHT FIXTURES IN BATHROOMS SHALL BE CENTERED ON SINK WHERE THERE ARE DOUBLE SINKS, OR CENTERED ON VANITY WHERE THERE IS A SINGLE SINK.
P. BATHROOM 3-LIGHT VANITY FIXTURE (U5) SHALL BE INSTALLED WITH GLOBES POINTING DOWNWARD TOWARDS SINK.

STATE OF MISSOURI
CHRISTOPHER IALACCI
NUMBER
PE-2009000254
PROFESSIONAL ENGINEER

BID SET

PROJECT TITLE

John Knox Village

MEADOWS BUILDING PHASE III

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ARCHITECT	: DAS	CHECKED	: CIW
ENGINEER	: NAD	APPROVED	: CIW

NO.	REVISION DESCRIPTION	DATE

DRAWING TITLE

ENLARGED UNIT PLANS - LIGHTING

DATE: 03/13/2026

COMM. NO. 25116.00

DRAWING E3.2

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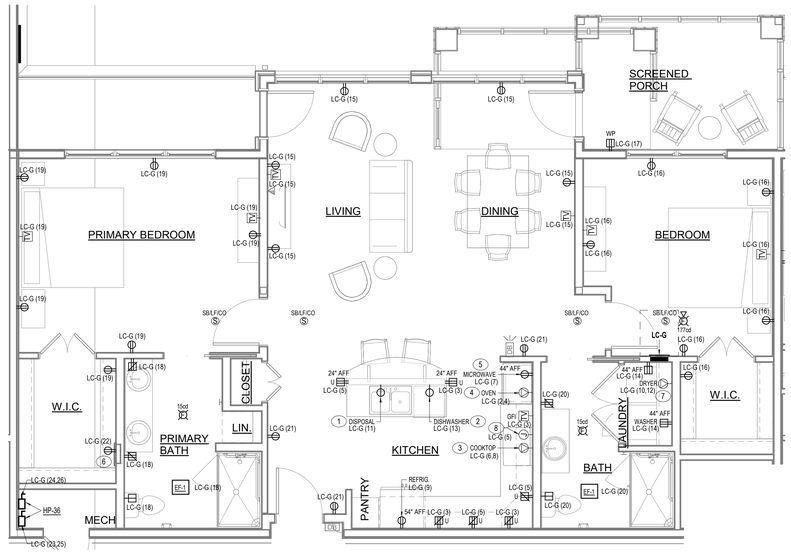
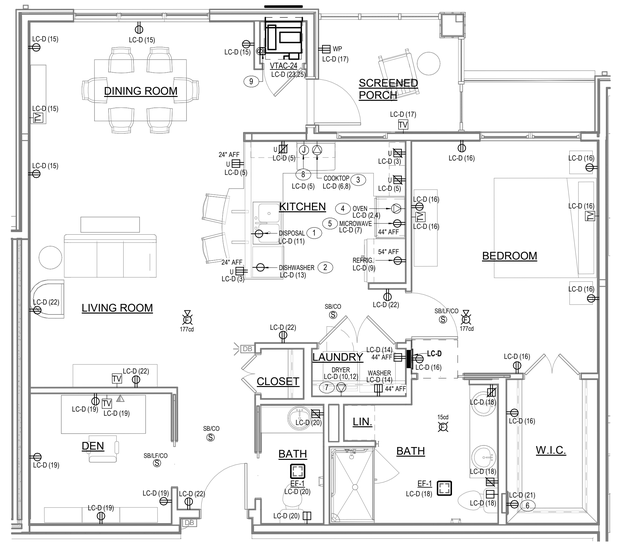


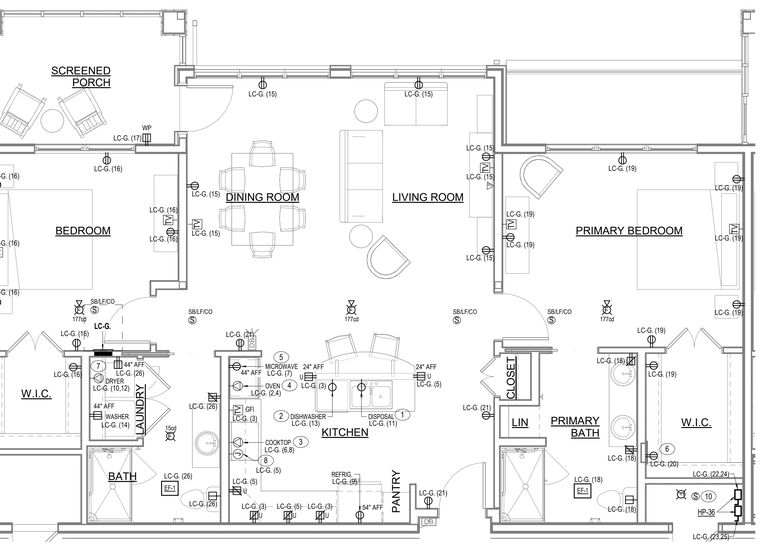
4 E3.3 UNIT G - THE BROOKSIDE (MIRRORED) - POWER

1/4" = 1'-0"



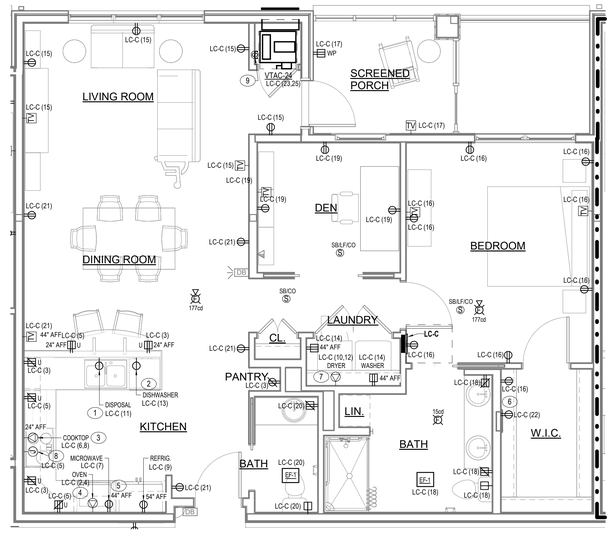
2 E3.3 UNIT D - THE STARLIGHT - POWER

1/4" = 1'-0"



3 E3.3 UNIT G - THE BROOKSIDE - POWER

1/4" = 1'-0"



1 E3.3 UNIT C - THE MONARCH - POWER

1/4" = 1'-0"

PLAN NOTES

1. 120V SIMPLEX RECEPTACLE FOR GARBAGE DISPOSAL. VERIFY LOCATION AND INSTALL PER DISPOSAL MANUFACTURER REQUIREMENTS PRIOR TO ROUGH-IN. PROVIDE GFCI BREAKER. PROVIDE WALL MOUNT CONTROL SWITCH. FOR ISLAND OR PENINSULA MOUNTED UNIT, PROVIDE AIR SWITCH IN COUNTERTOP. COORDINATE SWITCH TYPE REQUIRED WITH ARCHITECT.
2. 120V SIMPLEX RECEPTACLE FOR UNDERCOUNTER DISHWASHER. VERIFY LOCATION AND INSTALL PER DISPOSAL MANUFACTURER REQUIREMENTS PRIOR TO ROUGH-IN. PROVIDE GFCI BREAKER.
3. RECEPTACLE FOR ELECTRIC COOKTOP. VERIFY LOCATION AND NEMA CONFIGURATION WITH MANUFACTURER PRIOR TO ROUGH-IN.
4. RECEPTACLE FOR ELECTRIC BUILT-IN OVEN. VERIFY LOCATION AND NEMA CONFIGURATION WITH MANUFACTURER PRIOR TO ROUGH-IN.
5. 120V RECEPTACLE FOR CONNECTION TO MICROWAVE. VERIFY LOCATION AND CONNECTION REQUIREMENTS PRIOR TO ROUGH-IN.
6. RECEPTACLE FOR RESIDENTIAL COMMUNICATION SERVICE ENCLOSURE. COORDINATE WITH LOW VOLTAGE DETAILS FOR ADDITIONAL INFORMATION.
7. 14-30 RECEPTACLE FOR DRYER. PROVIDE GFCI BREAKER AT LOADCENTER. COORDINATE EXACT LOCATION AND NEMA CONFIGURATION PRIOR TO INSTALLATION.
8. JUNCTION BOX AT APPROX. 66" FOR 120V CONNECTION TO KITCHEN HOOD. VERIFY LOCATION AND CONNECTION REQUIREMENTS PRIOR TO ROUGH-IN.
9. PROVIDE CEILING OR WALL MOUNTED SMOKE DETECTOR IN VTAC CLOSET WITH CONNECTION TO A SHUTOFF RELAY. UPON ALARM ACTIVATION, THE RELAY SHALL SHUT OFF THE UNIT VTAC AND EXHAUST FANS IN BATHROOMS. REFER TO MECHANICAL SHEET M3.1 FOR ADDITIONAL INFORMATION.
10. PROVIDE DUCT MOUNTED SMOKE DETECTOR FOR UNIT HEAT PUMP WITH CONNECTION TO A SHUTOFF RELAY. UPON ALARM ACTIVATION, THE UNIT HEAT PUMP SHALL SHUT OFF. REFER TO MECHANICAL SHEET M3.1 FOR ADDITIONAL INFORMATION.

GENERAL NOTES

A. PROVIDE FOAM GASKETS FOR ALL WIRING DEVICES (RECEPTACLES, SWITCHES, AND DIMMERS) INSTALLED ON THE INTERIOR OF AN EXTERIOR BUILDING WALL. FOAM GASKETS PROVIDE ADDITIONAL INSULATION BETWEEN THE BACK BOX, WIRING DEVICE(S), AND WALLPLATE(S).
B. REFER TO ARCHITECTURAL FIRE PROTECTION PLANS FOR LOCATIONS OF FIRE RATED WALLS. ALL RECESSED ELECTRICAL JUNCTION BOXES LOCATED IN FIRE OR ACOUSTICAL RATED WALLS SHALL BE SEPERATED AS REQUIRED BY THE LATEST ENFORCED IBC.
C. WALL BOXES FOR SWITCH BOXES OR RECEPTACLES IN WALL WITH POCKET DOORS SHALL BE INSTALLED SO WALL BOX OR WIRING TO WALL BOX DOES NOT CONFLICT WITH THE OPENING OR CLOSING OF THE POCKET DOOR.
D. ALL BRANCH CIRCUITS SUPPLYING OUTLETS INSTALLED IN DWELLING UNIT KITCHENS, FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, DENS, BEDROOMS, CLOSETS, HALLWAYS, LAUNDRY AREAS, OR SIMILAR ROOMS SHALL BE SHALL BE PROTECTED BY A LISTED AFCI (ARC-FAULT CIRCUIT-INTERRUPTER) TYPE CIRCUIT BREAKER PER NEC 210.12.
E. ***BRANCH CIRCUIT WIRING WITHIN APARTMENTS IS TYPE MC CABLE WITH INSULATED COPPER CONDUCTORS AND AN INSULATED GROUNDING CONDUCTOR.***
F. RECEPTACLES IN DWELLING UNITS SHALL BE TAMPER-PROOF TYPE AS REQUIRED PER NEC ARTICLE 406.12 AND 210.52.
G. PLACEMENT OF RECEPTACLES WITHIN DWELLING UNITS SHALL BE IN ACCORDANCE WITH NEC ARTICLE 210.
H. LIVING UNIT LOADCENTER DOORS SHALL BE PAINTED TO MATCH INTERIOR WALL COLOR.
I. RANGE HOODS SHALL BE SERVED FROM LOCAL BRANCH CIRCUIT.
J. REFER TO PANEL SCHEDULES FOR BRANCH CIRCUIT OF HVAC UNITS SERVING APARTMENTS.
K. ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ALL APPLIANCE ELECTRICAL CORDS NOT SUPPLIED BY THE MANUFACTURER.
L. MOUNT LOAD CENTER SO THAT TOP MOST BREAKER IS NO HIGHER THAN 72" AFF. 44" - 48" AFF IN ACCESSIBLE "TYPE A" DESIGNATED UNITS.
M. ROCKER (DECORA STYLE) SWITCHES AND RECEPTACLES. DEVICE AND SWITCHPLATE COLOR: WHITE.
N. ALL AUDIBLE FIRE ALARMS IN EVERY UNIT MUST INCLUDE 520 HZ HORN.
O. ALL SMOKE DETECTORS REQUIRED TO BE PHOTO ELECTRIC.
P. COORDINATE TV OUTLET BOX HEIGHT & LOCATION WITH ARCHITECT BEFORE ROUGH-IN.
Q. MICROWAVE RECEPTACLE SHALL BE LOCATED IN CABINET SPACE ABOVE RANGE/OVEN FOR NON ADA UNITS.
R. ALL BATHROOM STROBES IN ADA UNITS TYPE B SHALL BE PRE-WIRED FOR FUTURE
S. ADA ADAPTABLE UNIT UPFIT. FUTURE BATHROOM STROBES SHALL BE PROVIDED WITH BLANK PLATE.
T. ALL ADA UNITS TYPE A SHALL HAVE 177CD HORN/STROBE IN BEDROOM/COMMON AREA AND 15CD STROBE IN BATHROOMS.
U. PROVIDE GFCI SIMPLEX RECEPTACLE BEHIND TOILETS FOR FUTURE CONNECTION TO BIDET.

BID SET

PROJECT TITLE

John Knox Village

MEADOWS BUILDING PHASE III

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DESIGNER	DAS	DRAWN	JDM
ARCHITECT	DAS	CHECKED	CIW
ENGINEER	NAD	APPROVED	CIW

NO.	REVISION DESCRIPTION	DATE

DRAWING TITLE

ENLARGED UNIT PLANS - ELECTRICAL

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DRAWING E3.3

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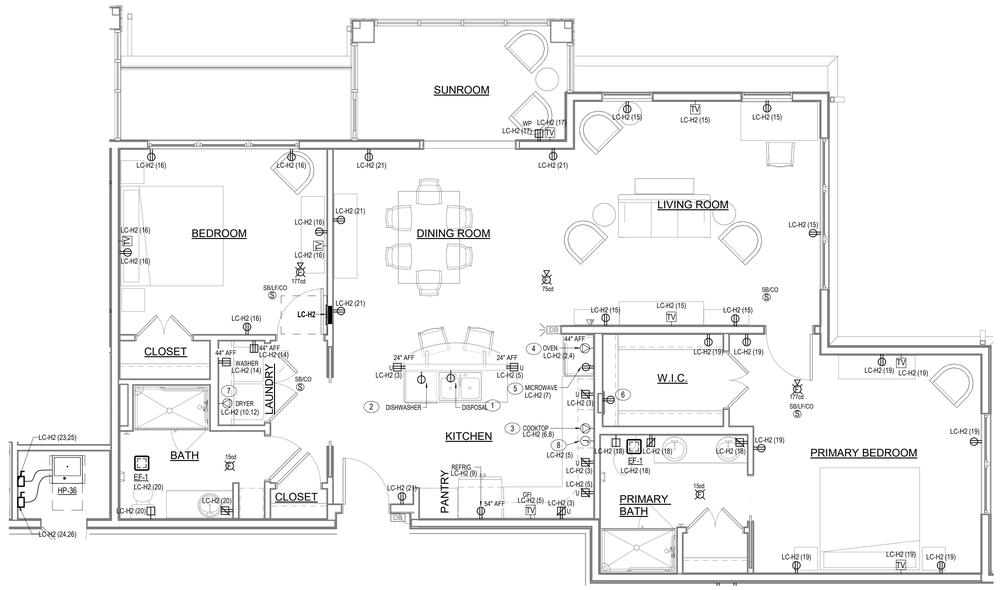
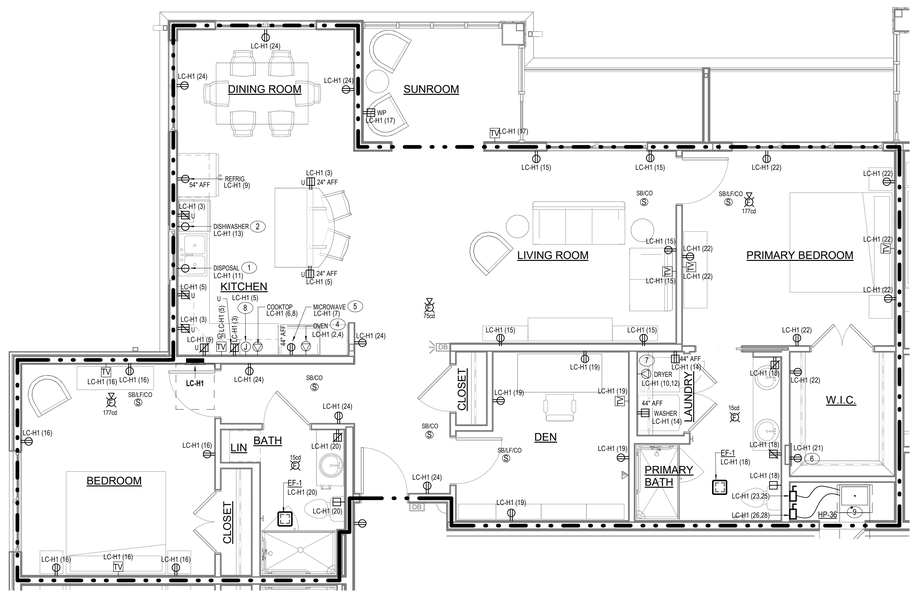


2 E3.4 UNIT H-2 - THE PLAZA - POWER

1/4" = 1'-0"



1 E3.4 UNIT H-1 - THE ROYAL - POWER

1/4" = 1'-0"

PLAN NOTES

1. 120V SIMPLEX RECEPTACLE FOR GARBAGE DISPOSAL. VERIFY LOCATION AND INSTALL PER DISPOSAL MANUFACTURER REQUIREMENTS PRIOR TO ROUGH-IN. PROVIDE GFCI BREAKER. PROVIDE WALL MOUNT CONTROL SWITCH. FOR ISLAND OR PENINSULA MOUNTED UNIT, PROVIDE AIR SWITCH IN COUNTERTOP. COORDINATE SWITCH TYPE REQUIRED WITH ARCHITECT.
2. 120V SIMPLEX RECEPTACLE FOR UNDERCOUNTER DISHWASHER. VERIFY LOCATION AND INSTALL PER DISPOSAL MANUFACTURER REQUIREMENTS PRIOR TO ROUGH-IN. PROVIDE GFCI BREAKER.
3. RECEPTACLE FOR ELECTRIC COOKTOP. VERIFY LOCATION AND NEMA CONFIGURATION WITH MANUFACTURER PRIOR TO ROUGH-IN.
4. RECEPTACLE FOR ELECTRIC BUILT-IN OVEN. VERIFY LOCATION AND NEMA CONFIGURATION WITH MANUFACTURER PRIOR TO ROUGH-IN.
5. 120V RECEPTACLE FOR CONNECTION TO MICROWAVE. VERIFY LOCATION AND CONNECTION REQUIREMENTS PRIOR TO ROUGH-IN.
6. RECEPTACLE FOR RESIDENTIAL COMMUNICATION SERVICE ENCLOSURE. COORDINATE WITH LOW VOLTAGE DETAILS FOR ADDITIONAL INFORMATION.
7. 14-30 RECEPTACLE FOR DRYER. PROVIDE GFCI BREAKER AT LOADCENTER. COORDINATE EXACT LOCATION AND NEMA CONFIGURATION PRIOR TO INSTALLATION.
8. JUNCTION BOX AT APPROX. 66" FOR 120V CONNECTION TO KITCHEN HOOD. VERIFY LOCATION AND CONNECTION REQUIREMENTS PRIOR TO ROUGH-IN.
9. FOR UNIT H-1A ONLY, HP-36 SHALL HAVE INTERLOCK CONNECTION WITH THE TWO VF-3 FANS LOCATED IN THE NEARBY MECHANICAL ROOM ON THE RESPECTIVE FLOOR SOUTH OF ELEVATOR #2. FLOORS 2 THROUGH 5. WHEN AIR HANDLER SUPPLY AIR FAN RUNS, VF-3 FAN CIRCUIT SHALL ENERGIZE AND RUN AT CONTINUOUS SPEED. REFER TO MECHANICAL SHEET M4.1 - CONTROLS FOR ADDITIONAL DETAILS AND INFORMATION.

GENERAL NOTES

A. PROVIDE FOAM GASKETS FOR ALL WIRING DEVICES (RECEPTACLES, SWITCHES, AND DIMMERS) INSTALLED ON THE INTERIOR OF AN EXTERIOR BUILDING WALL. FOAM GASKETS PROVIDE ADDITIONAL INSULATION BETWEEN THE BACK BOX, WIRING DEVICE(S), AND WALLPLATE(S).
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D. ALL BRANCH CIRCUITS SUPPLYING OUTLETS INSTALLED IN DWELLING UNIT KITCHENS, FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, DENS, BEDROOMS, CLOSETS, HALLWAYS, LAUNDRY AREAS, OR SIMILAR ROOMS SHALL BE SHALL BE PROTECTED BY A LISTED AFCI (ARC-FAULT CIRCUIT-INTERRUPTER) TYPE CIRCUIT BREAKER PER NEC 210.12.
E. ***BRANCH CIRCUIT WIRING WITHIN APARTMENTS IS TYPE MC CABLE WITH INSULATED COPPER CONDUCTORS AND AN INSULATED GROUNDING CONDUCTOR.***
F. RECEPTACLES IN DWELLING UNITS SHALL BE TAMPER-PROOF TYPE AS REQUIRED PER NEC ARTICLE 406.12 AND 210.52.
G. PLACEMENT OF RECEPTACLES WITHIN DWELLING UNITS SHALL BE IN ACCORDANCE WITH NEC ARTICLE 210.
H. LIVING UNIT LOADCENTER DOORS SHALL BE PAINTED TO MATCH INTERIOR WALL COLOR.
I. RANGE HOODS SHALL BE SERVED FROM LOCAL BRANCH CIRCUIT.
J. REFER TO PANEL SCHEDULES FOR BRANCH CIRCUIT OF HVAC UNITS SERVING APARTMENTS.
K. ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ALL APPLIANCE ELECTRICAL CORDS NOT SUPPLIED BY THE MANUFACTURER.
L. MOUNT LOAD CENTER SO THAT TOP MOST BREAKER IS NO HIGHER THAN 72" AFF. 44" - 48" AFF IN ACCESSIBLE "TYPE A" DESIGNATED UNITS.
M. ROCKER (DECORA STYLE) SWITCHES AND RECEPTACLES. DEVICE AND SWITCHPLATE COLOR: WHITE.
N. ALL AUDIBLE FIRE ALARMS IN EVERY UNIT MUST INCLUDE 520 HZ HORN.
O. ALL SMOKE DETECTORS REQUIRED TO BE PHOTO ELECTRIC.
P. COORDINATE TV OUTLET BOX HEIGHT & LOCATION WITH ARCHITECT BEFORE ROUGH-IN.
Q. MICROWAVE RECEPTACLE SHALL BE LOCATED IN CABINET SPACE ABOVE RANGE/OVEN FOR NON ADA UNITS.
R. ALL BATHROOM STROBES IN ADA UNITS TYPE B SHALL BE PRE-WIRED FOR FUTURE.
S. ADA ADAPTABLE UNIT UPFIT. FUTURE BATHROOM STROBES SHALL BE PROVIDED WITH BLANK PLATE.
T. ALL ADA UNITS TYPE A SHALL HAVE 177CD HORN/STROBE IN BEDROOM/COMMON AREA AND 15CD STROBE IN BATHROOMS.
U. PROVIDE 6/FCI SIMPLEX RECEPTACLE BEHIND TOILETS FOR FUTURE CONNECTION TO BIDET.

STATE OF MISSOURI
CHRISTOPHER WALKER
NUMBER
PE-2006030754
PROFESSIONAL ENGINEER

BID SET

PROJECT TITLE

John Knox Village

MEADOWS BUILDING PHASE III

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DESIGNER	: DAS	DRAWN	: JDM
ARCHITECT	: DAS	CHECKED	: CW
ENGINEER	: NAD	APPROVED	: CW

NO.	REVISION DESCRIPTION	DATE

DRAWING TITLE

ENLARGED UNIT PLANS - ELECTRICAL

DATE: 03/13/2026

COMM. NO. 25116.00

DRAWING E3.4

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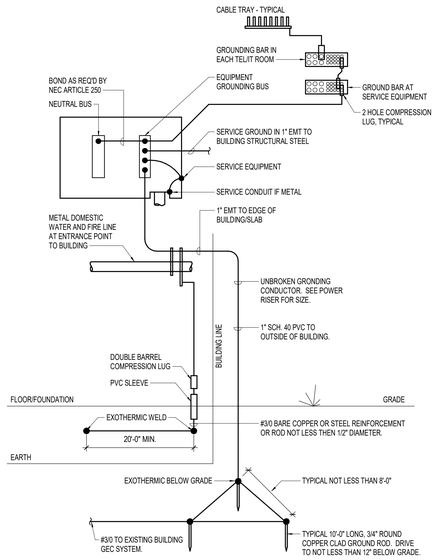
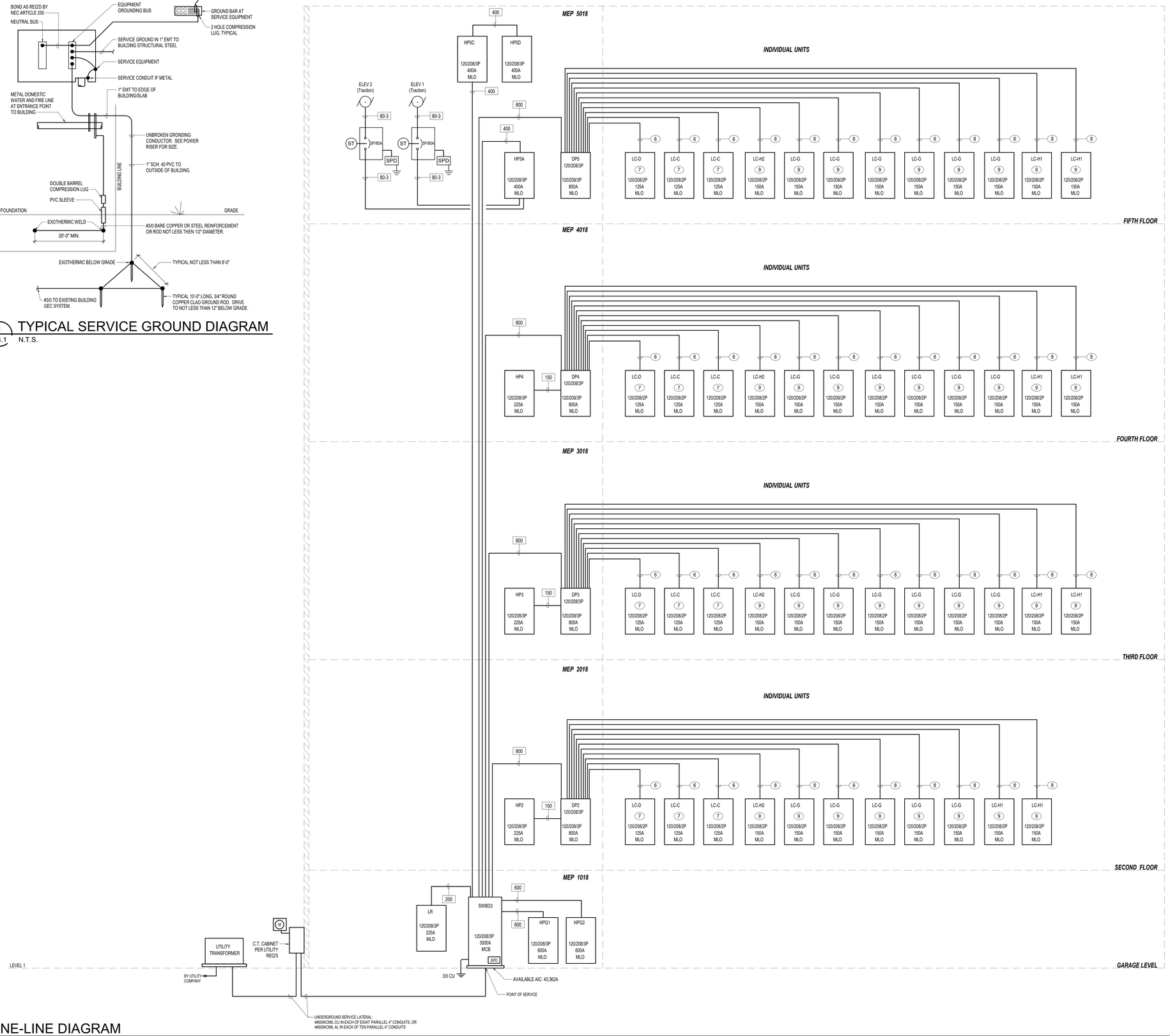


1 / E4.1 TYPICAL SERVICE GROUND DIAGRAM

N.T.S.



4 / E4.1 ONE-LINE DIAGRAM

N.T.S.

ONE-LINE RISER FEEDER SCHEDULE (ALUMINUM)

CABLE TAG	CABLE AMPACITY	CONDUIT NO. SETS	CONDUIT SIZE	PHASE CONDUCTORS NO.	PHASE CONDUCTORS SIZE	PHASE CONDUCTORS CU/AL	GND. SIZE PER SET (SEE NOTE C)
20	20	1	3/4"	4	#12	CU	#12
25	20	1	3/4"	4	#10	CU	#12
25-3	25	1	3/4"	3	#10	CU	#10
30	30	1	3/4"	4	#10	CU	#10
40	40	1	3/4"	4	#8	CU	#10
50	50	1	3/4"	4	#8	CU	#10
50-3	50	1	3/4"	3	#8	CU	#10
60	60	1	1"	4	#4	AL	#10
60-3	60	1	1"	3	#4	AL	#10
70-3	70	1	1"	3	#3	AL	#8
80	80	1	1-1/4"	4	#2	AL	#8
100	100	1	1-1/4"	4	#1	AL	#8
100-3	100	1	1-1/2"	3	#1	AL	#8
125	125	1	1-1/2"	4	#2/0	AL	#6
125-3	125	1	2"	3	#2/0	AL	#6
150-3	150	1	1-1/2"	3	#3/0	AL	#6
150	150	1	2"	4	#3/0	AL	#6
175	175	1	2"	4	#4/0	AL	#6
175-3	175	1	2"	3	#4/0	AL	#6
200	200	1	2-1/2"	4	#250 kcmil	AL	#6
200-3	200	1	2"	3	#250 kcmil	AL	#6
225	225	1	2-1/2"	4	#300 kcmil	AL	#4
225-3	225	1	2"	3	#300 kcmil	AL	#4
250	250	1	3"	4	#350 kcmil	AL	#4
250-3	250	1	2-1/2"	3	#350 kcmil	AL	#4
300	300	1	3-1/2"	4	#500 kcmil	AL	#4
350-3	350	2	2"	3	#4/0	AL	#3
400	400	2	2-1/2"	4	#250 kcmil	AL	#3
450-3	450	2	2"	3	#300 kcmil	AL	#2
500	500	2	3"	4	#350 kcmil	AL	#2
600	600	2	3-1/2"	4	#500 kcmil	AL	#1
750-3	750	3	2-1/2"	3	#350 kcmil	AL	#1/0
800	800	3	3"	4	#400 kcmil	AL	#1/0
1000	1000	4	3"	4	#350 kcmil	AL	#2/0
1200	1200	4	3"	4	#500 kcmil	AL	#3/0
1600	1600	6	3"	4	#400 kcmil	AL	#4/0
2000	2000	7	3-1/2"	4	#500 kcmil	AL	#250 kcmil
2500	2500	9	3-1/2"	4	#500 kcmil	AL	#350 kcmil
3000	3000	10	3-1/2"	4	#500 kcmil	AL	#400 kcmil

FEEDER SCHEDULE NOTES:

A. ALL FEEDER SIZES INDICATED IN SCHEDULE ARE BASED ON CONDUCTORS WITH A TEMPERATURE RATING OF 75° C UNLESS NOTED OTHERWISE.
B. SCHEDULE DOES NOT INCLUDE VOLTAGE DROP CONSIDERATIONS. CONTRACTOR SHALL ACCOUNT FOR VOLTAGE DROP BY UTILIZING AN NEC APPROVED CALCULATION METHOD FOR FEEDERS WITH LENGTHS GREATER THAN 200 FEET.
C. ALL GROUND CONDUCTORS TO BE COPPER PER SPECIFICATION SECTION 260526.

ELECTRICAL PANEL NAMING KEY:

N H DP 1 A

SYSTEM
N - NORMAL POWER
LS - LIFE SAFETY/EMERGENCY SYSTEM (LEGALLY RQD. STANDBY)
E - EMERGENCY (ART. 700)
CR - CRITICAL BRANCH (OPTIONAL STANDBY)
EQ - EQUIPMENT BRANCH
OS - OPTIONAL STANDBY (ART. 702)

VOLTAGE
H - 277/480V
L - 120/208V

PANEL TYPE
DP - DISTRIBUTION TYPE PANEL BOARD
P - BRANCH CIRCUIT PANEL BOARD
SW - SWITCHBOARD

BUILDING AREA/FLOOR #
1 - 1ST FLOOR
2 - 2ND FLOOR...

PANELBOARD SUFFIX
A, B, C . . . (DEPENDING ON NO. OF PANELS)

GENERAL NOTES

PLAN NOTES

1. CONDUITS FOR UNDERGROUND PRIMARY.
2. UTILITY METER AND OUTDOOR CT CABINET PER LOCAL UTILITY REQUIREMENTS.
3. UNDERGROUND SERVICE LATERAL TO PAD MOUNT UTILITY TRANSFORMER -8 SETS OF (4) #500 KCMIL CU, IN 4" SCHEDULE 80 PVC CONDUIT.
4. #3/0 CU GROUNDING ELECTRODE CONDUCTOR. BOND TO DRIVEN GROUND RODS, BUILDING STEEL, REINFORCING STEEL, AND METALLIC COLD WATER. SERVICE PIPE PER NEC 250 REQUIREMENTS.
5. CONSTRUCT CONCRETE TRANSFORMER PAD PER LOCAL ELECTRIC UTILITY REQUIREMENTS.
6. 3/C WITH GROUND - 2-#1 & 1-#6 GRD CU MC CABLE.
7. LIVING UNIT LOADCENTER - 208/120V, 1PH, 3W, MLO, 32 SPACES. SQUARE D **#QO132L125G** SERIES / EATON **CH32L125** - FLUSH MOUNT W/DOOR OR EQUIVALENT.
8. 3/C WITH GROUND - 2-#1/0 & 1-#6 GRD CU MC CABLE.
9. LIVING UNIT LOADCENTER - 208/120V, 1PH, 3W, MLO, 30 SPACES. SQUARE D **#QO130L150G** SERIES / EATON **CH30L150** - FLUSH MOUNT W/DOOR OR EQUIVALENT.

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BID SET

PROJECT TITLE

John Knox Village

MEADOWS BUILDING PHASE III

SFCS Architecture Engineering Planning Interiors
SFCS Inc. ▪ 305 South Jefferson Street
Roanoke, Virginia 24011.2003
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DESIGNER	: DAS	DRAWN	: JDM
ARCHITECT	: DAS	CHECKED	: CIW
ENGINEER	: NAD	APPROVED	: CIW

NO.	REVISION DESCRIPTION	DATE

DRAWING TITLE

ELECTRICAL ONE-LINE RISER DIAGRAM

DATE: 03/13/2026

COMM. NO. 25116.00

DRAWING E4.1

3/13/2026 1:06:43 PM

Autodesk Docs://25116.00 - John Knox Village - Meadows III/25116.00 - John Knox Village - Meadows III - ELECTRICAL CENTRAL.rvt

Branch Panel: DP4

Location: MECH. 4018 **Volts:** 120/208 Wye **A.I.C. Rating:** 25,000 AIC
Supply From: SWBD3 **Phases:** 3 **Mains Type:** MLO
Mounting: SURFACE **Wires:** 4 **Mains Rating:** 800 A
Enclosure: NEMA 1 **MCB Rating:**

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	UNIT D - 4011	125 A	2	16878... 16989...			2	125 A	UNIT C - 4015	2
3	--	--	--		16878... 16989...		--	--	--	4
5	UNIT C - 4013	125 A	2			16989... 19348...	2	150 A	UNIT H2 - 4010	6
7	--	--	--	16989... 19348...			--	--	--	8
9	UNIT G - 4012	150 A	2		17368... 17368...		2	150 A	UNIT G - 4017	10
11	--	--	--			17368... 17368...	--	--	--	12
13	UNIT G - 4019	150 A	2	17368... 19375...			2	150 A	UNIT H1 - 4020	14
15	--	--	--		17368... 19375...		--	--	--	16
17	UNIT H1 - 4021	150 A	2			19375... 17368...	2	150 A	UNIT G - 4018	18
19	--	--	--	19375... 17368...			--	--	--	20
21	UNIT G - 4016	150 A	2		17368... 17368...		2	150 A	UNIT G - 4014	22
23	--	--	--			17368... 17368...	--	--	--	24
25	HP4	150 A	3	11677... --			1	--	SPACE	26
27	--	--	--		11049... --		1	--	SPACE	28
29	--	--	--			11469... --	1	--	SPACE	30
		Total Load:		155364 VA	151129 VA	154020 VA				
		Total Amps:		1298 A	1259 A	1287 A				

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	5784 VA	75.00%	4338 VA		
Other	90 VA	100.00%	90 VA	**Total Conn. Load:**	478309 VA
Receptacle	6300 VA	100.00%	6300 VA	**Total Est. Demand:**	210017 VA
Lighting	2509 VA	125.00%	3136 VA	**Total Conn.:**	1328 A
Power	3952 VA	100.00%	3952 VA	**Total Est. Demand:**	583 A
Electric Heat	15560 VA	65.00%	10114 VA		
Residential per NEC 220.84	444114 VA	41.00%	182087 VA		

Notes:

Branch Panel: DP2

Location: MECH. 2018 **Volts:** 120/208 Wye **A.I.C. Rating:** 25,000 AIC
Supply From: SWBD3 **Phases:** 3 **Mains Type:** MLO
Mounting: SURFACE **Wires:** 4 **Mains Rating:** 800 A
Enclosure: NEMA 1 **MCB Rating:**

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	UNIT D - 2011	125 A	2	16878... 16989...			2	125 A	UNIT C - 2015	2
3	--	--	--		16878... 16989...		--	--	--	4
5	UNIT C - 2013	125 A	2			16989... 19348...	2	150 A	UNIT H2 - 2010	6
7	--	--	--	16989... 19348...			--	--	--	8
9	UNIT G - 2012	150 A	2		17368... 17368...		2	150 A	UNIT G - 2017	10
11	--	--	--			17368... 17368...	--	--	--	12
13	UNIT G - 2019	150 A	2	17368... 19375...			2	150 A	UNIT H1 - 2020	14
15	--	--	--		17368... 19375...		--	--	--	16
17	UNIT H1 - 2021	150 A	2			19375... 17368...	2	150 A	UNIT G - 2018	18
19	--	--	--	19375... 17368...			--	--	--	20
21	UNIT G - 2016	150 A	2		17368... 16081...		3	150 A	HP2	22
23	--	--	--			17368... 14264...	--	--	--	24
25	SPACE	--	1	-- 16145...			--	--	--	26
27	SPACE	--	1		-- --		1	--	SPACE	28
29	SPACE	--	1			-- --	1	--	SPACE	30
		Total Load:		159832 VA	138793 VA	139447 VA				
		Total Amps:		1333 A	1157 A	1163 A				

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	5784 VA	75.00%	4338 VA		
Other	556 VA	100.00%	556 VA	**Total Conn. Load:**	451904 VA
Receptacle	9180 VA	100.00%	9180 VA	**Total Est. Demand:**	207955 VA
Lighting	3022 VA	125.00%	3778 VA	**Total Conn.:**	1254 A
Power	4752 VA	100.00%	4752 VA	**Total Est. Demand:**	577 A
Electric Heat	23196 VA	65.00%	15077 VA		
Residential per NEC 220.84	405414 VA	42.00%	170274 VA		

Notes:

Switchboard: SWBD3

Location: MECH. 1018 **Volts:** 120/208 Wye **A.I.C. Rating:** 65,000 AIC
Supply From: **Phases:** 3 **Mains Type:** MCB
Mounting: HSKP PAD **Wires:** 4 **Mains Rating:** 3000 A
Enclosure: NEMA 1 **MCB Rating:** 3000 A

Notes:
1. UL. SERVICE ENTRANCE RATED. 2. PROVIDE LSI TRIP FUNCTIONS ON MAIN. 3.PROVIDE ARC FAULT MITIGATION ON MAIN.

CKT	Circuit Description	# of Poles	Frame Size	Trip Rating	Load	Remarks
1	DP2	3	800 A	800 A	438072 VA	
2	DP3	3	800 A	800 A	457341 VA	
3	DP4	3	800 A	800 A	460513 VA	
4	DP5	3	800 A	800 A	426318 VA	
5	HPG1	3	400 A	400 A	174854 VA	
6	HPG2	3	600 A	600 A	187200 VA	
7	HP5A	3	400 A	400 A	73128 VA	
8	HP5C	3	400 A	400 A	125544 VA	
9	LR	3	200 A	200 A	38778 VA	
10	SPD	3	60 A	60 A	0 VA	
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
				Total Conn. Load:	2448969 VA	
				Total Amps:	6798 A	

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Heating	160000 VA	65.00%	104000 VA		
Motor	6216 VA	111.29%	6918 VA	**Total Conn. Load:**	2448969 VA
Other	826 VA	100.00%	826 VA	**Total Est. Demand:**	1027541 VA
Receptacle	35280 VA	64.17%	22640 VA	**Total Conn.:**	6798 A
Lighting	19769 VA	125.00%	24711 VA	**Total Est. Demand:**	2852 A
Power	24014 VA	100.00%	24014 VA		
HVAC	154636 VA	75.00%	115977 VA		
Elevator	31040 VA	95.00%	29488 VA		
Electric Heat	92232 VA	65.00%	59951 VA		
Residential per NEC 220.84	1737756 VA	26.00%	451817 VA	47 Loadcenters	
EV Charging	187200 VA	100.00%	187200 VA		

Notes:

Branch Panel: DP5

Location: MECH. 5018 **Volts:** 120/208 Wye **A.I.C. Rating:** 25,000 AIC
Supply From: SWBD3 **Phases:** 3 **Mains Type:** MLO
Mounting: SURFACE **Wires:** 4 **Mains Rating:** 800 A
Enclosure: NEMA 1 **MCB Rating:**

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	UNIT D - 5011	125 A	2	16878... 16989...			2	125 A	UNIT C - 5015	2
3	--	--	--		16878... 16989...		--	--	--	4
5	UNIT C - 5013	125 A	2			16989... 19348...	2	150 A	UNIT H2 - 5010	6
7	--	--	--	16989... 19348...			--	--	--	8
9	UNIT G - 5012	150 A	2		17368... 17368...		2	150 A	UNIT G - 5017	10
11	--	--	--			17368... 17368...	--	--	--	12
13	UNIT G - 5019	150 A	2	17368... 19375...			2	150 A	UNIT H1 - 5020	14
15	--	--	--		17368... 19375...		--	--	--	16
17	UNIT H1 - 5021	150 A	2			19375... 17368...	2	150 A	UNIT G - 5018	18
19	--	--	--	19375... 17368...			--	--	--	20
21	UNIT G - 5016	150 A	2		17368... 17368...		2	150 A	UNIT G - 5014	22
23	--	--	--			17368... 17368...	--	--	--	24
25	SPACE	--	1	-- --			1	--	SPACE	26
27	SPACE	--	1		-- --		1	--	SPACE	28
29	SPACE	--	1			-- --	1	--	SPACE	30
		Total Load:		143687 VA	140081 VA	142551 VA				
		Total Amps:		1201 A	1167 A	1191 A				

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Residential per NEC 220.84	444114 VA	41.00%	182087 VA		
				Total Conn. Load:	444114 VA
				Total Est. Demand:	182087 VA
				Total Conn.:	1233 A
				Total Est. Demand:	505 A

Notes:

Branch Panel: DP3

Location: MECH. 3018 **Volts:** 120/208 Wye **A.I.C. Rating:** 25,000 AIC
Supply From: SWBD3 **Phases:** 3 **Mains Type:** MLO
Mounting: SURFACE **Wires:** 4 **Mains Rating:** 800 A
Enclosure: NEMA 1 **MCB Rating:**

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	UNIT D - 3011	125 A	2	16878... 16989...			2	125 A	UNIT C - 3015	2
3	--	--	--		16878... 16989...		--	--	--	4
5	UNIT C - 3013	125 A	2			16989... 19348...	2	150 A	UNIT H2 - 3010	6
7	--	--	--	16989... 19348...			--	--	--	8
9	UNIT G - 3012	150 A	2		17368... 17368...		2	150 A	UNIT G - 3017	10
11	--	--	--			17368... 17368...	--	--	--	12
13	UNIT G - 3019	150 A	2	17368... 19375...			2	150 A	UNIT H1 - 3020	14
15	--	--	--		17368... 19375...		--	--	--	16
17	UNIT H1 - 3021	150 A	2			19375... 17368...	2	150 A	UNIT G - 3018	18
19	--	--	--	19375... 17368...			--	--	--	20
21	UNIT G - 3016	150 A	2		17368... 17368...		2	150 A	UNIT G 3014	22
23	--	--	--			17368... 17368...	--	--	--	24
25	HP3	150 A	3	10639... --			1	--	SPACE	26
27	--	--	--		10687... --		1	--	SPACE	28
29	--	--	--			9697 VA --	1	--	SPACE	30
		Total Load:		154326 VA	150768 VA	152247 VA				
		Total Amps:		1288 A	1256 A	1271 A				

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	5784 VA	75.00%	4338 VA		
Other	90 VA	100.00%	90 VA	**Total Conn. Load:**	475137 VA
Receptacle	6300 VA	100.00%	6300 VA	**Total Est. Demand:**	206899 VA
Lighting	2521 VA	125.00%	3152 VA	**Total Conn.:**	1319 A
Power	912 VA	100.00%	912 VA	**Total Est. Demand:**	574 A
Electric Heat	15416 VA	65.00%	10020 VA		
Residential per NEC 220.84	444114 VA	41.00%	182087 VA		

Notes:

Branch Panel: LR

Location: MECH. 1018 **Volts:** 120/208 Wye **A.I.C. Rating:** 25,000 AIC
Supply From: SWBD3 **Phases:** 3 **Mains Type:** MLO
Mounting: SURFACE **Wires:** 4 **Mains Rating:** 225 A
Enclosure: NEMA 1 **MCB Rating:**

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	FACP (NOTE 1)	20 A	1	500 VA 50 VA			1	20 A	SPRINKLER ELECTRIC BELL	2
3	PUH-1 (GARAGE 1017)	35 A	3		3333 VA 600 VA		1	20 A	MOTORIZED DAMPER GARAGE 1043	4
5	--	--	--			3333 VA 2500 VA	2	30 A	PUH-2 (MECH 1011)	6
7	--	--	--	3333 VA 2500 VA			--	--	--	8
9	PUH-1 (GARAGE 1022)	35 A	3		3333 VA 3333 VA		3	35 A	PUH-1 (GARAGE 1022)	10
11	--	--	--			3333 VA 3333 VA	--	--	--	12
13	--	--	--	3333 VA 3333 VA			--	--	--	14
15	VF-2	20 A	3		576 VA 300 VA		3	20 A	VF-1	16
17	--	--	--			576 VA 300 VA	--	--	--	18
19	--	--	--	576 VA 300 VA			--	--	--	20
21	SPARE	20 A	1		0 VA 0 VA		1	20 A	SPARE	22
23	SPARE	20 A	1			0 VA 0 VA	1	20 A	SPARE	24
25	SPARE	20 A	1	0 VA 0 VA			1	20 A	SPARE	26
27	SPARE	20 A	1		0 VA 0 VA		1	20 A	SPARE	28
29	SPARE	20 A	1			0 VA 0 VA	1	20 A	SPARE	30
31	SPARE	20 A	1	0 VA 0 VA			1	20 A	SPARE	32
33	SPARE	20 A	1		0 VA 0 VA		1	20 A	SPARE	34
35	SPACE	--	1			-- --	1	--	SPACE	36
37	SPACE	--	1	-- --			1	--	SPACE	38
39	SPACE	--	1		-- --		1	--	SPACE	40
41	SPACE	--	1			-- --	1	--	SPACE	42
		Total Load:		13926 VA	11476 VA	13376 VA				
		Total Amps:		118 A	96 A	114 A				

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	2628 VA	75.00%	1971 VA		
Heating	30000 VA	65.00%	19500 VA	**Total Conn. Load:**	38778 VA
Motor	600 VA	108.33%	650 VA	**Total Est. Demand:**	25921 VA
Power	550 VA	100.00%	550 VA	**Total Conn.:**	108 A
Electric Heat	5000 VA	65.00%	3250 VA	**Total Est. Demand:**	72 A

Notes:
1. RED LOCK-ON ATTACHMENT.

GENERAL NOTES

STATE OF MISSOURI
CHRISTOPHER WALKER MILLER
NUMBER PE-2026003254
03/13/2026
PROFESSIONAL ENGINEER

BID SET

PROJECT TITLE

John Knox Village

MEADOWS BUILDING PHASE III

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DESIGNER	DAS	DRAWN	JDM
ARCHITECT	DAS	CHECKED	CIW
ENGINEER	NAD	APPROVED	CIW

NO.	REVISION DESCRIPTION	DATE

DRAWING TITLE
PANELBOARD SCHEDULES

DATE: 03/13/2026
COMM. NO. 25116.00
DRAWING E5.1

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Branch Panel: HP4

Location: MECH. 4018
Supply From: DP4
Mounting: SURFACE
Enclosure: NEMA 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10,000 AIC
Mains Type: MLO
Mains Rating: 225 A
MCB Rating:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	WH4	20 A	1	400 VA	510 VA					2	20 A	CP4	2
3	WH3	20 A	1			400 VA	510 VA			--	--	--	4
5	TMV2 (THERM. MIXING VALVE)	20 A	1					200 VA	510 VA	2	20 A	CP3	6
7	RECEPTACLE -4TH FLR CORR	20 A	1	1440 VA	510 VA					--	--	--	8
9	RECEPTACLE -4TH FLR CORR	20 A	1			1260 VA	540 VA			1	20 A	RECEPTACLE - MECH 4018	10
11	RECEPTACLE - LOBBY 4019	20 A	1					1260 VA	1080 VA	1	20 A	RECEPTACLE -4TH FLR CORR	12
13	LIGHTING - 4TH FLR CORR	20 A	1	973 VA	612 VA					1	20 A	NAC PANEL	14
15	LIGHTING - 4TH FLR CORR	20 A	1			1257 VA	300 VA			1	20 A	FIRE/SMOKE DAMPERS	16
17	LIGHTING - 4TH FLR CORE RMS	20 A	1					279 VA	3890 VA	2	50 A	HP-24 (MECH 4027)	18
19	VTAC-24 (MECH 4018)	35 A	2	2892 VA	3890 VA					--	--	--	20
21	--	--	--			2892 VA	3890 VA			2	50 A	HP-24 (MECH 4018)	22
23	RECEPTACLE - IT 4030	20 A	1					360 VA	3890 VA	--	--	--	24
25	RECEPTACLE - IT 4030	20 A	1	360 VA	90 VA					1	20 A	EF-1 (4037), EF-1 (4039), (2) VF-3 (4027)	26
27	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	28
29	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	30
31	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	32
33	SPACE	--	1			--	--			1	--	SPACE	34
35	SPACE	--	1					--	--	1	--	SPACE	36
37	SPACE	--	1	--	--					1	--	SPACE	38
39	SPACE	--	1			--	--			1	--	SPACE	40
41	SPACE	--	1					--	--	1	--	SPACE	42
		Total Load:		11677 VA		11049 VA		11469 VA					
		Total Amps:		98 A		92 A		96 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	5784 VA	75.00%	4338 VA		
Other	90 VA	100.00%	90 VA	**Total Conn. Load:**	34195 VA
Receptacle	6300 VA	100.00%	6300 VA	**Total Est. Demand:**	27936 VA
Lighting	2509 VA	125.00%	3136 VA	**Total Conn.:**	95 A
Power	3952 VA	100.00%	3952 VA	**Total Est. Demand:**	78 A
Electric Heat	15560 VA	65.00%	10114 VA		

Notes:

Branch Panel: HP2

Location: MECH. 2018
Supply From: DP2
Mounting: SURFACE
Enclosure: NEMA 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10,000 AIC
Mains Type: MLO
Mains Rating: 225 A
MCB Rating:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	SMOKE CURTAIN - 2ND & 3RD - ELEV #1	20 A	1	400 VA	400 VA					1	20 A	WH1	2
3	SMOKE CURTAIN - 2ND & 3RD - ELEV #2	20 A	1			400 VA	200 VA			1	20 A	TMV1 (THERM. MIXING VALVE)	4
5	WH2	20 A	1					400 VA	510 VA	2	20 A	CP1	6
7	CP2	20 A	2	510 VA	510 VA					--	--	--	8
9	--	--	--			510 VA	1260 VA			1	20 A	RECEPTACLE -2ND FLR CORR	10
11	RECEPTACLE -2ND FLR CORR	20 A	1					1440 VA	1260 VA	1	20 A	RECEPTACLE - LOBBY 2019	12
13	RECEPTACLE - MECH 2018	20 A	1	720 VA	1195 VA					1	20 A	LIGHTING - 2ND FLR CORR	14
15	RECEPTACLE - 2ND FLR CORR	20 A	1			1260 VA	906 VA			1	20 A	LIGHTING - 2ND FLR CORE RMS	16
17	LIGHTING - 2ND FLR CORR	20 A	1					987 VA	612 VA	1	20 A	NAC PANEL	18
19	HP-24 (MECH 2027)	50 A	2	3854 VA	1260 VA					1	20 A	RECEPTACLE - ACTIVITY 2014	20
21	--	--	--			3854 VA	1260 VA			1	20 A	RECEPTACLE - ACTIVITY 2014	22
23	FIRE/SMOKE DAMPERS	20 A	1					300 VA	3890 VA	2	50 A	HP-24 (MECH 2018)	24
25	RECEPTACLE - IT 2030	20 A	1	360 VA	3890 VA					--	--	--	26
27	RECEPTACLE - IT 2030	20 A	1			360 VA	3854 VA			2	50 A	HP-24 (MECH 2018)	28
29	VTAC-24 (MECH 2018)	35 A	2					2892 VA	3854 VA	--	--	--	30
31	--	--	--	2892 VA	90 VA					1	20 A	EF-1 (2037), EF-1 (2039), (2) VF-3 (2027)	32
33	DOOR CONTROL PANEL	20 A	1			400 VA	0 VA			1	20 A	SPARE	34
35	SPACE	--	1					--	0 VA	1	20 A	SPARE	36
37	SPACE	--	1	--	0 VA					1	20 A	SPARE	38
39	SPACE	--	1			--	0 VA			1	20 A	SPARE	40
41	SPACE	--	1					--	0 VA	1	20 A	SPARE	42
		Total Load:		16081 VA		14264 VA		16145 VA					
		Total Amps:		136 A		119 A		137 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	5784 VA	75.00%	4338 VA		
Other	556 VA	100.00%	556 VA	**Total Conn. Load:**	46490 VA
Receptacle	9180 VA	100.00%	9180 VA	**Total Est. Demand:**	37681 VA
Lighting	3022 VA	125.00%	3778 VA	**Total Conn.:**	129 A
Power	4752 VA	100.00%	4752 VA	**Total Est. Demand:**	105 A
Electric Heat	23196 VA	65.00%	15077 VA		

Notes:

Branch Panel: HP3

Location: MECH. 3018
Supply From: DP3
Mounting: SURFACE
Enclosure: NEMA 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10,000 AIC
Mains Type: MLO
Mains Rating: 225 A
MCB Rating:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	RECEPTACLE -3RD FLR CORR	20 A	1	1440 VA	540 VA					1	20 A	RECEPTACLE - MECH 3018	2
3	RECEPTACLE -3RD FLR CORR	20 A	1			1260 VA	1080 VA			1	20 A	RECEPTACLE -3RD FLR CORR	4
5	RECEPTACLE - LOBBY 3019	20 A	1					1260 VA	989 VA	1	20 A	LIGHTING - 3RD FLR CORR	6
7	LIGHTING - 3RD FLR CORR	20 A	1	1253 VA	300 VA					1	20 A	FIRE/SMOKE DAMPERS	8
9	LIGHTING - 3RD FLR CORE RMS	20 A	1			279 VA	3854 VA			2	50 A	HP-24 (MECH 3027)	10
11	NAC PANEL	20 A	1					612 VA	3854 VA	--	--	--	12
13	RECEPTACLE - IT 3030	20 A	1	360 VA	3854 VA					2	50 A	HP-24 (MECH 3018)	14
15	RECEPTACLE - IT 3030	20 A	1			360 VA	3854 VA			--	--	--	16
17	VTAC-24 (MECH 3018)	35 A	2					2892 VA	90 VA	1	20 A	EF-1 (3037), EF-1 (3039), (2) VF-3 (3027)	18
19	--	--	--	2892 VA	0 VA					1	20 A	SPARE	20
21	SPACE	--	1			--	0 VA			1	20 A	SPARE	22
23	SPACE	--	1					--	0 VA	1	20 A	SPARE	24
25	SPACE	--	1	--	0 VA					1	20 A	SPARE	26
27	SPACE	--	1			--	0 VA			1	20 A	SPARE	28
29	SPACE	--	1					--	0 VA	1	20 A	SPARE	30
31	SPACE	--	1	--	--					1	--	SPACE	32
33	SPACE	--	1			--	--			1	--	SPACE	34
35	SPACE	--	1					--	--	1	--	SPACE	36
37	SPACE	--	1	--	--					1	--	SPACE	38
39	SPACE	--	1			--	--			1	--	SPACE	40
41	SPACE	--	1					--	--	1	--	SPACE	42
		Total Load:		10639 VA		10687 VA		9697 VA					
		Total Amps:		90 A		90 A		81 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	5784 VA	75.00%	4338 VA		
Other	90 VA	100.00%	90 VA	**Total Conn. Load:**	31023 VA
Receptacle	6300 VA	100.00%	6300 VA	**Total Est. Demand:**	24812 VA
Lighting	2521 VA	125.00%	3152 VA	**Total Conn.:**	86 A
Power	912 VA	100.00%	912 VA	**Total Est. Demand:**	69 A
Electric Heat	15416 VA	65.00%	10020 VA		

Notes:

Branch Panel: HPG1

Location: MECH. 1018
Supply From: SWBD3
Mounting: SURFACE
Enclosure: NEMA 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 25,000 AIC
Mains Type: MLO
Mains Rating: 600 A
MCB Rating:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	ELEV #1 PIT RECEPTACLE	20 A	1	180 VA	320 VA					1	20 A	LIGHTING - STAIR 1	2
3	ELEV #2 PIT RECEPTACLE	20 A	1			180 VA	320 VA			1	20 A	LIGHTING - STAIR 2	4
5	ELEVATOR #1 SUMP PUMP	20 A	1					1176 VA	288 VA	1	20 A	LIGHTING - STAIR 3	6
7	ELEV PIT LIGHTING	20 A	1	270 VA	1819 VA					1	30 A	GARAGE LIGHTING	8
9	GARAGE LIGHTING	30 A	1			1723 VA	1176 VA			1	20 A	ELEVATOR #2 SUMP PUMP	10
11	GARAGE LIGHTING	30 A	1					2178 VA	200 VA	1	20 A	SMOKE CURTAIN - GARAGE - ELEV #2	12
13	GARAGE OVERHEAD DOOR	20 A	3	936 VA	200 VA					1	20 A	SMOKE CURTAIN - GARAGE - ELEV #1	14
15	--	--	--			936 VA	936 VA			3	20 A	GARAGE OVERHEAD DOOR	16
17	--	--	--					936 VA	936 VA	--	--	--	18
19	WUH-1 (MECH 1026)	20 A	1	1500 VA	936 VA					--	--	--	20
21	RECEPTACLE - GARAGE	20 A	1			900 VA	900 VA			1	20 A	RECEPTACLE - GARAGE	22
23	RECEPTACLE - GARAGE	20 A	1					1260 VA	540 VA	1	20 A	RECEPTACLE - GARAGE LOBBY	24
25	RECEPTACLE - GARAGE	20 A	1	1260 VA	720 VA					1	20 A	RECEPTACLE - EXT.	26
27	LIGHTING - GARAGE RMS/LOBBY	20 A	1			504 VA	200 VA			1	20 A	GARAGE VENT. CONTROL PANEL	28
29	AUTO DOOR OPERATOR - LOBBY 1039	20 A	1					400 VA	540 VA	1	20 A	LIGHTING -EXTERIOR	30
31	GARAGE VENT. CONTROL PANEL	20 A	1	200 VA	1500 VA					1	20 A	WUH-1 (STAIR 2)	32
33	WUH-2 - STAIR #3	25 A	2			2000 VA	2000 VA			2	25 A	WUH-2 - STAIR #1	34
35	--	--	--					2000 VA	2000 VA	--	--	--	36
37	VTAC-24 (LOBBY 1019)	35 A	2	2892 VA	2500 VA					2	30 A	PUH-2 (MECH 1018)	38
39	--	--	--			2892 VA	2500 VA			--	--	--	40
41	PUH-1 (GARAGE 1022)	35 A	3					3333 VA					42
43	--	--	--	3333 VA	3333 VA					3	35 A	PUH-1 (GARAGE 1022)	44
45	--	--	--			3333 VA	3333 VA			--	--	--	46
47	PUH-1 (GARAGE 1017)	35 A	3					3333 VA	3333 VA	--	--	--	48
49	--	--	--	3333 VA	3333 VA					3	35 A	PUH-1 (GARAGE 1022)	50
51	--	--	--			3333 VA	3333 VA			--	--	--	52
53	PUH-1 (GARAGE 1017)	35 A	3					3333 VA	3333 VA	--	--	--	54
55	--	--	--	3333 VA	3333 VA					3	35 A	PUH-1 (GARAGE 1022)	56
57	--	--	--			3333 VA	3333 VA			--	--	--	58
59	PUH-1 (GARAGE 1017)	35 A	3					3333 VA	3333 VA	--	--	--	60
61	--	--	--	3333 VA	3333 VA					3	35 A	PUH-1 (GARAGE 1022)	62
63	--	--	--			3333 VA	3333 VA			--	--	--	64
65	PUH-1 (GARAGE 1017)	35 A	3					3333 VA	3333 VA	--	--	--	66
67	--	--	--	3333 VA	3333 VA					3	35 A	PUH-1 (GARAGE 1022)	68
69	--	--	--			3333 VA	3333 VA			--	--	--	70
71	PUH-1 (GARAGE 1017)	35 A	3					3333 VA	3333 VA	--	--	--	72
73	--	--	--	3333 VA	3333 VA					3	35 A	PUH-1 (GARAGE 1022)	74
75	--	--	--			3333 VA	3333 VA			--	--	--	76
77	SPARE	20 A	1					0 VA	3333 VA	--	--	--	78
79	SPARE	20 A	1	0 VA	3333 VA					3	35 A	PUH-1 (GARAGE 1022)	80
81	SPARE	20 A	1			0 VA	3333 VA			--	--	--	82
83	SPARE	20 A	1					0 VA	3333 VA	--	--	--	84
		Total Load:		58566 VA		60500 VA		55788 VA					
		Total Amps:		492 A		508 A		465 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Heating	130000 VA	65.00%	84500 VA		
Motor	5616 VA	112.50%	6318 VA	**Total Conn. Load:**	174854 VA
Receptacle	5940 VA	100.00%	5940 VA	**Total Est. Demand:**	126447 VA
Lighting	7962 VA	125.00%	9953 VA	**Total Conn.:**	485 A
Power	9336 VA	100.00%	9336 VA	**Total Est. Demand:**	351 A
Electric Heat	16000 VA	65.00%	10400 VA		

Notes:

Branch Panel: HPG2

Location: MECH. 1018
Supply From: SWBD3
Mounting: SURFACE
Enclosure: NEMA 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 25,000 AIC
Mains Type: MLO
Mains Rating: 600 A
MCB Rating:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	EV CHARGER	80 A	2	5200 VA	5200 VA					2	80 A	EV CHARGER	2
3	--	--	--			5200 VA	5200 VA			--	--	--	4
5	EV CHARGER	80 A	2					5200 VA	5200 VA	2	80 A	EV CHARGER	6
7	--	--	--	5200 VA	5200 VA					--	--	--	8
9	EV CHARGER	80 A	2			5200 VA	5200 VA			2	80 A	EV CHARGER (FUTURE)	10
11	--	--	--					5200 VA	5200 VA	--	--	--	12
13	EV CHARGER (FUTURE)	80 A	2	5200 VA	5200 VA					2	80 A	EV CHARGER (FUTURE)	14
15	--	--	--			5200 VA	5200 VA			--	--	--	16
17	EV CHARGER (FUTURE)	80 A	2					5200 VA	5200 VA	2	80 A	EV CHARGER (FUTURE)	18
19	--	--	--	5200 VA	5200 VA					--	--	--	20
21	EV CHARGER (FUTURE)	80 A	2			5200 VA	5200 VA			2	80 A	EV CHARGER (FUTURE)	22
23	--	--	--					5200 VA	5200 VA	--	--	--	24
25	EV CHARGER (FUTURE)	80 A	2	5200 VA	5200 VA					2	80 A	EV CHARGER (FUTURE)	26
27	--	--	--			5200 VA	5200 VA			--	--	--	28
29	EV CHARGER (FUTURE)	80 A	2					5200 VA	5200 VA	2	80 A	EV CHARGER (FUTURE)	30
31	--	--	--	5200 VA	5200 VA					--	--	--	32
33	EV CHARGER (FUTURE)	80 A	2			5200 VA	5200 VA			2	80 A	EV CHARGER (FUTURE)	34
35	--	--	--					5200 VA	5200 VA	--	--	--	36
37	SPACE	--	1	--	--					1	--	SPACE	38
39	SPACE	--	1			--	--			1	--	SPACE	40
41	SPACE	--	1					--	--	1	--	SPACE	42
43	SPACE	--	1	--	--					1	--	SPACE	44
45	SPACE	--	1			--	--			1	--	SPACE	46
47	SPACE	--	1					--	--	1	--	SPACE	48
49	SPACE	--	1	--	--					1	--	SPACE	50
51	SPACE	--	1			--	--			1	--	SPACE	52
53	SPACE	--	1					--	--	1	--	SPACE	54
55	SPACE	--	1	--	--					1	--	SPACE	56
57	SPACE	--	1			--	--			1	--	SPACE	58
59	SPACE	--	1					--	--	1	--	SPACE	60
		Total Load:		62400 VA		62400 VA		62400 VA					
		Total Amps:		520 A		520 A		520 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
EV Charging	187200 VA	100.00%	187200 VA		
				Total Conn. Load:	187200 VA
				Total Est. Demand:	187200 VA
				Total Conn.:	520 A
				Total Est. Demand:	520 A

Notes:

GENERAL NOTES

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STATE OF MISSOURI
CHRISTOPHER D. WIALL
NUMBER PE-2009009754
PROFESSIONAL ENGINEER
BID SET

PROJECT TITLE
John Knox Village
MEADOWS BUILDING PHASE III

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DESIGNER : DAS		DRAWN : JDM	
ARCHITECT : DAS		CHECKED : CIW	
ENGINEER : NAD		APPROVED : CIW	

NO.	REVISION DESCRIPTION	DATE

DRAWING TITLE
PANELBOARD SCHEDULES

DATE: 03/13/2026
COMM. NO. 25116.00
DRAWING E5.2

Branch Panel: HP5D

Location: MECH. 5018 | **Volts:** 120/208 Wye | **A.I.C. Rating:** 25,000 AIC
Supply From: HP5C | **Phases:** 3 | **Mains Type:** MLO
Mounting: SURFACE | **Wires:** 4 | **Mains Rating:** 400 A
Enclosure: NEMA 1 | **MCB Rating:**

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	HP-24 (MECH 2027)	20 A	2	1013 VA	1013 VA		2	20 A	HP-24 (MECH 2018)	2
3	--	--	--		1013 VA	1013 VA	--	--	--	4
5	HP-24 (MECH 3027)	20 A	2			1013 VA	1013 VA	2	20 A	HP-24 (MECH 3018)	6
7	--	--	--	1013 VA	1013 VA		--	--	--	8
9	HP-24 (MECH 4027)	20 A	2		1013 VA	1013 VA	2	20 A	HP-24 (MECH 4018)	10
11	--	--	--			1013 VA	1013 VA	--	--	--	12
13	HP-24 (MECH 5027)	20 A	2	1013 VA	1013 VA		2	20 A	HP-24 (MECH 5018)	14
15	--	--	--		1013 VA	1013 VA	--	--	--	16
17	HP-36 (2021)	30 A	2			1533 VA	1533 VA	2	30 A	HP-36 (2019)	18
19	--	--	--	1533 VA	1533 VA		--	--	--	20
21	HP-36 (3021)	30 A	2		1533 VA	1533 VA	2	30 A	HP-36 (3019)	22
23	--	--	--			1533 VA	1533 VA	--	--	--	24
25	HP-36 (4021)	30 A	2	1533 VA	1533 VA		2	30 A	HP-36 (4019)	26
27	--	--	--	1533 VA	1533 VA		--	--	--	28
29	HP-36 (5021)	30 A	2			1533 VA	1533 VA	2	30 A	HP-36 (5019)	30
31	--	--	--	1533 VA	1533 VA		--	--	--	32
33	HP-36 (3014)	30 A	2		1533 VA	1533 VA	2	30 A	HP-36 (5014)	34
35	--	--	--			1533 VA	1533 VA	--	--	--	36
37	HP-36 (2012)	30 A	2	1533 VA	1533 VA		2	30 A	HP-36 (4012)	38
39	--	--	--		1533 VA	1533 VA	--	--	--	40
41	HP-36 (3012)	30 A	2			1533 VA	0 VA	2	30 A	SPARE	42
43	--	--	--	1533 VA	0 VA		--	--	--	44
45	HP-36 (5012)	30 A	2		1533 VA	0 VA	2	20 A	SPARE	46
47	--	--	--			1533 VA	0 VA	--	--	--	48
49	SPACE	--	1	--	--		1	--	SPACE	50
51	SPACE	--	1		--	--	1	--	SPACE	52
53	SPACE	--	1			--	--	1	--	SPACE	54
55	SPACE	--	1	--	--		1	--	SPACE	56
57	SPACE	--	1		--	--	1	--	SPACE	58
59	SPACE	--	1			--	--	1	--	SPACE	60
		Total Load:		19875 VA	19875 VA	19382 VA				
		Total Amps:		166 A	166 A	162 A				

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	59132 VA	75.00%	44349 VA		
				Total Conn. Load:	59132 VA
				Total Est. Demand:	44349 VA
				Total Conn.:	164 A
				Total Est. Demand:	123 A

Notes:

Branch Panel: HP5C

Location: MECH. 5018 | **Volts:** 120/208 Wye | **A.I.C. Rating:** 25,000 AIC
Supply From: SWBD3 | **Phases:** 3 | **Mains Type:** MLO
Mounting: SURFACE | **Wires:** 4 | **Mains Rating:** 400 A
Enclosure: NEMA 1 | **MCB Rating:**

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	HP-36 (4016)	30 A	2	1533 VA	1533 VA		2	30 A	HP-36 (3016)	2
3	--	--	--		1533 VA	1533 VA	--	--	--	4
5	HP-36 (5016)	30 A	2			1533 VA	1533 VA	2	30 A	HP-36 (2016)	6
7	--	--	--	1533 VA	1533 VA		--	--	--	8
9	HP-36 (5017)	30 A	2		1533 VA	1533 VA	2	30 A	HP-36 (4017)	10
11	--	--	--			1533 VA	1533 VA	--	--	--	12
13	HP-36 (2017)	30 A	2	1533 VA	1533 VA		2	30 A	HP-36 (5018)	14
15	--	--	--		1533 VA	1533 VA	--	--	--	16
17	HP-36 (3017)	30 A	2			1533 VA	1533 VA	2	30 A	HP-36 (4018)	18
19	--	--	--	1533 VA	1533 VA		--	--	--	20
21	HP-36 (3018)	30 A	2		1533 VA	1533 VA	2	30 A	HP-36 (2018)	22
23	--	--	--			1533 VA	1533 VA	--	--	--	24
25	HP-24 (MECH 2020)	20 A	2	1013 VA	1533 VA		2	30 A	HP-36 (4020)	26
27	--	--	--		1013 VA	1533 VA	--	--	--	28
29	HP-36 (3020)	30 A	2			1533 VA	1533 VA	2	30 A	HP-36 (5020)	30
31	--	--	--	1533 VA	1533 VA		--	--	--	32
33	HP-36 (2014)	30 A	2		1533 VA	1533 VA	2	30 A	HP-36 (4014)	34
35	--	--	--			1533 VA	1533 VA	--	--	--	36
37	HP-36 (5010)	30 A	2	1533 VA	1533 VA		2	30 A	HP-36 (3010)	38
39	--	--	--		1533 VA	1533 VA	--	--	--	40
41	HP-36 (4010)	30 A	2			1533 VA	0 VA	2	20 A	SPARE	42
43	--	--	--	1533 VA	0 VA		--	--	--	44
45	HP-36 (2010)	30 A	2		1533 VA	0 VA	2	30 A	SPARE	46
47	--	--	--			1533 VA	0 VA	--	--	--	48
49	SPACE	--	1	--	--		1	--	SPACE	50
51	SPACE	--	1		--	--	1	--	SPACE	52
53	SPACE	--	1			--	--	1	--	SPACE	54
55	SPACE	--	1	--	--		1	--	SPACE	56
57	SPACE	--	1		--	--	1	--	SPACE	58
59	SPACE	--	1			--	--	1	--	SPACE	60
		Total Load:		42350 VA	42350 VA	40844 VA				
		Total Amps:		355 A	355 A	340 A				

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	125544 VA	75.00%	94158 VA		
				Total Conn. Load:	125544 VA
				Total Est. Demand:	94158 VA
				Total Conn.:	348 A
				Total Est. Demand:	261 A

Notes:
FEED-THRU LUGS

Branch Panel: HP5A

Location: MECH. 5018 | **Volts:** 120/208 Wye | **A.I.C. Rating:** 25,000 AIC
Supply From: SWBD3 | **Phases:** 3 | **Mains Type:** MLO
Mounting: SURFACE | **Wires:** 4 | **Mains Rating:** 400 A
Enclosure: NEMA 1 | **MCB Rating:**

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	ELEVATOR #1	80 A	3	5173 VA	5173 VA		3	80 A	ELEVATOR #2	2
3	--	--	--		5173 VA	5173 VA	--	--	--	4
5	--	--	--			5173 VA	5173 VA	--	--	--	6
7	ELEVATOR #1 CAB LTS/CONTROLS (SHT)	20 A	1	1500 VA	612 VA		1	20 A	NAC PANEL	8
9	ELEV #1 SHAFT RECEPTACLE (SHT)	20 A	1		180 VA	180 VA	1	20 A	ELEV #2 SHAFT RECEPTACLE (SHT)	10
11	VTAC-24 (MECH 5018)	35 A	2			2892 VA	1500 VA	1	20 A	ELEVATOR #2 CAB LTS/CONTROLS (SHT)	12
13	--	--	--	2892 VA	1260 VA		1	20 A	RECEPTACLE -5TH FLR CORR	14
15	FIRE/SMOKE DAMPERS	20 A	1		100 VA	1260 VA	1	20 A	RECEPTACLE - LOBBY 5019	16
17	SMOKE CURTAIN - 4TH & 5TH - ELEV #1	20 A	1			400 VA	540 VA	1	20 A	RECEPTACLE - MECH 5018	18
19	SMOKE CURTAIN - 4TH & 5TH - ELEV #2	20 A	1	400 VA	279 VA			1	20 A	LIGHTING - 5TH FLR CORE RMS	20
21	RECEPTACLE -5TH FLR CORR	20 A	1			1440 VA	270 VA	1	20 A	ELEV SHAFT LIGHTING	22
23	RECEPTACLE -5TH FLR CORR	20 A	1				1080 VA	900 VA	1	20 A	RECEPTACLE - ROOF	24
25	LIGHTING - 5TH FLR CORR	20 A	1	989 VA	3890 VA			2	50 A	HP-24 (MECH 5027)	26
27	LIGHTING - 5TH FLR CORR	20 A	1		1248 VA	3890 VA		--	--	--	28
29	RECEPTACLE - IT 5030	20 A	1			360 VA	1664 VA	2	30 A	DSS-1 (2030)	30
31	RECEPTACLE - IT 5030	20 A	1	360 VA	1664 VA			--	--	--	32
33	WUH-1 (STAIR 3)	20 A	1		1500 VA	3890 VA		2	50 A	HP-24 (MECH 5018)	34
35	EF-1 (5037), EF-1 (5039), (2) VF-3 (5027)	20 A	1				90 VA	3890 VA	--	--	36
37	LIGHTING - ROOF & ATTIC	20 A	1	968 VA	0 VA			1	20 A	SPARE	38
39	SPARE	20 A	1		0 VA	0 VA		1	20 A	SPARE	40
41	SPARE	20 A	1			0 VA	0 VA	1	20 A	SPARE	42
43	SPARE	20 A	1	0 VA	0 VA			1	20 A	SPARE	44
45	SPARE	20 A	1		0 VA	0 VA		1	20 A	SPARE	46
47	SPARE	20 A	1			0 VA	0 VA	1	20 A	SPARE	48
49	SPARE	20 A	1	0 VA	0 VA			1	20 A	SPARE	50
51	SPARE	20 A	1		0 VA	0 VA		1	20 A	SPARE	52
53	SPARE	20 A	1			0 VA	0 VA	1	20 A	SPARE	54
55	SPARE	20 A	1	0 VA	0 VA			1	20 A	SPARE	56
57	SPARE	20 A	1		0 VA	0 VA		1	20 A	SPARE	58
59	SPARE	20 A	1			0 VA	0 VA	1	20 A	SPARE	60
61	SPACE	--	1	--	--			1	--	SPACE	62
63	SPACE	--	1		--	--		1	--	SPACE	64
65	SPACE	--	1			--	--	1	--	SPACE	66
67	SPACE	--	1	--	--			1	--	SPACE	68
69	SPACE	--	1		--	--		1	--	SPACE	70
71	SPACE	--	1			--	--	1	--	SPACE	72
		Total Load:		25160 VA	24305 VA	23663 VA				
		Total Amps:		210 A	203 A	197 A				

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Elevator	31040 VA	95.00%	29488 VA		
HVAC	9112 VA	75.00%	6834 VA	**Total Conn. Load:**	73128 VA
Other	90 VA	100.00%	90 VA	**Total Est. Demand:**	64266 VA
Receptacle	7560 VA	100.00%	7560 VA	**Total Conn.:**	203 A
Lighting	3754 VA	125.00%	4693 VA	**Total Est. Demand:**	178 A
Power	4512 VA	100.00%	4512 VA		
Electric Heat	17060 VA	65.00%	11089 VA		

Notes:
SHT = SHUNT TRIP BREAKER

GENERAL NOTES

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Drafting for: John Knox Village of Virginia
305 South Jefferson Street
Roanoke, Virginia 24011-2003

CHRISTOPHER WIALLACE MILLER
NUMBER
PE-2026000254
STATE OF MISSOURI
PROFESSIONAL ENGINEER

BID SET

PROJECT TITLE

John Knox Village

MEADOWS BUILDING PHASE III

SFCS Architecture Engineering Planning Interiors
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DESIGNER : DAS	DRAWN : JDM
ARCHITECT : DAS	CHECKED : CIW
ENGINEER : NAD	APPROVED : CIW

NO.	REVISION DESCRIPTION	DATE

DRAWING TITLE
PANELBOARD SCHEDULES

DATE: 03/13/2026
COMM. NO. 25116.00
DRAWING E5.3

Branch Panel: LC-H1

Location: Space 3
Supply From:
Mounting: FLUSH
Enclosure: NEMA 1

Volts: 120/208 Single
Phases: 1
Wires: 3

A.I.C. Rating: 10,000 AIC
Mains Type: MLO
Mains Rating: 150 A
MCB Rating:

Notes:

CKT	Circuit Description	Trip	Poles	A		B		Poles	Trip	Circuit Description	CKT
1	LIGHTING	20 A	1	684 VA	1600 VA			2	20 A	OVEN	2
3	RECPT - KITCHEN	20 A	1			720 VA	1600 VA	--	--	--	4
5	RECPT - KITCHEN	20 A	1	900 VA	2800 VA			2	30 A	COOKTOP	6
7	MICROWAVE	20 A	1			1000 VA	2800 VA	--	--	--	8
9	REFRIGERATOR	20 A	1	800 VA	2500 VA			2	30 A	CLOTHES DRYER	10
11	DISPOSAL	20 A	1			750 VA	2500 VA	--	--	--	12
13	DISHWASHER	20 A	1	750 VA	1180 VA			1	20 A	CLOTHES WASHER	14
15	RECPT - LIVING ROOM	20 A	1			1080 VA	1260 VA	1	20 A	RECPT - BEDROOM	16
17	GFI RECPT - PORCH	20 A	1	360 VA	465 VA			1	20 A	GFI RECPT - PRI. BATHROOM	18
19	RECEPTACLE	20 A	1			900 VA	285 VA	1	20 A	GFI RECPT - BATHROOM	20
21	RECPT - COMM ENCLOSURE	20 A	1	180 VA	1440 VA			1	20 A	RECPT - BEDROOM	22
23	HP-36 (H1 UNIT-CKT#1)	50 A	2			4046 VA	1260 VA	1	20 A	RECPT - DINING & ENTRY	24
25	--	--	--	4046 VA	1800 VA			2	25 A	HP-36 (H1 UNIT-CKT#2)	26
27	SPARE	20 A	1	--	--	0 VA	1800 VA	--	--	--	28
29	SPARE	20 A	1	0 VA	0 VA			1	20 A	SPARE	30
			Total Load:	19505 VA		20001 VA					
			Total Amps:	188 A		192 A					

Legend:

Notes:
ALL 15 AND 20A/1P CIRCUIT BREAKERS SUPPLYING OUTLETS INSTALLED IN DWELLING UNIT KITCHENS, FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, DENS, BEDROOMS, CLOSETS, HALLWAYS, LAUNDRY AREAS, OR SIMILAR ROOMS SHALL BE AFCI (ARC-FAULT CIRCUIT-INTERRUPTER) TYPE PER NEC 210.12(A).

Branch Panel: LC-C

Location: UNIT C TYPE A 2013
Supply From:
Mounting: FLUSH
Enclosure: NEMA 1

Volts: 120/208 Single
Phases: 1
Wires: 3

A.I.C. Rating: 10,000 AIC
Mains Type: MLO
Mains Rating: 125 A
MCB Rating:

Notes:

CKT	Circuit Description	Trip	Poles	A		B		Poles	Trip	Circuit Description	CKT
1	LIGHTING	20 A	1	554 VA	1600 VA			2	20 A	OVEN	2
3	RECPT - KITCHEN	20 A	1			720 VA	1600 VA	--	--	--	4
5	RECPT - KITCHEN	20 A	1	720 VA	2800 VA			2	30 A	COOKTOP	6
7	MICROWAVE	20 A	1			1000 VA	2800 VA	--	--	--	8
9	REFRIGERATOR	20 A	1	800 VA	2500 VA			2	30 A	CLOTHES DRYER	10
11	DISPOSAL	20 A	1			750 VA	2500 VA	--	--	--	12
13	DISHWASHER	20 A	1	750 VA	1180 VA			1	20 A	CLOTHES WASHER	14
15	RECPT - LIVING ROOM	20 A	1			1080 VA	1620 VA	1	20 A	RECPT - BEDROOM	16
17	GFI RECPT - PORCH	20 A	1	360 VA	450 VA			1	20 A	GFI RECPT - PRI. BATHROOM	18
19	RECPT - DEN	20 A	1			720 VA	270 VA	1	20 A	GFI RECPT - BATHROOM	20
21	RECPT - LIVING ROOM & ENTRY	20 A	1	900 VA	180 VA			1	20 A	RECPT - COMM ENCLOSURE	22
23	VTAC-24 (C UNIT)	35 A	2			2892 VA	0 VA	1	20 A	SPARE	24
25	--	--	--	2892 VA	0 VA			1	20 A	SPARE	26
27	SPARE	20 A	1	--	--	0 VA	0 VA	1	20 A	SPARE	28
29	SPARE	20 A	1	0 VA	0 VA			1	20 A	SPARE	30
31	SPACE	--	1			--	--	1	--	SPACE	32
			Total Load:	15686 VA		15952 VA					
			Total Amps:	151 A		153 A					

Legend:

Notes:
ALL 15 AND 20A/1P CIRCUIT BREAKERS SUPPLYING OUTLETS INSTALLED IN DWELLING UNIT KITCHENS, FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, DENS, BEDROOMS, CLOSETS, HALLWAYS, LAUNDRY AREAS, OR SIMILAR ROOMS SHALL BE AFCI (ARC-FAULT CIRCUIT-INTERRUPTER) TYPE PER NEC 210.12(A).

Branch Panel: LC-H2

Location: UNIT H-2 2010
Supply From:
Mounting: FLUSH
Enclosure: NEMA 1

Volts: 120/208 Single
Phases: 1
Wires: 3

A.I.C. Rating: 10,000 AIC
Mains Type: MLO
Mains Rating: 150 A
MCB Rating:

Notes:

CKT	Circuit Description	Trip	Poles	A		B		Poles	Trip	Circuit Description	CKT
1	LIGHTING	20 A	1	648 VA	1600 VA			2	20 A	OVEN	2
3	RECPT - KITCHEN	20 A	1			720 VA	1600 VA	--	--	--	4
5	RECPT - KITCHEN	20 A	1	720 VA	2800 VA			2	30 A	COOKTOP	6
7	MICROWAVE	20 A	1			1000 VA	2800 VA	--	--	--	8
9	REFRIGERATOR	20 A	1	800 VA	2500 VA			2	30 A	CLOTHES DRYER	10
11	DISPOSAL	20 A	1			750 VA	2500 VA	--	--	--	12
13	DISHWASHER	20 A	1	750 VA	1180 VA			1	20 A	CLOTHES WASHER	14
15	RECPT - LIVING ROOM	20 A	1			1260 VA	1260 VA	1	20 A	RECPT - BEDROOM	16
17	GFI RECPT - PORCH	20 A	1	360 VA	465 VA			1	20 A	GFI RECPT - PRI. BATHROOM	18
19	RECPT - BEDROOM	20 A	1			1620 VA	285 VA	1	20 A	GFI RECPT - BATHROOM	20
21	RECPT - DINING & ENTRY	20 A	1	900 VA	180 VA			1	20 A	RECPT - COMM ENCLOSURE	22
23	HP-36 (H2 UNIT-CKT#1)	50 A	2			4046 VA	1800 VA	2	25 A	HP-36 (H2 UNIT-CKT#2)	24
25	--	--	--	4046 VA	1800 VA			--	--	--	26
27	SPARE	20 A	1			0 VA	0 VA	1	20 A	SPARE	28
29	SPARE	20 A	1	0 VA	0 VA			1	20 A	SPARE	30
			Total Load:	18749 VA		19641 VA					
			Total Amps:	180 A		188 A					

Legend:

Notes:
ALL 15 AND 20A/1P CIRCUIT BREAKERS SUPPLYING OUTLETS INSTALLED IN DWELLING UNIT KITCHENS, FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, DENS, BEDROOMS, CLOSETS, HALLWAYS, LAUNDRY AREAS, OR SIMILAR ROOMS SHALL BE AFCI (ARC-FAULT CIRCUIT-INTERRUPTER) TYPE PER NEC 210.12(A).

Branch Panel: LC-D

Location: UNIT D 2011
Supply From:
Mounting: FLUSH
Enclosure: NEMA 1

Volts: 120/208 Single
Phases: 1
Wires: 3

A.I.C. Rating: 10,000 AIC
Mains Type: MLO
Mains Rating: 125 A
MCB Rating:

Notes:

CKT	Circuit Description	Trip	Poles	A		B		Poles	Trip	Circuit Description	CKT
1	LIGHTING	20 A	1	549 VA	1600 VA			2	20 A	OVEN	2
3	RECPT - KITCHEN	20 A	1			360 VA	1600 VA	--	--	--	4
5	RECPT - KITCHEN	20 A	1	720 VA	2800 VA			2	30 A	COOKTOP	6
7	MICROWAVE	20 A	1			1000 VA	2800 VA	--	--	--	8
9	REFRIGERATOR	20 A	1	800 VA	2500 VA			2	30 A	CLOTHES DRYER	10
11	DISPOSAL	20 A	1			750 VA	2500 VA	--	--	--	12
13	DISHWASHER	20 A	1	750 VA	1180 VA			1	20 A	CLOTHES WASHER	14
15	RECPT - LIVING ROOM & ENTRY	20 A	1			900 VA	1620 VA	1	20 A	RECPT - BEDROOM	16
17	GFI RECPT - PORCH	20 A	1	360 VA	465 VA			1	20 A	GFI RECPT - PRI. BATHROOM	18
19	RECPT - DEN	20 A	1			900 VA	285 VA	1	20 A	GFI RECPT - BATHROOM	20
21	RECPT - COMM ENCLOSURE	20 A	1	180 VA	900 VA			1	20 A	RECPT - ENTRY, LR, HALL	22
23	VTAC-24 (D UNIT)	35 A	2			2892 VA	0 VA	1	20 A	SPARE	24
25	--	--	--	2892 VA	0 VA			1	20 A	SPARE	26
27	SPARE	20 A	1			0 VA	0 VA	1	20 A	SPARE	28
29	SPARE	20 A	1	0 VA	0 VA			1	20 A	SPARE	30
31	SPACE	--	1			--	--	1	--	SPACE	32
			Total Load:	15696 VA		15607 VA					
			Total Amps:	151 A		150 A					

Legend:

Notes:
ALL 15 AND 20A/1P CIRCUIT BREAKERS SUPPLYING OUTLETS INSTALLED IN DWELLING UNIT KITCHENS, FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, DENS, BEDROOMS, CLOSETS, HALLWAYS, LAUNDRY AREAS, OR SIMILAR ROOMS SHALL BE AFCI (ARC-FAULT CIRCUIT-INTERRUPTER) TYPE PER NEC 210.12(A).

Branch Panel: LC-G

Location: UNIT G 2012
Supply From:
Mounting: FLUSH
Enclosure: NEMA 1

Volts: 120/208 Single
Phases: 1
Wires: 3

A.I.C. Rating: 10,000 AIC
Mains Type: MLO
Mains Rating: 150 A
MCB Rating:

Notes:

CKT	Circuit Description	Trip	Poles	A		B		Poles	Trip	Circuit Description	CKT
1	LIGHTING	20 A	1	659 VA	1600 VA			2	20 A	OVEN	2
3	RECPT - KITCHEN	20 A	1			720 VA	1600 VA	--	--	--	4
5	RECPT - KITCHEN	20 A	1	540 VA	2800 VA			2	30 A	COOKTOP	6
7	MICROWAVE	20 A	1			1000 VA	2800 VA	--	--	--	8
9	REFRIGERATOR	20 A	1	800 VA	2500 VA			2	20 A	CLOTHES DRYER	10
11	DISPOSAL	20 A	1			750 VA	2500 VA	--	--	--	12
13	DISHWASHER	20 A	1	750 VA	1180 VA			1	20 A	CLOTHES WASHER	14
15	RECPT - LIVING ROOM	20 A	1			1260 VA	1440 VA	1	20 A	RECPT - BEDROOM	16
17	GFI RECPT - PORCH	20 A	1	180 VA	450 VA			1	20 A	GFI RECPT - PRI. BATHROOM	18
19	RECPT - BEDROOM	20 A	1			1440 VA	270 VA	1	20 A	GFI RECPT - BATHROOM	20
21	RECEPTACLE	20 A	1	540 VA	180 VA			1	20 A	RECPT - COMM ENCLOSURE	22
23	HP-36 (G UNIT-CKT#2)	25 A	2			1800 VA	4046 VA	2	50 A	HP-36 (G UNIT-CKT#1)	24
25	--	--	--	1800 VA	4046 VA			--	--	--	26
27	SPARE	20 A	1			0 VA	0 VA	1	20 A	SPARE	28
29	SPARE	20 A	1	0 VA	0 VA			1	20 A	SPARE	30
			Total Load:	18025 VA		19626 VA					
			Total Amps:	173 A		187 A					

Legend:

Notes:
ALL 15 AND 20A/1P CIRCUIT BREAKERS SUPPLYING OUTLETS INSTALLED IN DWELLING UNIT KITCHENS, FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, DENS, BEDROOMS, CLOSETS, HALLWAYS, LAUNDRY AREAS, OR SIMILAR ROOMS SHALL BE AFCI (ARC-FAULT CIRCUIT-INTERRUPTER) TYPE PER NEC 210.12(A).

GENERAL NOTES

BID SET

PROJECT TITLE

John Knox Village

MEADOWS BUILDING PHASE III

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DESIGNER : DAS	DRAWN : JDM
ARCHITECT : DAS	CHECKED : CIW
ENGINEER : NAD	APPROVED : CIW

NO.	REVISION DESCRIPTION	DATE

DRAWING TITLE

PANELBOARD SCHEDULES

DATE: 03/13/2026
COMM. NO. 25116.00
DRAWING E5.4

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MECHANICAL EQUIPMENT ELECTRICAL CONNECTION SCHEDULE

Load Name	Description	Load (VA)	Voltage	# of Poles	Wire Size	# of Runs	Disconnect	Panel	Circuit Number	Rating	Remarks
CP1	CIRCULATING PUMP	1020 VA	208 V	2	2-#12, 1-#12	1	2P, 30A, 240V, NEMA 1 FUSIBLE DISCONNECT	HP2	6,8	20 A	
CP2	CIRCULATING PUMP	1020 VA	208 V	2	2-#12, 1-#12	1	2P, 30A, 240V, NEMA 1 FUSIBLE DISCONNECT	HP2	7,9	20 A	
CP3	CIRCULATING PUMP	1020 VA	208 V	2	2-#12, 1-#12	1	2P, 30A, 240V, NEMA 1 FUSIBLE DISCONNECT	HP4	6,8	20 A	
CP4	CIRCULATING PUMP	1020 VA	208 V	2	2-#12, 1-#12	1	2P, 30A, 240V, NEMA 1 FUSIBLE DISCONNECT	HP4	2,4	20 A	
DSS-1 (2030)	DUCTLESS SPLIT	3328 VA	208 V	2	2-#10, 1-#10	1	2P, 30A, 240V, NEMA 3R FUSIBLE DISCONNECT	HP5A	30,32	30 A	FURNISH CONNECTION FROM OUTDOOR CONDENSER TO ASSOCIATED INDOOR FAN MOTOR ON AIR HANDLER. PROVIDE 2P, 30 AMP DISCONNECT SWITCH FOR INDOOR UNIT.
HP-24 (MECH 2018)	HEAT PUMP (INDOOR)	7780 VA	208 V	2	2-#8, 1-#10	1	2P, 60A, 240V, NEMA 1 FUSIBLE DISCONNECT	HP2	24,26	50 A	
HP-24 (MECH 2018)	HEAT PUMP (INDOOR)	7708 VA	208 V	2	2-#8, 1-#10	1	2P, 60A, 240V, NEMA 1 FUSIBLE DISCONNECT	HP2	28,30	50 A	
HP-24 (MECH 2018)	HEAT PUMP (OUTDOOR)	2026 VA	208 V	2	2-#12, 1-#12	1	2P, 30A, 240V, NEMA 3R FUSIBLE DISCONNECT	HP5D	2,4	20 A	
HP-24 (MECH 2020)	HEAT PUMP (OUTDOOR)	2026 VA	208 V	2	2-#12, 1-#12	1	2P, 30A, 240V, NEMA 3R FUSIBLE DISCONNECT	HP5C	25,27	20 A	
HP-24 (MECH 2027)	HEAT PUMP (INDOOR)	7708 VA	208 V	2	2-#8, 1-#10	1	2P, 60A, 240V, NEMA 1 FUSIBLE DISCONNECT	HP2	19,21	50 A	
HP-24 (MECH 2027)	HEAT PUMP (OUTDOOR)	2026 VA	208 V	2	2-#12, 1-#12	1	2P, 30A, 240V, NEMA 3R FUSIBLE DISCONNECT	HP5D	1,3	20 A	
HP-24 (MECH 3018)	HEAT PUMP (INDOOR)	7708 VA	208 V	2	2-#8, 1-#10	1	2P, 60A, 240V, NEMA 1 FUSIBLE DISCONNECT	HP3	14,16	50 A	
HP-24 (MECH 3018)	HEAT PUMP (OUTDOOR)	2026 VA	208 V	2	2-#12, 1-#12	1	2P, 30A, 240V, NEMA 3R FUSIBLE DISCONNECT	HP5D	6,8	20 A	
HP-24 (MECH 3027)	HEAT PUMP (INDOOR)	7708 VA	208 V	2	2-#8, 1-#10	1	2P, 60A, 240V, NEMA 1 FUSIBLE DISCONNECT	HP3	10,12	50 A	
HP-24 (MECH 3027)	HEAT PUMP (OUTDOOR)	2026 VA	208 V	2	2-#12, 1-#12	1	2P, 30A, 240V, NEMA 3R FUSIBLE DISCONNECT	HP5D	5,7	20 A	
HP-24 (MECH 4018)	HEAT PUMP (INDOOR)	7780 VA	208 V	2	2-#8, 1-#10	1	2P, 60A, 240V, NEMA 1 FUSIBLE DISCONNECT	HP4	22,24	50 A	
HP-24 (MECH 4018)	HEAT PUMP (OUTDOOR)	2026 VA	208 V	2	2-#12, 1-#12	1	2P, 30A, 240V, NEMA 3R FUSIBLE DISCONNECT	HP5D	10,12	20 A	
HP-24 (MECH 4027)	HEAT PUMP (INDOOR)	7780 VA	208 V	2	2-#8, 1-#10	1	2P, 60A, 240V, NEMA 1 FUSIBLE DISCONNECT	HP4	18,20	50 A	
HP-24 (MECH 4027)	HEAT PUMP (OUTDOOR)	2026 VA	208 V	2	2-#12, 1-#12	1	2P, 30A, 240V, NEMA 3R FUSIBLE DISCONNECT	HP5D	9,11	20 A	
HP-24 (MECH 5018)	HEAT PUMP (INDOOR)	7780 VA	208 V	2	2-#8, 1-#10	1	2P, 60A, 240V, NEMA 1 FUSIBLE DISCONNECT	HP5A	34,36	50 A	
HP-24 (MECH 5018)	HEAT PUMP (OUTDOOR)	2026 VA	208 V	2	2-#12, 1-#12	1	2P, 30A, 240V, NEMA 3R FUSIBLE DISCONNECT	HP5D	14,16	20 A	
HP-24 (MECH 5027)	HEAT PUMP (INDOOR)	7780 VA	208 V	2	2-#8, 1-#10	1	2P, 60A, 240V, NEMA 1 FUSIBLE DISCONNECT	HP5A	26,28	50 A	
HP-24 (MECH 5027)	HEAT PUMP (OUTDOOR)	2026 VA	208 V	2	2-#12, 1-#12	1	2P, 30A, 240V, NEMA 3R FUSIBLE DISCONNECT	HP5D	13,15	20 A	
HP-36 (2010)	HEAT PUMP (OUTDOOR)	3066 VA	208 V	2	2-#10, 1-#10	1	2P, 30A, 240V, NEMA 3R FUSIBLE DISCONNECT	HP5C	45,47	30 A	
HP-36 (2012)	HEAT PUMP (OUTDOOR)	3066 VA	208 V	2	2-#10, 1-#10	1	2P, 30A, 240V, NEMA 3R FUSIBLE DISCONNECT	HP5D	37,39	30 A	
HP-36 (2014)	HEAT PUMP (OUTDOOR)	3066 VA	208 V	2	2-#10, 1-#10	1	2P, 30A, 240V, NEMA 3R FUSIBLE DISCONNECT	HP5C	33,35	30 A	
HP-36 (2016)	HEAT PUMP (OUTDOOR)	3066 VA	208 V	2	2-#10, 1-#10	1	2P, 30A, 240V, NEMA 3R FUSIBLE DISCONNECT	HP5C	6,8	30 A	
HP-36 (2017)	HEAT PUMP (OUTDOOR)	3066 VA	208 V	2	2-#10, 1-#10	1	2P, 30A, 240V, NEMA 3R FUSIBLE DISCONNECT	HP5C	13,15	30 A	
HP-36 (2018)	HEAT PUMP (OUTDOOR)	3066 VA	208 V	2	2-#10, 1-#10	1	2P, 30A, 240V, NEMA 3R FUSIBLE DISCONNECT	HP5C	22,24	30 A	
HP-36 (2019)	HEAT PUMP (OUTDOOR)	3066 VA	208 V	2	2-#10, 1-#10	1	2P, 30A, 240V, NEMA 3R FUSIBLE DISCONNECT	HP5D	18,20	30 A	
HP-36 (2021)	HEAT PUMP (OUTDOOR)	3066 VA	208 V	2	2-#10, 1-#10	1	2P, 30A, 240V, NEMA 3R FUSIBLE DISCONNECT	HP5D	17,19	30 A	
HP-36 (3010)	HEAT PUMP (OUTDOOR)	3066 VA	208 V	2	2-#10, 1-#10	1	2P, 30A, 240V, NEMA 3R FUSIBLE DISCONNECT	HP5C	38,40	30 A	
HP-36 (3012)	HEAT PUMP (OUTDOOR)	3066 VA	208 V	2	2-#10, 1-#10	1	2P, 30A, 240V, NEMA 3R FUSIBLE DISCONNECT	HP5D	41,43	30 A	
HP-36 (3014)	HEAT PUMP (OUTDOOR)	3066 VA	208 V	2	2-#10, 1-#10	1	2P, 30A, 240V, NEMA 3R FUSIBLE DISCONNECT	HP5D	33,35	30 A	
HP-36 (3016)	HEAT PUMP (OUTDOOR)	3066 VA	208 V	2	2-#10, 1-#10	1	2P, 30A, 240V, NEMA 3R FUSIBLE DISCONNECT	HP5C	2,4	30 A	
HP-36 (3017)	HEAT PUMP (OUTDOOR)	3066 VA	208 V	2	2-#10, 1-#10	1	2P, 30A, 240V, NEMA 3R FUSIBLE DISCONNECT	HP5C	17,19	30 A	
HP-36 (3018)	HEAT PUMP (OUTDOOR)	3066 VA	208 V	2	2-#10, 1-#10	1	2P, 30A, 240V, NEMA 3R FUSIBLE DISCONNECT	HP5C	21,23	30 A	
HP-36 (3019)	HEAT PUMP (OUTDOOR)	3066 VA	208 V	2	2-#10, 1-#10	1	2P, 30A, 240V, NEMA 3R FUSIBLE DISCONNECT	HP5D	22,24	30 A	
HP-36 (3020)	HEAT PUMP (OUTDOOR)	3066 VA	208 V	2	2-#10, 1-#10	1	2P, 30A, 240V, NEMA 3R FUSIBLE DISCONNECT	HP5C	26,31	30 A	
HP-36 (3021)	HEAT PUMP (OUTDOOR)	3066 VA	208 V	2	2-#10, 1-#10	1	2P, 30A, 240V, NEMA 3R FUSIBLE DISCONNECT	HP5D	21,23	30 A	
HP-36 (4010)	HEAT PUMP (OUTDOOR)	3066 VA	208 V	2	2-#10, 1-#10	1	2P, 30A, 240V, NEMA 3R FUSIBLE DISCONNECT	HP5C	41,43	30 A	
HP-36 (4012)	HEAT PUMP (OUTDOOR)	3066 VA	208 V	2	2-#10, 1-#10	1	2P, 30A, 240V, NEMA 3R FUSIBLE DISCONNECT	HP5D	38,40	30 A	
HP-36 (4014)	HEAT PUMP (OUTDOOR)	3066 VA	208 V	2	2-#10, 1-#10	1	2P, 30A, 240V, NEMA 3R FUSIBLE DISCONNECT	HP5C	34,36	30 A	
HP-36 (4016)	HEAT PUMP (OUTDOOR)	3066 VA	208 V	2	2-#10, 1-#10	1	2P, 30A, 240V, NEMA 3R FUSIBLE DISCONNECT	HP5C	1,3	30 A	
HP-36 (4017)	HEAT PUMP (OUTDOOR)	3066 VA	208 V	2	2-#10, 1-#10	1	2P, 30A, 240V, NEMA 3R FUSIBLE DISCONNECT	HP5C	10,12	30 A	
HP-36 (4018)	HEAT PUMP (OUTDOOR)	3066 VA	208 V	2	2-#10, 1-#10	1	2P, 30A, 240V, NEMA 3R FUSIBLE DISCONNECT	HP5C	18,20	30 A	
HP-36 (4019)	HEAT PUMP (OUTDOOR)	3066 VA	208 V	2	2-#10, 1-#10	1	2P, 30A, 240V, NEMA 3R FUSIBLE DISCONNECT	HP5D	26,28	30 A	
HP-36 (4020)	HEAT PUMP (OUTDOOR)	3066 VA	208 V	2	2-#10, 1-#10	1	2P, 30A, 240V, NEMA 3R FUSIBLE DISCONNECT	HP5C	26,28	30 A	
HP-36 (4021)	HEAT PUMP (OUTDOOR)	3066 VA	208 V	2	2-#10, 1-#10	1	2P, 30A, 240V, NEMA 3R FUSIBLE DISCONNECT	HP5D	25,27	30 A	
HP-36 (5010)	HEAT PUMP (OUTDOOR)	3066 VA	208 V	2	2-#10, 1-#10	1	2P, 30A, 240V, NEMA 3R FUSIBLE DISCONNECT	HP5C	37,39	30 A	
HP-36 (5012)	HEAT PUMP (OUTDOOR)	3066 VA	208 V	2	2-#10, 1-#10	1	2P, 30A, 240V, NEMA 3R FUSIBLE DISCONNECT	HP5D	45,47	30 A	
HP-36 (5014)	HEAT PUMP (OUTDOOR)	3066 VA	208 V	2	2-#10, 1-#10	1	2P, 30A, 240V, NEMA 3R FUSIBLE DISCONNECT	HP5D	34,36	30 A	
HP-36 (5016)	HEAT PUMP (OUTDOOR)	3066 VA	208 V	2	2-#10, 1-#10	1	2P, 30A, 240V, NEMA 3R FUSIBLE DISCONNECT	HP5C	5,7	30 A	
HP-36 (5017)	HEAT PUMP (OUTDOOR)	3066 VA	208 V	2	2-#10, 1-#10	1	2P, 30A, 240V, NEMA 3R FUSIBLE DISCONNECT	HP5C	9,11	30 A	
HP-36 (5018)	HEAT PUMP (OUTDOOR)	3066 VA	208 V	2	2-#10, 1-#10	1	2P, 30A, 240V, NEMA 3R FUSIBLE DISCONNECT	HP5C	14,16	30 A	
HP-36 (5019)	HEAT PUMP (OUTDOOR)	3066 VA	208 V	2	2-#10, 1-#10	1	2P, 30A, 240V, NEMA 3R FUSIBLE DISCONNECT	HP5D	30,32	30 A	
HP-36 (5020)	HEAT PUMP (OUTDOOR)	3066 VA	208 V	2	2-#10, 1-#10	1	2P, 30A, 240V, NEMA 3R FUSIBLE DISCONNECT	HP5C	30,32	30 A	
HP-36 (5021)	HEAT PUMP (OUTDOOR)	3066 VA	208 V	2	2-#10, 1-#10	1	2P, 30A, 240V, NEMA 3R FUSIBLE DISCONNECT	HP5D	29,31	30 A	
HP-36 (G UNIT-CKT#1)	HEAT PUMP (INDOOR)	8091 VA	208 V	2	2-#8, 1-#10	1	2P, 60A, 240V, NEMA 1 FUSIBLE DISCONNECT	LC-G.	22,24	50 A	THIS INFORMATION IS TYPICAL FOR THE HEAT PUMP UNIT SERVING UNIT TYPE G.
HP-36 (G UNIT-CKT#1)	HEAT PUMP (INDOOR)	8091 VA	208 V	2	2-#8, 1-#10	1	2P, 60A, 240V, NEMA 1 FUSIBLE DISCONNECT	LC-G	24,26	50 A	THIS INFORMATION IS TYPICAL FOR THE HEAT PUMP UNIT SERVING UNIT TYPE G.
HP-36 (G UNIT-CKT#2)	HEAT PUMP (INDOOR)	3600 VA	208 V	2	2-#10, 1-#10	1	2P, 30A, 240V, NEMA 1 FUSIBLE DISCONNECT	LC-G.	23,25	25 A	THIS INFORMATION IS TYPICAL FOR THE HEAT PUMP UNIT SERVING UNIT TYPE G.
HP-36 (G UNIT-CKT#2)	HEAT PUMP (INDOOR)	3600 VA	208 V	2	2-#10, 1-#10	1	2P, 30A, 240V, NEMA 1 FUSIBLE DISCONNECT	LC-G	23,25	25 A	THIS INFORMATION IS TYPICAL FOR THE HEAT PUMP UNIT SERVING UNIT TYPE G.
HP-36 (H1 UNIT-CKT#1)	HEAT PUMP (INDOOR)	8091 VA	208 V	2	2-#8, 1-#10	1	2P, 60A, 240V, NEMA 1 FUSIBLE DISCONNECT	LC-H1	23,25	50 A	THIS INFORMATION IS TYPICAL FOR THE HEAT PUMP UNIT SERVING UNIT TYPE H1.
HP-36 (H1 UNIT-CKT#2)	HEAT PUMP (INDOOR)	3600 VA	208 V	2	2-#10, 1-#10	1	2P, 30A, 240V, NEMA 1 FUSIBLE DISCONNECT	LC-H1	26,28	25 A	THIS INFORMATION IS TYPICAL FOR THE HEAT PUMP UNIT SERVING UNIT TYPE H1.
HP-36 (H2 UNIT-CKT#1)	HEAT PUMP (INDOOR)	8091 VA	208 V	2	2-#8, 1-#10	1	2P, 60A, 240V, NEMA 1 FUSIBLE DISCONNECT	LC-H2	23,25	50 A	THIS INFORMATION IS TYPICAL FOR THE HEAT PUMP UNIT SERVING UNIT TYPE H2.
HP-36 (H2 UNIT-CKT#2)	HEAT PUMP (INDOOR)	3600 VA	208 V	2	2-#10, 1-#10	1	2P, 30A, 240V, NEMA 1 FUSIBLE DISCONNECT	LC-H2	24,26	25 A	THIS INFORMATION IS TYPICAL FOR THE HEAT PUMP UNIT SERVING UNIT TYPE H2.
PUH-1 (GARAGE 1017)	PROPELLER UNIT HEATER	10000 VA	208 V	3	3-#8, 1-#10	1	FACTORY PROVIDED DISCONNECT.	LR	3,5,7	35 A	
PUH-1 (GARAGE 1017)	PROPELLER UNIT HEATER	10000 VA	208 V	3	3-#8, 1-#10	1	FACTORY PROVIDED DISCONNECT.	HPG1	47,49,51	35 A	
PUH-1 (GARAGE 1017)	PROPELLER UNIT HEATER	10000 VA	208 V	3	3-#8, 1-#10	1	FACTORY PROVIDED DISCONNECT.	HPG1	65,67,69	35 A	
PUH-1 (GARAGE 1017)	PROPELLER UNIT HEATER	10000 VA	208 V	3	3-#8, 1-#10	1	FACTORY PROVIDED DISCONNECT.	HPG1	53,55,57	35 A	
PUH-1 (GARAGE 1017)	PROPELLER UNIT HEATER	10000 VA	208 V	3	3-#8, 1-#10	1	FACTORY PROVIDED DISCONNECT.	HPG1	71,73,75	35 A	
PUH-1 (GARAGE 1017)	PROPELLER UNIT HEATER	10000 VA	208 V	3	3-#8, 1-#10	1	FACTORY PROVIDED DISCONNECT.	HPG1	59,61,63	35 A	
PUH-1 (GARAGE 1022)	PROPELLER UNIT HEATER	10000 VA	208 V	3	3-#8, 1-#10	1	FACTORY PROVIDED DISCONNECT.	HPG1	41,43,45	35 A	
PUH-1 (GARAGE 1022)	PROPELLER UNIT HEATER	10000 VA	208 V	3	3-#8, 1-#10	1	FACTORY PROVIDED DISCONNECT.	HPG1	44,46,48	35 A	
PUH-1 (GARAGE 1022)	PROPELLER UNIT HEATER	10000 VA	208 V	3	3-#8, 1-#10	1	FACTORY PROVIDED DISCONNECT.	HPG1	50,52,54	35 A	
PUH-1 (GARAGE 1022)	PROPELLER UNIT HEATER	10000 VA	208 V	3	3-#8, 1-#10	1	FACTORY PROVIDED DISCONNECT.	HPG1	56,58,60	35 A	
PUH-1 (GARAGE 1022)	PROPELLER UNIT HEATER	10000 VA	208 V	3	3-#8, 1-#10	1	FACTORY PROVIDED DISCONNECT.	LR	10,12,14	35 A	
PUH-1 (GARAGE 1022)	PROPELLER UNIT HEATER	10000 VA	208 V	3	3-#8, 1-#10	1	FACTORY PROVIDED DISCONNECT.	HPG1	62,64,66	35 A	
PUH-1 (GARAGE 1022)	PROPELLER UNIT HEATER	10000 VA	208 V	3	3-#8, 1-#10	1	FACTORY PROVIDED DISCONNECT.	HPG1	68,70,72	35 A	
PUH-1 (GARAGE 1022)	PROPELLER UNIT HEATER	10000 VA	208 V	3	3-#8, 1-#10	1	FACTORY PROVIDED DISCONNECT.	LR	9,11,13	35 A	
PUH-1 (GARAGE 1022)	PROPELLER UNIT HEATER	10000 VA	208 V	3	3-#8, 1-#10	1	FACTORY PROVIDED DISCONNECT.	HPG1	74,76,78	35 A	
PUH-1 (GARAGE 1022)	PROPELLER UNIT HEATER	10000 VA	208 V	3	3-#8, 1-#10	1	FACTORY PROVIDED DISCONNECT.	HPG1	80,82,84	35 A	
PUH-2 (MECH 1011)	PROPELLER UNIT HEATER	5000 VA	208 V	2	2-#10, 1-#10	1	FACTORY PROVIDED DISCONNECT.	LR	6,8	30 A	
PUH-2 (MECH 1018)	PROPELLER UNIT HEATER	5000 VA	208 V	2	2-#10, 1-#10	1	FACTORY PROVIDED DISCONNECT.	HPG1	38,40	30 A	
VF-1	POWER VENTILATOR	900 VA	208 V	3	3-#12, 1-#12	1	3P, 30A, 240V, NEMA 1 FUSIBLE DISCONNECT	LR	16,18,20	20 A	
VF-2	POWER VENTILATOR	1728 VA	208 V	3	3-#12, 1-#12	1	3P, 30A, 240V, NEMA 1 FUSIBLE DISCONNECT	LR	15,17,19	20 A	
VTAC-24 (C UNIT)	VERTICAL PACKAGED TERMINAL AIR CONDITIONING UNIT	5784 VA	208 V	2	2-#8, 1-#10	1	2P, 60A, 240V, NEMA 1 FUSIBLE DISCONNECT	LC-C	23,25	35 A	THIS INFORMATION IS TYPICAL FOR THE HEAT PUMP UNIT SERVING UNIT TYPE C.
VTAC-24 (D UNIT)	VERTICAL PACKAGED TERMINAL AIR CONDITIONING UNIT	5784 VA	208 V	2	2-#8, 1-#10	1	2P, 60A, 240V, NEMA 1 FUSIBLE DISCONNECT	LC-D	23,25	35 A	THIS INFORMATION IS TYPICAL FOR THE HEAT PUMP UNIT SERVING UNIT TYPE D.
VTAC-24 (LOBBY 1019)	VERTICAL PACKAGED TERMINAL AIR CONDITIONING UNIT	5784 VA	208 V	2	2-#8, 1-#10	1	2P, 60A, 240V, NEMA 1 FUSIBLE DISCONNECT	HPG1	37,39	35 A	
VTAC-24 (MECH 2018)	VERTICAL PACKAGED TERMINAL AIR CONDITIONING UNIT	5784 VA	208 V	2	2-#8, 1-#10	1	2P, 60A, 240V, NEMA 1 FUSIBLE DISCONNECT	HP2	29,31	35 A	
VTAC-24 (MECH 3018)	VERTICAL PACKAGED TERMINAL AIR CONDITIONING UNIT	5784 VA	208 V	2	2-#8, 1-#10	1	2P, 60A, 240V, NEMA 1 FUSIBLE DISCONNECT	HP3	17,19	35 A	
VTAC-24 (MECH 4018)	VERTICAL PACKAGED TERMINAL AIR CONDITIONING UNIT	5784 VA	208 V	2	2-#8, 1-#10	1	2P, 60A, 240V, NEMA 1 FUSIBLE DISCONNECT	HP4	19,21	35 A	
VTAC-24 (MECH 5018)	VERTICAL PACKAGED TERMINAL AIR CONDITIONING UNIT	5784 VA	208 V	2	2-#8, 1-#10	1	2P, 60A, 240V, NEMA 1 FUSIBLE DISCONNECT	HP5A	11,13	35 A	
WH1	WATER HEATER	400 VA	120 V	1	1-#12, 1-#12, 1-#12	1		HP2	2	20 A	
WH2	WATER HEATER	400 VA	120 V	1	1-#12, 1-#12, 1-#12	1		HP2	5	20 A	
WH3	WATER HEATER	400 VA	120 V	1	1-#12, 1-#12, 1-#12	1		HP4	3	20 A	
WH4	WATER HEATER	400 VA	120 V	1	1-#12, 1-#12, 1-#12	1		HP4	1	20 A	
WUH-1 (MECH 1026)	WALL UNIT HEATER	1500 VA	120 V	1	1-#12, 1-#12, 1-#12	1	FACTORY PROVIDED DISCONNECT.	HPG1	19	20 A	
WUH-1 (STAIR 2)	WALL UNIT HEATER	1500 VA	120 V	1	1-#12, 1-#12, 1-#12	1	FACTORY PROVIDED DISCONNECT.	HPG1	32	20 A	
WUH-1 (STAIR 3)	WALL UNIT HEATER	1500 VA	120 V	1	1-#12, 1-#12, 1-#12	1	FACTORY PROVIDED DISCONNECT.	HP5A	33	20 A	
WUH-2 - STAIR #1	WALL UNIT HEATER	4000 VA	208 V	2	2-#10, 1-#10	1	FACTORY PROVIDED DISCONNECT.	HPG1	34,36	25 A	
WUH-2 - STAIR #3	WALL UNIT HEATER	4000 VA	208 V	2	2-#10, 1-#10	1	FACTORY PROVIDED DISCONNECT.	HPG1	33,35	25 A	

GENERAL NOTES

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STATE OF MISSOURI
CHRISTOPHER IVAN WILLIAMS
NUMBER PE-2009003754
PROFESSIONAL ENGINEER

BID SET

PROJECT TITLE

John Knox Village

MEADOWS BUILDING PHASE III

SFCS | Architecture Engineering Planning Interiors

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DESIGNER : DAS	DRAWN : JDM
ARCHITECT : DAS	CHECKED : CIW
ENGINEER : NAD	APPROVED : CIW

NO.	REVISION DESCRIPTION	DATE

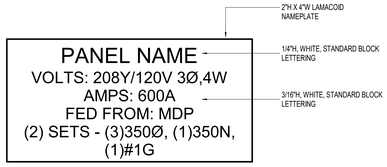
DRAWING TITLE

ELECTRICAL SCHEDULES

DATE: 03/13/2026

COMM. NO. 25116.00

DRAWING E5.5

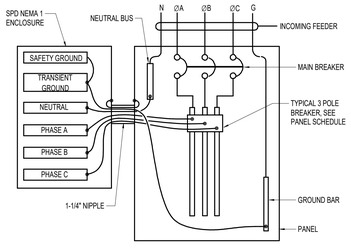


NOTES:

- NAMEPLATE COLOR SHALL BE BLACK
- NAMEPLATES SHALL BE PROVIDED ON ALL NEW POWER DISTRIBUTION EQUIPMENT INCLUDING PANELBOARDS, SWITCHBOARDS, MOTOR CONTROL CENTERS, AND SWITCHES

10 E6.1 POWER DIST EQ NAMEPLATE DETAIL

N.T.S.

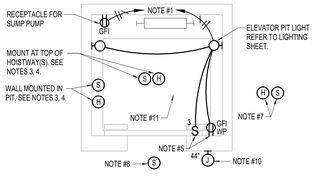


NOTES:

1. ALL WIRING SHALL BE #6 AWG.
2. AVOID SHARP BENDS IN WIRES. ALL WIRE LENGTHS SHALL NOT EXCEED 18" (WHERE POSSIBLE).
3. SEE SPD SPECIFICATION FOR EXACT TYPE (H1,H2,L1,L2) FOR LOCATION AS INDICATED ON THE POWER RISER DIAGRAM.

11 E6.1 SPD CONNECTION DETAIL

N.T.S.

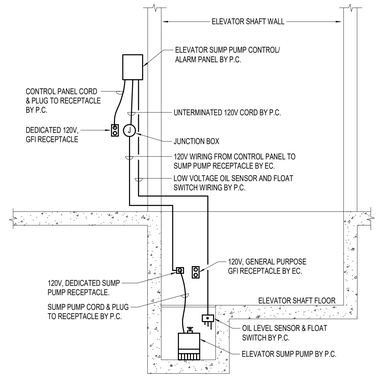


NOTES:

1. CONNECT TO 120V CIRCUIT. SEE PLANS FOR EXACT CIRCUIT DESIGNATION.
2. COORDINATE EXACT LOCATION OF ALL DEVICES WITH THE ELEVATOR SHOP DRAWINGS.
3. MOUNT SMOKE AND HEAT DETECTORS WITHIN 2'-0" OF SPRINKLER HEADS. SMOKE DETECTOR SHALL, UPON ALARM, RE-CALL ELEVATOR TO THE APPROPRIATE LEVEL, AND LOCK OUT ELEVATOR VIA ELEVATOR EQUIPMENT. HEAT DETECTORS SHALL CONTROL THE OPERATION OF THE SPRINKLER PIPING SOLENOID VALVE(S) AND THE SHUNTING OF MAIN ELEVATOR POWER. SEE ELEVATOR FIRE ALARM SHUTDOWN CONTROL SCHEMATIC. HEAT DETECTORS SHALL HAVE A LOWER RESPONSE TIME INDEX (135°F) COMPARED TO THE SPRINKLER HEADS IN THE HOISTWAY.
4. WHERE HOISTWAY IS NOT SPRINKLERED, DO NOT PROVIDE SMOKE OR HEAT DETECTORS IN THE HOISTWAY.
5. LOCATE PIT LIGHT SWITCH AND CONVENIENCE RECEPTACLE ADJACENT TO ACCESS DOOR AND AT TOP ACCESS (TOP FLOOR). (2) TOTAL RECEPTS AND (4) LIGHTS, (2) SWITCHES.
6. LIGHTS SHALL NOT BE CONNECTED TO THE LOAD SIDE TERMINALS OF THE CONVENIENCE RECEPTACLE.
7. MOUNT CENTERED IN ELEVATOR MACHINE ROOM (IF APPLICABLE).
8. MOUNT IN ELEVATOR LOBBY AT EACH LEVEL WITHIN 15'-0" OF DOOR.
9. THE SMOKE DETECTOR(S) LOCATED IN THE DESIGNATED ELEVATOR RECALL LOBBY(S) SHALL ACTUATE THE FIRST ELEVATOR CONTROL CIRCUIT. THE SMOKE DETECTORS IN THE REMAINING ELEVATOR LOBBIES SHALL ACTUATE THE SECOND ELEVATOR CONTROL CIRCUIT. THE SMOKE DETECTORS IN THE HOISTWAY(S) AND ELEVATOR MACHINE ROOM(S) SHALL ACTUATE THE THIRD ELEVATOR CONTROL CIRCUIT, AND WHERE A MACHINE ROOM IS LOCATED AT THE DESIGNATED LEVEL, THAT ELEVATOR MACHINE ROOM SMOKE DETECTOR SHALL ALSO ACTUATE THE FIRST ELEVATOR CONTROL CIRCUIT.
10. PROVIDE FLUSH JUNCTION BOX FOR TWO-WAY COMMUNICATIONS BETWEEN EACH ELEVATOR LANDING PER 2015 IBC 1009.8.
11. ALL WIRING AND BOXES INSTALLED WITHIN THE PIT ARE REQUIRED TO BE W/P TYPE BOXES AND FITTINGS.

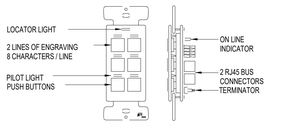
8 E6.1 ELEVATOR HOIST DETAIL

N.T.S.

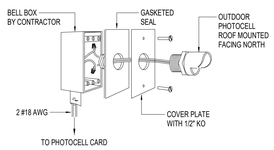


6 E6.1 ELEVATOR SUMP PUMP DIAGRAM

N.T.S.



DIGITALSWITCH



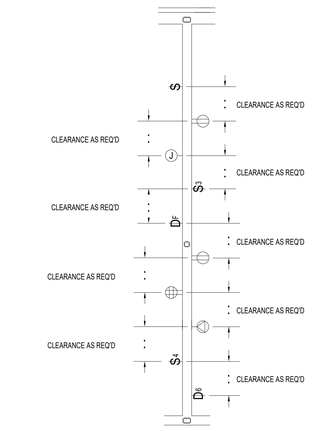
OUTDOOR PHOTOCELL

NOTES:

1. SWITCH BUTTONS ARE FACTORY ENGRAVED.
2. PUSH BUTTONS MAY CONTROL ANY RELAY(S) IN ANY COMBINATION.
3. LED PILOT LIGHTS INDICATE STATUS.
4. DECORA STYLE FACE PLATE BY CONTRACTOR.

5 E6.1 PHOTOCELL DETAILS

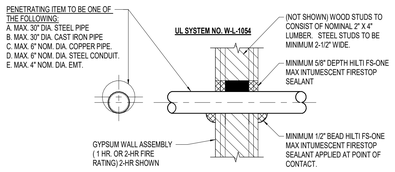
N.T.S.



NOTE:
TYPICAL OF RECESSED WALL MOUNTED ELECTRICAL DEVICES LOCATED AT FIRE AND ACCOUSTICAL RATED PARTITIONS. REFER TO "DETAILS FOR MEMBRANE PENETRATIONS IN FIRE & ACCOUSTICAL RATED WALLS" ON THIS DRAWING AND TO SPECIFICATIONS.

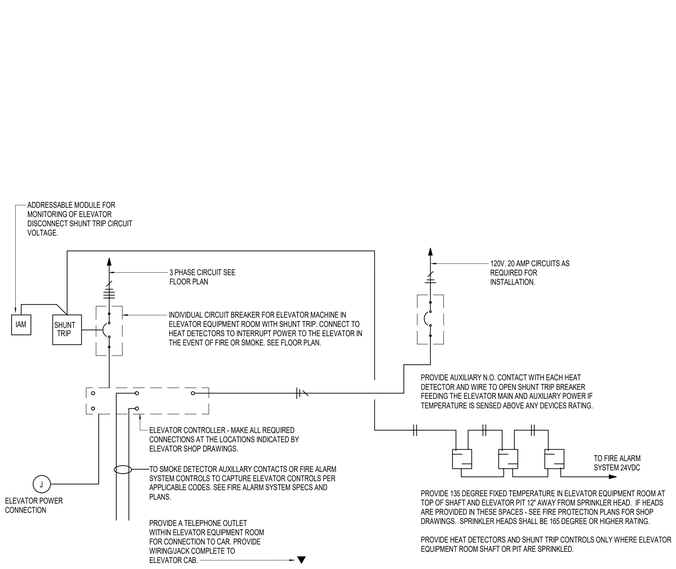
PARTIAL FIRE OR ACCOUSTICAL RATED PARTITION

3 E6.1 N.T.S.



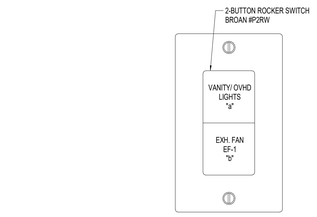
FIRESTOP INSTALLATION DETAIL

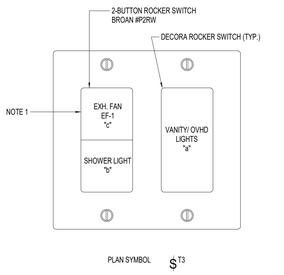
2 E6.1 N.T.S.



9 E6.1 ELEVATOR POWER WIRING DIAGRAM

N.T.S.



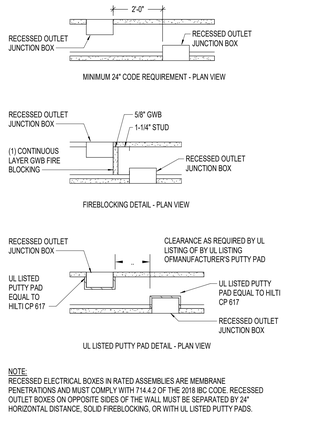


NOTES:

1. ROCKER SWITCH WIRED TO CONTROL UNIT EXHAUST FAN. SHOWER LIGHT TO BE CONTROLLED SEPARATELY.
2. USE DEVICES LISTED IN THIS DETAIL OR EQUAL.

7 E6.1 RESIDENT BATHROOM SWITCH DETAIL

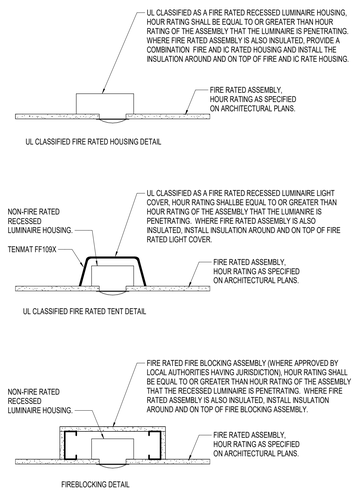
N.T.S.



NOTE:
RECESSED ELECTRICAL BOXES IN RATED ASSEMBLIES ARE MEMBRANE PENETRATIONS AND MUST COMPLY WITH 714.4.2 OF THE 2018 IBC CODE. RECESSED OUTLET BOXES ON OPPOSITE SIDES OF THE WALL MUST BE SEPARATED BY 24" HORIZONTAL DISTANCE, SOLID FIREBLOCKING, OR WITH UL LISTED PUTTY PADS.

DETAILS FOR MEMBRANE PENETRATIONS IN FIRE & ACOUSTICAL RATED ASSEMBLIES

4 E6.1 N.T.S.



NOTE:
RECESSED LUMINAIRES IN FIRE-RESISTANCE-RATED HORIZONTAL ASSEMBLIES ARE MEMBRANE PENETRATIONS AND MUST COMPLY WITH 714.5.1.1 OR 714.5.1.2 OF THE 2018 IBC CODE. RECESSED LUMINAIRES SHALL BE INSTALLED SUCH THAT THE REQUIRED FIRE RESISTANCE WILL NOT BE REDUCED.

DETAILS FOR LUMINAIRE PENETRATIONS IN FIRE RATED ASSEMBLIES

1 E6.1 N.T.S.

GENERAL NOTES

STATE OF MISSOURI
CHRISTOPHER WALLACE MILLER
NUMBER PE-2009009254
PROFESSIONAL ENGINEER
BID SET

PROJECT TITLE

John Knox Village

MEADOWS BUILDING PHASE III

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DESIGNER : DAS	DRAWN : JDM
ARCHITECT : DAS	CHECKED : CIW
ENGINEER : NAD	APPROVED : CIW

NO.	REVISION DESCRIPTION	DATE

DRAWING TITLE

ELECTRICAL DETAILS

DATE: 03/13/2026

COMM. NO. 25116.00

DRAWING E6.1

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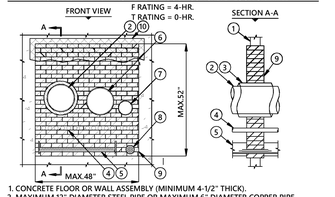
U.L. SYSTEM NO. WJ8007

MULTIPLE PENETRATING ITEMS THROUGH CONCRETE FLOOR OR WALL

F RATING = 4-HR.
T RATING = 0-HR.



1. CONCRETE FLOOR OR WALL ASSEMBLY (MINIMUM 4-1/2" THICK).
2. MAXIMUM 12" DIAMETER STEEL PIPE OR MAXIMUM 6" DIAMETER COPPER PIPE.
3. MAXIMUM 1-1/2" THICK GLASS-FIBER PIPE INSULATION.
4. 1-1/2" DIAMETER STEEL CONDUIT (MAXIMUM QUANTITY = 15).
5. STEEL OR ALUMINUM CABLE TRAY (MAXIMUM SIZE : 36" x 6") WITH ANY OF THE FOLLOWING TYPES OF CABLE MAY BE USED WITH MAXIMUM 30% FILL OF CABLE TRAY :
   A. MAXIMUM 500 KCMIL SINGLE CONDUCTOR POWER CABLE.
   B. MAXIMUM 7/C NO. 12 AWG COPPER CONDUCTOR CABLES.
   C. MAXIMUM 300 PAIR NO. 24 AWG TELEPHONE CABLES.
6. MAXIMUM 30" DIAMETER STEEL PIPE (12" DIAMETER PIPE SHOWN).
7. 6" DIAMETER STEEL PIPE.
8. MAXIMUM 4" DIAMETER CABLE BUNDLE TO INCLUDE ANY OF THE FOLLOWING :
   A. FIBER-OPTIC CABLE (MAX. 1/2" DIA).
   B. ROMEX (2/C NO. 10 +GROUND).
   C. 25 PAIR NO. 24 AWG TELEPHONE CABLES.
   D. 7/C NO. 12 AWG CABLES.
   E. RG 62A COAXIAL CABLES.
   F. METAL CLAD CABLE (MAX. 3/4" DIA.)
9. HILTI FS 657 INTUMESCENT FIRESTOP BLOCK (2" TALL x 5" WIDE x 8" DEEP, REF: FRONT VIEW).
10. SEE NOTE NO. 4 BELOW.

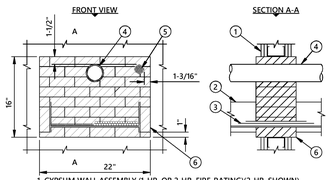
NOTES : 1. ANNULAR SPACING FOR CABLE TRAY = MINIMUM 1-1/2".
2. ANNULAR SPACING FOR PIPE AND CABLE PENETRATIONS = MINIMUM 1".
3. INSTALL HILTI FS-ONE HIGH PERFORMANCE INTUMESCENT FIRESTOP SEALANT IN ANY VOID THAT MAY EXIST (AROUND CABLE TRAY, CABLES, OR PIPE PENETRATIONS).
4. IF THE ANNULAR SPACE IS GREATER THAN 5", PROVIDE A STEEL WIRE MESH (NOMINAL 2" SQUARES, NO. 16 SWG). INSTALL ON EACH SIDE OF WALL ASSEMBLY.
5. MAXIMUM AREA OF OPENING = 2496 SQUARE INCHES.

SEE HILTI FIRESTOP INSTALLATION MANUAL FOR ADDITIONAL INSTRUCTIONS
HILTI, INC. TULSA, OK 1-800-879-8000

U.L. SYSTEM NO. WL8013

MULTIPLE PENETRATIONS THROUGH 1-HR. OR 2-HR. GYPSUM WALL

F RATING = 1-HR. OR 2-HR. L RATING AT AMBIENT = 5 CFM/SQ. FT.
T RATING = 0-HR. L RATING AT 400°F = 2 CFM/SQ. FT.



1. GYPSUM WALL ASSEMBLY (1-HR. OR 2-HR. FIRE-RATING)(2-HR. SHOWN).
2. STEEL OR ALUMINUM CABLE TRAY (MAXIMUM SIZE : 18" x 6").
3. ANY OF THE FOLLOWING TYPES OF CABLE MAY BE USED WITH MAX. 30% FILL ON CABLE TRAY :
   A. 500 KCMIL SINGLE CONDUCTOR POWER CABLE.
   B. 7/C NO. 12 AWG COPPER CONDUCTOR CABLE.
   C. 300 PAIR NO. 24 AWG TELEPHONE CABLE.
4. MAXIMUM 3" DIAMETER PVC PLASTIC PIPE (SCHEDULE 40)(CLOSED OR VENTED PIPING SYSTEM).
5. CABLE BUNDLE (MAX. 2" DIA.) TO CONSIST OF ANY OF THE FOLLOWING:
   A. FIBER-OPTIC CABLE.
   B. RG 59 COAXIAL CABLE.
   C. 25 PAIR NO. 24 AWG TELEPHONE CABLE.
   D. 7/C NO. 12 AWG COPPER CONDUCTOR.
6. HILTI FS 657 FIRESTOP BLOCKS (2" x 5" x 8" DEEP, REF: FRONT VIEW).

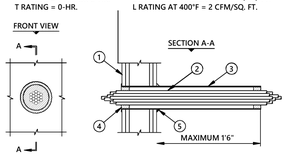
NOTES : 1. NOT SHOWN: PENETRATING ITEMS MAY ALSO INCLUDE A MAX. 4" DIA. STEEL OR COPPER PIPE, EMT, OR STEEL CONDUIT WITH A MAX. 1-1/2" GLASS-FIBER PIPE INSULATION OR NON-INSULATED MAX. 4" STEEL PIPE, EMT, OR CONDUIT.
2. ANNULAR SPACE = MINIMUM 1".
3. INSTALL HILTI FS-ONE HIGH PERFORMANCE INTUMESCENT FIRESTOP SEALANT IN ANY VOID THAT MAY EXIST (AROUND PENETRATING ITEMS, OR BETWEEN BLOCKS).

SEE HILTI FIRESTOP INSTALLATION MANUAL FOR ADDITIONAL INSTRUCTIONS
HILTI, INC. TULSA, OK 1-800-879-8000

U.L. SYSTEM NO. WL3065

CABLE BUNDLE THROUGH 1-HR. OR 2-HR. FIRE-RATED GYPSUM WALL

F RATING = 1-HR. OR 2-HR. L RATING AT AMBIENT = 5 CFM/SQ. FT.
T RATING = 0-HR. L RATING AT 400°F = 2 CFM/SQ. FT.



1. GYPSUM WALL ASSEMBLY (1-HR. OR 2-HR. FIRE-RATING)(2-HR. SHOWN).
2. CABLE BUNDLE TO CONSIST OF ANY OF THE FOLLOWING :
   A. 7/C NO. 12 AWG CABLES.
   B. 12 PAIR 24 AWG PHONE CABLES.
   C. 25 PAIR 24 AWG PHONE CABLES.
   D. RG 59 COAXIAL CABLES.
   E. 2/C (+GND) NO. 14 AWG METAL-CLAD CABLES.
   F. 2/C NO. 8 AWG METAL-CLAD CABLES.
   G. MAXIMUM 1/2" DIAMETER FIBER-OPTIC CABLES.
3. OPTIONAL : MAX. NOM. DIA. STEEL PIPE SLEEVE (SCH. 40 OR THINNER)(SEE NOTE NO. 4).
4. HILTI FS-ONE HIGH PERFORMANCE INTUMESCENT FIRESTOP SEALANT :
   A. MINIMUM 5/8" DEPTH OF SEALANT FOR A 1-HR. FIRE-RATING.
   B. MINIMUM 1-1/4" DEPTH OF SEALANT FOR A 2-HR. FIRE-RATING.
5. SEE NOTE NO. 4 BELOW.

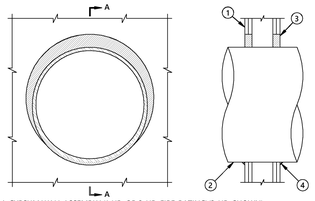
NOTES : 1. MAXIMUM DIAMETER OF OPENING = 4-1/2".
2. CABLES TO FILL MAXIMUM 33% OF AREA OF OPENING.
3. ANNULAR SPACE = MINIMUM 1/4", MAXIMUM 3/4".
4. STEEL SLEEVE MAY BE FLUSH WITH WALL SURFACE OR EXTEND UP TO 18" BEYOND WALL SURFACE IN ANY COMBINATION. WHEN SLEEVE IS FLUSH WITH WALL, APPLY HILTI FS-ONE FIRESTOP SEALANT ONTO WALL SURFACE. WHEN SLEEVE IS EXTENDED BEYOND ONE OR BOTH SIDES OF WALL, APPLY 1/2" CROWN HILTI FS-ONE FIRESTOP SEALANT TO WALL/SLEEVE INTERFACE.

SEE HILTI FIRESTOP INSTALLATION MANUAL FOR ADDITIONAL INSTRUCTIONS
HILTI, INC. TULSA, OK 1-800-879-8000

U.L. SYSTEM NO. WL1054

METAL PIPE THROUGH GYPSUM WALL ASSEMBLY

F RATING = 1-HR. OR 2-HR.
T RATING = 0-HR.
L RATING AT AMBIENT = LESS THAN 1 CFM/SQ. FT.
L RATING AT 400°F = LESS THAN 4 CFM/SQ. FT.



1. GYPSUM WALL ASSEMBLY (1-HR. OR 2-HR. FIRE-RATING)(2-HR. SHOWN).
2. PENETRATING ITEM TO BE ONE OF THE FOLLOWING :
   A. MAXIMUM 30" DIAMETER STEEL PIPE (SCHEDULE 10 OR HEAVIER).
   B. MAXIMUM 6" DIAMETER COPPER PIPE.
   C. MAXIMUM 6" DIAMETER STEEL CONDUIT.
   D. MAXIMUM 4" DIAMETER STEEL EMT.
3. HILTI FS-ONE HIGH PERFORMANCE INTUMESCENT FIRESTOP SEALANT :
   A. MINIMUM 5/8" DEPTH OF SEALANT FOR A 1-HR. FIRE-RATING.
   B. MINIMUM 1-1/4" DEPTH OF SEALANT FOR A 2-HR. FIRE-RATING.
4. MINIMUM 1/2" BEAD HILTI FS-ONE HIGH PERFORMANCE INTUMESCENT FIRESTOP SEALANT AT POINT OF CONTACT.

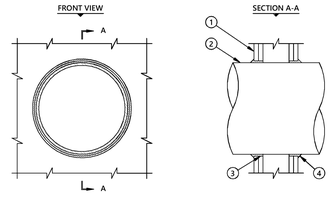
NOTES : 1. MAXIMUM DIAMETER OF OPENING = 32-1/4".
2. ANNULAR SPACE = MINIMUM 0", MAXIMUM 2-1/4".

SEE HILTI FIRESTOP INSTALLATION MANUAL FOR ADDITIONAL INSTRUCTIONS
HILTI, INC. TULSA, OK 1-800-879-8000

U.L. SYSTEM NO. WL1085

EMT THROUGH 1-HR. OR 2-HR. GYPSUM WALL ASSEMBLY

F RATING = 1-HR. AND 2-HR.
T RATING = 0-HR.
L RATING AT AMBIENT = LESS THAN 1 CFM/SQ. FT.
L RATING AT 400°F = 4 CFM/SQ. FT.



1. GYPSUM WALL ASSEMBLY (1-HR. OR 2-HR. FIRE-RATING)(2-HR. SHOWN).
2. PENETRATING ITEM TO BE ONE OF THE FOLLOWING :
   A. MAXIMUM 12" DIAMETER STEEL PIPE (SCHEDULE 20 OR HEAVIER).
   B. MAXIMUM 12" DIAMETER CAST IRON PIPE.
   C. MAXIMUM 6" DIAMETER COPPER PIPE.
   D. MAXIMUM 6" DIAMETER EMT.
   E. MAXIMUM 6" DIAMETER STEEL CONDUIT.
3. HILTI FS-ONE HIGH PERFORMANCE INTUMESCENT FIRESTOP SEALANT FORCED INTO ANNULAR SPACE TO MAXIMUM EXTENT.
4. MINIMUM 1/2" BEAD HILTI FS-ONE HIGH PERFORMANCE INTUMESCENT FIRESTOP SEALANT AT PIPE/GYPSUM WALLBOARD INTERFACE.

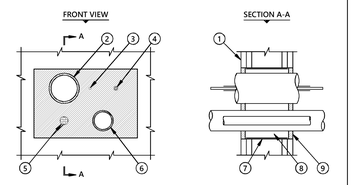
NOTE : ANNULAR SPACE = MINIMUM 0", MAXIMUM 1/4".

SEE HILTI FIRESTOP INSTALLATION MANUAL FOR ADDITIONAL INSTRUCTIONS
HILTI, INC. TULSA, OK 1-800-879-8000

U.L. SYSTEM NO. WL8004

MULTIPLE METAL PIPE AND CABLE THROUGH 2-HR. GYPSUM WALL

F RATING = 2-HR.
T RATING = 1/4-HR.
L RATING AT AMBIENT = LESS THAN 1 CFM/SQ. FT.
L RATING AT 400°F = 4 CFM/SQ. FT.



1. GYPSUM WALL ASSEMBLY (2-HR. FIRE-RATING).
2. MAXIMUM 3" DIAMETER ELECTRICAL METALLIC TUBING (EMT).
3. MAXIMUM 25 PAIR NO. 24 AWG (OR SMALLER) TELEPHONE CABLES.
4. MAXIMUM 3/C NO. 10 AWG NM (WITH GROUND) POWER CABLE WITH PVC INSULATION.
5. MAXIMUM 300 KCMIL (OR SMALLER) POWER CABLE WITH PVC INSULATION & NYLON JACKET.
6. MAXIMUM 2" DIAMETER STEEL PIPE, COPPER PIPE, EMT, OR STEEL CONDUIT.
7. NO. 8 STEEL WIRE MESH, 4-3/4" LONG (OR STANDARD METAL DRYWALL TRACK SCREWED SECURELY IN PLACE) CENTERED IN OPENING.
8. MINIMUM 4" THICKNESS MINERAL WOOL (MIN. 4 PCF DENSITY) TIGHTLY PACKED.
9. MIN. 1/2" DEPTH HILTI FS-ONE HIGH PERFORMANCE INTUMESCENT FIRESTOP SEALANT.

NOTES : 1. MAXIMUM AREA OF OPENING = 96 SQUARE INCHES WITH A MAX. DIM. OF 12".
2. DISTANCE BETWEEN ITEMS = MINIMUM 1-3/4", MAXIMUM 7".
3. DISTANCE FROM EDGE OF OPENING = MINIMUM 1/2", MAXIMUM 7". (EXCEPTION: 300 KCMIL POWER CABLE MUST BE MINIMUM 1-1/2" FROM EDGE OF OPENING.

SEE HILTI FIRESTOP INSTALLATION MANUAL FOR ADDITIONAL INSTRUCTIONS
HILTI, INC. TULSA, OK 1-800-879-8000

GENERAL NOTES

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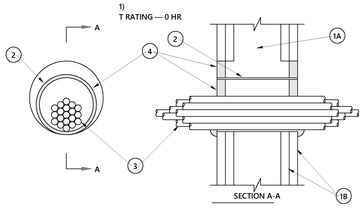
SYSTEM NO. W-L-3065

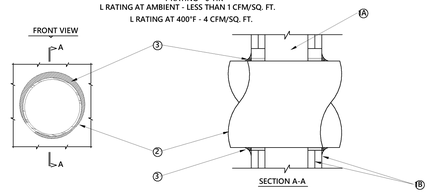
F RATINGS — 1 AND 2 HR (SEE ITEM 1)
T RATING — 0 HR



1. WALL ASSEMBLY — THE 1 OR 2 FIRE-RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL U300, U400 OR V400 SERIES WALL AND PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
   A. STUDS — WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. (51 BY 102 MM) LUMBER SPACED 16 IN. (406 MM) OC. STEEL STUDS TO BE MIN 2-1/2 IN. (64 MM) WIDE AND SPACED MAX 24 IN. (610 MM) OC.
   B. GYPSUM BOARD* — NOM 5/8 IN. (16 MM) THICK GYPSUM BOARD, WITH SQUARE OR TAPERED EDGES. THE GYPSUM BOARD TYPE, THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL U300, U400 OR V400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY. MAX DIA OF OPENING IS 5-1/2 IN. (138 MM) WHEN SLEEVE (ITEM 2) IS EMPLOYED. MAX DIA OF OPENING IS 4 IN. (102 MM) WHEN SLEEVE (ITEM 2) IS NOT EMPLOYED.
   THE F RATING OF THE FIRESTOP SYSTEM IS EQUAL TO THE FIRE RATING OF THE WALL ASSEMBLY.
2. METALLIC SLEEVE — (OPTIONAL) - NOM 4 IN. (102 MM) DIA (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING (EMT) OR SCHEDULE 5 (OR HEAVIER) STEEL PIPE OR MIN 0.016 IN. THICK (0.41 MM, NO. 28 GA) GALV STEEL SLEEVE INSTALLED FLUSH WITH WALL SURFACES. THE ANNULAR SPACE BETWEEN STEEL SLEEVE AND PERIPHERY OF OPENING SHALL BE MIN 0 IN. (0 MM, POINT CONTACT) TO MAX 1 IN. (25MM). WHEN SCHEDULE 5 STEEL PIPE OR EMT IS USED, SLEEVE MAY EXTEND UP TO 18 IN. (457 MM) BEYOND THE WALL SURFACES.
3. CABLES — AGGREGATE CROSS-SECTIONAL AREA OF CABLE IN OPENING TO BE MAX 45 PERCENT OF THE CROSS-SECTIONAL AREA OF THE OPENING. THE ANNULAR SPACE BETWEEN THE CABLE BUNDLE AND THE PERIPHERY OF THE OPENING TO BE MIN 0 IN. (0 MM, POINT CONTACT) TO MAX 1 IN. (25 MM) CABLES TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF THE WALL ASSEMBLY. ANY COMBINATION OF THE FOLLOWING TYPES AND SIZES OF COPPER CONDUCTOR CABLES MAY BE USED:
   A. MAX 7/C NO. 12 AWG WITH POLYVINYL CHLORIDE (PVC) INSULATION AND JACKET.
   B. MAX 25 PAIR NO. 24 AWG TELEPHONE CABLE WITH PVC INSULATION AND JACKET.
   B1. MAX 4 PR NO. 22 AWG CAT 5 OR CAT 6 COMPUTER CABLES.
   C. TYPE RG/U COAXIAL CABLE WITH POLYETHYLENE (PE) INSULATION AND PVC JACKET HAVING A MAX OUTSIDE DIAMETER OF ½ IN. (13 MM).
   C1. MAX RG 6/U COAXIAL CABLE WITH FLUORINATED ETHYLENE INSULATION AND JACKETING.
   D. MULTIMODE FIBER OPTICAL COMMUNICATION CABLE JACKETED WITH PVC AND HAVING A MAX OD OF 5/8 IN. (16 MM).
   E. THROUGH PENETRATING PRODUCTS* — MAX THREE COPPER CONDUCTOR NO. 8 AWG . METAL-CLAD CABLE+.
   AFC CABLE SYSTEMS INC
   F. MAX 3/C (WITH GROUND)(OR SMALLER) NO. 8 AWG COPPER CONDUCTOR CABLE WITH PVC INSULATION AND JACKETING.
   G. MAX 3/4 IN. (19 MM) DIA COPPER GROUND CABLE WITH OR WITHOUT A PVC JACKET.
   H. FIRE RESISTIVE CABLES* - MAX 1-1/4 IN. (32 MM) DIA SINGLE CONDUCTOR OR MULTI CONDUCTOR TYPE MI CABLE. A MIN 1/8 IN. (3 MM) SEPARATION SHALL BE MAINTAINED BETWEEN MI CABLES AND ANY OTHER TYPES OF CABLE.
   I. MAX 4/C WITH GROUND 300KCMIL (OR SMALLER) ALUMINUM SER CABLE WITH PVC INSULATION AND JACKET.
   J. THROUGH PENETRATING PRODUCT* - ANY CABLES, METAL-CLAD CABLE+ OR ARMORED CABLE+ CURRENTLY CLASSIFIED UNDER THE THROUGH PENETRATING PRODUCTS CATEGORY.
   SEE THROUGH PENETRATING PRODUCT (XHJU) CATEGORY IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.
4. FILL, VOID OR CAVITY MATERIAL*— SEALANT OR PUTTY — FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH EACH END OF THE STEEL SLEEVE OR WALL SURFACE. FILL MATERIAL INSTALLED SYMMETRICALLY ON BOTH SIDES OF THE WALL. A MIN 5/8 IN. (16 MM) THICKNESS OF SEALANT IS REQUIRED FOR THE 1 OR 2 HR F RATING . AN ADDITIONAL 1/2 IN. (13 MM) DIA BEAD OF FILL MATERIAL SHALL BE APPLIED AROUND THE PERIMETER OF SLEEVE ON BOTH SIDES OF THE WALL WHEN SLEEVE EXTENDS BEYOND SURFACE OF WALL.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP601S, CP606, FS-ONE SEALANTS OR CP618 PUTTY

*BEARING THE UL CLASSIFICATION MARK
+BEARING THE UL LISTING MARK

F RATING - 1-HR OR 2-HR (SEE ITEM 1B)
T RATING - 0-HR
L RATING AT AMBIENT - LESS THAN 1 CFM/SQ. FT.
L RATING AT 400°F - 4 CFM/SQ. FT.



1. WALL ASSEMBLY - THE 1 OR 2 HR FIRE-RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED U300 OR U400 SERIES WALL AND PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:

   A. STUDS - WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM BY 4 IN. LUMBER SPACED 16 IN. OC. STEEL STUDS TO BE MIN 2-1/2 IN. WIDE AND SPACED MAX 24 IN. OC.

   B. GYPSUM BOARD* - 5/8 IN. THICK, 4 FT WIDE WITH SQUARE OR TAPERED EDGES. THE GYPSUM WALLBOARD TYPE, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL WALL AND PARTITION DESIGN. MAX DIA OF OPENING IS 13-1/4 IN.

   DIA OF CIRCULAR OPENING CUT THROUGH GYPSUM WALLBOARD OF EACH SIDE OF WALL ASSEMBLY TO BE MIN 1/4 IN. TO MAX 1/2 IN. LARGER THAN OUTSIDE DIA OF THROUGH PENETRANT (ITEM 2). THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS EQUAL TO THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED.

2. THROUGH PENETRANTS - ONE METALLIC PIPE, CONDUIT OR TUBING TO BE INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. PIPE, CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE ANNUIAR SPACE BETWEEN THE THROUGH-PENETRANT AND THE PERIPHERY OF THE OPENING SHALL BE MIN 0 IN. TO MAX 1/4 IN. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUITS OR TUBING MAY BE USED:

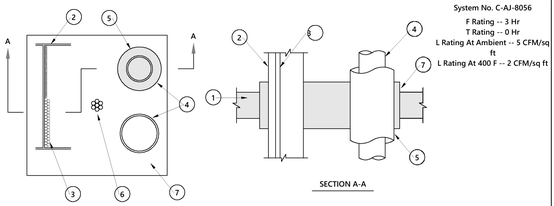
   A. STEEL PIPE - NOM 12 IN. DIA (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE.
   B. IRON PIPE - NOM 12 IN. DIA (OR SMALLER) CAST OR DUCTILE IRON PIPE.
   C. CONDUIT - NOM 6 IN. DIA (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING OR STEEL CONDUIT.
   D. COPPER TUBING - NOM 5 IN. DIA (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING.
   E. COPPER TUBING - NOM 6 IN. DIA (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.

3. FILL, VOID, OR CAVITY MATERIAL* - SEALANT - FILL MATERIAL TO BE FORCED INTO THE ANNULUS TO MAXIMUM EXTENT POSSIBLE. ADDITIONAL FILL MATERIAL TO BE INSTALLED SUCH THAT A MIN 1/2 IN. CROWN IS FORMED AROUND THE PENETRATING ITEM AND LAPPING 1/4 IN. BEYOND THE PERIPHERY OF THE OPENING.

CLASSIFIED C R US

HILTI FIRESTOP SYSTEMS
REPRODUCED BY HILTI, INC.
COURTESY OF UNDERWRITERS LABORATORIES, INC.

System No. C-AJ-8056
F Rating -- 3 Hr
T Rating -- 0 Hr
L Rating At Ambient -- 5 CFM/sq ft
L Rating At 400 F -- 2 CFM/sq ft

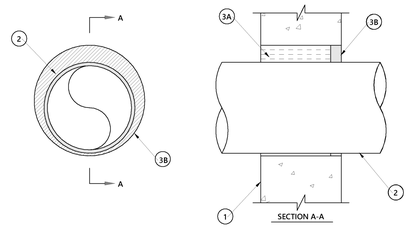


1. FLOOR OR WALL ASSEMBLY -- 4-1/2 IN. THICK REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF) CONCRETE. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS*. MAX AREA OF OPENING IS 1296 IN. SQ WITH MAX DIMENSION OF 36 IN. SEE CONCRETE BLOCKS (CAZT) CATEGORY IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.
2. CABLE TRAY* -- MAX 18 IN. WIDE BY MAX 6 IN. DEEP OPEN-LADDER OR SOLID-BACK CABLE TRAY WITH CHANNEL-SHAPED SIDE RAILS FORMED OF 0.060 IN. THICK ALUMINUM OR STEEL AND WITH 1-1/2 IN. WIDE BY 1 IN. CHANNEL SHAPE RUNGS SPACED 9 IN. OC OR A 0.029 IN. THICK STEEL SOLID BACK, RESPECTIVELY. ONE CABLE TRAY TO BE INSTALLED IN THE OPENING. THE MAX ANNULAR SPACE BETWEEN THE CABLE TRAYS IS 9 IN. AND BETWEEN THE PERIPHERY OF THE OPENING SHALL BE MIN 1-1/2 IN. TO MAX 4-1/2 IN. CABLE TRAY TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY.
3. CABLES -- AGGREGATE CROSS-SECTIONAL AREA OF CABLES IN CABLE TRAY TO BE MAX 30 PERCENT OF THE CROSS-SECTIONAL AREA OF THE CABLE TRAY BASED ON A MAX 3 IN. CABLE LOADING DEPTH WITHIN THE CABLE TRAY. ANY COMBINATION OF THE FOLLOWING TYPES AND SIZES OF COPPER CONDUCTOR OR FIBER OPTIC CABLES MAY BE USED:
   A. 7/C NO. 12 AWG WITH POLYVINYL CHLORIDE (PVC) INSULATION AND PVC JACKET.
   B. 300 PAIR - NO. 24 AWG CABLE WITH PVC INSULATION AND JACKET.
   C. 1/C, 350 KCMIL WITH CROSS-LINKED POLYETHYLENE (XLPE) INSULATION AND JACKET.
   D. 1/C, 500 KCMIL WITH THERMO PLASTIC INSULATION AND POLYVINYL CHLORIDE (PVC) JACKET.
   E. TWENTY FOUR FIBER OPTIC CABLE WITH PVC SUB UNIT AND JACKET.
4. THROUGH-PENETRANTS -- ONE OR MORE PIPE, CONDUIT OR TUBE TO BE INSTALLED WITHIN THE OPENING. THE TOTAL NUMBER OF THROUGH-PENETRANTS IS DEPENDENT ON THE SIZE OF THE OPENING AND TYPES AND SIZES OF THE PENETRANTS. ANY COMBINATION OF THE PENETRANTS DESCRIBED BELOW MAY BE USED PROVIDED THAT THE FOLLOWING PARAMETERS RELATIVE TO THE ANNULAR SPACES AND THE SPACING BETWEEN THE PIPES ARE MAINTAINED. THE SPACE BETWEEN PIPES, CONDUITS OR TUBING AND BETWEEN THE PERIPHERY OF THE OPENING AND THE PIPES OR CONDUITS SHALL BE MIN 1 IN. TO MAX 4-1/2 IN. PIPE, CONDUIT OR TUBE TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUITS OR TUBING MAY BE

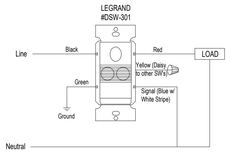
   A. NOM 6 IN. DIA (OR SMALLER) RIGID GALV STEEL CONDUIT.
   B. NOM 4 IN. DIA (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING.
   C. NOM 4 IN. DIA (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.
   D. NOM 4 IN. DIA (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBE.
   E. NOM 6 IN. DIA (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE.
   F. NOM 6 IN. DIA (OR SMALLER) CAST OR DUCTILE IRON PIPE.
5. PIPE COVERING -- NOM 1-1/2 IN. THICK HOLLOW CYLINDRICAL HEAVY DENSITY (MIN 3.5 PCF) GLASS FIBER UNITS JACKETED ON THE OUTSIDE WITH AN ALL SERVICE JACKET. LONGITUDINAL JOINTS SEALED WITH METAL FASTENERS OR FACTORY APPLIED SELF-SEALING LAP TAPE. TRANSVERSE JOINTS SECURED WITH METAL FASTENERS OR WITH BUTT TAPE SUPPLIED WITH THE PRODUCT.
   SEE PIPE AND EQUIPMENT COVERING AND MATERIALS (BRGU) CATEGORY IN THE BUILDING MATERIALS DIRECTORY FOR NAMES OF MANUFACTURERS. ANY PIPE COVERING MATERIAL MEETING THE ABOVE SPECIFICATIONS AND BEARING THE UL CLASSIFICATION MARKING WITH A FLAME SPREAD INDEX OF 25 OR LESS AND A SMOKE DEVELOPED INDEX OF 50 MAY BE USED.
6. CABLES -- MAX 2 IN. DIA TIGHT BUNDLE OF CABLES CENTERED IN OPENING AND RIGIDLY SUPPORTED ON BOTH SURFACES OF FLOOR AND WALL. ANY COMBINATION OF THE FOLLOWING TYPES AND SIZES OF CABLES MAY BE USED:
   A. 7/C NO. 12 AWG WITH POLYVINYL CHLORIDE (PVC) INSULATION AND PVC JACKET.
   B. 25 PAIR - NO. 24 AWG CABLE WITH PVC INSULATION AND JACKET.
   C. 2/C NO. 10 AWG WITH PVC INSULATION AND JACKET.
   D. 3/C NO. 8 AWG ALUMINUM CLAD CABLE WITH CROSS-LINKED POLYETHYLENE (XLPE) INSULATION AND PVC JACKET.
   E. TYPE RC - 62 A/U COAXIAL CABLE WITH AIR CORE AND PVC JACKET.
   F. 24 FIBER OPTIC CABLE WITH PVC SUB UNIT AND OUTER JACKET.
7. FIRESTOP SYSTEM -- THE FIRESTOP SYSTEM SHALL CONSIST OF THE FOLLOWING:
   A. FILL, VOID OR CAVITY MATERIAL* -- FIRE BLOCKS INSTALLED WITH LONG DIMENSION PASSED THROUGH THE OPENING EXTENDING MIN 1-1/2 IN. FROM EACH SURFACE. BLOCKS TO COMPLETELY FILL THE ENTIRE OPENING.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC -- FS-FIRE BLOCK
   B. FILL, VOID OR CAVITY MATERIAL* -- FILL MATERIAL TO BE FORCED INTO INTERSTICES OF CABLES AND BETWEEN CABLES AND CABLE TRAYS TO MAX EXTENT POSSIBLE ON BOTH SURFACES OF THE PENETRATION.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC -- FS-ONE SEALANT
   C. WIRE MESH (NOT SHOWN) -- WHEN THE ANNULAR SPACE EXCEEDS 4-1/2 IN. TO THE PERIPHERY, A NOM 2 IN. SQ WIRE FENCING SHALL BE USED TO KEEP THE FIRE BLOCKS IN PLACE. THE WIRE FENCING IS FABRICATED FROM MIN NO. 16 SWG (0.060 IN.) GALV STEEL WIRE. THE WIRE IS CUT TO FIT THE CONTOUR OF THE PENETRATING ITEM WITH A MIN 3 IN. LAP BEYOND THE PERIPHERY OF THE OPENING. WIRE FENCING SECURED TO TOP SURFACE OF FLOOR AND BOTH SURFACES OF WALL ASSEMBLY BY MEANS OF 1/4 IN. DIA BY 1 IN. LONG CONCRETE ANCHORS AND 1/4 IN. BY 1-1/2 IN. DIA FENDER WASHERS SPACED MAX 8 IN. OC.
   *BEARING THE UL CLASSIFICATION MARK

SYSTEM NO. W-J-1088

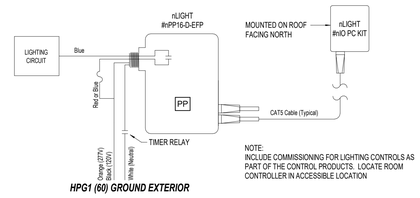
ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F RATING - 1 AND 2 HR (SEE ITEM 3)	F RATING - 1 AND 2 HR (SEE ITEM 3)
T RATING - 0 HR	FT RATING - 0 HR
	FH RATING - 1 AND 2 HR (SEE ITEM 3)
	FTH RATING - 0 HR



1. WALL ASSEMBLY — MIN 3-3/4 IN. (95 MM) THICK REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF OR 1600-2400 KG/M3) CONCRETE. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS*. MAX DIAMETER OF OPENING 10-1/2 IN. (267 MM).
   SEE CONCRETE BLOCKS (CAZT) CATEGORY IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.
2. THROUGH-PENETRANTS — ONE METALLIC PIPE, CONDUIT OR TUBING TO BE INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. AN ANNULAR SPACE OF MIN 1/4 IN. TO MAX 1-5/8 IN. (41 MM) IS REQUIRED WITHIN FIRESTOP SYSTEM. PIPE, CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUITS OR TUBING MAY BE USED:
   A. STEEL PIPE — NOM 8 IN. (203 MM) DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE.
   B. IRON PIPE — NOM 8 IN. (203 MM) DIAM (OR SMALLER) CAST OR DUCTILE IRON PIPE.
   C. CONDUIT — NOM 4 IN. (102 MM) DIAM (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING (EMT) OR 6 IN. DIAM STEEL CONDUIT.
   D. COPPER TUBING — NOM 4 IN. (102 MM) DIAM (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING.
   E. COPPER PIPE — NOM 4 IN. (102 MM) DIAM (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.
   F. FLEXIBLE STEEL CONDUIT* — NOM 2 IN. (51 MM) DIAM (OR SMALLER) FLEXIBLE STEEL CONDUIT.
   SEE FLEXIBLE METAL CONDUIT (DXUZ) CATEGORY IN THE ELECTRICAL CONSTRUCTION EQUIPMENT DIRECTORY

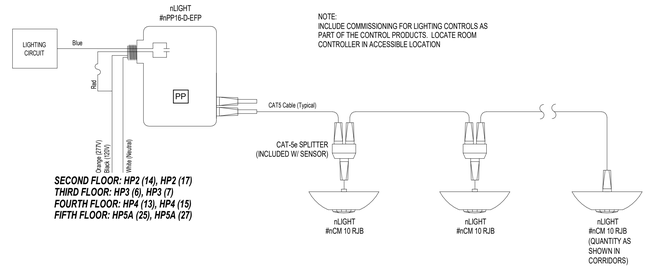


TYPICAL OCCUPANCY SWITCH WIRING DIAGRAM



HPG1 (60) GROUND EXTERIOR

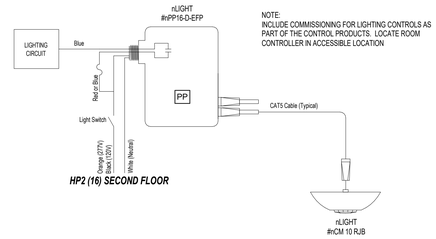
EXTERIOR LIGHTING CONTROL DIAGRAM



SECOND FLOOR: HP2 (14), HP2 (17)
THIRD FLOOR: HP3 (8), HP3 (7)
FOURTH FLOOR: HP4 (13), HP4 (15)
FIFTH FLOOR: HP5A (25), HP5A (27)

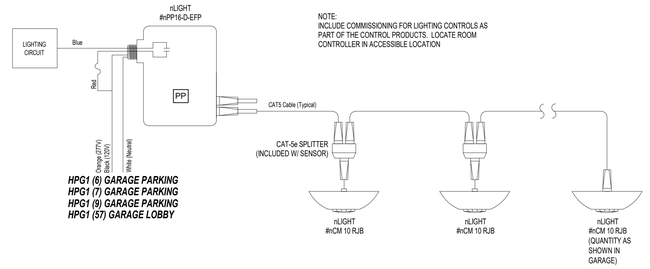
CORRIDOR LIGHTING CONTROL DIAGRAM

(TYPICAL FOR EACH FLOOR)



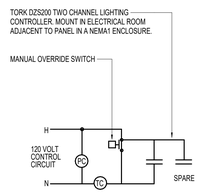
HP2 (16) SECOND FLOOR

COMMUNITY ROOM LIGHTING CONTROL DIAGRAM



HPG1 (6) GARAGE PARKING
HPG1 (7) GARAGE PARKING
HPG1 (9) GARAGE PARKING
HPG1 (57) GARAGE LOBBY

GARAGE LIGHTING CONTROL DIAGRAM



NOTES:

PC PHOTOCELL MOUNTED ON ROOF FACING NORTH. ELECTRICAL CONTRACTOR SHALL ADJUST SENSITIVITY AS REQUIRED BY ARCHITECT.

TC MULTIPOLE 120/240V, 30ACONTACTOR WITH 120V COIL. TC TO CONTROL ALL HOT LEGS OF LIGHTING AS REQUIRED.

2 LIGHTING CONTACTOR DETAIL W/TIMER

E6.3 N.T.S.

1 LIGHTING CONTROL DIAGRAM

E6.3 N.T.S.

GENERAL NOTES

LIGHTING CONTROLS SYMBOLS:

LOW VOLTAGE LIGHTING CONTROL PUSHBUTTON STATIONS.

NX: GRAPHIC TOUCH WALL STATION
NXSW-ORLO: SINGLE ZONE ON/ RAISE/ LOWER/ OFF SWITCH
NXSW-OO: SINGLE ZONE ON/ OFF SWITCH
NXSW-SS: 4 ZONE SCENE SWITCH, DIMMING LEVEL AT 100%, 75%, 50% & 25%

RC	LIGHTING CONTROL ROOM CONTROLLER
BM	LIGHTING CONTROL NETWORK BRIDGE MODULE
LCIM	LIGHTING CONTROL INPUT MODULE
LCDM	LIGHTING CONTROL PHASE DIMMER MODULE (NXFRD)
ELR	LIGHTING AUTOMATIC EMERGENCY LOAD RELAY/ UL924

NOTES:
1. TOUCH SCEEN STATIONS AND BUTTON STATIONS SHALL BE PROGRAMMED WITH PRESET SCENES PER OWNER REQUIREMENTS AND WITH INPUT FROM OWNER REPRESENTATIVE.
2. ALL DEVICES MAY NOT BE SHOWN, BUT ARE REQUIRED, FOR A COMPLETE LIGHTING CONTROL SYSTEM. DETAILS SHOWN REPRESENT THE INTENT OF CONTROL FOR THE THE AREAS LISTED ABOVE WHICH SHALL CONSIST OF DISTRIBUTED LIGHTING SYSTEM
3. WIRING DIAGRAM BASED ON CURRENT LIGHTING SOLUTIONS/HUBBELL "NX SYSTEM". (ACUITY N-LIGHT LIGHTING CONTROLS, COOPER LIGHTING SYSTEMS OR EQUAL).

BID SET

PROJECT TITLE

John Knox Village

MEADOWS BUILDING PHASE III

SFCS Architecture Engineering Planning Interiors
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ARCHITECT	DAS	CHECKED	CIW
ENGINEER	NAD	APPROVED	CIW

NO.	REVISION DESCRIPTION	DATE

DRAWING TITLE

LIGHTING CONTROL DIAGRAMS/ LIGHTING DETAILS

DATE: 03/13/2026

COMM. NO. 25116.00

DRAWING E6.3

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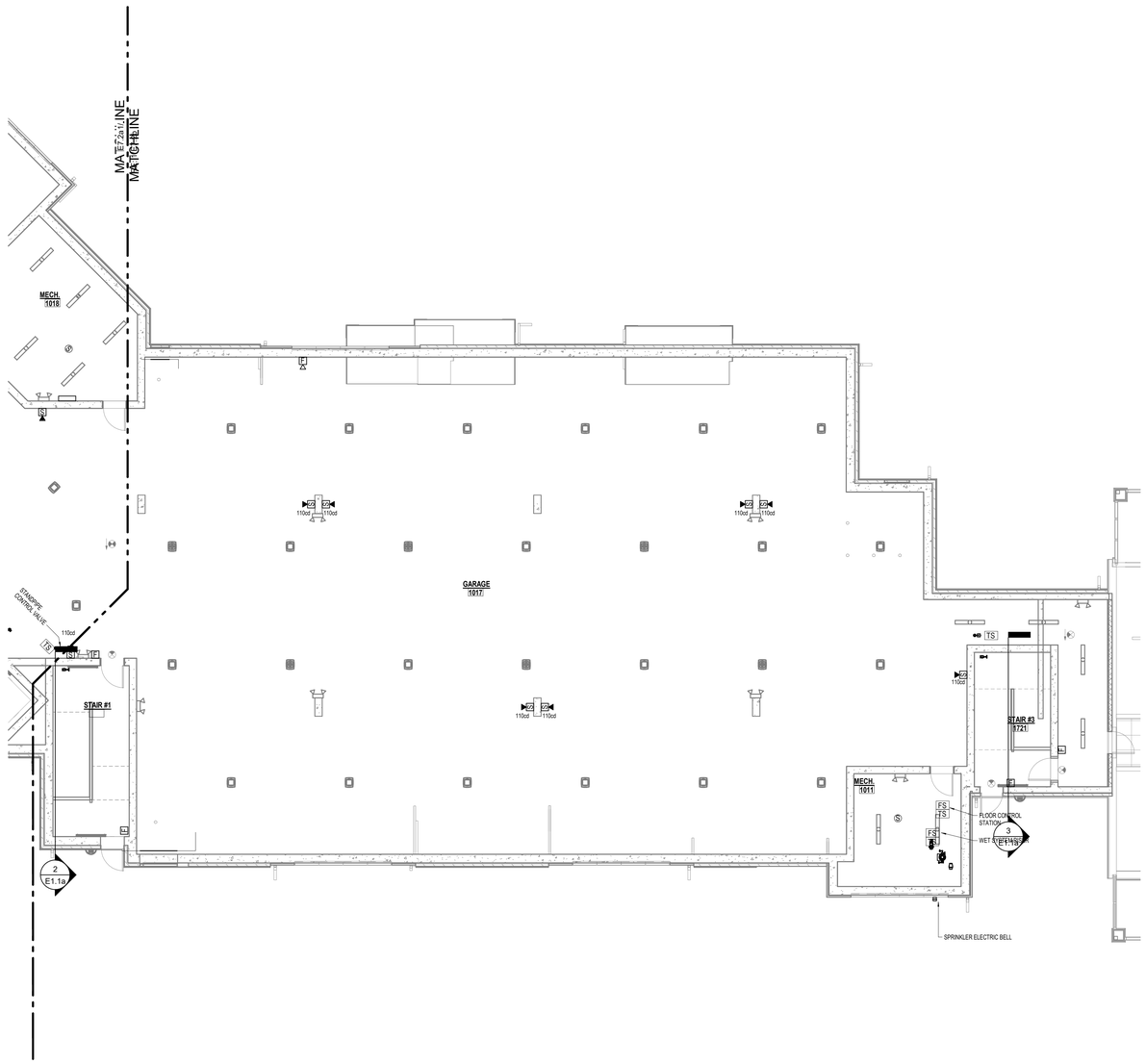


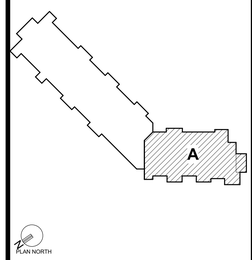
1 GARAGE FLOOR PLAN - AREA A - FIRE ALARM
E7.1a 1/8" = 1'-0"

PLAN NORTH

GENERAL NOTES

A. PROVIDE DUCT DETECTORS WITHIN 5'-0" OF ALL FIRE SMOKE DAMPERS PER IBC, MECHANICAL, 2017 EDITION, SECTION 607.3.3.2(1).
B. PROVIDE ALL REQUIRED CONNECTIONS, MATERIALS AND FIRE ALARM DEVICES TO INTERFACE TO ANY LOW VOLTAGE EQUIPMENT. LOW VOLTAGE EQUIPMENT INCLUDES, BUT IS NOT LIMITED TO, NURSE CALL SYSTEM, EMERGENCY CALL SYSTEM, WANDER MANAGEMENT SYSTEM, DOOR SECURITY SYSTEM, ETC. REFER TO LOW VOLTAGE SUBMITTALS AND COORDINATE WITH THE LOW VOLTAGE INSTALLERS FOR REQUIRED CONNECTIONS.
C. PROVIDE ALL REQUIRED CONNECTIONS, MATERIALS AND FIRE ALARM DEVICES TO INTERFACE TO HVAC EQUIPMENT. REFER TO THE HVAC DRAWINGS, SPECIFICATIONS AND SUBMITTALS FOR REQUIRED CONNECTIONS.
D. PROVIDE ALL REQUIRED CONNECTIONS, MATERIALS AND FIRE ALARM DEVICES TO INTERFACE WITH THE SPRINKLER SYSTEM SPRINKLER SYSTEM CONNECTIONS INCLUDE, BUT IS NOT LIMITED TO, FLOW SWITCHES, PRESSURE SWITCHES, SUPERVISORY SWITCHES, ETC. COORDINATE QUANTITY AND LOCATION OF SWITCHES WITH THE SPRINKLER DRAWINGS AND INSTALLER FOR REQUIRED CONNECTIONS. NOTE THAT SPRINKLER DRAWINGS SHALL BE PROVIDED BY THE SPRINKLER CONTRACTOR.
E. PROVIDE ALL REQUIRED CONNECTIONS, MATERIALS AND FIRE ALARM DEVICES TO INTERFACE TO THE TRASH CHUTE DOOR INTERLOCKS. REFER TO THE TRASH CHUTE SUBMITTAL AND COORDINATE WITH THE INSTALLER TO PROVIDE ALL REQUIRED CONNECTIONS.
F. SIGNAL VOLTAGE CABLING INSTALLED IN AIR RETURN PLENUMS SHALL BE RATED FOR PLENUM USE.
G. FIRE ALARM SYSTEM DEVICES SHOWN ARE FOR BIDDING PURPOSES ONLY. SYSTEM SHALL BE DESIGNED BY AN ENTITY MEETING THE REQUIREMENTS LISTED IN THE SPECIFICATIONS. COORDINATE WORK WITH FIRE ALARM VENDOR PRIOR TO SUBMITTING BIDS.
H. ONLY FIRE ALARM SHOP DRAWINGS APPROVED BY ENGINEER AND PERMITTING AGENCY SHALL BE USED FOR CONSTRUCTION.
I. FIRE ALARM SYSTEM WIRING SHALL BE IN RED COLORED CONDUIT. INITIATING DEVICE CIRCUITS AND NOTIFICATION APPLIANCE CIRCUITS SHALL BE IN SEPARATE RACEWAYS. FIRE ALARM SYSTEM JUNCTION BOXES, BACK BOXES, AND PULL BOXES SHALL BE PAINTED RED.
J. PROVIDE A DEDICATED POWER CIRCUIT TO EACH FIRE ALARM EQUIPMENT PANEL OR POWER SUPPLY.
K. FIRE ALARM OCP DEVICES SHALL HAVE NON-REMOVABLE LOCKABLE HANDLE PAINTED RED.
L. PROVIDE QUANTITY OF POWER SUPPLIES AND NAC PANELS BASED UPON FINAL SYSTEM DESIGN AND REQUIRED SPARE CAPACITY. LOCATE ADDITIONAL PANELS ADJACENT TO THOSE SHOWN ON PLANS. DO NOT INSTALL ADDITIONAL EQUIPMENT IN OTHER AREAS OF THE PROJECT WITHOUT WRITTEN CONSENT BY THE ENGINEER.
M. COORDINATE WITH ELEVATOR SUPPLIER FOR CONNECTION OF FIRE ALARM INPUTS FOR RECALL AND SHUTDOWN. PROGRAM FUNCTIONS IN ACCORDANCE WITH NFPA 72 AND LATEST ADOPTED BUILDING CODES.
N. CONNECT TO FIRE/SMOKE DAMPERS WHERE SHOWN ON MECHANICAL PLANS. FIRE ALARM VENDOR DRAWINGS, AND WHERE REQUIRED BY CODE. COORDINATE WITH EQUIPMENT SUPPLIER FOR REQUIRED 120V CONNECTIONS. DAMPERS SHALL CLOSE UPON INITIATION OF FIRE ALARM SYSTEM AND SHALL OPEN AFTER RESET TO NORMAL. PROVIDE SMOKE DETECTION DEVICES AT DAMPERS AND INSTALL IN ACCORDANCE WITH NFPA 72 AND LATEST ADOPTED BUILDING CODES.
O. IDENTIFY LOCATIONS OF CONCEALED SMOKE DETECTION DEVICES IN ACCORDANCE WITH NFPA 72 AND LATEST ADOPTED BUILDING CODES.
P. PROVIDE ACCESS PANELS AS REQUIRED FOR MAINTENANCE AND TESTING FOR SMOKE DETECTORS LOCATED ABOVE INACCESSIBLE CEILINGS. COORDINATE SIZE AND LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION.
Q. SMOKE DETECTORS REQUIRED FOR RELEASE OF FIRE RATED DOORS SHALL BE LOCATED AND CONNECTED IN ACCORDANCE WITH NFPA 72.
R. FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR ALLOWABLE PROXIMITY OF CEILING MOUNTED SMOKE DETECTORS TO MECHANICAL DIFFUSERS.
S. VISUAL NOTIFICATION DEVICES SHALL BE SYNCHRONIZED.
T. EACH FIRE ALARM DEVICE SHALL BE LABELED WITH SELF ADHESIVE POLYESTER COATED PRINTED LABELS INDICATING DEVICE ADDRESS AND CIRCUIT PER FIRE ALARM SHOP DRAWINGS.
U. PROVIDE CONNECTIONS TO FIRE SPRINKLER SYSTEM PER SPRINKLER SYSTEM SHOP DRAWINGS, FIRE ALARM VENDOR DRAWINGS, AND AS REQUIRED BY NFPA 13. EACH CONNECTION OR MONITOR POINT SHALL BE INDIVIDUALLY ADDRESSED. PROVIDE MONITOR MODULES AS REQUIRED FOR COMPLETE AND OPERABLE SYSTEM.
V. COORDINATE WITH OWNER AND AHJ FOR PHONE CONNECTION AND DIALING SERVICES OF FIRE ALARM CONTROL PANEL.

KEYPLAN



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NUMBER PE-2009009254
22-23-2026
STATE OF MISSOURI
PROFESSIONAL ENGINEER

BID SET

PROJECT TITLE

John Knox Village

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ARCHITECT	: DAS	CHECKED	: CIW
ENGINEER	: NAD	APPROVED	: CIW

NO.	REVISION DESCRIPTION	DATE

DRAWING TITLE

GARAGE FLOOR PLAN - AREA A - FIRE ALARM

DATE: 03/13/2026
COMM. NO. 25116.00
DRAWING E7.1a

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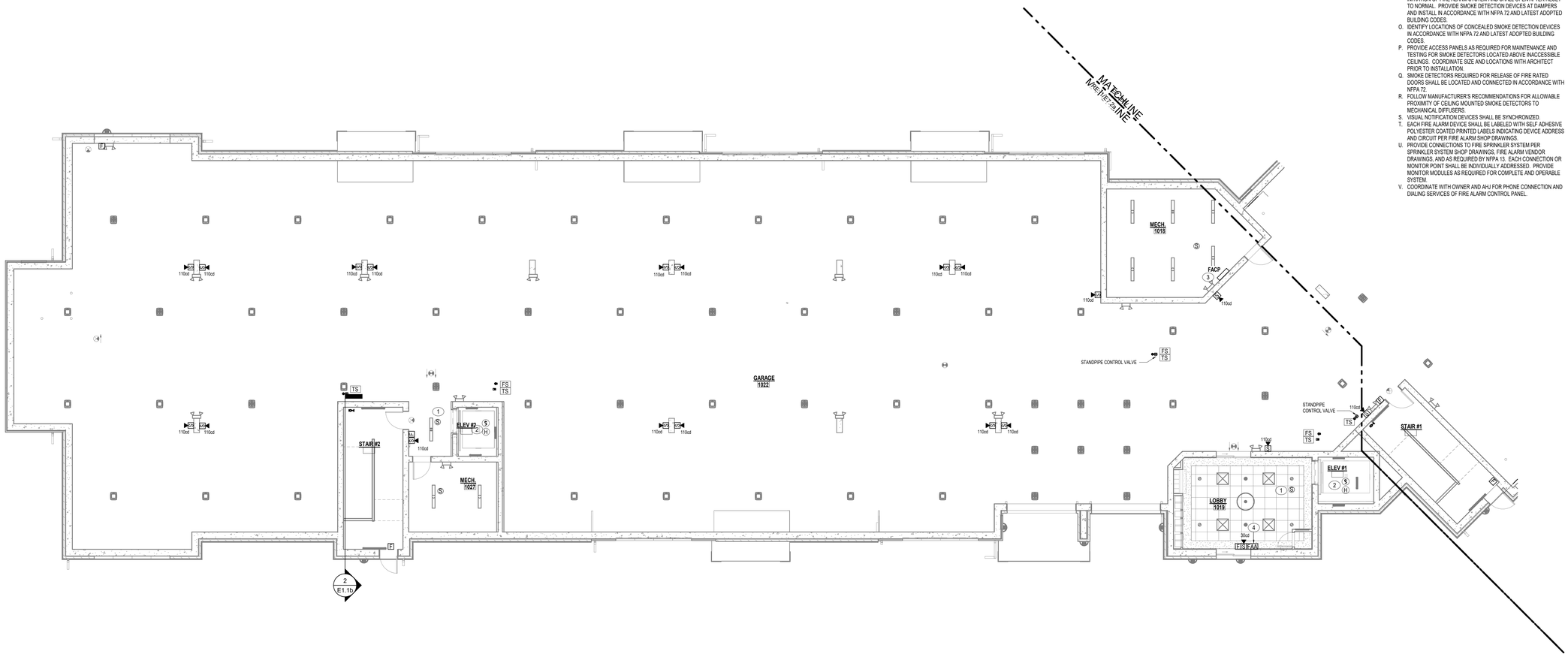
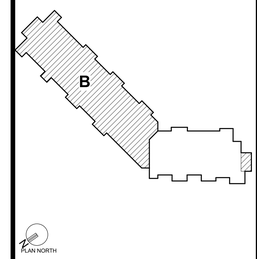


1 GARAGE FLOOR PLAN - AREA B - FIRE ALARM
E7.1b 1/8" = 1'-0"

GENERAL NOTES

A. PROVIDE DUCT DETECTORS WITHIN 5'-0" OF ALL FIRE SMOKE DAMPERS PER IBC, MECHANICAL, 2017 EDITION, SECTION 607.3.3.2(1).
B. PROVIDE ALL REQUIRED CONNECTIONS, MATERIALS AND FIRE ALARM DEVICES TO INTERFACE TO ANY LOW VOLTAGE EQUIPMENT. LOW VOLTAGE EQUIPMENT INCLUDES, BUT IS NOT LIMITED TO, NURSE CALL SYSTEM, EMERGENCY CALL SYSTEM, WANDER MANAGEMENT SYSTEM, DOOR SECURITY SYSTEM, ETC. REFER TO LOW VOLTAGE SUBMITTALS AND COORDINATE WITH THE LOW VOLTAGE INSTALLERS FOR REQUIRED CONNECTIONS.
C. PROVIDE ALL REQUIRED CONNECTIONS, MATERIALS AND FIRE ALARM DEVICES TO INTERFACE TO HVAC EQUIPMENT. REFER TO THE HVAC DRAWINGS, SPECIFICATIONS AND SUBMITTALS FOR REQUIRED CONNECTIONS.
D. PROVIDE ALL REQUIRED CONNECTIONS, MATERIALS AND FIRE ALARM DEVICES TO INTERFACE WITH THE SPRINKLER SYSTEM SPRINKLER SYSTEM CONNECTIONS INCLUDE, BUT IS NOT LIMITED TO, FLOW SWITCHES, PRESSURE SWITCHES, SUPERVISORY SWITCHES, ETC. COORDINATE QUANTITY AND LOCATION OF SWITCHES WITH THE SPRINKLER DRAWINGS AND INSTALLER FOR REQUIRED CONNECTIONS. NOTE THAT SPRINKLER DRAWINGS SHALL BE PROVIDED BY THE SPRINKLER CONTRACTOR.
E. PROVIDE ALL REQUIRED CONNECTIONS, MATERIALS AND FIRE ALARM DEVICES TO INTERFACE TO THE TRASH CHUTE DOOR INTERLOCKS. REFER TO THE TRASH CHUTE SUBMITTAL AND COORDINATE WITH THE INSTALLER TO PROVIDE ALL REQUIRED CONNECTIONS.
F. SIGNAL VOLTAGE CABLING INSTALLED IN AIR RETURN PLENUMS SHALL BE RATED FOR PLENUM USE.
G. FIRE ALARM SYSTEM DEVICES SHOWN ARE FOR BIDDING PURPOSES ONLY. SYSTEM SHALL BE DESIGNED BY AN ENTITY MEETING THE REQUIREMENTS LISTED IN THE SPECIFICATIONS. COORDINATE WORK WITH FIRE ALARM VENDOR PRIOR TO SUBMITTING BIDS.
H. ONLY FIRE ALARM SHOP DRAWINGS APPROVED BY ENGINEER AND PERMITTING AGENCY SHALL BE USED FOR CONSTRUCTION.
I. FIRE ALARM SYSTEM WIRING SHALL BE IN RED COLORED CONDUIT. INITIATING DEVICE CIRCUITS AND NOTIFICATION APPLIANCE CIRCUITS SHALL BE IN SEPARATE RACEWAYS. FIRE ALARM SYSTEM JUNCTION BOXES, BACK BOXES, AND PULL BOXES SHALL BE PAINTED RED.
J. PROVIDE A DEDICATED POWER CIRCUIT TO EACH FIRE ALARM EQUIPMENT PANEL OR POWER SUPPLY.
K. FIRE ALARM OCP DEVICES SHALL HAVE NON-REMOVABLE LOCKABLE HANDLE PAINTED RED.
L. PROVIDE QUANTITY OF POWER SUPPLIES AND NAC PANELS BASED UPON FINAL SYSTEM DESIGN AND REQUIRED SPARE CAPACITY. LOCATE ADDITIONAL PANELS ADJACENT TO THOSE SHOWN ON PLANS. DO NOT INSTALL ADDITIONAL EQUIPMENT IN OTHER AREAS OF THE PROJECT WITHOUT WRITTEN CONSENT BY THE ENGINEER.
M. COORDINATE WITH ELEVATOR SUPPLIER FOR CONNECTION OF FIRE ALARM INPUTS FOR RECALL AND SHUTDOWN. PROGRAM FUNCTIONS IN ACCORDANCE WITH NFPA 72 AND LATEST ADOPTED BUILDING CODES.
N. CONNECT TO FIRE/SMOKE DAMPERS WHERE SHOWN ON MECHANICAL PLANS, FIRE ALARM VENDOR DRAWINGS, AND WHERE REQUIRED BY CODE. COORDINATE WITH EQUIPMENT SUPPLIER FOR REQUIRED 120V CONNECTIONS. DAMPERS SHALL CLOSE UPON INITIATION OF FIRE ALARM SYSTEM AND SHALL OPEN AFTER RESET TO NORMAL. PROVIDE SMOKE DETECTION DEVICES AT DAMPERS AND INSTALL IN ACCORDANCE WITH NFPA 72 AND LATEST ADOPTED BUILDING CODES.
O. IDENTIFY LOCATIONS OF CONCEALED SMOKE DETECTION DEVICES IN ACCORDANCE WITH NFPA 72 AND LATEST ADOPTED BUILDING CODES.
P. PROVIDE ACCESS PANELS AS REQUIRED FOR MAINTENANCE AND TESTING FOR SMOKE DETECTORS LOCATED ABOVE INACCESSIBLE CEILINGS. COORDINATE SIZE AND LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION.
Q. SMOKE DETECTORS REQUIRED FOR RELEASE OF FIRE RATED DOORS SHALL BE LOCATED AND CONNECTED IN ACCORDANCE WITH NFPA 72.
R. FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR ALLOWABLE PROXIMITY OF CEILING MOUNTED SMOKE DETECTORS TO MECHANICAL DIFFUSERS.
S. VISUAL NOTIFICATION DEVICES SHALL BE SYNCHRONIZED.
T. EACH FIRE ALARM DEVICE SHALL BE LABELED WITH SELF ADHESIVE POLYESTER COATED PRINTED LABELS INDICATING DEVICE ADDRESS AND CIRCUIT PER FIRE ALARM SHOP DRAWINGS.
U. PROVIDE CONNECTIONS TO FIRE SPRINKLER SYSTEM PER SPRINKLER SYSTEM SHOP DRAWINGS, FIRE ALARM VENDOR DRAWINGS, AND AS REQUIRED BY NFPA 13. EACH CONNECTION OR MONITOR POINT SHALL BE INDIVIDUALLY ADDRESSED. PROVIDE MONITOR MODULES AS REQUIRED FOR COMPLETE AND OPERABLE SYSTEM.
V. COORDINATE WITH OWNER AND AHJ FOR PHONE CONNECTION AND DIALING SERVICES OF FIRE ALARM CONTROL PANEL.

KEYPLAN



PLAN NOTES

1. SMOKE DETECTOR SHALL BE INTERLOCKED WITH ELEVATOR CONTROLLER AS REQUIRED FOR ELEVATOR RECALL PER NFPA 72 GUIDELINES. CONNECT TO ELEVATOR SMOKE CURTAIN FOR DEPLOYMENT UPON SMOKE DETECTOR ACTIVATION.
2. SMOKE AND HEAT DETECTORS SHALL BE MOUNTED AT ELEVATOR PIT. LOCATE DETECTORS PER NFPA 72 GUIDELINES. SMOKE DETECTORS SHALL BE INTERLOCKED WITH ELEVATOR CONTROLLER AS REQUIRED FOR ELEVATOR FIREMAN RECALL. HEAT DETECTOR SHALL BE INTERLOCKED WITH SHUNT TRIP OPERATOR OF ELEVATOR CONTROLLER POWER DISCONNECT.
3. FIRE ALARM CONTROL PANEL.
4. FIRE ALARM REMOTE ANNUNCIATOR. PROVIDE FLUSH MOUNT IN WALL.

STATE OF MISSOURI
CHRISTOPHER IVAN WILLIAMS
NUMBER PE-2009009254
PROFESSIONAL ENGINEER

BID SET

PROJECT TITLE

John Knox Village

MEADOWS BUILDING PHASE III

SFCS Architecture Engineering Planning Interiors
SFCS Inc. ▪ 305 South Jefferson Street
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540.344.6664 ▪ Fax 540.343.6925
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DESIGNER	: DAS	DRAWN	: JDM
ARCHITECT	: DAS	CHECKED	: CIW
ENGINEER	: NAD	APPROVED	: CIW

NO.	REVISION DESCRIPTION	DATE

DRAWING TITLE

GARAGE FLOOR PLAN - AREA B - FIRE ALARM

DATE: 03/13/2026
COMM. NO. 25116.00
DRAWING E7.1b

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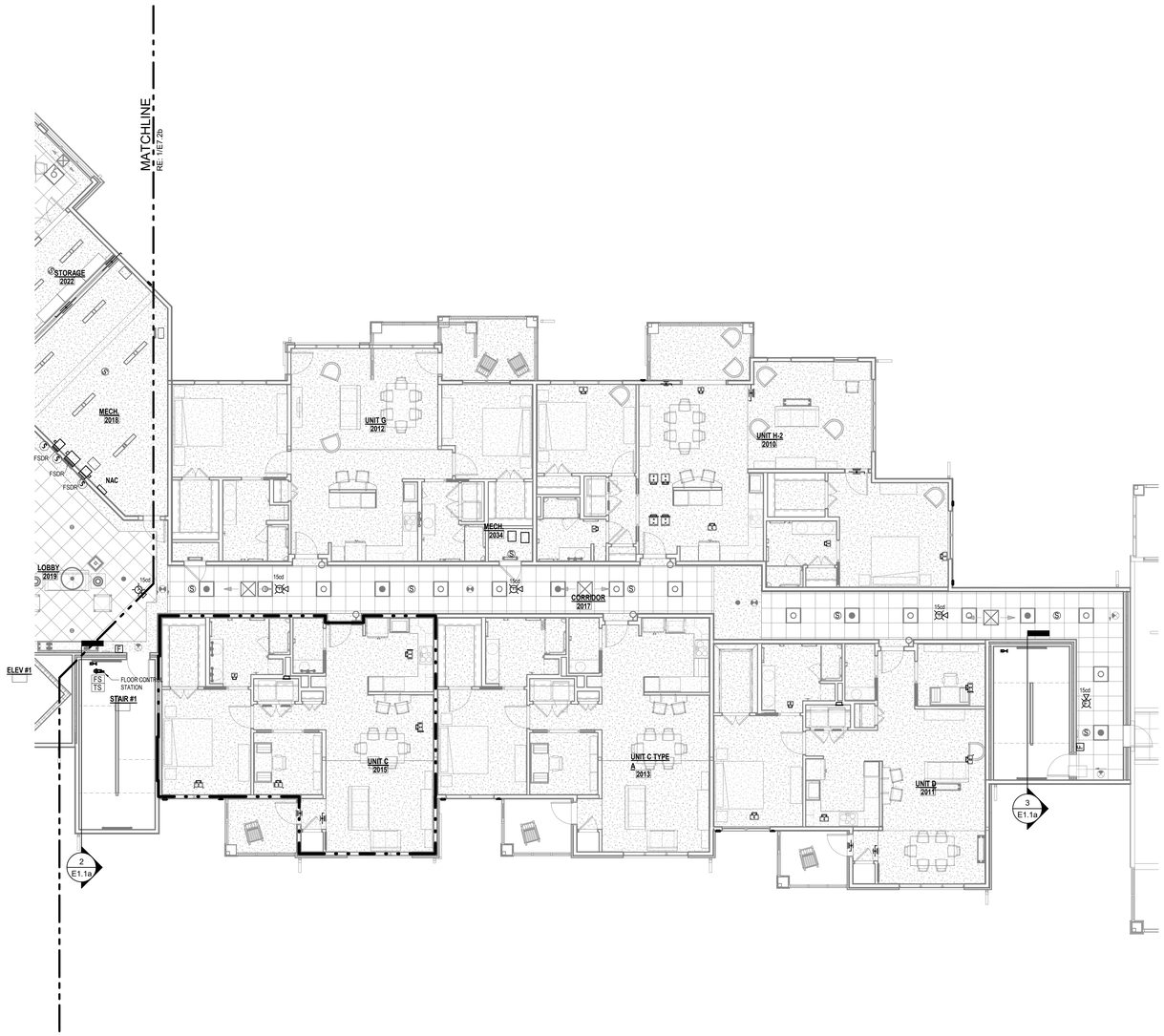
Roanoke, Virginia 24011.2003

NOTE:
CONTRACTOR SHALL REFER TO SHEETS E3.3 & E3.4, ENLARGED UNIT PLANS, FOR FIRE ALARM DEVICE LOCATIONS WITHIN RESIDENT UNITS.

GENERAL NOTES

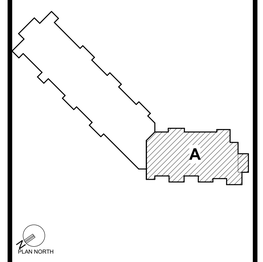
A. PROVIDE DUCT DETECTORS WITHIN 5'-0" OF ALL FIRE SMOKE DAMPERS PER IBC, MECHANICAL, 2017 EDITION, SECTION 607.3.3.2(1).
B. PROVIDE ALL REQUIRED CONNECTIONS, MATERIALS AND FIRE ALARM DEVICES TO INTERFACE TO ANY LOW VOLTAGE EQUIPMENT. LOW VOLTAGE EQUIPMENT INCLUDES, BUT IS NOT LIMITED TO, NURSE CALL SYSTEM, EMERGENCY CALL SYSTEM, WANDER MANAGEMENT SYSTEM, DOOR SECURITY SYSTEM, ETC. REFER TO LOW VOLTAGE SUBMITTALS AND COORDINATE WITH THE LOW VOLTAGE INSTALLERS FOR REQUIRED CONNECTIONS.
C. PROVIDE ALL REQUIRED CONNECTIONS, MATERIALS AND FIRE ALARM DEVICES TO INTERFACE TO HVAC EQUIPMENT. REFER TO THE HVAC DRAWINGS, SPECIFICATIONS AND SUBMITTALS FOR REQUIRED CONNECTIONS.
D. PROVIDE ALL REQUIRED CONNECTIONS, MATERIALS AND FIRE ALARM DEVICES TO INTERFACE WITH THE SPRINKLER SYSTEM SPRINKLER SYSTEM CONNECTIONS INCLUDE, BUT IS NOT LIMITED TO, FLOW SWITCHES, PRESSURE SWITCHES, SUPERVISORY SWITCHES, ETC. COORDINATE QUANTITY AND LOCATION OF SWITCHES WITH THE SPRINKLER DRAWINGS AND INSTALLER FOR REQUIRED CONNECTIONS. NOTE THAT SPRINKLER DRAWINGS SHALL BE PROVIDED BY THE SPRINKLER CONTRACTOR.
E. PROVIDE ALL REQUIRED CONNECTIONS, MATERIALS AND FIRE ALARM DEVICES TO INTERFACE TO THE TRASH CHUTE DOOR INTERLOCKS. REFER TO THE TRASH CHUTE SUBMITTAL AND COORDINATE WITH THE INSTALLER TO PROVIDE ALL REQUIRED CONNECTIONS.
F. SIGNAL VOLTAGE CABLING INSTALLED IN AIR RETURN PLENUMS SHALL BE RATED FOR PLENUM USE.
G. FIRE ALARM SYSTEM DEVICES SHOWN ARE FOR BIDDING PURPOSES ONLY. SYSTEM SHALL BE DESIGNED BY AN ENTITY MEETING THE REQUIREMENTS LISTED IN THE SPECIFICATIONS. COORDINATE WORK WITH FIRE ALARM VENDOR PRIOR TO SUBMITTING BIDS.
H. ONLY FIRE ALARM SHOP DRAWINGS APPROVED BY ENGINEER AND PERMITTING AGENCY SHALL BE USED FOR CONSTRUCTION.
I. FIRE ALARM SYSTEM WIRING SHALL BE IN RED COLORED CONDUIT. INITIATING DEVICE CIRCUITS AND NOTIFICATION APPLIANCE CIRCUITS SHALL BE IN SEPARATE RACEWAYS. FIRE ALARM SYSTEM JUNCTION BOXES, BACK BOXES, AND PULL BOXES SHALL BE PAINTED RED.
J. PROVIDE A DEDICATED POWER CIRCUIT TO EACH FIRE ALARM EQUIPMENT PANEL OR POWER SUPPLY.
K. FIRE ALARM OCP DEVICES SHALL HAVE NON-REMOVABLE LOCKABLE HANDLE PAINTED RED.
L. PROVIDE QUANTITY OF POWER SUPPLIES AND NAC PANELS BASED UPON FINAL SYSTEM DESIGN AND REQUIRED SPARE CAPACITY. LOCATE ADDITIONAL PANELS ADJACENT TO THOSE SHOWN ON PLANS. DO NOT INSTALL ADDITIONAL EQUIPMENT IN OTHER AREAS OF THE PROJECT WITHOUT WRITTEN CONSENT BY THE ENGINEER.
M. COORDINATE WITH ELEVATOR SUPPLIER FOR CONNECTION OF FIRE ALARM INPUTS FOR RECALL AND SHUTDOWN. PROGRAM FUNCTIONS IN ACCORDANCE WITH NFPA 72 AND LATEST ADOPTED BUILDING CODES.
N. CONNECT TO FIRE/SMOKE DAMPERS WHERE SHOWN ON MECHANICAL PLANS. FIRE ALARM VENDOR DRAWINGS, AND WHERE REQUIRED BY CODE. COORDINATE WITH EQUIPMENT SUPPLIER FOR REQUIRED 120V CONNECTIONS. DAMPERS SHALL CLOSE UPON INITIATION OF FIRE ALARM SYSTEM AND SHALL OPEN AFTER RESET TO NORMAL. PROVIDE SMOKE DETECTION DEVICES AT DAMPERS AND INSTALL IN ACCORDANCE WITH NFPA 72 AND LATEST ADOPTED BUILDING CODES.
O. IDENTIFY LOCATIONS OF CONCEALED SMOKE DETECTION DEVICES IN ACCORDANCE WITH NFPA 72 AND LATEST ADOPTED BUILDING CODES.
P. PROVIDE ACCESS PANELS AS REQUIRED FOR MAINTENANCE AND TESTING FOR SMOKE DETECTORS LOCATED ABOVE INACCESSIBLE CEILINGS. COORDINATE SIZE AND LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION.
Q. SMOKE DETECTORS REQUIRED FOR RELEASE OF FIRE RATED DOORS SHALL BE LOCATED AND CONNECTED IN ACCORDANCE WITH NFPA 72.
R. FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR ALLOWABLE PROXIMITY OF CEILING MOUNTED SMOKE DETECTORS TO MECHANICAL DIFFUSERS.
S. VISUAL NOTIFICATION DEVICES SHALL BE SYNCHRONIZED.
T. EACH FIRE ALARM DEVICE SHALL BE LABELED WITH SELF ADHESIVE POLYESTER COATED PRINTED LABELS INDICATING DEVICE ADDRESS AND CIRCUIT PER FIRE ALARM SHOP DRAWINGS.
U. PROVIDE CONNECTIONS TO FIRE SPRINKLER SYSTEM PER SPRINKLER SYSTEM SHOP DRAWINGS. FIRE ALARM VENDOR DRAWINGS, AND AS REQUIRED BY NFPA 13. EACH CONNECTION OR MONITOR POINT SHALL BE INDIVIDUALLY ADDRESSED. PROVIDE MONITOR MODULES AS REQUIRED FOR COMPLETE AND OPERABLE SYSTEM.
V. COORDINATE WITH OWNER AND AHJ FOR PHONE CONNECTION AND DIALING SERVICES OF FIRE ALARM CONTROL PANEL.



1 / E7.2a SECOND FLOOR PLAN - AREA A - FIRE ALARM
1/8" = 1'-0"

PLAN NORTH

KEYPLAN



STATE OF MISSOURI
CHRISTOPHER IAN WILLIAMS
NUMBER
PE-2026000254
PROFESSIONAL ENGINEER
BID SET

PROJECT TITLE
John Knox Village
MEADOWS BUILDING PHASE III

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ARCHITECT	: DAS	CHECKED	: CIW
ENGINEER	: NAD	APPROVED	: CIW

NO.	REVISION DESCRIPTION	DATE

DRAWING TITLE
SECOND FLOOR PLAN - AREA A - FIRE ALARM

DATE: 03/13/2026
COMM. NO. 25116.00
DRAWING E7.2a

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NOTE:
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GENERAL NOTES

A. PROVIDE DUCT DETECTORS WITHIN 5'-0" OF ALL FIRE SMOKE DAMPERS PER IBC, MECHANICAL, 2017 EDITION, SECTION 607.3.3.2(1).
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K. FIRE ALARM OCP DEVICES SHALL HAVE NON-REMOVABLE LOCKABLE HANDLE PAINTED RED.
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M. COORDINATE WITH ELEVATOR SUPPLIER FOR CONNECTION OF FIRE ALARM INPUTS FOR RECALL AND SHUTDOWN. PROGRAM FUNCTIONS IN ACCORDANCE WITH NFPA 72 AND LATEST ADOPTED BUILDING CODES.
N. CONNECT TO FIRE/SMOKE DAMPERS WHERE SHOWN ON MECHANICAL PLANS, FIRE ALARM VENDOR DRAWINGS, AND WHERE REQUIRED BY CODE. COORDINATE WITH EQUIPMENT SUPPLIER FOR REQUIRED 120V CONNECTIONS. DAMPERS SHALL CLOSE UPON INITIATION OF FIRE ALARM SYSTEM AND SHALL OPEN AFTER RESET TO NORMAL. PROVIDE SMOKE DETECTION DEVICES AT DAMPERS AND INSTALL IN ACCORDANCE WITH NFPA 72 AND LATEST ADOPTED BUILDING CODES.
O. IDENTIFY LOCATIONS OF CONCEALED SMOKE DETECTION DEVICES IN ACCORDANCE WITH NFPA 72 AND LATEST ADOPTED BUILDING CODES.
P. PROVIDE ACCESS PANELS AS REQUIRED FOR MAINTENANCE AND TESTING FOR SMOKE DETECTORS LOCATED ABOVE INACCESSIBLE CEILINGS. COORDINATE SIZE AND LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION.
Q. SMOKE DETECTORS REQUIRED FOR RELEASE OF FIRE RATED DOORS SHALL BE LOCATED AND CONNECTED IN ACCORDANCE WITH NFPA 72.
R. FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR ALLOWABLE PROXIMITY OF CEILING MOUNTED SMOKE DETECTORS TO MECHANICAL DIFFUSERS.
S. VISUAL NOTIFICATION DEVICES SHALL BE SYNCHRONIZED.
T. EACH FIRE ALARM DEVICE SHALL BE LABELED WITH SELF ADHESIVE POLYESTER COATED PRINTED LABELS INDICATING DEVICE ADDRESS AND CIRCUIT PER FIRE ALARM SHOP DRAWINGS.
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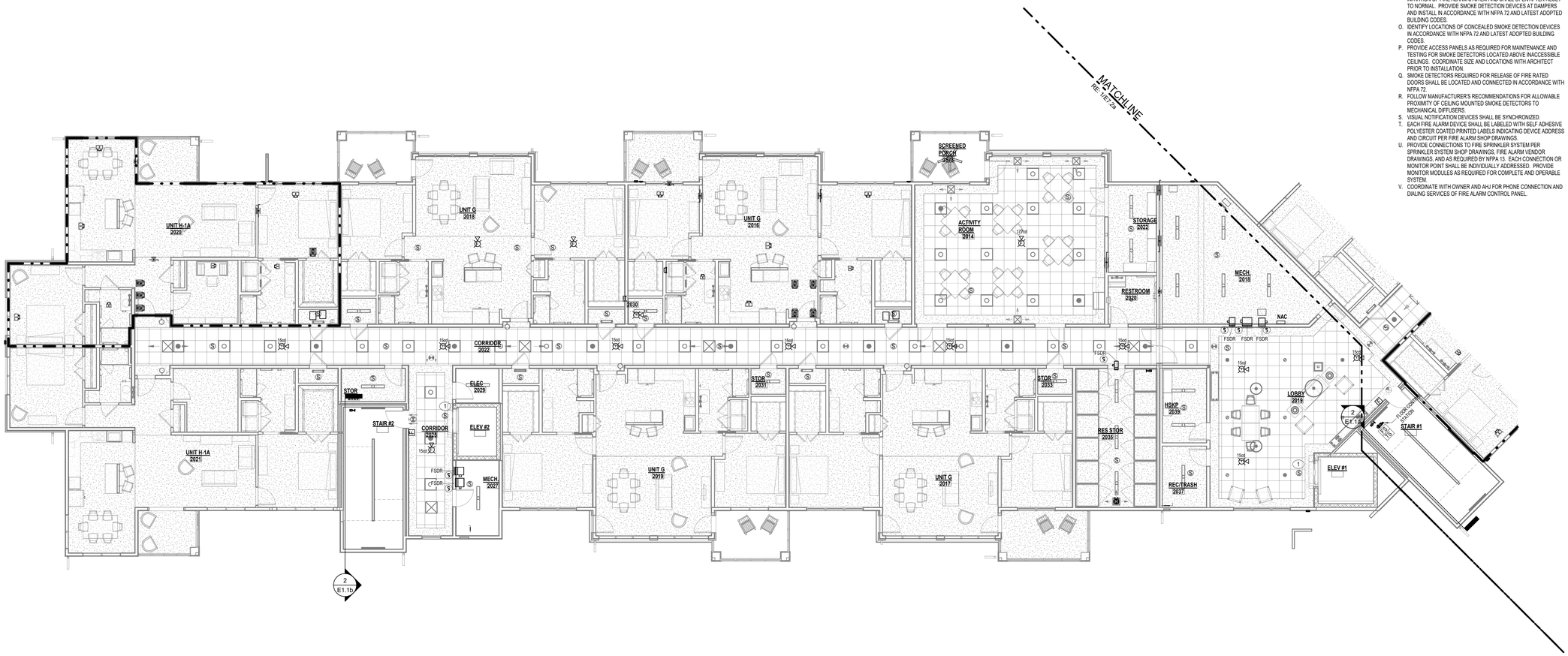
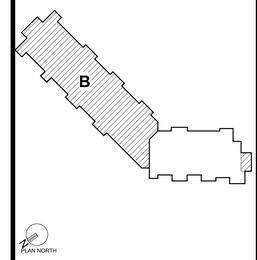
V. COORDINATE WITH OWNER AND AHJ FOR PHONE CONNECTION AND DIALING SERVICES OF FIRE ALARM CONTROL PANEL.



1 E7.2b SECOND FLOOR PLAN - AREA B - FIRE ALARM
1/8" = 1'-0"

KEYPLAN



PLAN NOTES

1. SMOKE DETECTOR SHALL BE INTERLOCKED WITH ELEVATOR CONTROLLER AS REQUIRED FOR ELEVATOR RECALL PER NFPA 72 GUIDELINES. CONNECT TO ELEVATOR SMOKE CURTAIN FOR DEPLOYMENT UPON SMOKE DETECTOR ACTIVATION.

STATE OF MISSOURI
CHRISTOPHER WIALL
NUMBER
PE-2009009754
PROFESSIONAL ENGINEER

BID SET

PROJECT TITLE

John Knox Village

MEADOWS BUILDING PHASE III

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ARCHITECT	: DAS	CHECKED	: CIW
ENGINEER	: NAD	APPROVED	: CIW

NO.	REVISION DESCRIPTION	DATE

DRAWING TITLE
SECOND FLOOR PLAN - AREA B - FIRE ALARM

DATE: 03/13/2026
COMM. NO. 25116.00
DRAWING E7.2b

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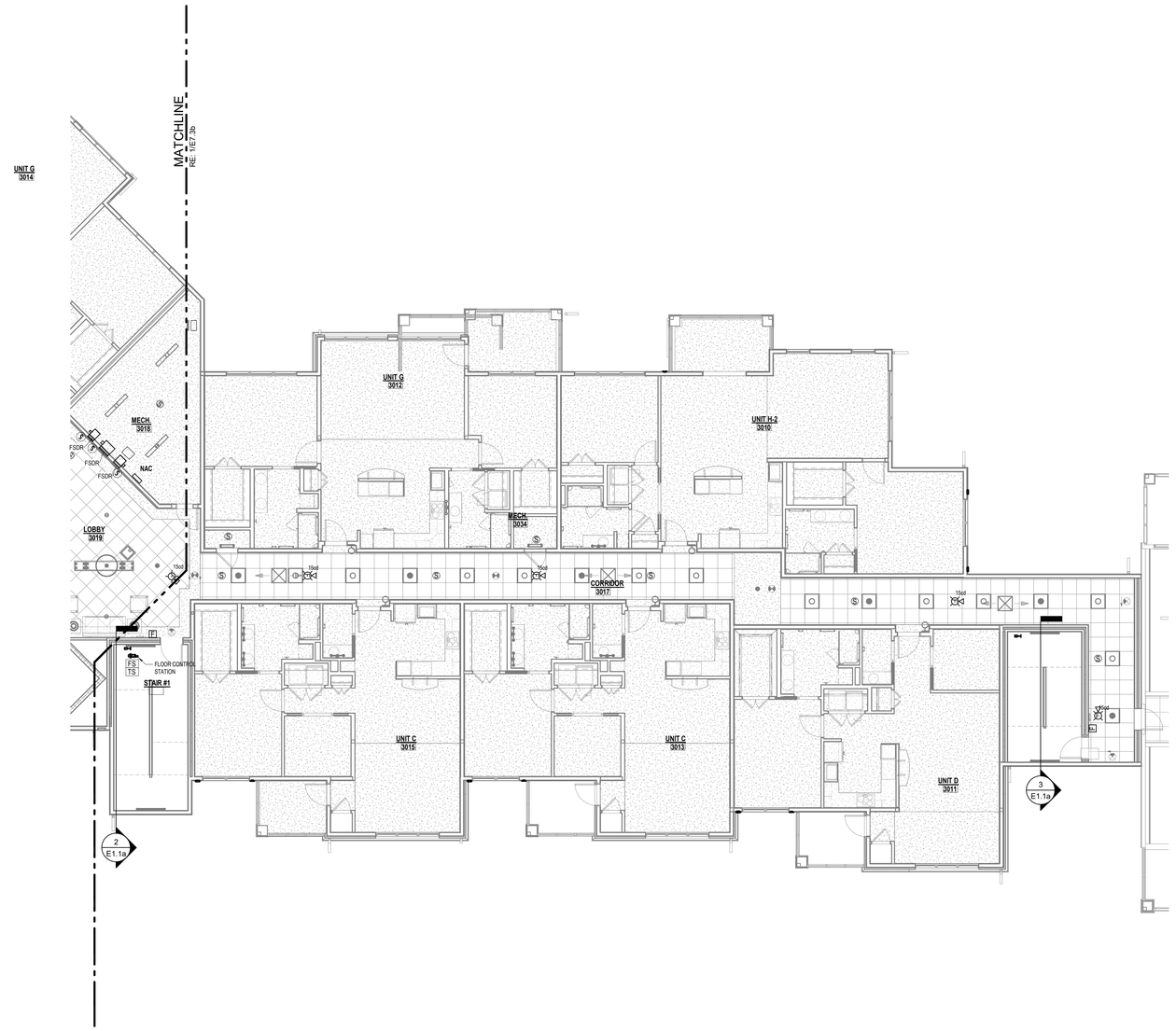

GENERAL NOTES

A. PROVIDE DUCT DETECTORS WITHIN 5'-0" OF ALL FIRE SMOKE DAMPERS PER IBC, MECHANICAL, 2017 EDITION, SECTION 607.3.3.2(1).
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G. FIRE ALARM SYSTEM DEVICES SHOWN ARE FOR BIDDING PURPOSES ONLY. SYSTEM SHALL BE DESIGNED BY AN ENTITY MEETING THE REQUIREMENTS LISTED IN THE SPECIFICATIONS. COORDINATE WORK WITH FIRE ALARM VENDOR PRIOR TO SUBMITTING BIDS.
H. ONLY FIRE ALARM SHOP DRAWINGS APPROVED BY ENGINEER AND PERMITTING AGENCY SHALL BE USED FOR CONSTRUCTION.
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K. FIRE ALARM OCP DEVICES SHALL HAVE NON-REMOVABLE LOCKABLE HANDLE PAINTED RED.
L. PROVIDE QUANTITY OF POWER SUPPLIES AND NAC PANELS BASED UPON FINAL SYSTEM DESIGN AND REQUIRED SPARE CAPACITY. LOCATE ADDITIONAL PANELS ADJACENT TO THOSE SHOWN ON PLANS. DO NOT INSTALL ADDITIONAL EQUIPMENT IN OTHER AREAS OF THE PROJECT WITHOUT WRITTEN CONSENT BY THE ENGINEER.
M. COORDINATE WITH ELEVATOR SUPPLIER FOR CONNECTION OF FIRE ALARM INPUTS FOR RECALL AND SHUTDOWN. PROGRAM FUNCTIONS IN ACCORDANCE WITH NFPA 72 AND LATEST ADOPTED BUILDING CODES.
N. CONNECT TO FIRE/SMOKE DAMPERS WHERE SHOWN ON MECHANICAL PLANS. FIRE ALARM VENDOR DRAWINGS, AND WHERE REQUIRED BY CODE. COORDINATE WITH EQUIPMENT SUPPLIER FOR REQUIRED 120V CONNECTIONS. DAMPERS SHALL CLOSE UPON INITIATION OF FIRE ALARM SYSTEM AND SHALL OPEN AFTER RESET TO NORMAL. PROVIDE SMOKE DETECTION DEVICES AT DAMPERS AND INSTALL IN ACCORDANCE WITH NFPA 72 AND LATEST ADOPTED BUILDING CODES.
O. IDENTIFY LOCATIONS OF CONCEALED SMOKE DETECTION DEVICES IN ACCORDANCE WITH NFPA 72 AND LATEST ADOPTED BUILDING CODES.
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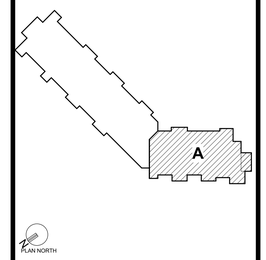
V. COORDINATE WITH OWNER AND AHJ FOR PHONE CONNECTION AND DIALING SERVICES OF FIRE ALARM CONTROL PANEL.

KEYPLAN



1 E7.3a THIRD FLOOR PLAN - AREA A - FIRE ALARM
1/8" = 1'-0"

PLAN NORTH

BID SET

PROJECT TITLE

John Knox Village

MEADOWS BUILDING PHASE III

SFCS Architecture Engineering Planning Interiors
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Roanoke, Virginia 24011.2003
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DESIGNER : DAS	DRAWN : JDM
ARCHITECT : DAS	CHECKED : CIW
ENGINEER : NAD	APPROVED : CIW

NO.	REVISION DESCRIPTION	DATE

DRAWING TITLE
THIRD FLOOR PLAN - AREA A - FIRE ALARM

DATE: 03/13/2026
COMM. NO. 25116.00
DRAWING E7.3a

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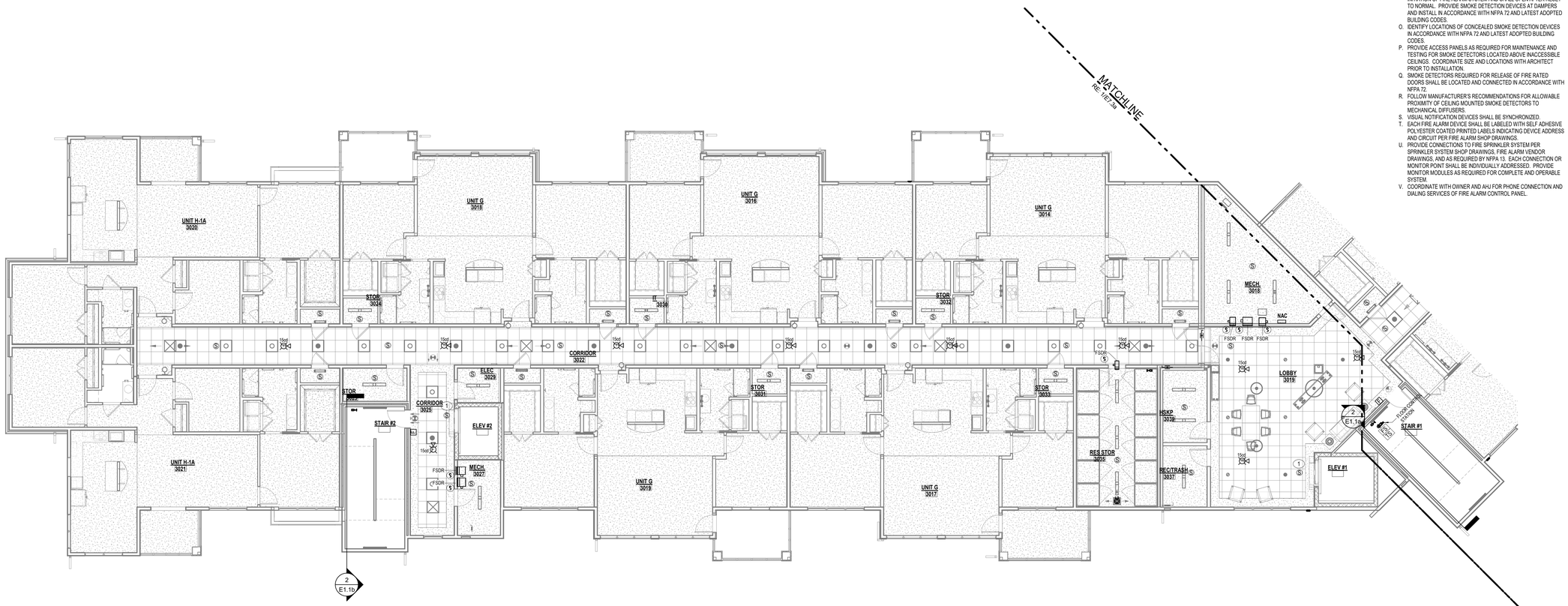

1 THIRD FLOOR PLAN - AREA B - FIRE ALARM
E7.3b 1/8" = 1'-0"

GENERAL NOTES

A. PROVIDE DUCT DETECTORS WITHIN 5'-0" OF ALL FIRE SMOKE DAMPERS PER IBC, MECHANICAL, 2017 EDITION, SECTION 607.3.3.2(1).
B. PROVIDE ALL REQUIRED CONNECTIONS, MATERIALS AND FIRE ALARM DEVICES TO INTERFACE TO ANY LOW VOLTAGE EQUIPMENT. LOW VOLTAGE EQUIPMENT INCLUDES, BUT IS NOT LIMITED TO, NURSE CALL SYSTEM, EMERGENCY CALL SYSTEM, WANDER MANAGEMENT SYSTEM, DOOR SECURITY SYSTEM, ETC. REFER TO LOW VOLTAGE SUBMITTALS AND COORDINATE WITH THE LOW VOLTAGE INSTALLERS FOR REQUIRED CONNECTIONS.
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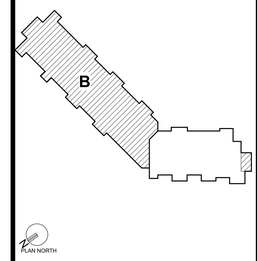
L. PROVIDE QUANTITY OF POWER SUPPLIES AND NAC PANELS BASED UPON FINAL SYSTEM DESIGN AND REQUIRED SPARE CAPACITY. LOCATE ADDITIONAL PANELS ADJACENT TO THOSE SHOWN ON PLANS. DO NOT INSTALL ADDITIONAL EQUIPMENT IN OTHER AREAS OF THE PROJECT WITHOUT WRITTEN CONSENT BY THE ENGINEER.
M. COORDINATE WITH ELEVATOR SUPPLIER FOR CONNECTION OF FIRE ALARM INPUTS FOR RECALL AND SHUTDOWN. PROGRAM FUNCTIONS IN ACCORDANCE WITH NFPA 72 AND LATEST ADOPTED BUILDING CODES.
N. CONNECT TO FIRE/SMOKE DAMPERS WHERE SHOWN ON MECHANICAL PLANS. FIRE ALARM VENDOR DRAWINGS, AND WHERE REQUIRED BY CODE. COORDINATE WITH EQUIPMENT SUPPLIER FOR REQUIRED 120V CONNECTIONS. DAMPERS SHALL CLOSE UPON INITIATION OF FIRE ALARM SYSTEM AND SHALL OPEN AFTER RESET TO NORMAL. PROVIDE SMOKE DETECTION DEVICES AT DAMPERS AND INSTALL IN ACCORDANCE WITH NFPA 72 AND LATEST ADOPTED BUILDING CODES.
O. IDENTIFY LOCATIONS OF CONCEALED SMOKE DETECTION DEVICES IN ACCORDANCE WITH NFPA 72 AND LATEST ADOPTED BUILDING CODES.
P. PROVIDE ACCESS PANELS AS REQUIRED FOR MAINTENANCE AND TESTING FOR SMOKE DETECTORS LOCATED ABOVE INACCESSIBLE CEILINGS. COORDINATE SIZE AND LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION.
Q. SMOKE DETECTORS REQUIRED FOR RELEASE OF FIRE RATED DOORS SHALL BE LOCATED AND CONNECTED IN ACCORDANCE WITH NFPA 72.
R. FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR ALLOWABLE PROXIMITY OF CEILING MOUNTED SMOKE DETECTORS TO MECHANICAL DIFFUSERS.
S. VISUAL NOTIFICATION DEVICES SHALL BE SYNCHRONIZED.
T. EACH FIRE ALARM DEVICE SHALL BE LABELED WITH SELF ADHESIVE POLYESTER COATED PRINTED LABELS INDICATING DEVICE ADDRESS AND CIRCUIT PER FIRE ALARM SHOP DRAWINGS.
U. PROVIDE CONNECTIONS TO FIRE SPRINKLER SYSTEM PER SPRINKLER SYSTEM SHOP DRAWINGS. FIRE ALARM VENDOR DRAWINGS, AND AS REQUIRED BY NFPA 13. EACH CONNECTION OR MONITOR POINT SHALL BE INDIVIDUALLY ADDRESSED. PROVIDE MONITOR MODULES AS REQUIRED FOR COMPLETE AND OPERABLE SYSTEM.
V. COORDINATE WITH OWNER AND AHJ FOR PHONE CONNECTION AND DIALING SERVICES OF FIRE ALARM CONTROL PANEL.

KEYPLAN



PLAN NOTES

1. SMOKE DETECTOR SHALL BE INTERLOCKED WITH ELEVATOR CONTROLLER AS REQUIRED FOR ELEVATOR RECALL PER NFPA 72 GUIDELINES. CONNECT TO ELEVATOR SMOKE CURTAIN FOR DEPLOYMENT UPON SMOKE DETECTOR ACTIVATION.

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Roanoke, Virginia 24011-2003

STATE OF MISSOURI
CHRISTOPHER WALLACE MILLER
NUMBER PE-2025003254
22-12-2025
PROFESSIONAL ENGINEER
BID SET

PROJECT TITLE

John Knox Village

MEADOWS BUILDING PHASE III

SFCS Architecture Engineering Planning Interiors
SFCS Inc. ▪ 305 South Jefferson Street
Roanoke, Virginia 24011.2003
540.344.6664 ▪ Fax 540.343.6925
www.sfcs.com

DESIGNER	: DAS	DRAWN	: JDM
ARCHITECT	: DAS	CHECKED	: CIW
ENGINEER	: NAD	APPROVED	: CIW

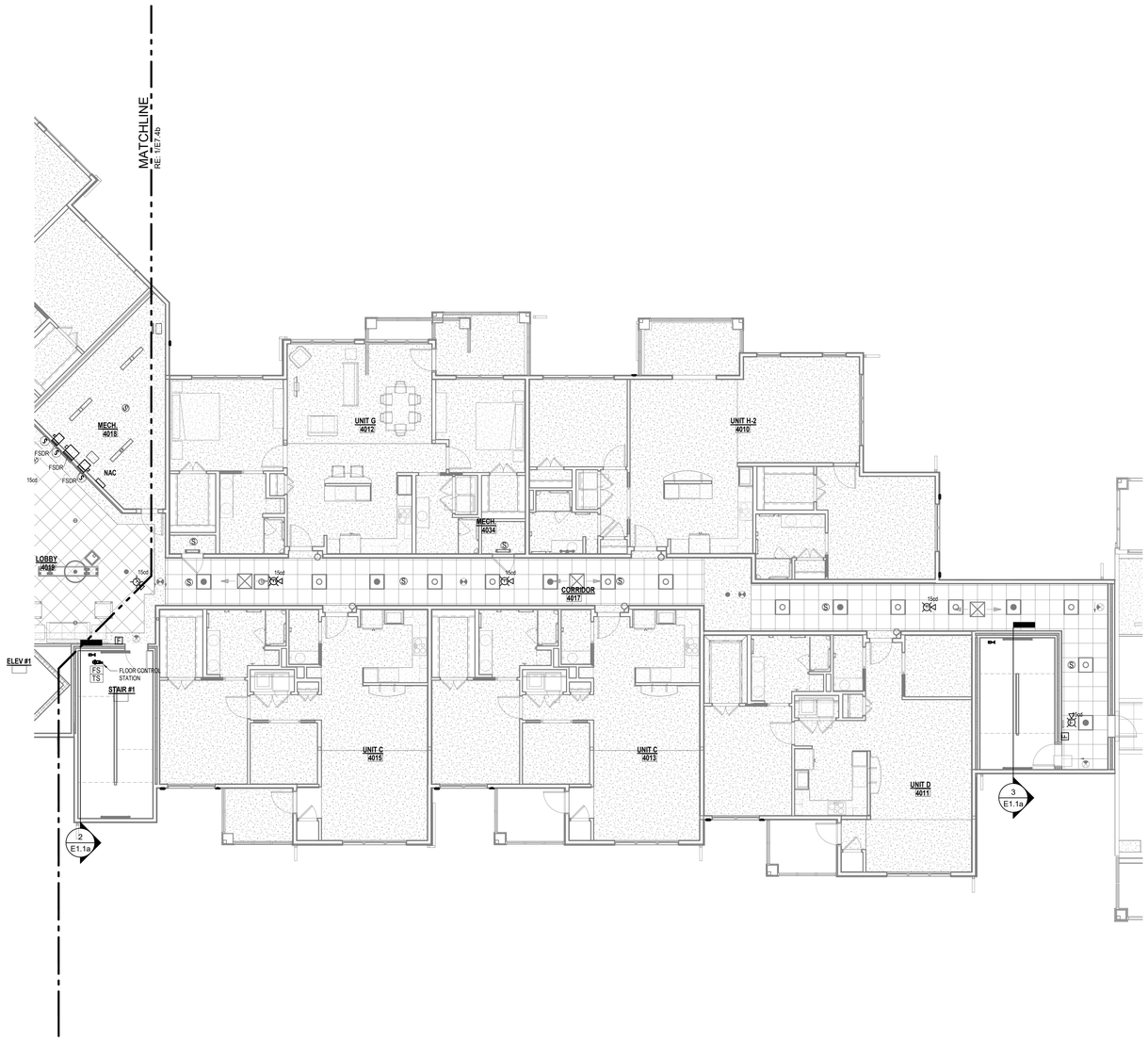
NO.	REVISION DESCRIPTION	DATE

DRAWING TITLE
THIRD FLOOR PLAN - AREA B - FIRE ALARM

DATE: 03/13/2026
COMM. NO. 25116.00
DRAWING E7.3b

3/13/2026
1:07:04 PM
Autodesk Docs://25116.00 - John Knox Village - Meadows III/25116.00 - John Knox Village - Meadows III - ELECTRICAL CENTRAL.rvt

NOTE:
CONTRACTOR SHALL REFER TO SHEETS E3.3 & E3.4, ENLARGED UNIT PLANS, FOR FIRE ALARM DEVICE LOCATIONS WITHIN RESIDENT UNITS.



GENERAL NOTES

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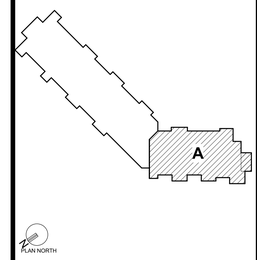
V. COORDINATE WITH OWNER AND AHJ FOR PHONE CONNECTION AND DIALING SERVICES OF FIRE ALARM CONTROL PANEL.

KEYPLAN



1 E7.4a FOURTH FLOOR PLAN - AREA A - FIRE ALARM
1/8" = 1'-0"

PLAN NORTH

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STATE OF MISSOURI
CHRISTOPHER WIALL MILLER
NUMBER PE-2009003754
PROFESSIONAL ENGINEER
BID SET

PROJECT TITLE

John Knox Village

MEADOWS BUILDING PHASE III

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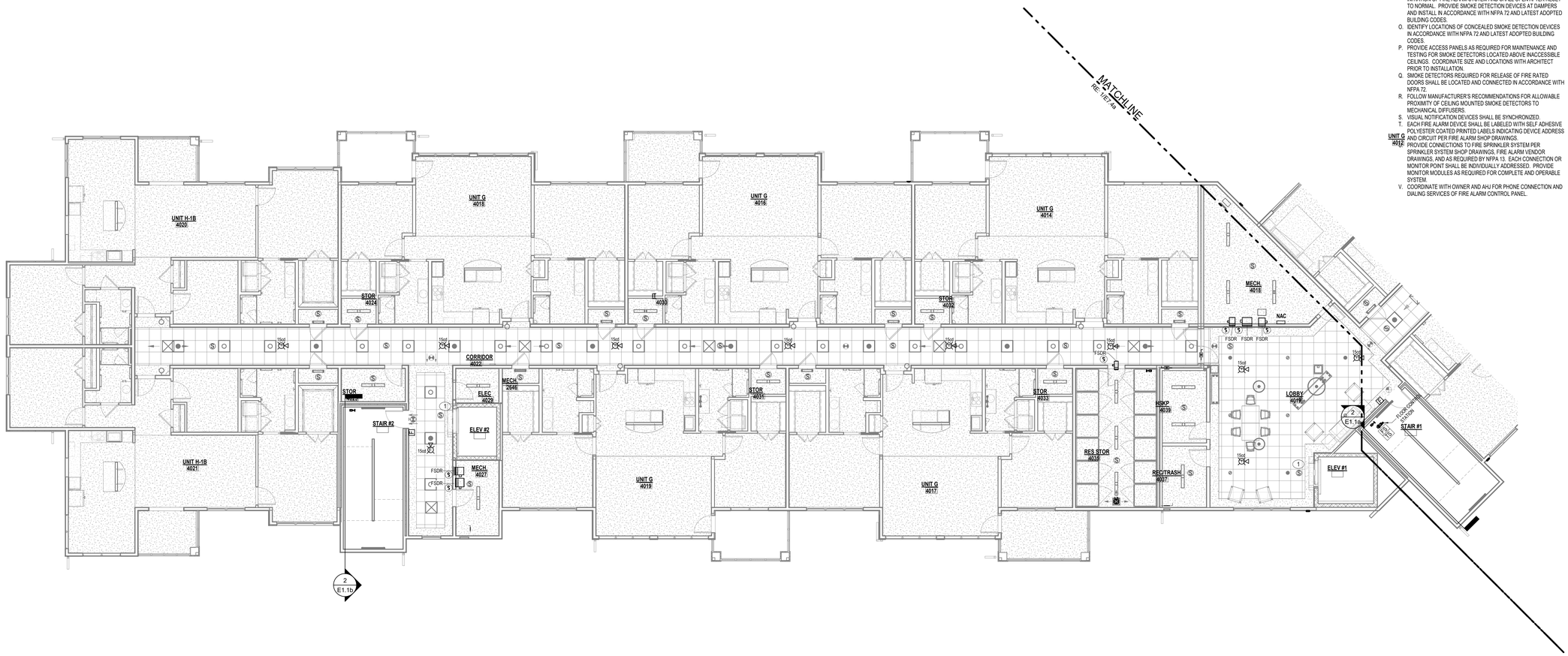
DESIGNER : DAS	DRAWN : JDM
ARCHITECT : DAS	CHECKED : CIW
ENGINEER : NAD	APPROVED : CIW

NO.	REVISION DESCRIPTION	DATE

DRAWING TITLE
FOURTH FLOOR PLAN - AREA A - FIRE ALARM

DATE: 03/13/2026
COMM. NO. 25116.00
DRAWING E7.4a

NOTE:
CONTRACTOR SHALL REFER TO SHEETS E3.3 & E3.4, ENLARGED UNIT PLANS, FOR FIRE ALARM DEVICE LOCATIONS WITHIN RESIDENT UNITS.



1 FOURTH FLOOR PLAN - AREA B - FIRE ALARM
E7.4b 1/8" = 1'-0"

GENERAL NOTES

A. PROVIDE DUCT DETECTORS WITHIN 5'-0" OF ALL FIRE SMOKE DAMPERS PER IBC, MECHANICAL, 2017 EDITION, SECTION 607.3.3.2(1).
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UNIT G 4015
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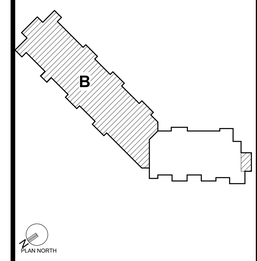
KEYPLAN



PLAN NOTES

1. SMOKE DETECTOR SHALL BE INTERLOCKED WITH ELEVATOR CONTROLLER AS REQUIRED FOR ELEVATOR RECALL PER NFPA 72 GUIDELINES. CONNECT TO ELEVATOR SMOKE CURTAIN FOR DEPLOYMENT UPON SMOKE DETECTOR ACTIVATION.

STATE OF MISSOURI
CHRISTOPHER IAN MILLER
NUMBER
PE-2009000254
PROFESSIONAL ENGINEER
BID SET

PROJECT TITLE
John Knox Village
MEADOWS BUILDING PHASE III

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SFCS Inc. ▪ 305 South Jefferson Street
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www.sfcs.com

DESIGNER : DAS	DRAWN : JDM
ARCHITECT : DAS	CHECKED : CIW
ENGINEER : NAD	APPROVED : CIW

NO.	REVISION DESCRIPTION	DATE

DRAWING TITLE
FOURTH FLOOR PLAN - AREA B - FIRE ALARM

DATE: 03/13/2026
COMM. NO. 25116.00
DRAWING E7.4b

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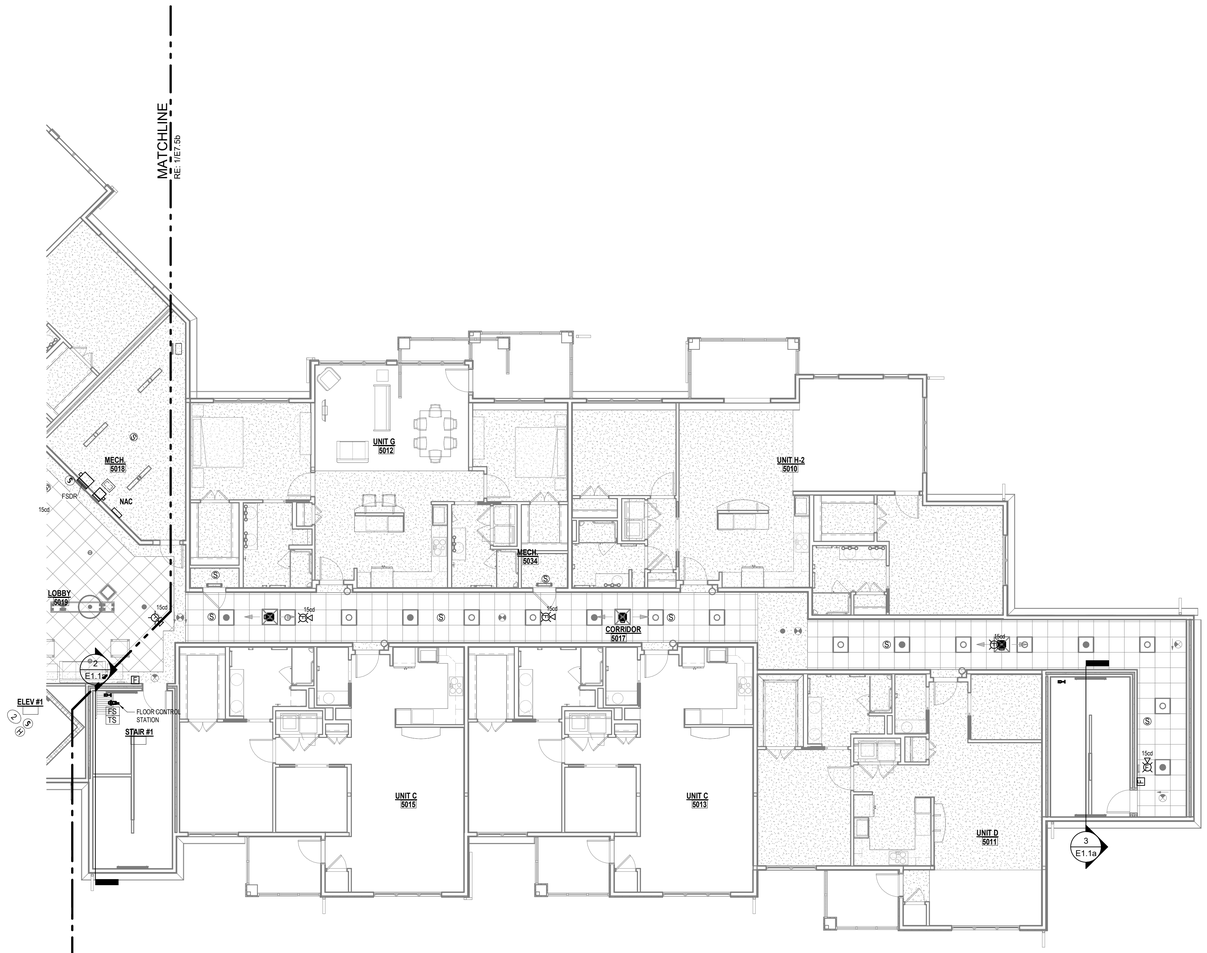

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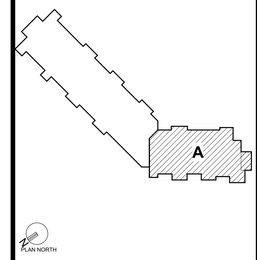
PLAN NORTH

1 E7.5a FIFTH FLOOR PLAN - AREA A - FIRE ALARM
1/8" = 1'-0"

KEYPLAN



PLAN NOTES

GENERAL NOTES

CHRISTOPHER WALLACE
NUMBER
PE-2025003254
STATE OF MISSOURI
PROFESSIONAL ENGINEER

BID SET

PROJECT TITLE

John Knox Village

MEADOWS BUILDING PHASE III

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www.sfcs.com

DESIGNER	: DAS	DRAWN	: JDM
ARCHITECT	: DAS	CHECKED	: CIW
ENGINEER	: NAD	APPROVED	: CIW

NO.	REVISION DESCRIPTION	DATE

DRAWING TITLE

FIFTH FLOOR PLAN - AREA A - FIRE ALARM

DATE: 03/13/2026
COMM. NO. 25116.00
DRAWING E7.5a

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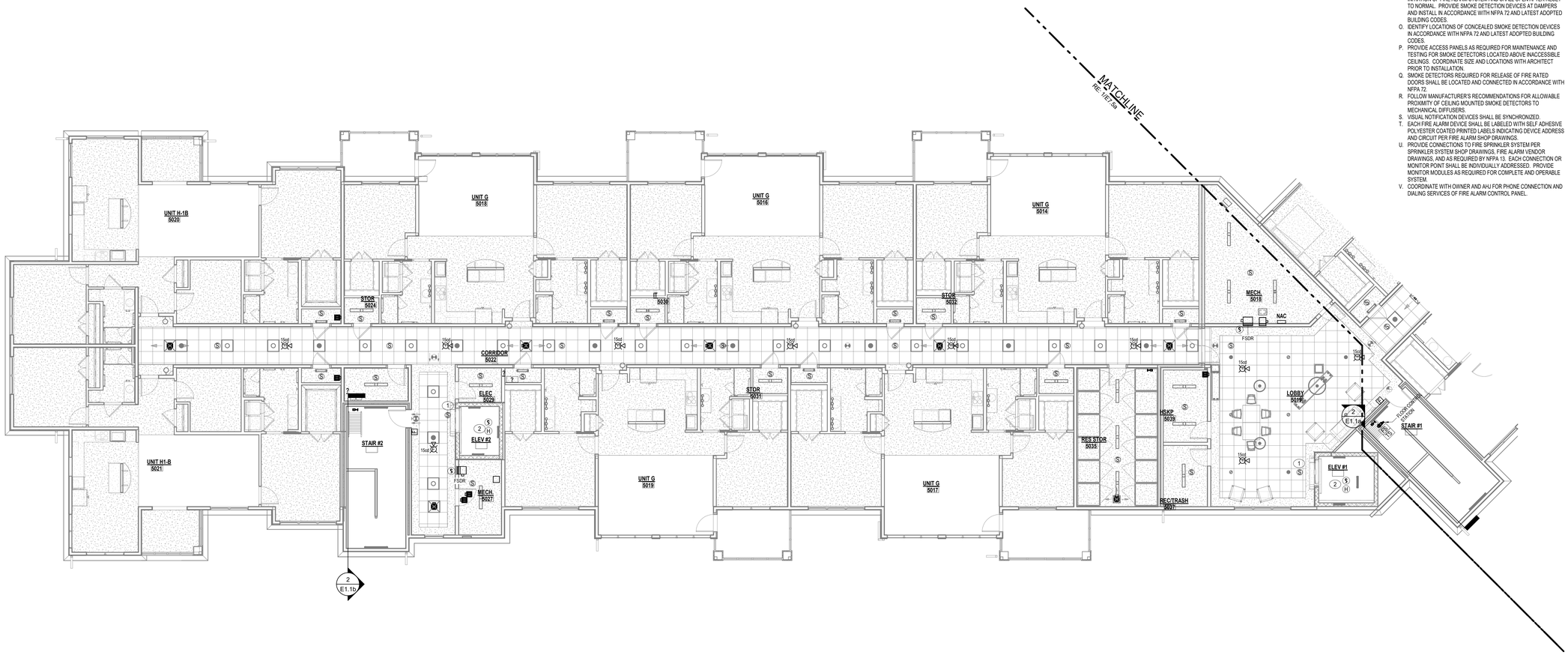
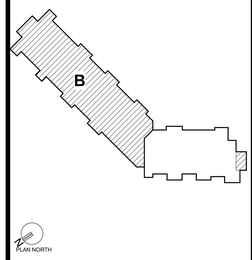


1 E7.5b FIFTH FLOOR PLAN - AREA B - FIRE ALARM
1/8" = 1'-0"

GENERAL NOTES

A. PROVIDE DUCT DETECTORS WITHIN 5'-0" OF ALL FIRE SMOKE DAMPERS PER IBC, MECHANICAL, 2017 EDITION, SECTION 607.3.3.2(1).
B. PROVIDE ALL REQUIRED CONNECTIONS, MATERIALS AND FIRE ALARM DEVICES TO INTERFACE TO ANY LOW VOLTAGE EQUIPMENT. LOW VOLTAGE EQUIPMENT INCLUDES, BUT IS NOT LIMITED TO, NURSE CALL SYSTEM, EMERGENCY CALL SYSTEM, WANDER MANAGEMENT SYSTEM, DOOR SECURITY SYSTEM, ETC. REFER TO LOW VOLTAGE SUBMITTALS AND COORDINATE WITH THE LOW VOLTAGE INSTALLERS FOR REQUIRED CONNECTIONS.
C. PROVIDE ALL REQUIRED CONNECTIONS, MATERIALS AND FIRE ALARM DEVICES TO INTERFACE TO HVAC EQUIPMENT. REFER TO THE HVAC DRAWINGS, SPECIFICATIONS AND SUBMITTALS FOR REQUIRED CONNECTIONS.
D. PROVIDE ALL REQUIRED CONNECTIONS, MATERIALS AND FIRE ALARM DEVICES TO INTERFACE WITH THE SPRINKLER SYSTEM SPRINKLER SYSTEM CONNECTIONS INCLUDE, BUT IS NOT LIMITED TO, FLOW SWITCHES, PRESSURE SWITCHES, SUPERVISORY SWITCHES, ETC. COORDINATE QUANTITY AND LOCATION OF SWITCHES WITH THE SPRINKLER DRAWINGS AND INSTALLER FOR REQUIRED CONNECTIONS. NOTE THAT SPRINKLER DRAWINGS SHALL BE PROVIDED BY THE SPRINKLER CONTRACTOR.
E. PROVIDE ALL REQUIRED CONNECTIONS, MATERIALS AND FIRE ALARM DEVICES TO INTERFACE TO THE TRASH CHUTE DOOR INTERLOCKS. REFER TO THE TRASH CHUTE SUBMITTAL AND COORDINATE WITH THE INSTALLER TO PROVIDE ALL REQUIRED CONNECTIONS.
F. SIGNAL VOLTAGE CABLING INSTALLED IN AIR RETURN PLENUMS SHALL BE RATED FOR PLENUM USE.
G. FIRE ALARM SYSTEM DEVICES SHOWN ARE FOR BIDDING PURPOSES ONLY. SYSTEM SHALL BE DESIGNED BY AN ENTITY MEETING THE REQUIREMENTS LISTED IN THE SPECIFICATIONS. COORDINATE WORK WITH FIRE ALARM VENDOR PRIOR TO SUBMITTING BIDS.
H. ONLY FIRE ALARM SHOP DRAWINGS APPROVED BY ENGINEER AND PERMITTING AGENCY SHALL BE USED FOR CONSTRUCTION.
I. FIRE ALARM SYSTEM WIRING SHALL BE IN RED COLORED CONDUIT. INITIATING DEVICE CIRCUITS AND NOTIFICATION APPLIANCE CIRCUITS SHALL BE IN SEPARATE RACEWAYS. FIRE ALARM SYSTEM JUNCTION BOXES, BACK BOXES, AND PULL BOXES SHALL BE PAINTED RED.
J. PROVIDE A DEDICATED POWER CIRCUIT TO EACH FIRE ALARM EQUIPMENT PANEL OR POWER SUPPLY.
K. FIRE ALARM OCP DEVICES SHALL HAVE NON-REMOVABLE LOCKABLE HANDLE PAINTED RED.
L. PROVIDE QUANTITY OF POWER SUPPLIES AND NAC PANELS BASED UPON FINAL SYSTEM DESIGN AND REQUIRED SPARE CAPACITY. LOCATE ADDITIONAL PANELS ADJACENT TO THOSE SHOWN ON PLANS. DO NOT INSTALL ADDITIONAL EQUIPMENT IN OTHER AREAS OF THE PROJECT WITHOUT WRITTEN CONSENT BY THE ENGINEER.
M. COORDINATE WITH ELEVATOR SUPPLIER FOR CONNECTION OF FIRE ALARM INPUTS FOR RECALL AND SHUTDOWN. PROGRAM FUNCTIONS IN ACCORDANCE WITH NFPA 72 AND LATEST ADOPTED BUILDING CODES.
N. CONNECT TO FIRE/SMOKE DAMPERS WHERE SHOWN ON MECHANICAL PLANS. FIRE ALARM VENDOR DRAWINGS, AND WHERE REQUIRED BY CODE. COORDINATE WITH EQUIPMENT SUPPLIER FOR REQUIRED 120V CONNECTIONS. DAMPERS SHALL CLOSE UPON INITIATION OF FIRE ALARM SYSTEM AND SHALL OPEN AFTER RESET TO NORMAL. PROVIDE SMOKE DETECTION DEVICES AT DAMPERS AND INSTALL IN ACCORDANCE WITH NFPA 72 AND LATEST ADOPTED BUILDING CODES.
O. IDENTIFY LOCATIONS OF CONCEALED SMOKE DETECTION DEVICES IN ACCORDANCE WITH NFPA 72 AND LATEST ADOPTED BUILDING CODES.
P. PROVIDE ACCESS PANELS AS REQUIRED FOR MAINTENANCE AND TESTING FOR SMOKE DETECTORS LOCATED ABOVE INACCESSIBLE CEILINGS. COORDINATE SIZE AND LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION.
Q. SMOKE DETECTORS REQUIRED FOR RELEASE OF FIRE RATED DOORS SHALL BE LOCATED AND CONNECTED IN ACCORDANCE WITH NFPA 72.
R. FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR ALLOWABLE PROXIMITY OF CEILING MOUNTED SMOKE DETECTORS TO MECHANICAL DIFFUSERS.
S. VISUAL NOTIFICATION DEVICES SHALL BE SYNCHRONIZED.
T. EACH FIRE ALARM DEVICE SHALL BE LABELED WITH SELF ADHESIVE POLYESTER COATED PRINTED LABELS INDICATING DEVICE ADDRESS AND CIRCUIT PER FIRE ALARM SHOP DRAWINGS.
U. PROVIDE CONNECTIONS TO FIRE SPRINKLER SYSTEM PER SPRINKLER SYSTEM SHOP DRAWINGS, FIRE ALARM VENDOR DRAWINGS, AND AS REQUIRED BY NFPA 13. EACH CONNECTION OR MONITOR POINT SHALL BE INDIVIDUALLY ADDRESSED. PROVIDE MONITOR MODULES AS REQUIRED FOR COMPLETE AND OPERABLE SYSTEM.
V. COORDINATE WITH OWNER AND AHJ FOR PHONE CONNECTION AND DIALING SERVICES OF FIRE ALARM CONTROL PANEL.

KEYPLAN



PLAN NOTES

1. SMOKE DETECTOR SHALL BE INTERLOCKED WITH ELEVATOR CONTROLLER AS REQUIRED FOR ELEVATOR RECALL PER NFPA 72 GUIDELINES. CONNECT TO ELEVATOR SMOKE CURTAIN FOR DEPLOYMENT UPON SMOKE DETECTOR ACTIVATION.

STATE OF MISSOURI
CHRISTOPHER WALKER WILLIAMS
NUMBER PE-2026000254
03-23-2026
PROFESSIONAL ENGINEER

BID SET

PROJECT TITLE

John Knox Village

MEADOWS BUILDING PHASE III

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NO.	REVISION DESCRIPTION	DATE

DRAWING TITLE

FIFTH FLOOR PLAN - AREA B - FIRE ALARM

DATE: 03/13/2026
COMM. NO. 25116.00
DRAWING E7.5b

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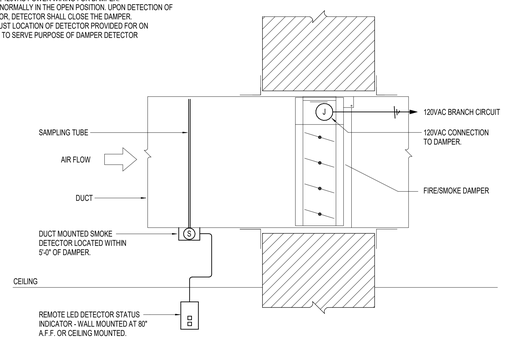
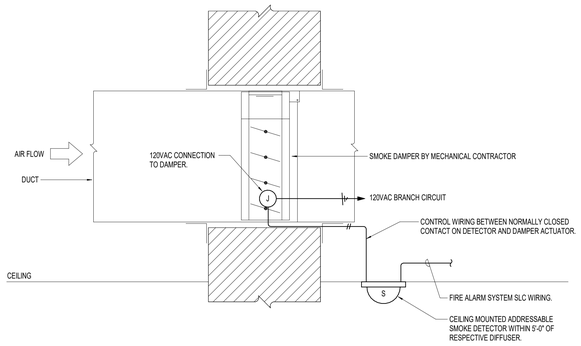
GENERAL NOTES:

1. REFER TO AND COORDINATE WITH MECHANICAL PLANS FOR DAMPER LOCATIONS.
2. E.C. SHALL PROVIDE ALL 120VAC POWER WIRING FOR DAMPER.
3. THE DAMPER SHALL BE NORMALLY IN THE OPEN POSITION. UPON DETECTION OF SMOKE BY THE DETECTOR, DETECTOR SHALL CLOSE THE DAMPER.
4. CONTRACTOR MAY ADJUST LOCATION OF DETECTOR PROVIDED FOR ON ELECTRICAL DRAWINGS TO SERVE PURPOSE OF DAMPER DETECTOR REQUIREMENT.



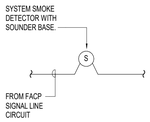
SMOKE DETECTOR INSTALLATION DETAIL AT FIRE/SMOKE DAMPER ACTUATED FROM DUCT DETECTOR (FSDR)



SMOKE DETECTOR INSTALLATION DETAIL AT FIRE/SMOKE DAMPER ACTUATED FROM SPACE DETECTOR (FSDR)

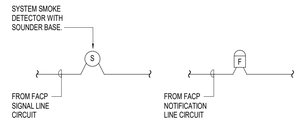
3 FSDR INSTALLATION DETAILS
E7.6 N.T.S.

NOTE:
SYSTEM DETECTOR SOUNDER BASE SHALL ACTIVATE UPON DETECTION OF SMOKE BY ROOM DETECTOR OR UPON DETECTION OF SMOKE BY BUILDING FIRE ALARM SYSTEM.



STANDARD UNIT

NOTE:
STROBE/CHIME SHALL ACTIVATE UPON DETECTION OF SMOKE BY ROOM DETECTOR OR UPON DETECTION OF SMOKE BY BUILDING FIRE ALARM SYSTEM.



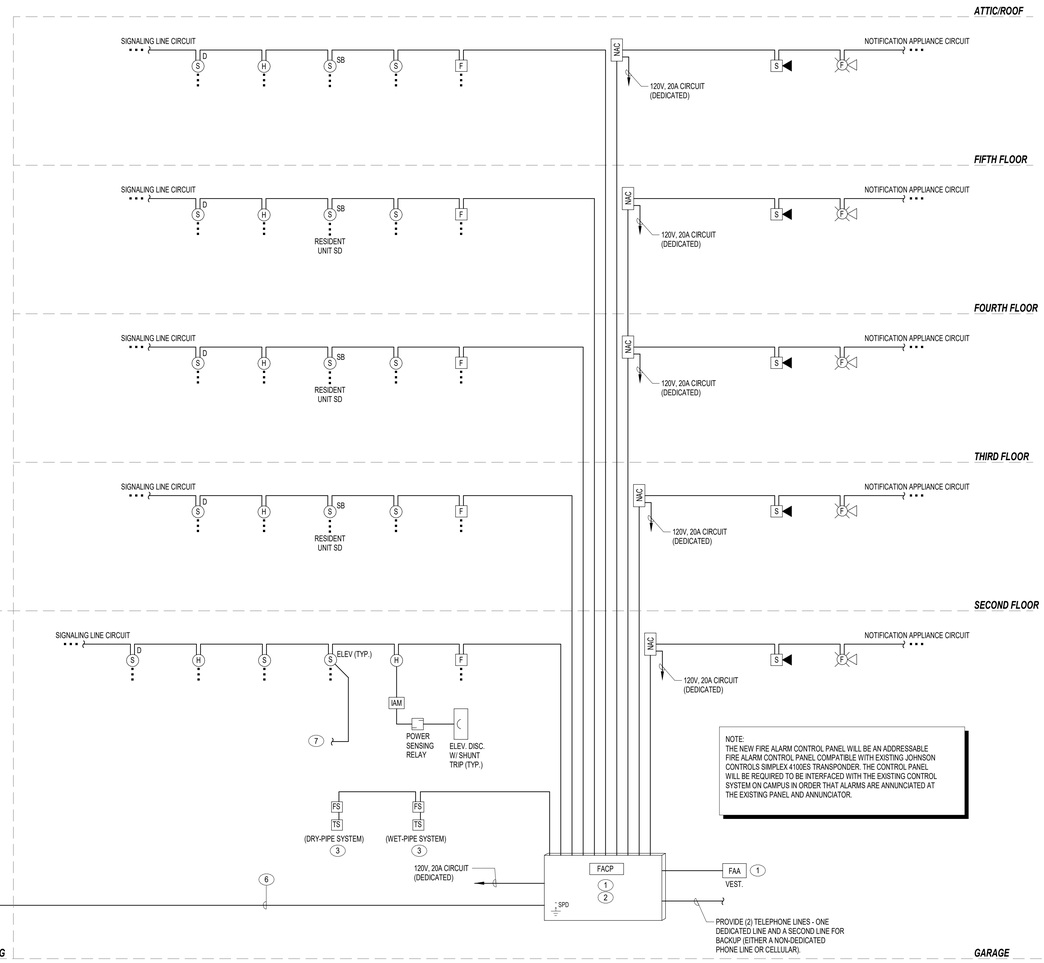
ACCESSIBLE UNIT

2 TYPICAL DWELLING UNIT FIRE ALARM DETAIL
E7.6 N.T.S.

FIRE ALARM SYSTEM SEQUENCE OF OPERATION

SYSTEM OUTPUTS

SYSTEM INPUTS		Control Unit Annunciation									Notification									Required Fire Safety Control												Supplementary								
		A ACTUATE COMMON ALARM SIGNAL INDICATOR	B ACTUATE AUDIBLE ALARM SIGNAL	C ACTUATE COMMON SUPERVISORY SIGNAL INDICATOR	D ACTUATE AUDIBLE SUPERVISORY SIGNAL	E ACTUATE COMMON TROUBLE SIGNAL INDICATOR	F ACTUATE AUDIBLE COMMON TROUBLE SIGNAL	G ACTIVATE INDIVIDUAL ADDRESS ALARM INDICATOR	H ALARM VERIFICATION	I ACTUATE CROSS ZONE PER ALARM	J ACTUATE COMPLETE BUILDING EVACUATION SIGNALS -	K ACTUATE COMPLETE BUILDING EVACUATION SIGNALS - DELAY	L ACTUATE ADDRESSABLE HORN AND STROBE - IMMEDIATELY	M ACTUATE ADDRESSABLE HORN AND STROBE - DELAY	N DISPLAY/PRINT CHANGE OF STATUS	O TRANSMIT FIRE ALARM SIGNAL TO SUPERVISING STATION	P TRANSMIT SUPERVISORY SIGNAL TO SUPERVISING STATION	Q TRANSMIT TROUBLE SIGNAL TO SUPERVISING STATION	R RELEASE MAGNETICALLY HELD SMOKE DOORS	S ACTUATE ELEVATOR HEAT VENT (90deg)	T RECALL ELEVATORS TO PRIMARY RECALL FLOOR	U RECALL ELEVATORS TO ALTERNATE RECALL FLOOR	V REMOTELY DISPLAY ACTIVE STATUS	W ACTUATE SMOKE EXHAUST SYSTEM	X HVAC-FAN SHUTDOWN	Y DAMPER - SHUTDOWN	Z	AA	BB	CC	DD	EE	FF	GG	
1	SMOKE DETECTORS	■		■				■			■			■	■	■		■	■																			1
2	SMOKE DETECTORS/SOUNDER BASE "DWELLING UNITS"	■	■					■			■			■	■	■		■	■																			2
3	MANUAL FIRE ALARM PULL STATIONS	■	■					■			■			■	■	■		■	■																			3
4	HEAT DETECTORS	■	■					■			■			■	■	■		■	■																			4
5	SMOKE DETECTORS - ELECTRICAL	■	■					■			■			■	■	■		■	■																			5
6	SMOKE DETECTORS - ELEVATOR LOBBY	■	■					■			■			■	■	■		■	■																			6
7	SMOKE DETECTORS - ELEVATOR LOBBY-MAIN FLOOR	■	■					■			■			■	■	■		■	■																			7
8	SMOKE DETECTORS - ELEVATOR MACHINE ROOM	■	■					■			■			■	■	■		■	■																			8
9	HEAT DETECTORS - ELEVATOR MACHINE ROOM	■	■					■			■			■	■	■		■	■																			9
10	SMOKE DETECTORS -ELEVATOR SHAFT	■	■					■			■			■	■	■		■	■																			10
11	HEAT DETECTORS - ELEVATOR SHAFT	■	■					■			■			■	■	■		■	■																			11
12	ELEVATOR POWER MONITOR			■	■			■			■			■	■	■		■	■																			12
13	SMOKE DETECTORS - DUCT DETECTOR	■	■					■			■			■	■	■		■	■																			13
14	SPRINKLER SYSTEM - FLOW							■			■			■	■	■		■	■																			14
15	SPRINKLER SYSTEM - TAMPER			■	■			■			■			■	■	■		■	■																			15
16	STANDPIPE SYSTEM - FLOW	■	■								■			■	■	■		■	■																			16
17	STANDPIPE SYSTEM - TROUBLE															■		■	■																			17
18	CARBON MONOXIDE DETECTORS	■	■					■								■		■	■																			18
19	STANDPIPE SYSTEM - FLOW	■	■								■			■	■	■		■	■																			19
20	STANDPIPE SYSTEM - TROUBLE															■		■	■																			20
21	FIRE ALARM SYSTEM - AC POWER FAILURE					■	■									■																						21
22	FIRE ALARM SYSTEM - LOW BATTERY					■	■									■																						22
23	FIRE ALARM - OPEN CIRCUIT					■	■									■																						23
24	FIRE ALARM - GROUND FAULT					■	■									■																						24
25	FIRE ALARM NOTIFICATION APPLIANCE - SHORT CIRCUIT					■	■									■																						25
		A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	BB	CC	DD	EE	FF	GG		



1 FIRE ALARM RISER DIAGRAM
E7.6 N.T.S.

FIRE ALARM SYSTEM RISER LEGEND:

S	FIRE ALARM SPEAKER WITH INTEGRAL VISUAL DEVICE.
F	FIRE ALARM HORN OR SPEAKER WITH INTEGRAL VISUAL DEVICE.
F	FIRE ALARM SPEAKER FOR AUDIBLE TONE. CEILING/PENDANT MOUNT.
F	FIRE ALARM SPEAKER/STROBE. CEILING/PENDANT MOUNT.
F	FIRE ALARM CHIME/ STROBE.
F	MANUAL FIRE ALARM DUAL-ACTION PULL STATION. MOUNT TOP OF PULL STATION @ 48" A.F.F.
F	WALL MOUNTED FIRE ALARM STROBE LIGHT. MOUNT @ 80" A.F.F. OR 6" BELOW CEILING. 'C' DENOTES CEILING MOUNTED
H	CEILING MOUNTED FIRE ALARM HEAT DETECTOR
S	CEILING MOUNTED FIRE ALARM SMOKE DETECTOR
ICP	FOUR (4) CIRCUIT FIRE ALARM INDICATING CIRCUIT POWER EXTENDER.
IM	SIGNALING LINE CIRCUIT ISOLATION MODULE.
AOM	ADDRESSABLE OUTPUT MODULE.
IAM	INDIVIDUAL ADDRESSABLE MONITOR MODULE.
TS	FIRE ALARM TAMPER SWITCH
FS	FIRE ALARM FLOW SWITCH
PIV	FIRE ALARM POST INDICATING VALVE
FACP	FIRE ALARM CONTROL PANEL
FAA	FIRE ALARM REMOTE ANNUNCIATOR
D	DOOR MAGNETS
R	RELAY MODULE
NAC	FIRE ALARM NOTIFICATION APPL. CKT PANEL

PLAN NOTES

1. REFER TO FIRE ALARM DRAWINGS E7.1 FOR FACP LOCATIONS.
2. PROVIDE PERMANENT LABEL AFFIXED TO PANEL INDICATING CIRCUIT # AND PANEL LOCATION.
3. COORDINATE WITH FIRE SUPPRESSION DRAWINGS/ SPRINKLER CONTRACTOR FOR ACTUAL NUMBER OF TAMPER AND FLOW SWITCHES REQUIRED TO BE MONITORED ON THE FIRE SUPPRESSION RISER.
4. EXISTING JOHNSON CONTROLS SIMPLEX FIRE ALARM CONTROL PANEL SHALL BE MODIFIED TO ACCEPT ANNUNCIATION FROM REMOTE SYSTEM PANEL.
5. PROVIDE NEW COMMUNICATIONS CARD IN EXISTING CONTROL PANEL FOR INTERFACE TO NEW FIRE ALARM SYSTEM.
6. NETWORK COMMUNICATION CABLING IN 1" CONDUIT, CABLE AS PER FIRE ALARM MANUFACTURER RECOMMENDATION. EXTEND TO EXISTING TOWER BUILDING FIRE ALARM NETWORK PANEL.
7. EXTEND TO ELEVATOR CONTROLLER FOR FIREMAN RECALL. TYPICAL FOR ALL ELEVATOR LOBBY SMOKE DETECTORS.

GENERAL NOTES

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CHRISTOPHER WILLIAM MILLER NUMBER PE-2026000254 03/13/2026 STATE OF MISSOURI PROFESSIONAL ENGINEER

BID SET

PROJECT TITLE

John Knox Village

MEADOWS BUILDING PHASE III

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NO.	REVISION DESCRIPTION	DATE

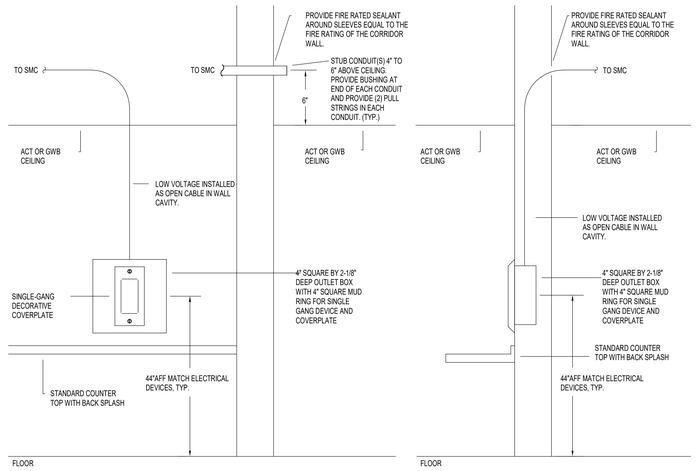
DRAWING TITLE

FIRE ALARM RISER DIAGRAM/DETAILS

DATE: 03/13/2026

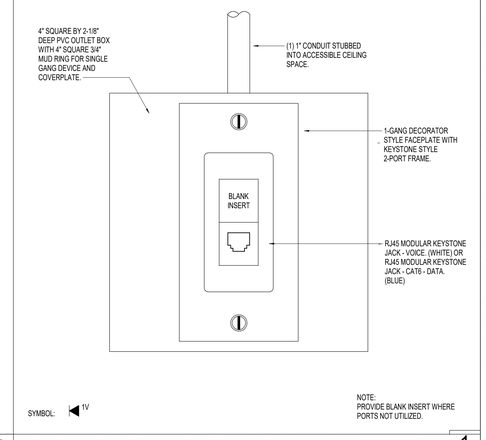
COMM. NO. 25116.00

DRAWING E7.6



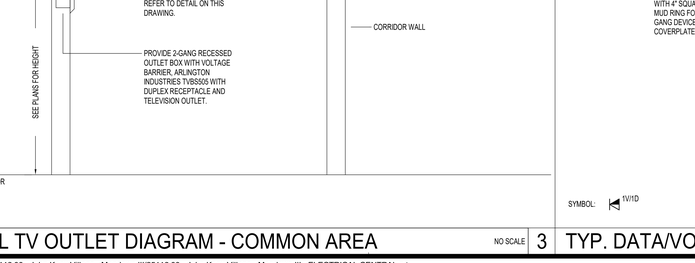
VOICE & DATA DIAGRAMS (COUNTER TOP HEIGHT RESIDENT UNIT)

NO SCALE | 5



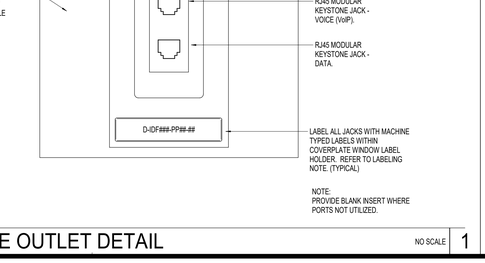
TYP. VOICE OR DATA OUTLET DETAIL

NO SCALE | 1



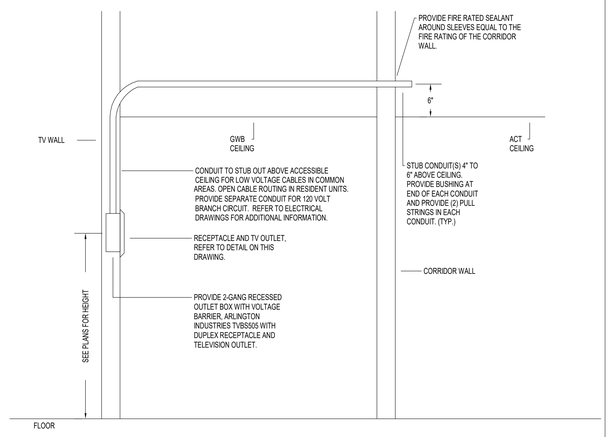
VOICE & DATA DIAGRAMS (STANDARD MOUNTING HEIGHT RESIDENT UNIT)

NO SCALE | 4



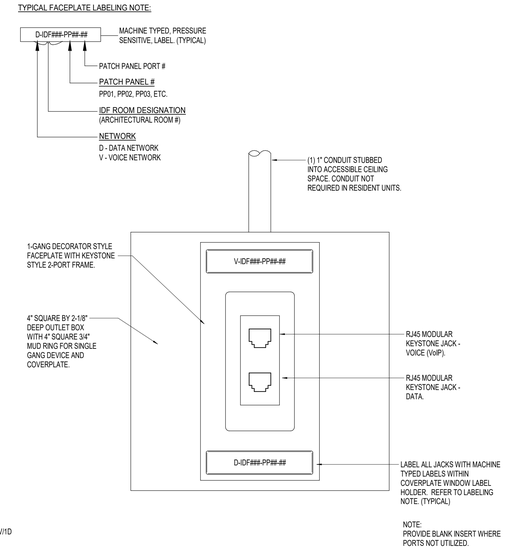
TYP. COMBINATION TV OUTLET DETAIL

NO SCALE | 2



TYPICAL TV OUTLET DIAGRAM - COMMON AREA

NO SCALE | 3



TYP. DATA/VOICE OUTLET DETAIL

NO SCALE | 1

LOW VOLTAGE SYSTEMS WORKSCOPE NARRATIVE

GENERAL

IT IS THE OWNER'S INTENT TO CONTRACT THROUGH THE BUILDING CONSTRUCTION CONTRACT WITH VENDORS TO SUPPLY THE LOW VOLTAGE SYSTEMS AS DESCRIBED BELOW. VENDORS SHALL PROVIDE AND INSTALL CABLING, COMPONENTS AND HARDWARE AS PART OF THE WORK SCOPE, AS INDICATED IN THE DRAWINGS AND IN THE RESPECTIVE SPECIFICATIONS. SOME PORTIONS OF THE LOW VOLTAGE SYSTEMS SHALL BE PROVIDED BY OWNER AND ARE NOTED HEREIN. ALL LOW VOLTAGE SYSTEMS CABLE ROUTING AND PLACEMENT SHALL BE COORDINATED WITH OTHER DISCIPLINES AND THE GENERAL CONTRACTOR PRIOR TO BEGINNING WORK.

CATV SYSTEM

THE FACILITY ISP PROVIDER, EVERFAST FIBER NETWORKS, WILL PROVIDE CATV SERVICE TO THE BUILDING. THE CONTRACTOR SHALL PROVIDE CATV OUTLETS IN AREAS INDICATED ON THE DRAWINGS. IN THE DWELLING UNITS, THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL OUTLETS, COAX AND HORIZONTAL CABLING AND TERMINATE CABLES ON SPLITTERS AND MODULES IN THE STRUCTURED MEDIA CENTER (SMC). CONTRACTOR WILL PROVIDE CROSSCONNECT IN THE STRUCTURED MEDIA CENTER. WHERE INDICATED IN COMMON AREAS CONTRACTOR SHALL PROVIDE BACK BOX, COAX AND CAT6A CABLE AND CONDUIT STUB-UP TO ACCESSIBLE CEILING AND SHALL TERMINATE CABLING ON PATCH PANELS AND SPLITTERS IN THE 2ND FLOOR TELECOM ROOM.

VOICE/DATA CABLING

THE FACILITY ISP PROVIDER, EVERFAST FIBER NETWORKS, WILL PROVIDE SERVICE TO THE BUILDING. THE CONTRACTOR SHALL PROVIDE AND INSTALL OUTLETS AND HORIZONTAL CABLING FOR ALL VOICE AND DATA DROPS. ALL CABLING SHALL BE TERMINATED, LABELED AND TESTED.

FAX, FIRE ALARM AND/OR ELEVATOR

PROVIDE AND INSTALL JACK IN A SINGLE OUTLET BOX. EXTEND CAT6A HORIZONTAL CABLES TO THE ELEVATOR CONTROLLER FOR EMERGENCY PHONE AND NETWORK INTERFACE. COORDINATE ALL WORK WITH ELEVATOR PROVIDER PRIOR TO BEGINNING.

CCTV

ALL ROUGH-IN BOXES, CORNER BRACKETS, CONDUITS AND CABLE TO BE PROVIDED BY CONTRACTOR. OWNER TO PROVIDE CAMERAS AND SYSTEM EQUIPMENT. CONTRACTOR TO COORDINATE MEETING WITH OWNERS ONCE FRAMING HAS BEEN COMPLETED TO REVIEW ALL CAMERA LOCATIONS PRIOR TO BEGINNING ANY WORK.

ACCESS CONTROL

THE CONTRACTOR (ACS) SHALL PROVIDE A DSX CONTROL SYSTEM. THE SYSTEM SHALL BE AN EXTENSION OF THE EXISTING DSX ACCESS CONTROL, ALL DEVICES TO MATCH EXISTING CAMPUS SYSTEM DEVICES. COORDINATE WITH ACS FOR CONDUIT AND CABLING REQUIRED FOR INTEGRATION OF CONTROLS WITH THE ELECTRONIC LOCKING DOOR HARDWARE TO RELEASE UPON CREDENTIAL ACTIVATION. INTEGRATION OF SYSTEM WITH CAMPUS SECURITY SHALL PROVIDE THE SYSTEM WITH RECEIVING SECURE SIGNALS, ONCE SECURITY HAS VIEWED AN ALERT, SECURITY CAN GRANT ENTRANCE THROUGH REMOTE OR MANUAL RELEASE OF DOORS. ALL SYSTEM ALARMS SHALL ALERT AT THE SECURITY DISPATCH.

ENTRY INTERCOM

AT LOCATIONS SHOWN ON DRAWINGS, PROVIDE ROUGH-IN CONDUIT, BACK BOX AND CABLING FOR NEW IP BASED ALGO INTERCOM STATION. THE LOCAL CAMERA SHALL ALERT WHEN INTERCOM ACTIVATED. SYSTEM SHALL BE CAPABLE OF INTEGRATING WITH THE EXISTING SYSTEMS AND ALERTS SENT TO THE SECURITY DISPATCH.

EMERGENCY CALL (STATUS SOLUTIONS SARA SYSTEM)

THE CONTRACTOR SHALL MEET WITH THE STATUS SOLUTIONS VENDOR FOR LOCATION OF THE 900mHz REPEATER DEVICES FOR WIRELESS CONTROL. ELECTRICAL CONTRACTOR SHALL PROVIDE 120V POWER AT REPEATER LOCATIONS. REPEATER LOCATIONS SHOWN WERE PROVIDED BY VENDOR. COORDINATE WORK WITH VENDOR PRIOR TO ROUGH-IN.

EMERGENCY RESPONDER RADIO COMMUNICATION SYSTEM (ERRCS)

PROVIDE IN BASE BID SITE TESTING PRE & POST CONSTRUCTION, AND THE SUBMITTAL OF SITE SURVEY TESTING REPORT TO LOCAL FIRE CODE OFFICIAL OR OTHER AHJ.

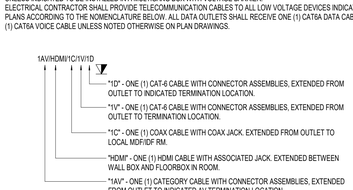
IF DETERMINED BY TESTING THAT A ERRCS SYSTEM IS REQUIRED, AN FCC LICENSED AND CERTIFIED ERRCS CONTRACTOR SHALL BE HIRED TO PROVIDE SYSTEM DESIGN AND INSTALLATION OUTSIDE OF THIS CONTRACT. ALL WORK SHALL BE COORDINATED WITH THE OWNER AND THE GENERAL CONTRACTOR PRIOR TO BEGINNING.

LV WORKSCOPE GENERAL NOTES

1. OUTER JACKETS OF CATEGORY HORIZONTAL CAT6A CABLES SHALL BE COLOR CODED FOR RESPECTIVE SYSTEMS:
   VoIP: YELLOW
   DATA: YELLOW
   EXTERIOR CCTV & EXTERIOR INTERCOMS - SHIELDED GRAY
   INTERIOR CCTV & INTERIOR INTERCOMS - YELLOW, IF SHIELDED CAT6A - GRAY
   WAP: YELLOW
   FAX/ELEVATOR, ANALOG VOICE: YELLOW
2.
3. THE LOW VOLTAGE WORK SCOPE CONTRACTORS (ELECTRICAL & LOW VOLTAGE) SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL OUTLET BOXES, RACEWAY, PATHWAYS AND SUPPORTS AS SPECIFICALLY INDICATED ON THESE DRAWINGS AND AS REQUIRED FOR COMPLETE INSTALLATION OF THE SYSTEMS.
4. CONTRACTOR SHALL PROPERLY SUPPORT LOW VOLTAGE CABLES BETWEEN OUTLET BOXES AND CABLE TRAY UTILIZING J-HOOK SUPPORTS AT A MAXIMUM OF 5FT. ON CENTER.
5. CONTRACTOR SHALL UTILIZE PLENUM RATED VELCRO STRAPS FOR CABLE BUNDLING. NO ZIP TIES ALLOWED. NO MORE THAN 24 CABLES SHALL BE BUNDLED TOGETHER. CABLING FOR DIFFERENT SYSTEMS SHALL BE BUNDLED SEPARATELY.
6. PROVIDE WALL TELEPHONE OUTLET 4'-0" AFF FOR THE ELEV CAB TELEPHONE. EXTEND (1) 3/4" EMPTY CONDUIT FROM THE OUTLET BOX TO ACCESSIBLE CEILING SPACE AND PROVIDE BUSHINGS AT EACH END. LOCATE OUTLET BOX AS DIRECTED BY THE ELEV EQUIP INSTALLER.
7. PARTS OF THE EXISTING BUILDING WILL BE OCCUPIED AND THE RENOVATION WORK MUST BE COMPLETED IN PHASES. COORDINATE WITH THE GENERAL CONTRACTOR FOR PROPER SEQUENCE OF THE WORK.
8. PROTECT ANY EXISTING CABLES AND COMPONENTS THAT MAY STILL BE IN USE DURING CONSTRUCTION, WHEREVER APPLICABLE. IF CABLING OR COMPONENTS ARE IN CONFLICT WITH NEW CONSTRUCTION OR IN NEED OF PROPER SUPPORT, NOTIFY GENERAL CONTRACTOR.

NOTES (LOW VOLTAGE SYMBOL LEGEND):

1. THESE ARE STANDARD SYMBOLS AND MAY NOT ALL APPEAR ON THE PROJECT DRAWINGS. HOWEVER, WHEREVER THIS SYMBOL APPEARS ON THE PROJECT DRAWINGS, THE ITEM SHALL BE FURNISHED AND INSTALLED.
2. UNLESS NOTED OTHERWISE, MOUNTING HEIGHTS ARE FROM FINISHED FLOOR TO CENTERLINE OF OUTLET. WHERE THE MOUNTING HEIGHT INDICATED ON PLAN IS DIFFERENT FROM THE LEGEND, THE PLAN TAKES PRECEDENT.
3. INSTALL RECEPTACLE AND VOICE/DATA OUTLET BOXES 8" APART (EDGE TO EDGE) WHERE SHOWN SIDE BY SIDE ON WALL, UNLESS INDICATED TO BE INSTALLED IN A MULTIGANG BOX WITH VOLTAGE BARRIER.
4. ELECTRICAL CONTRACTOR SHALL PROVIDE TELECOMMUNICATION CABLES TO ALL LOW VOLTAGE DEVICES INDICATED ON PLANS ACCORDING TO THE NOMENCLATURE BELOW. ALL DATA OUTLETS SHALL RECEIVE ONE (1) CAT6A DATA CABLE AND ONE (1) CAT6A VOICE CABLE UNLESS NOTED OTHERWISE ON PLAN DRAWINGS.



LOW VOLTAGE SYMBOL LEGEND

(NOTE 1)

MTG. HGT. (NOTE 2)	SYMBOL (NOTE 3)	DESCRIPTION
1'-6"	1V R	TELEPHONE OUTLET, WALL. SINGLE GANG OUTLET BOX WITH 3/4" CONDUIT STUB INTO ACCESSIBLE CEILING SPACE. PROVIDE WITH ONE (1) CAT 6A RJ45 JACK. EXTEND CAT 6A VOICE CABLE TO NEAREST IDF LOCATION ON RESPECTIVE FLOOR. "R" - RESIDENT UNITS, CABLING MAY BE INSTALLED AS OPEN ROUTING WITH PROPER SUPPORTS.
ABOVE COUNTER		"W" = WALL TYPE TELEPHONE OUTLET MOUNTED 44" AFF AND PROVIDED WITH RECESSED STAINLESS STEEL WALL PHONE MOUNT FACEPLATE. AT LOCATIONS WITH NO OBSTRUCTIONS. REFER TO ADA REQUIREMENTS WHERE OBSTRUCTION EXISTS. "EL" = ELEVATOR EMERGENCY TELEPHONE. WALL TYPE TELEPHONE OUTLET MOUNTED 46" AFF AND PROVIDED WITH RECESSED STAINLESS STEEL WALL PHONE MOUNT FACEPLATE. "#V" - INDICATES CABLING SCOPE TYPE & QTY. REFER TO LOW VOLTAGE GENERAL NOTES FOR ADDITIONAL INFORMATION. IF NO # INDICATED, PROVIDE (1) VOICE CABLE (1V) TO OUTLET LOCATION.
1'-6"	2D R	DATA OUTLET, WALL. SINGLE GANG OUTLET BOX WITH 1" CONDUIT STUB INTO ACCESSIBLE CEILING SPACE. PROVIDE WITH TWO (2) CAT 6A RJ45 JACK. EXTEND CAT 6A DATA CABLE TO NEAREST IDF LOCATION ON RESPECTIVE FLOOR.
ABOVE COUNTER		"#D" - INDICATES CABLING SCOPE TYPE & QTY. REFER TO LOW VOLTAGE GENERAL NOTES FOR ADDITIONAL INFORMATION. IF NO # INDICATED, PROVIDE AT MINIMUM (1) DATA CABLE (1D) TO OUTLET LOCATION. "R" = EXTEND DATA CABLES TO DWELLING UNIT COMM. ENCLOSURE AND TERMINATE. CABLING MAY BE INSTALLED AS OPEN ROUTING WITH PROPER SUPPORTS.
1'-6"	#V/#D R	COMBINATION VOICE/DATA OUTLET, WALL. TWO-GANG OUTLET BOX WITH SINGLE GANG MUG RING AND 1" CONDUIT STUB INTO ACCESSIBLE CEILING SPACE. PROVIDE WITH ONE (1) CAT 6A RJ45 DATA JACK AND ONE (1) CAT 6A RJ45 VOICE JACK. EXTEND CABLES TO NEAREST IDF LOCATION ON RESPECTIVE FLOOR.
ABOVE COUNTER		"R" = EXTEND DATA AND VOICE CABLES TO DWELLING UNIT COMM. ENCLOSURE AND TERMINATE. CABLES MAY BE INSTALLED AS OPEN ROUTING WITH PROPER SUPPORTS. "#V/#D" - INDICATES CABLING SCOPE TYPE & QTY. REFER TO LOW VOLTAGE GENERAL NOTES FOR ADDITIONAL INFORMATION. IF NO # INDICATED, PROVIDE (1) DATA (1D) AND (1) VOICE (1V) CABLES TO OUTLET LOCATION.
3'-10"	ARA	AREA OF RESCUE ASSISTANCE BASE STATION/CONTROL PANEL. SINGLE GANG OUTLET BOX WITH 3/4" CONDUIT STUB INTO ACCESSIBLE CEILING SPACE. PROVIDE WITH ONE (1) CAT 6 RJ45 JACK. EXTEND CAT 6 VOICE CABLE TO NEAREST IDF LOCATION ON RESPECTIVE FLOOR. SEE BELOW FOR CALL STATION.
		"#V" - INDICATES CABLING SCOPE TYPE & QTY. REFER TO LOW VOLTAGE DETAILS, WHERE APPLICABLE. FOR ADDITIONAL INFORMATION. IF NO # INDICATED, PROVIDE (1) VOICE CABLE (1V) TO OUTLET LOCATION.
3'-10"	ARC	AREA OF RESCUE CALL STATION FOR TWO-WAY COMMUNICATIONS COURTESY PHONE - ALGO INTERCOM.
FLOOR	1V/1D	COMBINATION PHONE & DATA OUTLET, FLOOR. REFER TO FLOOR PLANS FOR ADDITIONAL INFORMATION. "#V/#D" - INDICATES CABLING SCOPE TYPE & QTY. REFER TO LOW VOLTAGE GENERAL NOTES FOR ADDITIONAL INFORMATION. IF NO # INDICATED, PROVIDE (1) DATA (1D) AND (1) VOICE CABLE TO OUTLET LOCATION. SAME CABLING AS SHOWN ABOVE FOR DATA/VOICE WALL OUTLET.
		"#V" - INDICATES CABLING SCOPE TYPE & QTY. REFER TO LOW VOLTAGE GENERAL NOTES FOR ADDITIONAL INFORMATION. IF NO # INDICATED, PROVIDE (1) VOICE CABLE (1V) TO OUTLET LOCATION. SAME CABLING AS SHOWN ABOVE FOR VOICE WALL OUTLET.
		"#D" - INDICATES CABLING SCOPE TYPE & QTY. REFER TO LOW VOLTAGE GENERAL NOTES FOR ADDITIONAL INFORMATION. IF NO # INDICATED, PROVIDE (1) DATA CABLE (1D) TO OUTLET LOCATION. SAME CABLING AS SHOWN ABOVE FOR DATA WALL OUTLET.
1'-6" UON	TV	WALL MOUNTED COMBINATION RECEPTACLE AND TV OUTLET WITH VOLTAGE BARRIER. PROVIDE WITH (1) 120V DUPLEX RECEPTACLE, (1) TYPE F COAX CONNECTOR WITH (1) RG6 COAX CABLE AND ONE (1) CAT 6A CABLED EXTENDED TO NEAREST IDF. USE RG11 COAX CABLE FOR RUNS GREATER THAN 200FT.
		"R" = EXTEND RG6 COAX AND ONE CAT6A CABLE TO DWELLING UNIT COMM. ENCLOSURE AND TERMINATE. CABLES MAY BE INSTALLED AS OPEN ROUTING WITH PROPER SUPPORTS.
		"+##" = REFERS TO DIFFERENT ABOVE FLOOR MOUNTING HEIGHT. CONTRACTOR SHALL VERIFY EXACT MOUNTING LOCATION WITH ARCHITECT TO AVOID CONFLICT WITH WALL TV MOUNTS AND/OR CASEWORK.
CEILING	WAP 1D	LAN SYSTEM, WIRELESS ACCESS POINT (WAP): FIELD MOUNTABLE CAT6A RJ45 PLUG SHALL BE UTILIZED FOR CONNECTION TO DEVICE. EXTEND TWO (2) CAT 6A HORIZONTAL CABLE TO NEAREST IDF LOCATION ON RESPECTIVE FLOOR. WAP DEVICE SHALL BE PROVIDED BY OWNER AND CONNECTED/INSTALLED BY CONTRACTOR.
		"#D" - INDICATES CABLING SCOPE TYPE & QTY. REFER TO LOW VOLTAGE GENERAL NOTES FOR ADDITIONAL INFORMATION. IF NO # INDICATED, PROVIDE (1) DATA CABLE (1D) TO OUTLET LOCATION.
CEILING	C 1D EXT.	FIXED SECURITY CAMERA - INTERIOR MOUNT. INSTALL FLUSH MOUNT SINGLE GANG OUTLET BOX AND 1" CONDUIT, U.O.N., TO ACCESSIBLE CEILING SPACE. PROVIDE CAT 6A CABLING AND EXTEND TO PATCH PANEL AND TERMINATE IN TELECOM ROOM. TYP. COORDINATE EXACT MOUNTING REQUIREMENTS. CAMERAS SHALL BE PROVIDED, CONNECTED AND INSTALLED BY OWNER, COORDINATE ALL LOCATIONS.
WALL	C 1D EXT.	"#D" - INDICATES CABLING SCOPE TYPE & QTY. REFER TO LOW VOLTAGE GENERAL NOTES FOR ADDITIONAL INFORMATION. IF NO # INDICATED, PROVIDE (1) CAT6A CABLE (1D) TO OUTLET LOCATION. "360" - INDICATES 360 DEGREE CAMERA TO BE CEILING MOUNTED. "EXT" - INDICATES EXTERIOR MOUNTED CAMERA. "AV" - FIXED AUDIO VISUAL SYSTEM CAMERA. REFER TO DETAILS FOR MORE INFORMATION.
		"#D" - INDICATES CABLING SCOPE TYPE & QTY. REFER TO LOW VOLTAGE GENERAL NOTES FOR ADDITIONAL INFORMATION. IF NO # INDICATED, PROVIDE (1) CAT6A CABLE (1D) TO OUTLET LOCATION. "180" - INDICATES 180 DEGREE CAMERA TO BE WALL MOUNTED. "EXT" - INDICATES EXTERIOR MOUNTED CAMERA. "AV" - FIXED AUDIO VISUAL SYSTEM CAMERA. REFER TO DETAILS FOR MORE INFORMATION.
4'-0"	I	INTERCOM SYSTEM, ALGO 8028. PROVIDE (1) NETWORK DROP. WALL MOUNTED.
	A	DESIGNATED DOOR TO BE PROVIDED WITH ACCESS CONTROL. REFER TO DOOR ELEVATIONS FOR ADDITIONAL INFORMATION. CONTROLS MAY CONSIST OF CARD READERS, DOOR POSITION SWITCH, POWER SUPPLY AND PIR MOTION REQUEST TO EXIT (RTE) SENSOR IF NOT INCLUDED IN DOOR HARDWARE.
4'-0"	CR M	ACCESS CONTROL SYSTEM CARD READER. INSTALL WITH FLUSH MOUNT SINGLE GANG OUTLET BOX AND 1/2" C TO ACCESSIBLE CEILING SPACE. "M" - INDICATES MULLION MOUNTED CARD READER.
	DC	DOOR "AJAR" SWITCH CONTACT. INSTALL 3/4" C IN DOOR FRAME TO ACCESSIBLE CEILING SPACE. COORDINATE EXACT REQUIREMENTS WITH OWNER'S ACCESS CONTROL VENDOR.
6'-0"	D	MAGNETIC DOOR HOLDER, WALL. "F" = FLUSH MOUNTED. REFER TO ELECTRICAL DRAWINGS
	D	MAGNETIC DOOR HOLDER, FLOOR. REFER TO ELECTRICAL DRAWINGS.
6'-8"	DB	HONEYWELL HOME SERIES 3 WIRELESS DOORBELL WITH STROBE & AUDIO ALERT NOTIFIER, WALL MOUNTED.
3'-8"	DB	PUSHBUTTON, WALL MOUNTED. HONEYWELL HOME SERIES 3 WIRELESS DOORBELL. BATTERY POWERED. COORDINATE LOCATION WITH OTHER DISCIPLINES.
3'-10"	E	EMERGENCY CALL PULL STATION , WIRELESS - WALL STATION SHALL BE WIRELESS SARA SYSTEM SERIES WITH ADHESIVE BACKING AND PULL CORD. PROVIDED BY OWNER'S SARA SYSTEM REPRESENTATIVE UNDER SEPARATE CONTRACT. (NIC SHOWN FOR REFERENCE ONLY)
	HPR	EMERGENCY CALL HIGH POWER REPEATER, OR ACCESS POINT, FOR STATUS SOLUTIONS SARA SYSTEM WIRELESS DEVICES. PROVIDED BY OWNER'S VENDOR UNDER SEPARATE CONTRACT (NIC). CONTRACTOR SHALL COORDINATE FINAL LOCATIONS WITH OWNER'S VENDOR PRIOR TO BEGINNING ROUGH-IN. ELECTRICAL CONTRACTOR SHALL PROVIDE POWER (120 CKT) TO STATUS SOLUTIONS DEVICES.

GENERAL NOTES

NOTES (LOW VOLTAGE SYMBOL LEGEND):

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3. INSTALL RECEPTACLE AND VOICE/DATA OUTLET BOXES 8" APART (EDGE TO EDGE) WHERE SHOWN SIDE BY SIDE ON WALL, UNLESS INDICATED TO BE INSTALLED IN A MULTIGANG BOX WITH VOLTAGE BARRIER.
4. CONTRACTOR SHALL PROVIDE TELECOMMUNICATION CABLES TO ALL LOW VOLTAGE DEVICES INDICATED ON PLANS ACCORDING TO THE NOMENCLATURE AS INDICATED IN THE NOTES AND LEGEND. ALL CABLING SHALL BE INSTALLED PER NEC ARTICLE 800 AND BICSI STANDARDS.

SHEET LIST - LOW VOLTAGE

SHEET NUMBER	SHEET NAME
LV0.0	LOW VOLTAGE SYMBOL LEGEND
LV0.1	LOW VOLTAGE DETAILS
LV0.2	LOW VOLTAGE TELECOM RISER DETAILS
LV0.3	LOW VOLTAGE DETAILS & RISERS
LV1.1a	GARAGE FLOOR PLAN - AREA A - LOW VOLTAGE
LV1.1b	GARAGE FLOOR PLAN - AREA B - LOW VOLTAGE
LV1.2a	SECOND FLOOR PLAN - AREA A - LOW VOLTAGE
LV1.2b	SECOND FLOOR PLAN - AREA B - LOW VOLTAGE
LV1.3a	THIRD, FOURTH, FIFTH TYPICAL FLOOR PLAN - AREA A - LOW VOLTAGE
LV1.3b	THIRD, FOURTH, FIFTH TYPICAL FLOOR PLAN - AREA B - LOW VOLTAGE
LV2.1	ENLARGED UNIT PLANS - LOW VOLTAGE
LV2.2	ENLARGED UNIT PLANS - LOW VOLTAGE

STATE OF MISSOURI
CHRISTOPHER MAURICE MILLER
NUMBER PE-2026000254
2/27/2026
PROFESSIONAL ENGINEER

BID SET

PROJECT TITLE

John Knox Village

MEADOWS BUILDING PHASE III

SFCS Architecture Engineering Planning Interiors
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540.344.6664 ▪ Fax 540.343.6925
www.sfcs.com

DESIGNER	: DAS	DRAWN	: JDM
ARCHITECT	: DAS	CHECKED	: CIW
ENGINEER	: NAD	APPROVED	: CIW

NO.	REVISION DESCRIPTION	DATE

DRAWING TITLE

LOW VOLTAGE SYMBOL LEGEND

DATE: 03/13/2026

COMM. NO. 25116.00

DRAWING LV0.0

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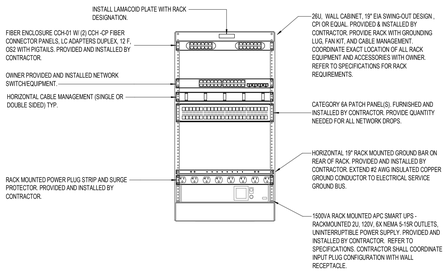
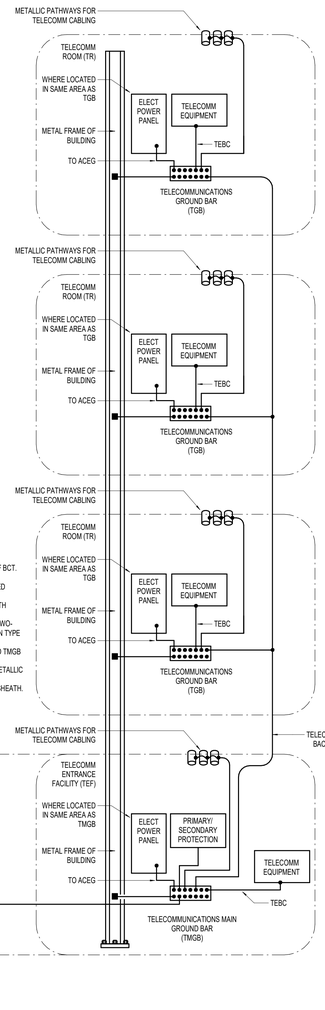
GENERAL ELEVATION NOTES:

A. RACKS AND RACK MOUNTED EQUIPMENT PROVIDED &INSTALLED BY CONTRACTOR UNLESS NOTED OTHERWISE.
B. ALL PATCH CABLES WITHIN DATA SYSTEM RACK & CABLING TO DATA DEVICES SHALL BE PROVIDED AND INSTALLED BY CONTRACTOR.
C. PROVIDE PATCH CABLES FOR PATCH PANEL EQUIPMENT FOR 100% OF THE TOTAL NUMBER OF JACKS/CABLES INDICATED ON PLANS, PLUS APPROX. 10% SPARE.
D. PATCH CABLE LENGTHS FOR EACH RACK SHALL BE 7-FOOT.
E. CONTRACTOR SHALL PROVIDE VERTICAL & HORIZONTAL WIRE MANAGEMENT ON BOTH SIDES OF RACK.



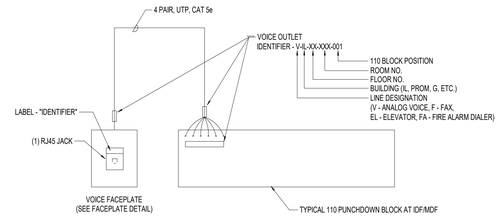
8 RACK ELEVATION - WALL RACK
LV0.1 N.T.S.



SIZING BONDING CONDUCTOR	
LENGTH (FT)	SIZE (AWG)
< 13	6
14-20	4
21-26	3
27-33	2
34-41	1
42-52	1/0
53-66	2/0
67-84	3/0
85-105	4/0
106-125	250 KCMIL
126-150	300 KCMIL
151-175	350 KCMIL
176-250	500 KCMIL
251-300	600 KCMIL
> 301	750 KCMIL

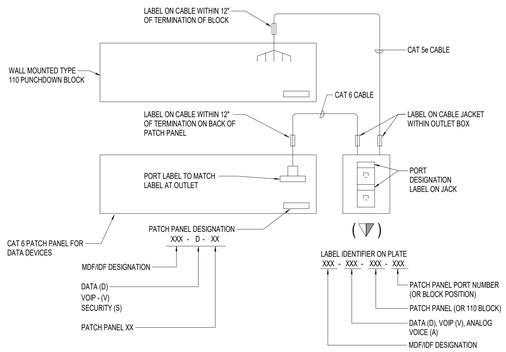
NOTES:
1. ALL WORK TO BE DONE IN ACCORDANCE WITH ANSI/TIA STD-607-B
2. LOCATE TMGB IN TELECOMM ENTRANCE FACILITY TO MINIMIZE LENGTH OF BCT. MAXIMUM LENGTH IS 30FT. SHALL BE AT MINIMUM SAME SIZE AS TBB.
3. ALL GROUNDING AND BONDING CONDUCTORS SHALL BE GREEN INSULATED COPPER CONDUCTORS AND LISTED FOR INTENDED APPLICATION.
4. LABEL ALL GROUNDING AND BONDING CONDUCTORS IN ACCORDANCE WITH ANSI/TIA/EIA 606 REQUIREMENTS.
5. ALL CONNECTIONS TO THE TMGB SHALL BE EXOTHERMIC WELD, LISTED TWO-HOLE HIGH COMPRESSION LUGS, OR OTHER IRREVERSIBLE COMPRESSION TYPE CONNECTION.
6. ALL METALLIC RACEWAYS FOR TELECOMM CABLING SHALL BE BONDED TO TMGB IF LOCATED IN SAME ROOM OR AREA.
7. WHERE THE OSP OR BACKBONE CABLING INCORPORATES A SHIELD OR METALLIC MEMBER, IT SHALL BE BONDED TO THE TMGB WHERE THE CABLES ARE TERMINATED OR WHERE THE PAIRS ARE BROKEN OUT FROM THE CABLE SHEATH.

7 TYP. TELECOMM GROUNDING RISER
LV0.1 N.T.S.



NOTE: CONFIRM LABELING WITH OWNERS PRIOR TO WORK.

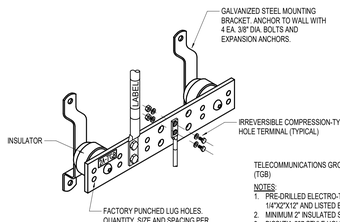
ANALOG RESIDENT PHONES, FAX, FA, ELEV., LABELING SCHEME



NOTE: CONFIRM LABELING WITH OWNERS PRIOR TO WORK.

PATCH PANEL - DATA, VOIP VOICE, SECURITY LABELING SCHEME

6 LABELING SCHEME
LV0.1 N.T.S.



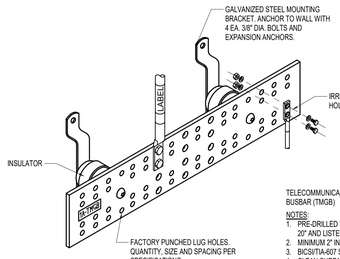
TELECOMMUNICATIONS GROUNDING BUSBAR (TGB)

NOTES:
1. PRE-DRILLED ELECTRO-TIN PLATED COPPER GROUND BAR 1/4"X2"X12" AND LISTED BY AN NTRL
2. MINIMUM 2" INSULATED STANDOFFS
3. BICSI/TIA-607 STYLE HOLE PATTERN
4. CLEAN SURFACE AND APPLY ANTI-OXIDANT PRIOR TO FASTENING OF CONDUCTORS.
5. PROVIDE IDENTIFICATION FOR GROUND BAR AND GROUNDING CONDUCTORS IN ACCORDANCE WITH TIA/EIA-606-B.
6. PART NO. 40158-012 ASSEMBLY W/LUG KIT VENDOR: CHATSWORTH PRODUCTS, INC. ACCESSORIES: P/N 40168-101 ANTIOXIDANT, COPPER, 0.5OZ (OR EQUAL)
7. ALL CABLETRAY, RACKS, CABINETS, PRIMARY AND SECONDARY LIGHTNING PROTECTION, SURGE PROTECTION AND OTHER REQUIRED DEVICES, TO BE BONDED TO TGB AND/OR TMGB BY SEPARATE #6 AWG BONDING CONDUCTORS.

DEFINITIONS:

TGB" STANDS FOR TELECOMMUNICATIONS GROUNDING BUS BAR. IT SHALL BE BONDED TO BUILDING STEEL UTILIZING #6 AWG GROUNDING CONDUCTOR. IF BUILDING STEEL IS NOT AVAILABLE GROUNDING BUS BAR SHALL BE BONDED TO NEAREST ELECTRIC PANEL GROUND BAR UTILIZING #6 AWG GROUNDING CONDUCTOR.

5 GROUND BAR - TGB
LV0.1 N.T.S.



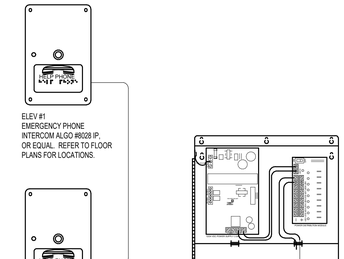
TELECOMMUNICATIONS MAIN GROUNDING BUSBAR (TMGB)

NOTES:
1. PRE-DRILLED ELECTRO-TIN PLATED COPPER GROUND BAR 1/4" X 4" X 20" AND LISTED BY AN NTRL
2. MINIMUM 2" INSULATED STANDOFFS.
3. BICSITIA-607 STYLE HOLE PATTERN
4. CLEAN SURFACE AND APPLY ANTI-OXIDANT PRIOR TO FASTENING OF CONDUCTORS.
5. PROVIDE IDENTIFICATION FOR GROUND BAR AND GROUNDING CONDUCTORS IN ACCORDANCE WITH TIA/EIA-606-B.
6. PART NO. 40158-020 ASSEMBLY W/LUG KIT VENDOR: CHATSWORTH PRODUCTS, INC. ACCESSORIES: P/N 40168-101 ANTIOXIDANT, COPPER, 0.5OZ (OR EQUAL)
7. ALL CABLETRAY, RACKS, CABINETS, PRIMARY AND SECONDARY LIGHTNING PROTECTION, SURGE PROTECTION AND OTHER REQUIRED DEVICES. TO BE BONDED TO TGB AND/OR TMGB BY SEPARATE #6 AWG BONDING CONDUCTORS.
8. BUS BARS OVER 20" IN LENGTH REQUIRE AT LEAST ONE ADDITIONAL 2-3/4" INSULATOR (NEWTON P.N. 30611-4) SUPPORT OR AS SPECIFIED. BUS BARS 6" WIDE OR MORE REQUIRE INSULATORS AT ALL FOUR CORNERS OR AS DETAILED.

DEFINITIONS:

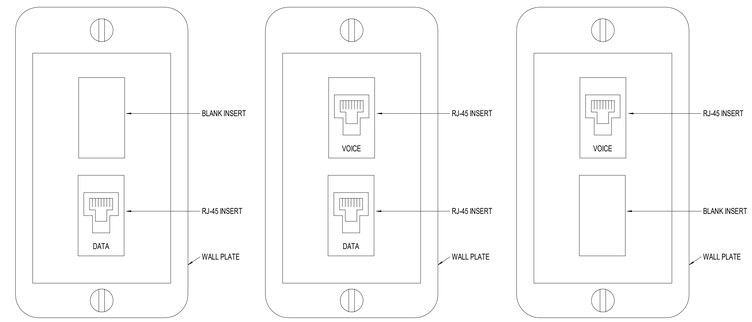
"TMGB" STANDS FOR TELECOMMUNICATIONS MAIN GROUNDING BUSBAR. THERE IS TO BE ONE IN MAIN COMMUNICATIONS ROOM. THE TMGB IS TO BE CONNECTED DIRECTLY TO THE BUILDING STEEL AND MUST ALSO BE DIRECTLY BONDED TO THE MAIN BUILDING ELECTRICAL SERVICE GROUND.

4 GROUND BAR - TMGB
LV0.1 N.T.S.



NOTES:
1. THE AREA OF RESCUE ASSISTANCE EMERGENCY COMMUNICATIONS SYSTEM. COORDINATE WITH SERVICE PROVIDER AND OWNER BEFORE BEGINNING ANY WORK. THE REMOTELY LOCATED AREA OF REFUGE CALL BOX STATION SHALL ALERT AT A 24/7 CONSTANTLY ATTENDED SECURITY LOCATION APPROVED BY OWNER. THE SYSTEM SHALL HAVE A TIMED AUTOMATIC COMMUNICATIONS CAPABILITY TO CONNECT WITH A CONSTANTLY ATTENDED MONITORING LOCATION ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION WHERE RESPONSIBLE PERSONNEL CAN COMMUNICATE DIRECTLY WITH CALLER AND INITIATE THE APPROPRIATE RESPONSE AND SHALL PROVIDE A DIAL-OUT CAPABILITY TO A MONITORING LOCATION SUCH AS 911. IF NO ONE IS AVAILABLE: COORDINATE LOCATION OF CALL BOXES WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN.
2. TWO-WAY COMMUNICATION SYSTEM SHALL BE LOCATED AT ENTRANCES AND AT EACH ELEVATOR LOBBY ALONG WITH AN ASSOCIATED INSTRUCTIONAL SIGNAGE.

3 AREA OF RESCUE TWO-WAY COMMUNICATION
LV0.1 N.T.S.



TYPICAL DATA WALL PLATE

SYMBOL = = 1 DATA

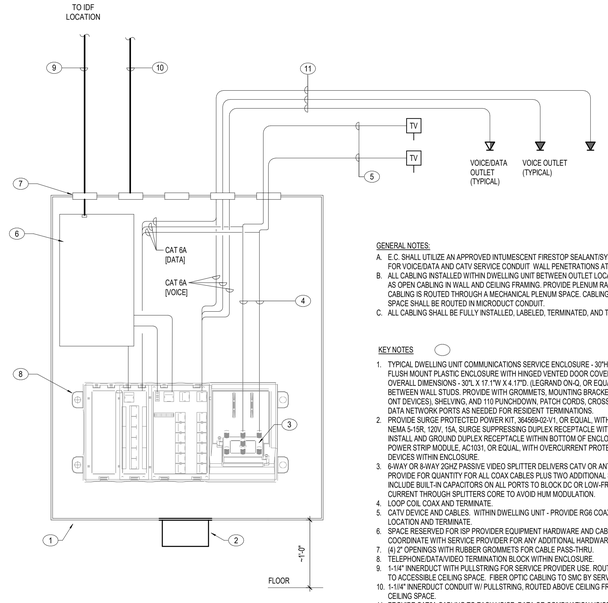
TYPICAL VOICE/ DATA WALL PLATE

SYMBOL = = 1 VOICE, 1 DATA

TYPICAL VOICE WALL PLATE

SYMBOL = = 1 VOICE

2 TYPICAL WALL PLATE CONFIGURATIONS
LV0.1 N.T.S.



GENERAL NOTES:
A. E.C. SHALL UTILIZE AN APPROVED INTUMESCENT FIRESTOP SEALANT/SYSTEM ("HILTI #WL 2098" OR : EQUAL) FOR VOICE/DATA AND CATV SERVICE CONDUIT WALL PENETRATIONS AT DWELLING UNIT DEMISING WALLS.
B. ALL CABLING INSTALLED WITHIN DWELLING UNIT BETWEEN OUTLET LOCATION AND SMC SHALL BE INSTALLED AS OPEN CABLING IN WALL AND CEILING FRAMING. PROVIDE PLENUM RATED CABLING IN ALL AREAS WHERE CABLING IS ROUTED THROUGH A MECHANICAL PLENUM SPACE. CABLING FROM UNIT TO ACCESSIBLE CEILING SPACE SHALL BE ROUTED IN MICRODUCT CONDUIT.
C. ALL CABLING SHALL BE FULLY INSTALLED, LABELED, TERMINATED, AND TESTED.

KEY NOTES

1. TYPICAL DWELLING UNIT COMMUNICATIONS SERVICE ENCLOSURE - 30"H STRUCTURED MEDIA CENTER. FLUSH MOUNT PLASTIC ENCLOSURE WITH HINGED VENTED DOOR COVER AND OPTIONAL LOCK SET. OVERALL DIMENSIONS - 30"L X 17.1"W X 4.17"D. (LEGRAND ON-Q, OR EQUAL) CAPABLE OF FITTING EASILY BETWEEN WALL STUDS. PROVIDE WITH GROMMETS, MOUNTING BRACKETS (FOR MODEMS, ROUTER OR ONT DEVICES), SHELVING, AND 110 PUNCHDOWN, PATCH CORDS, CROSSCONNECTS, TV SPLITTERS AND DATA NETWORK PORTS AS NEEDED FOR RESIDENT TERMINATIONS.
2. PROVIDE SURGE PROTECTED POWER KIT, 364569-02-V1. OR EQUAL, WITH METAL ELECTRICAL BOX, WHITE NEMA 5-15R, 120V, 15A, SURGE SUPPRESSING DUPLEX RECEPTACLE WITH WHITE FACEPLATE. E.C. SHALL INSTALL AND GROUND DUPLEX RECEPTACLE WITHIN BOTTOM OF ENCLOSURE. PROVIDE 120V, 15A, POWER STRIP MODULE. AC1031, OR EQUAL, WITH OVERCURRENT PROTECTION AND SIX (6) OUTLETS FOR DEVICES WITHIN ENCLOSURE
3. 6-WAY OR 8-WAY 2GHZ PASSIVE VIDEO SPLITTER DELIVERS CATV OR ANTENNA SIGNAL TO TV OUTLETS. PROVIDE FOR QUANTITY FOR ALL COAX CABLES PLUS TWO ADDITIONAL SPARES. SPLITTER SHALL INCLUDE BUILT-IN CAPACITORS ON ALL PORTS TO BLOCK DC OR LOW-FREQUENCY AC AND PREVENT CURRENT THROUGH SPLITTERS CORE TO AVOID HUM MODULATION.
4. LOOP COIL COAX AND TERMINATE.
5. CATV DEVICE AND CABLES. WITHIN DWELLING UNIT - PROVIDE RG6 COAX. AND CATEA TO EACH LOCATION AND TERMINATE.
6. SPACE RESERVED FOR ISP PROVIDER EQUIPMENT HARDWARE AND CABLE. CONTRACTOR TO COORDINATE WITH SERVICE PROVIDER FOR ANY ADDITIONAL HARDWARE REQUIRED.
7. (4) 2" OPENINGS WITH RUBBER GROMMETS FOR CABLE PASS-THRU.
8. TELEPHONE/DATA/VIDEO TERMINATION BLOCK WITHIN ENCLOSURE.
9. 1-1/4" INNERDUCT WITH PULLSTRING FOR SERVICE PROVIDER USE. ROUTED ABOVE CEILING FROM SMC TO ACCESSIBLE CEILING SPACE. FIBER OPTIC CABLING TO SMC BY SERVICE PROVIDER.
10. 1-1/4" INNERDUCT CONDUIT W/ PULLSTRING, ROUTED ABOVE CEILING FROM SMC TO ACCESSIBLE CEILING SPACE.
11. PROVIDE CAT6A CABLING TO EACH VOICE, DATA OR COMBINATION VOICE DATA OUTLET LOCATION WITHIN UNIT.

1 RESIDENT UNIT COMMUNICATIONS ENCLOSURE DETAIL
LV0.1 N.T.S.

GENERAL NOTES

CHRISTOPHER WALKER NUMBER PE-2020000254 02/29/2028 PROFESSIONAL ENGINEER STATE OF MISSOURI

BID SET

PROJECT TITLE

John Knox Village

MEADOWS BUILDING PHASE III

SFCS Architecture Engineering Planning Interiors
SFCS Inc. ▪ 305 South Jefferson Street
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DESIGNER	DAS	DRAWN	JDM
ARCHITECT	DAS	CHECKED	CIW
ENGINEER	NAD	APPROVED	CIW

NO.	REVISION DESCRIPTION	DATE

DRAWING TITLE

LOW VOLTAGE DETAILS

DATE: 03/13/2026

COMM. NO. 25116.00

DRAWING LV0.1

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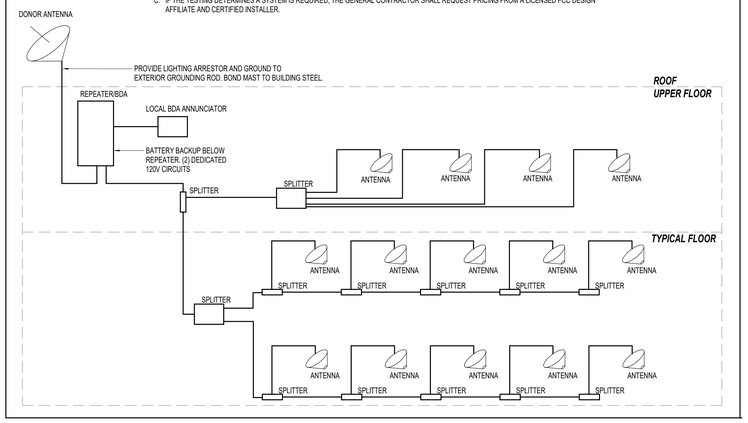
SYSTEM NOTES

A. THE RISER SHOWN IS AN EXAMPLE OF A TYPICAL DAS SYSTEM FOR EMERGENCY RESPONDER RADIO COVERAGE WITHIN A BUILDING. THE RISER IS TO IDENTIFY THE REQUIRED PARTS, HOWEVER, THE RISER MAY DIFFER FROM ITEMS SHOWN.

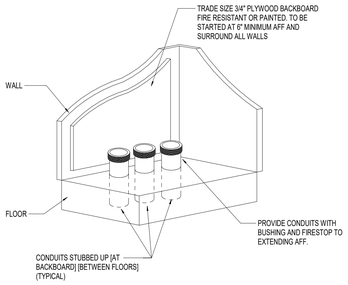
B. PROVIDE PRE & POST CONSTRUCTION, SITE SURVEY REPORT AND SUBMITTAL OF INFORMATION TO THE LOCAL AHJ OR FIRE CODE OFFICIAL FOR REVIEW AND DETERMINATION OF SYSTEM NEED.

C. IF THE TESTING DETERMINES A SYSTEM IS REQUIRED, THE GENERAL CONTRACTOR SHALL REQUEST PRICING FROM A LICENSED FCC DESIGN AFFILIATE AND CERTIFIED INSTALLER.



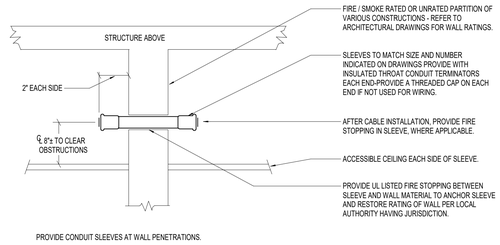
4 LV0.2 EMERGENCY RESPONDER SYSTEM RISER - EXAMPLE ONLY

N.T.S.



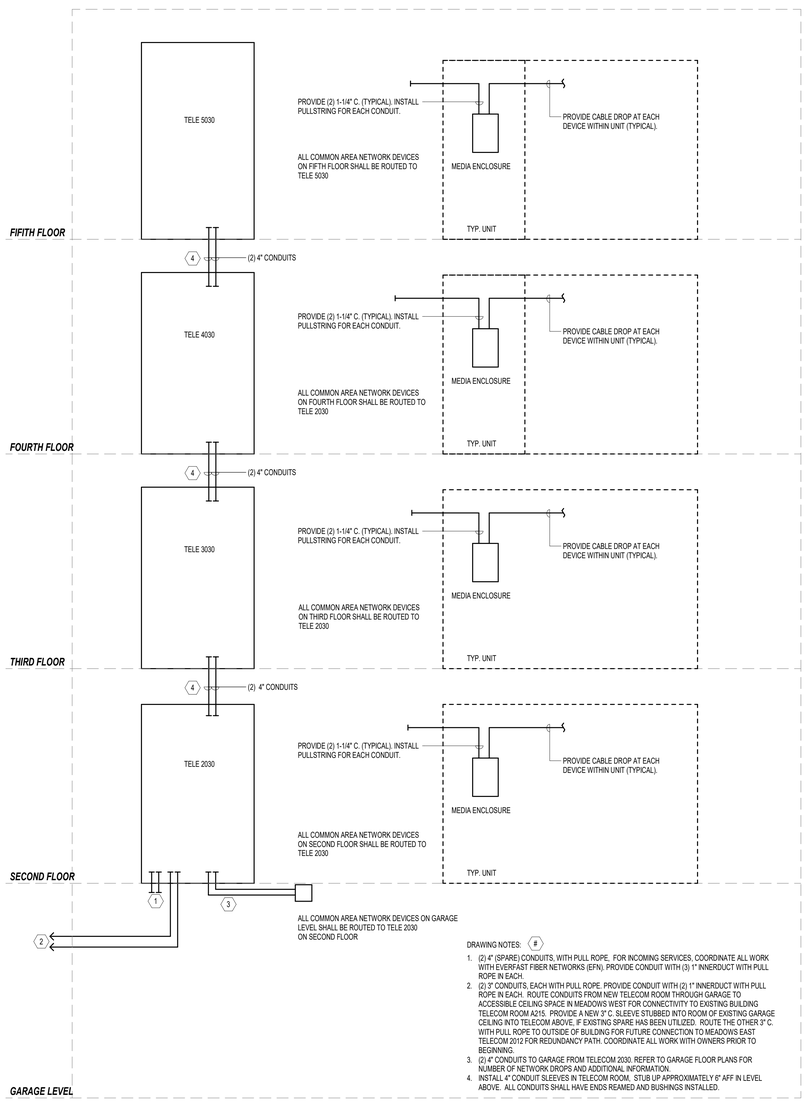
3 LV0.2 COMMUNICATIONS CONDUIT STUB-UP DETAIL

N.T.S.



2 LV0.2 CONDUIT SLEEVE PENETRATION DETAIL

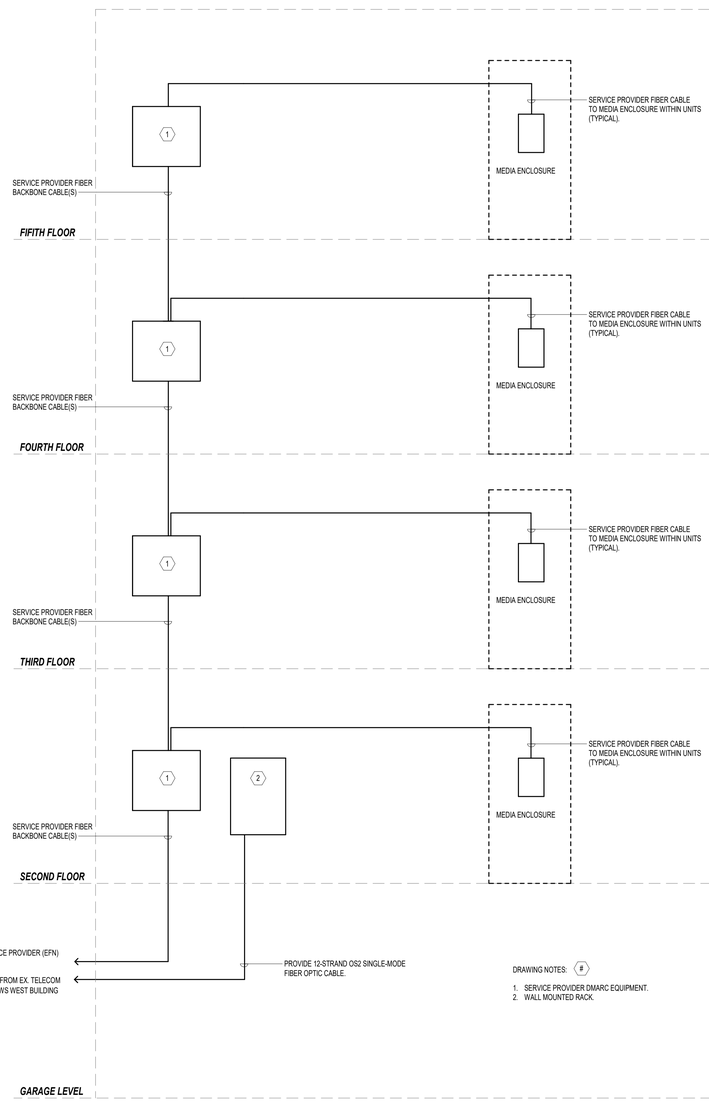
N.T.S.



DRAWING NOTES: (#)

1. (2) 4" (SPARE) CONDUITS. WITH PULL ROPE.. FOR INCOMING SERVICES, COORDINATE ALL WORK WITH EVERFAST FIBER NETWORKS (EFN). PROVIDE CONDUIT WITH (3) 1" INNERDUCT WITH PULL ROPE IN EACH.
2. (2) 3" CONDUITS, EACH WITH PULL ROPE. PROVIDE CONDUIT WITH (2) 1" INNERDUCT WITH PULL ROPE IN EACH. ROUTE CONDUITS FROM NEW TELECOM ROOM THROUGH GARAGE TO ACCESSIBLE CEILING SPACE IN MEADOWS WEST FOR CONNECTIVITY TO EXISTING BUILDING TELECOM ROOM A215. PROVIDE A NEW 3" C. SLEEVE STUBBED INTO ROOM OF EXISTING GARAGE CEILING INTO TELECOM ABOVE. IF EXISTING SPARE HAS BEEN UTILIZED. ROUTE THE OTHER 3" C. WITH PULL ROPE TO OUTSIDE OF BUILDING FOR FUTURE CONNECTION TO MEADOWS EAST TELECOM 2012 FOR REDUNDANCY PATH. COORDINATE ALL WORK WITH OWNERS PRIOR TO BEGINNING.
3. (2) 4" CONDUITS TO GARAGE FROM TELECOM 2030. REFER TO GARAGE FLOOR PLANS FOR NUMBER OF NETWORK DROPS AND ADDITIONAL INFORMATION.
4. INSTALL 4" CONDUIT SLEEVES IN TELECOM ROOM. STUB UP APPROXIMATELY 6" AFF IN LEVEL ABOVE. ALL CONDUITS SHALL HAVE ENDS REAMED AND BUSHINGS INSTALLED.

TECHNOLOGY CONDUIT RISER DIAGRAM



DRAWING NOTES: (#)

1. SERVICE PROVIDER DMARC EQUIPMENT.
2. WALL MOUNTED RACK.

TECHNOLOGY BACKBONE CABLE RISER DIAGRAM

1 LV0.2 TECHNOLOGY RISER

N.T.S.

GENERAL NOTES

STATE OF MISSOURI
CHRISTOPHER NAILOR
NUMBER
PE-2009000254
PROFESSIONAL ENGINEER

BID SET

PROJECT TITLE

John Knox Village

MEADOWS BUILDING PHASE III

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DESIGNER : DAS	DRAWN : JDM
ARCHITECT : DAS	CHECKED : CIW
ENGINEER : NAD	APPROVED : CIW

NO.	REVISION DESCRIPTION	DATE

DRAWING TITLE

LOW VOLTAGE TELECOM RISER DETAILS

DATE: 03/13/2026

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DRAWING LV0.2

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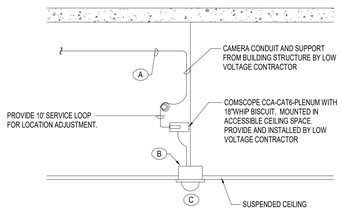
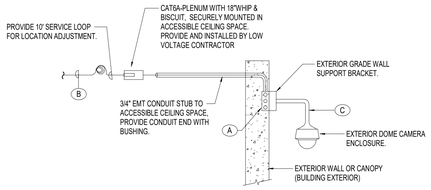


GENERAL DETAIL NOTES

A. FURNISH AND INSTALL CATEGORY 6A CABLE(S) WITH 8P8C FEMALE CONNECTOR OR AS REQUIRED BY CAMERA MANUFACTURER, TO EACH CAMERA LOCATION. CABLING SHALL BE HOME RUN TO THE PATCH PANEL IN THE DESIGNATED RACK/IDF ON THE RESPECTIVE FLOOR OR AS INDICATED ON DRAWINGS.
B. CONTRACTOR SHALL PROVIDE SURVEILLANCE CAMERA WITH DOME ENCLOSURE. MOUNTING PLATE FOR ACCESSIBLE CEILING APPLICATIONS AND SINGLE GANG BOX FOR MOUNTING.
C. FOR INACCESSIBLE CEILINGS CONTRACTOR SHALL PROVIDE AND INSTALL SURVEILLANCE CAMERA WITH DOME ENCLOSURE 4" SQUARE RECESSED BACK BOX, SINGLE GANG PLASTER RING AND 3/4" CONDUIT ROUTED TO ACCESSIBLE CEILING SPACE.

2 LV0.3 CCTV CAMERA TYPICAL INTERIOR FLUSH MOUNTING DETAIL

N.T.S.

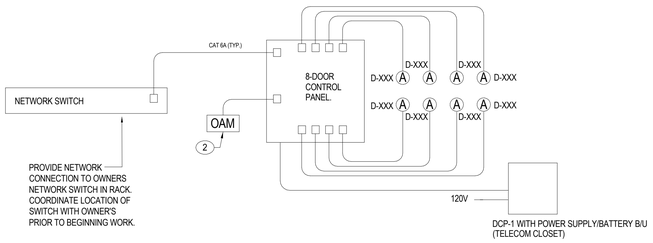


GENERAL DETAIL NOTES

A. PROVIDE 4" SQUARE BOX WITH SINGLE GANG DEVICE RING FLUSH MOUNTED ON INTERIOR SIDE OF BUILDING. VERIFY EXACT MOUNTING LOCATION WITH OWNER'S PRIOR TO ROUGH-IN. PROVIDE 3/4" CONDUIT WITH BUSHING ROUTED INTO ACCESSIBLE CEILING SPACE.
B. FURNISH AND INSTALL CATEGORY 6A CABLE(S), WITH 8P8C FEMALE CONNECTOR OR AS REQUIRED BY CAMERA MANUFACTURER, TO EACH CAMERA LOCATION. CABLING SHALL BE HOME RUN TO PATCH PANEL IN THE DESIGNATED RACK/IDF ON THE RESPECTIVE FLOOR, OR AS INDICATED ON DRAWINGS. PROVIDE SURGE PROTECTION AT EACH END OF CABLING. DITEK DTK-MRJPOES AT CAMERA & RACK MOUNTED DTK-RM24NETS, OR EQUAL.
C. CONTRACTOR SHALL COORDINATE SURVEILLANCE CAMERA MOUNTING PLATE, BACKBOX, AND OWNER REQUESTED LOCATION PRIOR TO BEGINNING. ALL PENETRATIONS SHALL BE PROPERLY SEALED TO MAINTAIN WALL RATINGS AND BLOCK WATER INFILTRATION. CAMERA MAY BE CEILING OR WALL MOUNTED, REFER TO DRAWINGS FOR LOCATIONS.

3 LV0.3 CCTV CAMERA TYPICAL EXTERIOR FLUSH MOUNTING DETAIL

N.T.S.



NOTES:
A. REFER TO ARCHITECTURAL DRAWINGS FOR DOOR SCHEDULE AND FLOOR PLAN INDICATING DOORS WITH ACCESS CONTROLS. DIAGRAM DOES NOT DEPICT ALL LOCATIONS.

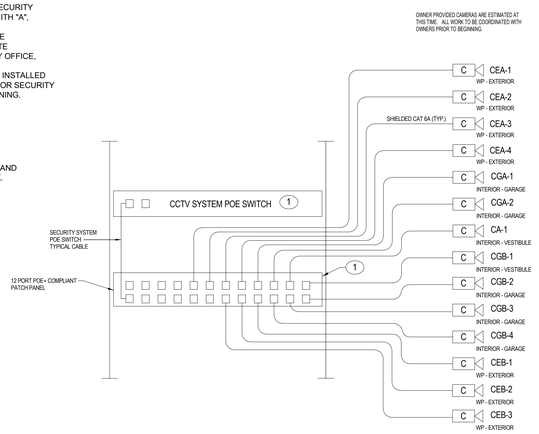
ACCESS CONTROL/CCTV SYSTEM RISER DIAGRAM GENERAL NOTES:

1. THE DIAGRAMS INDICATE GENERAL CONFIGURATION OF SYSTEMS AND MAY NOT REFLECT ALL SYSTEM COMPONENTS.
2. THE ACCESS CONTROL AND CCTV SYSTEMS SHALL BE SUPPLIED WITH DEDICATED CABLING, BOTH CAMERA LINKS AND DOOR ALARMS ARE TO ALERT AT LOCATION DETERMINED BY OWNERS.
3. THE ACCESS CONTROL SYSTEM SHALL BE SUPPLIED WITH THE NUMBER OF CONTROLLERS APPROPRIATE FOR THE SYSTEM TO BE SUPPLIED, AND MAY BE SUPPLIED WITH A DIFFERENT CONFIGURATION THAN SHOWN. COMMUNICATIONS FOR CONTROLLERS MAY BE IP OR RS485 LOOP.
4. THE ACCESS CONTROL SYSTEM SHALL BE A DXS ACCESS CONTROL SYSTEM. THE SYSTEM SHALLBE STAND-ALONE BUT CAPABLE OF INTERFACING WITH EXISTING CAMPUS SYSTEMS SO THAT ANY ALARM WILL ANNUNCIATE AT THE SECURITY OFFICE AND BE CAPABLE OF REMOTE DOOR RELEASE AT ANY DOOR, NOTED WITH "A", BY SECURITY.
5. THE INTERCOMS AT EACH DOOR, SHOWN ON FLOOR PLANS, SHALL BE CAPABLE OF INTERFACING WITH THE DSX DOOR CONTROLLER SYSTEM WITH THE REMOTE DOOR RELEASE AND THE INTERCOM COMMUNICATION FROM/TO THE SECURITY OFFICE, UNLESS NOTED OTHERWISE.
6. THE SECURITY CAMERAS, SHOWN ON FLOOR PLANS, SHALL BE PROVIDED AND INSTALLED BY OWNER. CONTRACTOR SHALL PROVIDE CABLING, PATHWAYS, SUPPORTS FOR SECURITY CAMERAS. ALL WORK SHALL BE COORDINATED WITH OWNER PRIOR TO BEGINNING.

ACCESS CONTROL/CCTV SYSTEM RISER DIAGRAM KEY NOTES: (#)

(1) CCTV/ ACCESS CONTROL SYSTEMS CONTRACTOR PROVIDED PATCH PANEL(S) AND OWNER PROVIDED NETWORK SWITCH. INSTALLED IN BUILDING TELECOM RACK.

(2) FIRE ALARM OUTPUT MODULE FOR FIRE ALARM INPUT TO ACCESS CONTROL SYSTEM.



RACK IN TELECOMM CLOSET - REFER TO RACK DETAIL

1 LV0.3 SECURITY SURVEILLANCE AND DOOR ACCESS RISER

N.T.S.

ACCESS CONTROL DOORS GENERAL NOTES:

A. PRIOR TO BEGINNING ANY WORK A MEETING SHALL BE HELD WITH THE GENERAL CONTRACTOR, THE ELECTRICAL CONTRACTOR, THE DOOR HARDWARE SUPPLIER AND THE LOW VOLTAGE SECURITY CONTRACTOR TO CONFIRM ALL WORK HAS BEEN PROPERLY COORDINATED.
B. REFER TO DOOR HARDWARE SPECIFICATION 087100 FOR INFORMATION PERTAINING TO HARDWARE THAT WILL BE PROVIDED BY DOOR HARDWARE SUPPLIER.
C. PROVIDE INTERFACE BETWEEN ACCESS CONTROL SYSTEM AND BUILDING FIRE ALARM SUCH THAT DOOR LOCKING DEVICES RELEASE UPON ACTIVATION OF FIRE ALARM CONDITION.
D. ALL ELECTRIC HARDWARE REQUIRED FOR CONTROL OF DOORS SHALL BE PROVIDED AND INSTALLED BY THE HARDWARE SUPPLIER.
E. ALL LOW VOLTAGE SIGNAL, POWER AND MONITOR WIRING INSTALLED AT EACH DOOR BETWEEN FIELD DEVICES AND DOOR CONTROL PANEL AT EACH DOOR SHALL BE INSTALLED IN EMT, MINIMUM SIZE 3/4"C, UNLESS OTHERWISE NOTED. ALL WIRING AND WIRING TERMINATIONS SHALL BE BY THE LOW VOLTAGE ACCESS CONTROL SECURITY CONTRACTOR.
F. ALL OUTLET BOXES, CONDUITS (PROVIDED WITH PULL STRING), AND BACKBOXES REQUIRED FOR INSTALLATION OF THE ACCESS CONTROL SYSTEMS SHALL BE PROVIDED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
G. ALL ELECTRICALLY CONTROLLED HARDWARE WILL BE SUPPLIED TO OPERATE AT 24VDC. DOOR HARDWARE SUPPLIER SHALL SUPPLY THE POWER SUPPLIES AND THE DOOR CONTROLLER AS INDICATED IN THE SPECIFICATIONS FOR THE REQUIRED 24VDC. ELECTRICAL CONTRACTOR SHALL EXTEND 120VAC BRANCH CIRCUIT TO ALL DOOR CONTROLLERS AND POWER SUPPLIES AS SHOWN. LOW VOLTAGE CONTRACTOR SHALL PROVIDE POWER SUPPLIES IF NOT LISTED IN DOOR HARDWARE SPECIFICATIONS.

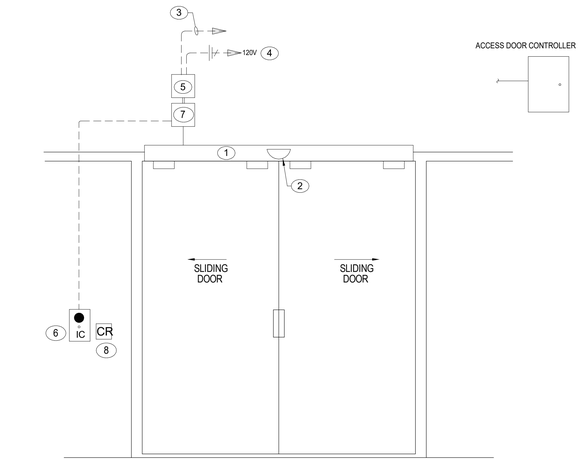
ACCESS CONTROL DOOR FUNCTION DESCRIPTIONS:

DOOR GROUP A

a. EXTERIOR DOOR SECURED FROM ENTRY BY MAGNETIC DOOR LOCK. DOOR IS NORMALLY CLOSED AND LOCKED.
b. PRESENTATION OF CARD AT READER RELEASES MAGNETIC LOCK PERMITTING INGRESS BY DOOR PULL.
c. PUSH TO EXIT BUTTON ON INTERIOR, RELEASES MAGNETIC LOCK PERMITTING EGRESS.
d. IN THE EVENT OF LOST POWER THE DOOR UNLOCKS AND PERMITS EGRESS. AFTER INTERCOM COMMUNICATION WITH SECURITY GUARD WHO SHALL PERMIT ENTRANCE BY REMOTE RELEASE.

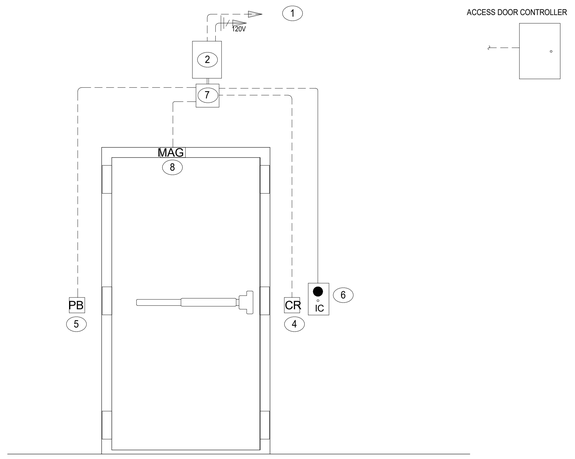
DOOR GROUP B

a. DOUBLE SLIDING EXTERIOR ENTRANCE/EXIT DOOR SECURED FROM ENTRY ON TIME SCHEDULE FOR AFTER NORMAL BUSINESS HOURS.
b. IN UNSECURE MODE, DURING NORMAL BUSINESS HOURS THE DOOR AUTOMATICALLY OPENS BY ACTIVATION OF SENSOR SUPPLIED WITH DOOR HARDWARE.
c. IN SECURE MODE, DOOR REMAINS CLOSED UNTIL CREDENTIALS HAVE BEEN PRESENTED ALONG WITH SENSOR ACTIVATION OR AFTER INTERCOM COMMUNICATION WITH SECURITY GUARD WHO SHALL PERMIT ENTRANCE BY REMOTE RELEASE.



(1) DOOR CONTROL KEYNOTES (TYPICAL FOR AUTOMATIC ENTRANCE WITH INTERCOM):

1. DOOR OPERATOR PROVIDED AND INSTALLED BY DOOR HARDWARE SUPPLIER. PROVIDE 120V BRANCH CIRCUIT TO DOOR OPERATOR CONCEALED IN 3/4" C. COORDINATE ALL REQUIREMENTS WITH DOOR HARDWARE SUPPLIER PRIOR TO BEGINNING ANY WORK.
2. DOOR MOTION SENSOR PROVIDED AND INSTALLED BY DOOR HARDWARE SUPPLIER. DOORS TO BE SECURED FROM ENTRY ON TIME SCHEDULE AFTER NORMAL BUSINESS HOURS. COORDINATE ALL REQUIREMENTS WITH DOOR HARDWARE SUPPLIER PRIOR TO BEGINNING ANY WORK.
3. COMMUNICATIONS/ CONTROL CABLE FROM SLIDING DOOR CONTROL TO ACCESS CONTROL DOOR CONTROL PANEL.
4. 120V BRANCH CIRCUIT IN 3/4" EMT CONDUIT PATHWAY IN ACCESSIBLE CEILINGS BY ELECTRICAL CONTRACTOR.
5. POWER SUPPLY BOX, LOCATED NEAR DOOR, ABOVE CEILING ON THE SECURE SIDE.
6. ALGO AUDIO INTERCOM. INTERCOM SHALL INCLUDE DOOR RELEASE FROM REMOTE SECURITY LOCATION AFTER COMMUNICATION HAS BEEN ESTABLISHED WITH SECURITY DESK. INTERCOM SYSTEM WITH BACKBOX INCLUDED, MOUNTED AT 48"AFF MAX. FOR CALL BUTTON ON UNSECURED SIDE OF DOOR. COORDINATE EXACT LOCATION WITH CAMPUS SECURITY PERSONNEL. INTERCOM PROVIDED BY SERVICE PROVIDER. ALL LOW VOLTAGE WIRING FOR RELAY OUTPUT TO ELECTRIC LOCKS, ETC. TO BE PROVIDED, INSTALLED AND TERMINATED BY CONTRACTOR. LOCAL CAMERA SHALL ALERT SECURITY WHEN VISITOR OR RESIDENT IS AT INTERCOM.
7. 6X6 JUNCTION BOX ABOVE ACCESSIBLE CEILING.
8. 4X4 BOX WITH SINGLE GANG PLASTER RING CENTERED AT 44" AFF FOR CARD READER ON THE UNSECURED SIDE, PROVIDE 3/4" EMT CONDUIT AND EXTEND LOW VOLTAGE WIRING FROM CARD READER TO THE POWER SUPPLY PANEL.



(2) DOOR CONTROL KEYNOTES (TYPICAL FOR SINGLE DOORS WITH INTERCOM):

1. POWER AND/OR CONTROL WIRING TO SYSTEM CONTROL PANEL VIA SEPARTE 3/4" EMT CONDUIT PATHWAYS IN ACCESSIBLE CEILING.
2. POWER SUPPLY FOR ELECTRONIC HARDWARE, PROVIDED BY DOOR HARDWARE SUPPLIER. 120V BRANCH CIRCUIT IN 3/4" EMT CONDUIT PATHWAY IN ACCESSIBLE CEILINGS BY ELECTRICAL CONTRACTOR.
3. NOT USED.
4. 4X4 BOX WITH SINGLE GANG PLASTER RING CENTERED AT 44" AFF FOR CARD READER ON THE UNSECURED SIDE, PROVIDE 3/4" EMT CONDUIT AND EXTEND LOW VOLTAGE WIRING FROM CARD READER TO THE POWER SUPPLY PANEL.
5. REQUEST TO EXIT PUSHBUTTON ON SECURED SIDE EGRESS WILL RELEASE ELECTRIFIED MAGNETIC LOCK AND PERMIT EXIT, PROVIDED AND INSTALLED BY DOOR HARDWARE SUPPLIER. LOW VOLTAGE WIRING INSTALLED AND TERMINATED BY LOW VOLTAGE CONTRACTOR.
6. ALGO AUDIO INTERCOM. INTERCOM SHALL INCLUDE DOOR RELEASE FROM REMOTE SECURITY LOCATION AFTER COMMUNICATION HAS BEEN ESTABLISHED WITH SECURITY DESK. INTERCOM SYSTEM WITH BACKBOX INCLUDED, MOUNTED AT 48"AFF MAX. FOR CALL BUTTON ON UNSECURED SIDE OF DOOR. COORDINATE EXACT LOCATION WITH CAMPUS SECURITY PERSONNEL. INTERCOM PROVIDED BY SERVICE PROVIDER. ALL LOW VOLTAGE WIRING FOR RELAY OUTPUT TO ELECTRIC LOCKS, ETC. TO BE PROVIDED, INSTALLED AND TERMINATED BY CONTRACTOR. LOCAL CAMERA SHALL ALERT SECURITY WHEN VISITOR OR RESIDENT IS AT INTERCOM.
7. 6X6 JUNCTION BOX ABOVE ACCESSIBLE CEILING.
8. MAGNETIC LOCK.

GENERAL NOTES

STATE OF MISSOURI
CHRISTOPHER MALCOLM ALLEN
NUMBER PE-2026000254
11/6/2025
PROFESSIONAL ENGINEER

BID SET

PROJECT TITLE

John Knox Village

MEADOWS BUILDING PHASE III

SFCS Architecture Engineering Planning Interiors
SFCS Inc. ▪ 305 South Jefferson Street
Roanoke, Virginia 24011.2003
540.344.6664 ▪ Fax 540.343.6925
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DESIGNER	: DAS	DRAWN	: JDM
ARCHITECT	: DAS	CHECKED	: CW
ENGINEER	: NAD	APPROVED	: CW

NO.	REVISION DESCRIPTION	DATE

DRAWING TITLE

LOW VOLTAGE DETAILS & RISERS

DATE: 03/13/2026

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DRAWING LV0.3

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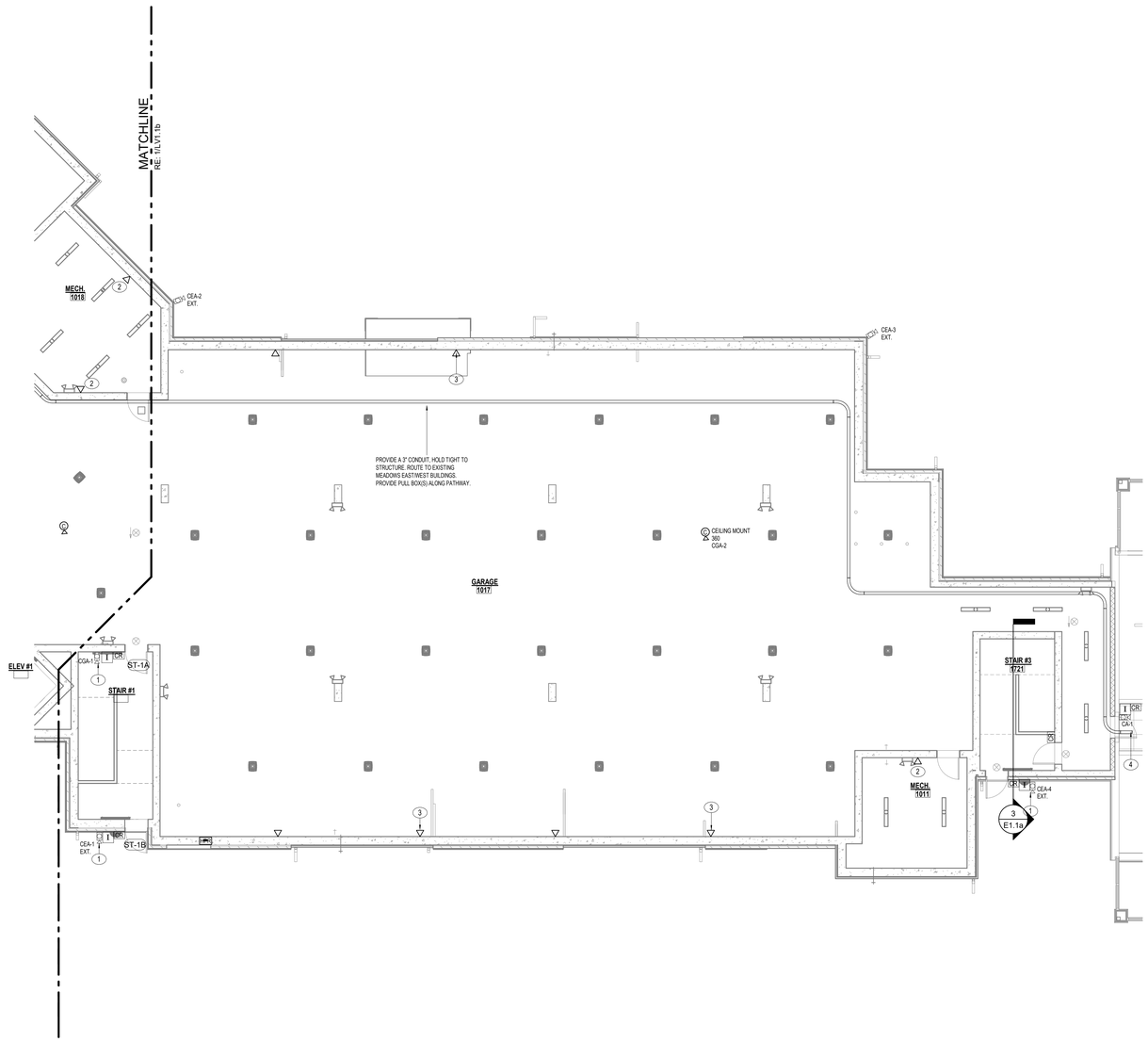
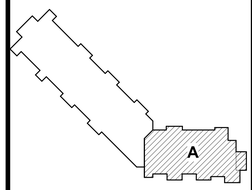


1 LV1.1a GARAGE FLOOR PLAN - AREA A - LOW VOLTAGE

1/8" = 1'-0"

PLAN NORTH

KEYPLAN



PLAN NORTH

PLAN NOTES

1. PROVIDE BACKBOX, CONDUIT STUB-UB AND CABLING FOR SECURITY CAMERA TO BE INSTALLED DIRECTLY ABOVE INTERCOM AT APPROXIMATELY 6'-0" AFF.
2. PROVIDE NETWORK DROP FOR MECHANCIAL, ELECTRICAL AND FIRE ALARM. COORDINATE LOCATION OF EQUIPMENT WITH CONTRACTORS PRIOR TO ROUGH-IN.
3. PROVIDE 1" C. WITH PULL ROPE FROM TELECOM ROOM 2030, FOR FUTURE ELECTRIC CAR CHARGER, TYPICAL FOR ALL LOCATIONS IN GARAGE AREA "A" AND SELECT LOCATIONS IN GARAGE AREA "B". REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
4. CONTINUE FIBER CABLE ROUTING ABOVE ACCESSIBLE CEILING TO THE MEADOWS WEST TELECOM A215. PROPERLY SUPPORT CABLE ABOVE CEILING. PROVIDE NEW FIBER CASSETTE ENCLOSURE AND TERMINATE FIBER. COORDINATE ALL WORK WITH OWNERS PRIOR TO BEGINNING ROUGH-IN.

GENERAL NOTES

A. DOORS INDICATED WITH A DOOR TAG OR NOTED WITH "A" ARE ACCESS CONTROLLED DOORS. PROVIDE 120VAC CONNECTION WHERE REQUIRED. REFER TO DOOR HARDWARE SPECIFICATIONS AND ELECTRICAL DRAWINGS FOR ALL ELECTRICAL CONNECTION REQUIREMENTS, ROUGH-INS, AND ADDITIONAL INFORMATION. COORDINATE WITH DOOR HARDWARE SUPPLIER AND ACCESS CONTROL VENDOR.
B. CONDUIT, WITH PULL STRING, TO BE PROVIDED ABOVE GWB OR OTHER INACCESSIBLE AREAS FOR LOW VOLTAGE CONTRACTORS USE. PROVIDE HIGH TENSILE PULL CORDS IN ALL CONDUITS.
C. PROVIDE J-HOOK SUPPORTS FOR CABLE ROUTING THROUGHOUT AREAS ABOVE ACCESSIBLE CORRIDOR CEILING SPACE.
D. PROVIDE AND INSTALL SLEEVES, WITH BUSHINGS FOR CABLE PROTECTION, AT ALL LOCATIONS WHERE CABLE MUST PASS THROUGH WALLS AND PARTITIONS. DO NOT ROUTE CABLE THROUGH WALLS WITHOUT SLEEVES. PROPERLY SEAL ALL PENETRATIONS.
E. ALL ENDS OF CONDUIT SHALL BE REAMED AND FITTED WITH BUSHINGS AT BOTH ENDS.
F. COORDINATE WITH OTHER DISCIPLINES THE PROPOSED LOCATIONS FOR ALL LOW VOLTAGE CONDUITS AND SLEEVES PRIOR TO INSTALLATION.
G. ALL CONDUIT AND BACKBOXES TO BE INSTALLED BY ELECTRICAL CONTRACTOR IN ACCORDANCE WITH THE ELECTRICAL SPECIFICATIONS.
H. COORDINATE LOCATIONS OF NETWORK DROPS AT MECHANICAL, ELECTRICAL AND FIRE ALARM EQUIPMENT.
I. ON THE TYPICAL OVERALL FLOOR PLAN LV1.3a & LV1.3b, ONLY THE ROOM NAMES FOR THE 3RD FLOOR ARE SHOWN. THE 4TH AND 5TH FLOOR NAMES WILL REFLECT THE FLOOR NUMBER WITH THE REMAINING NUMBER AS SHOWN ON THE 3RD FLOOR PLANS. EXAMPLE - 4TH FLOOR IT ROOM NUMBER 4030, AND 5TH FLOOR IT ROOM NUMBER 5030. TYPICAL FOR ALL ROOM NAMES.

CHRISTOPHER WALDRON NUMBER PE-2026030254 02-22-2026 PROFESSIONAL ENGINEER STATE OF MISSOURI

BID SET

PROJECT TITLE

John Knox Village

MEADOWS BUILDING PHASE III

SFCS Architecture Engineering Planning Interiors

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Roanoke, Virginia 24011.2003
540.344.6664 ▪ Fax 540.343.6925
www.sfcs.com

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ARCHITECT	: DAS	CHECKED	: CIW
ENGINEER	: NAD	APPROVED	: CIW

NO.	REVISION DESCRIPTION	DATE

DRAWING TITLE

GARAGE FLOOR PLAN - AREA A - LOW VOLTAGE

DATE: 03/13/2026

COMM. NO. 25116.00

DRAWING LV1.1a

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Roanoke, Virginia 24011.2003

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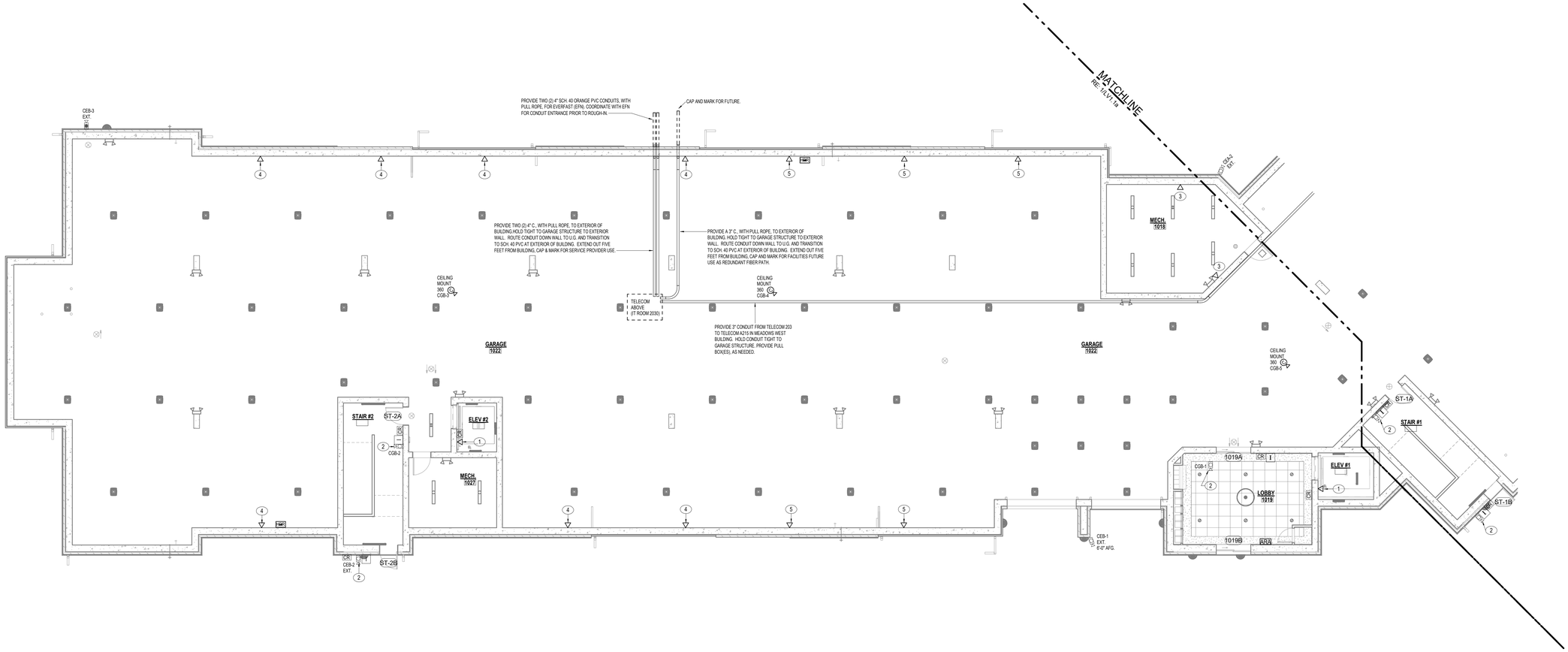
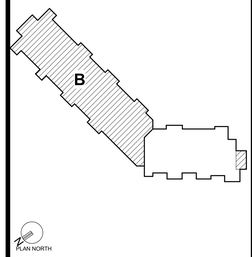


1 LV1.1b GARAGE FLOOR PLAN - AREA B - LOW VOLTAGE

1/8" = 1'-0"

KEYPLAN



PLAN NOTES

1. CAT6A CABLE TO ELEVATOR CAB PHONE. COORDINATE WITH ELEVATOR COMPANY PRIOR TO BEGINNING WORK.
2. PROVIDE BACKBOX, CONDUIT STUB-UB AND CABLING FOR SECURITY CAMERA TO BE INSTALLED DIRECTLY ABOVE INTERCOM AT APPROXIMATELY 6'-0" AFF.
3. PROVIDE NETWORK DROP FOR MECHANICAL, ELECTRICAL AND FIRE ALARM. COORDINATE LOCATION OF EQUIPMENT WITH CONTRACTORS PRIOR TO ROUGH-IN.
4. PROVIDE 1" C. WITH PULL ROPE FROM TELECOM ROOM 2030, FOR FUTURE ELECTRIC CAR CHARGER, TYPICAL FOR ALL LOCATIONS IN GARAGE AREA "A" AND SELECT LOCATIONS IN GARAGE AREA "B". REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
5. PROVIDE 1" C. WITH CAT6A FROM TELECOM ROOM 2030, FOR ELECTRIC CAR CHARGER. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.

GENERAL NOTES

A. DOORS INDICATED WITH A DOOR TAG OR NOTED WITH "A" ARE ACCESS CONTROLLED DOORS. PROVIDE 120VAC CONNECTION WHERE REQUIRED. REFER TO DOOR HARDWARE SPECIFICATIONS AND ELECTRICAL DRAWINGS FOR ALL ELECTRICAL CONNECTION REQUIREMENTS, ROUGH-INS, AND ADDITIONAL INFORMATION. COORDINATE WITH DOOR HARDWARE SUPPLIER AND ACCESS CONTROL VENDOR.
B. CONDUIT, WITH PULL STRING, TO BE PROVIDED ABOVE GWB OR OTHER INACCESSIBLE AREAS FOR LOW VOLTAGE CONTRACTORS USE. PROVIDE HIGH TENSILE PULL CORDS IN ALL CONDUITS.
C. PROVIDE J-HOOK SUPPORTS FOR CABLE ROUTING THROUGHOUT AREAS ABOVE ACCESSIBLE CORRIDOR CEILING SPACE.
D. PROVIDE AND INSTALL SLEEVES, WITH BUSHINGS FOR CABLE PROTECTION, AT ALL LOCATIONS WHERE CABLE MUST PASS THROUGH WALLS AND PARTITIONS. DO NOT ROUTE CABLE THROUGH WALLS WITHOUT SLEEVES. PROPERLY SEAL ALL PENETRATIONS.
E. ALL ENDS OF CONDUIT SHALL BE REAMED AND FITTED WITH BUSHINGS AT BOTH ENDS.
F. COORDINATE WITH OTHER DISCIPLINES THE PROPOSED LOCATIONS FOR ALL LOW VOLTAGE CONDUITS AND SLEEVES PRIOR TO INSTALLATION.
G. ALL CONDUIT AND BACKBOXES TO BE INSTALLED BY ELECTRICAL CONTRACTOR IN ACCORDANCE WITH THE ELECTRICAL SPECIFICATIONS.
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STATE OF MISSOURI
CHRISTOPHER I. WALLACE
NUMBER
PE-2026000254
12/31/2026
PROFESSIONAL ENGINEER

BID SET

PROJECT TITLE

John Knox Village

MEADOWS BUILDING PHASE III

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ARCHITECT	: DAS	CHECKED	: CIW
ENGINEER	: NAD	APPROVED	: CIW

NO.	REVISION DESCRIPTION	DATE

DRAWING TITLE

GARAGE FLOOR PLAN - AREA B - LOW VOLTAGE

DATE: 03/13/2026

COMM. NO. 25116.00

DRAWING LV1.1b

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Roanoke, Virginia 24011.2003

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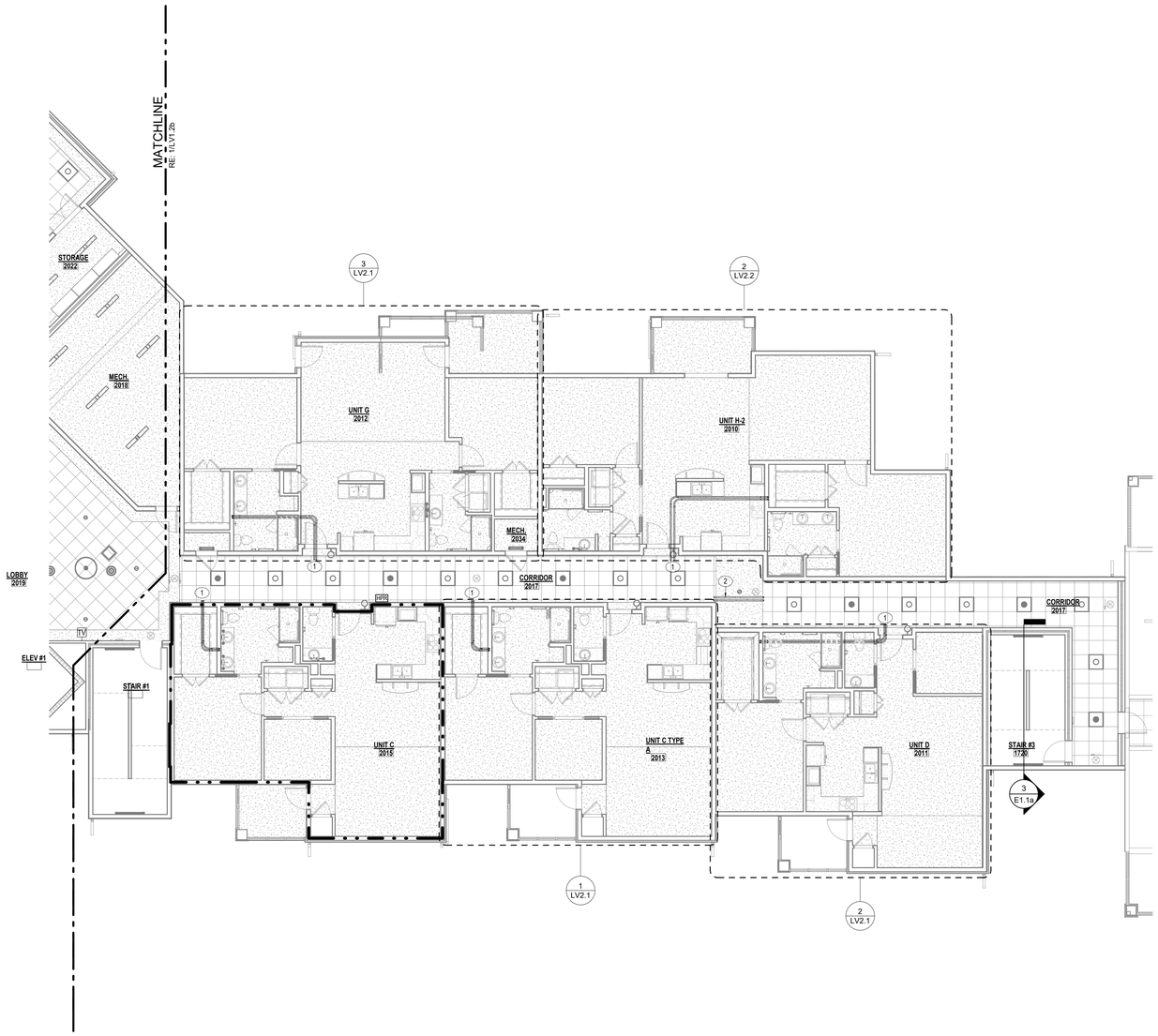
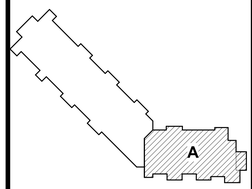


1 SECOND FLOOR PLAN - AREA A - LOW VOLTAGE
LV1.2a 1/8" = 1'-0"

PLAN NORTH

KEYPLAN



PLAN NORTH

PLAN NOTES

1 (2) 1-1/4" INNERDUCT EXTENDED, FROM STRUCTURED MEDIA CENTER (SMC) ENCLOSURE, ABOVE CEILING TO ACCESSIBLE CEILING SPACE IN CORRIDOR. PROVIDE PULL STRING IN CONDUITS FROM SMC ENCLOSURE TO STUB OUTS ABOVE CEILING. REFER TO ENLARGED PLANS FOR ADDITIONAL INFORMATION. TYPICAL FOR ALL UNITS ON ALL FLOORS.

2 EXTEND TWO (2) 2" EMT CONDUIT, WITH PULL STRING, ABOVE CORRIDOR HARD CEILINGS.

GENERAL NOTES

A. DOORS INDICATED WITH A DOOR TAG OR NOTED WITH "A" ARE ACCESS CONTROLLED DOORS. PROVIDE 120VAC CONNECTION WHERE REQUIRED. REFER TO DOOR HARDWARE SPECIFICATIONS AND ELECTRICAL DRAWINGS FOR ALL ELECTRICAL CONNECTION REQUIREMENTS, ROUGH-INS, AND ADDITIONAL INFORMATION. COORDINATE WITH DOOR HARDWARE SUPPLIER AND ACCESS CONTROL VENDOR.
B. CONDUIT, WITH PULL STRING, TO BE PROVIDED ABOVE GWB OR OTHER INACCESSIBLE AREAS FOR LOW VOLTAGE CONTRACTORS USE. PROVIDE HIGH TENSILE PULL CORDS IN ALL CONDUITS.
C. PROVIDE J-HOOK SUPPORTS FOR CABLE ROUTING THROUGHOUT AREAS ABOVE ACCESSIBLE CORRIDOR CEILING SPACE.
D. PROVIDE AND INSTALL SLEEVES, WITH BUSHINGS FOR CABLE PROTECTION, AT ALL LOCATIONS WHERE CABLE MUST PASS THROUGH WALLS AND PARTITIONS. DO NOT ROUTE CABLE THROUGH WALLS WITHOUT SLEEVES. PROPERLY SEAL ALL PENETRATIONS.
E. ALL ENDS OF CONDUIT SHALL BE REAMED AND FITTED WITH BUSHINGS AT BOTH ENDS.
F. COORDINATE WITH OTHER DISCIPLINES THE PROPOSED LOCATIONS FOR ALL LOW VOLTAGE CONDUITS AND SLEEVES PRIOR TO INSTALLATION.
G. ALL CONDUIT AND BACKBOXES TO BE INSTALLED BY ELECTRICAL CONTRACTOR IN ACCORDANCE WITH THE ELECTRICAL SPECIFICATIONS.
H. COORDINATE LOCATIONS OF NETWORK DROPS AT MECHANICAL, ELECTRICAL AND FIRE ALARM EQUIPMENT.
I. ON THE TYPICAL OVERALL FLOOR PLAN LV1.3a & LV1.3b, ONLY THE ROOM NAMES FOR THE 3RD FLOOR ARE SHOWN. THE 4TH AND 5TH FLOOR NAMES WILL REFLECT THE FLOOR NUMBER WITH THE REMAINING NUMBER AS SHOWN ON THE 3RD FLOOR PLANS. EXAMPLE - 4TH FLOOR IT ROOM NUMBER 4030, AND 5TH FLOOR IT ROOM NUMBER 5030. TYPICAL FOR ALL ROOM NAMES.

STATE OF MISSOURI
CHRISTOPHER WALLACE ALLEN
NUMBER
PE-2009008254
03/13/2026
PROFESSIONAL ENGINEER

BID SET

PROJECT TITLE

John Knox Village

MEADOWS BUILDING PHASE III

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ARCHITECT	: DAS	CHECKED	: CIW
ENGINEER	: NAD	APPROVED	: CIW

NO.	REVISION DESCRIPTION	DATE

DRAWING TITLE

SECOND FLOOR PLAN - AREA A - LOW VOLTAGE

DATE: 03/13/2026
COMM. NO. 25116.00
DRAWING LV1.2a

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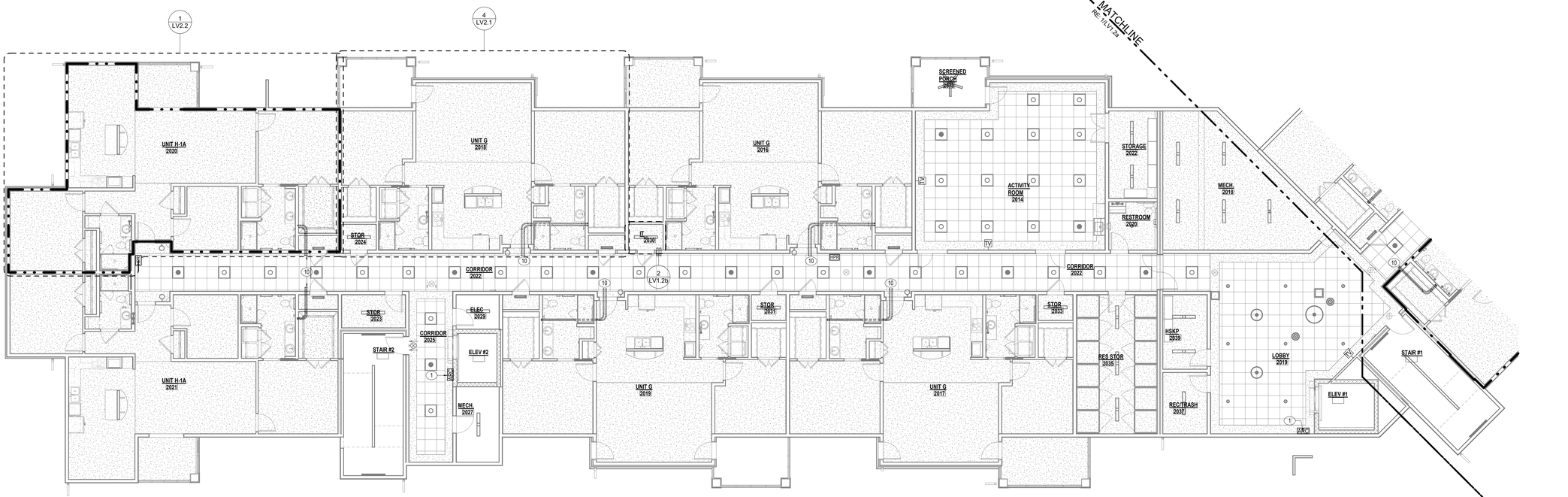
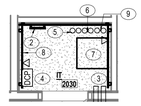
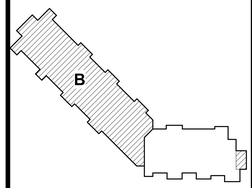


1 LV1.2b SECOND FLOOR PLAN - AREA B - LOW VOLTAGE
1/8" = 1'-0"



2 LV1.2b ENLARGED TELECOM ROOM #IT 2030
1/4" = 1'-0"

KEYPLAN



PLAN NOTES

1. AREA OF RESCUE TWO-WAY CALLING. CALLS SENT TO CAMPUS SECURITY INITIALLY THEN TO 911 OPERATOR, IF NO RESPONSE. AOR CALLOUT MUST REACH LIVE PERSON, NO RECORDED MESSAGES PERMITTED
2. TMBG OR TGB GROUND BAR AT 18" AFF.
3. TWO (2) 3" EMT SLEEVES, PROVIDED WITH APPROPRIATE SEALANT TO MAINTAIN WALL RATING.
4. PROVIDE CAT6A CABLE AND 120V POWER DSX CONTROLLER.
5. TWO (2) 4"C. SLEEVES STUBBED UP 6" A.F.F THROUGH CEILING/FLOOR SLAB TO LEVEL ABOVE/BELOW FOR FACILITY NETWORK CABLING. PROVIDE APPROPRIATE SEALANT TO MAINTAIN RATING OF FLOOR.
6. TWO (2) 4"C. SLEEVES ROUTED THROUGH FLOOR/CEILING SPACE FOR SERVICE PROVIDER USE FOR CABLE ROUTING. PROVIDE APPROPRIATE SEALANT TO MAINTAIN FLOOR/CEILING RATINGS.
7. WALL MOUNT SWING OUT RACK, CPI, or EQUAL, REFER TO DETAIL FOR ADDITIONAL INFORMATION.
8. COMMUNICATIONS BACKBOARD - PROVIDE AND INSTALL 8'-0" H x 3/4" FIRE RATED PLYWOOD SECURED ALONG THE LENGTH OF WALLS, AS INDICATED. INSTALL BOTTOM OF BOARD AT 12" AFF. PRIOR TO ROUGH-IN COORDINATE WITH OWNER FOR ADDITIONAL OWNER PROVIDED EQUIPMENT THAT MAY BE INSTALLED WITHIN THE ROOM.
9. TWO (2) 3"CONDUITS STUBBED UP 6" A.F.F THROUGH CEILING/FLOOR SLAB TO LEVEL BELOW FOR FACILITY NETWORK CABLING. PROVIDE APPROPRIATE SEALANT TO MAINTAIN RATING OF FLOOR.
10. (2) 1-1/4" INNERDUCT EXTENDED, FROM STRUCTURED MEDIA CENTER (SMC) ENCLOSURE: ABOVE CEILING TO ACCESSIBLE CEILING SPACE IN CORRIDOR. PROVIDE PULL STRING IN CONDUITS FROM SMC ENCLOSURE TO STUB OUTS ABOVE CEILING. REFER TO ENLARGED PLANS FOR ADDITIONAL INFORMATION. TYPICAL FOR ALL UNITS ON ALL FLOORS.

GENERAL NOTES

A. DOORS INDICATED WITH A DOOR TAG OR NOTED WITH "A" ARE ACCESS CONTROLLED DOORS. PROVIDE 120VAC CONNECTION WHERE REQUIRED. REFER TO DOOR HARDWARE SPECIFICATIONS AND ELECTRICAL DRAWINGS FOR ALL ELECTRICAL CONNECTION REQUIREMENTS, ROUGH-INS, AND ADDITIONAL INFORMATION. COORDINATE WITH DOOR HARDWARE SUPPLIER AND ACCESS CONTROL VENDOR.
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C. PROVIDE J-HOOK SUPPORTS FOR CABLE ROUTING THROUGHOUT AREAS ABOVE ACCESSIBLE CORRIDOR CEILING SPACE.
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G. ALL CONDUIT AND BACKBOXES TO BE INSTALLED BY ELECTRICAL CONTRACTOR IN ACCORDANCE WITH THE ELECTRICAL SPECIFICATIONS.
H. COORDINATE LOCATIONS OF NETWORK DROPS AT MECHANICAL, ELECTRICAL AND FIRE ALARM EQUIPMENT.
I. ON THE TYPICAL OVERALL FLOOR PLAN LV1.3a & LV1.3b, ONLY THE ROOM NAMES FOR THE 3RD FLOOR ARE SHOWN. THE 4TH AND 5TH FLOOR NAMES WILL REFLECT THE FLOOR NUMBER WITH THE REMAINING NUMBER AS SHOWN ON THE 3RD FLOOR PLANS. EXAMPLE - 4TH FLOOR IT ROOM NUMBER 4030, AND 5TH FLOOR IT ROOM NUMBER 5030. TYPICAL FOR ALL ROOM NAMES.

STATE OF MISSOURI
CHRISTOPHER WALLACE
NUMBER
PE-2026000254
02/23/2026
PROFESSIONAL ENGINEER

BID SET

PROJECT TITLE

John Knox Village

MEADOWS BUILDING PHASE III

SFCS
Architecture
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Planning
Interiors

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ARCHITECT	: DAS	CHECKED	: CIW
ENGINEER	: NAD	APPROVED	: CIW

NO.	REVISION DESCRIPTION	DATE

DRAWING TITLE

SECOND FLOOR PLAN - AREA B - LOW VOLTAGE

DATE: 03/13/2026
COMM. NO. 25116.00
DRAWING LV1.2b

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Roanoke, Virginia 24011.2003

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3/13/2026
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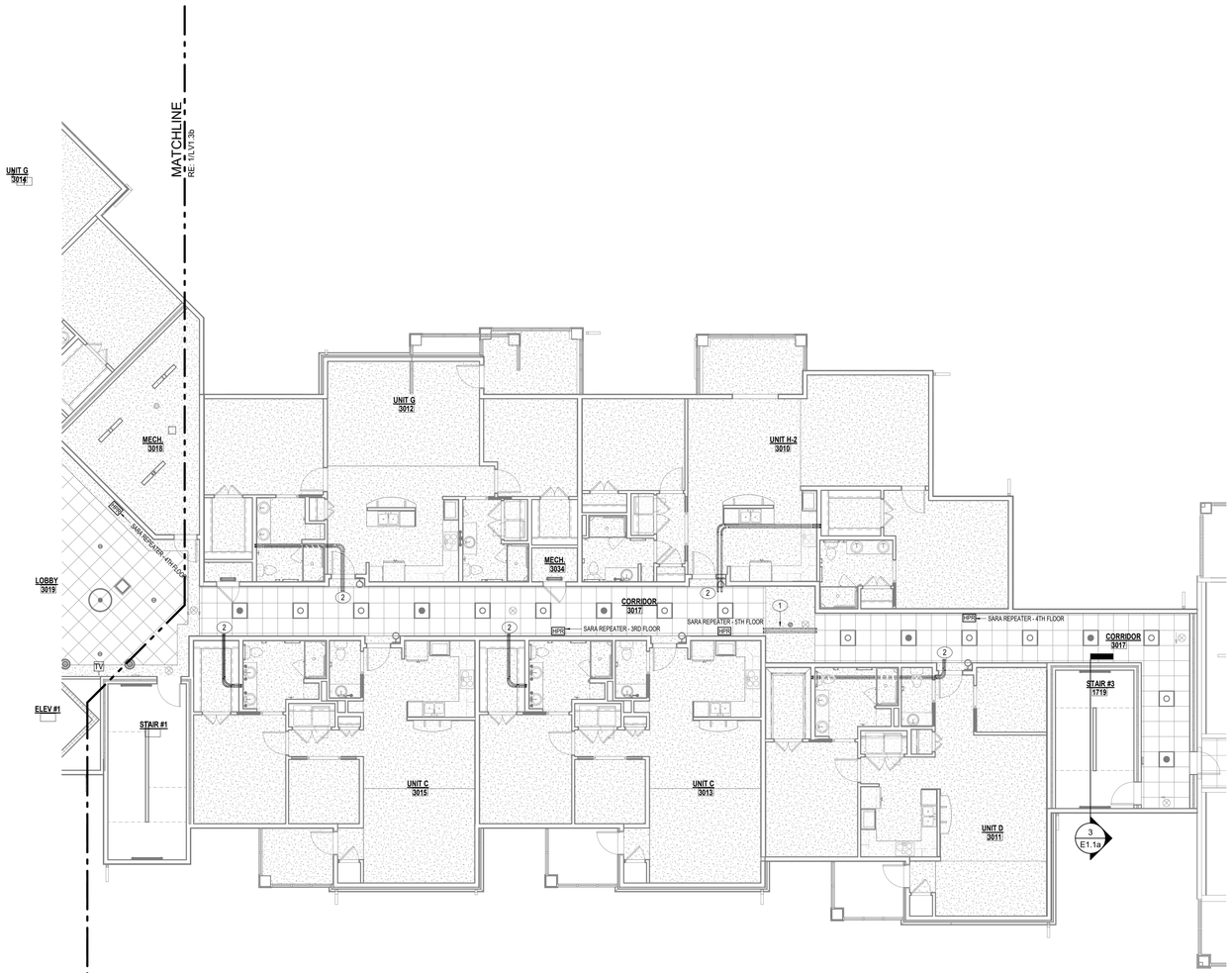
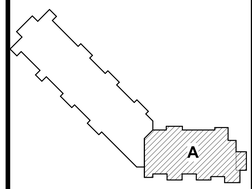
Autodesk Docs://25116.00 - John Knox Village - Meadows III/25116.00 - John Knox Village - Meadows III - ELECTRICAL CENTRAL.rvt



1 THIRD, FOURTH, FIFTH TYPICAL FLOOR PLAN - AREA A - LOW VOLTAGE
LV1.3a 1/8" = 1'-0"

PLAN NORTH

KEYPLAN



PLAN NORTH

PLAN NOTES

1. EXTEND TWO (2) 2" EMT CONDUIT, WITH PULL STRING, ABOVE CORRIDOR HARD CEILINGS.
2. (2) 1-1/4" INNERDUCT EXTENDED, FROM STRUCTURED MEDIA CENTER (SMC) ENCLOSURE, ABOVE CEILING TO ACCESSIBLE CEILING SPACE IN CORRIDOR. PROVIDE PULL STRING IN CONDUITS FROM SMC ENCLOSURE TO STUB OUTS ABOVE CEILING. REFER TO ENLARGED PLANS FOR ADDITIONAL INFORMATION. TYPICAL FOR ALL UNITS ON ALL FLOORS.

GENERAL NOTES

A. DOORS INDICATED WITH A DOOR TAG OR NOTED WITH "A" ARE ACCESS CONTROLLED DOORS. PROVIDE 120VAC CONNECTION WHERE REQUIRED. REFER TO DOOR HARDWARE SPECIFICATIONS AND ELECTRICAL DRAWINGS FOR ALL ELECTRICAL CONNECTION REQUIREMENTS, ROUGH-INS, AND ADDITIONAL INFORMATION. COORDINATE WITH DOOR HARDWARE SUPPLIER AND ACCESS CONTROL VENDOR.
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D. PROVIDE AND INSTALL SLEEVES, WITH BUSHINGS FOR CABLE PROTECTION, AT ALL LOCATIONS WHERE CABLE MUST PASS THROUGH WALLS AND PARTITIONS. DO NOT ROUTE CABLE THROUGH WALLS WITHOUT SLEEVES. PROPERLY SEAL ALL PENETRATIONS.
E. ALL ENDS OF CONDUIT SHALL BE REAMED AND FITTED WITH BUSHINGS AT BOTH ENDS.
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STATE OF MISSOURI
CHRISTOPHER I. WALLACE
NUMBER
PE-2009005254
PROFESSIONAL ENGINEER
BID SET

PROJECT TITLE

John Knox Village

MEADOWS BUILDING PHASE III

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ARCHITECT	: DAS	CHECKED	: CIW
ENGINEER	: NAD	APPROVED	: CIW

NO.	REVISION DESCRIPTION	DATE

DRAWING TITLE

THIRD, FOURTH, FIFTH TYPICAL FLOOR PLAN - AREA A - LOW VOLTAGE

DATE: 03/13/2026
COMM. NO. 25116.00
DRAWING LV1.3a

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Roanoke, Virginia 24011.2003

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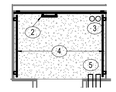
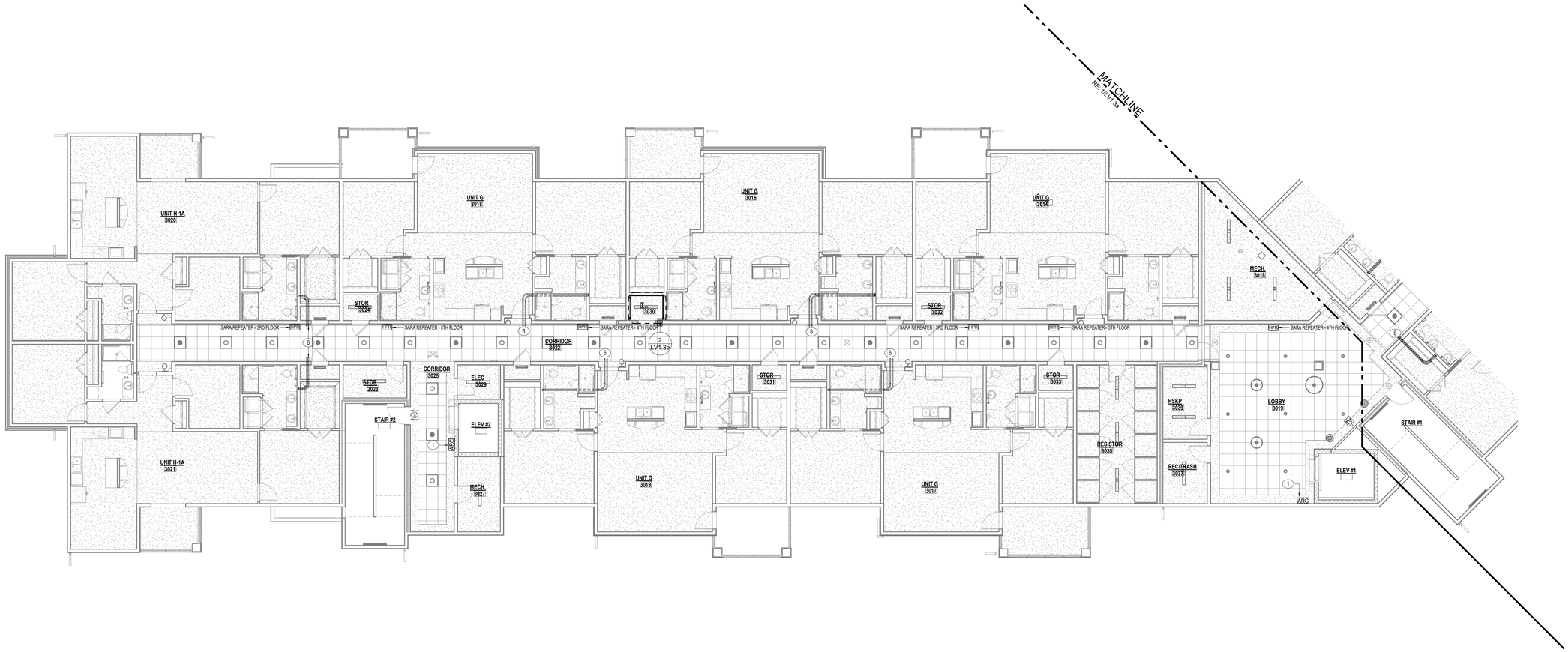


2 ENLARGED TELECOM RM - IT 3030 (4040 & 5050) TYP.

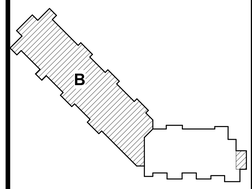
1/4" = 1'-0"



1 THIRD, FOURTH, FIFTH TYPICAL FLOOR PLAN - AREA B - LOW VOLTAGE

LV1.3b 1/8" = 1'-0"

KEYPLAN



PLAN NOTES

1. AREA OF RESCUE TWO-WAY CALLING. CALLS SENT TO CAMPUS SECURITY INITIALLY THEN TO 911 OPERATOR, IF NO RESPONSE. AOR CALLOUT MUST REACH LIVE PERSON, NO RECORDED MESSAGES PERMITTED.
2. TMBG OR TGB GROUND BAR AT 18" AFF.
3. TWO (2) 4"C. SLEEVES ROUTED THROUGH FLOOR/CEILING SPACE ONE FOR SERVICE PROVIDER AND ONE FOR NETWORK CABLE ROUTING. PROVIDE APPROPRIATE SEALANT TO MAINTAIN FLOOR/CEILING RATINGS.
4. COMMUNICATIONS BACKBOARD - PROVIDE 4'-0" X 8'-0" x 3/4" FIRE RATED PLYWOOD SECURED TO WALL, IN LOCATION INDICATED. COORDINATE WITH COMMUNICATIONS SERVICE PROVIDERS FOR DEMARC AREA AND DISTRIBUTION OF THEIR RESPECTIVE HARDWARE AND CABLE.
5. TWO (2) 3" EMT SLEEVES, PROVIDED WITH APPROPRIATE SEALANT TO MAINTAIN WALL RATING.
6. (2) 1-1/4" INNERDUCT EXTENDED, FROM STRUCTURED MEDIA CENTER (SMC) ENCLOSURE, ABOVE CEILING TO ACCESSIBLE CEILING SPACE IN CORRIDOR. PROVIDE PULL STRING IN CONDUITS FROM SMC ENCLOSURE TO STUB OUTS ABOVE CEILING. REFER TO ENLARGED PLANS FOR ADDITIONAL INFORMATION. TYPICAL FOR ALL UNITS ON ALL FLOORS.

GENERAL NOTES

A. DOORS INDICATED WITH A DOOR TAG OR NOTED WITH "A" ARE ACCESS CONTROLLED DOORS. PROVIDE 120VAC CONNECTION WHERE REQUIRED. REFER TO DOOR HARDWARE SPECIFICATIONS AND ELECTRICAL DRAWINGS FOR ALL ELECTRICAL CONNECTION REQUIREMENTS, ROUGH-INS, AND ADDITIONAL INFORMATION. COORDINATE WITH DOOR HARDWARE SUPPLIER AND ACCESS CONTROL VENDOR.
B. CONDUIT, WITH PULL STRING, TO BE PROVIDED ABOVE GWB OR OTHER INACCESSIBLE AREAS FOR LOW VOLTAGE CONTRACTORS USE. PROVIDE HIGH TENSILE PULL CORDS IN ALL CONDUITS.
C. PROVIDE J-HOOK SUPPORTS FOR CABLE ROUTING THROUGHOUT AREAS ABOVE ACCESSIBLE CORRIDOR CEILING SPACE.
D. PROVIDE AND INSTALL SLEEVES, WITH BUSHINGS FOR CABLE PROTECTION, AT ALL LOCATIONS WHERE CABLE MUST PASS THROUGH WALLS AND PARTITIONS. DO NOT ROUTE CABLE THROUGH WALLS WITHOUT SLEEVES. PROPERLY SEAL ALL PENETRATIONS.
E. ALL ENDS OF CONDUIT SHALL BE REAMED AND FITTED WITH BUSHINGS AT BOTH ENDS.
F. COORDINATE WITH OTHER DISCIPLINES THE PROPOSED LOCATIONS FOR ALL LOW VOLTAGE CONDUITS AND SLEEVES PRIOR TO INSTALLATION.
G. ALL CONDUIT AND BACKBOXES TO BE INSTALLED BY ELECTRICAL CONTRACTOR IN ACCORDANCE WITH THE ELECTRICAL SPECIFICATIONS.
H. COORDINATE LOCATIONS OF NETWORK DROPS AT MECHANICAL, ELECTRICAL AND FIRE ALARM EQUIPMENT.
I. ON THE TYPICAL OVERALL FLOOR PLAN LV1.3a & LV1.3b, ONLY THE ROOM NAMES FOR THE 3RD FLOOR ARE SHOWN. THE 4TH AND 5TH FLOOR NAMES WILL REFLECT THE FLOOR NUMBER WITH THE REMAINING NUMBER AS SHOWN ON THE 3RD FLOOR PLANS. EXAMPLE - 4TH FLOOR IT ROOM NUMBER 4030, AND 5TH FLOOR IT ROOM NUMBER 5030. TYPICAL FOR ALL ROOM NAMES.

BID SET

PROJECT TITLE

John Knox Village

MEADOWS BUILDING PHASE III

SFCS Architecture Engineering Planning Interiors

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ARCHITECT	DAS	CHECKED	CIW
ENGINEER	NAD	APPROVED	CIW

NO.	REVISION DESCRIPTION	DATE

DRAWING TITLE

THIRD, FOURTH, FIFTH TYPICAL FLOOR PLAN - AREA B - LOW VOLTAGE

DATE: 03/13/2026

COMM. NO. 25116.00

DRAWING LV1.3b

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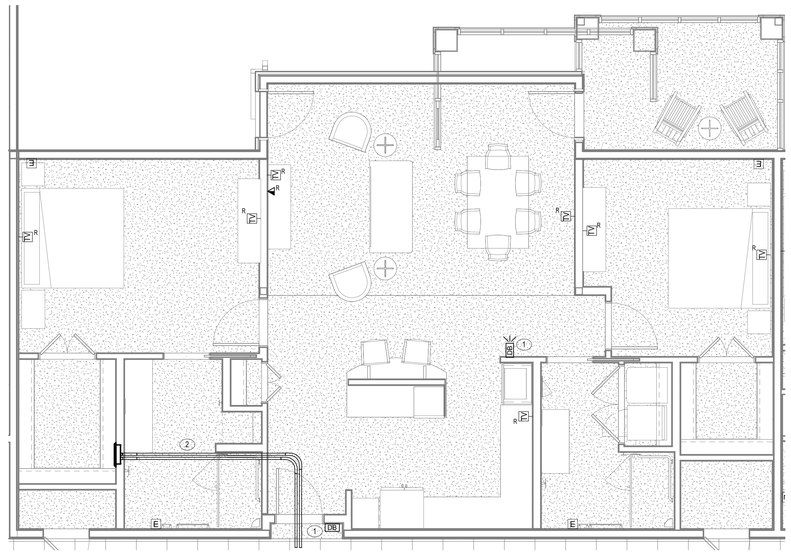
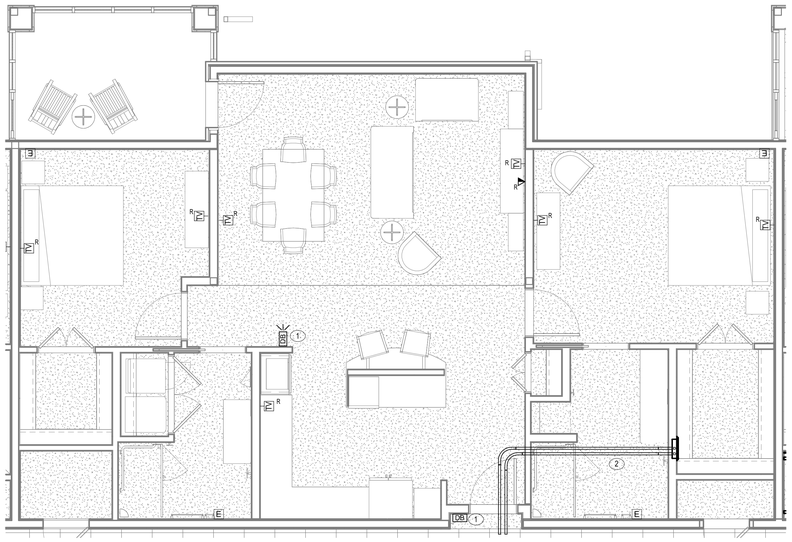


3 LV2.1 UNIT G - THE BROOKSIDE (MIRRORED) - LOW VOLTAGE

1/4" = 1'-0"

2 LV2.1 UNIT D - THE STARLIGHT - LOW VOLTAGE

1/4" = 1'-0"



4 LV2.1 UNIT G - THE BROOKSIDE - LOW VOLTAGE

1/4" = 1'-0"

1 LV2.1 UNIT C - THE MONARCH - LOW VOLTAGE

1/4" = 1'-0"

PLAN NOTES

1 PROVIDE HONEYWELL SERIES 3 PORTABLE WIRELESS DOORBELL SYSTEM WITH PUSHBUTTON AT ENTRY. INSTALL BOTH PUSHBUTTON AND DOORBELL PER MANUFACTURERS REQUIREMENTS, USING BRACKETS, ANCHORS AND SCREWS. PUSHBUTTON AT ENTRY TO BE INSTALLED AT APPROX. 3'-8" AFF, DOORBELL ANNUCIATOR TO BE INSTALLED ON WALL, CLOSE TO ENTRY, AT APPROX. 6'-6" AFF.

2 (2) 1-1/4" INNERDUCT EXTENDED, FROM STRUCTURED MEDIA CENTER (SMC) ENCLOSURE, ABOVE CEILING TO ACCESSIBLE CEILING SPACE IN CORRIDOR. PROVIDE PULL STRING IN CONDUITS FROM SMC ENCLOSURE TO STUB OUTS ABOVE CEILING. TYPICAL FOR ALL UNITS.

GENERAL NOTES

A. COORDINATE ROUTING OF INNERDUCT CONDUIT ABOVE CEILING WITH OTHER DISCIPLINES PRIOR TO BEGINNING WORK.

B. EMERGENCY CALL "E" DEVICE ARE SHOWN FOR REFERENCE ONLY. CALL DEVICES SHALL BE INSTALLED AT 30" AFF UNLESS NOTED OTHERWISE. OWNERS SARA REPRESENTATIVE WILL PROVIDE AND INSTALL SYSTEM AND ALL DEVICES. ELECTRICAL CONTRACTOR SHALL COORDINATE LOCATION OF REPEATER/TRANSMITTER DEVICES THROUGHOUT BUILDING AND PROVIDE A 120V BRANCH CIRCUIT FOR SYSTEM PER MANUFACTURERS RECOMMENDATIONS. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.

C. WHERE THE STRUCTURED MEDIA CABINET (SMC) IS LOCATED WITHIN A SMALLER CLOSET, INSTALL BOTTOM OF SMC AT APPROXIMATELY 2'-0" AFF, SO THAT UNIT SITS BELOW CLOSET SHELF/ROD AND IS CAPABLE OF BEING OPENED FOR MAINTENANCE OR THE ADDITION OF HOME SMART SYSTEM EQUIPMENT. IN OTHER LOCATIONS INSTALL SO THAT BOTTOM OF SMC IS AT 3'-0" AFF.

D. ALL CABLING INSTALLED WITHIN DWELLING UNIT OUTLET LOCATIONS AND STRUCTURED MEDIA CABINET SHALL BE INSTALLED AS FREE-AIR CABLING IN WALL AND CEILING FRAME.

E. PROVIDE AT ALL UNITS HONEYWELL HOME SERIES 3 WIRELESS DOORBELL WITH STROBE & AUDIO ALERT NOTIFIER. WALL MOUNTED WITH HONEYWELL HOME SERIES 3 WIRELESS DOORBELL. BATTERY POWERED. COORDINATE LOCATION OF DEVICES WITH OTHER DISCIPLINES PRIOR TO BEGINNING INSTALLATION.

CHRISTOPHER NAILL WILLIAMS NUMBER PE-2026000254 03/13/2026 STATE OF MISSOURI PROFESSIONAL ENGINEER

BID SET

PROJECT TITLE

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DESIGNER	: DAS	DRAWN	: JDM
ARCHITECT	: DAS	CHECKED	: CIW
ENGINEER	: NAD	APPROVED	: CIW

NO.	REVISION DESCRIPTION	DATE

DRAWING TITLE

ENLARGED UNIT PLANS - LOW VOLTAGE

DATE: 03/13/2026

COMM. NO. 25116.00

DRAWING LV2.1

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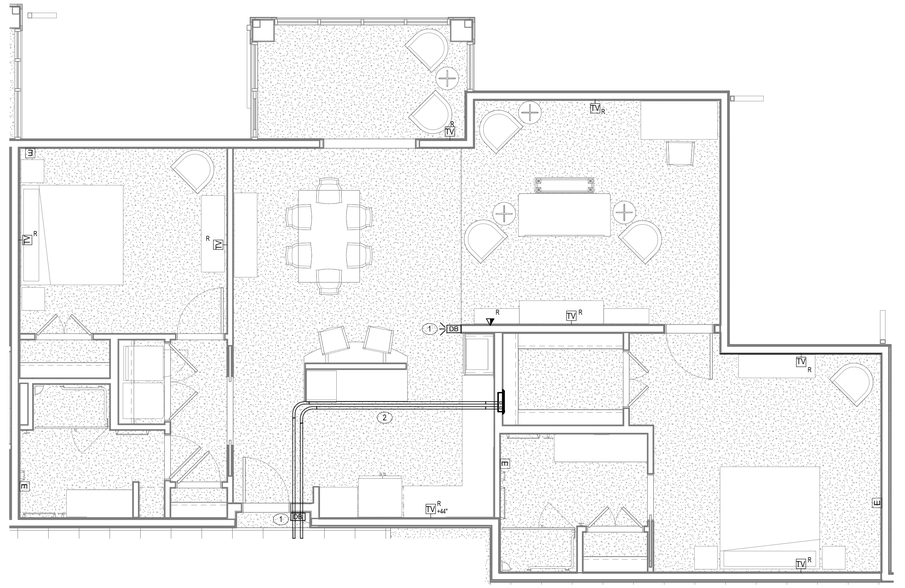
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