CONSTRUCTION DOCUMENTS FOR LENOIR COMMUNITY COLLEGE NEW AVIATION CENTER FOR EXCELENCE

VOLUME 1

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KINSTON, NC

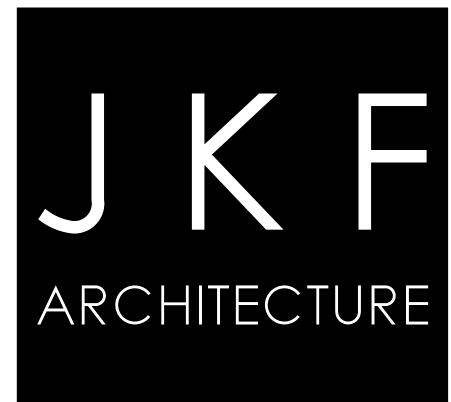
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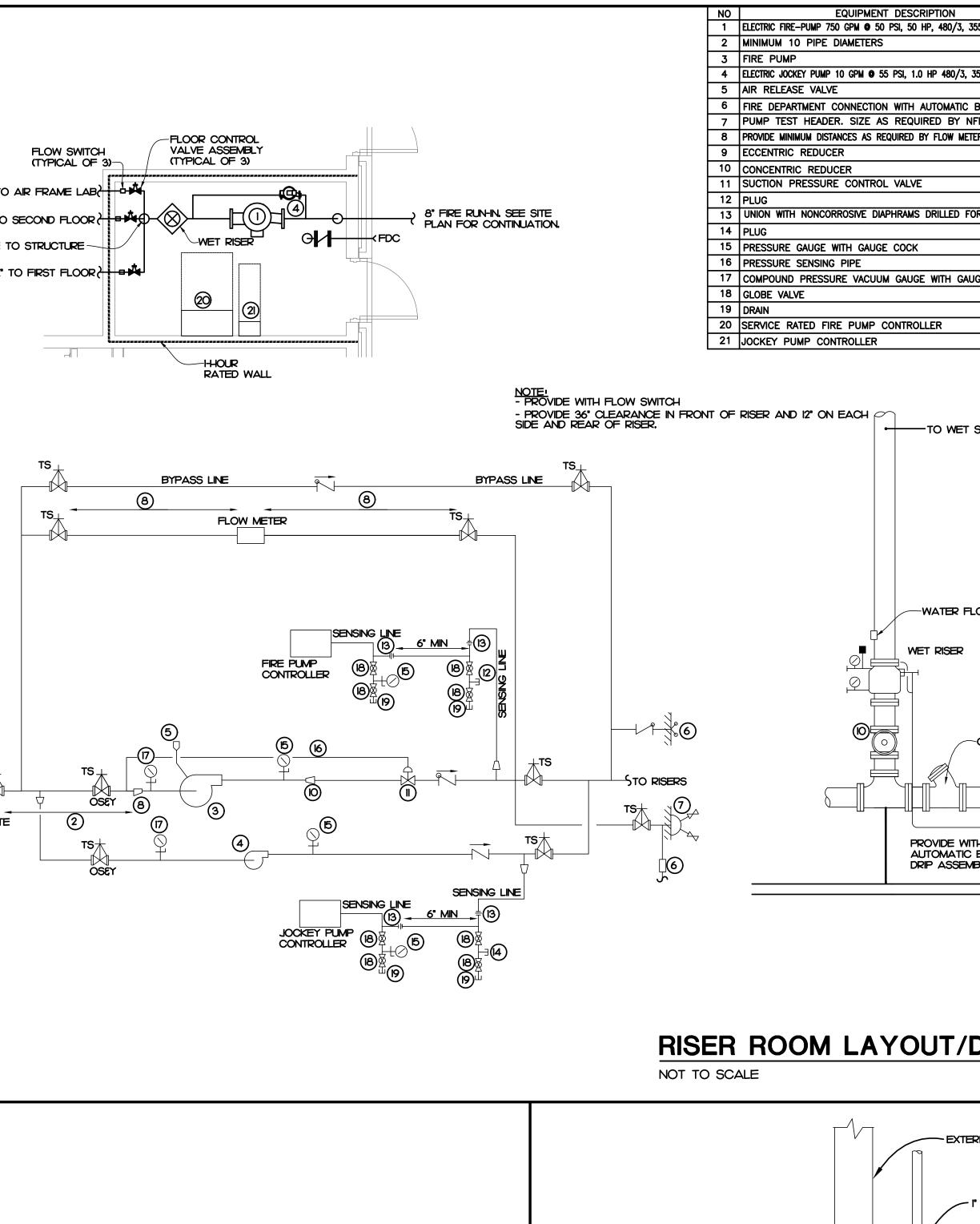
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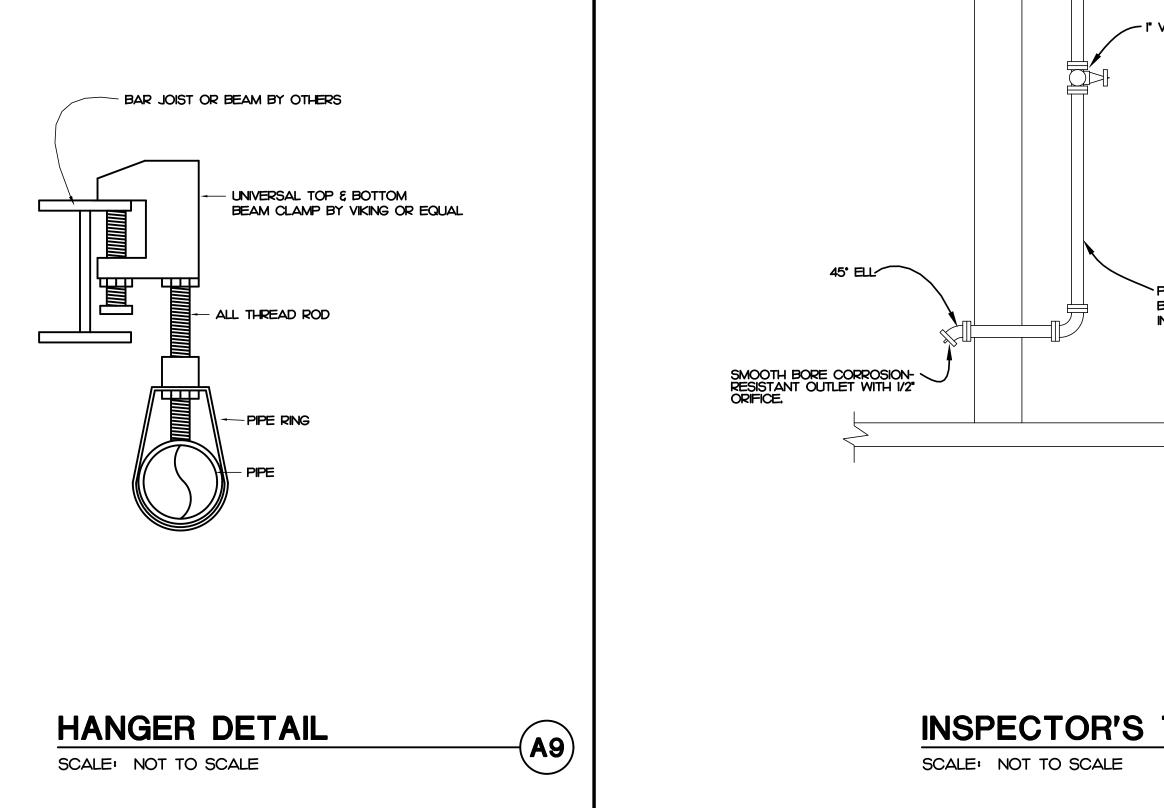
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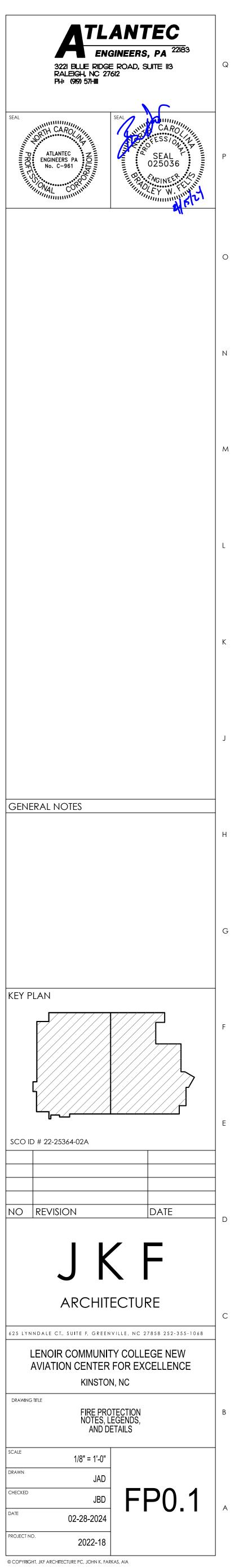
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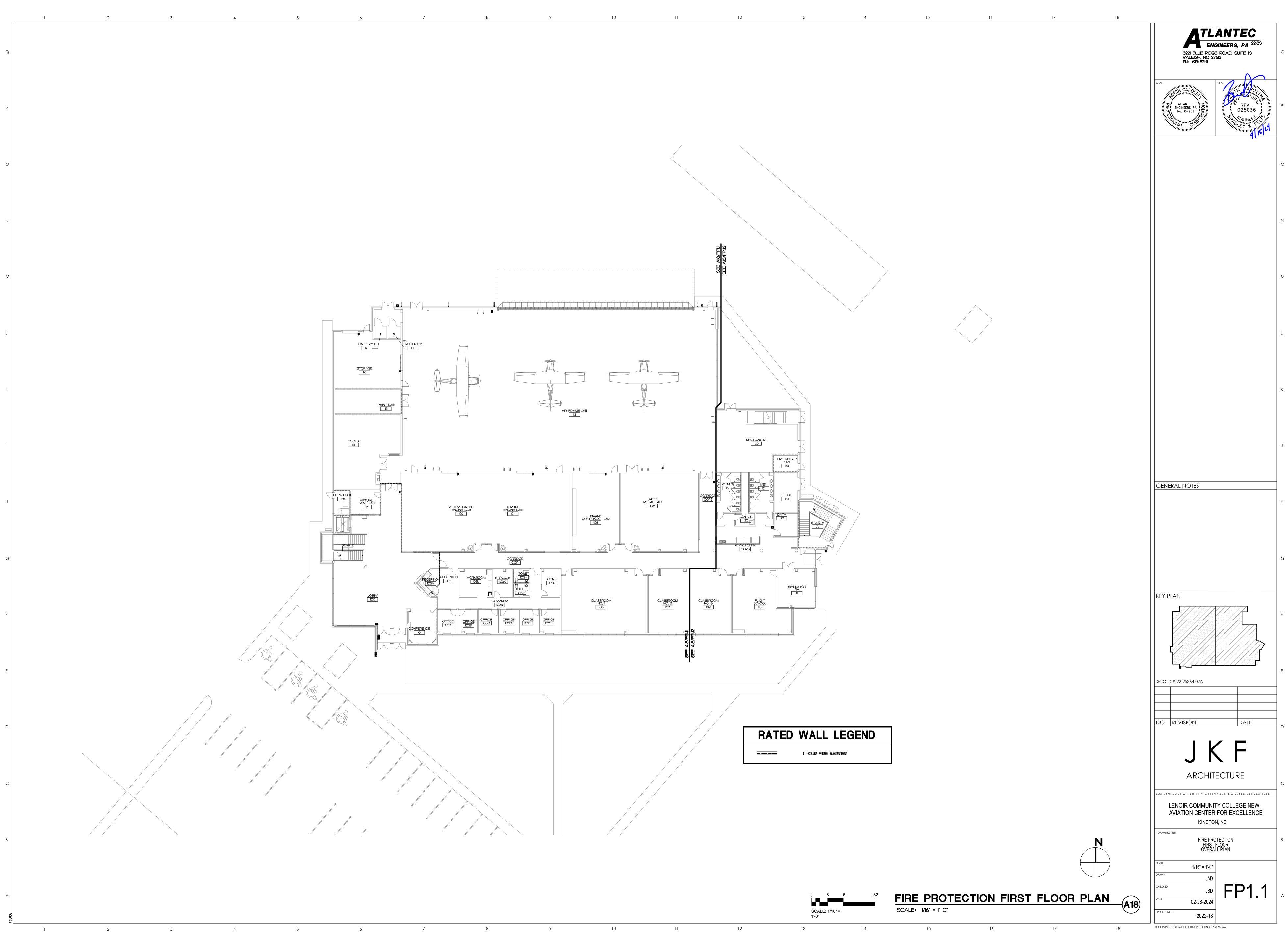
	1 2 3 4	5 6 7 8 9 10	11 12
Q	SPRINKLER DESIGN DATA PROJECT NAME: LENOIR COMMUNITY COLLEGE NEW AVIATION CENTER FOR EXCELLENCE SYSTEM: WET PROJECT STREET ADDRESS: KINSTON, NC SYSTEM SQ. FT.: 57,024 SUITE: FLOOR# 2 CEILING HEIGHT: VARIES		
	DESIGNED BY: ATLANTEC ENGINEERS PHONE 919–571–1111 TOTAL BLDG. HGT: 44'–0' HAZARD ORIDINARY GROUP 2/ LIGHT HAZARD DESIGN SUMMARY		
	SYSTEM #1 SYSTEM #2 SYSTEM #3 SYSTEM # DESIGN METHOD CALC'D CALC'D CALC'D SYSTEM I.D. #		
Р	TYPE OF SYS.WETWETWETHAZARD CLASSORDINARY GP 2ORDINARY GP 2ORDINARY GP 2CRITERIA FROMNFPA 13NFPA 13NFPA 13		
	DESIGN AREA 1500 SQFT 1500 SQFT 1950 SQFT SPACING 130 SQFT 130 SQFT 130 SQFT		
	DENSITY 0.2 0.2 0.2 K-FACTOR 5.6 5.6 5.6 HOSE ALLOWANCE 250 250 250 #SPRINKLERS DESIGN		
0	REQUIREMENTS@		NO EQUIPMENT DESCRIP
	NODE #SAFETY FACTORG.P.M.		1 ELECTRIC FIRE-PUMP 750 GPM 0 50 PSI, 50 HP, 2 MINIMUM 10 PIPE DIAMETERS 3 FIRE PUMP
	P.S.I. WATER SUPPLY INFORMATION TESTED BY CITY OF KINSTON WATER PRODUCTION DEPT. DATE/TIME 4/25/23 4:00 PM PRESSURE HYDRANT		 4 ELECTRIC JOCKEY PUMP 10 GPM © 55 PSI, 1.0 HF 5 AIR RELEASE VALVE 6 FIRE DEPARTMENT CONNECTION WITH AUT
N	TESTED BY OT PRODUCTION DEPT. DATE/TIME 4/25/23 4:00 PM PRESSURE HYDRANT HYDRANT ELEVATION FLOW HYDRANT STATIC STATIC STATIC 55 PSI RESIDUAL 52 PSI FLOW 1188 GPM	FLOOR CONTROL FLOW SWITCH VALVE ASSEMBLY (TYPICAL OF 3) (TYPICAL OF 3)	 7 PUMP TEST HEADER. SIZE AS REQUIRE 8 PROVIDE MINIMUM DISTANCES AS REQUIRED BY 1 9 ECCENTRIC REDUCER
	COPY OF WATER TEST DATA INCLUDED W/CALCS ARE REQUIRED FIRE PUMP DATA RATED G.P.M. 750 RATED PRESSURE 50 DIESEL HP. N/A		10CONCENTRIC REDUCER11SUCTION PRESSURE CONTROL VALVE12PLUG
м	ELECTRIC VOLTS 480/3 BOOST PRESSURE N/A DISCHARGE FLOW N/A RESIDUAL(PSI) N/A FLOW (GPM) N/A COMBINED GPM N/A COMBINED STATIC N/A COMBINED RESIDUAL N/A SUCTION NODE N/A DISCHARGE NODE N/A	X" TO SECOND FLOOR THE PLON FLOOR THE PLON FOR CONTINUATION. RISE TO STRUCTURE WET RISER OF FDC	13 UNION WITH NONCORROSIVE DIAPHRAMS DR 14 PLUG 15 PRESSURE GAUGE WITH GAUGE COCK
	IF STORAGE IS GREATER THAN 12'COMPLETE COMMODITY STORAGE DESIGNINFO. COMMODITY DESCRIPTION N/A STORAGE TYPE(RACK, BIN) N/A		16 PRESSURE SENSING PIPE 17 COMPOUND PRESSURE VACUUM GAUGE W 18 GLOBE VALVE
	STABLE/UNSTABLE N/A OPEN/CLOSE N/A WET/DRY N/A ARRAY SYSTEM FLOURE# CURVE# AREA DENSITY HEIGHT CLEAR ARRAY DRY DESIGN MINIMUM FINAL		19DRAIN20SERVICE RATED FIRE PUMP CONTROLLE21JOCKEY PUMP CONTROLLER
L	INITIAL INITIAL	HHOUR RATED WALL - PROVIDE WITH FLOW SWITC	LL
	SECOND -ARY	- PROVIDE 36" CLEARANCE I SIDE AND REAR OF RISER.	N FRONT OF RISER AND 12" ON EACH
	NOTE: NO STORAGE ABOVE 12' FOR	TSBYPASS LINE BYPASS LINE	
К	NO STORAGE ABOVE 12' FOR CLASS III COMMODITIES, NO MORE THAN 10' FOR CLASS IV COMMODITIES AND NO MORE THAN 5' FOR GROUP A PLASTICS IN LOW PILED STORAGE IN ACCORDANCE WITH NIFPA 13 SECTION 4.3.1.7.1	B TS FLOW METER TS TS TS TS TS TS	
	WITH NFPA 13 SECTION 4.3.1.7.1		
		SENSING LINE	-wa
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			PROV AUTO DRIP
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F			RISER ROOM LAYOU OT TO SCALE
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		BAR JOIST OR BEAM BY OTHERS	
		- UNIVERSAL TOP ξ BOTTOM	
D		BEAM CLAMP BY VIKING OR EQUAL	
С			DTH BORE CORROSION-
		PIPE	
В			
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A		HANGER DETAIL	INSPECTOR
2183		SCALE: NOT TO SCALE	SCALE: NOT TO SCA
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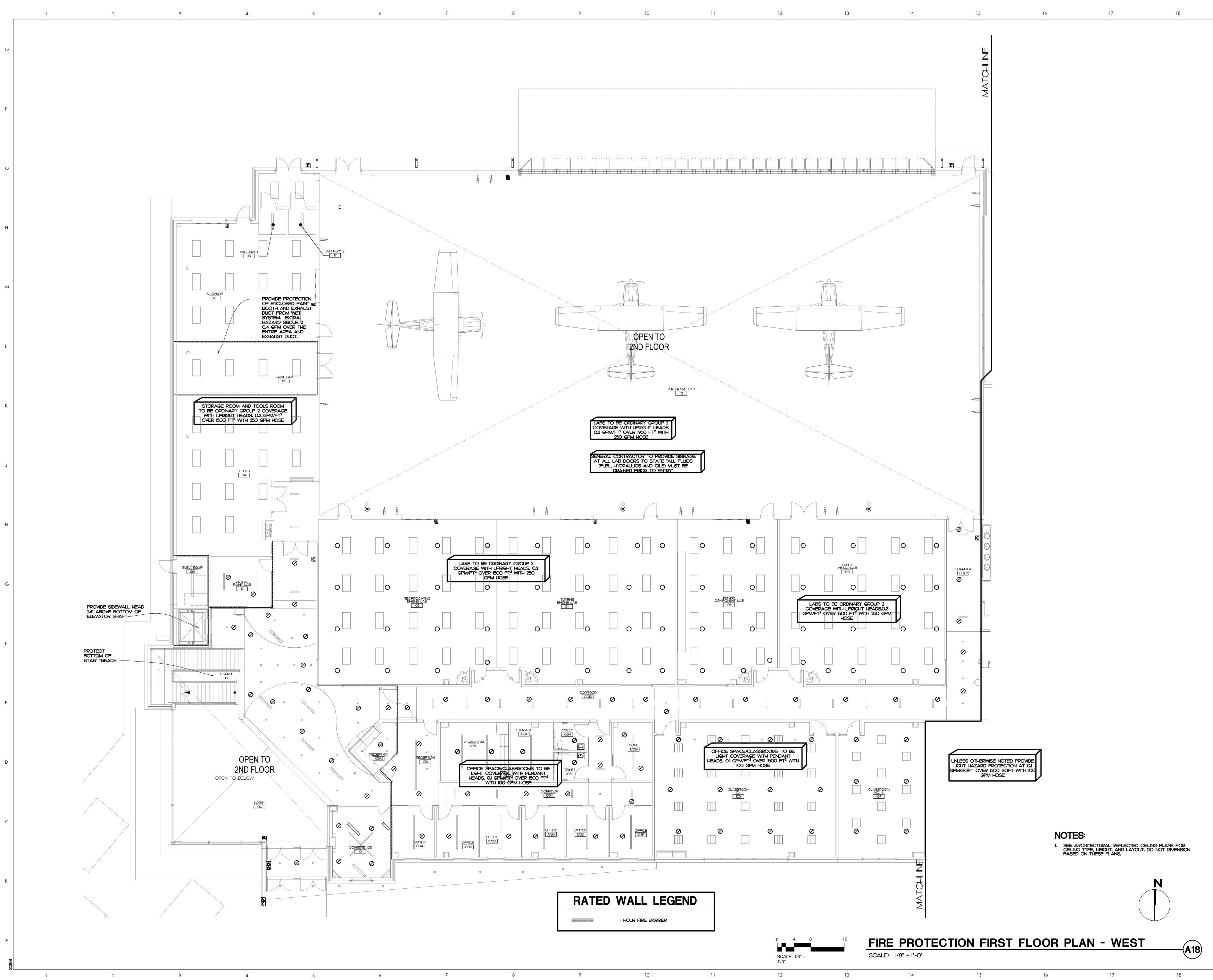


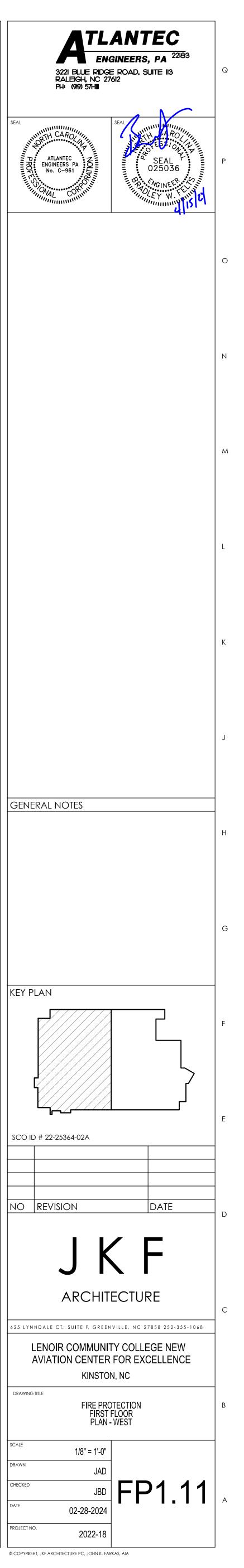


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	GENERAL NOTES
	I. THE SPRINKLER CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES PRIOR TO INSTALLATION. (LIGHTS, PIPES, ETC.).
	2. THE SPRINKLER CONTRACTOR SHALL COORDINATE SHUT-OFF TIMES WITH OWNER.
	 ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL NFPA CODES, 13 & 72. THE SPRINKLER CONTRACTOR SHALL BE A LICENSED SPRINKLER CONTRACTOR.
	5. WIRING FROM ALL TAMPER SWITCHES AND FLOW SWITCHES TO FIRE ALARM PANEL SHALL BE BY THE ELECTRICAL CONTRACTOR.
	 ALL CUTTING AND PATCHING SHALL BE DONE BY THE GENERAL CONTRACTOR UNLESS NOTED OTHERWISE. ALL PIPE UP TO 2" SHALL BE SCHEDULE 40 BLACK STEEL WITH THREADED FITTING, PIPING 2 1/2" AND LARGER SHALL BE SCHEDULE 10 BLACK STEEL WITH ROLLED GROOVE FITTING.
	 ALL HEADS ARE TO BE CENTERED IN TILES UNLESS OTHERWISE NOTED. TESTING SHALL BE THE RESPONSIBILITY OF THE INSTALLING CONTRACTOR. PRESSURE TEST SHALL BE STATIC WATER AT TEST PRESSURE OF 200 PSIG FOR 2 HOURS DURATION WITHOUT LEAK FROM ANY JOINT OR SEGMENT OF THE PIPING SYSTEM FROM ANY EQUIPMENT OR DEVICE.
	10. THE INSTALLING CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE WORK OF OTHER, TO BUILDING AND PROPERTY / MATERIALS OF OTHERS CAUSED BY LEAKS IN SPRINKLER EQUIPMENT, UNPLUGGED OR DISCONNECTED PIPES FOR FITTINGS, AND SHALL PAY FOR NECESSARY REPLACEMENT OR REPAIR OF WORK OR ITEMS SO DAMAGED DURING THE INSTALLATION AND TESTING PERIODS OF THE STANDPIPE WORK.
3550 RPM. SIZE TO BE CONFIRMED WITH SPRINKLER CONTRACTOR.	II. TESTS PER SECTION HI OF NFPA 13 TO BE WITNESSED BY THE OWNERS INSURANCE UNDERWRITER(S), THE INSTALLING CONTRACTOR AND THE ARCHITECT / ENGINEER FIELD INSPECTOR - REPRESENTATIVE, SPRINKLER CONTRACTOR TO SUBMIT 3 COPIES OF NFPA 13-1990 "CONTRACTORS MATERIAL AND TEST CERTIFICATE(S)".
3550 RPM. SIZE TO BE CONFIRMED WITH SPRINKLER CONTRACTOR.	 FLUSH, TEST, AND INSPECT SPRINKLER PIPING SYSTEMS IN ACCORDANCE WITH NFPA 13, REPLACE PIPING SYSTEM COMPONENTS WHICH DO NOT PASS THE TEST PROCEDURES SPECIFIED, AND RETEST REPAIRED PORTION OF THE SYSTEM, THE CONTRACTOR SHALL PROVIDE A UNIT COST TO ADD
BALL DRIP VALVE IFPA 20 TER MANUFACTURER.	ADDITIONAL HEADS REQUIRED IN THE FIELD. 14. THE CONTRACTOR SHALL INCLUDE COST IN CONTRACT TO ADD HEADS REQUIRED IN THE FIELD.
	15. THE G.C. TO PAINT EXPOSED PIPING, COORDINATE ROUTING OF PIPING WITH G.C.
OR 3/32" ORIFICE	COORDINATION DRAWINGS
JGE COCK	THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING COORDINATION DRAWINGS TO
	IDENTIFY AND RESOLVE INSTALLATION OF ALL PIPE, DUCT, EQUIPMENT, CONDUIT, HANGERS, ETC. NECESSARY FOR COMPLETE AND OPERATIONAL PLUMBING, MECHANICAL, FIRE PROTECTION, ELECTRICAL, AND FIRE ALARM SYSTEMS SHOWN ON THESE DRAWINGS, CONTRACTOR SHALL INCLUDE WEEKLY MEETING TO FACILITATE THE PRODUCTION OF COORDINATION DRAWINGS, IT SHALL BE THE GENERAL CONTRACTOR'S RESPONSIBILITY THAT ALL TRADES PARTICIPATE IN PREPARATION OF COORDINATION DRAWINGS AND THE INSTALLATION OF WORK IN ACCORDANCE WITH DRAWINGS. SEE SPECIFICATION SECTION 013100.
	DESIGN SUMMARY
SYSTEM	THE FIRE SPRINKLER CONTRACTOR (FSC) SHALL PROVIDE A COMPLETE DESIGN IN ACCORDANCE WITH NFPA 13 FOR ORDINARY GROUP 2 COVERAGE, THE DESIGN SHALL BE A HYDRAULIC CALCULATION METHOD GENERATED BY A FIRE SPRINKLER COMPUTER PROGRAM, THE DESIGN SHALL BE PREFORMED BY A NICET LEVEL III TECHNICIAN OR A PROFESSIONAL ENGINEER EXPERIENCED IN FIRE SPRINKLER DESIGN, ALL DRAWINGS AND CALCULATIONS SHALL BE SUBMITTED ALONG WITH THE SPRINKLER EQUIPMENT AND MATERIALS TO THE PROJECT ENGINEER OF RECORD FOR REVIEW.
	THE FOLLOWING SPECIFIC REQUIREMENTS SHALL BE INCORPORATED INTO THE DESIGN OF THE SYSTEM ¹ I. FIRE MAIN FROM THE TAP AT THE UTILITY SYSTEM WATER MAIN INTO THE BUILDING TO ONE FOOT ABOVE FINISHED FLOOR AT THE DESIGNATED RISER LOCATION SHALL BE INSTALLED BY THE SITE UTILITY CONTRACTOR. 2. SPRINKLER HEADS SHALL BE CENTERED IN ALL LAY-IN CEILING TILES.
LOW SWITCH	3. SPRINKLER HEADS IN LAY-IN AND SHEET ROCK CEILINGS SHALL BE CONCEALED TYPE, COORDINATE COLOR OF COVER PLATE WITH ARCHITECT TO MATCH SURROUNDING COLOR OF CEILING,
	4, FIRE DEPARTMENT CONNECTION TO BE LOCATED ON BUILDING, COORDINATE EXACT LOCATION WITH LOCAL FIRE DEPARTMENT.
	5. FLOW TEST FOR PRICING IS AS FOLLOWS. CONTRACTOR SHALL PROVIDE NEW FLOW TEST FOR DESIGN. PER SCO GUIDELINES REDUCE STATIC AND RESIDUAL PRESSURE BY 10 PSI AND FLOW BY 10% FOR DESIGN OF SPRINKLER SYSTEM.
	 SPRINKLER SYSTEM DESIGN SHALL INCLUDE SEISMIC RESTRAINTS IN ACCORDANCE WITH NFPA 13 FOR SEISMIC SITE CLASS OF C. PROVIDE SUBMITTAL SHOWING CALCULATIONS AND LOCATION OF ALL RESTRAINTS WITH SUBMITTAL DATA. PROVIDE SUPPRESSION FOR DUST COLLECTION SYSTEM TO INCLUDE WATER SUPPLY FOR NOZZLE IN DUCT AND
-CHECK VALVE	COLLECTOR. 8. SEE ARCHITECTURAL, SITE, STRUCTURAL, MECHANICAL, ELECTRICAL AND PLUMBING PLANS FOR ALL SECTIONS,
	ELEVATIONS AND OTHER TRADES FOR COORDINATION. IT IS THE SPRINKLER CONTRACTOR'S RESPONSIBILITY TO COORDINATE PIPE ROUTING AND HEAD PLACEMENT WITH OTHER TRADES AND PROVIDE CLEARANCE IN FRONT OF ELECTRICAL EQUIPMENT AND MECHANICAL EQUIPMENT. COSTS ASSOCIATED WITH CONFLICTS WILL BE THE CONTRACTORS RESPONSIBILITY,
FDC. VERIFY FDC CONNECTION WITH LOCAL AUTHORITY	FLOW TEST:
TH BALL MBLY	STATIC: 55 PSI RESIDUAL: 52 PSI FLOW: 1188 GPM
	TEST DATE: 04/25/2023
	FIRE FLOW ANALYSIS
	PER 2018 NC FIRE CODE APPENDIX B:
	BUILDING AREA 57,024 SQFT TYPE II-B CONSTRUCTION
	PER TABLE BIO5.1(2) THE FIRE FLOW REQUIRED IS 5000 GPM REDUCED TO 25% OF THIS PER TABLE BIO5.2 SINCE THE BUILDING IS PROTECTED BY NFPA 13 SYSTEM. FIRE FLOW REQUIRED IS 1250 GPM. FLOW TEST PROVIDED SHOWS STATIC PRESSURE OF 55 PSI, RESIDUAL PRESSURE OF 52 PSI FLOWING 1188 GPM, THIS YIELDS A FLOW IN EXCESS OF 1250 GPM AT
	20 PSI.
RIOR WALL	
" VALVE TYPICAL	
	BRANCH LINE AT STRUCTURE
PROVIDE 48° OF PIPE BETWEEN VALVE AND WALL	
INSIDE HEATED ENVELOPE	
	NEW PENDENTH IN LAY-IN CEILING
TEST DETAIL	SCALE: NOT TO SCALE
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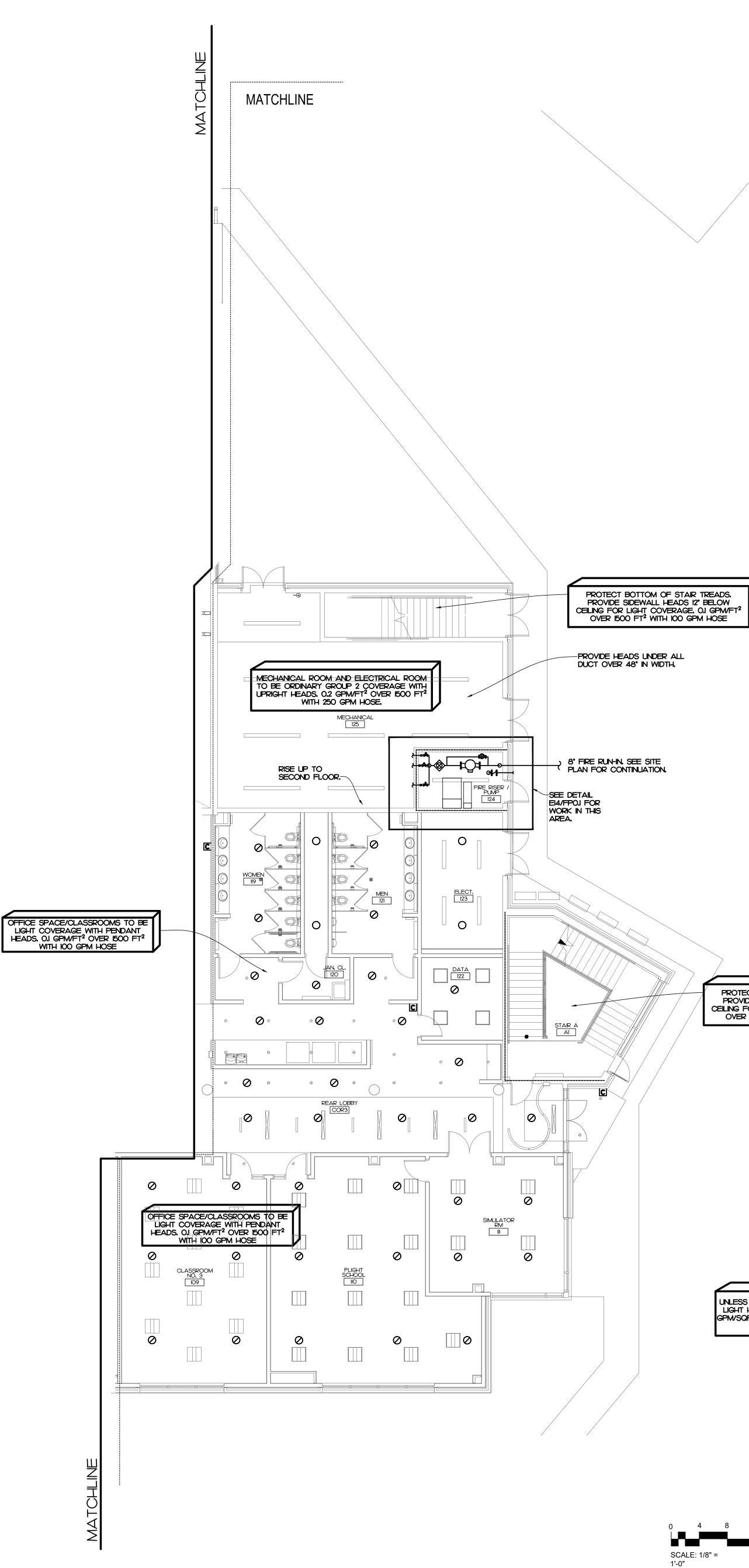




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PROTECT BOTTOM OF STAIR TREADS. PROVIDE SIDEWALL HEADS 12" BELOW CEILING FOR LIGHT COVERAGE. O.I GPM/FT² OVER 1500 FT² WITH 100 GPM HOSE

UNLESS OTHERWISE NOTED PROVIDE LIGHT HAZARD PROTECTION AT O.I GPM/SQFT OVER 1500 SQFT WITH 100 GPM HOSE

NOTES: 1. SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR CEILING TYPE, HEIGHT, AND LAYOUT. DO NOT DIMENSION BASED ON THESE PLANS.

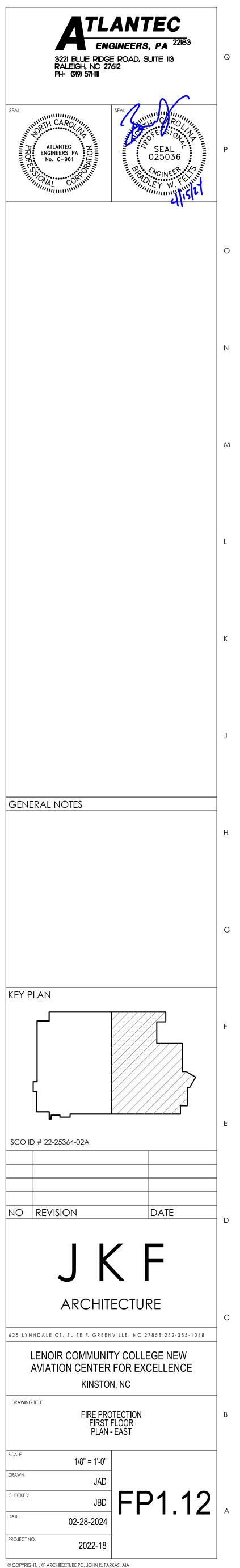
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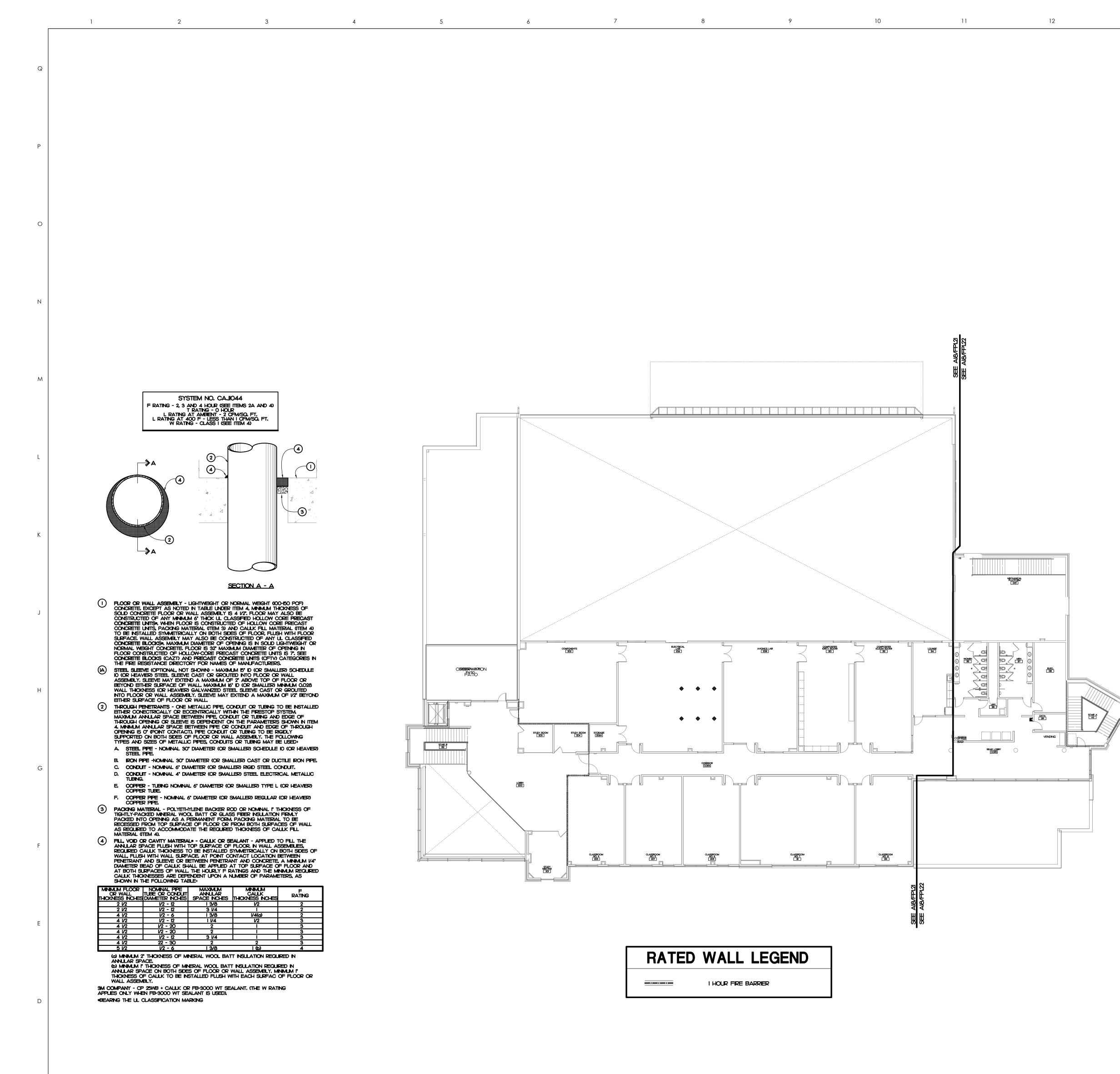


FIRE PROTECTION FIRST FLOOR PLAN - EAST

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

-**A18**





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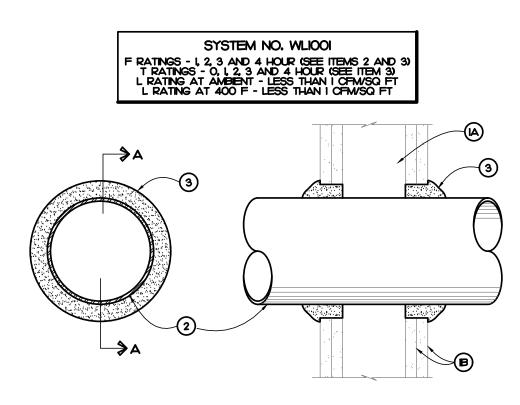
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SECTION A - A

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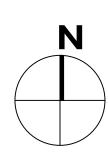
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WALL ASSEMBLY - THE 1, 2, 3 OR 4 HOUR FIRE-RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U300 OR U400 SERIES WALL OR PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:

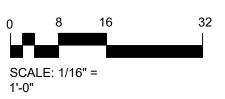
- A. STUDS WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS (MAXIMUM 2 HOUR FIRE RATED ASSEMBLIES) OR STEEL CHANNEL STUDS, WOOD STUDS TO CONSIST OF NOMINAL 2" x 4" LUMBER SPACED 16" ON CENTER WITH NOMINAL 2" x 4" LUMBER END PLATES AND CROSS BRACES, STEEL STUDS TO BE MINIMUM 3 5/6" WIDE x 1 3/6" DEEP CHANNELS SPACED MAXIMUM 24" ON CENTED
- CENTER. B. GYPSUM BOARD. - NOMINAL 1/2" OR 5/8" THICK, 4" WIDE WITH SQUARE OR TAPERED EDGES. THE GYPSUM WALLBOARD TYPE, THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY. MAXIMUM DIAMETER OF OPENING IS 26".
- DIRECTORT. MAXIMUM DIAVETER OF OPENING IS 20.
 THROUGH PENETRANT ONE METALLIC PIPE, CONDUIT OR TUBING INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. THE ANNULAR SPACE BETWEEN PIPE, CONDUIT OR TUBING AND PERPHERY OF OPENING SHALL BE MINIMUM OF 0° (POINT CONTACT) TO MAXIMUM 2° 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 NOMINAL 24" DIAMETER (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE.
- B. RON PIPE NOMINAL 24" DIAMETER (OR SMALLER) SERVICE WEIGHT (OR HEAVER) CAST IRON SOIL PIPE, NOMINAL 12" DIAMETER (OR SMALLER) OR CLASS 50 (OR HEAVER) DUCTILE IRON PRESSURE PIPE.
- C. CONDUIT NOMINAL 6° DIAMETER (OR SMALLER) STEEL CONDUIT OR NOMINAL 4° DIAMETER (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING,
- D. COPPER TUBING NOMINAL 6" DIAMETER (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING.
 E. COPPER PIPE - NOMINAL 6" DIAMETER (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.
- F. THROUGH PENETRATING PRODUCT. FLEXELE METAL PIPING THE FOLLOWING TYPES OF STEEL FLEXIBLE METAL GAS PIPING MAY BE USED: 1. NOMINAL 2" DIAMETER (OR SMALLER) STEEL FLEXIBLE METAL GAS PIPING
- NOMINAL 2" DIAMETER (OR SMALLER) STEEL FLEXIBLE METAL GAS PIPING. PLASTIC COVERING ON PIPING MAY OR MAY NOT BE REMOVED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. OMEGA FLEX INC
 NOMINAL " DIAMETER (OR SMALLER) STEEL FLEXIBLE METAL GAS PIPING.
- 2. NOMINAL I DIAMETER (OR SMALLER) STEEL FLEXIBLE METAL GAS PIPING, PLASTIC COVERING ON PIPING MAY OR MAY NOT BE REMOVED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY, TITEFLEX CORP A BUNDY CO
- 3. NOMINAL I' DIAMETER (OR SMALLER) STEEL FEXIBLE METAL GAS PIPING, PLASTIC COVERING ON PIPING MAY OR MAY NOT BE REMOVED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. WARD MFG INC
- WARD MFG NC 3 FILL, VOID OR CAVITY MATERIAL® - CALLK OR SEALANT - MINIMUM 5/8", I //4", I 7/8" AND 2 //2" THICKNESS OF CALLK FOR I, 2, 3 AND 4 HOUR RATED ASSEMBLIES, RESPECTIVELY, APPLED WITHIN ANNLLLS, FLUSH WITH BOTH SURFACES OF WALL, MINIMUM //4" DIAMETER BEAD OF CALLK APPLED TO GYPSUM BOARD/PENETRANT NITERFACE AT POINT CONTACT LOCATION ON BOTH SIDES OF WALL, THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE HOURLY FIRE RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS SHOWN IN THE FOLLOWING TABLE, THE HOURLY T RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE TYPE OR SIZE OF THE PIPE OR CONDUIT AND THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS TABULATED BELOW:

MAXIMUM PIPE OR CONDUIT DIAMETER INCHES	F RATING HOUR	T RATING HOUR
1	I OR 2	O+, I OR 2
	3 OR 4	3 OR 4
4	I OR 2	0
6	3 OR 4	0
12	I OR 2	0

+WHEN COPPER PIPE IS USED, T RATING IS O HOUR. 3M COMPANY - CP 25WB+ CAULK OR FB-3000 WT SEALANT. •BEARING THE UL CLASSIFICATION MARKING



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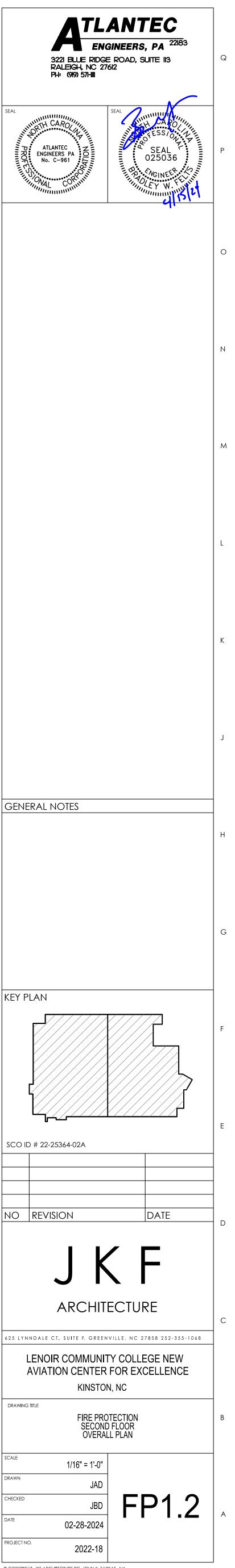
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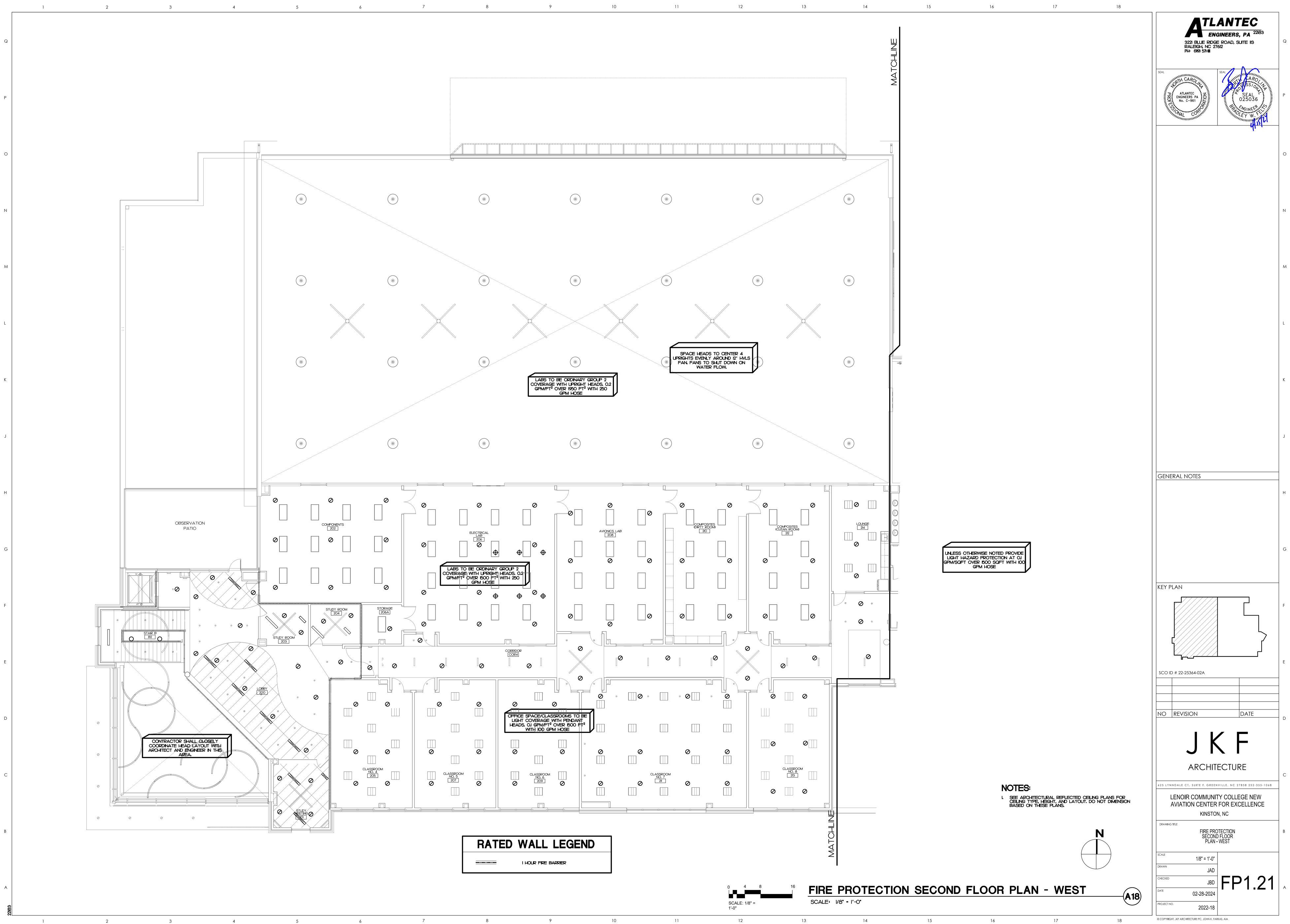
FIRE PROTECTION SECOND FLOOR PLAN (A18)

SCALE: 1/16" = 1'-0"

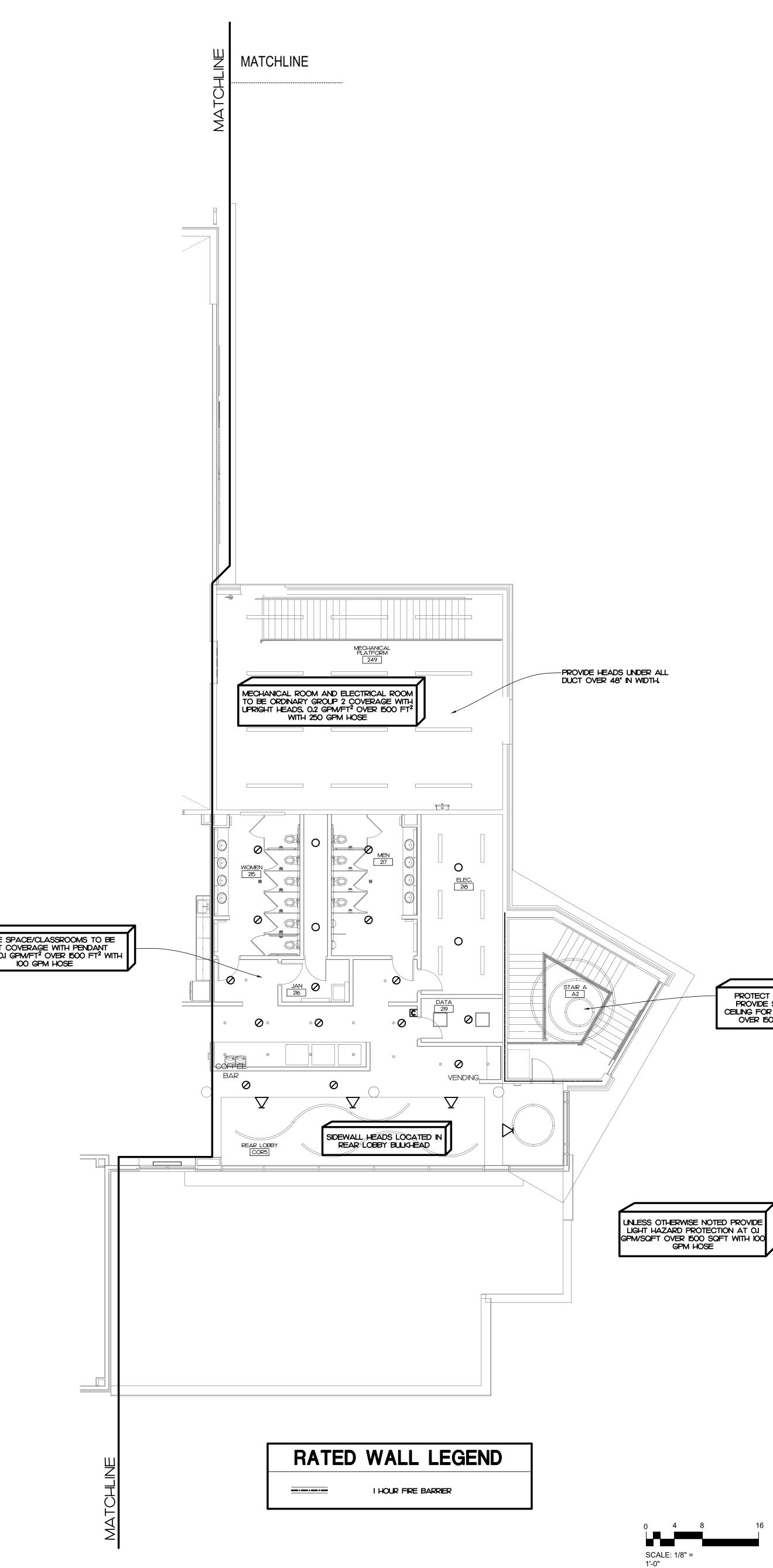
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G						OFFICE SPACE/CLASSROOM LIGHT COVERAGE WITH PE HEADS. O.I GPM/FT ² OVER 1500 100 GPM HOSE	IS TO BE NDANT
						IOO GPM HOSE	
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PROTECT BOTTOM OF STAIR TREADS. PROVIDE SIDEWALL HEADS 12" BELOW CEILING FOR LIGHT COVERAGE. O.I GPM/FT² OVER 1500 FT² WITH 100 GPM HOSE

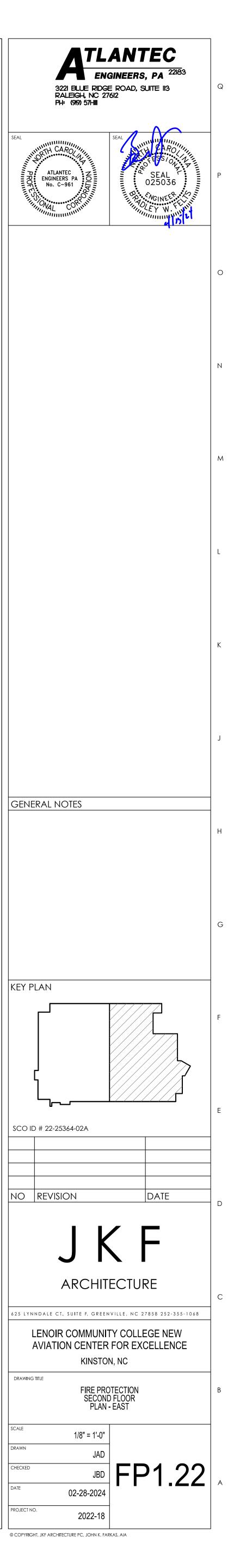
NOTES: I. SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR CEILING TYPE, HEIGHT, AND LAYOUT. DO NOT DIMENSION BASED ON THESE PLANS.

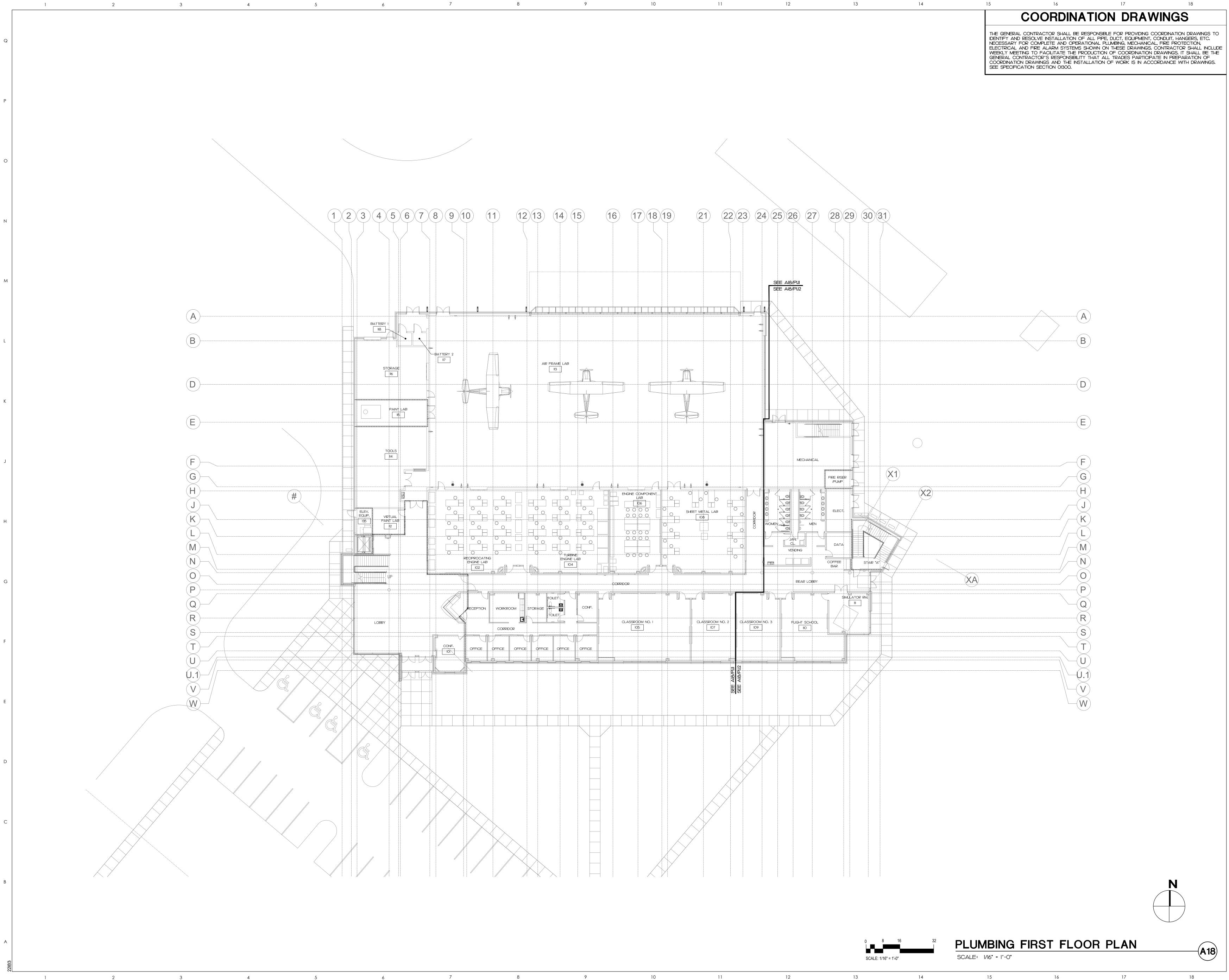
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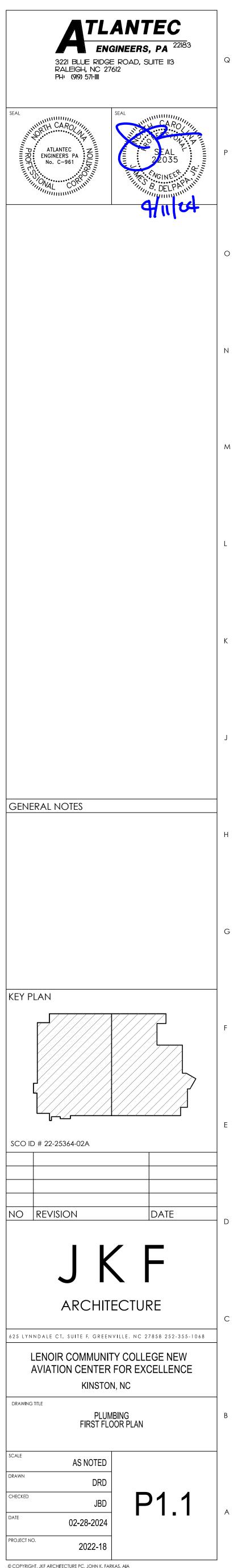
-A18

FIRE PROTECTION SECOND FLOOR PLAN - EAST

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

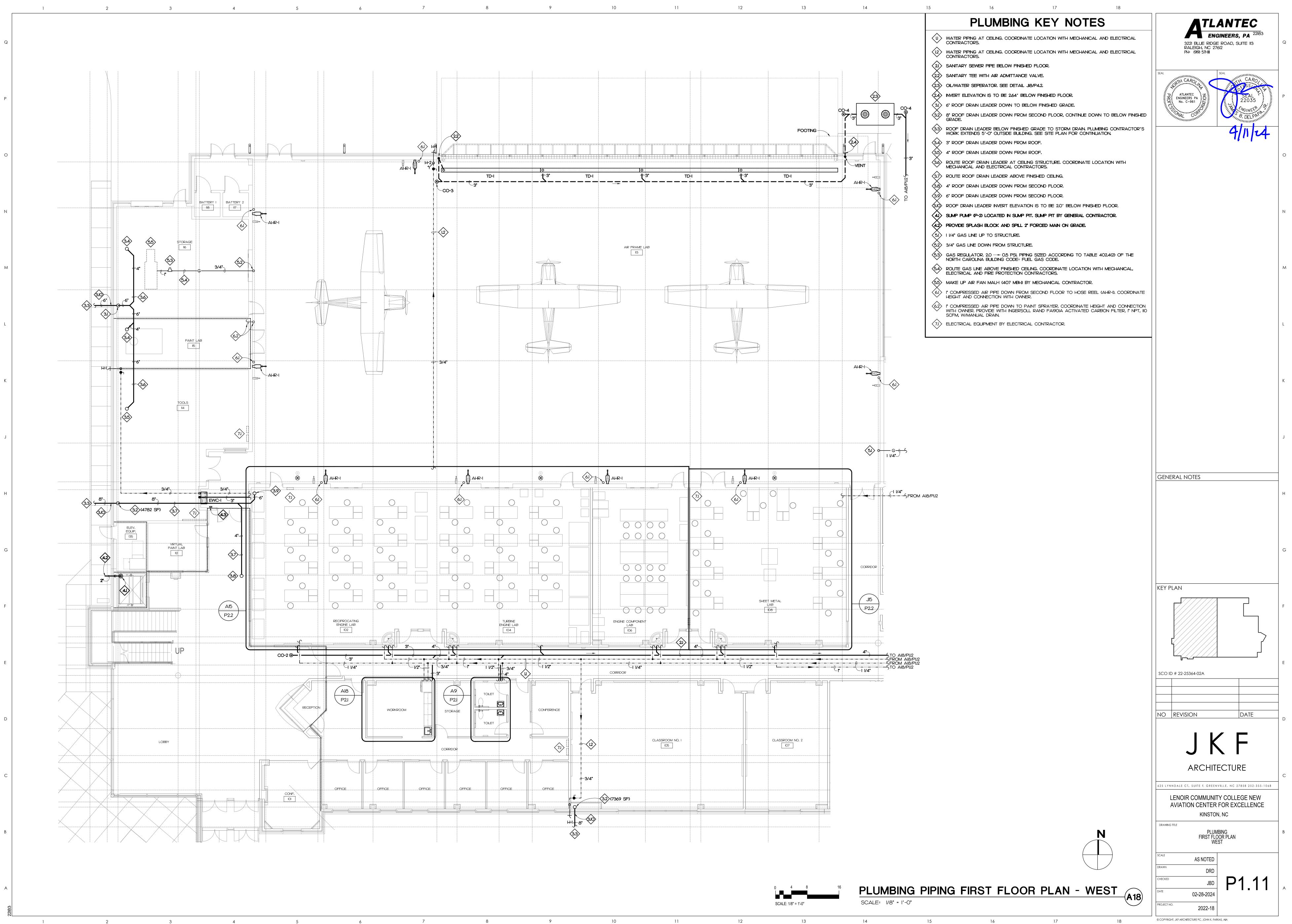


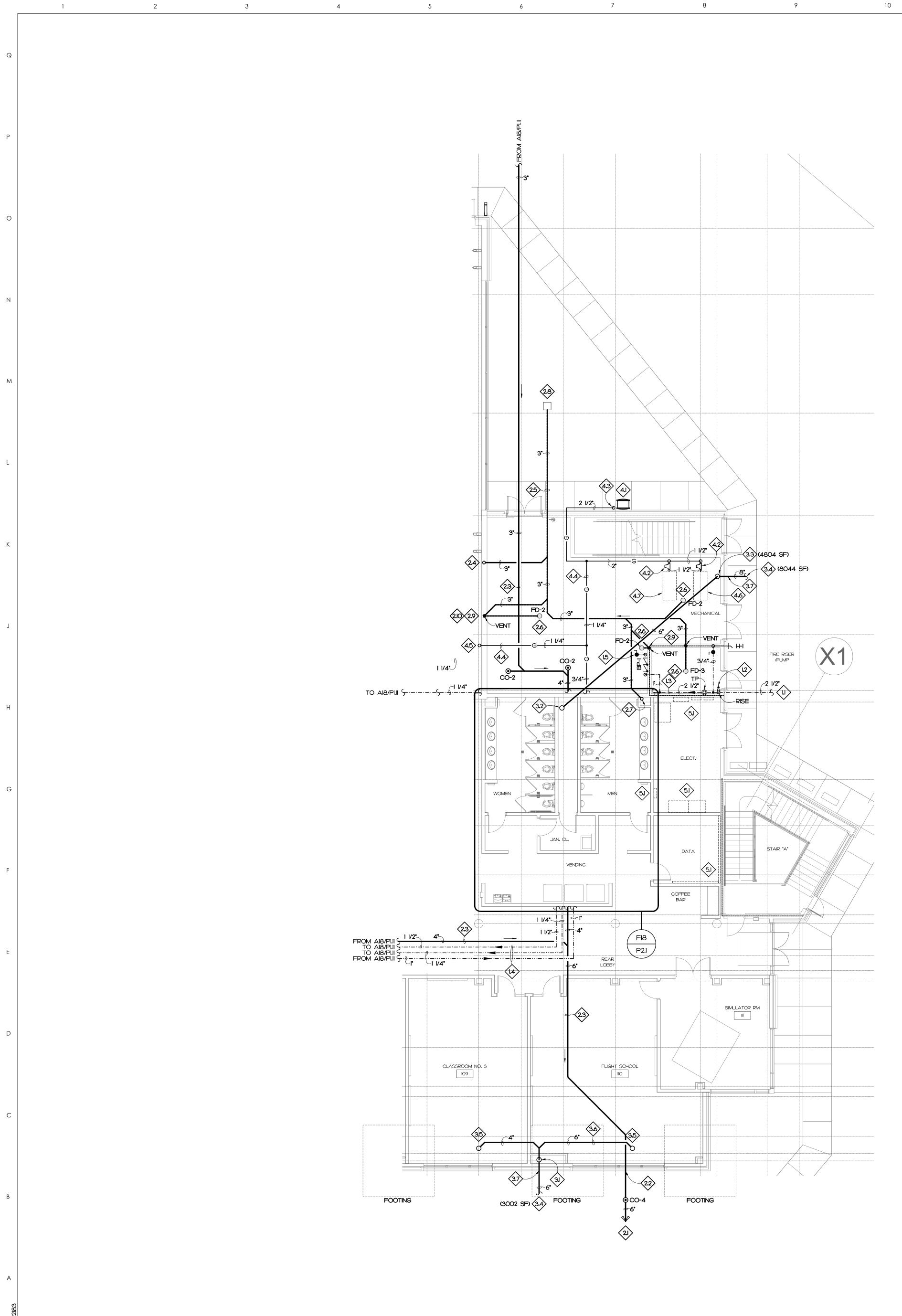




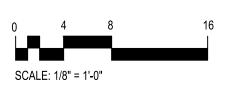
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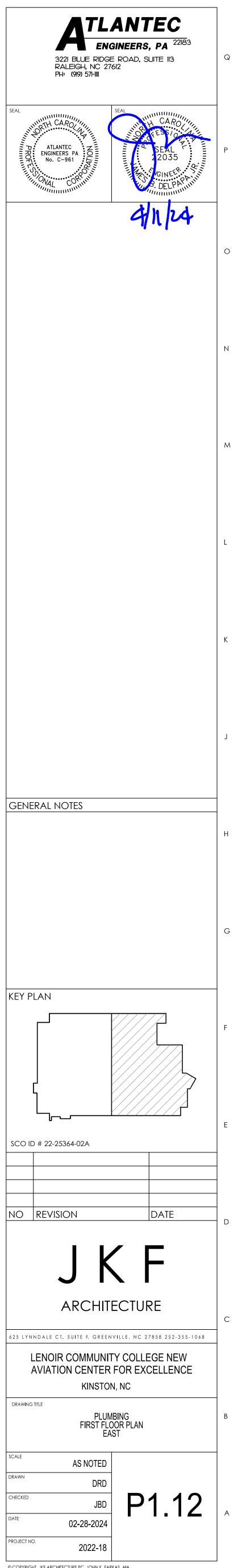




15	16	17	18
	PLUMBING	KEY N	IOTES
(LI)	2 1/2" COLD WATER PIPE BELOW FINISHE 5'-0" OUTSIDE BUILDING, SEE SITE PLAN PREVENTOR,		
	MAIN SHUT OFF VALVE.		
1.3	WATER PIPING AT CEILING, COORDINATE CONTRACTORS.	E LOCATION WITH I	MECHANICAL AND ELECTRICAL
	WATER PIPING ABOVE FINISHED CEILING ELECTRICAL CONTRACTORS.	. COORDINATE LOC	CATION WITH MECHANICAL AND
	PROVIDE I" WATER FOR MAKE UP WATE CONTRACTOR.	ER ASSEMBLY, COO	ORDINATE WITH MECHANICAL
	6" SANITARY SEWER PIPE BELOW FINISH EXTENDS 5'-0" OUTSIDE BUILDING. SEE S		
2.2	INVERT ELEVATION IS TO BE 4.17' BELOW	V FINISHED FLOOR	
23	SANITARY SEWER PIPE BELOW FINISHED	FLOOR.	
	3" WASTE DOWN FROM SECOND FLOOR	2.	
25	ROUTE 3" CONDENSATE PIPING TO CAT	CH BASIN. MAKE C	ONNECTION AS REQUIRED.
2.6	PROVIDE WITH TRAP PRIMER.		
2.7	3" CONDENSATE DOWN FROM SECOND	FLOOR.	
2.8	YARD INLET BY OTHERS.		
2.9	SANITARY TEE.		
2.10	AIR ADMITTANCE VALVE.		
3.1	6" ROOF DRAIN LEADER DOWN TO BELC	OW FINISHED GRAD	E.
3.2	6" ROOF DRAIN LEADER DOWN FROM S	ECOND FLOOR. RC	UTE ABOVE FINISHED CEILING.
3.3	8" ROOF DRAIN LEADER DOWN FROM S GRADE,	ECOND FLOOR, CO	ONTINUE DOWN TO BELOW FINISHED
3.4	ROOF DRAIN LEADER BELOW FINISHED WORK EXTENDS 5'-0" OUTSIDE BUILDING		
3.5	3" ROOF DRAIN LEADER DOWN FROM R	OOF.	
3.6	ROUTE ROOF DRAIN LEADER AT CEILING MECHANICAL AND ELECTRICAL CONTRA		ORDINATE LOCATION WITH
3.7	ROOF DRAIN LEADER INVERT ELEVATION	N IS TO BE 2.0' BE	LOW FINISHED FLOOR.
	GAS METER BY OTHERS, 5405 MBH • 2, THE NORTH CAROLINA BUILDING CODE:		IG SIZED ACCORING TO 402.4(3) OF
4.2	GAS REGULATOR, 2.0 0.5 PSI, PIPING CAROLINA BUILDING CODE: FUEL GAS (G TO TABLE 402.4(2) OF THE NORTH
4.3	ROUTE GAS LINE UP ON WALL.		
	ROUTE GAS LINE ABOVE FINISHED CEILI ELECTRICAL AND FIRE PROTECTION CO		OCATION WITH MECHANICAL,
	I 1/4" GAS LINE UP TO STRUCTURE.		
4.6	BOILER B-I (1999 MBH) BY MECHANICAL (CONTRACTOR.	
4.7	BOILER B-2 (1999 MBH) BY MECHANICAL	CONTRACTOR.	
5,1	ELECTRICAL EQUIPMENT BY ELECTRICAL	- CONTRACTOR.	

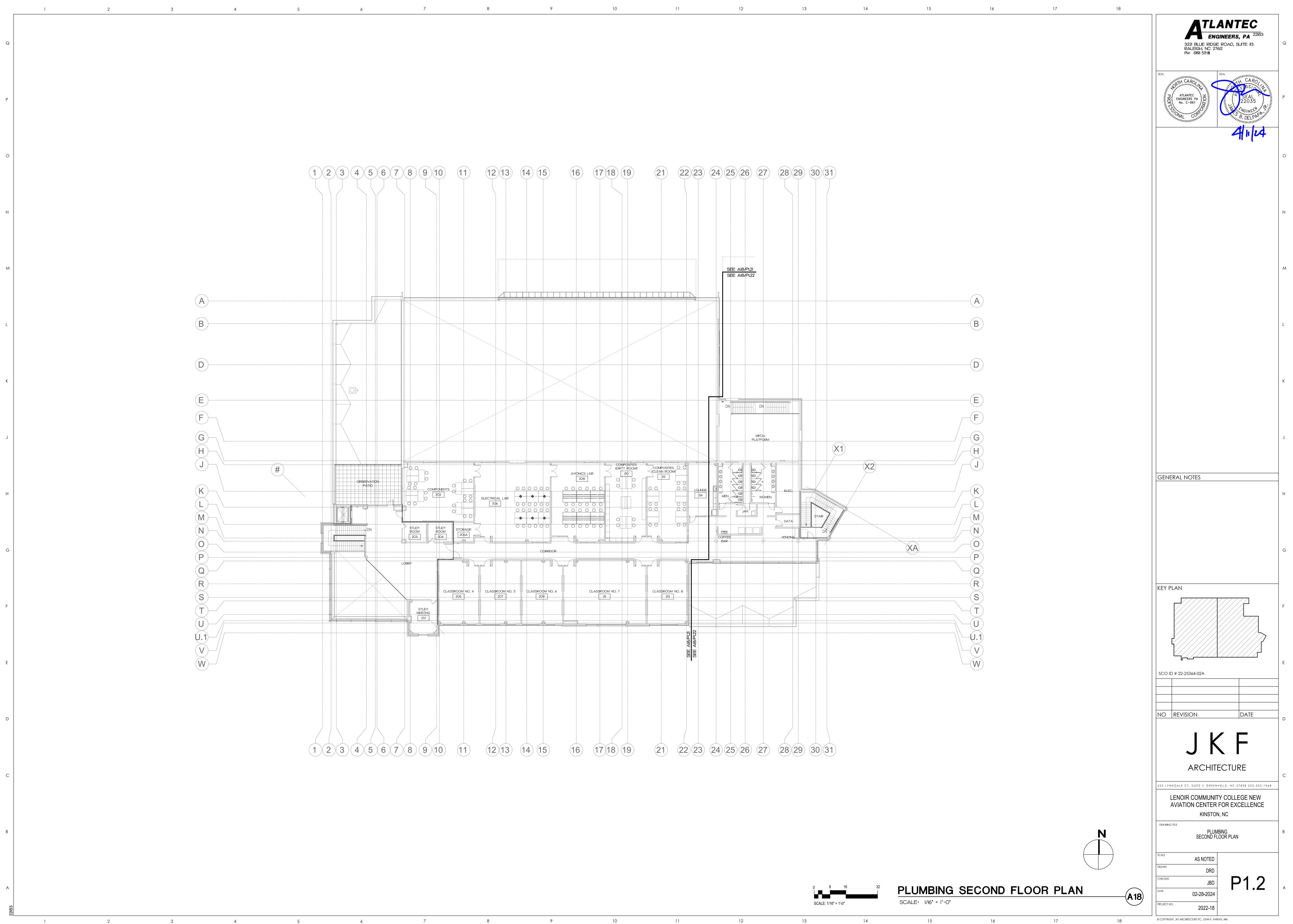


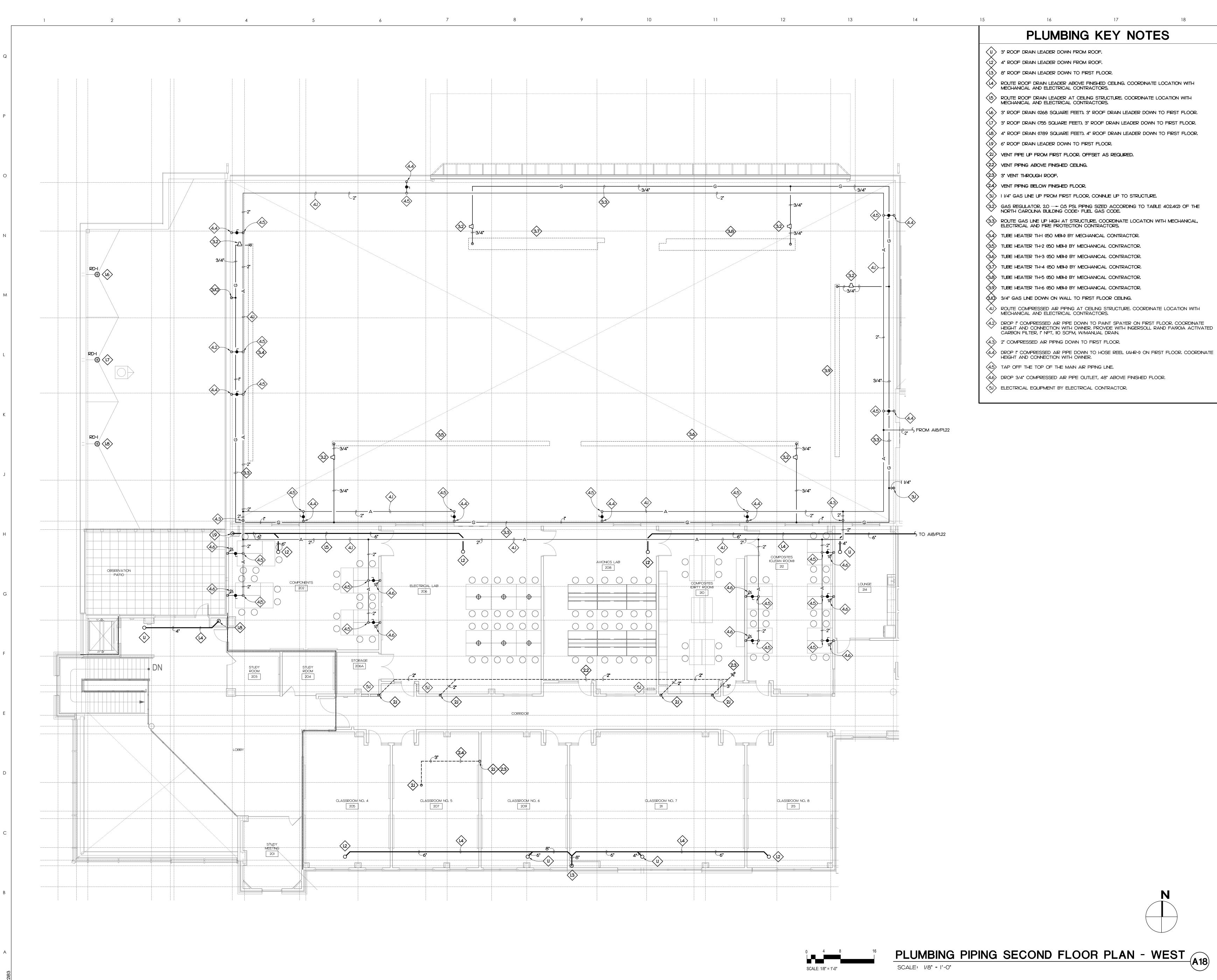
PLUMBING PIPING FIRST FLOOR PLAN - EAST SCALE: 1/8" = 1'-0"

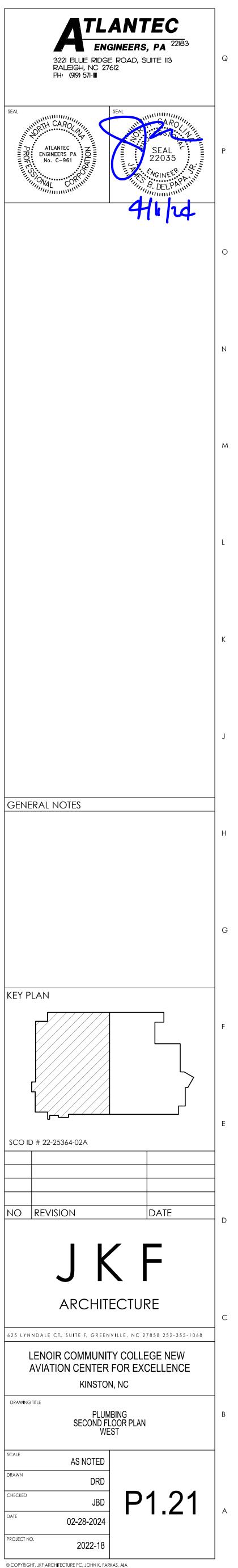


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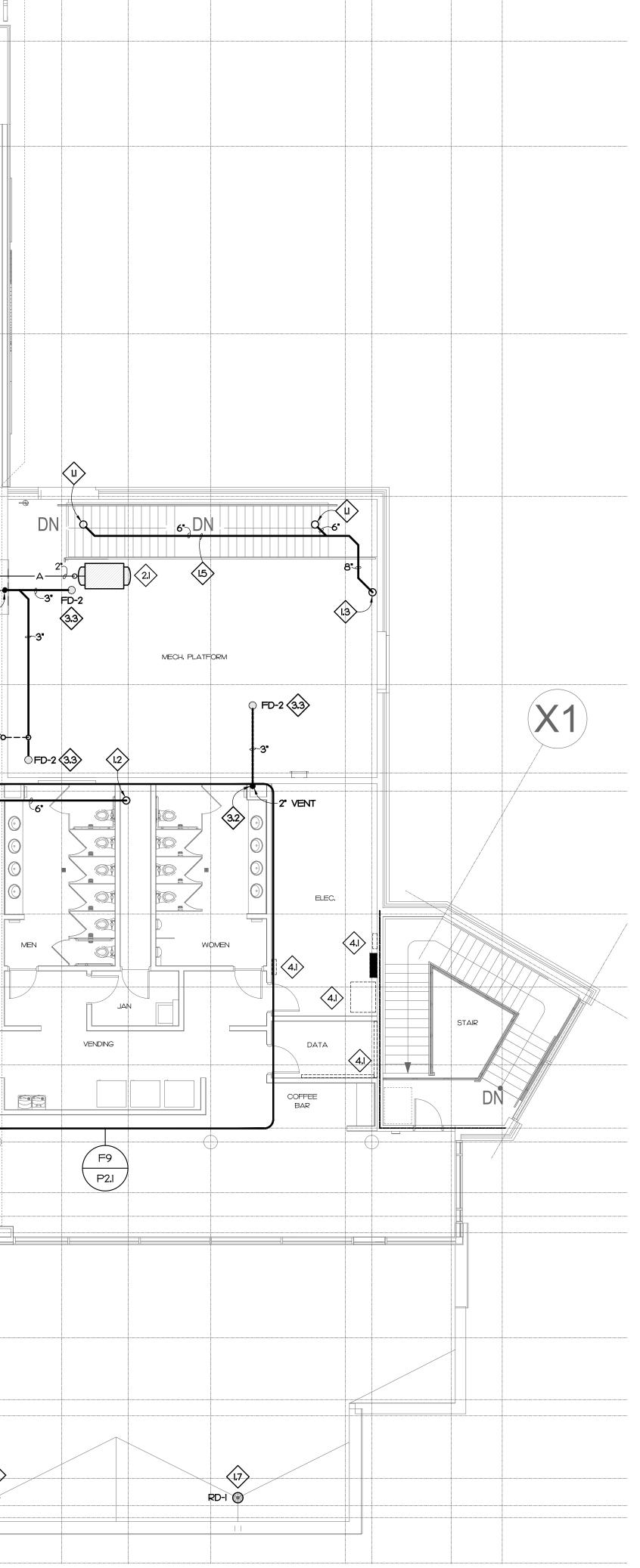
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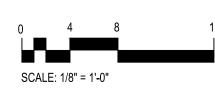
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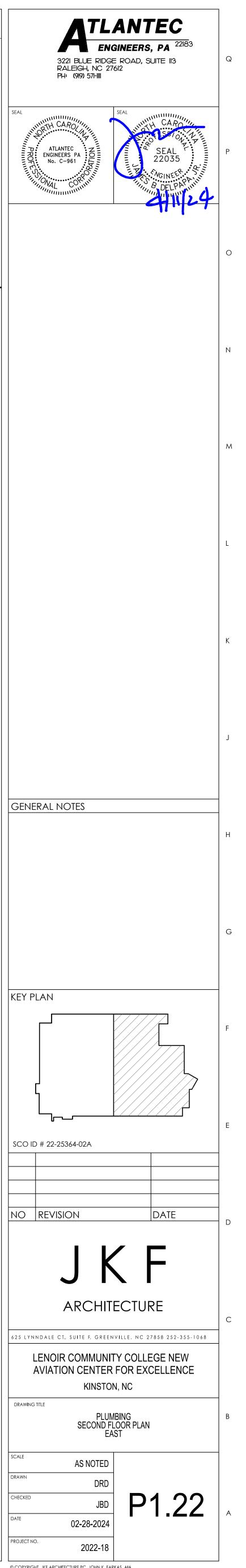
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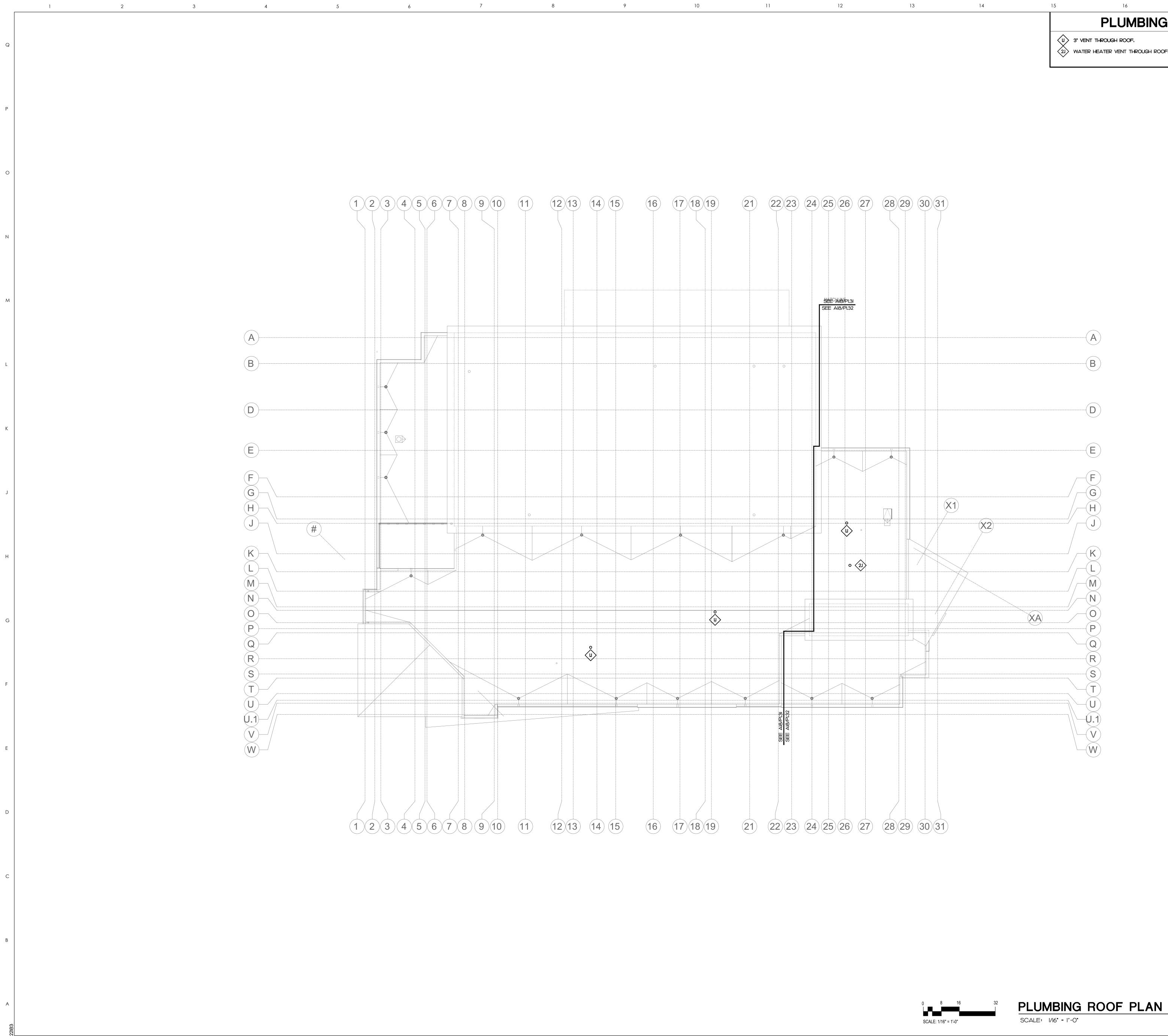
PLUMBING KEY NOTES
(I.) 4" ROOF DRAIN LEADER DOWN FROM ROOF.
$\langle 12 \rangle$ 6" ROOF DRAIN LEADER DOWN TO FIRST FLOOR.
(13) 8" ROOF DRAIN LEADER DOWN TO FIRST FLOOR.
ROUTE ROOF DRAIN LEADER ABOVE FINISHED CEILING. COORDINATE LOCATION WITH MECHANICAL AND ELECTRICAL CONTRACTORS.
ROUTE ROOF DRAIN LEADER AT CEILING STRUCTURE. COORDINATE LOCATION WITH MECHANICAL AND ELECTRICAL CONTRACTORS.
$\langle 1.6 \rangle$ 3" ROOF DRAIN (1462 SQUARE FEET). 3" ROOF DRAIN LEADER DOWN TO FIRST FLOOR.
$\langle 1.7 \rangle$ 3" ROOF DRAIN (1540 SQUARE FEET). 3" ROOF DRAIN LEADER DOWN TO FIRST FLOOR.
AIR COMPRESSOR (AC-I). PROVIDE STEEL FRAME AS REQUIRED TO RAISE BASE OF AIR COMPRESSOR TO DRAIN TO FLOOR DRAIN. MOUNT ON RUBBER INSOLATORS.
3.1 3" WASTE DOWN TO FIRST FLOOR.
3.2 3" CONDENSATE DOWN TO FIRST FLOOR.
3.3 PROVIDE WITH TRAP PRIMER.
4.1> ELECTRICAL EQUIPMENT BY ELECTRICAL CONTRACTOR.





PLUMBING PIPING SECOND FLOOR PLAN - EAST SCALE: 1/8" = 1'-0"





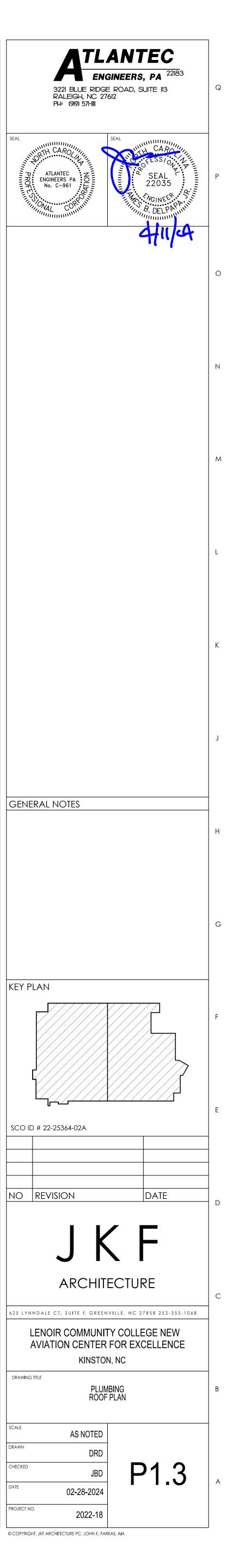
PLUMBING KEY NOTES

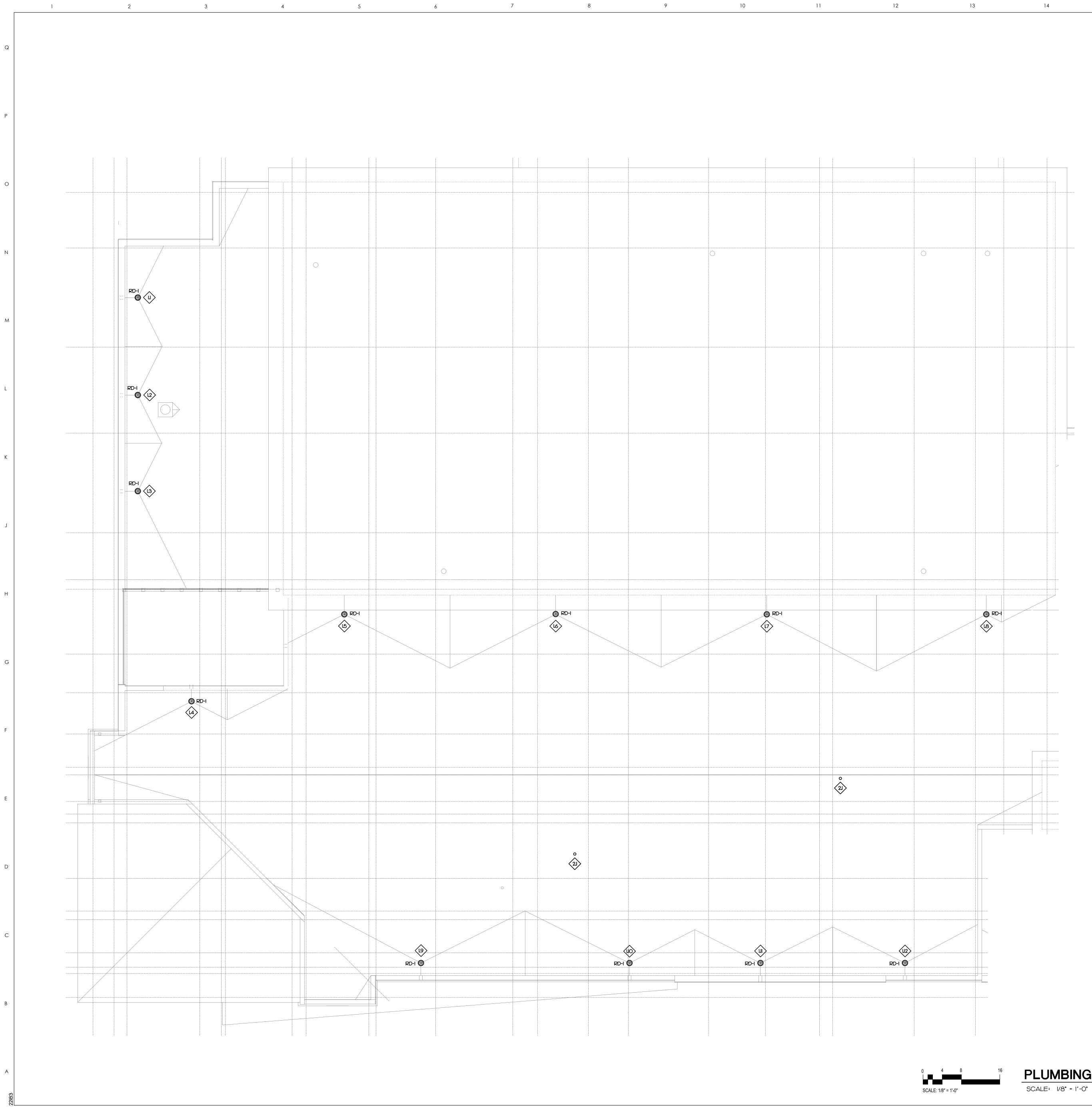
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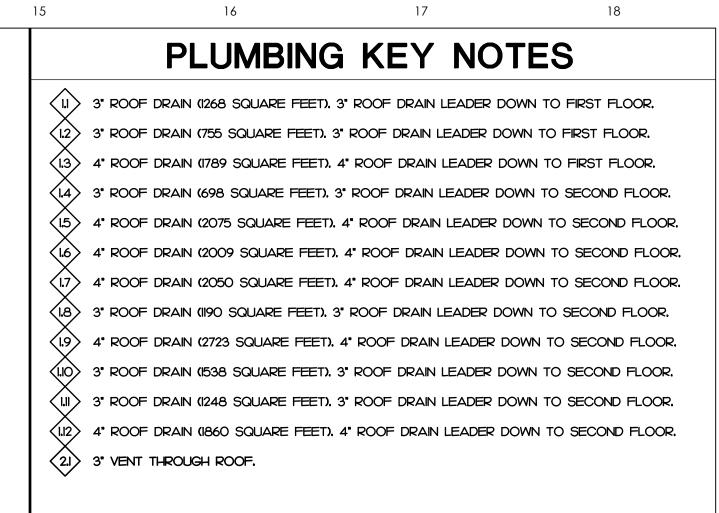
(II) 3" VENT THROUGH ROOF. 21) WATER HEATER VENT THROUGH ROOF.

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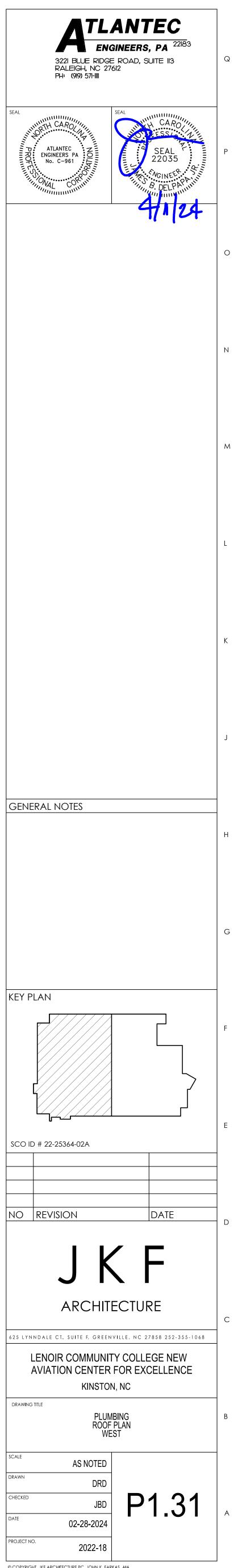




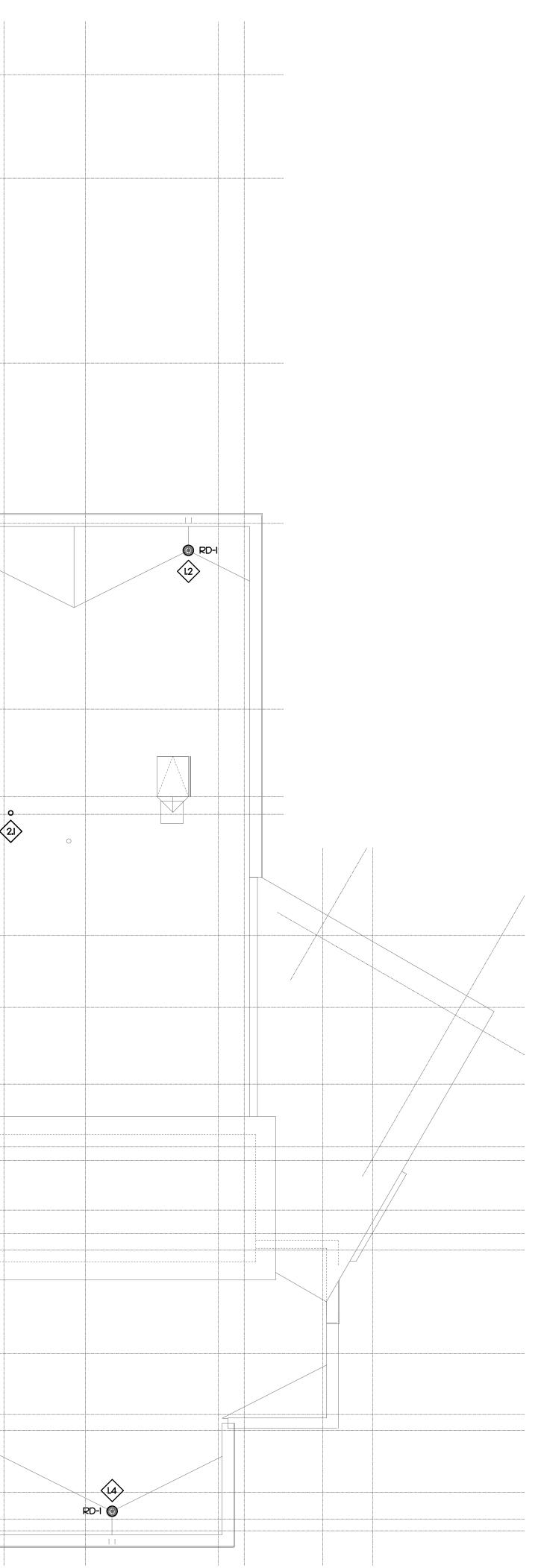
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PLUMBING PIPING ROOF PLAN - WEST



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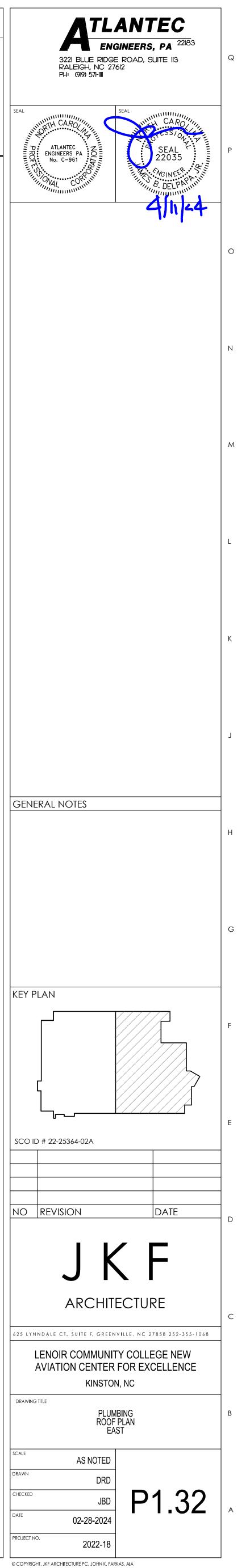
SCALE: 1/8" = 1'-0"

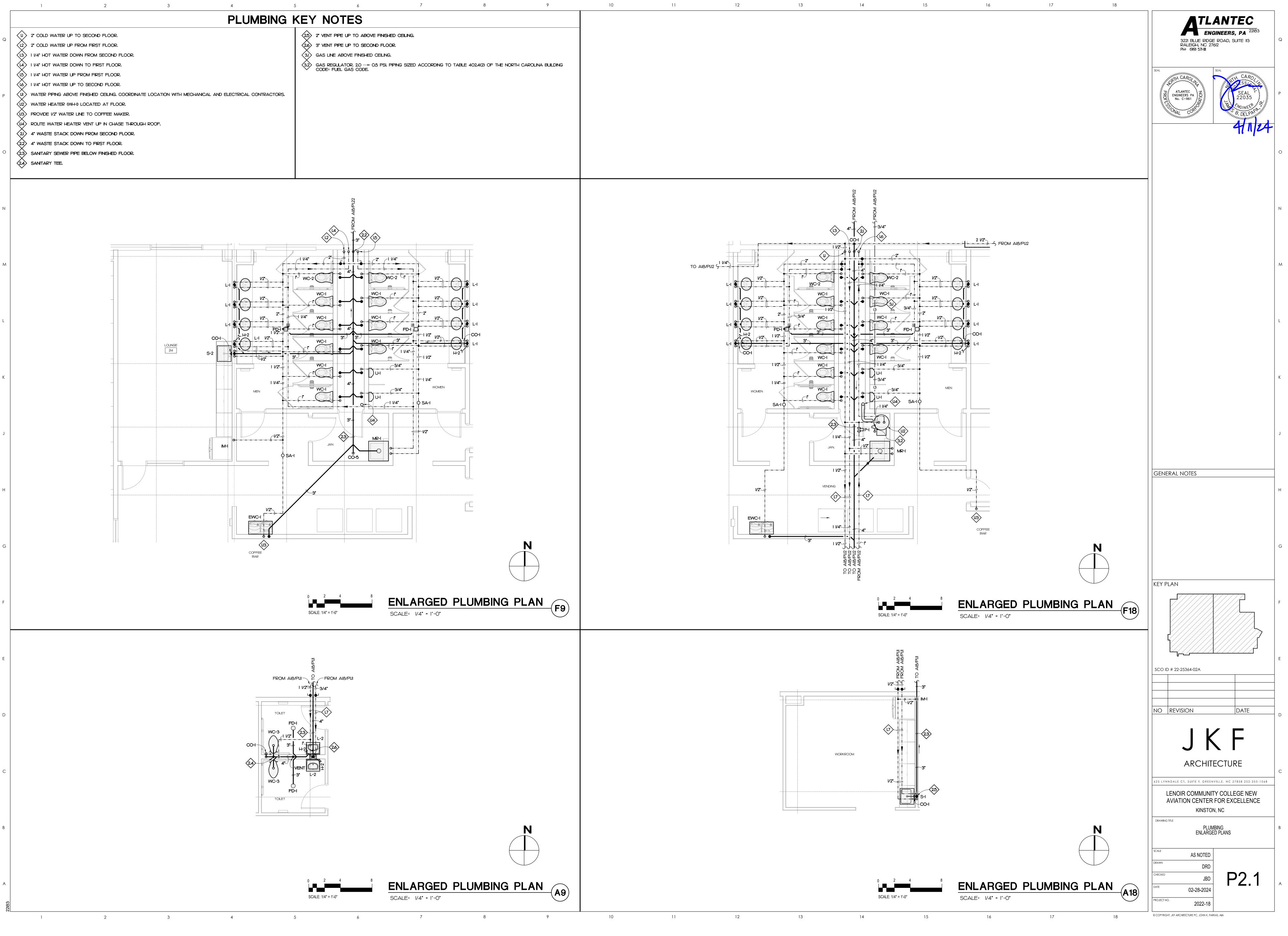
PLUMBING KEY NOTES
(1.) 4" ROOF DRAIN (2661 SQUARE FEET), 4" ROOF DRAIN LEADER DOWN TO SECOND FLOOR.
(12) 4" ROOF DRAIN (2143 SQUARE FEET). 4" ROOF DRAIN LEADER DOWN TO SECOND FLOOR.
(1.3) 3" ROOF DRAIN (1462 SQUARE FEET). 3" ROOF DRAIN LEADER DOWN TO FIRST FLOOR.
(1.4) 3" ROOF DRAIN (1540 SQUARE FEET). 3" ROOF DRAIN LEADER DOWN TO FIRST FLOOR.
2 3" VENT THROUGH ROOF.

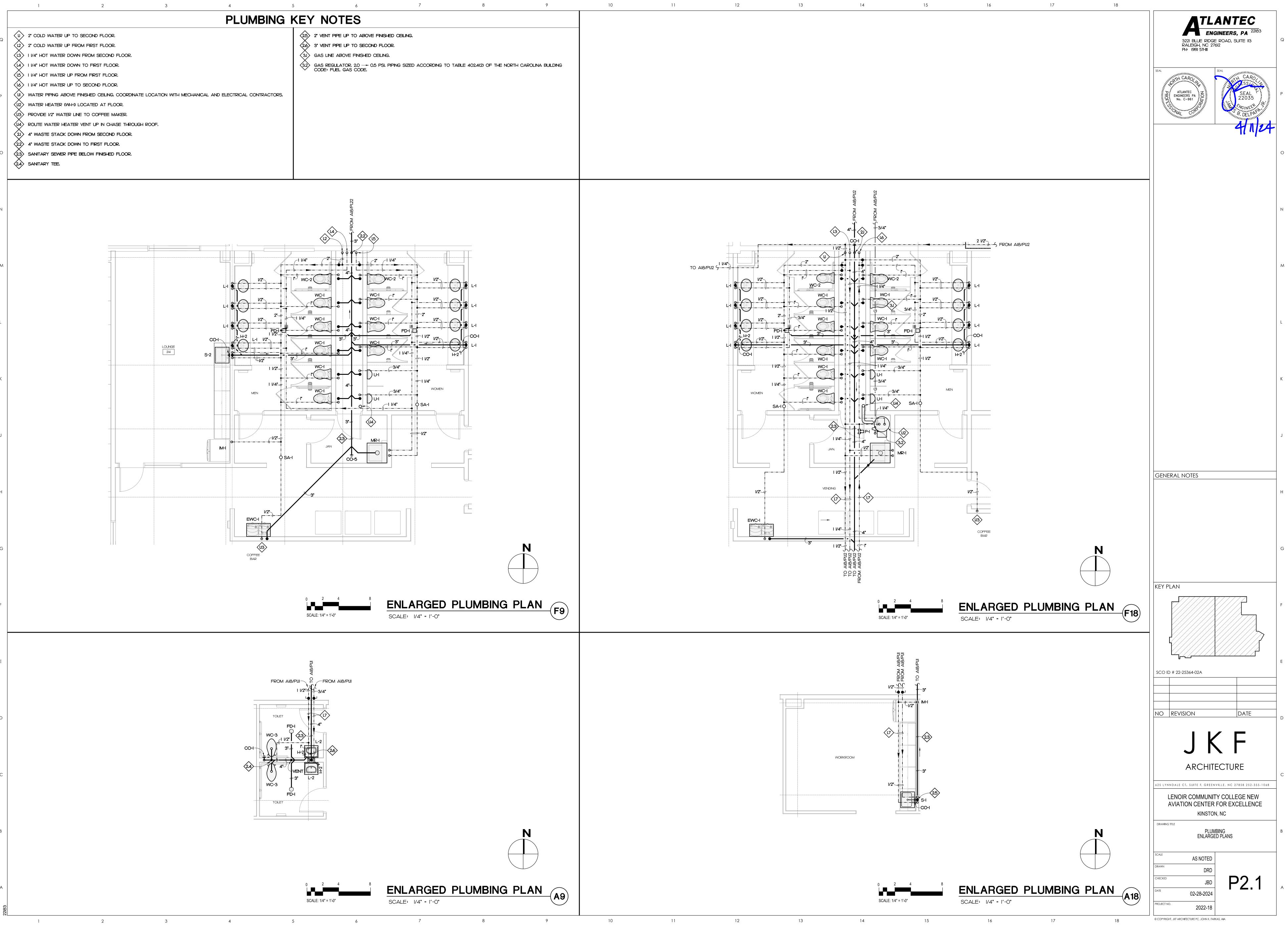


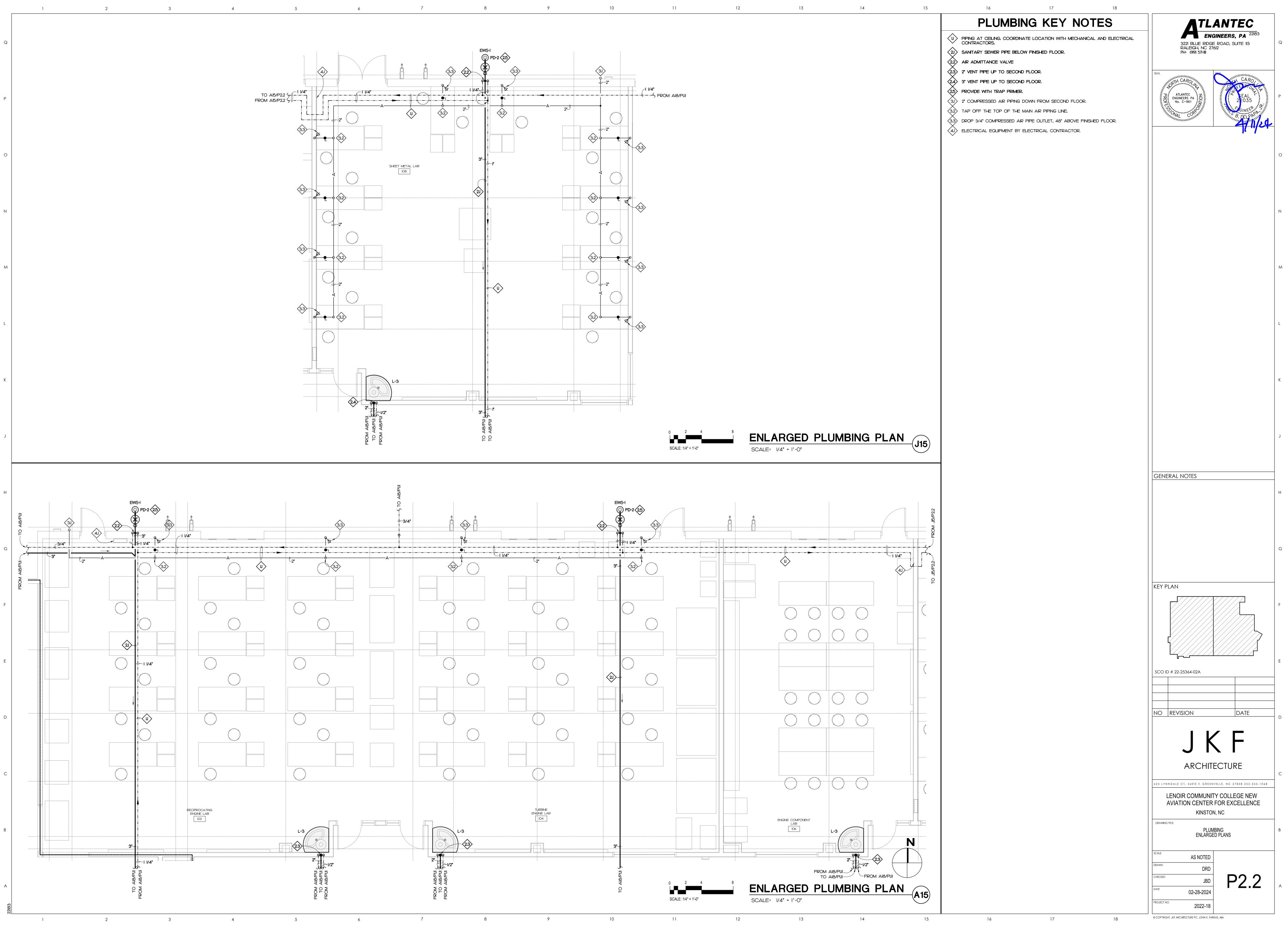
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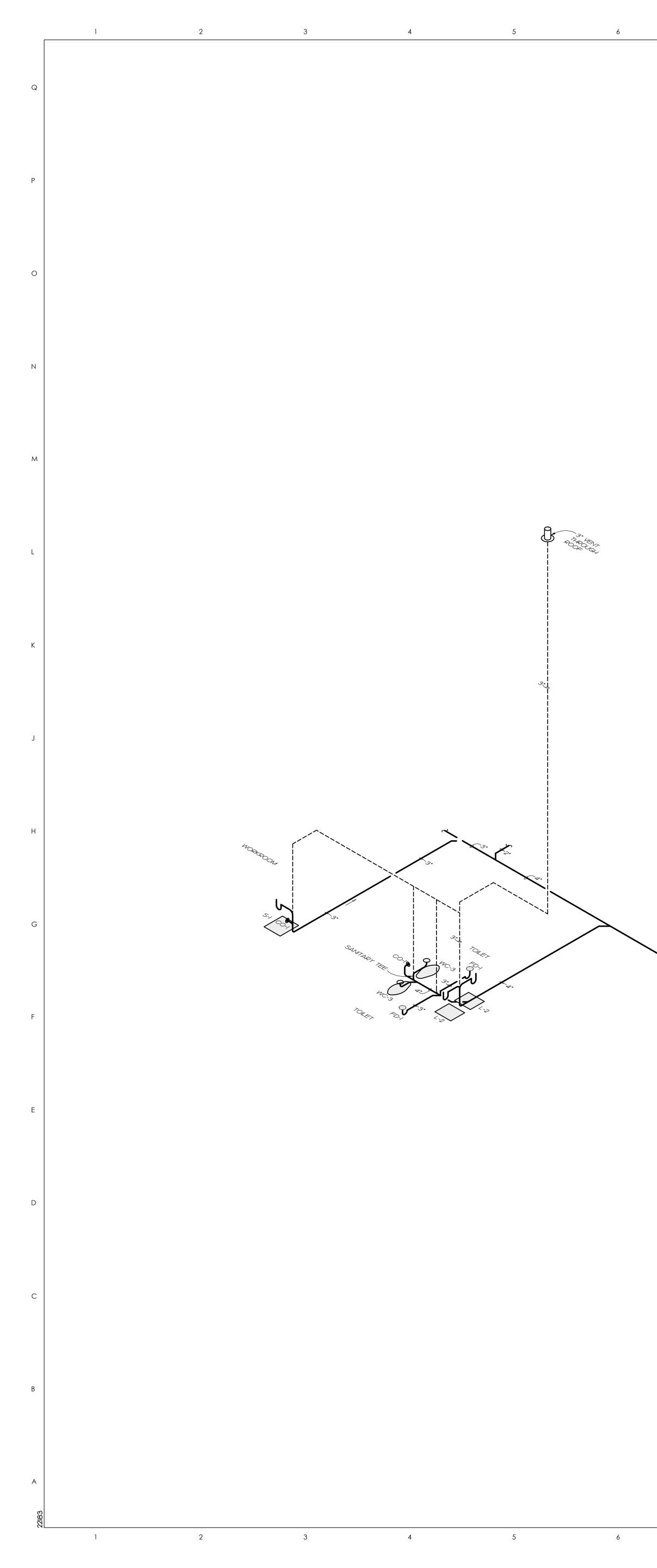
PLUMBING PIPING ROOF PLAN - EAST SCALE: 1/8" = 1'-0"

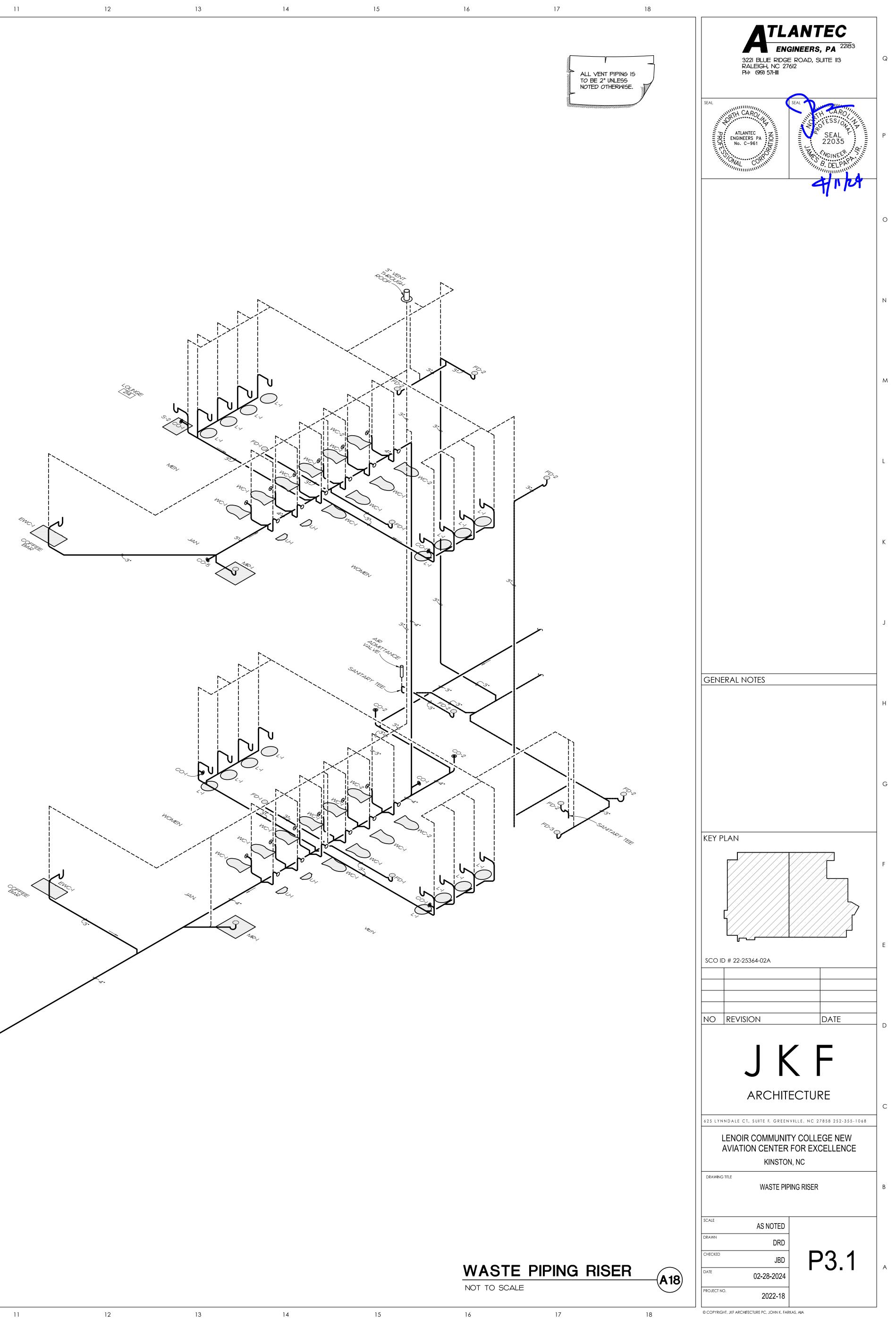




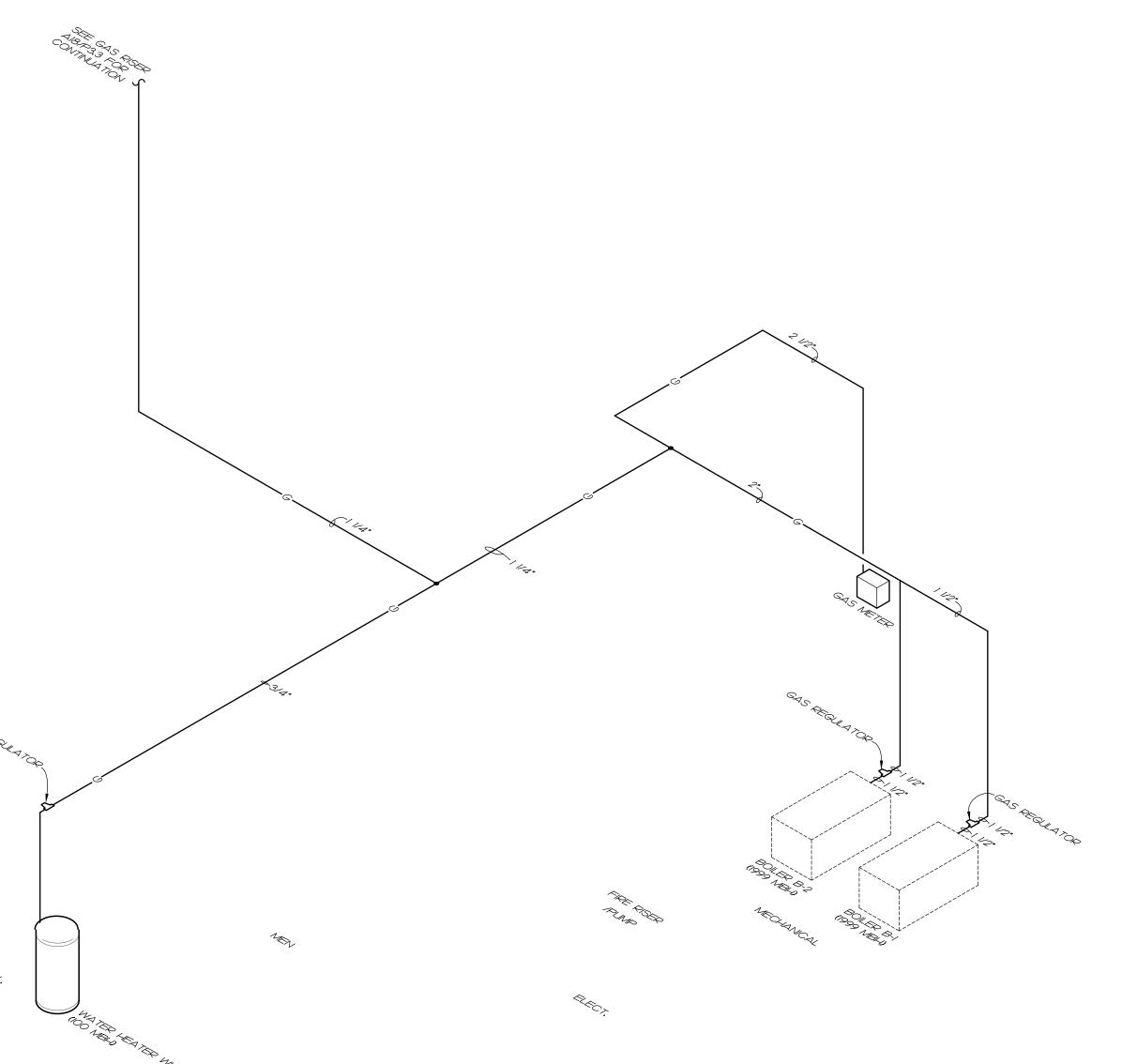








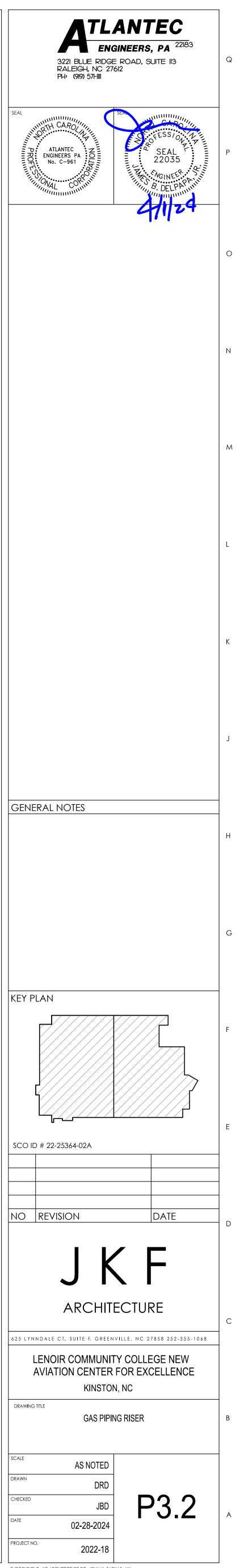
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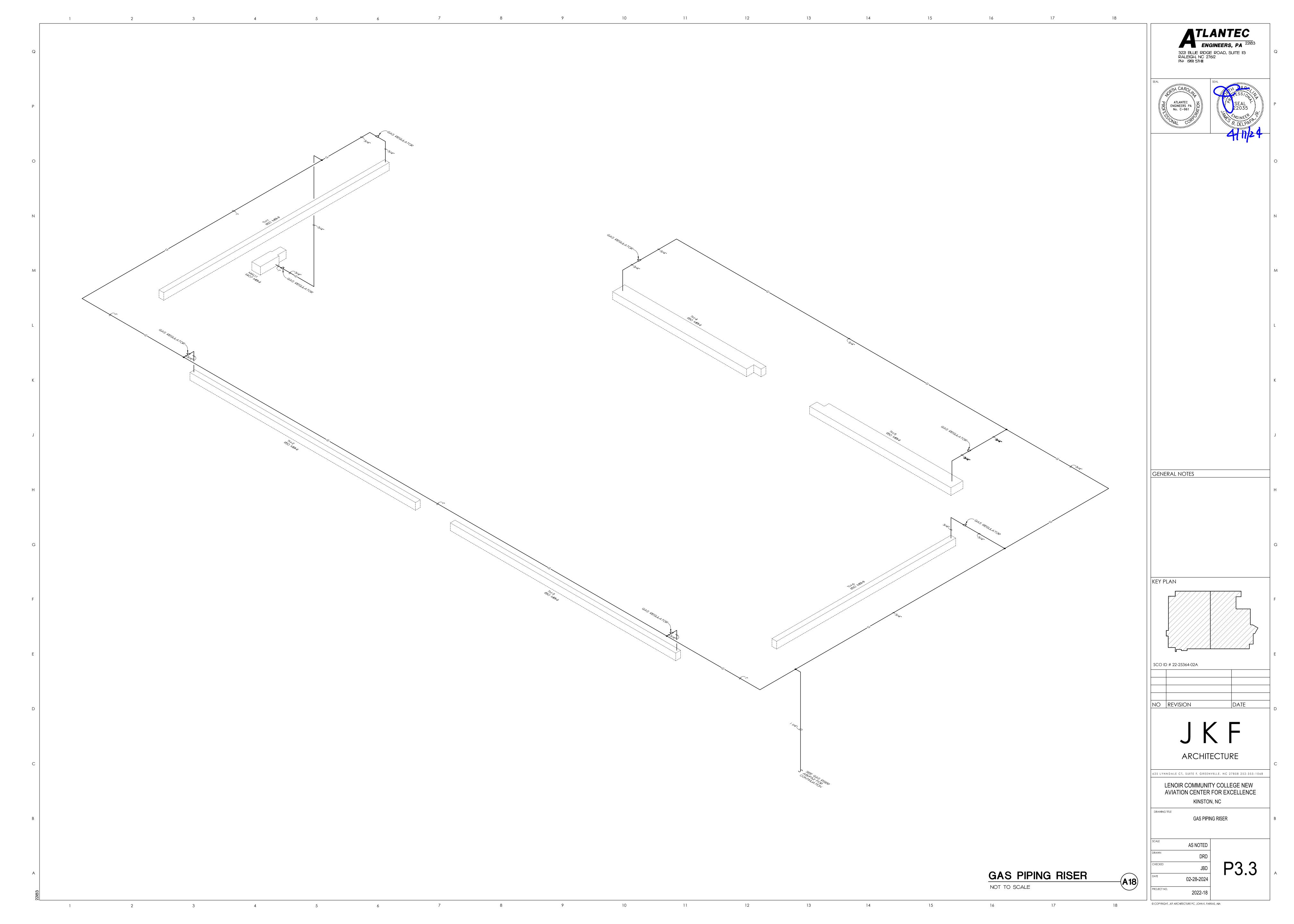


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NOT TO SCALE





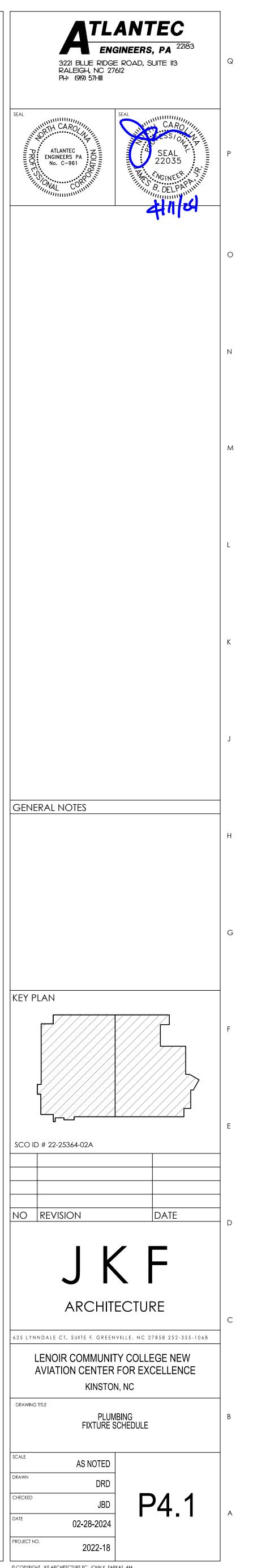
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			PLU	MBING	FIXTURE	E SCHE	EDULE
	SYMBOL / IMAGE	DESCRIPTION			1		
	AC-I	AIR COMPRESSOR	MANUFACTURER	MODEL NUMBER	CAMPBELL HAUSFIELD	MODEL NUMBER	MANUFACTURE HPDAVV
		CONTROLLER, PAC		JTOMATIC DRAIN VA	DRIVER: 25 HP ELECT ALVE, INTEGRATED DRI CAL CONTRACTOR,		
	NO IMAGE						
	AHR-1	AIR HOSE REEL	REELCRAFT	D83075 OLP	COXREELS		HOSE CRAFT L
	R	AIR HOSE REEL, 314	4" HOSE, 75' LENGTH	WITH HOSE BUMPE	R. PROVIDE WITH QUIC	K DISCONNECT.	-
	BP-I	BACKFLOW PREVENTOR	WATTS	LF909QT-S	WILKINS	975XL2-S	FEBCO
			ED PRESSURE ZONE	WITH BALL VALVES	AND STRAINER. MOUN	IT 24" ABOVE FINI	SHED FLOOR.
					1		
	CO-I	ACCESS COVER	ZURN	CO-2413-PVC CO-2530-SS	MIFAB MIFAB		JR SMITH JR SMITH
		PVC CLEANOUT BO ACCESS COVER.	I DDY AND PLUG TO BE	E GAS AND WATER	I ? TIGHT. PLUG TO HAVI	E A BRASS THRE	ADED INSERT TO
	0						
	CO-2	FLOOR CLEANOUT	ZURN	CO2449	MIFAB		JR SMITH
		PVC CLEANOUT WI	TH AND ADJUSTABLE	E PVC RISER, NICKE	L BRONZE FRAME AND	D COVER, AND AN	N ABS TAPER TH
	 	FLOOR CLEANOUT	ZURN	Z-1440-BP	WATTS	CO-380-34B	JR SMITH
		CLEANOUT HOUSING	ZURN	Z-1440-BP Z-1474	WATTS	CO-300-MF	
		HEAVY DUTY CLEANC	OUT HOUSING WITH CAS	T IRON BODY, GAS A	AND WATERTIGHT ABS TA	APERED THREAD PL	UG, AND ROUND SE
	CO-4	EXTERIOR CLEANOUT	ZURN	Z-1400-HD	WATTS	CO-200-RX-4-34	JR SMITH
		CLEANOUT HOUSING HEAVY DUTY EXTE	ZURN RIOR CLEANOUT WITH	Z-1474 H CAST IRON BODY	WATTS , EXTRA HEAVY DUTY	CO-300-MF TOP, AND GAS A	ND WATERTIGHT
	00-5	CLEANOUT	ZURN	CO2490	JOSAM		JR SMITH
		PVC CLEANOUT PL	I UG TO BE GAS AND	WATERTIGHT.	I		
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	E EWC-I	PROVIDE WITH FRO	OASIS NT AND SIDE CONTR	P8SBFSL OLS, SHUT-OFF VA	ELKAY LVE, CARRIER, AND TR	LZSTL8WS AP. PROVIDE STA	HALSEY TAYLO
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	EWS-I	EMERGENCY EYEWASH SHOWER MIXING VALVE	BRADLEY	SI9-314SB SI9-2100	SPEAKMAN SPEAKMAN	SE-697	GUARDIAN
		COMBINATION SHOW	I WER AND EYEWASH \SH. PROVIDE WITH FL		.I.), RECEPTOR, TWIN AN VITH TEPID WATER THR	 TI-SURGE SOFT-FL ROUGH A MIXING \	_I LO EYEWASH HE, VALVE, PROVIDE '
		RATED AT 26 GPM					
				71450			
	FD-I	FLOOR DRAIN FLOOR DRAIN TO H TRAP PRIMER CON		ZN455 DTTOM OUTLET, CA	WATTS ST IRON BODY WITH A	DJUSTABLE COLL	MIFAB .AR, POLISHED 6"
		IRAF FRIVIER CON	τ_Ο I IΟI Νι				
	FD-2						
		FLOOR DRAIN TO H PRIMER CONNECTIC		DITIOM OUTLET, CA	ST IRON BODY WITH A	NJUSTABLE COLL	AR, POLISHED NK
	FD-3	FLOOR DRAIN	ZURN	ZN4/51	WATTS	FD-100-ER	MIFAB
					OM OUTLET, ADJUSTAI		
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	HI	ANTIFREEZE HOSE BIBB					
			BIBB SHALL HAVE AI H HOSE BIBB, MOUNT		3 WITH ANTI-SIPHON V, D GRADE,	HUUM BREAKER.	, 3/4 INLET AND
	H-2	HOSE BIBB	CHICAGO	952	WOODFORD	21	ZURN
		HOSE BIBB SHALL I FOR EACH HOSE E	HAVE AUTOMATIC DR 3188. MOUNT 12" ABOV	2AINING WITH ANTI- 7E FINISHED FLOOR	SIPHON VACUUM BREA	KER. 3/4" INLET A	ND OUTLET. EXTI
	IM-1	ICE MAKER BOX	OATEY CO.	38570	GUY GRAY	АВ9700 НА	SIOUX CHIEF
					VE WITH HAMMER ARE		

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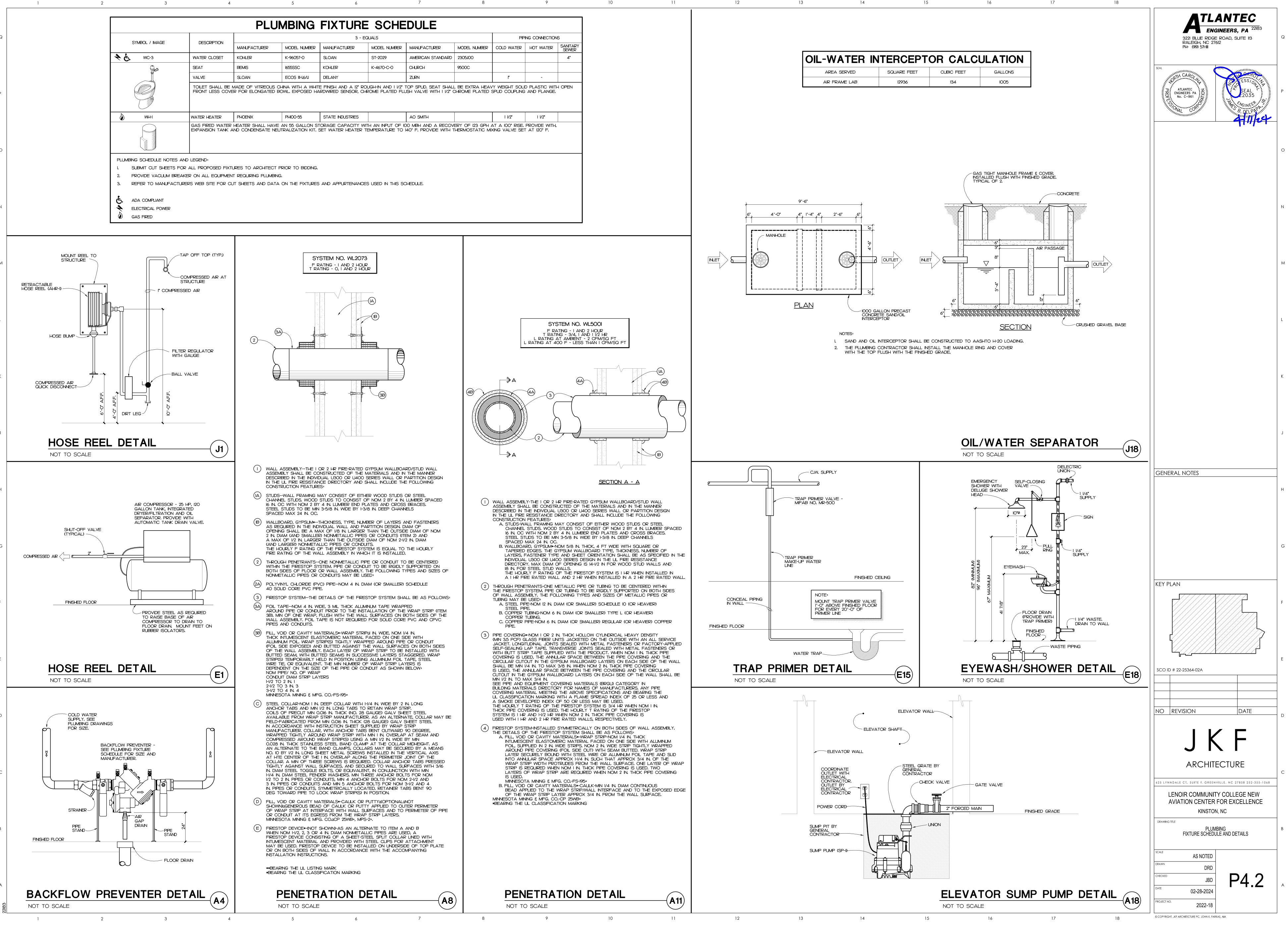
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MANUFACTURER	MODEL NUMBER	PIF COLD WATER	HOT WATER	SANITARY		SYMBOL / IMAGE	DESCRIPTION	MANL
HPDAVV		COLD WATER	HOT WATER	SEWER		₹ £	LAVATORY	KOHL
ELTA STARTER: 460 WATER SEPARATOR				ÆAVY		6	FAUCET TRAP	SLOA McGU
							SUPPLY	McGU
						0	WITH 3/8" COPPER CONNECTIONS, FU WITH CLEANOUT, (R SUPPL ILL TURN CAST BI
HOSE CRAFT USA						₹ <u>£</u> L-2	AND WATER-TEMP	KOHLE
							FAUCET TRAP	SLOA McGU
							SUPPLY	McGU
FEBCO	LF860	3/4" - 1"		_			WALL HUNG LAVA MOUNTED, HARDWI SUPPLY KIT SHALL SHALL BE 3/8" IPS	IRED SE
ED FLOOR.						* E , L-3	OFFSET DRAIN AN SET AT 110° F. WASH FOUNTAIN	ND TRUE
							FAUCET	PROV WASH
JR SMITH		_	_	SEE PLUMB		NO IMAGE	TRAP SUPPLY	McGU McGU
JR SMITH				DRAWINGS			STAINLESS STEEL INCLUDE CHROME P-TRAP SHALL BE	PLATED CHROM
ED INSERT TO RECE	IVE SECURING SCR	EW FOR STAIN	LESS STEEL RO	UND			TRUEBRO LAV SHIE	ELD. PRO
JR SMITH		_	_	SEE PLUMB			FAUCET	STER
BS TAPER THREADE	ED PLUG. CLEANOU	T TO BE GAS /	AND WATERTIGH	DRAWINGS			HOSE MOP BRACKET	STER
							MOP RECEPTOR S	HALL BE
JR SMITH		1		SEE PLUMB		\ P-I	RECIRCULATING PUMP	
				DRAWINGS			RECIRCULATING PL BY LICENSED ELEC	
AND ROUND SECURED) HEAVY DUTY TOP.							T
	4040			SEE PLUMB.		 ₹ P-2 	ZOELLER OIL SMAI CHECK VALVE ANI	ZOELL
JR SMITH	4243	-	-	DRAWINGS				5 01000
WATERTIGHT ABS -	TAPERED THREAD	PLUG.				RD-I	ROOF DRAIN	ZURN
				SEE PLUMB			15" DIAMETER ROOF	
JR SMITH				DRAWINGS				
						ی اور S-I	SINK	JUST
HALSEY TAYLOR	HTHB-HACDBLPV-WF	1/2"	_	2°			FAUCET	CHICA
ESS STEEL FINISH. P				2			TRAP SUPPLY	McGU McGU
							STRAINER SINK IS TO BE 18 (JUST
						<u>ل</u> 5-2	RIDGID SUPPLY KIT PROWRAP INSULAT SINK	
GUARDIAN	GI9O2	/4"	/4"	-			FAUCET TRAP	DELTA
GUARDIAN EYEWASH HEADS, F							SUPPLY	McGUI
_VE. PROVIDE WITH [DRENCH SHOWER T	ESTER. MIXING	VALVE TO BE E	BRASS,			STRAINER SINK IS TO BE 18 (KIT SHALL INCLUDE	E CHRON
						SA-I	INSULATOR, PROVID	DE WITH
MFAB	F11000-1	I/2"	-	3"			SHOCK ABSORBER TO STANDARD PD	
?, POLISHED 6" x 6" N	⊥ IICKEL BRONZE SQI	I JARE HEELPRO) OF STRAINER A	ND 1/2"				
MFAB	F1000-C	I/2"	-	3"		TD-I	HEAVY DUTY TRENCH DRAIN PROVIDE MODULAR I	ZURN DURA-CC
?, POLISHED NICKEL E	BRONZE ROUND HE	ELPROOF STRA	⊥ √INER AND 1/2" T	RAP				
MIFAB	FI00-CC-DD	I/2"	-	3"		TP-1	TRAP PRIMER	
IED 7" DIAMETER NIC	KEL BRONZE STRA	INER AND 1/2" T	RAP PRIMER	1			TRAPS.	
MIFAB	MHY-15	3/4"	-	-			URINAL VALVE	KOHLE
4" INLET AND OUTLE	T. EXTERIOR FINISH	H TO BE CHRON	ME, PROVIDE WI	TH LOOSE			CARRIER URNIAL SHALL BE	
							PLATED SPUD, CO	
ZURN	Z875L7	3/4"	-	-		★ WC-1	WATER CLOSET	KOHLE
OUTLET. EXTERIOR	FINISH TO BE CHR	OME, PROVIDE	WITH LOOSE TE	E KEY		- Contraction of the second se	SEAT	BEMIS
								SLOAN SLOAN
SIOUX CHIEF	696-G-1010MF	1/2"	-	-			WALL MOUNTED E WITH OPEN FRONT FLANGE	
WEAT AND SUPPLY	TUBE TO REFRIGEN	RATOR, COORD	NATE MOUNTING	G HEIGHT		₹ <u>€</u> , wc-2	WATER CLOSET	KOHLE
							SEAT VALVE	BEMIS
							CARRIER WALL MOUNTED E	SLOAI
					I	- Andrew - A	OPEN FRONT LESS	3 COVE

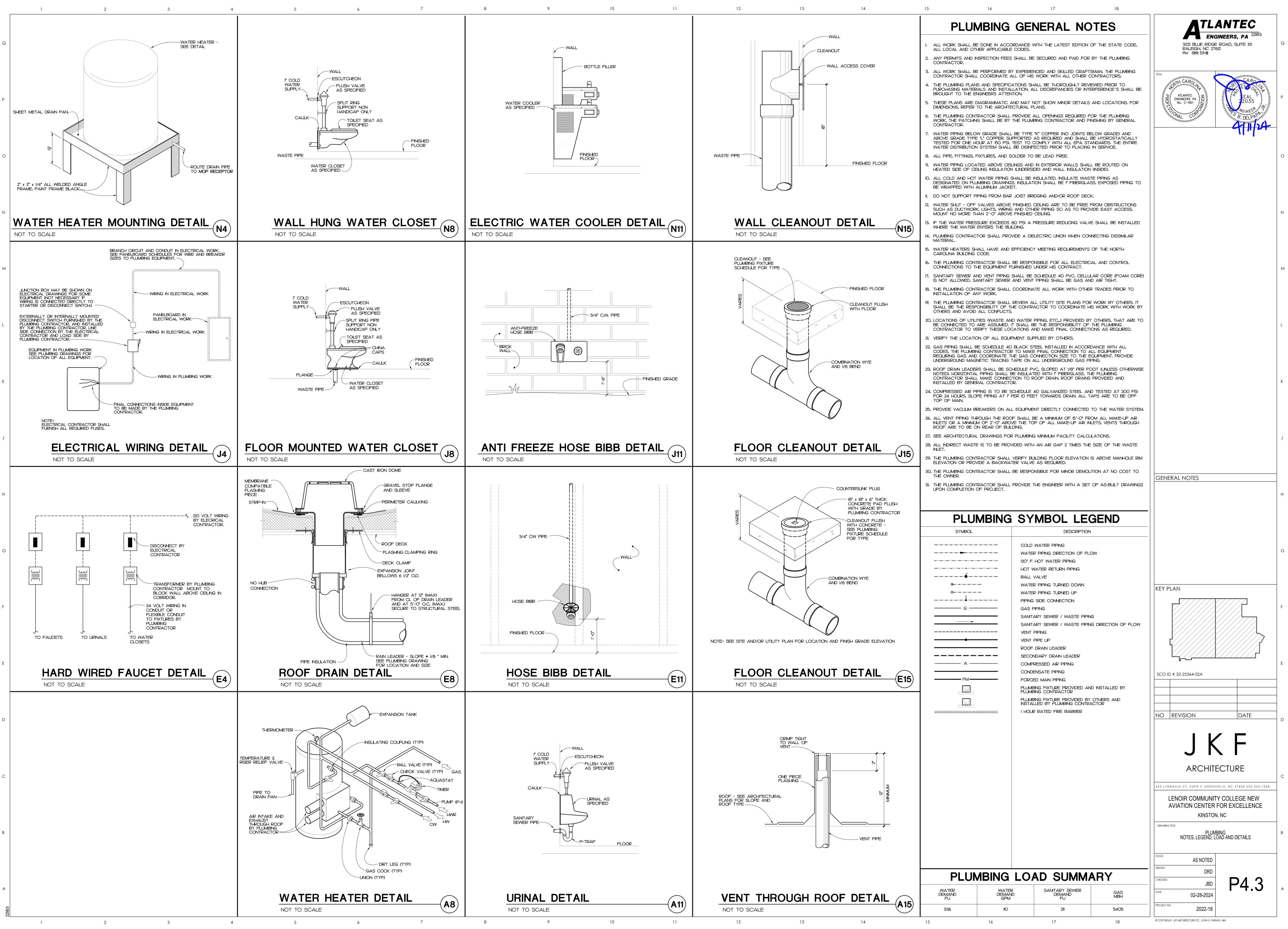
SYMBOL / IMAGE	DESCRIPTION	
بد في ∟	LAVATORY	KOHLE
	FAUCET	SLOAN
B	TRAP	McGUI
	SUPPLY	McGUI
0	WITH 3/8" COPPER CONNECTIONS, FL WITH CLEANOUT, AND WATER-TEMP	R SUPPL` ILL TURN CAST BR
₹ €, L-2		KOHLE
		SLOAN McGUII
	SUPPLY	McGUI
	WALL HUNG LAVA MOUNTED, HARDW	IRED SEN
	SUPPLY KIT SHALL SHALL BE 3/8" IPS OFFSET DRAIN AN	5. P-TRAF
♦ & L-3	SET AT 110° F. WASH FOUNTAIN	BRADL
	FAUCET	PROVI WASH
NO IMAGE	SUPPLY STAINLESS STEEL	
	INCLUDE CHROME P-TRAP SHALL BE TRUEBRO LAV SHI	CHROM
MR-I	MOP RECEPTOR	STERN
	FAUCET	STERN
T	HOSE	STERN
	MOP BRACKET	STERN
4 P-I	RECIRCULATING PUMP	ΒξG
	RECIRCULATING PI BY LICENSED ELEC	
₽-2	SUMP PUMP	ZOELL
<u> </u>	ZOELLER OIL SMA CHECK VALVE AN	
		0.000
RD-I	ROOF DRAIN	ZURN
	15" DIAMETER ROOF	DRAIN W
		-
£ 5-1	SINK	JUST
	FAUCET TRAP	CHICA
000	SUPPLY	McGUI
	STRAINER SINK IS TO BE 18	
	RIDGID SUPPLY KIT PROWRAP INSULA	Г SHALL
<u>E</u> 5-2	SINK	JUST DELTA
(F)		McGUI
	SUPPLY	McGUI
	STRAINER SINK IS TO BE 18	JUST
	KIT SHALL INCLUD INSULATOR, PROVI	E CHRON
SA-I	SHOCK ABSORBER	
	SHOCK ABSORBEN TO STANDARD PD	
TD-I	HEAVY DUTY	ZURN
	TRENCH DRAIN	
	PROVIDE MODULAR	DURA-CO
	PROVIDE MODULAR	DURA-CO
	PROVIDE MODULAR	DURA-CO
TP-1	PROVIDE MODULAR	DURA-CO
TP-1		MIFAB
TP-1	TRAP PRIMER PRESSURE DROP 4	MIFAB
E-I	TRAP PRIMER PRESSURE DROP 4	MIFAB
TP-I IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	TRAP PRIMER PRESSURE DROP 4	MIFAB
	TRAP PRIMER PRESSURE DROP A TRAPS. URINAL VALVE	MIFAB ACTIVATE KOHLE SLOAN
V: U	TRAP PRIMER TRAPS. PRESSURE DROP A TRAPS. URINAL VALVE CARRIER URNIAL SHALL BE	MIFAB ACTIVATE KOHLE SLOAN ZURN MADE C
<u>к</u> и К К К К К К К К К К К К К	TRAP PRIMER TRAPS. PRESSURE DROP A TRAPS. URINAL VALVE CARRIER	MIFAB ACTIVATE KOHLE SLOAN ZURN MADE C
	TRAP PRIMER PRESSURE DROP A TRAPS. URINAL VALVE CARRIER URNIAL SHALL BE PLATED SPUD, CO	MIFAB ACTIVATE KOHLE SLOAN ZURN MADE C DUPLING
<u>к</u> и К К К К К К К К К К К К К	TRAP PRIMER TRAP SURE DROP A TRAPS. URINAL VALVE CARRIER URNIAL SHALL BE PLATED SPUD, CC	MIFAB ACTIVATE SLOAN ZURN MADE C DUPLING ,
	TRAP PRIMER PRESSURE DROP A TRAPS. URINAL VALVE CARRIER URNIAL SHALL BE PLATED SPUD, CO	MIFAB ACTIVATE KOHLE SLOAN ZURN MADE C DUPLING
	TRAP PRIMER TRAPS. TRAPS. TRAPS. TRAPS. URINAL URINAL URINAL URINAL SHALL BE PLATED SPUD, CC WATER CLOSET SEAT	MIFAB ACTIVATE SLOAN ZURN MADE C DUPLING A
	TRAP PRIMER TRAP S. TRAPS. TRA	MIFAB ACTIVATE SLOAN MADE C DUPLING KOHLE BEMIS SLOAN SLOAN
Image: state	TRAP PRIMER TRAP PRIMER PRESSURE DROP A TRAPS. URINAL VALVE CARRIER URNIAL SHALL BE PLATED SPUD, CO WATER CLOSET SEAT VALVE CARRIER WATER CLOSET SEAT VALVE CARRIER WALL MOUNTED E	MIFAB ACTIVATE SLOAN MADE C DUPLING KOHLE BEMIS SLOAN SLOAN
 ↓ ↓	TRAP PRIMER PRESSURE DROP A PRESSURE DROP A TRAPS. URINAL VALVE CARRIER URNIAL SHALL BE PLATED SPUD, CO WATER CLOSET SEAT VALVE CARRIER WATER CLOSET SEAT VALVE CARRIER WALL MOUNTED E WALL MOUNTED E WALL MOUNTED FROM FLANGE	MIFAB ACTIVATE SLOAN ZURN MADE C DUPLING SLOAN SLOAN SLOAN SLOAN
Image: state	TRAP PRIMER TRAP PRIMER PRESSURE DROP A TRAPS. URINAL VALVE CARRIER URNIAL SHALL BE PLATED SPUD, CC WATER CLOSET SEAT VALVE CARRIER WALL MOUNTED E WATER CLOSET SEAT VALVE CARRIER WALL MOUNTED E WATER CLOSET SEAT VALVE CARRIER WATER CLOSET SEAT VALVE VALVE VALVE VALVE VALVE	MIFAB ACTIVATE SLOAN MADE C JUPLING SLOAN SLOAN SLOAN LESS C KOHLE BEMIS SLOAN
 ↓ ↓	TRAP PRIMER TRAP PRIMER PRESSURE DROP A TRAPS. URINAL VALVE CARRIER URNIAL SHALL BE PLATED SPUD, CO WATER CLOSET SEAT VALVE CARRIER WALL MOUNTED E WALL MOUNTED E WATER CLOSET SEAT VALVE CARRIER WALL MOUNTED E WATER CLOSET SEAT WATER CLOSET SEAT WATER CLOSET SEAT WATER CLOSET SEAT	MIFAB ACTIVATE SLOAN MADE C UPLING SLOAN SLOAN LONGAT T LESS C KOHLE BEMIS SLOAN SLOAN SLOAN

PLUN								
	/BING	FIXTURE	SCHE	DULE				
		3 - E0		1			ING CONNECTION	1
CTURER	MODEL NUMBER		MODEL NUMBER	MANUFACTURER	MODEL NUMBER	COLD WATER	HOT WATER	SANITAR SEWER
	ETF-600	AMERICAN STANDARD	9482.000	TOTO	LT569 CA8302			
	8902	DEARBORN BRASS	702-1	KOHLER	K-8999			2"
	158LK	BRASS CRAFT	R1912AC	KOHLER	K-7605-P-CP	1/2"	1/2*	
		LOW, AND INCLUDE SE ITH AN AERATOR (0.25						
ASS STEM, F 5 ELBOW, CA	REDUCER, AND FL AST BRASS SLIP	ANGE. INLET SHALL BE NUT, AND FLANGE. PRO	3/8" IPS. OUTLET	SHALL BE 3/8" IPS. P ET STRAINER AND TRL	-TRAP SHALL BE C	HROME PLATED) CAST BRASS	BODY
		RMS TO ASSE 1070 OR	·		75.00.4			
	K-286I-0 ETF-600	AMERICAN STANDARD	0355.012	ZURN	Z5834			
	8902	DEARBORN BRASS	702-1	KOHLER	K-8999			2"
	158LK	BRASS CRAFT	R1912AC	KOHLER	K-7605-P-CP	/2"	/2"	
		<u> </u> TH A WHITE FINISH, H <i>I</i> E FINISH, 4" CENTERS,						
-ROME PLA	TED BRASS STOP	E FINISH, 4 CENTERS, 'S WITH THREADED CO AST BRASS BODY WITH	NNECTIONS, FULL	TURN BRASS STEM, R	EDUCER, AND FLAN	IGE. INLET SHAL	L BE 3/8" IPS.	OUTLET
		ET WITH COVER PLATE						
	STD-SN2033-SH							
WITH UNTAIN								
	8902	DEARBORN BRASS	702-1	KOHLER	K-8999			2"
	158LK	BRASS CRAFT	R1912AC		K-7605-P-CP			
SS STOPS	WITH THREADED	ED SENSOR FAUCET SH CONNECTIONS, FULL TI 1TH CLEANOUT, CAST I	JRN BRASS STEM,	REDUCER, AND FLAN	GE. INLET SHALL B	E 3/8" IPS. OUTI	ET SHALL BE	3/8" IPS.
		E AND WATER TEMPE						
IAMS	SB-900	FIAT	TSBIOO					3"
LIAMS	T-IO-VB	CHICAGO	897RCF	MOEN	8124	I/2"	1/2"	
LLIAMS	T-35	FIAT	832AA					
LLIAMS	T-40	FIAT	889CC					
," x 24" x 12" I	DEEP WITH ONE F	PIECE STAINLESS STEE	L CAP, NO FLANG	ÆS.				
		1	1	1			1	1
	PL36	T 01 10:						
BE 1/6 HORS ITRACTOR.	EPOWER, 120 VOL	.T, SINGLE PHASE. PRO	VIDE PUMP WITH M	MOUNTING BRACKET, 1	IMER, AQUASTAT /	AND DISCONNEC	JI, DISCONNEC	ı WIRING
T		1		1				1
	940-0007					-	-	-
		P SWITCH, SENSOR, AN CTRICAL CONTRACTOR						ΛΤΉ
	Z-100-C	WATTS	RD-300-D-GSS	MIFAB	R1200-U	-	-	_
AST IRON BO	ODY, UNDER DECK (L CLAMP, GRAVEL GUARD /	AND LOW SILHOUET	TE POLYDOME, SIZE AS	NOTED ON DRAWING	ı S.		1
	US-ADA-1821-A	ELKAY						
	201-AGN8AE3-317CP	DELTA	27C234	AMERICAN STANDARD		1/2"	1/2"	
	8902	KOHLER	K-8999	DEARBORN BRASS	702-1			2"
	170	KOHLER	K-76-6-P	BRASSCRAFT	CS400AC			
	JB-99	ELKAY	LK-99	DEARBORN BRASS	L7			
		DECK MOUNTED GOOS S STOPS WITH THREAD						
	US-ADA-1821-A	ELKAY						
	400	MOEN	7437	KOHLER		l/2 °	1/2"	
	8902	KOHLER	K8999	DEARBORN BRASS	702-1			2"
	170	KOHLER	K-76-6-P	BRASSCRAFT	CS400AC			
	JB-99	ELKAY	LK-99	DEARBORN	L7			
		DECK MOUNTED FAUC		INLET AND OUTLET SH				
ATED BRA								
ATED BRA	WASHER CONNEC	TION, AND DISPOSAL II	= REQUIRED BY A		4480			
ATED BRA AYER, DISH /E A STAIN	WASHER CONNEC 75000 NLESS STEEL CAS	TION, AND DISPOSAL II ZURN 5ING, FLEXIBLE MECHAN	= REQUIRED BY A Z1700	WADE	4480 AS CHAMBER AND	CERTIFICATION	STAMP AS CO	
ATED BRA AYER, DISH VE A STAIN	75000	TION, AND DISPOSAL II ZURN 5ING, FLEXIBLE MECHAN	= REQUIRED BY A Z1700	WADE		CERTIFICATION	STAMP AS CO	
ATED BRA YER, DISH E A STAIN	WASHER CONNEC 75000 NLESS STEEL CAS	TION, AND DISPOSAL II ZURN 5ING, FLEXIBLE MECHAN	= REQUIRED BY A Z1700	WADE		CERTIFICATION	STAMP AS CO	
ATED BRA YER, DISH 'E A STAIN	WASHER CONNEC 75000 NLESS STEEL CAS	TION, AND DISPOSAL II ZURN 5ING, FLEXIBLE MECHAN	= REQUIRED BY A Z1700	WADE		CERTIFICATION	STAMP AS CO	
ATED BRA YER, DISH E A STAIN	WASHER CONNEC 75000 NLESS STEEL CAS	TION, AND DISPOSAL II ZURN 5ING, FLEXIBLE MECHAN	= REQUIRED BY A Z1700	WADE		CERTIFICATION	STAMP AS CO	
ATED BRA YER, DISH /E A STAIN	WASHER CONNEC 75000 NLESS STEEL CAS	TION, AND DISPOSAL II ZURN 5ING, FLEXIBLE MECHAN	= REQUIRED BY A Z1700	WADE		CERTIFICATION	STAMP AS CO	
ATED BRA AYER, DISH TE A STAIN THE PLUMB	WASHER CONNEC 75000 NLESS STEEL CAS BING AND DRAINAG	TION, AND DISPOSAL II ZURN SING. FLEXIBLE MECHAN GE INSTITUTE.	FREQUIRED BY A	WADE RESSURIZED INERT GA	AS CHAMBER AND	-	-	
ATED BRA YER, DISH E A STAIN HE PLUMB	WASHER CONNEC 75000 NLESS STEEL CAS BING AND DRAINAG	JOSAM	FREQUIRED BY A	WADE RESSURIZED INERT GA	AS CHAMBER AND	-	-	
ATED BRA YER, DISH E A STAIN HE PLUMB	WASHER CONNEC 75000 NLESS STEEL CAS BING AND DRAINAG	JOSAM	FREQUIRED BY A	WADE RESSURIZED INERT GA	AS CHAMBER AND	-	-	
LATED BRA AYER, DISH VE A STAIN THE PLUMB	WASHER CONNEC 75000 NLESS STEEL CAS BING AND DRAINAG	JOSAM	FREQUIRED BY A	WADE RESSURIZED INERT GA	AS CHAMBER AND	-	-	
ATED BRA YER, DISH E A STAIN HE PLUMB	WASHER CONNEC 75000 ALESS STEEL CAS BING AND DRAINAG Z665 TRENCH DRAIN, 12" MR-500	SIOUX CHIEF	FREQUIRED BY A	WADE RESSURIZED INERT GA	AS CHAMBER AND	- D LENGTH WITH A	- RCHITECT -	3"
TED BRA YER, DISH E A STAIN E PLUMB	WASHER CONNEC 75000 ALESS STEEL CAS BING AND DRAINAG Z665 TRENCH DRAIN, 12" MR-500	TION, AND DISPOSAL II ZURN SING, FLEXIBLE MECHAN RE INSTITUTE. JOSAM WIDE, WITH HEAVY DUTY	FREQUIRED BY A	WADE RESSURIZED INERT GA	AS CHAMBER AND	- D LENGTH WITH A	- RCHITECT -	3"
ATED BRA AYER, DISH VE A STAIN THE PLUMB	WASHER CONNEC 75000 ALESS STEEL CAS BING AND DRAINAG Z665 TRENCH DRAIN, 12" MR-500	SIOUX CHIEF	FREQUIRED BY A	WADE RESSURIZED INERT GA	AS CHAMBER AND	- D LENGTH WITH A	- RCHITECT -	3"
PLATED BRA RAYER, DISH AVE A STAIN THE PLUMB	WASHER CONNEC 75000 ALESS STEEL CAS BING AND DRAINAG Z665 TRENCH DRAIN, 12" MR-500	SIOUX CHIEF	FREQUIRED BY A	WADE RESSURIZED INERT GA	AS CHAMBER AND	- D LENGTH WITH A	- RCHITECT -	3"
PLATED BRA RAYER, DISH IAVE A STAIN THE PLUMB	WASHER CONNEC 75000 NLESS STEEL CAS ING AND DRAINAG Z665 TRENCH DRAIN, 12* MR-500	TION, AND DISPOSAL II ZURN SING, FLEXIBLE MECHAN BE INSTITUTE. JOSAM WIDE, WITH HEAVY DUTY SIOUX CHIEF ITH INLET OPENING OF	FREQUIRED BY A	WADE RESSURIZED INERT GA	AS CHAMBER AND	- D LENGTH WITH A	- RCHITECT -	3"
PLATED BRA RAYER, DISH AVE A STAIN THE PLUMB	WASHER CONNEC 75000 NLESS STEEL CAS NING AND DRAINAG Z665 TRENCH DRAIN, 12" MR-500 SEAL PRIMER, W	SLOAN	FREQUIRED BY A	WADE RESSURIZED INERT GA	AS CHAMBER AND	-) LENGTH WITH A 1/2" P.T SERVES UP	- RCHITECT -	3"
PLATED BRA RAYER, DISH	WASHER CONNEC 75000 NLESS STEEL CAS NING AND DRAINAG Z665 TRENCH DRAIN, 12" MR-500 SEAL PRIMER, W K-5016-ET ECOS 186 HWI	SIOUX CHIEF ITH INLET OPENING OF SLOAN	EREQUIRED BY A ZI700 ICAL BELLOWS, F DUCTILE IRON GRA I/2" MALE N.P.T. A SU7009	WADE RESSURIZED INERT GA	AS CHAMBER AND AS CHAMBER AND NATE LOCATION ANE OF FEMALE 1/2" N.F 6541.132	- D LENGTH WITH A	- RCHITECT -	3"
ATED BRA AYER, DISH	WASHER CONNEC 75000 ALESS STEEL CAS BING AND DRAINAG Z665 TRENCH DRAIN, 12" MR-500 SEAL PRIMER, W K-5016-ET ECOS 186 HWI Z-1221	SLOAN	EREQUIRED BY A ZI700 NICAL BELLOWS, F DUCTILE IRON GRA DUCTILE IRON GRA 1/2" MALE N.P.T. A SU7009 636	WADE RESSURIZED INERT GA	AS CHAMBER AND AS CHAMBER AND NATE LOCATION AND OF FEMALE 1/2" N.F 6541.132 CA-311	- D LENGTH WITH A 1/2" P.T. SERVES UP 3/4"	- RCHITECT TO 6 FLOOR [3"
ATED BRA AYER, DISH TE A STAIN HE PLUMB CAST IRON	WASHER CONNEC 75000 ALESS STEEL CAS BING AND DRAINAG Z665 TRENCH DRAIN, 12" MR-500 SEAL PRIMER, W K-5016-ET ECOS 186 HWI Z-1221	SIOUX CHIEF ITH INLET OPENING OF SLOAN JR SMITH	EREQUIRED BY A ZI700 NICAL BELLOWS, F DUCTILE IRON GRA DUCTILE IRON GRA 1/2" MALE N.P.T. A SU7009 636	WADE RESSURIZED INERT GA	AS CHAMBER AND AS CHAMBER AND NATE LOCATION AND OF FEMALE 1/2" N.F 6541.132 CA-311	- D LENGTH WITH A 1/2" P.T. SERVES UP 3/4"	- RCHITECT TO 6 FLOOR [3"
ATED BRA AYER, DISH VE A STAIN THE PLUMB CAST IRON	WASHER CONNEC 75000 ALESS STEEL CAS BING AND DRAINAG Z665 TRENCH DRAIN, 12" MR-500 SEAL PRIMER, W K-5016-ET ECOS 186 HWI Z-1221	SIOUX CHIEF ITH INLET OPENING OF SLOAN JR SMITH	EREQUIRED BY A ZI700 NICAL BELLOWS, F DUCTILE IRON GRA DUCTILE IRON GRA 1/2" MALE N.P.T. A SU7009 636	WADE RESSURIZED INERT GA	AS CHAMBER AND AS CHAMBER AND NATE LOCATION AND OF FEMALE 1/2" N.F 6541.132 CA-311	- D LENGTH WITH A 1/2" P.T. SERVES UP 3/4"	- RCHITECT TO 6 FLOOR [3"
PLATED BRA RAYER, DISH	WASHER CONNEC 75000 ALESS STEEL CAS BING AND DRAINAG Z665 TRENCH DRAIN, 12" MR-500 SEAL PRIMER, W K-5016-ET ECOS 186 HWI Z-1221	SIOUX CHIEF ITH INLET OPENING OF SLOAN JR SMITH	EREQUIRED BY A ZI700 NICAL BELLOWS, F DUCTILE IRON GRA DUCTILE IRON GRA 1/2" MALE N.P.T. A SU7009 636	WADE RESSURIZED INERT GA	AS CHAMBER AND AS CHAMBER AND ATE LOCATION AND OF FEMALE 1/2" NF 6541.132 CA-31 CHROME PLATED F	- D LENGTH WITH A 1/2" P.T. SERVES UP 3/4"	- RCHITECT TO 6 FLOOR [3"
PLATED BRA RAYER, DISH	WASHER CONNEC 75000 NLESS STEEL CAS NING AND DRAINAG Z665 TRENCH DRAIN, 12" MR-500 SEAL PRIMER, W K-5016-ET ECOS 186 HW1 Z-1221 IINA WITH A WHIT	SIOUX CHIEF ING. FLEXIBLE MECHAN DISAM WIDE, WITH HEAVY DUTY SIOUX CHIEF ITH INLET OPENING OF SLOAN DELANY JR SMITH E FINISH AND 3/4" TOF	EREQUIRED BY A ZI700 ICAL BELLOWS, F DUCTILE IRON GRA DUCTILE IRON GRA I/2" MALE N.P.T. A SU7009 636 SU7009 636	WADE RESSURIZED INERT GA	AS CHAMBER AND AS CHAMBER AND ATE LOCATION AND OF FEMALE 1/2" NF 6541.132 CA-31 CHROME PLATED F	- D LENGTH WITH A 1/2" P.T. SERVES UP 3/4"	- RCHITECT TO 6 FLOOR [3" - DRAIN 2" - ME
PLATED BRA RAYER, DISH AVE A STAIN THE PLUMB D CAST IRON BRASS TRAP	WASHER CONNEC 75000 NESS STEEL CAS NG AND DRAINAG Z665 TRENCH DRAIN, 12* MR-500 SEAL PRIMER, W K-5016-ET ECOS 186 HWI Z-1221 INA WITH A WHIT K-4325	SLOAN SLOAN SLOAN SLOAN	EREQUIRED BY A ZI700 NICAL BELLOWS, F DUCTILE IRON GRA DUCTILE IRON GRA 1/2" MALE N.P.T. A SU7009 636 SU7009 636 SPUD, EXPOSED	WADE RESSURIZED INERT GA JR SMITH TE AND FRAME. COORDI ZURN ND OUTLET OPENING AMERICAN STANDARD ZURN WATTS HARDWIRED SENSOR, AMERICAN STANDARD	AS CHAMBER AND AS CHAMBER AND NATE LOCATION AND OF FEMALE 1/2" NF 6541.132 CA-31 CHROME PLATED F	- D LENGTH WITH A 1/2" P.T SERVES UP 3/4"	- RCHITECT TO 6 FLOOR [3"
PLATED BRA RAYER, DISH AVE A STAIN THE PLUMB ED CAST IRON BRASS TRAP	WASHER CONNEC 75000 NESS STEEL CAS NG AND DRAINAG Z665 TRENCH DRAIN, 12" MR-500 SEAL PRIMER, W K-5016-ET ECOS 186 HWI Z-1221 INA WITH A WHIT K-4325 I655SSC	SLOAN SLOAN KOHLER	EREQUIRED BY A ZI700 NICAL BELLOWS, F DUCTILE IRON GRA DUCTILE IRON GRA 1/2" MALE N.P.T. A SU7009 636 SU7009 636 SPUD, EXPOSED	WADE RESSURIZED INERT GA	AS CHAMBER AND AS CHAMBER AND NATE LOCATION AND OF FEMALE 1/2" NF 6541.132 CA-31 CHROME PLATED F	- D LENGTH WITH A 1/2" P.T. SERVES UP 3/4" =LUSH VALVE W	- RCHITECT TO 6 FLOOR [3"
PLATED BRA RAYER, DISH	WASHER CONNEC 75000 NESS STEEL CAS SING AND DRAINAG Z665 TRENCH DRAIN, 12" MR-500 SEAL PRIMER, W K-5016-ET ECOS 186 HWI Z-1221 IINA WITH A WHIT K-4325 I655SSC ECOS 18-101 ALL BE MADE OF	SION, AND DISPOSAL II ZURN SING, FLEXIBLE MECHAN DELANY SIOUX CHIEF ITH INLET OPENING OF SLOAN DELANY JR SMITH E FINISH AND 3/4" TOP SLOAN KOHLER DELANY ZURN	 REQUIRED BY A ZI700 NCAL BELLOWS, F DUCTILE IRON GRA DUCTILE IRON GRA NP.T. A SU7009 636 SPUD, EXPOSED ST-2429 K-4670-C-0 A WHITE FINISH A 	WADE RESSURIZED INERT GA	AS CHAMBER AND NATE LOCATION AND OF FEMALE 1/2" N.F 6541.132 CA-311 CHROME PLATED F 9500C	- D LENGTH WITH A 1/2* 7.T.: SERVES UP 3/4* ELUSH VALVE W TRA HEAVY WE	- RCHITECT TO 6 FLOOR [3" - DRAIN 2" ME 4" ASTIC
TOILET SHA	WASHER CONNEC 75000 NESS STEEL CAS SING AND DRAINAG Z665 TRENCH DRAIN, 12" MR-500 SEAL PRIMER, W K-5016-ET ECOS 186 HWI Z-1221 IINA WITH A WHIT K-4325 I655SSC ECOS 18-101 ALL BE MADE OF	SLOAN SLOAN SLOAN SLOAN KOHLER DELANY ZURN	 REQUIRED BY A ZI700 NCAL BELLOWS, F DUCTILE IRON GRA DUCTILE IRON GRA NP.T. A SU7009 636 SPUD, EXPOSED ST-2429 K-4670-C-0 A WHITE FINISH A 	WADE RESSURIZED INERT GA	AS CHAMBER AND NATE LOCATION AND OF FEMALE 1/2" N.F 6541.132 CA-311 CHROME PLATED F 9500C	- D LENGTH WITH A 1/2* 7.T.: SERVES UP 3/4* ELUSH VALVE W TRA HEAVY WE	- RCHITECT TO 6 FLOOR [3" - DRAIN 2" ME 4" ASTIC
PLATED BRA RAYER, DISH AVE A STAIN THE PLUMB D CAST IRON BRASS TRAP	WASHER CONNEC 75000 NESS STEEL CAS SING AND DRAINAG Z665 TRENCH DRAIN, 12" MR-500 SEAL PRIMER, W K-5016-ET ECOS 186 HWI Z-1221 IINA WITH A WHIT K-4325 I655SSC ECOS 18-101 ALL BE MADE OF	SION, AND DISPOSAL II ZURN SING, FLEXIBLE MECHAN DELANY SIOUX CHIEF ITH INLET OPENING OF SLOAN DELANY JR SMITH E FINISH AND 3/4" TOP SLOAN KOHLER DELANY ZURN	 REQUIRED BY A ZI700 NCAL BELLOWS, F DUCTILE IRON GRA DUCTILE IRON GRA NP.T. A SU7009 636 SPUD, EXPOSED ST-2429 K-4670-C-0 A WHITE FINISH A 	WADE RESSURIZED INERT GA	AS CHAMBER AND AS CHAMBER AND NATE LOCATION AND OF FEMALE 1/2" N.F 6541.132 CA-311 CHROME PLATED F 9500C 9500C	- D LENGTH WITH A 1/2* 7.T.: SERVES UP 3/4* ELUSH VALVE W TRA HEAVY WE	- RCHITECT TO 6 FLOOR [3" - DRAIN 2" ME 4" ASTIC
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TOILET SHA	WASHER CONNEC 75000 NESS STEEL CAS NG AND DRAINAG Z665 TRENCH DRAIN, 12" MR-500 SEAL PRIMER, W K-5016-ET ECOS 186 HWI Z-1221 INA WITH A WHIT K-4325 I655SSC ECOS 18-101 ALL BE MADE OF K-4325	SLOAN SLOAN	E REQUIRED BY A ZI700 NCAL BELLOWS, F DUCTILE IRON GRA DUCTILE IRON GRA 1/2" MALE N.P.T. A SU7009 636 SU7009 636 SU7009 636 SU7009 636 SU7009 636 SU7009 636 ST-2429 K-4670-C-0 ST-2429 K-4670-C-0	WADE RESSURIZED INERT GA	AS CHAMBER AND AS CHAMBER AND NATE LOCATION AND OF FEMALE 1/2" N.F 6541.132 CA-311 CHROME PLATED F 9500C 9500C 5EAT SHALL BE EX WITH 1 1/2" CHROM	- D LENGTH WITH A 1/2* 7.T.: SERVES UP 3/4* ELUSH VALVE W TRA HEAVY WE	- RCHITECT TO 6 FLOOR [3" - RAIN 2" 4" 4. 4. 4. 4. 4. 4. 4
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	TEMS, SERVICE SYSTEMS AND HOD OF COMPLIANCE
PRESCRIPTIVE	ENERGY COST BUDGET
THERMAL ZONE 3A	
EXTERIOR DESIGN COND winter dry bulb: 22° summer dry bulb: 96' relative humidity: 46	F ?F
INTERIOR DESIGN COND winter dry bulb: 70° summer dry bulb: 74 relative humidity: 50	F °F
BUILDING HEATING LOAI	D: BLOCK LOAD = 939.3 MBH
BUILDING COOLING LOAD	D: BLOCK LOAD = 1393.1 MBH (116 TONS)
Chiller: 117.0 TONS	t: y: t: unit: see schedules on sheet(s) M3.1 ity. If oversized state reason.
total chiller capa	city. If oversized state reason.
LIST EQUIPMENT EFFICI	ENCIES: SEE SCHEDULES ON SHEET(S) M3.1
EQUIPMENT SCHEDULES motor horsepower: number of phases: minimum efficiency: motor type: # of poles:	WITH MOTORS (MECHANICAL SYSTEMS)
DESIGNER STATE	MENT
systems, service systems	lge and belief, the design of this building complies with the mecha and equipment requirements of the North Carolina State Energy C
SIGNED:	
NAME:Patrick J. Mo	Cabe, PE

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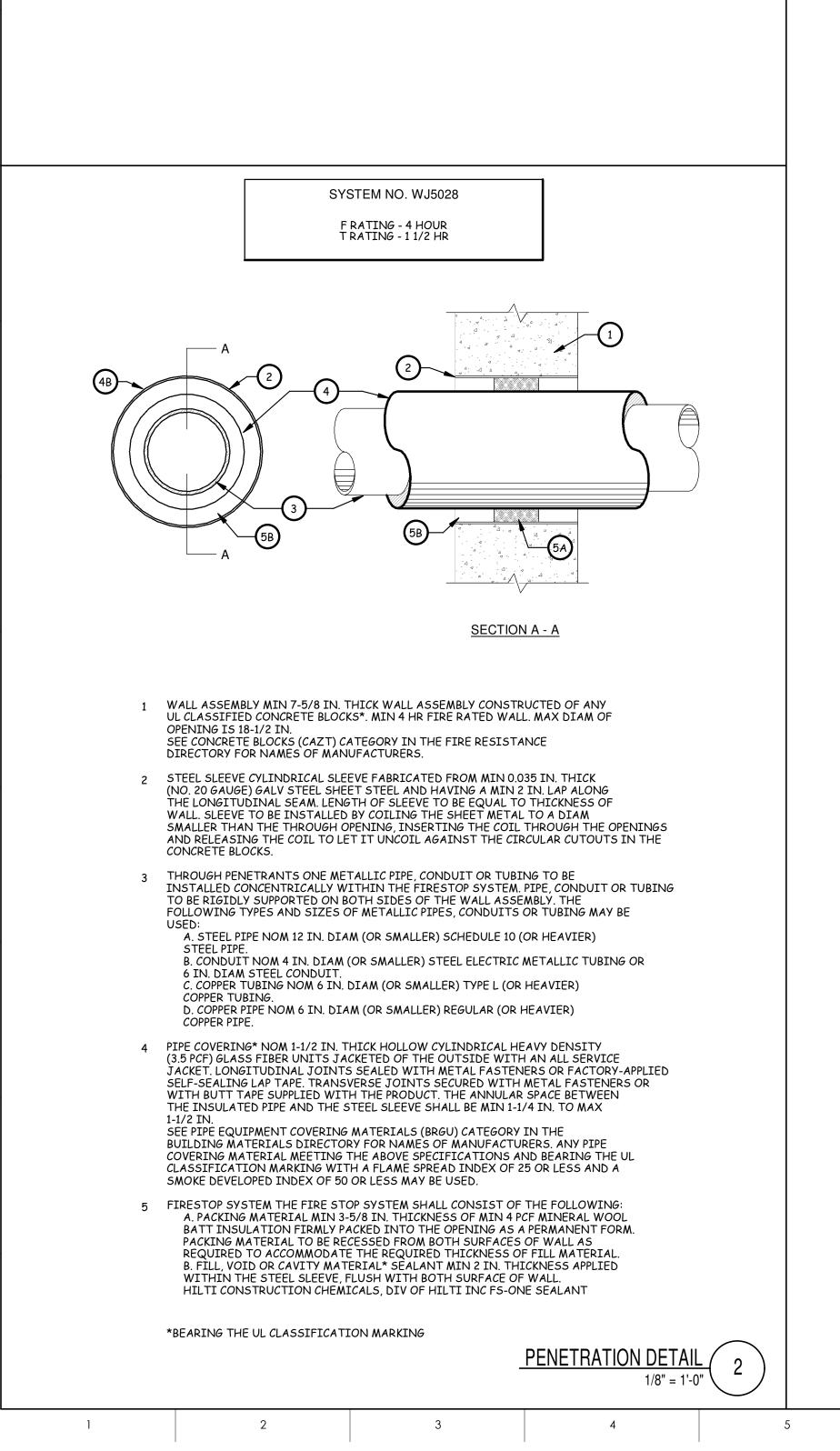
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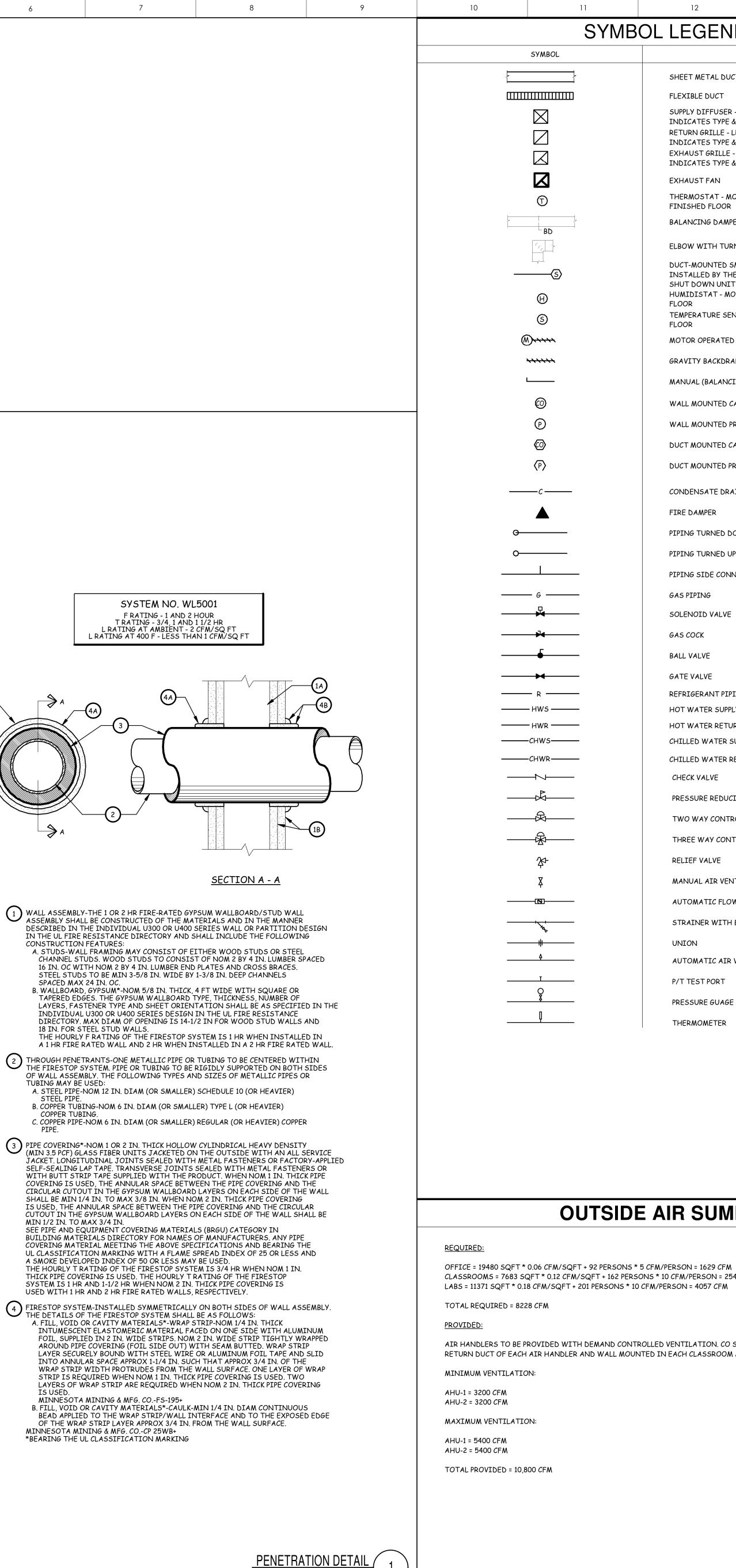
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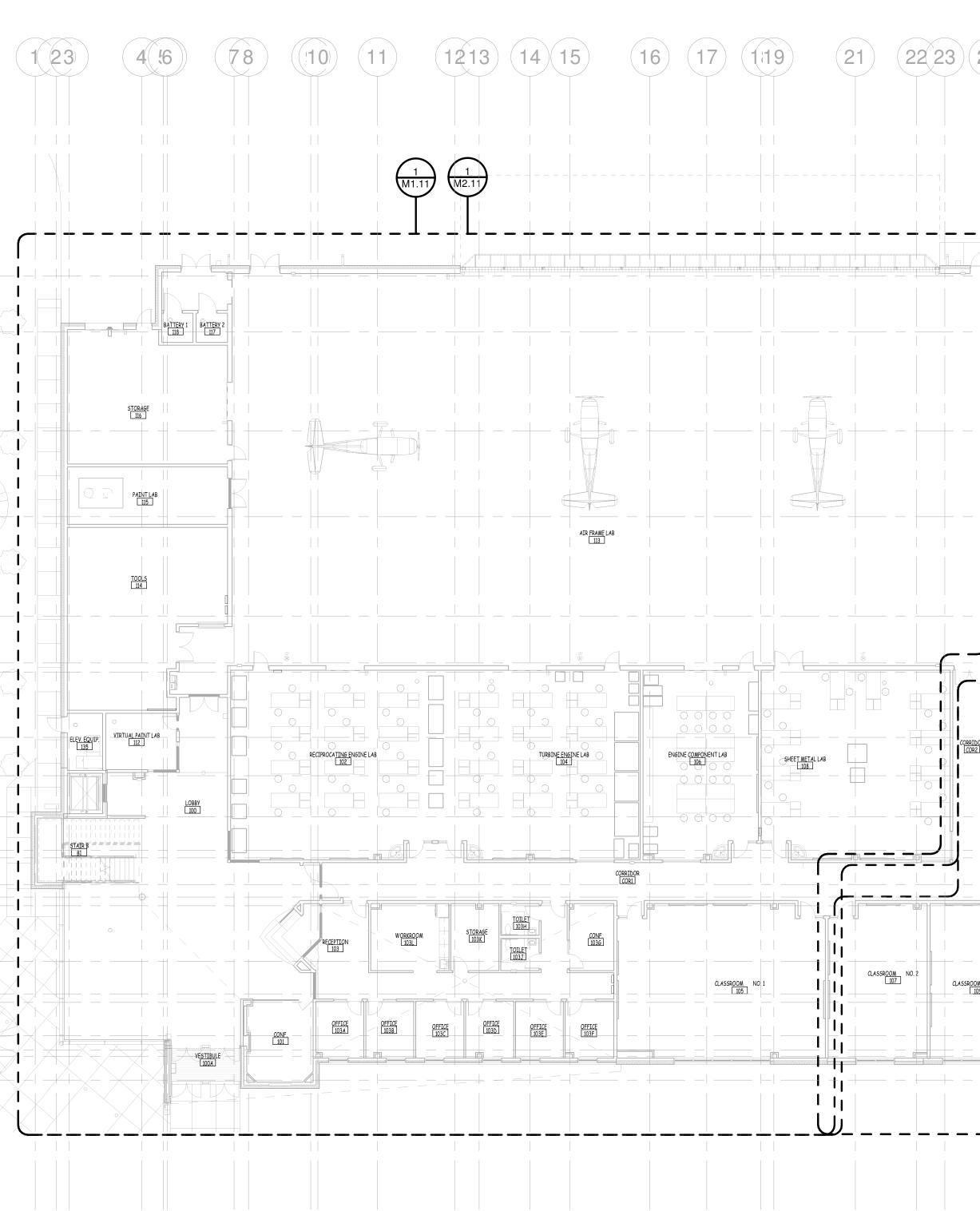
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S Y IV	IBOL LEGEND DESCRIPTION		GENERAL NOTES
ļ	SHEET METAL DUCT	1.	ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE STATE CODE, ALL LOCAL AND OTHER APPLICABLE CODES
	FLEXIBLE DUCT	2.	ANY PERMITS AND INSPECTION FEES SHALL BE SECURED AND PAID FOR BY THE MECHANICAL CONTRACTOR (M.C).
\boxtimes	SUPPLY DIFFUSER - LETTER & NUMBER INDICATES TYPE & CFM	3.	ALL WORK SHALL BE PERFORMED BY EXPERIENCED AND SKILLED CRAFTSMAN. THE M.C. SHALL COORDINATE ALL OF HIS WORK WITH ALL OTHER CONTRACTORS PRIOR TO INSTALLATION OF ANY PIPING, DUCTWORK, OR EQUIPMENT.
\square	RETURN GRILLE - LETTER & NUMBER INDICATES TYPE & CFM	4.	THE MECHANICAL PLANS AND SPECIFICATIONS SHALL BE THOROUGHLY REVIEWED PRIOR TO PURCHASING MATERIALS AND INSTALLATION. ALL DISCREPANCIES OR INTERFERENCES SHALL BE BROUGHT TO THE ENGINEERS' ATTENTION.
	EXHAUST GRILLE - LETTER & NUMBER INDICATES TYPE & CFM	5.	IT WILL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR TO ENSURE THAT ITEMS TO BE FURNISHED
Z	EXHAUST FAN THERMOSTAT - MOUNTED 48" ABOVE		UNDER HIS CONTRACT WILL FIT IN THE SPACE AVAILABLE. HE SHALL MAKE NECESSARY FIELD MEAUSUREMENTS TO ASCERTAIN SPACE REQUIREMENTS, INCLUDING THOSE FOR CONNECTIONS, AND SHALL FURNISH AND INSTALL SUCH SIZES AND SHAPES OF EQUIPMENT THAT ARE THE TRUE INTENT AND MEANING OF THE PLANS AND SPECIFICATIONS.
①	FINISHED FLOOR		HE SHALL PROVIDE TO THE ENGINEER, SCALED DRAWINGS OF ALL MECHANICAL SPACES.
BD	BALANCING DAMPER	6.	ALL EQUIPMENT SHALL BE LOCATED AND INSTALLED TO PROVIDE MAXIMUM SPACE FOR PROPER MAINTENANCE AND SERVICE. FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR ACCESS CLEARANCE.
	ELBOW WITH TURNING VANES DUCT-MOUNTED SMOKE DETECTOR - PROVIDED BY E.C. &	7.	THE MECHANICAL CONTRACTOR SHALL PROVIDE AND INSTALL HIS OWN SUPPORT DEVICES. ALL LOCATIONS SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR AND OTHER PRIME CONTRACTORS PRIOR TO INSTALLATION.
S	INSTALLED BY THE MECHANICAL CONTRACTOR - WIRE TO SHUT DOWN UNIT	8.	THESE PLANS ARE DIAGRAMMATIC AND MAY NOT SHOW MINOR DETAILS AND LOCATIONS. FOR DIMENSIONS, REFER TO THE ARCHITECTURAL PLANS.
θ	HUMIDISTAT - MOUNTED 48" ABOVE FINISHED FLOOR	9.	INSTALL DUCTWORK IN CEILINGS HIGH ENOUGH TO AVOID LIGHTS, CONDUIT, AND MISCELLANEOUS PIPING, BUT
6	TEMPERATURE SENSOR - MOUNTED 48" ABOVE FINISHED FLOOR	10	LOW ENOUGH TO ALLOW ACCESS TO SYSTEM BALANCING DAMPERS.
````		10.	THE MECHANICAL CONTRACTOR SHALL COORDINATE SIZE AND LOCATION OF ALL PENETRATIONS THROUGH THE ROOF WITH THE GENERAL CONTRACTOR AND THE ROOFING CONTRACTOR.
<u> </u>	GRAVITY BACKDRAFT DAMPER MANUAL (BALANCING) DAMPER	11.	ALL PIPE PENETRATIONS OF FLOORS AND WALLS SHALL BE FIRE SEALED IN ACCORDANCE WITH THE LATEST UL STANDARDS. REFER TO MECHANICAL DETAILS FOR PENETRATION OF RATED ASSEMBLIES.
0	WALL MOUNTED CARBON DIOXIDE SENSOR	12.	THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING OF FLOORS AND WALLS PERTAINING TO HIS WORK, UNLESS OTHERWISE NOTED.
Ð	WALL MOUNTED PRESSURE SENSOR	13.	THE M.C. SHALL BE RESPONSIBLE FOR ALL ELECTRICAL STARTERS, INTERLOCKS, CONTROL WIRING. THE ELECTRICAL
	DUCT MOUNTED CARBON DIOXIDE SENSOR		CONTRACTOR SHALL PROVIDE POWER WIRING, CONDUIT FROM THE DISCONNECT TO M.C. EQUIPMENT. THE M.C. SHALL BE RESPONSIBLE FOR ALL FINAL CONNECTION TO HIS EQUIPMENT.
P	DUCT MOUNTED PRESSURE SENSOR	14.	INSTALL FLEXIBLE CONNECTORS ON SUPPLY AND RETURN DUCTWORK AT ALL AIR HANDLING UNITS, FANS, ETC
- <i>C</i>	CONDENSATE DRAIN	15.	PROVIDE SHEET METAL COLLARS AT ALL LOCATIONS WHERE DUCTS PENETRATE WALLS, UNLESS OTHERWISE NOTED. COLLARS SHALL BE 14 GAUGE MINIMUM OR EQUIVALENT TO THE DUCT IF DUCTWORK IS OF HEAVIER GAUGE METAL.
	FIRE DAMPER	16.	PROVIDE FIRE DAMPERS AT DUCT PENETRATIONS THROUGH THE FIRE RATED WALLS AS SHOWN ON THE PLANS AND AS REQUIRED BY CODE. ALL OPENINGS AROUND DUCT PENETRATIONS MUST BE SEALED WITH FIRE STOPPING
	PIPING TURNED DOWN		MATERIAL IN ACCORDANCE WITH THE LATEST UL STANDARDS.
	PIPING TURNED UP	17.	INSTALL TURNING VANES IN SUPPLY DUCTS AT ELBOWS. PROVIDE BALANCING AND SPLITTER DAMPERS WHERE SHOWN AND AS REQUIRED FOR SYSTEM BALANCING.
	PIPING SIDE CONNECTION	18.	ALL THERMOSTATS, WIRING AND CONDUIT ARE TO BE FURNISHED BY THE M.C. MOUNT THERMOSTATS AND SERNSORS 4'-0" ABOVE THE FLOOR, UNLESS OTHERWISE NOTED.
G	GAS PIPING SOLENOID VALVE	19.	THE M.C. SHALL INSURE THAT ALL MECHANICAL EQUIPMENT INSTALLED UNDER HIS CONTRACT SHALL OPERATE FREE
₹	GAS COCK	20.	OF OBJECTIONABLE NOISE AND VIBRATION. THE M.C. SHALL KEEP THE PREMISES CLEAR OF DEBRIS FROM HIS WORK DURING CONSTRUCTION AND LEAVE THE AREA
	BALL VALVE		AND BUILDING CLEAN AT THE COMPLETION OF HIS WORK. HE SHALL ALSO CLEAN ALL EXPOSED EQUIPMENT IN HIS CONTRACT.
₩	GATE VALVE	21.	FLEXIBLE DUCT RUNOUTS SHALL BE A MAXIMUM OF 10'-0".
R WS	REFRIGERANT PIPING	22.	ALL FLEXIBLE DUCT RUNOUTS SHALL INCLUDE INSULATED DAMPERED BOOTS AT THE POINT OF CONNECTION WITH RECTANGULAR DUCT. PROVIDE ALL FLEXIBLE DUCTWORK WITH FOIL-BACKED, EXTERNALLY WRAPPED INSULATION FOR
WR	HOT WATER SUPPLY PIPING HOT WATER RETURN PIPING	22	
1W5	CHILLED WATER SUPPLY PIPING	23.	ALL DUCTWORK SIZES SHOWN ARE ACTUAL SHEET METAL DIMENSIONS, UNLESS OTHERWISE NOTED. PROVIDE 2" EXTERIOR DUCT WRAP INSULATION ON ALL SUPPLY AIR DUCTS, RETURN AIR DUCTS, AND OUTSIDE AIR DUCTS. UNLESS NOTED OTHERWISE.
₩R	CHILLED WATER RETURN PIPING CHECK VALVE	24.	MECHANICAL CONTRACTOR SHALL WORK WITH TEST AND BALANCE CONTRACTOR TO REMEDY ANY DIFFERENCES TO
\$	PRESSURE REDUCING VALVE		INCLUDE FAN DRIVE CHANGES, INSTALLATION OF DAMPERS OR OTHER MINOR DUCT MODIFICATIONS TO PROVIDE AIRFLOW TO WITHIN +/- 10% OF THE DESIGN VALUES LISTED ON THESE PLANS.
\$	TWO WAY CONTROL VALVE	25.	CONTRACTOR SHALL PROVIDE TESTING OF ALL FIRE DAMPERS PRIOR TO SUBSTANTIAL COMPLETION. ENGINEER SHALL WITNESS TESTING OF FIRE DAMPER BY CONTRACTOR. CONTRACTOR SHALL SHUT ALL DAMPERS AND REOPEN TO
——	THREE WAY CONTROL VALVE		ENSURE ALL DAMPERS ARE CAPABLE OF CLOSING. CONTRACTOR SHALL PROVIDE ACCESS DOORS AS REQUIRED TO ACCESS DAMPER FOR TESTING.
谷	RELIEF VALVE	26.	INSTALL A RETURN AIR DUCTWORK MOUNTED SMOKE DETECTOR IN EACH UNIT. SMOKE DETECTOR PROVIDED BY ELECTRICAL CONTRACTOR AND INSTALLED BY MECHANICAL CONTRACTOR. WIRE TO SHUT DOWN UNIT. PROVIDE
X	MANUAL AIR VENT		AUXILIARY CONTACTS ON EACH DUCT DETECTOR FOR ALARM AND TROUBLE CONDITIONS. AUDIBLE AND VISUAL SIGNAL PROVIDE THROUGH FIRE ALARM CONTROL PANEL.
8]	AUTOMATIC FLOW CONTROL VALVE	27.	ALL EQUIPMENT PADS SHALL BE PAINTED YELLOW. PADS SHALL BE 6" WIDER THAN THE EQUIPMENT.
×4	STRAINER WITH BLOW DOWN	28.	MANUAL AIR VENTS SHALL BE INSTALLED AT ALL HIGH POINTS OF HYDRONIC PIPING SYSTEMS AS REQUIRED IN FIELD.
μ <u></u>	UNION AUTOMATIC AIR VENT	29.	ALL EXTERIOR WATER PIPING ABOVE GROUND SHALL BE WRAPPED WITH ELECTRIC HEAT TAPE PRIOR TO APPLYING THE INSULATION. WRAP INSULATION WITH ALUMINUM JACKET AND SEAL ALL JOINTS.
<u>I</u>	P/T TEST PORT	30.	LOCATE ALL VALVES A MAXIMUM OF 6'-0" ABOVE FINISHED FLOOR IN MECHANICAL ROOMS.
<u> </u>	PRESSURE GUAGE WITH SHUT-OFF COCK	31.	STENCIL ALL PIPE WITH IDENTIFICATION AND FLOW ARROW AT 10'-0" O.C. AT BOTH SIDES OF WALL PENETRATIONS, AND AT EACH TAKEOFF.
<u>μ</u>	THERMOMETER	32.	PROVIDE POLYESTER MERV 8 FILTERS ON ALL RETURN GRILLES DURING CONSTRUCTION.
		33.	ALL DUCT SHALL BE STORED OFFSITE UNTIL WEEK OF INSTALLATION. DUCTWORK WHILE STORED ON SITE SHALL
			HAVE ENDS PROTECTED WITH PLASTIC. INSTALLED DUCTWORK PRIOR TO FINAL CONEECTIONS SHALL HAVE ENDS COVERED AT THE END OF EACH DAY. NO EXCEPTIONS. APPLIES TO ALL DUCTWORK.
		34.	THE AIR HANDLING UNIT SHALL OPERATE AT ALL TIMES DURING OCCUPIED HOURS.
		35.	THE MECHANICAL CONTRACTOR SHALL PROVIDE THE ENGINEER WITH A SET OF AS-BUILT DRAWINGS UPON COMPLETION OF JOB.
		36.	THE MECHANICAL CONTRACTOR SHALL PROVIDE THE ENGINEER WITH A SET OF DUCT SHOP DRAWINGS FOR APPROVAL.
		37.	THE MECHANICAL CONTRACTOR SHALL PROVIDE THE ENGINEER WITH A BALANCE REPORT BY A CERTIFIED TEST AND BALANCE COMPANY.
		38.	THE OWNER SHALL BE TRAINED FOR PROPER OPERATION AND MAINTENANCE OF ALL SYSTEMS. TRAINING SHALL BE VIDEOED FOR FUTURE REFERENCE AND DELIVERED TO OWNER IN MP4 FORMAT ON FLASH DRIVE. A MINIMUM OF FOUR
OUTSI	DE AIR SUMMARY		HOURS OF TRAINING FOR ALL AHU'S, CHILLED WATER AND HOT WATER SYSTEMS SHALL BE PROVIDED FOR UP TO 6 OWNER REPRESENTATIVES. AN ADDITIONAL 8 HOURS OF TRAINING SHALL BE PROVIDED FOR CONTROL SYSTEMS FOR
		39.	UP TO 6 OWNER REPRESENTATIVES. ALL MECHANICAL SYSTEMS WILL BE COMMISSIONED. MECHANICAL CONTRACTOR, TEST AND BALANCE AND CONTROLS
)6 CFM/SQFT + 92 PFD 50	NS * 5 CFM/PERSON = 1629 CFM		SUB-CONTRACTORS SHALL PROVIDE ANY AND ALL SUPPORT FOR COMMISSIONING PROCESS.
T * 0.12 CFM/SQFT + 162 F	PERSONS * 10 CFM/PERSON = 2542 CFM 5 * 10 CFM/PERSON = 4057 CFM	40.	PROVIDE PERMIT LABEL ENGRAVED PLASTIC LAMINATE MECHANICALLY FASTENED TO OUTDOOR UNITS. LABEL CEILING GRID WHERE EQUIPMENT IS LOCATED ABOVE LAY-IN CEILING. WITH EQUIPMENT IDENTIFIER. ALSO
CFM		41.	LABEL ALL TEMPERATURE SENSORS AND THERMOSTATS WITH EQUIPMENT IDENTIFIER.
	ONTROLLED VENTILATION. CO SENSORS TO BE LOCATED IN MOUNTED IN EACH CLASSROOM AND LAB SPACE.		
			COORDINATION DRAWINGS
		тия	E GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING COORDINATION DRAWINGS TO IDENTIFY
		ANI	D RESOLVE INSTALLATION OF ALL PIPE, DUCT, EQUIPMENT, CONDUIT, HANGERS, ETC. NECESSARY FOR MPLETE AND OPERATIONAL PLUMBING, MECHANICAL, FIRE PROTECTION, ELECTRICAL, AND FIRE ALARM
CFM		SYS PRO	STEMS SHOWN ON THESE DRAWINGS. CONTRACTOR SHALL INCLUDE WEEKLY MEETING TO FACILITATE THE DOUCTION OF COORDINATION DRAWINGS. IT SHALL BE THE GENERAL CONTRACTOR'S RESPONSIBILITY THAT
			. TRADES PARTICIPATE IN PREPARATION OF COORDINATION DRAWINGS AND THE INSTALLATION OF WORK IN ACCORDANCE WITH DRAWINGS. SEE SPECIFICATION SECTION 01300.
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Engineers, PA	
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1505 ST. JAMES PLACE	
KINSTON, NC 28504 (252) 527-3336	
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LENOIR COMMUNITY COLLEGE NEW AVIATION CENTER FOR EXCELLENCE	
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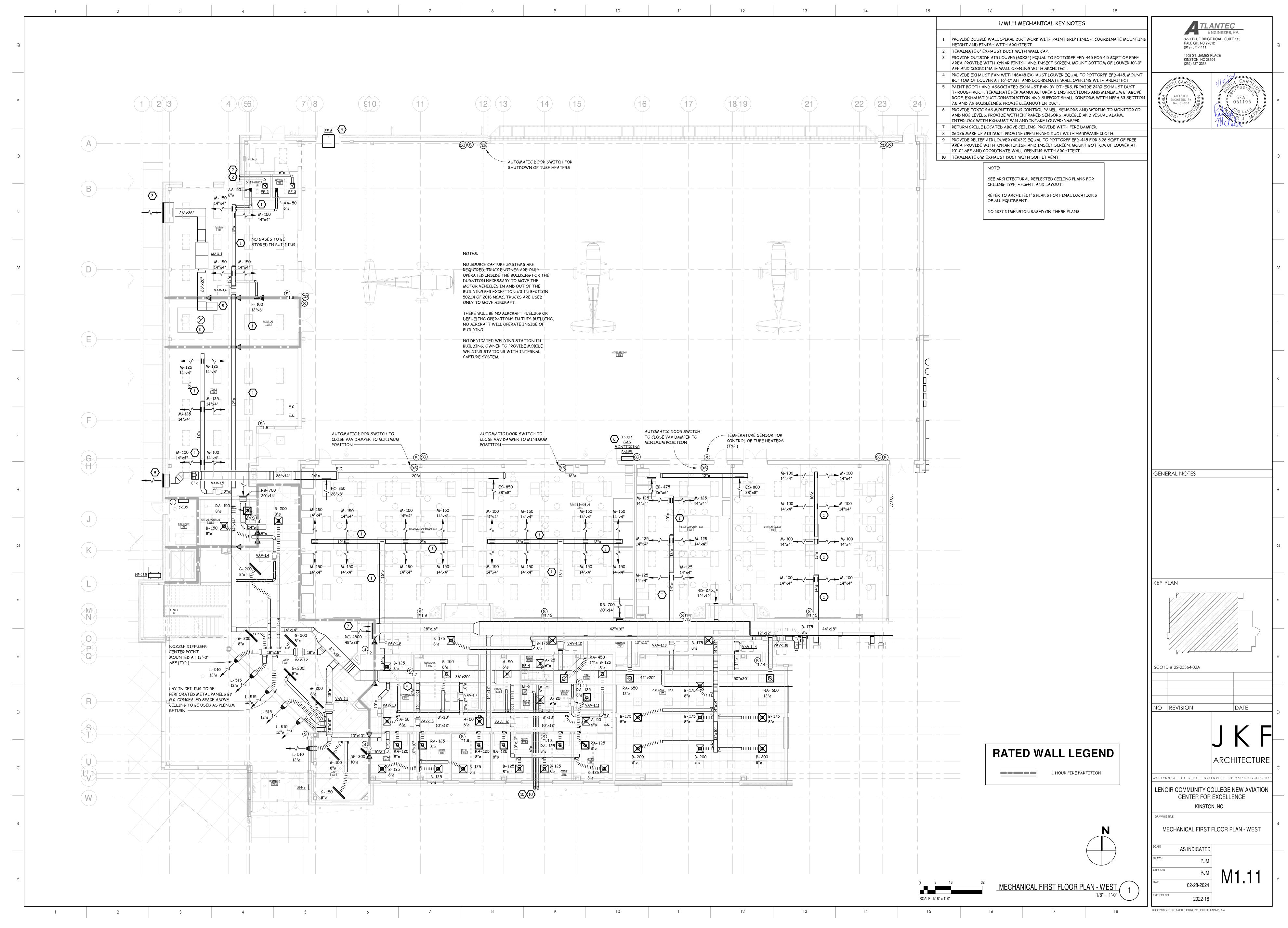
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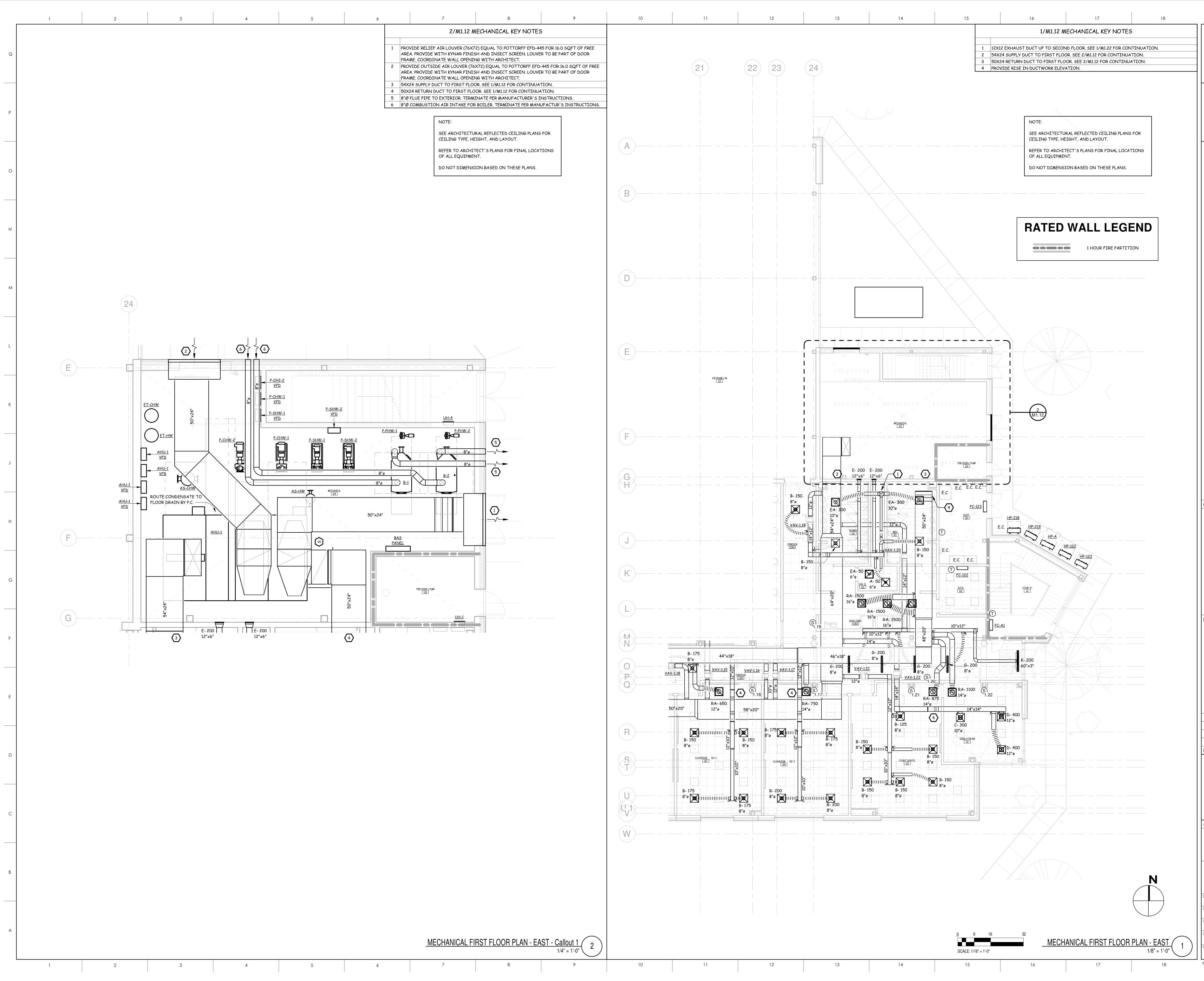
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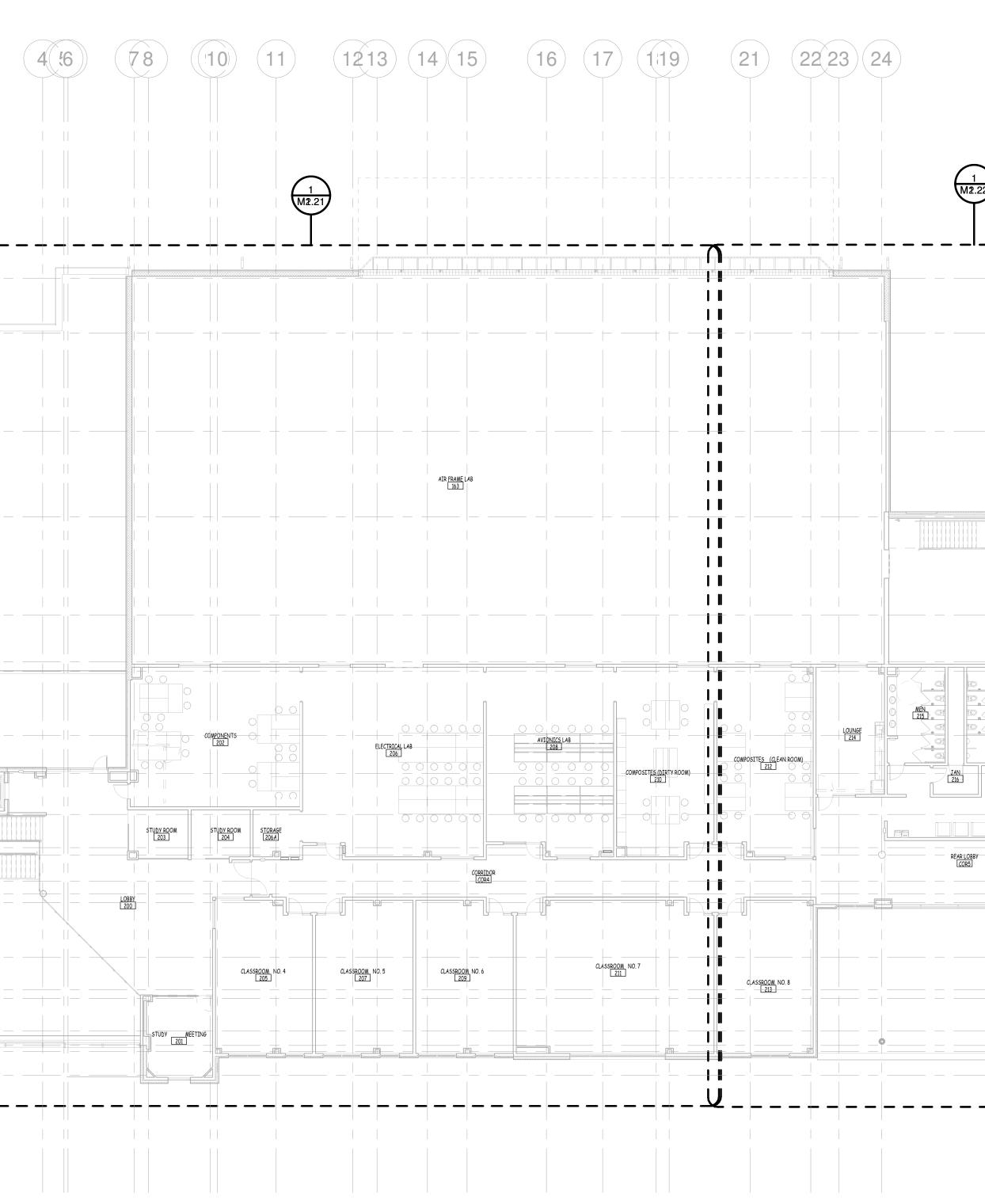
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LENOIR COMMUNITY COLLEGE NEW AVIATION CENTER FOR EXCELLENCE KINSTON, NC DRAWING TITLE OVERALL FIRST FLOOR MECHANICAL PLAN	В
SCALE PJM DRAWN PJM CHECKED PJM DATE 02-28-2024 PROJECT NO. 2022-18	A





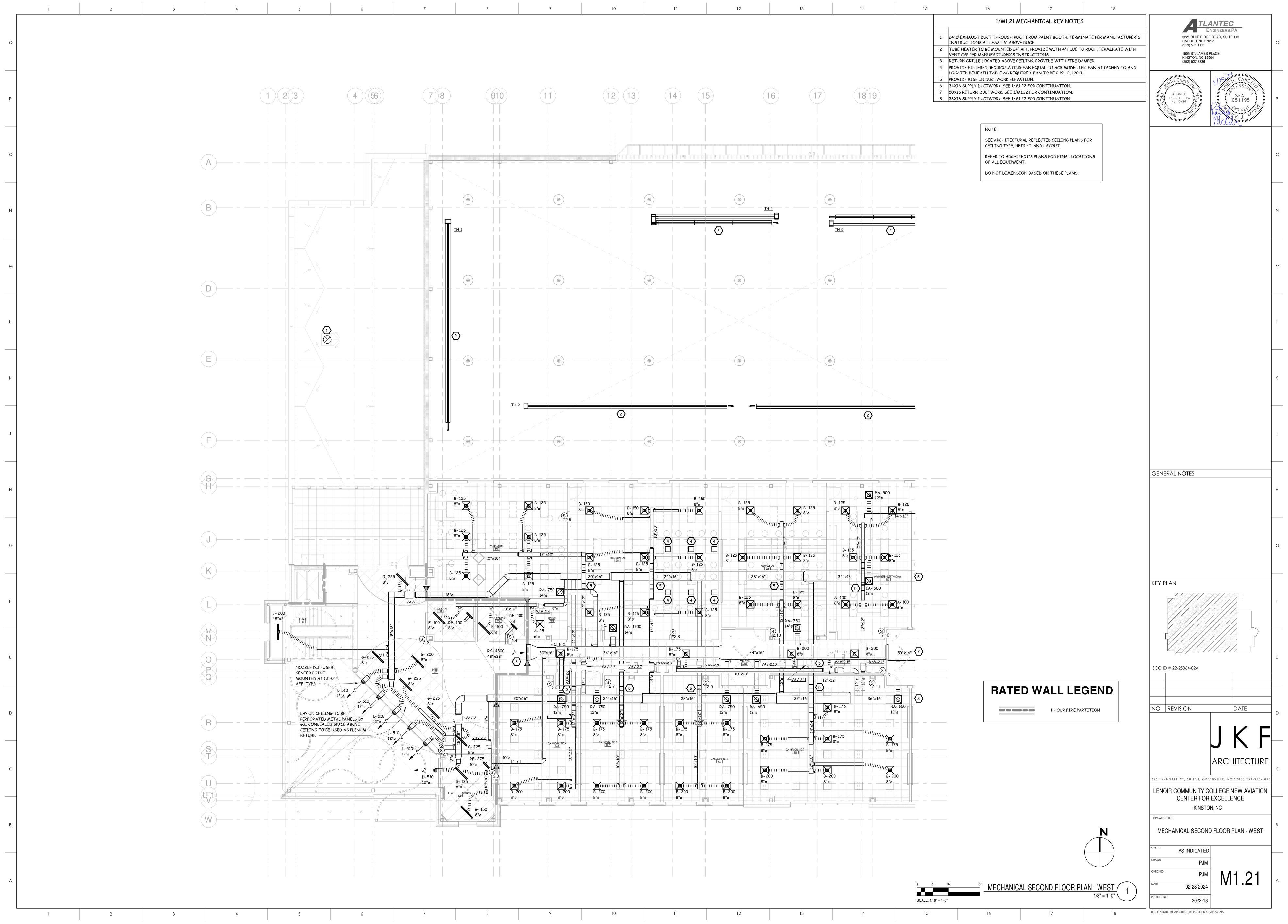
TLANTEC ENGINEERS, PA	
3221 BLUE RIDGE ROAD, SUITE 113 RALEIGH, NC 27612 (919) 571-1111	Q
1505 ST. JAMES PLACE KINSTON, NC 28504 (252) 527-3336	
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\$25 LYNNDALE CT., SUITE F, GREENVILLE, NC 27858 252-355-1068	
LENOIR COMMUNITY COLLEGE NEW AVIATION CENTER FOR EXCELLENCE	
KINSTON, NC	
	В
MECHANICAL FIRST FLOOR PLAN - EAST	
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PJM	
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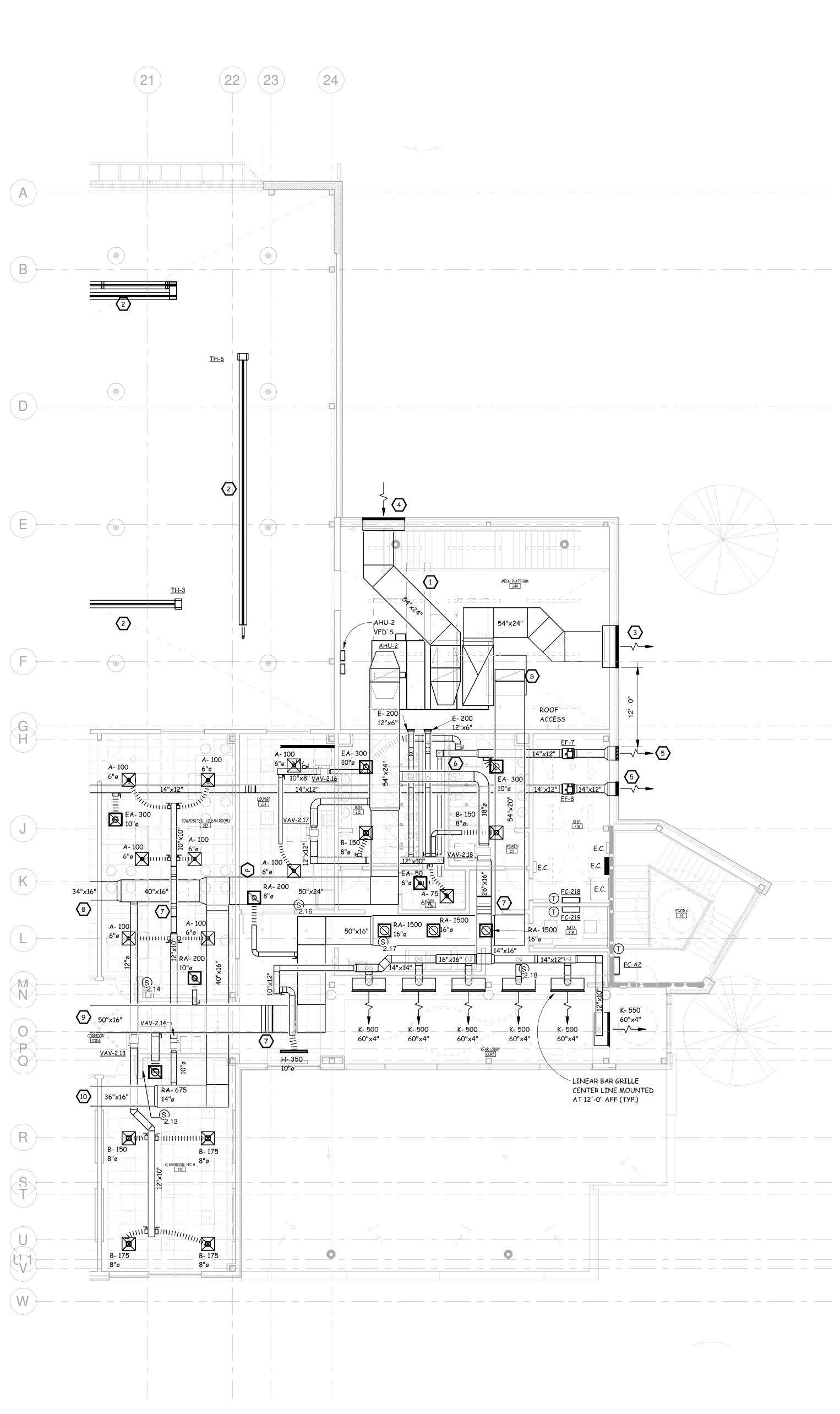


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3221 BLUE RIDGE ROAD, SUITE 113 RALEIGH, NC 27612 (919) 571-1111 1505 ST. JAMES PLACE KINSTON, NC 28504 (252) 527-3336	G
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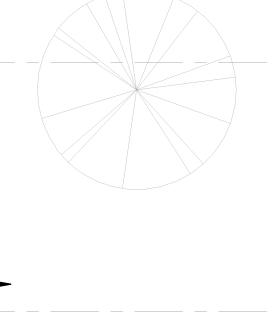


13 14	15		16	17	18
			1/M1.22 <i>N</i>	ECHANICAL KEY NOT	ËS
			VIDE COMPRESSED AIR LINE PR APRESSOR OPERATION. SEE PLU		AND CT TO MONITOR
			E HEATER TO BE MOUNTED 24' IT CAP PER MANUFACTURER'S IN		TO ROOF. TERMINATE WITH
		ARE	VIDE RELIEF AIR LOUVER (76X7 A. PROVIDE WITH KYNAR FINIS WALL OPENING WITH ARCHIT	HAND INSECT SCREEN. COC	•
	· · · · · · · · · · · · · · · · · · ·	ARE	VIDE OUTSIDE AIR LOUVER (76 A. PROVIDE WITH KYNAR FINIS WALL OPENING WITH ARCHIT	HAND INSECT SCREEN. COC	•
		ARE	VIDE RELIEF AIR LOUVER (24X2 A. PROVIDE WITH KYNAR FINIS WALL OPENING WITH ARCHIT	HAND INSECT SCREEN. COC	•
	,	6 12X1	12 EXHAUST DUCT UP FROM FIR	ST FLOOR SEE 1/M1.12 FOR (CONTINUATION.
		7 PRO	VIDE RISE IN DUCTWORK ELEV	ATION.	
	}	8 34X	16 SUPPLY DUCTWORK. SEE 1/M1	.21 FOR CONTINUATION.	
		9 50X	16 RETURN DUCTWORK. SEE 1/M	1.21 FOR CONTINUATION.	
	1	10 36X	16 SUPPLY DUCTWORK. SEE 1/M1	.21 FOR CONTINUATION.	

NOTE:

SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR CEILING TYPE, HEIGHT, AND LAYOUT. REFER TO ARCHITECT'S PLANS FOR FINAL LOCATIONS OF ALL EQUIPMENT.

DO NOT DIMENSION BASED ON THESE PLANS.



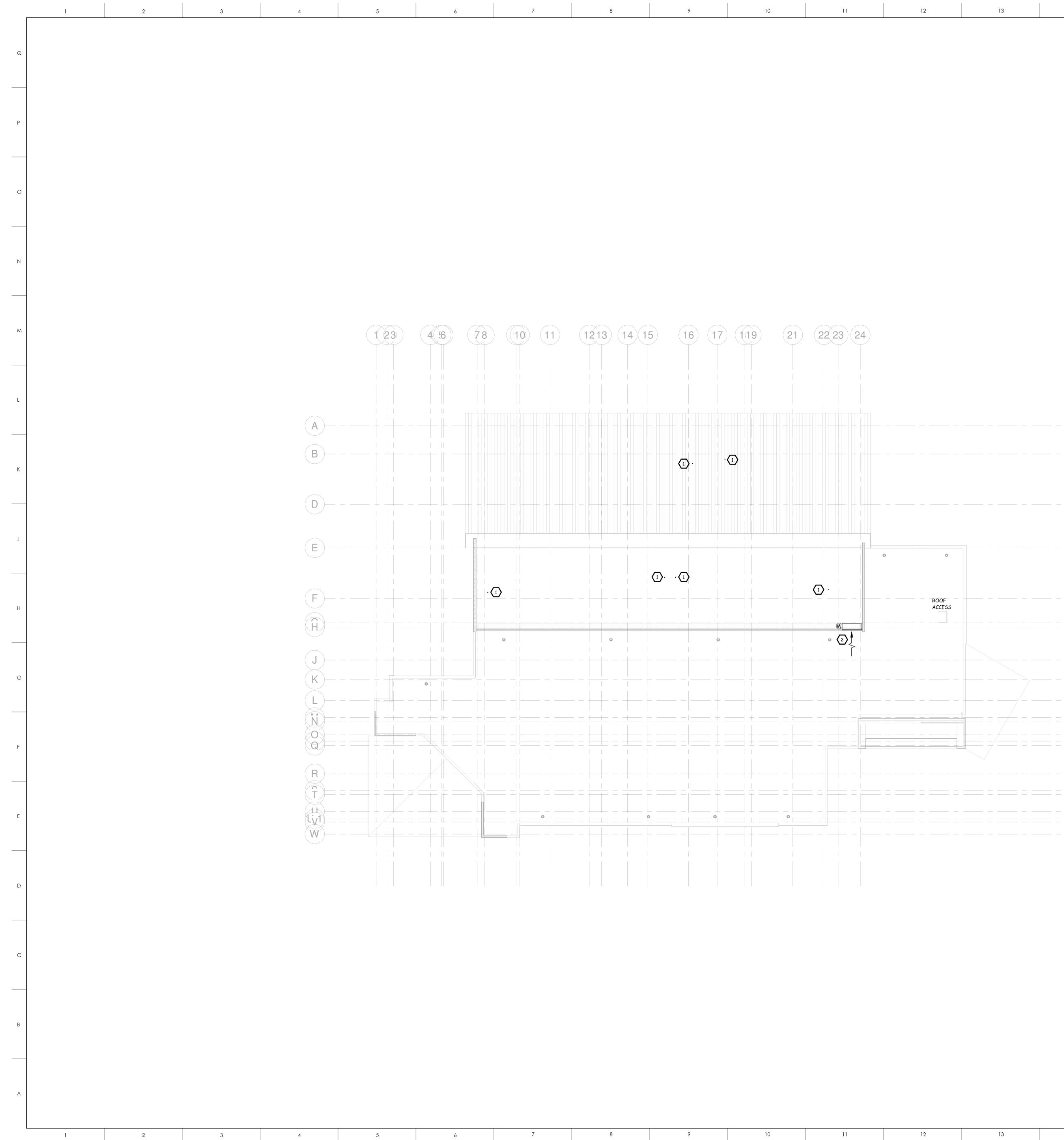


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MECHANICAL SECOND FLOOR PLAN - EAST 1/8" = 1'-0"

		SCALE: 1/16" = 1'-0"	MECHAN	IICAL SECOND FLOOR	<u>PLAN - EAST</u> 1/8" = 1'-0"
13	14	15	16	17	18

TLANTEC ENGINEERS, PA 3221 BLUE RIDGE ROAD, SUITE 113 RALEIGH, NC 27612	Q
(919) 571-1111 1505 ST. JAMES PLACE KINSTON, NC 28504 (252) 527-3336	Q
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LENOIR COMMUNITY COLLEGE NEW AVIATION CENTER FOR EXCELLENCE KINSTON, NC DRAWING TITLE MECHANICAL SECOND FLOOR PLAN - EAST	В
AS INDICATED DRAWN PJM CHECKED PJM DATE 02-28-2024 PROJECT NO. 2022-18	A



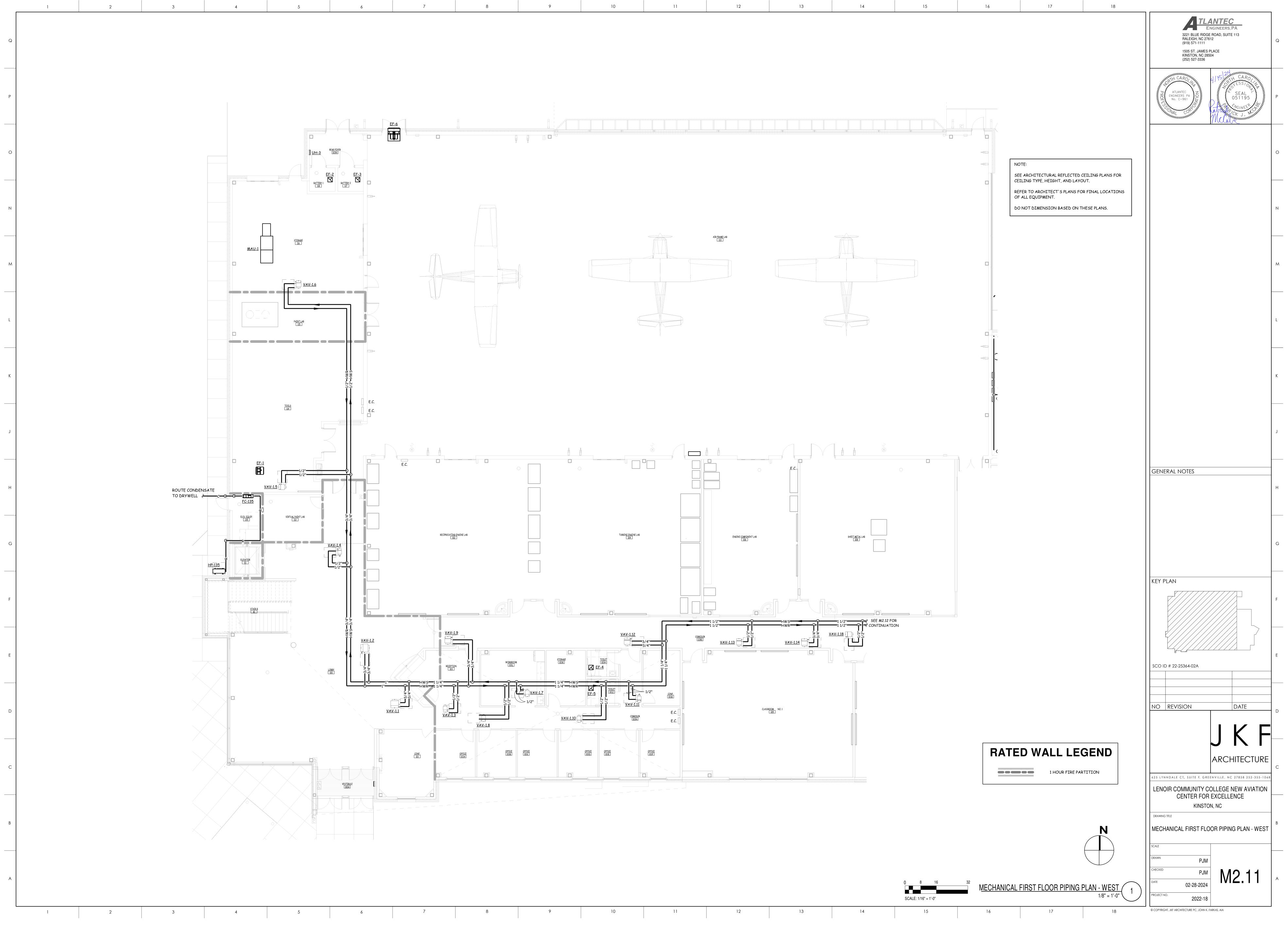
13	14	15		16	17	18
				1/M1.3 M	ECHANICAL KEY NOTES	
			2 PR Of HE	Ø FLUE. TERMINATE PER MANUFA OVIDE OUTSIDE AIR LOUVER/DA FREE AREA. PROVIDE WITH KYN, EIGHT AND WALL OPENING WITH ND INTERLOCK WITH EF-6.	MPER (96X60) EQUAL TO POTTO AR FINISH AND INSECT SCREEI	DRFF EXD-437 FOR 12.5 SQFT N. COORDINATE MOUNTING

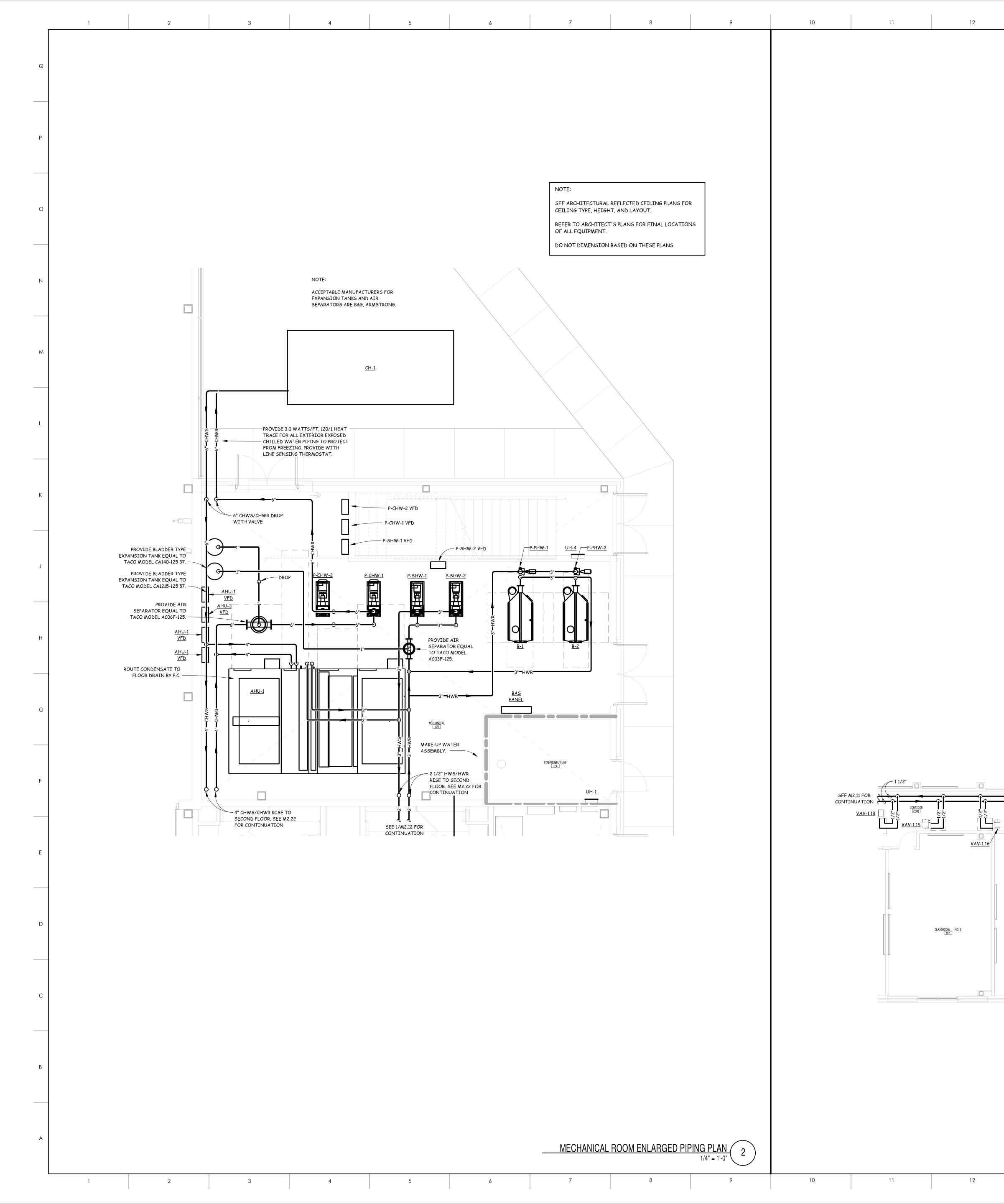


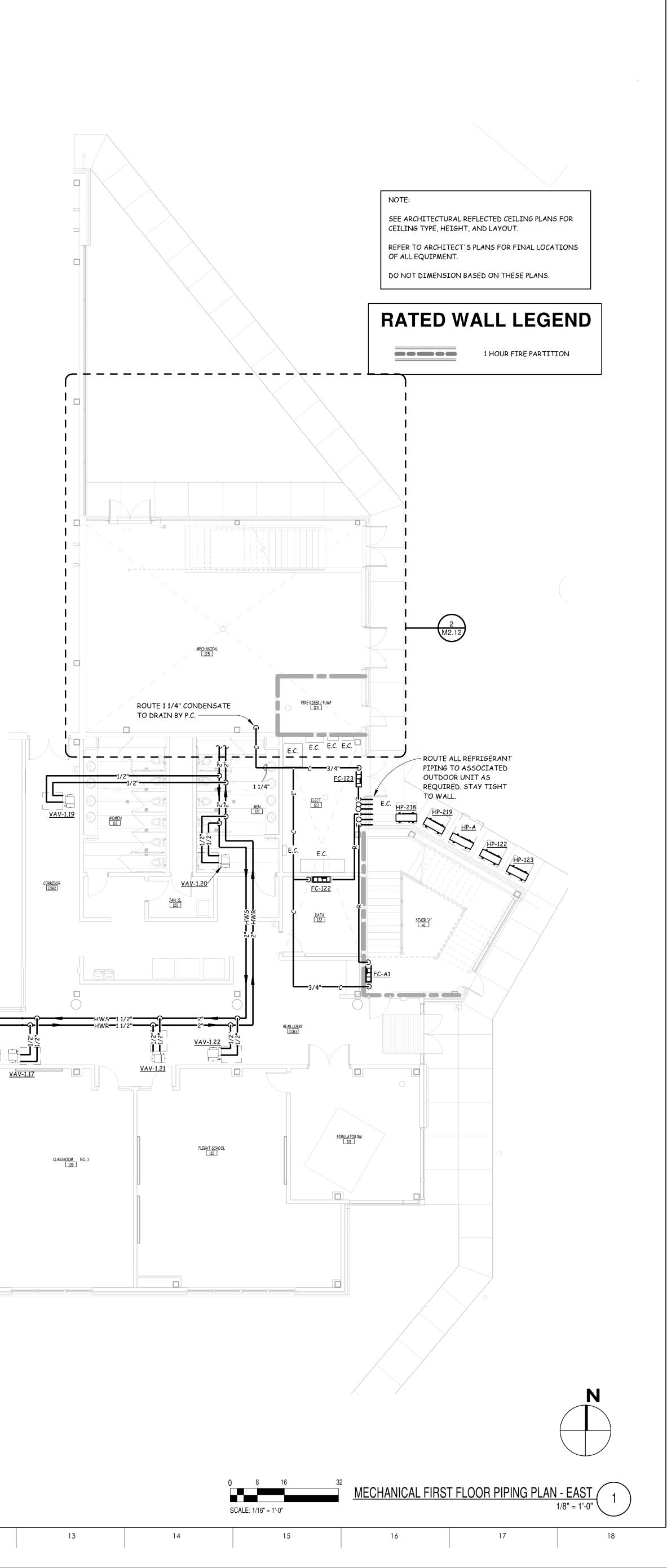
MECHANICAL ROOF PLAN 1/16" = 1'-0

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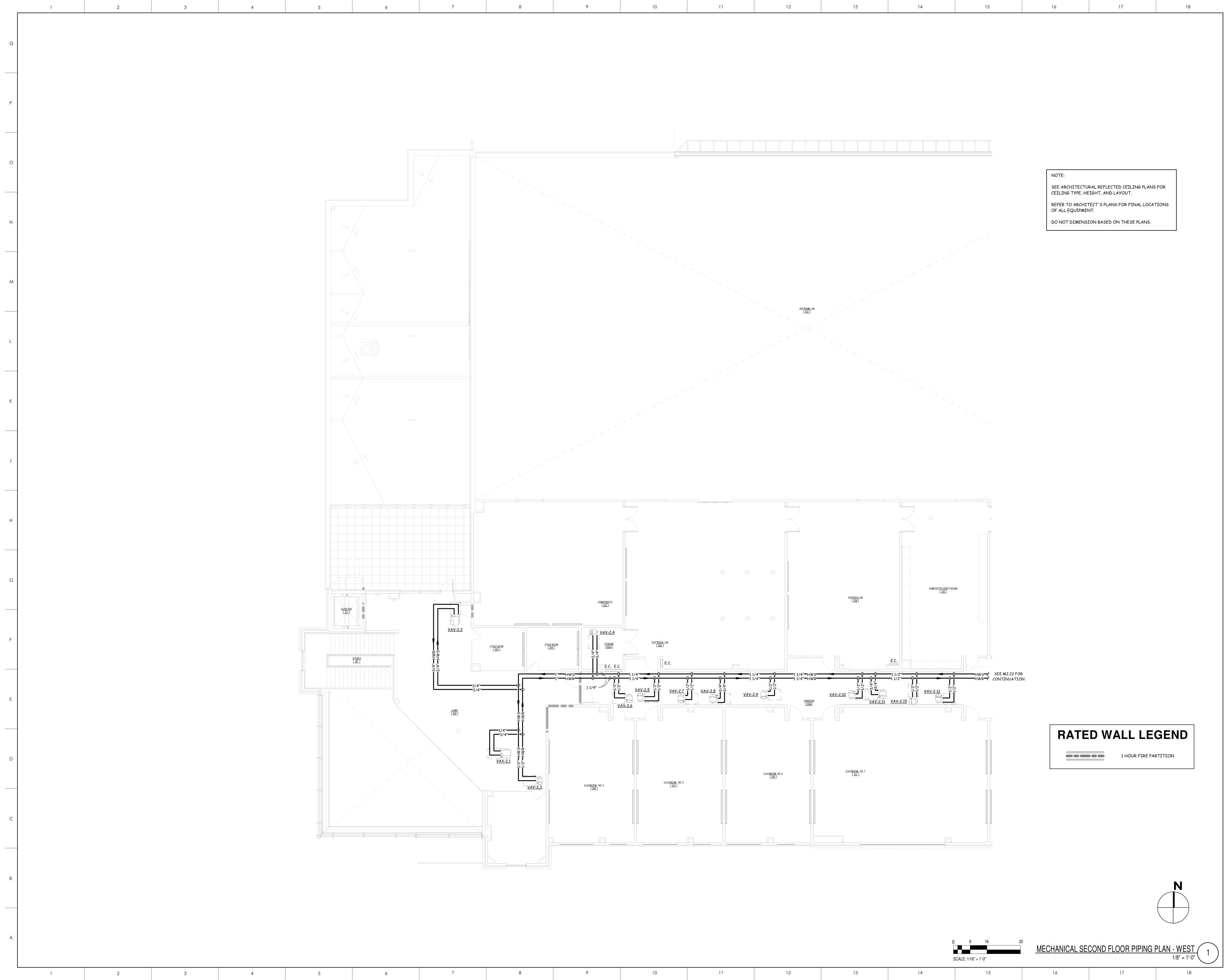
TLANTEC ENGINEERS, PA 3221 BLUE RIDGE ROAD, SUITE 113 RALEIGH, NC 27612 (919) 571-1111 1505 ST. JAMES PLACE KINSTON, NC 28504 (252) 527-3336 NGINEERS P. No. C-961 0 _____ Ν _____ М ____ L _____ J GENERAL NOTES Н _____ G KEY PLAN F SCO ID # 22-25364-02A NO REVISION DATE ARCHITECTURE 625 LYNNDALE CT., SUITE F, GREENVILLE, NC 27858 252-355-10 LENOIR COMMUNITY COLLEGE NEW AVIATION CENTER FOR EXCELLENCE KINSTON, NC DRAWING TITLE MECHANICAL ROOF PLAN PJM M1.3 PJM 02-28-2024 ROJECT NO 2022-18







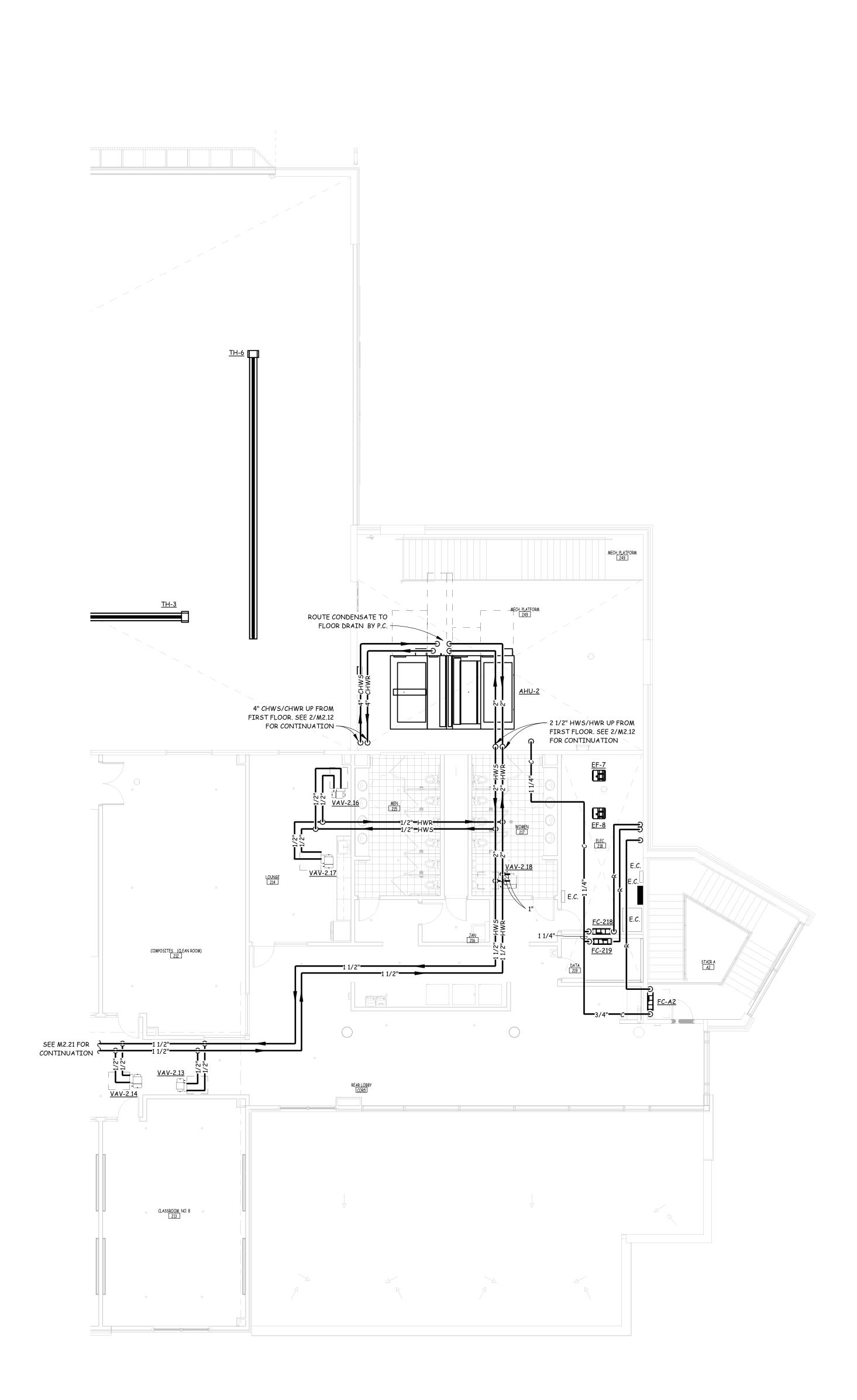
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CENTER FOR EXCELLENCE KINSTON, NC DRAWING TITLE MECHANICAL FIRST FLOOR PIPING PLAN - EAST	В
AS INDICATED DRAWN PJM CHECKED PJM DATE 02-28-2024 PROJECT NO. 2022-18	A



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ENGINEERS, PA 3221 BLUE RIDGE ROAD, SUITE 113	
RALEIGH, NC 27612 (919) 571-1111	Q
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525 LYNNDALE CT., SUITE F, GREENVILLE, NC 27858 252-355-1068	
LENOIR COMMUNITY COLLEGE NEW AVIATION CENTER FOR EXCELLENCE	
KINSTON, NC	
DRAWING TITLE	
MECHANICAL SECOND FLOOR PIPING PLAN - WEST	В
AS INDICATED	
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	MECH_PLATFORM Z49
К	TH-3 ROUTE CONDENSATE TO FLOOR DRAIN BY P.C.
L	4" CHWS/CHWR UP FROM FIRST FLOOR. SEE 2/M2.12 FOR CONTINUATION
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NOTE:

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SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR CEILING TYPE, HEIGHT, AND LAYOUT. REFER TO ARCHITECT'S PLANS FOR FINAL LOCATIONS OF ALL EQUIPMENT.

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DO NOT DIMENSION BASED ON THESE PLANS.



1 HOUR FIRE PARTITION

	0 [[8 16 32 SCALE: 1/16" = 1'-0"		ECOND FLOOR PIPING	PLAN - EAST 1/8" = 1'-0"
13	14	15	16	17	18

3221 BLUE RIDGE ROAD, SUITE 113 RALEIGH, NC 27612 (919) 571-1111 1505 ST. JAMES PLACE KINSTON, NC 28504 (252) 527-3336	Q
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ARCHITECTURE 525 LYNNDALE CT., SUITE F, GREENVILLE, NC 27858 252-355-1068 LENOIR COMMUNITY COLLEGE NEW AVIATION CENTER FOR EXCELLENCE	С
KINSTON, NC DRAWING TITLE MECHANICAL SECOND FLOOR PIPING PLAN - EAST	В
AS INDICATED DRAWN PJM CHECKED PJM DATE 02-28-2024 PROJECT NO. 2022-18	A

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	MAKE UP AIR FAN SCHEDULE		
Р	MARK OF AIR FAIR SCHEDOLLMARK MANUFACTURERMODELSERVICECFMS.P.INPUTOUTPUTPOWERPHASEFLAMOCPAFUENOTESMAU-1CAPTIVEAIREA2-D.500-20DPAINT BOOTH38000.5"407.0 MBH374.5 MBH460 V34.3 A15 A92%1-4	MARK AHU-1 AHU-2	MANUFACTURER TRANE TRANE
	NOTES: EQUALS BY GREENHECK AND COOK PROVIDE WITH HEAVY DUTY FUSIBLE DISCONNECT. PROVIDE WITH BACKDRAFT DAMPER.	NOT 1. 2.	PROVIDE 4" DISP PROVIDE WITH S
0	 INTERLOCK WITH PAINT BOOTH EXHAUST FAN OPERATION. PROVIDE WITH GAS REGULATOR, DIRT LEG, AND VALVE AT CONNECTION. 	3. 4. 5. 6. 7.	PROVIDE TOOL LI PROVIDE WITH V CONTROL VIA BU COIL CONNECTIO PROVIDE WITH G
		8.	PROVIDE IN SHI
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L	PUMP SCHEDULE MARK MANUFACTURER MODEL SERVICE TYPE P-CHW-1 TACO FI3009D CHILLED WATER END SUCTION		RPM HP/AMPS PC 1760 7.5 H.P. 4
	P-PHW-1TACO1635PRIMARY HOT WATERIN-LINEP-PHW-2TACO1635PRIMARY HOT WATERIN-LINE	127 GPM 10 127 GPM 10	1760 7.5 H.P. 4 1760 0.75 H.P. 2 1760 0.75 H.P. 2 1760 5.0 H.P. 4
		127 GPM 60	1760 5.0 H.P. 4 BY BELL & GOSSETT
К	 PROVIDE WITH FUSIBLE DISCONNECT SWITCH. PROVIDE WITH INVERTER DUTY MOTOR AND SHAFT GROUNDING RING. CONTROL VIA BUILDING AUTOMATION SYSTEM. TRIM IMPELLER FOR DESIRED FLOW. 		
	 5. PROVIDE WITH VARIABLE FREQUENCY DRIVE WITH MANUAL BYPASS AND BACK 6. PUMP CONTROLLED BY BOILER. 7. PROVIDE WITH FUSIBLE COMBINATION STARTER/DISCONNECT. 	JET COMMUNICATIO	JN.
J			
Н			
	TUBE HEATER SCHEDULE		
G	MARKMANUFACTURERMODELSERVICEGAS INPUTAMPSPOWERPHASENOTESTH-1REVERBER-RAYHL3-50-150AIR FRAME LAB150 MBH4.8 A120 V11-6TH-2REVERBER-RAYHL3-50-150AIR FRAME LAB150 MBH4.8 A120 V11-6TH-3REVERBER-RAYHL3-50-150AIR FRAME LAB150 MBH4.8 A120 V11-6		
	TH-3 REVERBER-RAY HL3-50-150 AIR FRAME LAB 150 MBH 4.8 A 120 V 1 1-6 TH-4 REVERBER-RAY HL3-60-150 AIR FRAME LAB 150 MBH 4.8 A 120 V 1 1-6 TH-5 REVERBER-RAY HL3-60-150 AIR FRAME LAB 150 MBH 4.8 A 120 V 1 1-6 TH-6 REVERBER-RAY HL3-40-150 AIR FRAME LAB 150 MBH 4.8 A 120 V 1 1-6	UH-1 UH-2 UH-3	MANUFACTURER QMARK CV QMARK CV QMARK CV
	NOTES: EQUAL BY DAYTON AND SPACE RAY PROVIDE WITH POWER DISCONNECT. CONTROL VIA WALL MOUNTED TEMPERATURE SENSOR. MONITOR LAB TEMPERATURE VIA BAS. PROVIDE WITH HANGING KIT AND 4" FLUE THROUGH ROOF.	<u>UH-4</u> NOT 1.	QMARK C\ ES: PROVIDE WITH P
F	 PROVIDE WITH HANGING KIT AND 4" FLUE THROUGH ROOF. PROVIDE WITH AUTOMATIC DOOR SWITCH TO SHUT DOWN HEATER WHEN AIR FRAME LAB DOOR IS OPEN. PROVIDE WITH GAS REGULATOR, DIRT LEG, AND VALVE AT CONNECTION. PROVIDE WITH 2 STAGES OF HEAT. 	2. 3.	PROVIDE WITH I PROVIDE WITH S
E			
D			
С	FAN COIL SCHEDULE MARK MANUFACTURER MODEL COOLING MARK MANUFACTUR MODELO EC 133 MITEURIEUE DKA A34KAZ 450 CEM 0.4 A UR 133 MITEURIEUE MODELO	TOTAL COOLING CAPACITY	COOLING CAPACITY
	FC-122MITSUBISHIPKA-A24KA7650 CFM0.4 AHP-122MITSUBISHIPUZ-A24NHA7FC-123MITSUBISHIPKA-A24KA7650 CFM0.4 AHP-123MITSUBISHIPUZ-A24NHA7FC-135MITSUBISHIPKA-A24KA7650 CFM0.4 AHP-135MITSUBISHIPUZ-A24NHA7FC-218MITSUBISHIPKA-A24KA7650 CFM0.4 AHP-218MITSUBISHIPUZ-A24NHA7FC-218MITSUBISHIPKA-A24KA7650 CFM0.4 AHP-218MITSUBISHIPUZ-A24NHA7	24.0 MBH 24.0 MBH 24.0 MBH 24.0 MBH	18.0 MBH 18.0 MBH 18.0 MBH 18.0 MBH
r	FC-219MITSUBISHIPKA-A24KA7650 CFM0.4 AHP-219MITSUBISHIPUZ-A24NHA7FC-A1MITSUBISHIPKA-A24KA7650 CFM0.4 AHP-AMITSUBISHIMXZ-SM48NAM3FC-A2MITSUBISHIPKA-A24KA7650 CFM0.4 AHP-AMITSUBISHIMXZ-SM48NAM3NOTES:		18.0 MBH 36.0 MBH 36.0 MBH
В	NOTES: 1. PROVIDE FUSIBLE DISCONNECT ON OUTDOOR UNIT. 2. PROVIDE MOTOR RATED SWITCH FOR INDOOR UNIT. 3. PROVIDE WITH CONDENSATE PUMP AND ROUTE DISCHARGE TO EXTERIOR.		
	 PROVIDE WITH CONDENSATE FOM THE RECORD DISCHMARE FOR EXTENSION. PROVIDE WITH BACNET COMMUNICATING THERMOSTAT. PROVIDE WITH LOW AMBIENT CONTROLS DOWN TO 0°F. 		
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													AIR	HANDLING	UNIT SCHE	EDULE																
				S/A			R/A		R/A								C/C									H/C						1
CTURER	MODEL	CFM	O/A CFM	FAN S.P.	S/A FAN H.P.	S/A FAN FLA		R/A FAN H.P.	FAN FLA	POWER	PHASE	C/C FACE VELOCITY	C/C ROWS/FPF	C/C TOTAL CAPACITY	C/C SENSIBLE CAPACITY	C/C FLOW	WPD (FT)		C/C EAT WB	C/C EWT	C/C LWT	H/C FACE VELOCITY	H/C ROWS/FPF	H/C CAPACITY	H/C FLOW	WPD (FT)	H/CEWT H/C	LWT I	H/C APD	H/C EAT	H/C LAT	
NE	CSAA 040	18850	5400 CFM	2.0"	(2) 10 H.P.	12.5 A	1.0"	(2) 5.0 H.P.	7 A	460 V	3	451 FPM	6/79	716.6 MBH	496.0 MBH	143 GPM	7.68	80 °F	67 °F	42 °F	52 °F	480 FPM	1/80	518.0 MBH	34.6 GPM	4.15	160 °F 130			40 °F	65 °F	1-7
	CSAA 040	18435	5400 CFM	2.0"	(2) 10 H.P.	12.5 A	1.0"	(2) 5.0 H.P.		460 V	2	467 FPM	6/94	709.5 MBH	496.0 MBH	141 GPM	5.35	80 °F	/7°r	42 °F	52 °F	480 FPM	1/80	496.4 MBH	33.1 GPM	2.30	160 °F 130	0-	D7 in-wg	40 °F	65 °F	1-7

" DISPOSABLE MERV 13 FILTERS. PROVIDE SPARE SET FOR EACH UNIT AT CLOSE OF PROJECT TO TURN OVER TO OWNER. ITH STAINLESS STEEL CASING, DRAIN PAN FOR COOLING SECTION.

OOL LESS HANDLES FOR ALL ACCESS DOORS.

ITH VARIABLE FREQUENCY DRIVE WITH BY-PASS AND INTEGRAL FUSIBLE DISCONNECT SWITCH FOR SUPPLY AND RETURN FANS WITH GROUNDING RINGS. IA BUILDING AUTOMATION SYSTEM.

ECTION AND FAN/FILTER ACCESS ON OPPOSITE SIDES.

ITH GRAVITY BACKDRAFT DAMPER ON FAN INLET TO PREVENT RECIRCULATION IF ONE FAN OF THE ARRAY IS DOWN. SHIPPED SPLITS THAT WILL BE ABLE TO GO THROUGH 6' WIDE BY 7' TALL DOOR OPENING.

PS	POWER	PHASE	NOTES
Ρ.	460 V	3	1,2,3,5
Ρ.	460 V	3	1,2,3,5
I.P.	277 V	1	4,6,7
I.P.	277 V	1	4,6,7
Ρ.	460 V	3	1,2,3,5
Ρ.	460 V	3	1,2,3,5

SSETT AND ARMSTRONG

					AIR COO	LED CHI	LLER SCHE	DULE
				WATER		MAX WPD	ENTERING	LEAVING
Μ	ARK	MANUFACTURER	MODEL	FLOW	CAPACITY	(FT)	FLUID TEMP	FLUID TEMP
С	:H-1	TRANE	CGAM 130	300.0 GPM	117.0 TONS	20.7	52 °F	42 °F
1	NOTE	S:						EQU

PROVIDE WITH COIL GUARDS. PROVIDE WITH SINGLE POINT ELECTRICAL CONNECTION AND PROVIDE SEPARATE HEAVY DUTY FUSIBLE DISCONNECT SWITCH. UNIT TO HAVE A MINIMUM OF 4 STAGES OF CONTROL DOWN TO 25% CAPACITY.

PROVIDE WITH UNIT MOUNTED ACROSS THE LINE STARTER AND CONTROL PANEL. PROVIDE WITH 6" THICK REINFORCED CONCRETE PAD 12" WIDER THAN EQUIPMENT BY M.C. 5. 6. PROVIDE WITH 5 YEAR COMPRESSOR WARRANTY FOR PARTS AND LABOR.

PROVIDE 120/1, 30 AMP CONNECTION FOR CONTROL.

PROVIDE 120/1 CIRCUIT FOR FACTORY PROVIDED HEAT TRACE ON CONDENSER BARREL. 8. CONTROL VIA BUILDING AUTOMATION SYSTEM. 9.

EL E	CTDTC		D SCHEN	UIE						
ELECTRIC UNIT HEATER SCHEDULE										
MODEL	CFM	SERVICE	CAPACITY	kW	PHASE	AMPS	POWER	NOTES		
CWH1201DSF	65 CFM	RISER	5.1 MBH	1.5 kW	1	7.3 A	120 V	1-3		
WH1201DSF	65 CFM	VESTIBULE	5.1 MBH	1.5 kW	1	7.3 A	120 V	1-3		
WH1201DSF	65 CFM	AIR FRAME LAB	5.1 MBH	1.5 kW	1	7.3 A	120 V	1-3		
CWH1201DSF	65 CFM	MECHANICAL	5.1 MBH	1.5 kW	1	7.3 A	120 V	1-3		
			FQU	ALS BY	MARKEL		FRKO			
			LQU							

ITH POWER DISCONNECT. ITH INTEGRAL THERMOSTAT. ITH SURFACE MOUNTING KIT.

		6	RILLE &	DIFFUSER SCHE	DULE			
MARK	MANUFACTURER	MODEL	SERVICE	TYPE	MAX FLOW	FACE SIZE	NECK SIZE	NOTES
Α	PRICE	SCD 4 CONE	SUPPLY	LOUVERED LAY-IN	100 CFM	24x24	6"ø	1-3
AA	PRICE	SMD	SUPPLY	SURFACE MOUNT	100 CFM	8×8	6"ø	1,2
В	PRICE	SCD 4 CONE	SUPPLY	LOUVERED LAY-IN	200 CFM	24x24	8"ø	1-3
С	PRICE	SCD 4 CONE	SUPPLY	LOUVERED LAY-IN	300 CFM	24x24	10"ø	1-3
D	PRICE	SCD 4 CONE	SUPPLY	LOUVERED LAY-IN	450 CFM	24x24	12"ø	1-3
Е	PRICE	510	SUPPLY	SIDEWALL	200 CFM	14×8	12x6	1-4
ΕA	PRICE	530	EXHAUST	LOUVERED LAY-IN	1000 CFM	24x24	SEE DWG	1-3
EB	PRICE	SDGE	EXHAUST	DUCT MOUNTED	500 CFM	28"X8"	-	1,6
EC	PRICE	SDGE	EXHAUST	DUCT MOUNTED	850 CFM	30"X10"	-	1,6
F	PRICE	SDS100 1" WIDTH	SUPPLY	LINEAR SLOT	100 CFM	48"-1 SLOT	6"ø	1-3,7
G	PRICE	SDS100 1" WIDTH	SUPPLY	LINEAR SLOT	200 CFM	48"-2 SLOT	8"ø	1-3,7
Н	PRICE	SDS100 1" WIDTH	SUPPLY	LINEAR SLOT	325 CFM	48"-3 SLOT	10"ø	1-3,7
J	PRICE	LBPH 16B	SUPPLY	LINEAR BAR GRILLE	200 CFM	50"×4"	48"x2"	1-5
Κ	PRICE	LBPH 16B	SUPPLY	LINEAR BAR GRILLE	550 CFM	62"x6"	60"x4"	1-5
L	PRICE	ND	SUPPLY	NOZZLE DIFFUSER	515 CFM	14"Ø	12"ø	1,4
Μ	PRICE	SDGE	SUPPLY	DUCT MOUNTED	150 CFM	16"X6"	-	1,6
RA	PRICE	530	RETURN	LOUVERED LAY-IN	1500 CFM	24x24	SEE DWG	1-3
RB	PRICE	530	RETURN	SURFACE MOUNT	700 CFM	22×16	20x14	1-3
RC	PRICE	530	RETURN	SURFACE MOUNT	4500 CFM	50×30	48x28	1-3
RD	PRICE	530	RETURN	SURFACE MOUNT	300 CFM	14×14	12x12	1-3
RE	PRICE	SDR100 1" WIDTH	RETURN	LINEAR SLOT	100 CFM	24" - 1 SLOT	6"ø	1-3,7
RF	PRICE	SDR100 1" WIDTH	RETURN	LINEAR SLOT	300 CFM	24" - 4 SLOT	10"ø	1-3,7

NOTES:

COORDINATE FINISH WITH ARCHITECT.

GRILLE TO HAVE FULLY LOUVERED FACE. PROVIDE WITH INSULATED SHEET METAL PLENUM.

PROVIDE WITH FRAME FOR SURFACE MOUNTING.

PROVIDE WITH OPPOSED BLADE DAMPER.

PROVIDE WITH FRAME FOR DUCT MOUNTING.

GRILLE LOCATED WITHIN PERFORATED METAL CEILING. COORDINATE WITH METAL PERFORATED CEILING MANUFACTURER.

			FXHAUST	FAN SCHE	DULE						
MARK	MANUFACTURER	MODEL	SERVICE	TYPE	CFM	RPM	HP/AMPS	S.P.	POWER	PHASE	NOTE
EF-1	соок	SQN-B	1ST FLOOR LABS	INLINE	2975	1725	1.5 HP	0.75"	120 V	1	1,2,5
EF-2	соок	GC-140	BATTERY	CABINET FAN	105	1500	67 Watts	0.25"	120 V	1	1,2,4
EF-3	СООК	GC-140	BATTERY	CABINET FAN	105	1500	67 Watts	0.25"	120 V	1	1,2,4
EF-4	СООК	GC-140	TOILET	CABINET FAN	105	1500	67 Watts	0.25"	120 V	1	1-3
EF-5	СООК	GC-140	TOILET	CABINET FAN	105	1500	67 Watts	0.25"	120 V	1	1-3
EF-6	СООК	ХМРН	AIR FRAME LAB	SIDEWALL	10000	1725	2 HP	0.25"	460 V	3	2,6,
EF-7	СООК	SQN-B	TOILETS	INLINE	1300	1725	1/2 HP	0.75"	120 V	1	1,2,
EF-8	СООК	SQN-B	COMPOSITES	INLINE	1300	1725	1/2 HP	0.75"	120 V	1	1,2,5

NOTES:

10

1. PROVIDE WITH DISCONNECT SWITCH. 2.

PROVIDE WITH BACKDRAFT DAMPER. CONTROL VIA LIGHT SWITCH BY E.C. 3.

4. FAN TO RUN CONTINUOUSLY.

5. CONTROL VIA BUILDING AUTOMATION SYSTEM.

6. CONTROL FAN VIA TOXIC GAS MONITORING SYSTEM. 7. PROVIDE FUSIBLE COMBINATION STARTER/DISCONNECT FOR CONTROL INTERLOCK.

11

SCHEDULE HEATING PACITY CAPACITY POWER PHASE MCA MOCP SEER2 HSPF2 NOTES BH 24.0 MBH 208 V 1 19.0 A 25 A 21.3 9.3 1-5 BH 24.0 MBH 208 V 1 19.0 A 25 A 21.3 9.3 1-5 24.0 MBH 208 V 1 19.0 A 25 A 21.3 9.3 1-5 24.0 MBH 208 V 1 19.0 A 25 A 21.3 9.3 1-5 H 24.0 MBH 208 V 1 19.0 A 25 A 21.3 9.3 1-5 H 48.0 MBH 208 V 1 29.0 A 40 A 23.0 10.4 1-6 H 48.0 MBH 208 V 1 29.0 A 40 A 23.0 10.4 1-6

EQUALS	ΒУ	TRANE	AND	DAIKIN

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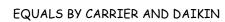
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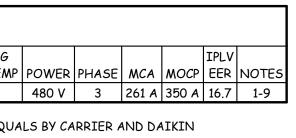
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EQUALS BY KRUEGER AND TITUS

EQUALS BY GREENHECK AND TWIN CITY

13

HOT WATER BOILER SCHEDULE

			HEAT	HW	ENTERING	LEAVING					
MANUFACTURER	MODEL	GAS INPUT	OUTPUT	FLOWRATE	FLUID TEMP	FLUID TEMP	FLA	POWER	PHASE	AFUE	NOTES
Lochinvar	FBN2001	1999 MBH	1923 MBH	127.0 GPM	130 °F	160 °F	13 A	120 V	1	96%	
Lochinvar	FBN2001	1999 MBH	1923 MBH	127.0 GPM	130 °F	160 °F	13 A	120 V	1	96%	
^	Lochinvar		Lochinvar FBN2001 1999 MBH	MANUFACTURERMODELGAS INPUTOUTPUTLochinvarFBN20011999MBH1923MBH	MANUFACTURERMODELGAS INPUTOUTPUTFLOWRATELochinvarFBN20011999MBH1923MBH127.0GPM	MANUFACTURERMODELGAS INPUTOUTPUTFLOWRATEFLUID TEMPLochinvarFBN20011999MBH1923MBH127.0GPM130 °F	MANUFACTURERMODELGAS INPUTOUTPUTFLOWRATEFLUID TEMPFLUID TEMPLochinvarFBN20011999MBH1923MBH127.0GPM130 °F160 °F	MANUFACTURERMODELGAS INPUTOUTPUTFLOWRATEFLUID TEMPFLUID TEMPFLALochinvarFBN20011999MBH1923MBH127.0GPM130 °F160 °F13A	MANUFACTURERMODELGAS INPUTOUTPUTFLOWRATEFLUID TEMPFLUID TEMPFLAPOWERLochinvarFBN20011999MBH1923MBH127.0GPM130 °F160 °F13A120 V	MANUFACTURERMODELGAS INPUTOUTPUTFLOWRATEFLUID TEMPFLUID TEMPFLAPOWERPHASELochinvarFBN20011999MBH1923MBH127.0GPM130 °F160 °F13A120 V1	MANUFACTURERMODELGAS INPUTOUTPUTFLOWRATEFLUID TEMPFLUID TEMPFLAPOWERPHASEAFUELochinvarFBN20011999MBH1923MBH127.0GPM130 °F160 °F13A120 V196%

EQUALS BY AERCO AND FULTON PROVIDE WITH 25:1 MODULATING TURNDOWN. PROVIDE WITH FUSIBLE COMBINATION MOTOR STARTER/DISCONNECT SWITCH.

3. PROVIDE FACTORY MUTUAL INSURANCE GAS TRAIN.

4. PROVIDE WITH ACID NEUTRALIZATION KIT. 5. EQUIPMENT TO BE ASME LABELED.

6. PROVIDE WITH GAS PRESSURE REGULATOR.

7. CONTROL VIA BAS. PROVIDE WIRING SO THAT LAG BOILER CAN RUN WHEN LEAD BOILER IS POWERED OFF.

			VAV	BOX SCH	EDULE					
MARK	MANUFACTURER	MODEL	COOLING AIRFLOW	HEATING AIRFLOW	MINIMUM AIRFLOW	HW FLOWRATE	POWER	PHASE	INLET	NOTE
VAV-1.1	TRANE	VCWF-16	1935 CFM	1548 CFM	387 CFM	3.5 GPM	120 V	1	16"	1-5
VAV-1.2	TRANE	VCWF-16	2340 CFM	1872 CFM	468 CFM	3.5 GPM	120 V	1	16"	1-5
VAV-1.3	TRANE	VCWF-8	300 CFM	240 CFM	60 CFM	0.5 GPM	120 V	1	8"	1-5
VAV-1.4	TRANE	VCWF-4	150 CFM	120 CFM	30 CFM	0.5 GPM	120 V	1	4"	1-5
VAV-1.5	TRANE	VCWF-10	700 CFM	560 CFM	140 CFM	1.0 GPM	120 V	1	10"	1-5
VAV-1.6	TRANE	VCWF-10	800 CFM	640 CFM	160 CFM	1.0 GPM	120 V	1	10"	1-5
VAV-1.7	TRANE	VCWF-8	525 CFM	420 CFM	105 CFM	1.0 GPM	120 V	1	8"	1-5
VAV-1.8	TRANE	VCWF-8	375 CFM	300 CFM	75 CFM	1.0 GPM	120 V	1	8"	1-5
VAV-1.9	TRANE	VCWF-12	1200 CFM	960 CFM	600 CFM	2.0 GPM	120 V	1	12"	1-5
VAV-1.10	TRANE	VCWF-8	375 CFM	300 CFM	75 CFM	0.5 GPM	120 V	1	8"	1-5
VAV-1.11	TRANE	VCWF-4	125 CFM	100 CFM	25 CFM	0.5 GPM	120 V	1	4"	1-5
VAV-1.12	TRANE	VCWF-12	1200 CFM	960 CFM	600 CFM	2.0 GPM	120 V	1	12"	1-5
VAV-1.13	TRANE	VCWF-10	750 CFM	600 CFM	375 CFM	1.0 GPM	120 V	1	10"	1-5
VAV-1.14	TRANE	VCWF-12	1300 CFM	1040 CFM	260 CFM	2.0 GPM	120 V	1	12"	1-5
VAV-1.15	TRANE	VCWF-10	800 CFM	640 CFM	400 CFM	1.5 GPM	120 V	1	10"	1-5
VAV-1.16	TRANE	VCWF-8	650 CFM	520 CFM	130 CFM	1.0 GPM	120 V	1	8"	1-5
VAV-1.17	TRANE	VCWF-10	750 CFM	600 CFM	150 CFM	1.0 GPM	120 V	1	10"	1-5
VAV-1.18	TRANE	VCWF-10	700 CFM	560 CFM	140 CFM	1.0 GPM	120 V	1	10"	1-5
VAV-1.19	TRANE	VCWF-10	900 CFM	720 CFM	180 CFM	1.5 GPM	120 V	1	10"	1-5
VAV-1.20	TRANE	VCWF-10	1000 CFM	800 CFM	200 CFM	1.5 GPM	120 V	1	10"	1-5
VAV-1.21	TRANE	VCWF-10	875 CFM	700 CFM	175 CFM	1.5 GPM	120 V	1	10"	1-5
VAV-1.22	TRANE	VCWF-12	1100 CFM	880 CFM	220 CFM	1.5 GPM	120 V	1	12"	1-5
VAV-2.1	TRANE	VCWF-16	2205 CFM	1764 CFM	441 CFM	3.5 GPM	120 V	1	16"	1-5
VAV-2.2	TRANE	VCWF-16	2380 CFM	1904 CFM	476 CFM	3.5 GPM	120 V	1	16"	1-5
VAV-2.3	TRANE	VCWF-6	275 CFM	220 CFM	55 CFM	0.5 GPM	120 V	1	6"	1-5
VAV-2.4	TRANE	VCWF-6	225 CFM	180 CFM	45 CFM	0.5 GPM	120 V	1	6"	1-5
VAV-2.5	TRANE	VCWF-10	750 CFM	600 CFM	150 CFM	1.0 GPM	120 V	1	10"	1-5
VAV-2.6	TRANE	VCWF-10	750 CFM	600 CFM	150 CFM	1.0 GPM	120 V	1	10"	1-5
VAV-2.7	TRANE	VCWF-10	750 CFM	600 CFM	150 CFM	1.0 GPM	120 V	1	10"	1-5
VAV-2.8	TRANE	VCWF-12	1200 CFM	960 CFM	240 CFM	2.0 GPM	120 V	1	12"	1-5
VAV-2.9	TRANE	VCWF-10	750 CFM	600 CFM	150 CFM	1.0 GPM	120 V	1	10"	1-5
VAV-2.10	TRANE	VCWF-10	750 CFM	600 CFM	150 CFM	1.0 GPM	120 V	1	10"	1-5
VAV-2.11	TRANE	VCWF-12	1300 CFM	1040 CFM	260 CFM	2.0 GPM	120 V	1	12"	1-5
VAV-2.12	TRANE	VCWF-10	700 CFM	560 CFM	300 CFM	1.0 GPM	120 V	1	10"	1-5
VAV-2.13	TRANE	VCWF-10	675 CFM	540 CFM	135 CFM	1.0 GPM	120 V	1	10"	1-5
VAV-2.14	TRANE	VCWF-8	600 CFM	480 CFM	350 CFM	1.0 GPM	120 V	1	8"	1-5
VAV-2.15	TRANE	VCWF-10	750 CFM	600 CFM	150 CFM	1.0 GPM	120 V	1	10"	1-5
VAV-2.16	TRANE	VCWF-6	200 CFM	160 CFM	40 CFM	0.5 GPM	120 V	1	6"	1-5
VAV-2.17	TRANE	VCWF-10	775 CFM	620 CFM	155 CFM	1.0 GPM	120 V	1	10"	1-5
VAV-2.18	TRANE	VCWF-16	3400 CFM	2720 CFM	680 CFM	5.0 GPM	120 V	1	16"	1-5
nd total: 40			2.30 51 11				•	-		<u> </u>

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NOTES:

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PROVIDE WITH 120 VOLT TO 24 VOLT TRANSFORMER WITH DISCONNECT.

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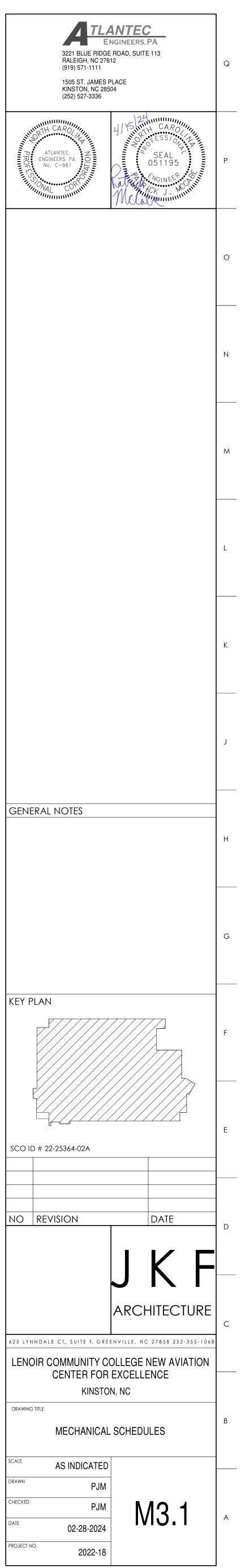
PROVIDE WITH FIELD MOUNTED CONTROLS. CONTROL VIA BUILDING AUTOMATION SYSTEM. 3.

4. PROVIDE WITH INLET AIR FLOW PROBE. 5. HOT WATER BASED ON 130°F EWT AND 100°F LWT.

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Project Name: 22183-LCC AVIATION Prepared by: ATLANTEC ENGINEERS

Ventilation Sizing Summary for P-FIRST FLOOR

4

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1. Summary Ventilation Sizing Method ... Design Condition Occupant Diversity (D) ASHRAE Std 62.1-2010 Minimum flow (heating) 1.000 4256 CFM Uncorrected Outdoor Air Intake (Vou) System Ventilation Efficiency (Ev) Outdoor Air Intake (Vot) 0.793 5368 CFM

3

		Minimum Supply Air (CFM)	Area	Area Outdoor Air Rate (CFM/ft ²)	Time Averaged Occupancy (Occupants)	People Outdoor Air Rate (CFM/person)	Air Distribution	Space Outdoor Air (CFM)	Breathing Zone Outdoor Air (CFM)	
Zone Name / Space Name	Mult.	(Vpz)	(Az)	(Ra)	(Pz)	(Rp)	(Ez)	(Voz)	(Vbz)	
Zone 1										
P-100A-LOBBY VESTIBULE	1	22	121.0	0.06	2.0	5.00	0.8	22	17	
P-100-LOBBY VAV-1.1	1	143	957.0	0.06	8.0	5.00	0.8	122	97	
Zone 2										
P-100-LOBBY VAV-1.2	1	200	1646.0	0.06	8.0	5.00	0.8	173	139	
Zone 3										
P-101-CONFERENCE	1	93	239.0	0.06	12.0	5.00	0.8	93	74	
Zone 4										-
P-112-VIRTUAL PAINT LAB	1	64	175.0	0.18	2.0	10.00	0.8	64	52	
Zone 5										
P-114-TOOLS	1	118	1077.0	0.06	6.0	5.00	0.8	118	95	
Zone 6										
P-116-STORAGE	1	67	890.0	0.06	0.0	5.00	0.8	67	53	
P-117-BATTERY 2	1	3	39.0	0.06	0.0	5.00	0.8	3	2	
P-118-BATTERY 1	1	3	39.0	0.06	0.0	5.00	0.8	3	2	
P-115-PAINT LAB	1	153	401.0	0.18	5.0	10.00	0.8	153	122	
Zone 7										
P-103HJ-OFFICE TOILETS	1	8	107.0	0.06	0.0	5.00	0.8	8	6	
P-103K-OFFICE STORAGE	1	11	140.0	0.06	0.0	5.00	0.8	11	8	
P-103L-WORKROOM	1	36	229.0	0.06	3.0	5.00	0.8	36	29	
P-103M-OFFICE CORRIDOR	1	35	388.0	0.06	1.0	5.00	0.8	35	28	
P-103-RECEPTION	1	33	272.0	0.06	2.0	5.00	0.8	33	26	
Zone 8										
P-103A-OFFICE	1	15	120.0	0.06	1.0	5.00	0.8	15	12	
P-103B-OFFICE	1	15	120.0	0.06	1.0	5.00	0.8	15	12	
P-103C-OFFICE	1	15	120.0	0.06	1.0	5.00	0.8	15	12	
Zone 9										
P-102-RECIPROCATING ENGI	1	676	1670.0	0.18	24.0	10.00	0.8	676	541	
Zone 10										
P-103D-OFFICE	1	15	120.0	0.06	1.0	5.00	0.8	15	12	
P-103E-OFFICE	1	15	120.0	0.06	1.0	5.00	0.8	15	12	

Hourly Analysis Program 5.11

Project Name: 22183-LCC AVIATION Prepared by: ATLANTEC ENGINEERS

Ventilation Sizing Summary for P-SECOND FLOOR

1. Summary Ventilation Sizing Method Design Condition Occupant Diversity (D) Uncorrected Outdoor Air Intake (Vou) System Ventilation Efficiency (Ev) Outdoor Air Intake (Vot) 0.756 5329 CFM

2. Space Ventilation Analysis

2. Space Ventilation Analysis										
		•••	0		Time				Breathing	0
		Supply Air	Space Floor Area	Area Outdoor Air Rate	Averaged Occupancy			Space Outdoor Air	Zone Outdoor Air	Space Ventilation
		(CFM)	(ft ²)	(CFM/ft ²)	(Occupants)	(CFM/person)		(CFM)	(CFM)	Efficiency
Zone Name / Space Name	Mult.	(Vpz)	(Az)	(Ra)	(Pz)		(Ez)	(Voz)	(Vbz)	(Evz)
Zone 1										
P-200-LOBBY VAV-2.1	1	195	1109.0	0.06	5.0	5.00	0.8	114	92	1.168
Zone 2										
P-200-LOBBY VAV-2.2	1	232	1464.0	0.06	5.0	5.00	0.8	141	113	1.149
Zone 3										
P-201-STUDY MEETING	1	55	239.0	0.06	6.0	5.00	0.8	55	44	0.756
Zone 4										
P-203-STUDY ROOM	1	28	129.0	0.06	3.0	5.00	0.8	28	23	0.756
P-204-STUDY ROOM	1	28	128.0	0.06	3.0	5.00	0.8	28	23	0.756
P-206A-STORAGE	1	7	98.0	0.06	0.0	5.00	0.8	7	6	0.756
Zone 5										
P-202-COMPONENTS LAB	1	537	1052.0	0.18	24.0	10.00	0.8	537	429	0.756
Zone 6										
P-205-CLASSROOM #4	1	296	642.0	0.12	16.0	10.00	0.8	296	237	0.756
Zone 7										
P-207-CLASSROOM #5	1	296	642.0	0.12	16.0	10.00	0.8	296	237	0.756
Zone 8										
P-206-ELECTRICAL LAB	1	636	1495.0	0.18	24.0	10.00	0.8	636	509	0.756
Zone 9										
P-209-CLASSROOM #6	1	296	642.0	0.12	16.0	10.00	0.8	296	237	0.756
Zone 10										
P-208-AVIONICS LAB	1	533	1035.0	0.18	24.0	10.00	0.8	533	426	0.756
Zone 11										
P-211-CLASSROOM #7	1	521	1304.0	0.12	26.0	10.00	0.8	521	416	0.756
Zone 12										
P-210-COMPOSITES(DIRTY)	1	378	793.0	0.18	16.0	10.00	0.8	378	303	0.756
Zone 13										
P-213-CLASSROOM #8	1	295	636.0	0.12	16.0	10.00	0.8	295	236	0.756
Zone 14										
P-212-COMPOSITES(CLEAN)	1	428	793.0	0.18	20.0	10.00	0.8	428	343	0.756
Zone 15										

Hourly Analysis Program 5.11

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 Space

 Ventilation

 Efficiency

 (Evz)

 0.793

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P-103F-OFFICE Zone 11 P-103G-CONFERENCE Zone 12 P-104-TURBINE ENGINES 1669.0 0.18 24.0 676 Zone 13 P-106-ENGINE COMPONENT 926.0 0.18 20.0 458 Zone 14 P-105-CLASSROOM #1 1364.0 0.12 24.0 505 Zone 15 P-108-SHEET METAL LAB 1537.0 0.18 596 20.0 Zone 16 P-107-CLASSROOM #2 297 647.0 0.12 16.0 Zone 17 P-109-CLASSROOM #3 647.0 0.12 16.0 297 Zone 18 P-126-CORRIDOR 1196.0 0.06 1.0 Zone 19 P-119-WOMEN 240.0 140.0 0.06 P-120-JAN. P-121-MEN P-125-MECHANICAL 240.0 958.0 0.06 Zone 20 P-126-REAR LOBBY 1449.0 146 0.06 Zone 21 P-110-FLIGHT SCHOOL 791.0 0.12 269 12.0 269 Zone 22 P-111-SIMULATOR ROOM 368.0 0.12 105 4.0 Totals (incl. Space Multipliers) 5368

Hourly Analysis Program 5.11

Hourly Analysis Program 5.11

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 99
 Space

 Ventilation
 Efficiency

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 (Evz)

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Ventilation Sizing Summary for P-SECOND FLOOR

		'	Ventilatic	In Orzinig (Julilliary				
Project Name: 22183-LCC AVIATION Prepared by: ATLANTEC ENGINEER									
Thepared by: ATEANTED ENGINEER	10								
P-239-CORRIDOR	1	97	1210.0	0.06	1.0	5.00	0.8	97	78
Zone 16									
P-214-STUDENT LOUNGE	1	47	383.0	0.06	3.0	5.00	0.8	47	38
Zone 17									
P-215-WOMEN	1	24	237.0	0.06	1.0	5.00	0.8	24	19
P-216-JAN.	1	11	141.0	0.06	0.0	5.00	0.8	11	8
P-217-MEN	1	24	237.0	0.06	1.0	5.00	0.8	24	19
P-249-MECHANICAL	1	94	1249.0	0.06	0.0	5.00	0.8	94	75
Zone 18									
P-238-REAR LOBBY	1	268	1423.0	0.06	6.0	5.00	0.8	144	115
Totals (incl. Space Multipliers)		5329							4027

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Project Name: 22183-LCC AVIATION Prepared by: ATLANTEC ENGINEERS

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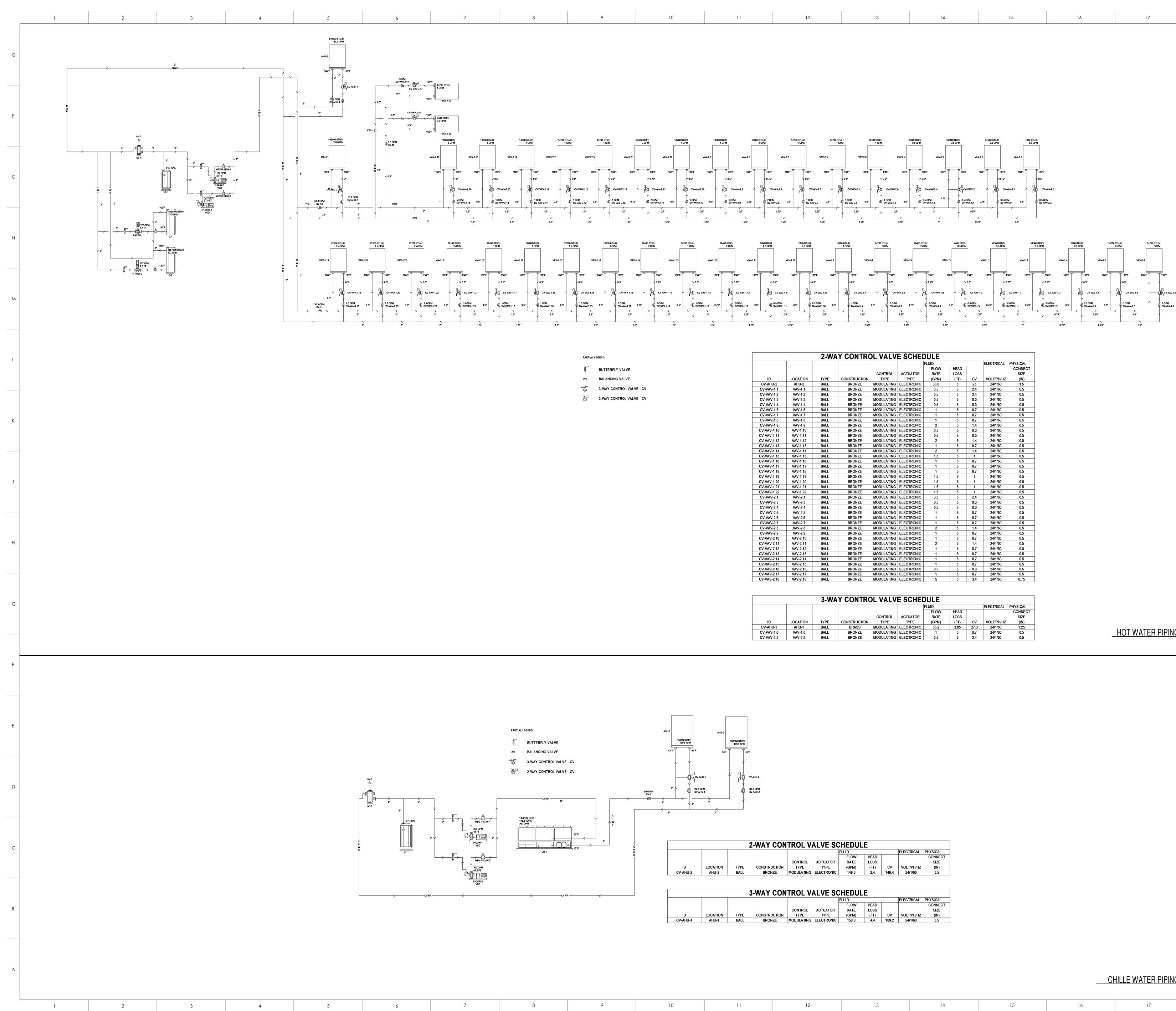
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238	0.793	
77	0.793	
19	0.793	
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Page 2 of 4

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Page 4 of 4

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CAL AS INDICATED ROUTER FOR EXCELLENCE KINSTON, NC DATE DEMONS THE VENTILATION SUMMARY CAL AS INDICATED ROUTER OF 22-25-20-10-0 AND REVISION DATE DEMONSTRY CAL AS INDICATED ROUTER OF 22-25-10-0 CAL AS INDICATED ROUTER OF 22-25-10-0			М
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SCO ID # 22-25364-02A SCO ID # 22-25364-02A NO REVISION DATE USE LYNNDALE CT. SUITE F. GREENVILLE. NC 27858 252-355-1068 LENOIR COMMUNITY COLLEGE NEW AVIATION CENTER FOR EXCELLENCE KINSTON, NC DRAWING ITTLE VENTILATION SUMMARY CALE AS INDICATED DRAWIN PJM CALE AS INDICATED DRAWIN PJM CALE AS INDICATED DRAWIN PJM CALE O2-28-2024 RUGCING.			G
SCO ID # 22-25364-02A			F
LENOIR COMMUNITY COLLEGE NEW AVIATION CENTER FOR EXCELLENCE KINSTON, NC DRAWING TITLE CALE AS INDICATED DRAWN PJM CHECKED PJM DATE 02-28-2024 ROJECT NO.	SCO ID # 22-25364-02A		E
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KINSTON, NC DRAWING TITLE VENTILATION SUMMARY CALE AS INDICATED DRAWIN PJM DRAWIN PJM DATE 02-28-2024 ROJECT NO.	LENOIR COMMUNITY CO	ENVILLE, NC 27858 252-355-1068	С
AS INDICATED DRAWN PJM CHECKED PJM DATE 02-28-2024 A PROJECT NO.	CENTER FOR KINSTOI DRAWING TITLE VENTILATION	EXCELLENCE N, NC	В
	AS INDICATED DRAWN PJM CHECKED PJM DATE 02-28-2024 PROJECT NO.	M3.2	A



						FLUID			ELECTRICAL	PHYSICAL
ID	LOCATION	TYPE	CONSTRUCTION	CONTROL	ACTUATOR TYPE	FLOW RATE (GPM)	HEAD LOSS (FT)	су	VOLT/PH/HZ	CONNEC SIZE (IN)
CV-AHU-2	AHU-2	BALL	BRONZE	MODULATING	ELECTRONIC	33.8	5	23	24/1/60	1.5
CV-VAV-1.1	VAV-1.1	BALL	BRONZE	MODULATING		3.5	5	2.4	24/1/60	0.5
CV-VAV-1.2	VAV-1.2	BALL	BRONZE	MODULATING		3.5	5	2.4	24/1/60	0.5
CV-VAV-1.3	VAV-1.3	BALL	BRONZE	MODULATING		0.5	5	0.3	24/1/60	0.5
CV-VAV-1.4	VAV-1.4	BALL	BRONZE	MODULATING	ELECTRONIC	0.5	5	0.3	24/1/60	0.5
CV-VAV-1.5	VAV-1.5	BALL	BRONZE		ELECTRONIC	1	5	0.0	24/1/60	0.5
CV-VAV-1.7	VAV-1.7	BALL	BRONZE		ELECTRONIC	1	5	0.7	24/1/60	0.5
CV-VAV-1.8	VAV-1.8	BALL	BRONZE	MODULATING		1	5	0.7	24/1/60	0.5
CV-VAV-1.9	VAV-1.9	BALL	BRONZE	MODULATING		2	5	1.4	24/1/60	0.5
CV-VAV-1.10	VAV-1.10	BALL	BRONZE	MODULATING	ELECTRONIC	0.5	5	0.3	24/1/60	0.5
CV-VAV-1.11	VAV-1.11	BALL	BRONZE	MODULATING		0.5	5	0.3	24/1/60	0.5
CV-VAV-1.12	VAV-1.12	BALL	BRONZE		ELECTRONIC	2	5	1.4	24/1/60	0.5
CV-VAV-1.13	VAV-1.13	BALL	BRONZE	MODULATING		1	5	0.7	24/1/60	0.5
CV-VAV-1.14	VAV-1.14	BALL	BRONZE	MODULATING		2	5	1.4	24/1/60	0.5
CV-VAV-1.15	VAV-1.15	BALL	BRONZE	MODULATING		1.5	5	1	24/1/60	0.5
CV-VAV-1.16	VAV-1.16	BALL	BRONZE	MODULATING		1	5	0.7	24/1/60	0.5
CV-VAV-1.17	VAV-1.17	BALL	BRONZE	MODULATING		1	5	0.7	24/1/60	0.5
CV-VAV-1.18	VAV-1.18	BALL	BRONZE	MODULATING		1	5	0.7	24/1/60	0.5
CV-VAV-1.19	VAV-1.19	BALL	BRONZE	MODULATING		1.5	5	1	24/1/60	0.5
CV-VAV-1.20	VAV-1.20	BALL	BRONZE		ELECTRONIC	1.5	5	1	24/1/60	0.5
CV-VAV-1.21	VAV-1.21	BALL	BRONZE	MODULATING		1.5	5	1	24/1/60	0.5
CV-VAV-1.22	VAV-1.22	BALL	BRONZE	MODULATING		1.5	5	1	24/1/60	0.5
CV-VAV-2.1	VAV-2.1	BALL	BRONZE	MODULATING	ELECTRONIC	3.5	5	2.4	24/1/60	0.5
CV-VAV-2.3	VAV-2.3	BALL	BRONZE	MODULATING		0.5	5	0.3	24/1/60	0.5
CV-VAV-2.4	VAV-2.4	BALL	BRONZE	MODULATING	ELECTRONIC	0.5	5	0.3	24/1/60	0.5
CV-VAV-2.5	VAV-2.5	BALL	BRONZE	MODULATING	ELECTRONIC	1	5	0.7	24/1/60	0.5
CV-VAV-2.6	VAV-2.6	BALL	BRONZE	MODULATING	ELECTRONIC	1	5	0.7	24/1/60	0.5
CV-VAV-2.7	VAV-2.7	BALL	BRONZE	MODULATING	ELECTRONIC	1	5	0.7	24/1/60	0.5
CV-VAV-2.8	VAV-2.8	BALL	BRONZE	MODULATING	ELECTRONIC	2	5	1.4	24/1/60	0.5
CV-VAV-2.9	VAV-2.9	BALL	BRONZE	MODULATING	ELECTRONIC	1	5	0.7	24/1/60	0.5
CV-VAV-2.10	VAV-2.10	BALL	BRONZE	MODULATING	ELECTRONIC	1	5	0.7	24/1/60	0.5
CV-VAV-2.11	VAV-2.11	BALL	BRONZE	MODULATING	ELECTRONIC	2	5	1.4	24/1/60	0.5
CV-VAV-2.12	VAV-2.12	BALL	BRONZE	MODULATING	ELECTRONIC	1	5	0.7	24/1/60	0.5
CV-VAV-2.13	VAV-2.13	BALL	BRONZE	MODULATING	ELECTRONIC	1	5	0.7	24/1/60	0.5
CV-VAV-2.14	VAV-2.14	BALL	BRONZE	MODULATING	ELECTRONIC	1	5	0.7	24/1/60	0.5
CV-VAV-2.15	VAV-2.15	BALL	BRONZE	MODULATING	ELECTRONIC	1	5	0.7	24/1/60	0.5
CV-VAV-2.16	VAV-2.16	BALL	BRONZE	MODULATING	ELECTRONIC	0.5	5	0.3	24/1/60	0.5
CV-VAV-2.17	VAV-2.17	BALL	BRONZE	MODULATING	ELECTRONIC	1	5	0.7	24/1/60	0.5
CV-VAV-2.18	VAV-2.18	BALL	BRONZE	MODULATING	ELECTRONIC	5	5	3.4	24/1/60	0.75

3-WAY CONTROL VALVE SCHEDULE											
						FLUID			ELECTRICAL	PHYSICAL	
						FLOW	HEAD			CONNEC	
				CONTROL	ACTUATOR	RATE	LOSS			SIZE	
ID	LOCATION	TYPE	CONSTRUCTION	TYPE	TYPE	(GPM)	(FT)	cv	VOLT/PH/HZ	(IN)	
CV-AHU-1	AHU-1	BALL	BRASS	MODULATING	ELECTRONIC	35.2	3.85	27.3	24/1/60	1.25	
CV-VAV-1.6	VAV-1.6	BALL	BRONZE	MODULATING	ELECTRONIC	1	5	0.7	24/1/60	0.5	
CV-VAV-2.2	VAV-2.2	BALL	BRONZE	MODULATING	ELECTRONIC	3.5	5	2.4	24/1/60	0.5	

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HOT WATER PIPING SCHEMATIC NOT TO SCALE

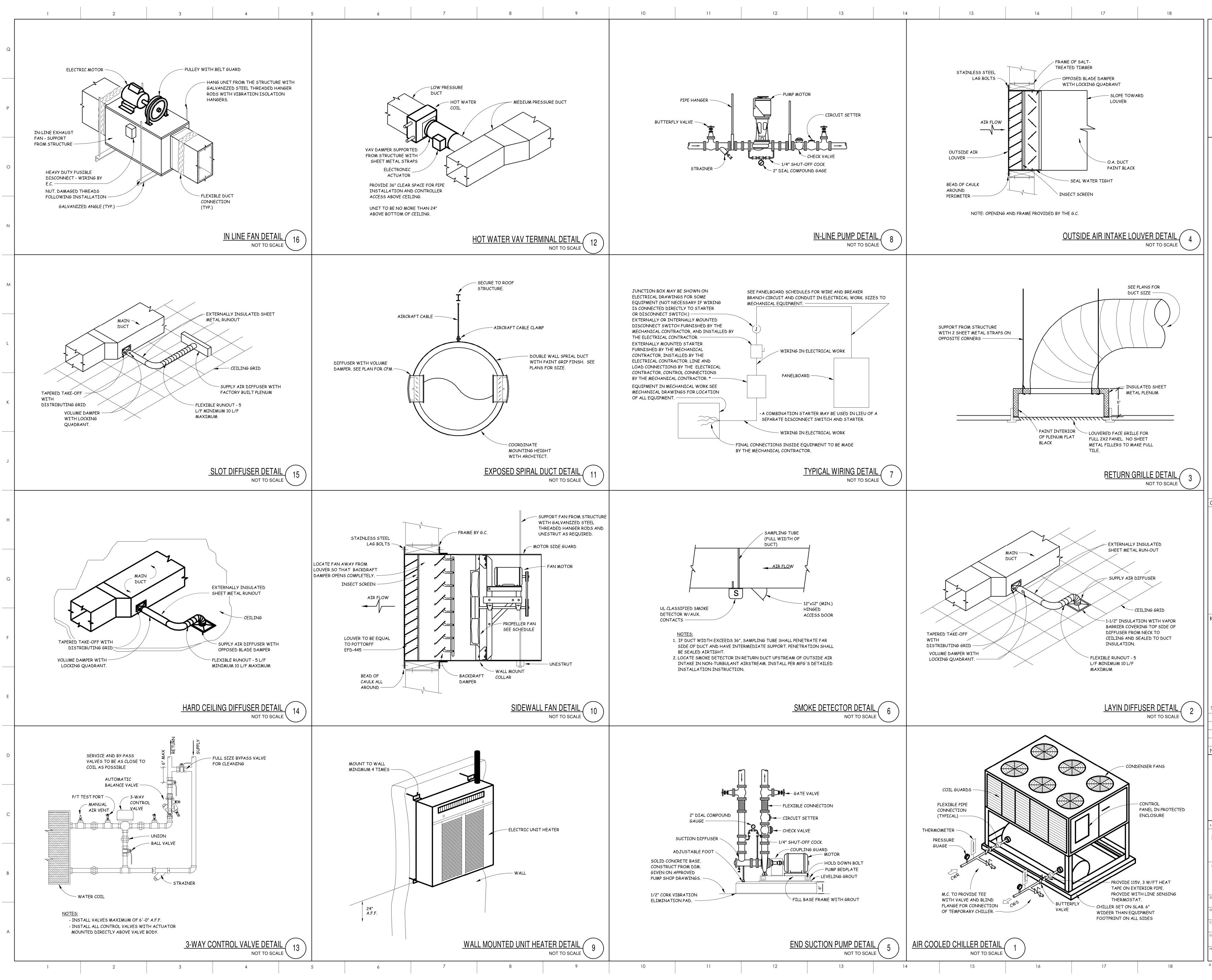
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50	CHEDULE										
	FLUID			ELECTRICAL	PHYSICAL						
	FLOW	HEAD			CONNECT						
R	RATE	LOSS			SIZE						
	(GPM)	(FT)	CV	VOLT/PH/HZ	(IN)						
IC	149.3	2.4	146.4	24/1/60	3.5						
50	CHEDUL	E									
	FLUID			ELECTRICAL	PHYSICAL						
	FLOW	HEAD			CONNECT						
R	RATE	LOSS			SIZE						
	(GPM)	(FT)	CV	VOLT/PH/HZ	(IN)						
IC	150.8	4.4	109.2	24/1/60	3.5						

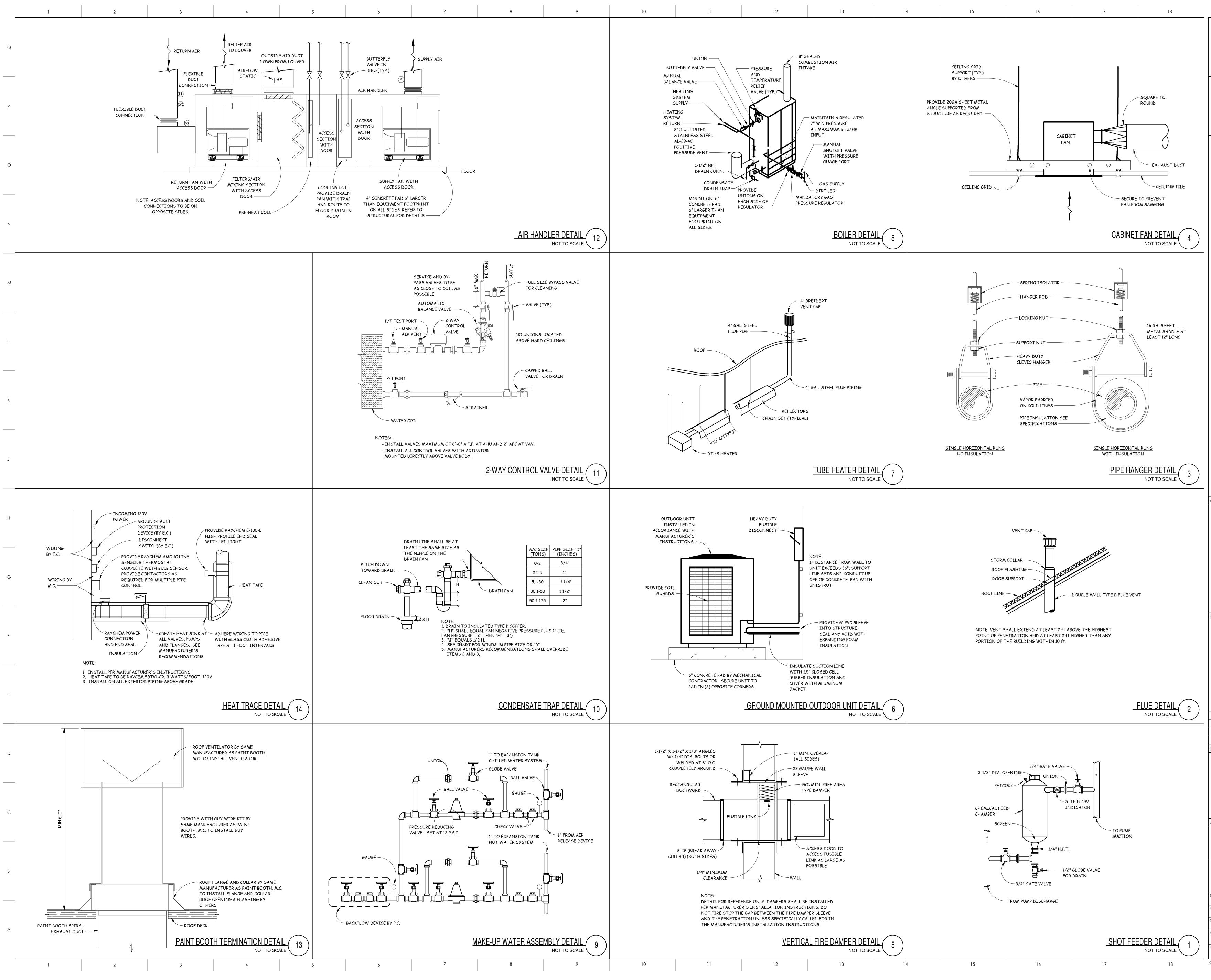
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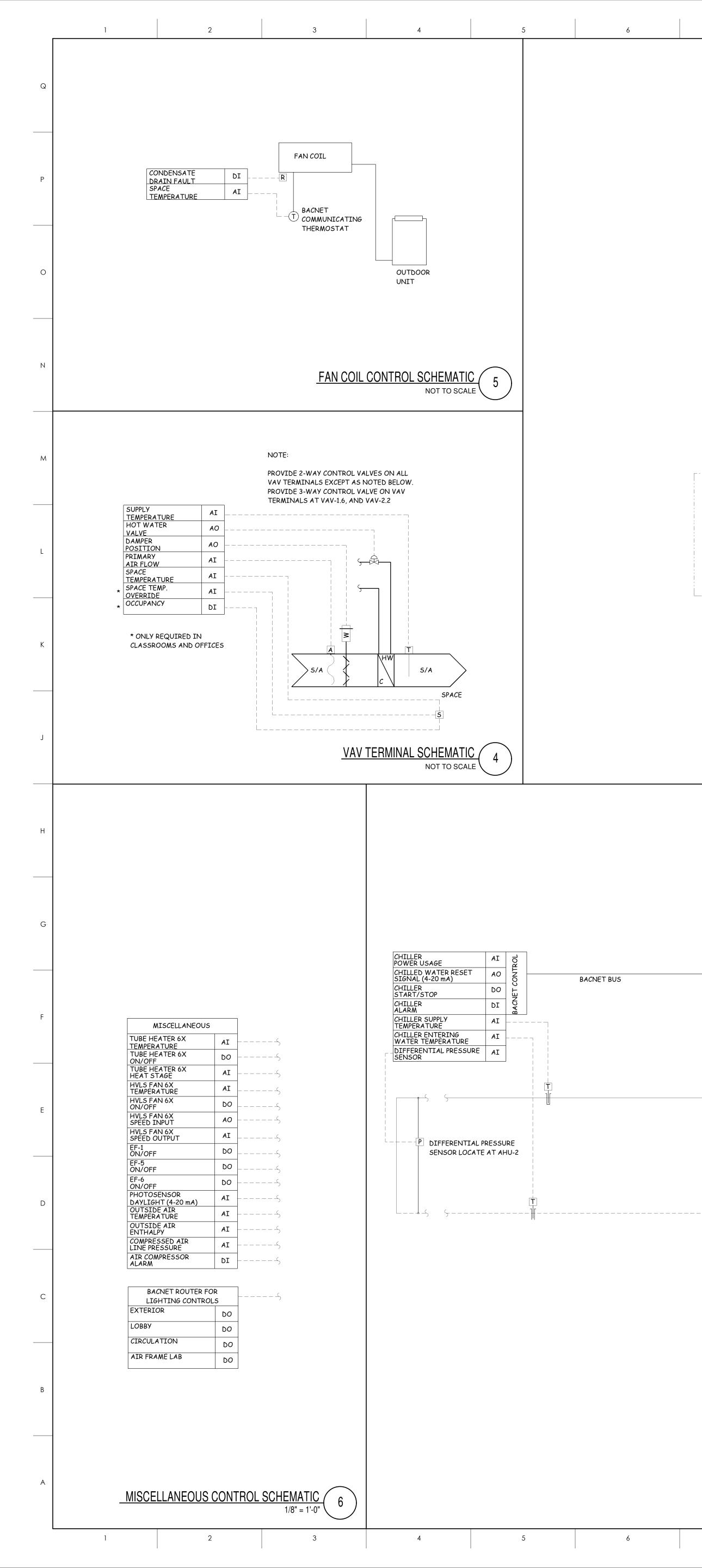
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RALEIGH, NC 27612 (919) 571-1111	Q
1505 ST. JAMES PLACE KINSTON, NC 28504 (252) 527-3336	
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225 LYNNDALE CT., SUITE F, GREENVILLE, NC 27858 252-355-1068 LENOIR COMMUNITY COLLEGE NEW AVIATION CENTER FOR EXCELLENCE KINSTON, NC DRAWING TITLE PIPING SCHEMATICS	
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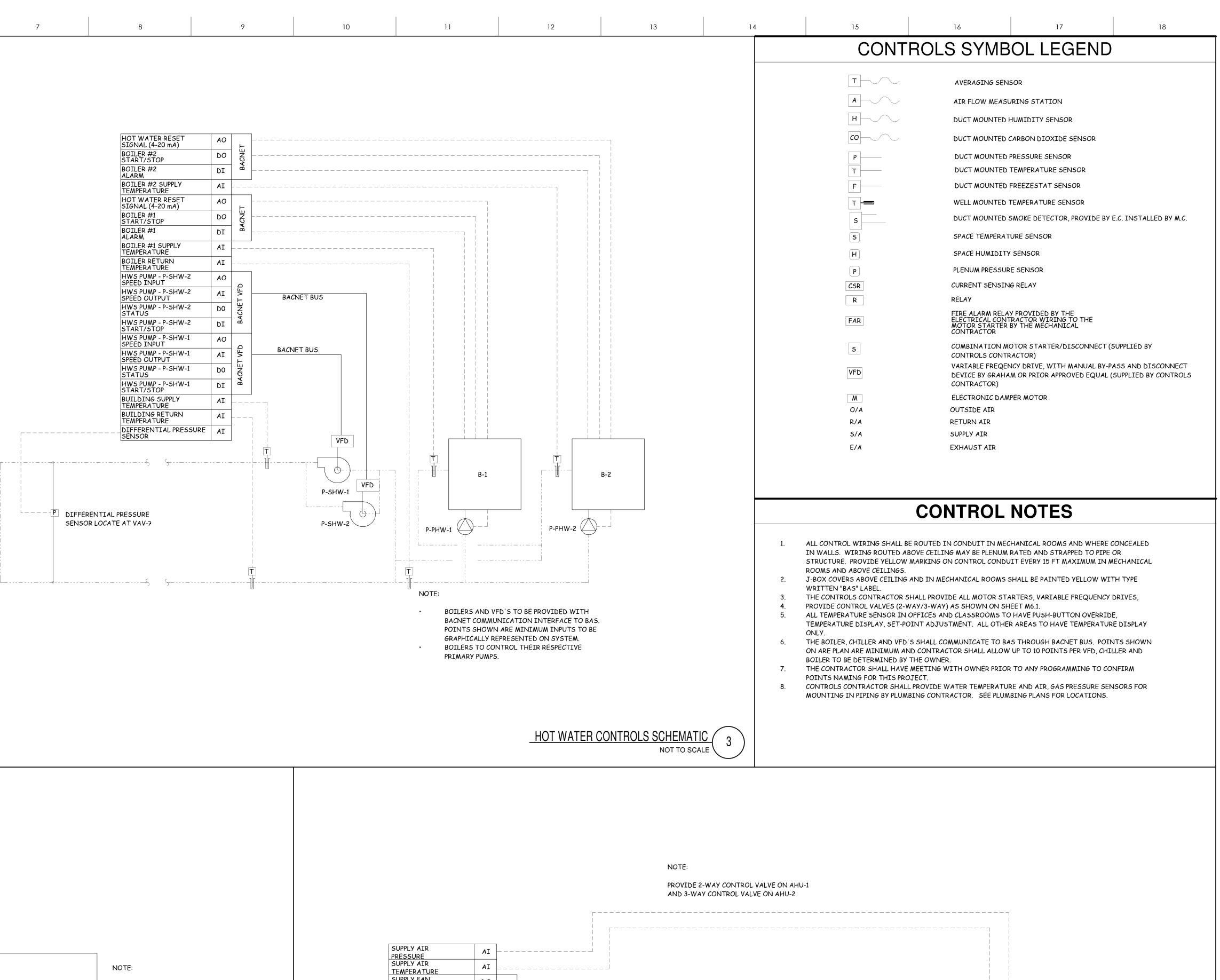


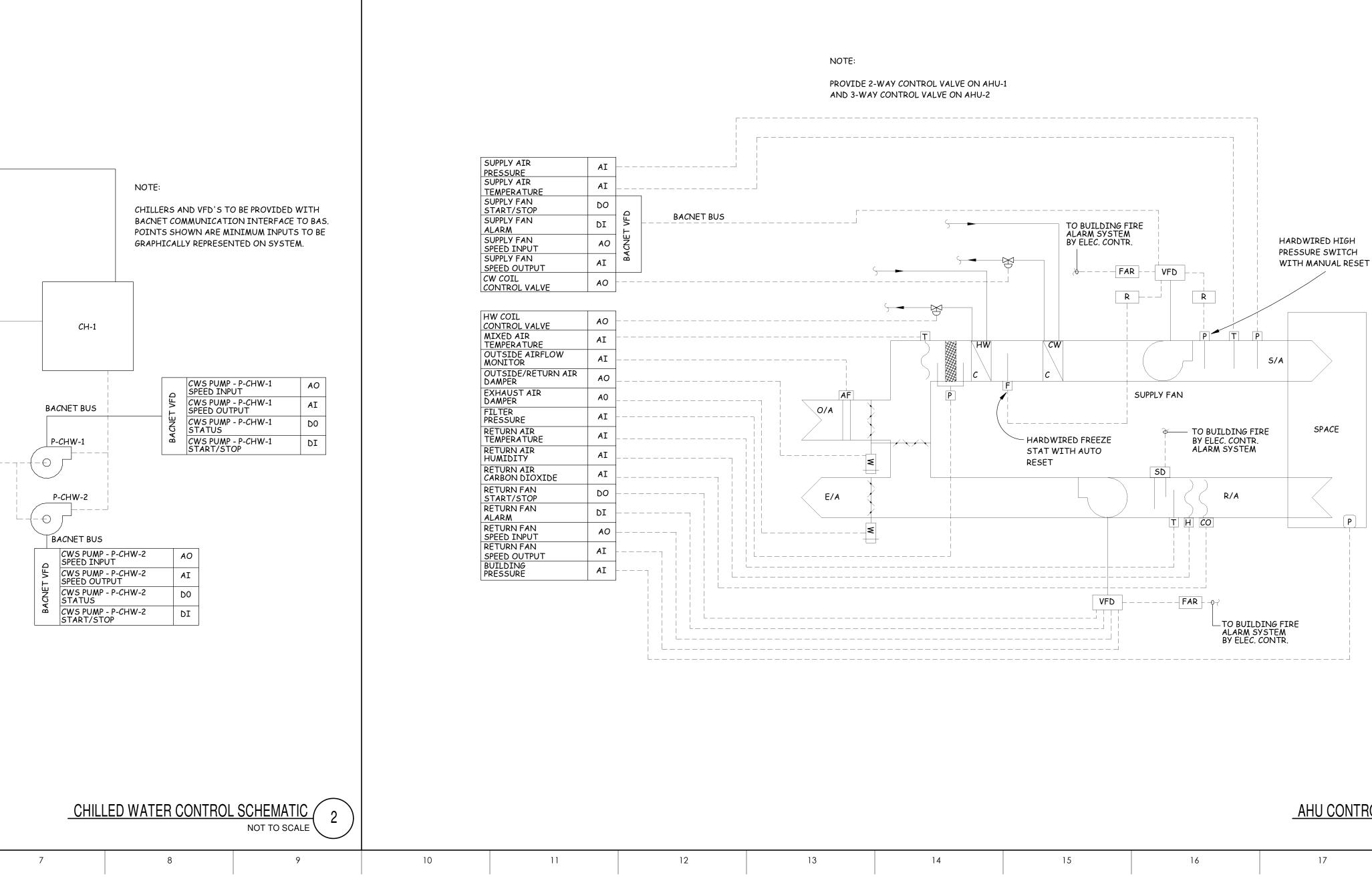
ENGINEERS, PA 3221 BLUE RIDGE ROAD, SUITE 113 RALEIGH, NC 27612 (919) 571-1111 1505 ST. JAMES PLACE KINSTON, NC 28504 (252) 527-3336 ATLANTE NGINEERS F 0 Ν ____ Μ GENERAL NOTES G KEY PLAN SCO ID # 22-25364-02A NO REVISION DATE ARCHITECTURE 25 LYNNDALE CT., SUITE F, GREENVILLE, NC 27858 252-355-10 LENOIR COMMUNITY COLLEGE NEW AVIATION CENTER FOR EXCELLENCE KINSTON, NC DRAWING TITLE MECHANICAL DETAILS AS INDICATED PJM PJM M5.⁻ 02-28-2024 **PROJECT NO** 2022-18



ENGINEERS, PA 3221 BLUE RIDGE ROAD, SUITE 113 RALEIGH, NC 27612 (919) 571-1111 1505 ST. JAMES PLACE KINSTON, NC 28504 (252) 527-3336 ATLANTE(NGINEERS P. 051195 lo. C-96 0 Ν GENERAL NOTES G KEY PLAN SCO ID # 22-25364-02A NO REVISION DATE ARCHITECTURE 25 LYNNDALE CT., SUITE F, GREENVILLE, NC 27858 252-355-10 LENOIR COMMUNITY COLLEGE NEW AVIATION CENTER FOR EXCELLENCE KINSTON, NC DRAWING TITLE MECHANICAL DETAILS AS INDICATED PJM M5.2 PJM 02-28-2024 **PROJECT NO** 2022-18







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(919) 571-1111 1505 ST. JAMES PLACE	Q
KINSTON, NC 28504 (252) 527-3336	
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25 LYNNDALE CT., SUITE F, GREENVILLE, NC 27858 252-355-1068	
LENOIR COMMUNITY COLLEGE NEW AVIATION CENTER FOR EXCELLENCE	
KINSTON, NC	
	В
CONTROLS DETAILS	
AS INDICATED	
PJM	
PJM M6.1	A
02-28-2024	
ROJECT NO.	

	SYMBOL LEGEND	
<u>YMBOL</u>	DESCRIPTION 2 X 2 TROFFER FIXTURE - LETTER DESIGNATES TYPE	<u>REMARKS</u> SEE FIXTURE SCHED.
	2 X 2 FLAT PANEL FIXTURE - LETTER DESIGNATES TYPE	SEE FIXTURE SCHED.
	2 X 4 FLAT PANEL FIXTURE - LETTER DESIGNATES TYPE	SEE FIXTURE SCHED.
]	WALL MOUNT LINEAR FIXTURE - LETTER DESIGNATES TYPE	SEE FIXTURE SCHED.
	LINEAR FIXTURE - LETTER DESIGNATES TYPE	SEE FIXTURE SCHED.
0	RECESSED CAN LIGHT FIXTURE - LETTER DESIGNATES TYPE	SEE FIXTURE SCHED.
	DECORATIVE LED PENDANT - LETTER DESIGNATES TYPE	SEE FIXTURE SCHED.
0	HIGH BAY LED PENDANT - LETTER DESIGNATES TYPE	SEE FIXTURE SCHED.
9 5	EXTERIOR WALL LIGHT FIXTURE - LETTER DESIGNATES TYPE	SEE FIXTURE SCHED.
Ô	POLE MOUNT FIXTURE WITH I LUMINAIRES - LETTER DESIGNATES TYPE	SEE FIXTURE SCHED.
Ê Ŏ <u></u> ₽	POLE MOUNT FIXTURE WITH 2 LUMINAIRES - LETTER DESIGNATES TYPE	SEE FIXTURE SCHED.
٢	LIT BOLLARD FIXTURE - LETTER DESIGNATES TYPE	SEE FIXTURE SCHED.
\$ ₹	EXIT LIGHT - CONNECT UNSWITCHED	SEE FIXTURE SCHED.
	SPECIAL SIGN - CONNECT UNSWITCHED PROVIDE WITH TEXT PER ARCHITECT INSTRUCTION.	SEE FIXTURE SCHED.
X	12' HVLS FAN - PROVIDED AND INSTALLED BY E.C.	BIG ASS FANS: POWERFOIL X4
FC	BACNET CAPABLE CENTRAL FAN CONTROLLER, MOUNT 42° A.F.F. CAPABLE OF CONTROLLING AT LEAST 6 FANS.	BIG ASS FANS: BAFCON
NR	BACNET ROUTER FOR LIGHTING CONTROLS, SEE J9/E5,1 FOR DETAIL FIELD COORDINATE INSTALLATION WITH CONTROLS CONTRACTOR,	TOUCHE': ER-B-10/100-120
₿	EMERGENCY LIGHTING INVERTER, MINIMUM 350 WATT RATED, MINIMUM 90 MINUTE RUNTIME, 277V INPUT AND OUTPUT,	MYERS: LV-2- 1-B 2001
ъс	EMERGENCY LIGHTING TRANSFER SWITCH WITH LOAD SHEDDING. SET DIP SWITCHES TO REDUCE FIXTURE POWER TO 25% DURING OUTAGE,	MYERS: EPC-D-F-LS
;	SET DIP SWITCHES TO REDUCE PATURE POWER TO 25% DURING OUTAGE. SINGLE POLE TOGGLE SWITCH. SEE A3/A8.I FOR TYPICAL MOUNTING HEIGHTS UNLESS NOTED OTHERWISE.	HUBBELL 1221-## WITH NPJI COVER PLATE
Š 3	THREE WAY TOGGLE SWITCH,	HUBBELL 1223-** WITH
ŴP	SEE A3/A8.1 FOR TYPICAL MOUNTING HEIGHTS UNLESS NOTED OTHERWISE. 20A SINGLE POLE TOGGLE SWITCH WITH NEMA 3R COVER PLATE SEE A3/A8.1 FOR TYPICAL MOUNTING LEIGUTS UNLESS NOTED OTHERWISE.	NPJI COVER PLATE BELL 5128-0 WITH
ਆ ਮੇ	SEE A3/A8.1 FOR TYPICAL MOUNTING HEIGHTS UNLESS NOTED OTHERWISE.	5320-0 Box Intermatic FF2H
à	SEE A3/A8.1 FOR TYPICAL MOUNTING HEIGHTS UNLESS NOTED OTHERWISE. SMART SWITCH SINGLE FUCTION TO BE USED AS TIMECLOCK OVERRIDE.	TOUCHE':
ð Þ	SEE A3/A8.1 FOR TYPICAL MOUNTING HEIGHTS UNLESS NOTED OTHERWISE. SMART SWITCH 2-BUTTON ON (RAISE) / OFF (LOWER)	SS-SF-WHT TOUCHE':
Ъ Ром	SEE A3/A8.1 FOR TYPICAL MOUNTING HEIGHTS UNLESS NOTED OTHERWISE. OCCUPANCY SWITCH DUAL TECHNOLOGY 0-10V DIMMING	SS-2B-WHT
	SEE A3/A8.1 FOR TYPICAL MOUNTING HEIGHTS UNLESS NOTED OTHERWISE. OCCUPANCY SWITCH DUAL TECHNOLOGY	SW-O-D-DIM-WHT-S2
À	SEE A3/A8.1 FOR TYPICAL MOUNTING HEIGHTS UNLESS NOTED OTHERWISE.	SW-O-D-WHT-S2
ÂMT	COLOR MINI TOUCHSCREEN WALL STATION SEE A3/A8.1 FOR TYPICAL MOUNTING HEIGHTS UNLESS NOTED OTHERWISE.	TOUCHE': WS-C-MIN
λ S	4.3° COLOR TOUCHSCREEN WALL STATION SEE A3/A8.1 FOR TYPICAL MOUNTING HEIGHTS UNLESS NOTED OTHERWISE.	TOUCHE': WS-TS-C-WHT
<u></u>	ROOM MANAGER - (2) 0-10V CHANNELS (2) BRANCH PORTS (2) SMART PORTS (2) DIGITAL INPUT PORTS (2) DIGITAL OUTPUT PORTS	TOUCHE': RM
	SMART LOAD CONTROL - DIMMING MODULE - 0-10V DIMMING	TOUCHE': SLC-DOIO
VIS	SMART SENSOR DUAL TECHNOLOGY, LOW HEIGHT, FLUSH MOUNT	TOUCHE': SMAOS-D-360-L-F-W
SP]	SMART PACK	TOUCHE': SP
٩	SPECIFICATION GRADE SIMPLEX RECEPTACLE. SEE A3/A8.I FOR TYPICAL MOUNTING HEIGHTS UNLESS NOTED OTHERWISE.	HUBBELL HBL5361 WIT NPJ7 COVER PLATE
₽	SPECIFICATION GRADE DUPLEX TAMPER RESISTANT RECEPTACLE. SEE A3/A8J FOR TYPICAL MOUNTING HEIGHTS UNLESS NOTED OTHERWISE.	HUBBELL HBL5362-#-TI NPJ8 COVER PLATE
 ₽	SPECIFICATION GRADE TAMPER RESISTANT GFCI RECEPTACLE SEE A3/A8.I FOR TYPICAL MOUNTING HEIGHTS UNLESS NOTED OTHERWISE.	HUBBELL GFTRST20-# NPJ26 COVER PLATE
∕ ₽ ¶	SPECIFICATION GRADE TAMPER RESISTANT, WEATHER RESISTANT AND GFCI DUPLEX RECEPTACLE WITH IN-USE WEATHER PROOF COVER,	HUBBELL GFTWRST20 WP26M COVER PLATE
-	SEE A3/A8.1 FOR TYPICAL MOUNTING HEIGHTS UNLESS NOTED OTHERWISE. SPECIFICATION GRADE DUPLEX TAMPER RESISTANT RECEPTACLE.	HUBBELL HBL5362-+-TI
T	SEE A3/A8.I FOR TYPICAL MOUNTING HEIGHTS UNLESS NOTED OTHERWISE. FED FROM GFCI CIRCUIT BREAKER.	
Ŧ	SPECIFICATION GRADE DUPLEX TAMPER RESISTANT RECEPTACLE MOUNT 4° ABOVE COUNTER/BACKSPLASH.	HUBBELL HBL5362-#-T NPJ8 COVER PLATE
⁼¹ ¶	SPECIFICATION GRADE TAMPER RESISTANT GFCI RECEPTACLE. MOUNT 4° ABOVE COUNTER/BACKSPLASH.	HUBBELL GFTRST20- NPJ26 COVER PLATE
₽	SPECIFICATION GRADE QUAD TAMPER RESISTANT RECEPTACLE SEE A3/A8J FOR TYPICAL MOUNTING HEIGHTS UNLESS NOTED OTHERWISE,	HUBBELL (2) HBL5362- NPJ82 COVER PLATE
<' `	POWER RECEPTACLE WITH GROUND, 'XX' DESIGNATES TYPE OR RATING. FIELD VERIFY NUMBER OF POLES AND NEUTRAL	HUBBELL TO MATCH
	SEE A3/A8.1 FOR TYPICAL MOUNTING HEIGHTS UNLESS NOTED OTHERWISE. 2 GANG ROUND RECESSED CONCRETE FLOOR BOX WITH FLAP COVER.	
	I GANG WITH DUPLEX TAMPER RESISTANT RECEPTACLE. I GANG FOR COMMUNICATION OUTLETS BY OTHERS, I' HUB FOR POWER, I 1/2" HUB FOR DATA. PROVIDE COVER TO MATCH FLOOR TYPE PER ARCHITECT INSTRUCTION. CUT AND PATCH FLOOR AS REQUIRED.	BOX: SIPFB COVER: SICFC-* PLATES: SISPDUSL REC: 5362TR-*
	4" 2 GANG ROUND FIRE-RATED POKE-THRU WITH FLAP COVER. I GANG WITH DUPLEX TAMPER RESISTANT RECEPTACLE.	HUBBELL: ASSEMBLY: SIPTAVIF"
	I GANG FOR COMMUNICATION OUTLETS BY OTHERS. 3/4°C STEM FOR POWER, I 1/2°C STEM FOR DATA.	COVER: SICFC-# PLATES: SISPDUSL
_	PROVIDE COVER TO MATCH FLOOR TYPE PER ARCHITECT INSTRUCTION. CORE DRILL AS REQUIRED.	REC: 5362TR-*
	2 GANG ROUND RECESSED CONCRETE FLOOR BOX WITH FLAP COVER. 2 GANG WITH QUAD RECEPTACLE. 1° HUB FOR POWER. PROVIDE COVER TO MATCH FLOOR TYPE PER	HUBBELL : BOX: SIPFB COVER: SI F C- -
-	ARCHITECT INSTRUCTION. OUT AND PATCH FLOOR AS REQUIRED.	PLATE: SISPDU REC: (2) 5362TR-==
	4" RECESSED FIRE-RATED POKE-THROUGH QUAD RECEPTACLE WITH COVER. 3/4" HUB FOR POWER. FINISH AND COVER TYPE PER ARCHITECT INSTRUCTION. CORE DRILL AS REQUIRED.	HUBBELL: ASSEMBLY: SIR4PT COVER: SIR4CVR-#
		PLATE: SIR4SPQUAD REC TO MATCH
	DEDICATED DUPLEX RECEPTACLE INSTALLED AT 10' A.F.F. WITH 100' CORD REEL. FIELD COORDINATE EXACT LOCATION WITH OWNER AND ARCHITECT.	HUBBELL: HBL5362-#-1 REELCRAFT: L 70100
	CEILING PANEL CABINET FAN. FURNISHED AND INSTALLED BY M.C., WIRED BY E.C.	SEE MECH, PLAN,
L	JUNCTION BOX SIZED PER N.E.C.	
F	JUNCTION BOXE FOR FURNITURE POWER CONNECTIONS. PROVIDE 3/4" CONDUIT FOR POWER TO ACCESSIBLE CEILING SPACE.	SINGLE GANG BOX
	FIELD COORDINATE INSTALLATION WITH ARCHITECT AND FURNITURE VENDOR PRIOR TO ROUGH-IN, PROVIDE WHIPS AND COVER PLATES AS REQUIRED.	
Ľ	DISCONNECT SWITCH SEE PLANS FOR SIZE AND TYPE	Square D Heavy Dut
$\overline{}$	NEW CONCEALED WIRING	PER N.E.C.
\	UNSWITCHED LIGHTING CONDUCTOR	PER N.E.C.
	HOME RUN TO PANEL BOARD	PER N.E.C.
	NUMBERS OF ARROW INDICATE CIRCUITS 120/208V 30, 4W PANEL BOARD - SEE PANEL SCHEDULES	SQUARE D NQ/HLINE
	277/480V 30, 4W PANEL BOARD - SEE PANEL SCHEDULES	SQUARE D NG/HLINE
TF	DRY TYPE DISTRIBUTION TRANSFORMER. SEE POWER RISER	SQUARE D
NOT	ES:	
I. E.C.	SHALL SUBMIT CATALOG SHEETS FOR COLOR AND MATERIAL APPROVAL EPTACLES, AND WALL PLATES TO ARCHITECT PRIOR TO PURCHASING.	OF ALL SWITCHES,
REC		
2. EQU	IVALENT LIGHTING CONTROL DEVICES BY LUTRON, WATTSTOPPER, OR OTH IAL ARE ACCEPTABLE,	ER APPROVED

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SYMBOL	CON PRC 'X'
▼	DUP UNLI SPA HON
4	QUA UNLI SPA HON
WAP	WIF WHE ACC 2 R. SEE
	POE STU 2 R. FIEL SEE
CR	SEC MOL PRC SEE
DL	SEC SEE
DC	SEC STU SEE
Ю	ADA MOL E.C. PRC
()	PAC E.C. PAT
(SP)	PAC E.C. PAT
AF.C.	ABC
AFF.	ABC GIVE
BF.F.	BEL
B.F.G.	BEL

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5. EQUIVALENT ELECTRICAL EQUIPMENT BY EATON, SIEMENS, OR OTHER APPROVED EQUAL ARE ACCEPTABLE.

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6. ARCHITECT'S MOUNTING HEIGHTS TO SUPERCEDE ANY MOUNTING HEIGHTS PROVIDED ON THESE PLANS, SEE A3/A8,I FOR TYPICAL MOUNTING HEIGHT FOR WALL MOUNTED DEVICES.

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<u>SYMBOL</u>	LEGEND CO	NTINUED	
	DESCRIPTION		<u>REMARKS</u>
PROVIDE GROUND BAR AN	ARD: 'X'" x 96" x 3/4" THICK FIREPROO D CONNECT 1-#6 AWG GROUND IN 1/2" XEBOARD LENGTH, CONFIRM WITH OWN	CONDUIT TO PANEL	TED TO WALL
UNLESS NOTED OTHERWISE SPACE, PROVIDE (2) RJ45	OUTLET - SEE A3/A8,1 FOR TYPICAL M E, STUB 3/4° CONDUIT TO ACCESSIBLE JACKS WITH T568B TERMINATIONS TO ATCH PANEL IN DATA ROOM ON RESPE	CEILING OR ATTIC CAT6 CABLES,	2 - RJ45 WITH WHITE PLATE
UNLESS NOTED OTHERWISE SPACE, PROVIDE (4) RJ45	JTLET - SEE A3/A8.1 FOR TYPICAL MOI E. STUB 3/4" CONDUIT TO ACCESSIBLE JACKS WITH T568B TERMINATIONS TO ATCH PANEL IN DATA ROOM ON RESPE	CEILING OR ATTIC CAT6 CABLES.	4 - RJ45 WITH WHITE PLATE
WHERE NO CEILING, PROVID ACCESSIBLE CEILING SPACE	CEILING PANEL OR STRUCTURE DE SINGLE GANG BOX AND 1° CONDUI DE 1 2 CAT 6 CABLES TO NEAREST PATC		2-R.145 BISCUIT JACKS SI3 COVER PLATE
2 RJ45 BISCUIT JACKS WIT	ESSIBLE CEILING OR ATTIC SPACE. TH 2 CAT 6 CABLES TO NEAREST PA EIGHT/LOCATION WITH ARCHITECT PRK		SINGLE GANG BOX 2-R.145 BISCUIT JACKS SI3 COVER PLATE
PROVIDE 1/2" CONDUIT TO .	18° A.F.F. UNLESS NOTED OTHERWISE. J-BOX ABOVE SECURED DOOR. 19/E5.2 FOR INSTALLATION AND WIRING		SINGLE GANG BOX SI3 COVER PLATE
SECURITY DOOR LOCK. SEE DETAIL N9/E5.2 AND J	19/E5.2 FOR INSTALLATION AND WIRING	REQUIREMENT.	
SECURITY DOOR CONTACT STUB 3/4" CONDUIT FROM SEE DETAIL AI8/E5.1 FOR D	T DOOR FRAME TO ACCESSIBLE CEILING DETAIL AND WIRING REQUIREMENT.	g space	
ADA DOOR PUSH BUTTON MOUNT 36" FROM CENTER E.C. TO INSTALL PER MAN PROVIDE LOW VOLTAGE C.	OF PUSH BUTTON TO FINISHED FLOOR JFACTURER INSTRUCTION	R. SEE NOTE #6.	FURNISHED BY G.C. INSTALLED BY E.C.
PAGING SPEAKER, CEILING E.C. TO PROVIDE (1) CATG (PATCH PANEL, TERMINATE	MOUNTED. PROVIDED AND INSTALLED CABLE FROM PAGING SPEAKER TO NE PER OWNER INSTRUCTION.	BY OWNER EAREST	DEVICE BY OTHERS
E.C. TO PROVIDE (1) CAT6 (IOUNTED, PROVIDED AND INSTALLED B' CABLE FROM PAGING SPEAKER TO NE PER OWNER INSTRUCTION.		DEVICE BY OTHERS
ABOVE FINISHED CEILING			
ABOVE FINISHED FLOOR - GIVEN ARE TO THE BOTTO	NOTE ALL MOUNTING DIMENSIONS M OF THE OUTLET BOX		

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LOW FINISHED FLOOR

LOW FINISHED GRADE

GENERAL NOTES

- THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR FLOOR PLAN DIMENSIONS. DO NOT SCALE THESE DRAWINGS.
- 2. THE ELECTRICAL CONTRACTOR SHALL COORDINATE ANY AND ALL WORK WITH OTHER TRADES INVOLVED IN THE PROJECT, PRIOR TO THE INSTALLATION OF HIS EQUIPMENT SO AS TO AVOID CONFLICTS DURING CONSTRUCTION AND TO ALLOW FOR OPTIMUM MAINTENANCE AND WORKING
- 3. USE OF THE CONDUIT SYSTEM FOR EQUIPMENT GROUNDING SHALL NOT BE ACCEPTABLE. A SEPARATE GREEN GROUND WIRE SHALL BE RUN WITH THE CIRCUIT CONDUCTORS IN EACH CONDUIT.
- ALL BREAKER SIZES, SHOWN FOR MECHANICAL EQUIPMENT, SHALL BE VERIFIED BEFORE THE PURCHASE OR INSTALLATION OF SAID EQUIPMENT, WITH THE EQUIPMENT SUPPLIER AND THE MECHANICAL CONTRACTOR. 5. ALL WORK AND MATERIAL SHALL BE PROVIDED IN ACCORDANCE WITH THE STATE, LOCAL AND NATIONAL CODES, ORDINANCES AND 2020 NATIONAL ELECTRICAL CODE (NFPA 70).
- 6. EACH CONTRACTOR SHALL PROVIDE HIS OWN SUPPORT OF ALL DEVICES AND EQUIPMENT PROVIDED BY HIM AND SHALL SUPPORT SUCH EQUIPMENT PER APPROVED GOVERNING CODES OR PER APPROVAL OF THE ENGINEER. UNACCEPTABLE WORKMANSHIP OR MATERIALS SHALL BE REPLACED AT THE REQUEST OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
- THE MOUNTING HEIGHTS AND LOCATIONS OF ALL WALL MOUNTED OUTLETS AND JUNCTION BOXES SHALL BE REVIEWED AND COORDINATED WITH THE ARCHITECT, PRIOR TO INSTALLATION FOR USE WITH THE ACTUAL EQUIPMENT, CASEWORK, AND MILLWORK TO BE FURNISHED. 8. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY DISCONNECTS, SWITCHES, AND RECEPTACLES UNDER THE ELECTRICAL BID AND SHALL INCLUDE ALL NECESSARY CIRCUITS TO AND FINAL CONNECTIONS TO THE EQUIPMENT PROVIDED BY ALL SUPPLIERS. <u>SEE DETAILS FOR</u> <u>CONNECTION TO EQUIPMENT PROVIDED BY MECHANICAL AND PLUMBING CONTRACTORS</u>
- 9. PENETRATION:
 WHERE ELECTRICAL EQUIPMENT PENETRATES RATED WALLS AND CEILINGS, EXTERIOR WALLS, THEY SHALL BE PROPERLY SEALED PER APPROVED UL METHODS.
 WHERE ELECTRICAL EQUIPMENT PENETRATES EXTERIOR WALLS, THEY SHALL BE PROPERLY SEALED WITH METHODS APPROVED BY THE ENGINEER. SUBMIT DETAIL OF PROPOSED SEALING METHODS
- 10. ALL PERMITS AND INSPECTION FEES SHALL BE SECURED AND PAID BY THE ELECTRICAL CONTRACTOR.
- II. ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR.
- 12. THE CONTRACTOR SHALL PROVIDE COMPLETE UPDATED TYPEWRITTEN PANEL SCHEDULES FOR ALL PANELBOARDS. 13. AS BUILT DRAWINGS SHALL BE GIVEN TO THE OWNER AT THE COMPLETION OF THE PROJECT.
- 14. THE CONTRACTOR SHALL VERIFY THE CEILING TYPES WITH THE GENERAL CONTRACTOR PRIOR TO THE PURCHASE OF ANY LIGHT FIXTURES SO THAT THE PROPER TRIM WILL BE PROVIDED FOR ALL FIXTURES, ANY DIFFERENCES WILL BE THE RESPONSIBILITY OF THIS CONTRACTOR.
- 15. ALL WIRE SIZES INDICATED ON THE PANEL SCHEDULES ARE BASED ON 75 DEGREE COPPER THHN/THWN WIRE, ALL WIRE TERMINALS AND EQUIPMENT SHALL BE LISTED AND APPROVED FOR 75°C. ONLY THWN-2 WIRE SHALL BE INSTALLED IN WET AND EXTERIOR LOCATION.
- 16. MINIMUM CONDUIT SIZE SHALL BE 1/2° AND MINIMUM WIRE SIZE SHALL BE #12 AWG.
- 17. THE USE OF AC AND MC TYPE CABLES IS PROHIBITED.
- 18. THE MAXIMUM NUMBER OF HOMERUNS IN A CONDUIT SHALL NOT EXCEED THREE (3). FEEDING CIRCUITS WITH SHARED NEUTRAL SHALL BE SWITCHED TOGETHER.
- 19. WHERE OUTLETS ARE SHOWN BACK TO BACK ON RATED WALLS, STAGGER OUTLETS SO THAT THEY ARE SEPARATED BY A MINIMUM OF 24".
- 20. ALL DISCONNECTS SHALL HAVE SEPARATE NEUTRAL AND GROUND BARS. 21. ALL PANELS SHALL BE THREE PHASE, FOUR WIRE UNLESS OTHERWISE NOTED.
- 22. BOXES AND CONDUITS SHALL NOT BE INSTALLED RECESSED IN A 3-HOUR OR HIGHER RATED WALL. WHEN OUTLETS ARE INDICATED ON THESE WALLS, FIELD COORDINATE CONDUIT AND BOX INSTALLATION.
- 23. FOR ALL RECEPTACLES LOCATED ABOVE COUNTER TOP, MOUNTING HEIGHT SHALL COMPLY WITH ANSI AII7.I, SECTION 308. E.C. SHALL FIELD VERIFY CASEWORK DETAIL WITH ARCHITECT PRIOR TO ROUGHIN.
- 24. ELECTRICAL IDENTIFICATION
 FURNISH AND INSTALL ENGRAVED LAMINATED PHENOLIC NAMEPLATES FOR ALL SAFETY SWITCHES, PANEL BOARDS, TRANSFORMERS, SWITCHBOARDS, MOTOR CONTROL CENTERS AND OTHER ELECTRICAL EQUIPMENT SUPPLIED FOR THE PROJECT FOR IDENTIFICATION.
 FURNISH AND INSTALL SELF-ADHESIVE PLASTIC TAPE FOR ALL RECEPTACLE AND WALL SWITCH COVER PLATES INDICATING CIRCUIT NUMBERS.
- 25. THE ELECTRICAL CONTRACTOR SHALL FIELD COORDINATE THE INSTALLATION OF THE NEW UNDERGROUND ELECTRICAL SERVICE WITH THE LOCAL UTILITY. THE OWNER SHALL PAY ALL CHARGES FOR THE INSTALLATION OF THE NEW UNDERGROUND UTILITY SERVICE.
- 26. THE ELECTRICAL CONTRACTOR SHALL FIELD COORDINATE THE LOCATION OF HIS TELECOM CONDUIT STUB OUTS WITH THE LOCAL SERVICE PROVIDER PRIOR TO HIS INSTALLING ANY CONDUITS.
- 27. UNDERGROUND RACEWAY:
- A. RACEWAYS RUN EXTERNAL TO BUILDING FOUNDATION WALLS, WITH THE EXCEPTION OF BRANCH CIRCUIT RACEWAYS, SHALL BE ENCASED WITH A MINIMUM OF THREE (3) INCHES OF CONCRETE ON ALL SIDES.
- a. ENCASED RACEWAYS MUST HAVE A MINIMUM COVER OF EIGHTEEN (18) INCHES, EXCEPT FOR RACEWAY CONTAINING CIRCUITS WITH VOLTAGES ABOVE 600V, WHICH MUST HAVE A MINIMUM COVER OF THIRTY (30) INCHES. b. ENCASED RACEWAYS SHALL BE OF A TYPE APPROVED BY THE NEC AS "SUITABLE FOR CONCRETE ENCASEMENT'.
- B. BRANCH CIRCUIT RACEWAYS RUN UNDERGROUND EXTERNAL TO BUILDING FOUNDATION WALLS SHALL BE RUN IN RACEWAYS INSTALLED IN ACCORDANCE WITH THE NEC, AND SHALL BE OF A TYPE APPROVED BY THE NEC AS "SUITABLE FOR DIRECT BURIAL." MINIMUM RACEWAY SIZE SHALL BE ".
- C. ALL UNDERGROUND RACEWAYS SHALL BE IDENTIFIED BY UNDERGROUND LINE MARKING TAPE LOCATED DIRECTLY ABOVE THE RACEWAY AT 6 TO 8 INCHES BELOW FINISHED GRADE. TAPE SHALL BE PERMANENT, BRIGHT-COLORED, CONTINUOUS PRINTED, PLASTIC TAPE COMPOUNDED FOR DIRECT BURIAL NOT LESS THAN 6 INCHES WIDE AND 4 MILS THICK. PRINTED LEGEND SHALL BE INDICATIVE OF GENERAL TYPE UNDERGROUND LINE BELOW.
- D. RACEWAYS RUN UNDERGROUND INTERNAL TO BUILDING FOUNDATION WALLS SHALL BE OF A TYPE AND INSTALLED BY A METHOD APPROVED BY THE NEC.
- E. WHERE UNDERGROUND RACEWAYS ARE REQUIRED TO TURN UP INTO CABINETS, EQUIPMENT, ETC., AND ON TO POLES, THE ELBOW REQUIRED AND THE STUB-UP OUT OF THE SLAB OR EARTH SHALL BE OF RIGID STEEL. F. THE RACEWAY SYSTEM SHALL NOT BE RELIED ON FOR GROUNDING CONTINUITY.
- G. WHERE PASSING THROUGH A 'BELOW GRADE' WALL FROM A CONDITIONED INTERIOR BUILDING SPACE, RACEWAYS SHALL BE SEALED UTILIZING FITTINGS SIMILAR AND EQUAL TO OZ/GEDNEY TYPE 'FSK' THRU-WALL FITTING WITH 'FSKA' MEMBRANE CLAMP ADAPTER IF REQUIRED,
- 28. SEE SPECIFICATIONS FOR ADDITIONAL DETAIL. 29. PROVIDE SEISMIC RESTRAINT AS REQUIRED PER ASCE 7-10 CHAPTER 13. SEE APPENDIX B FOR SEISMIC DESIGN CATEGORY AND RISK FACTOR INFORMATION.

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2018 NORTH CAROLINA ENERGY CODE

16

FLUORESCENT T8/T5

ELECTRICAL SYSTEM AND EQUIPMENT METHOD OF COMPLIANCE: PRESCRIPTIVE

LIGHTING SCHEDULE:

LED

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INCAN

N/A

N/A

N/A

N/A

CFL

N/A

N/A

N/A

N/A

49616

44654 **

LAMP TYPE REQUIRED: NUMBER OF LAMPS: BALLAST TYPE USED: NUMBER OF BALLASTS TOTAL WATTAGE PER FIXTURE:

15

N/A SEE FIXTURE N/A N/A SCHEDULE N/A SPECIFIED ALLOWED BY CODE INTERIOR WATTAGE UNIVERSITY 27687 TOTAL EXTERIOR WATTAGE ZONE 3

ALLOWANCE 750 TRADABLE 1536 TOTAL 1780 2286

NOTES:

** PER SECTION C406.3, THE WHOLE AREA ALLOWED BY CODE IS REQUIRED TO BE 10% LOWER THAN THOSE CALCULATED PER SECTION C405.4.2.
• VALUE CALCULATE PER SECTION C405.4.2: 49616 WATTS
• VALUE PER SECTION C406.3: 44654 WATTS

ALL EXTERIOR LIGHTS:
CONTROLLED BY PHOTOCELL THAT WILL NOT INTENDED TO BE ON FOR 24 HOUR OPERATION.

DESIGNER STATEMENT: TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE DESIGN OF THIS BUILDING COMPLIES WITH THE ELECTRICAL SYSTEM AND EQUIPMENT REQUIREMENTS OF THE NORTH CAROLINA STATE BUILDING CODE, 2018 - ENERGY.

SIGNED: NAME: TITLE: MATTHEW C. BRILEY, P.E. ENGINEER

COORDINATION DRAWINGS

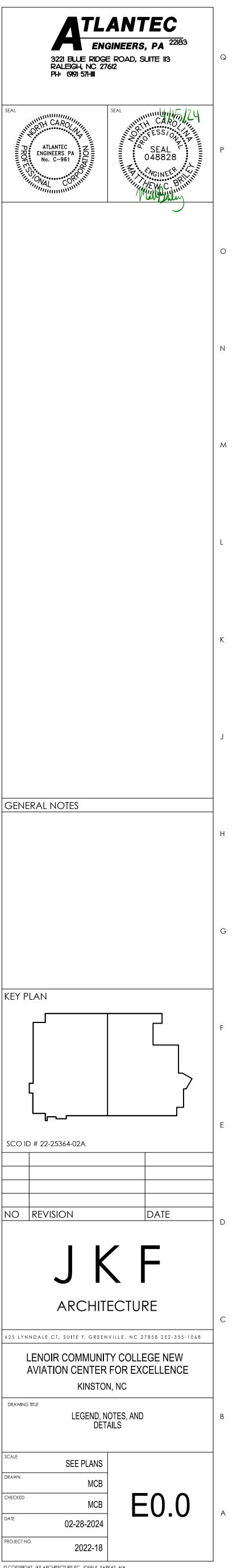
THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING COORDINATION DRAWINGS TO IDENTIFY AND RESOLVE INSTALLATION OF ALL PIPE, DUCT, EQUIPMENT, CONDUIT, HANGERS, ETC. NECESSARY FOR COMPLETE AND OPERATIONAL PLUMBING, MECHANICAL, FIRE PROTECTION, ELECTRICAL, AND FIRE ALARM SYSTEMS SHOWN ON THESE DRAWINGS. CONTRACTOR SHALL INCLUDE WEEKLY MEETING TO FACILITATE THE PRODUCTION OF COORDINATION DRAWINGS. IT SHALL BE THE GENERAL CONTRACTOR'S RESPONSIBILITY THAT ALL TRADES PARTICIPATE IN PREPARATION OF COORDINATION DRAWINGS AND THE INSTALLATION OF WORK IS IN ACCORDANCE WITH DRAWINGS, SEE SPECIFICATION SECTION 01300.

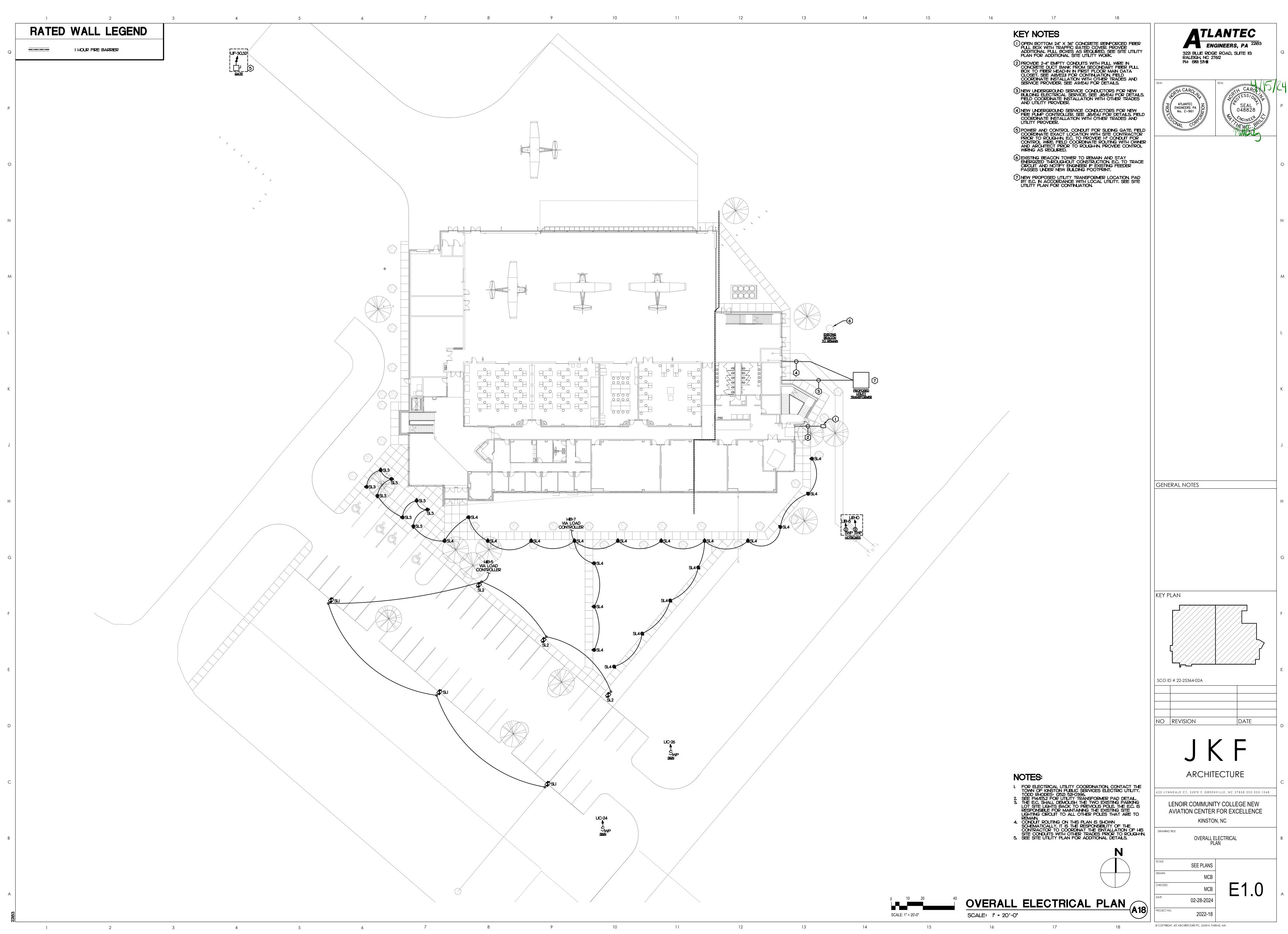
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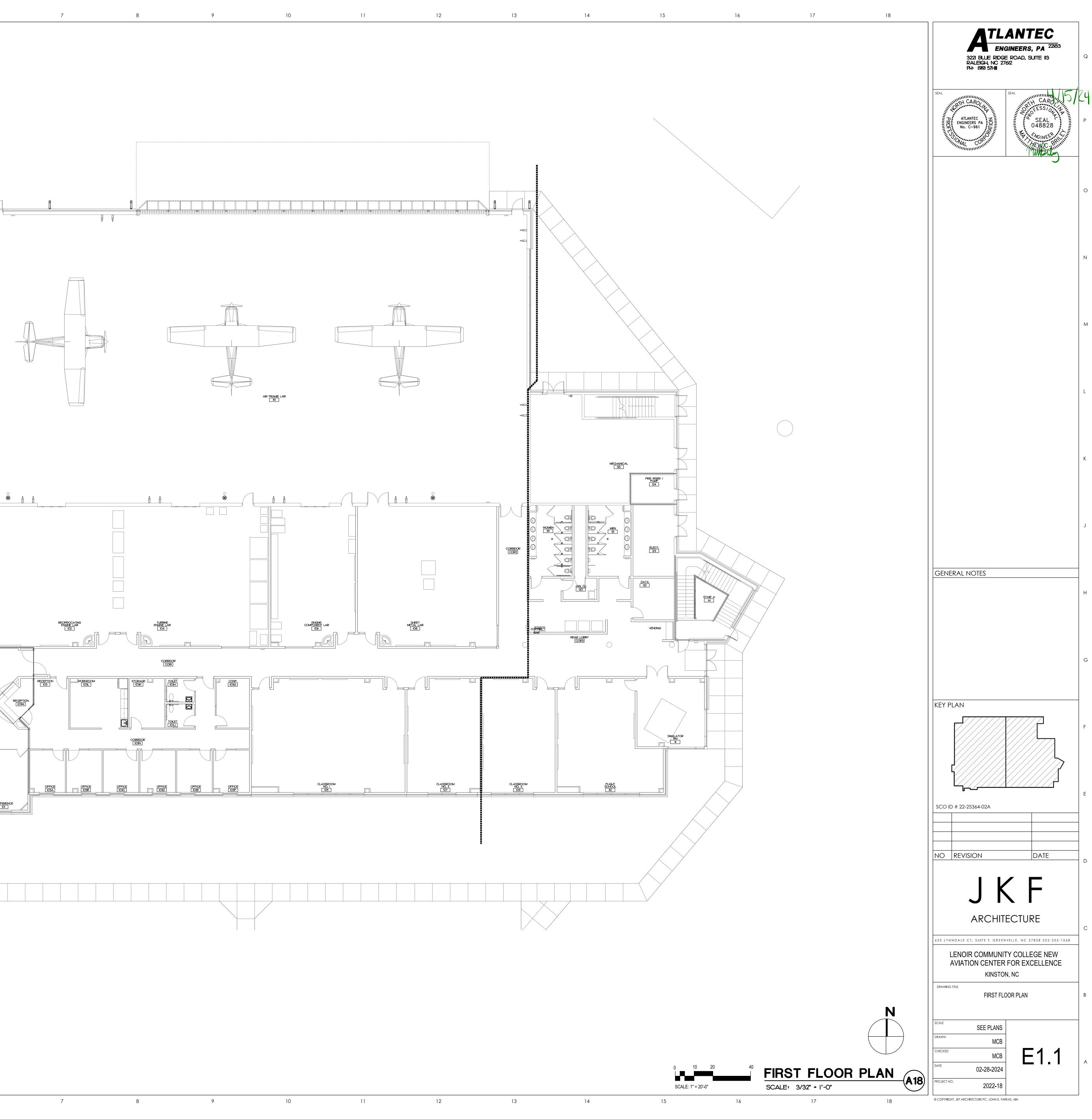
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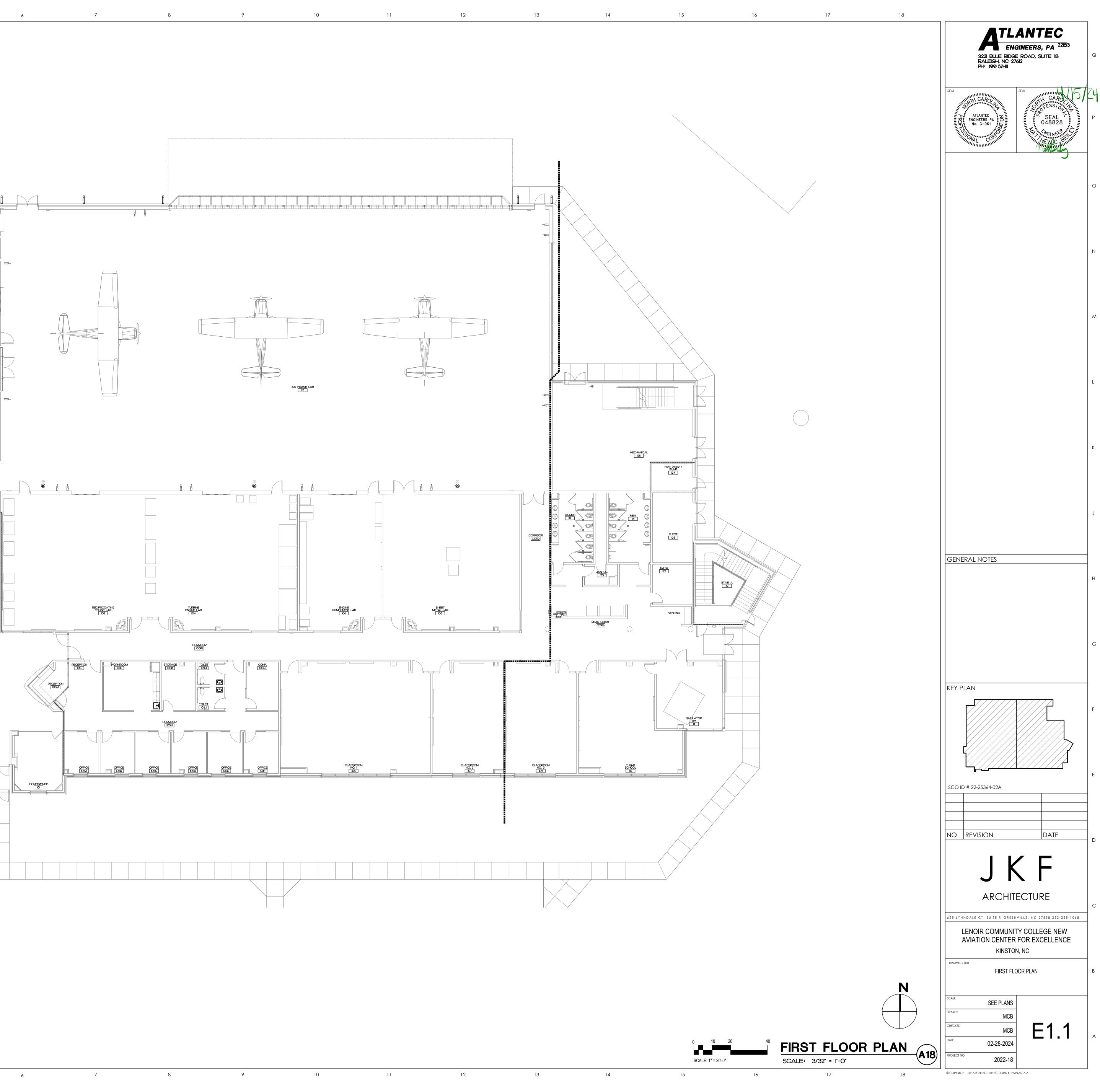
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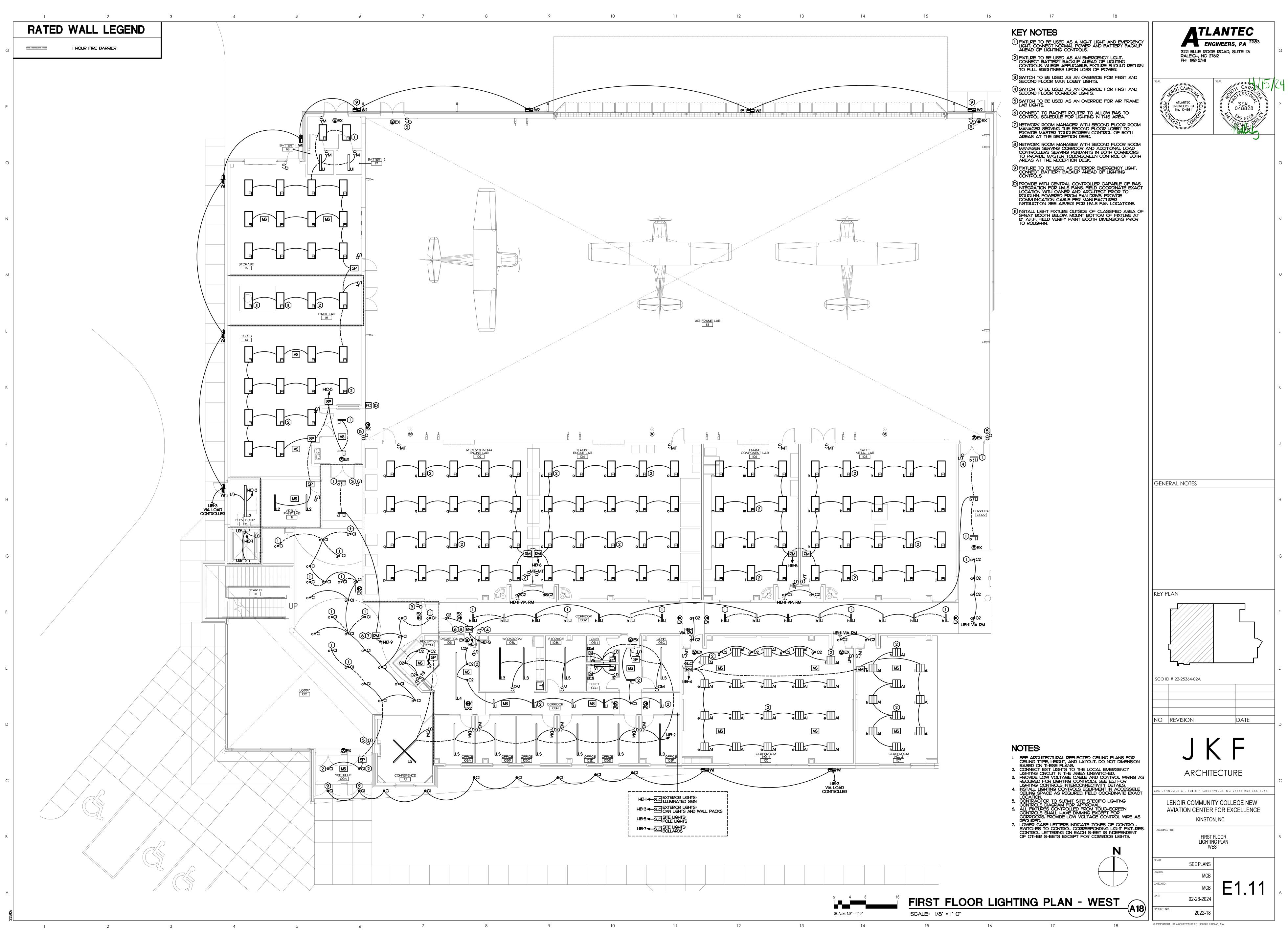




4 3 2 1 5 6 RATED WALL LEGEND I HOUR FIRE BARRIER STORAGE PAINT LAB TOOLS ELEV, EQUIP VIRTUAL PAINT LAB LOBBY VESTIBULE В А 6 3 4 5 1 2







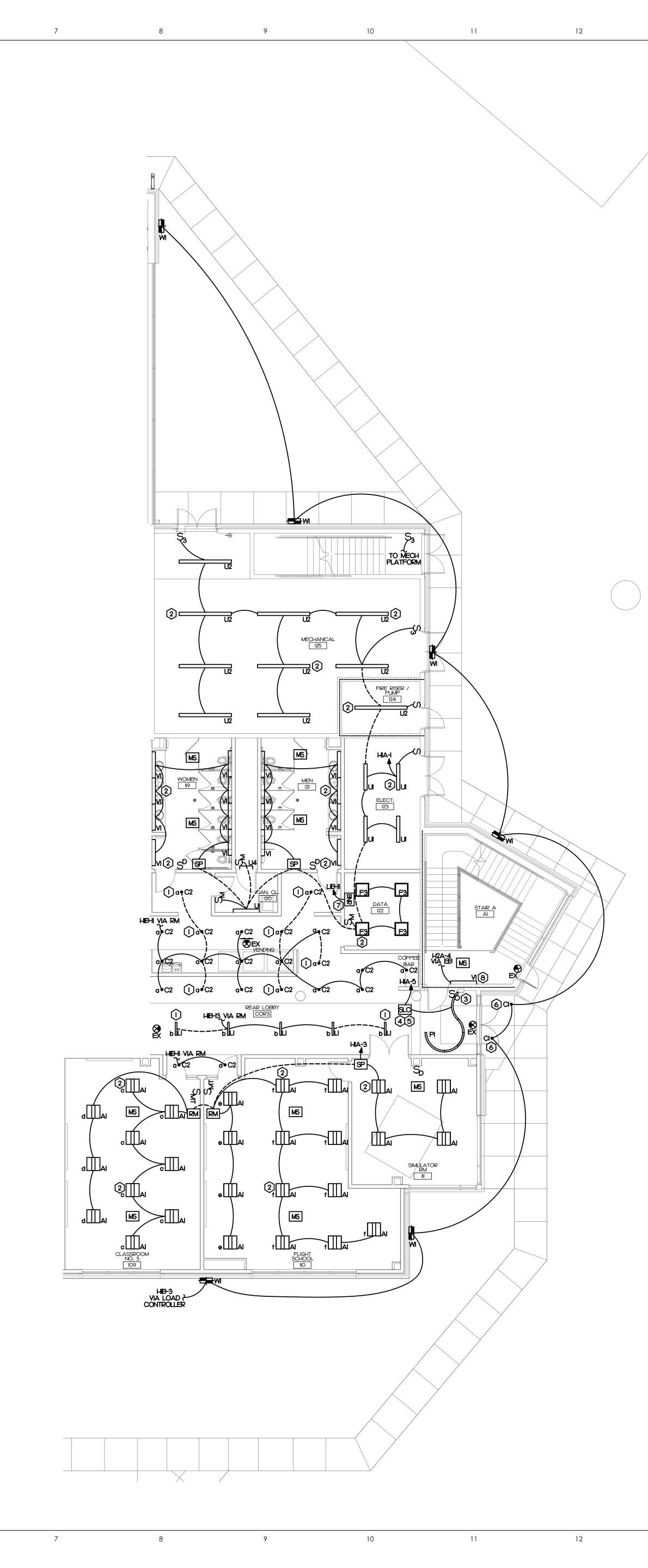
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FIXTURE TO BE USED AS A NIGHT LIGHT AND EMERGENCY LIGHT. CONNECT NORMAL POWER AND BATTERY BACKUP AHEAD OF LIGHTING CONTROLS.

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2) FIXTURE TO BE USED AS AN EMERGENCY LIGHT. CONNECT BATTERY BACKUP AHEAD OF LIGHTING CONTROLS. WHERE APPLICABLE, FIXTURE SHOULD RETURN TO FULL BRIGHTNESS UPON LOSS OF POWER. (3) SWITCH TO BE USED AS AN OVERRIDE FOR FIRST AND SECOND FLOOR CORRIDOR LIGHTS.

(4) CONNECT TO BACNET ROUTER TO ALLOW BAS TO CONTROL SCHEDULE FOR LIGHTING IN THIS AREA.

5) NETWORK ROOM MANAGER WITH SECOND FLOOR ROOM MANAGER SERVING CORRIDOR AND ADDITIONAL LOAD CONTROLLERS SERVING PENDANTS IN BOTH CORRIDORS TO PROVIDE MASTER TOUCHSCREEN CONTROL OF BOTH AREAS AT THE RECEPTION DESK.

6 FIXTURE TO BE USED AS EXTERIOR EMERGENCY LIGHT. CONNECT BATTERY BACKUP AHEAD OF LIGHTING CONTROLS.

(7) BACNET ROUTER PROVIDED AND INSTALLED BY E.C. FIELD COORDINATE EXACT LOCATION WITH OWNER AND ARCHITECT PRIOR TO ROUGH-IN.

8) FIXTURE TO BE USED AS AN EMERGENCY LIGHT. CONNECT FIXTURE VIA EMERGENCY LIGHTING INVERTER IN ELEC 218. FIXTURE TO RETURN TO FULL BRIGHTNESS UPON LOSS OF POWER.

NOTES:

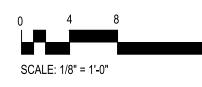
- L REFLECTED CEILING PLANS FOR IT, AND LAYOUT. DO NOT DIMENSION
- . WIRING ONTDOLS

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KEGUIRED FOR LIGHTING CONTROLS, SEE EST FOR LIGHTING CONTROLS INTERCONNECTIVITY DETAILS,
4. INSTALL LIGHTING CONTROLS EQUIPMENT IN ACCESSIBLE CEILING SPACE AS REQUIRED, FIELD COORDINATE EXACT LOCATION,
5. CONTRACTOR TO SUBMIT SITE SPECIFIC LIGHTING CONTROLS DIAGRAM FOR APPROVAL,
6. ALL FIXTURES CONTROLLED FROM TOUCHSCREEN CONTROLS SHALL HAVE DIMMING EXCEPT FOR CORRIDORS, PROVIDE LOW VOLTAGE CONTROL WIRE AS REQUIRED,
7. LOWER CASE LETTERS INDICATE ZONES OF CONTROL. SWITCHES TO CONTROL CORRESPONDING LIGHT FIXTURES. CONTROL LETTERING ON EACH SHEET IS INDEPENDENT OF OTHER SHEETS EXCEPT FOR CORRIDOR LIGHTS.



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

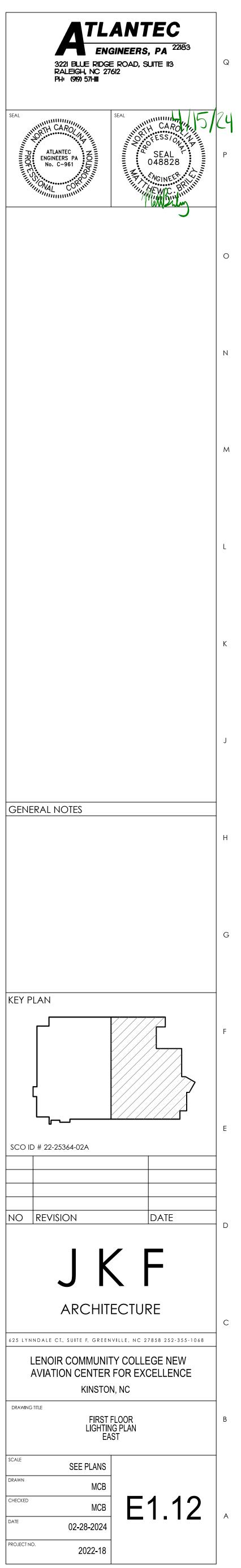
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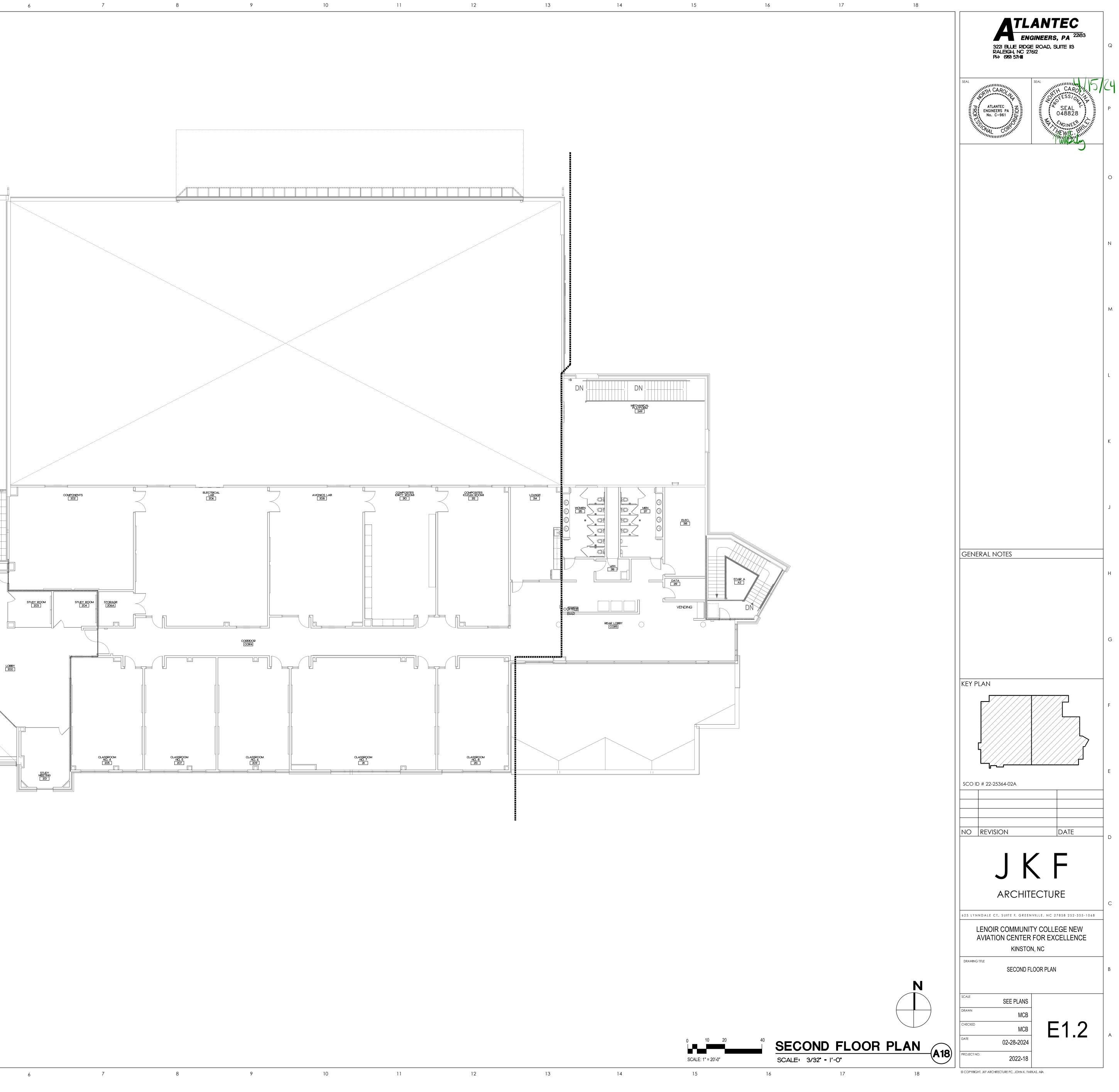


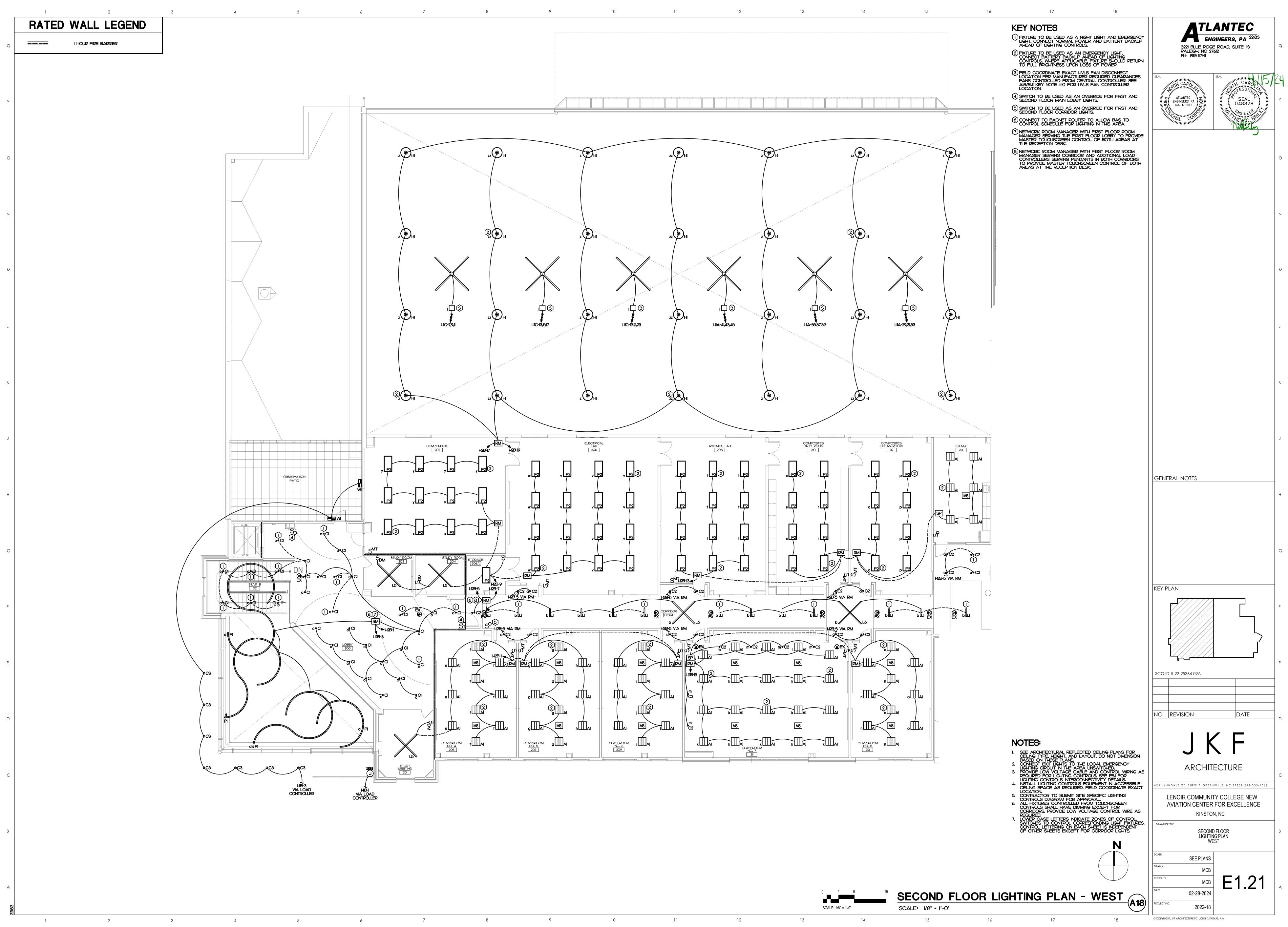
2 3 4 5 6 7 8 9 1 RATED WALL LEGEND I HOUR FIRE BARRIER \cap $\bigcirc \\$ Κ OBSERVATION PATIO <u>____</u> STUDY ROOM DN 🕂 STAIR B LOBBY 200 D В А

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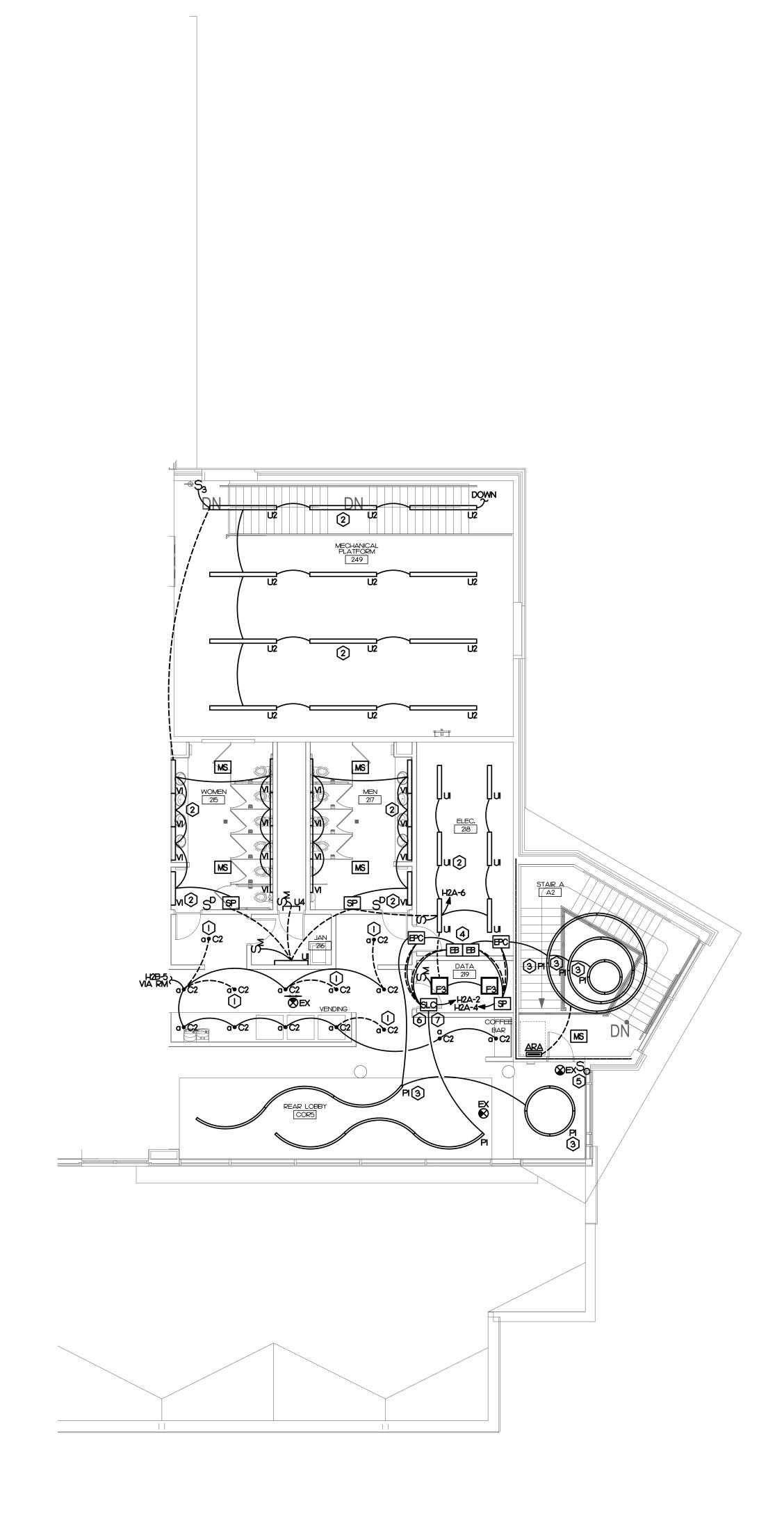
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	I HOUR FIRE BAR	RER				



FIXTURE TO BE USED AS A NIGHT LIGHT AND EMERGENCY LIGHT. CONNECT NORMAL POWER AND BATTERY BACKUP AHEAD OF LIGHTING CONTROLS.

2 FIXTURE TO BE USED AS AN EMERGENCY LIGHT. CONNECT BATTERY BACKUP AHEAD OF LIGHTING CONTROLS. WHERE APPLICABLE, FIXTURE SHOULD RETURN TO FULL BRIGHTNESS UPON LOSS OF POWER. 3 FIXTURE TO BE USED AS AN EMERGENCY LIGHT. CONNECT EMERGENCY INVERTER AND LOAD SHEDDING DEVICE AHEAD OF LIGHTING CONTROLS, LOAD SHEDDING DEVICE TO REDUCE FIXTURES TO 25% BRIGHTNESS UPON LOSS OF NORMAL POWER.

(4) FIELD COORDINATE INSTALLATION OF EMERGENCY INVERTERS TO PROVIDE ADEQUATE WORKING SPACE FOR ELECTRICAL EQUIPMENT.

5 SWITCH TO BE USED AS AN OVERRIDE FOR FIRST AND SECOND FLOOR CORRIDOR LIGHTS.

6 CONNECT TO BACNET ROUTER TO ALLOW BAS TO CONTROL SCHEDULE FOR LIGHTING IN THIS AREA.

7 NETWORK ROOM MANAGER WITH SECOND FLOOR ROOM MANAGER SERVING CORRIDOR AND ADDITIONAL LOAD CONTROLLERS SERVING PENDANTS IN BOTH CORRIDORS TO PROVIDE MASTER TOUCHSCREEN CONTROL OF BOTH AREAS AT THE RECEPTION DESK.

NOTES:

- L REFLECTED CEILING PLANS FOR IT, AND LAYOUT. DO NOT DIMENSION

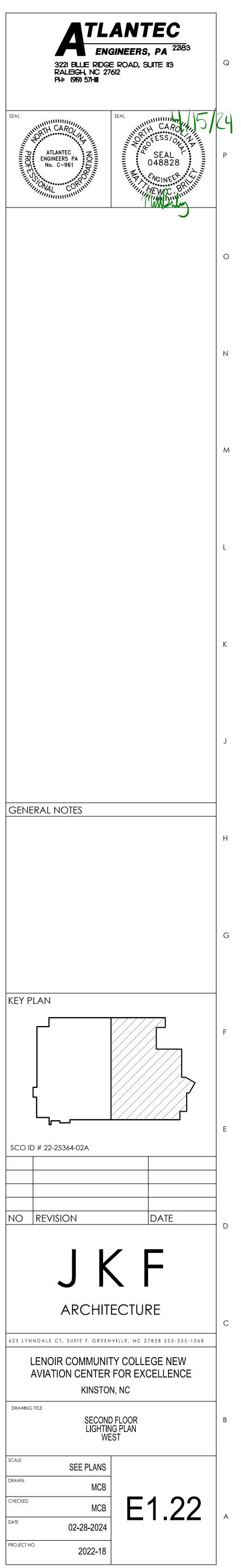
REGUIRED FOR LIGHTING CONTROLS. SEE ESJ FOR LIGHTING CONTROLS INTERCONNECTIVITY DETAILS.
INSTALL LIGHTING CONTROLS EQUIPMENT IN ACCESSIBLE CEILING SPACE AS REQUIRED. FIELD COORDINATE EXACT LOCATION.
CONTRACTOR TO SUBMIT SITE SPECIFIC LIGHTING CONTROLS DIAGRAM FOR APPROVAL.
ALL FIXTURES CONTROLLED FROM TOUCHSCREEN CONTROLS SHALL HAVE DIMMING EXCEPT FOR CORRIDORS. PROVIDE LOW VOLTAGE CONTROL WIRE AS REQUIRED.
LOWER CASE LETTERS INDICATE ZONES OF CONTROL. SWITCHES TO CONTROL CORRESPONDING LIGHT FIXTURES. CONTROL LETTERING ON EACH SHEET IS INDEPENDENT OF OTHER SHEETS EXCEPT FOR CORRIDOR LIGHTS.

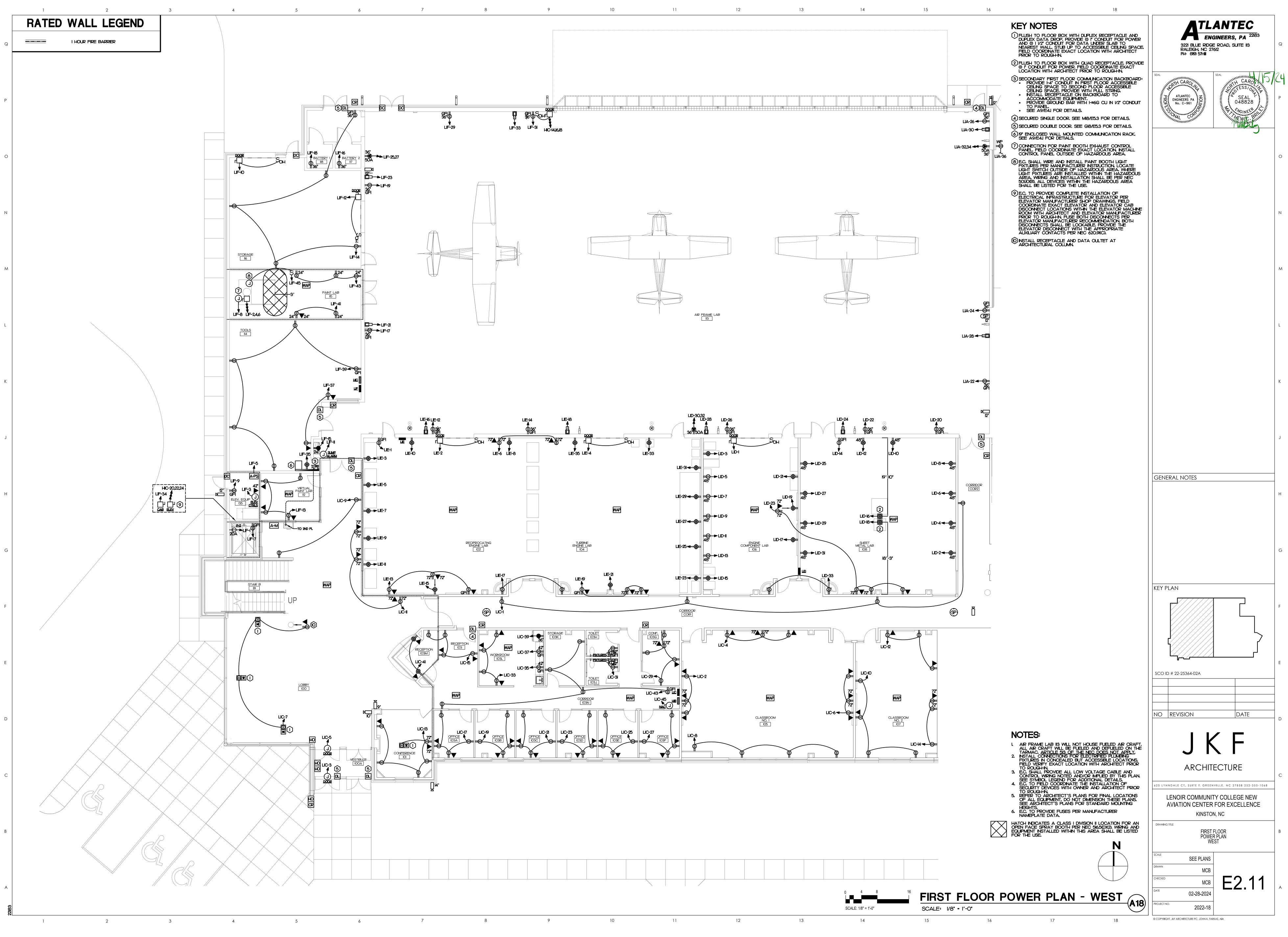




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SCALE: 1/8" = 1'-0"





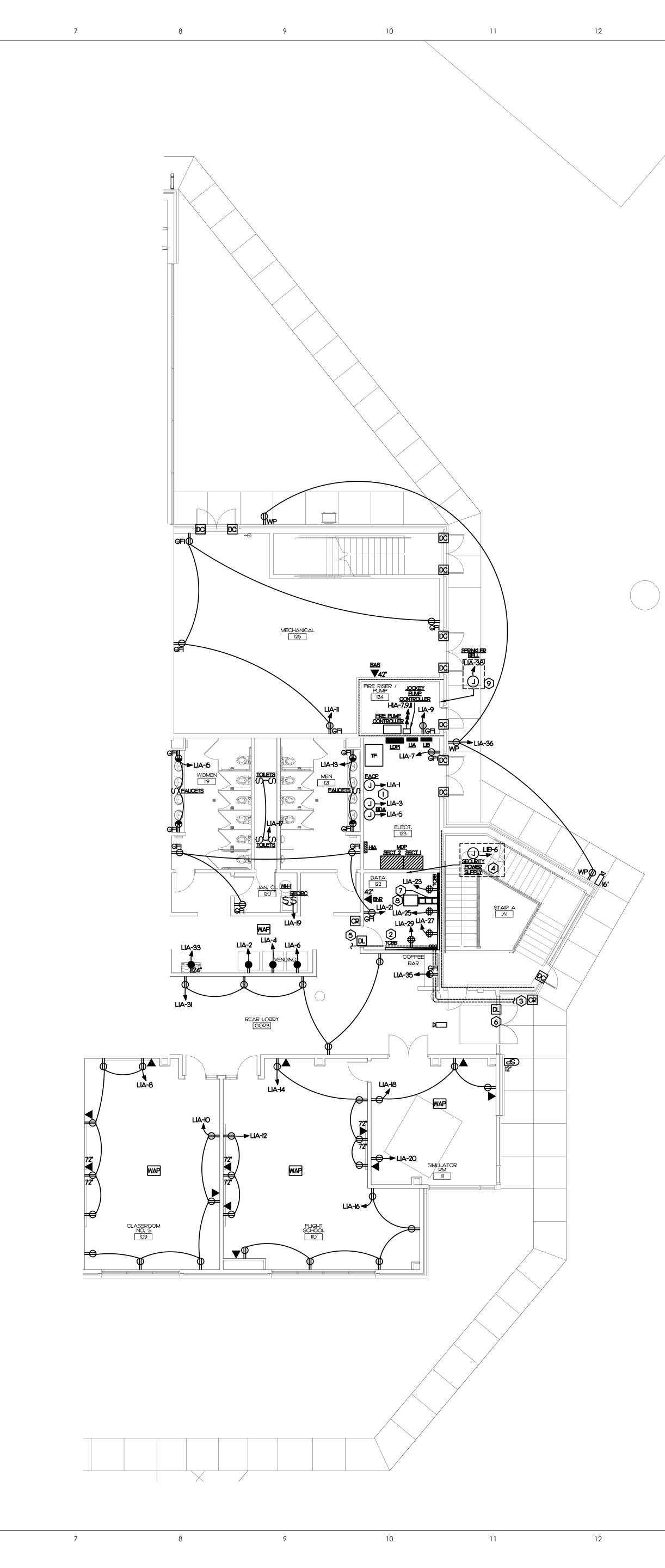
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() PROVIDE FACP CIRCUIT WITH SURGE PROTECTION DEVICE AND COIL BRANCH CIRCUIT PER SCO FIRE ALARM GUIDELINES. 2 PRIMARY FIRST FLOOR COMMUNICATION BACKBOARD; • PROVIDE 1-4" CONDUIT UNDER SLAB WITH A 12 STRAND, SINGLE MODE, FIBER CABLE TO THE SECONDARY FIRST FLOOR COMMUNICATION BACKBOARD IN TOOLS

- 14. PROVIDE 2-4" CONDUIT SLEEVES WITH PULL STRING AND A 12 STRAND, SINGLE MODE, FIBER CABLE TO THE SECOND FLOOR COMMUNICATION BACKBOARD IN DATA 20
- INE SECOND FLOOR CONTRACTOR IN A LONG TO DATA 219.
 INSTALL RECEPTACLES ON BACKBOARD TO ACCOMMODATE EQUIPMENT.
 PROVIDE GROUND BAR WITH H#6G CU IN 1/2" CONDUIT TO DANEL
- TO PANEL. SEE A9/E4.1 FOR DETAILS.

(3) SEE A18/ELO FOR CONTINUATION OF TELECOMMUNICATION SERVICE DUCT BANK. SEE A9/E4.1 FOR DETAILS.

4) SECURITY SYSTEM POWER SUPPLY UNIT.
 SEE DETAIL AI8/E4.I.
 FIELD VERIFY LOCATION TO BE ADJACENT TO SECURITY CONTROL PANEL WITH OWNER'S CONTRACTOR. SECURITY CONTROL PANEL IS FURNISHED AND ISNTALLED BY OWNER'S CONTRACTOR.

(5) SECURED SINGLE DOOR. SEE MI8/E5.3 FOR DETAILS. (6) SECURED DOUBLE DOOR. SEE G18/E5.3 FOR DETAILS.

(7) 12" LADDER TYPE CABLE TRAY AT 84" A.F.F.

(8) 19" FREESTANDING COMMUNICATION RACK. SEE A9/E4.1 FOR DETIALS.

9 FIELD COORDINATE EXACT FIRE SPRINKLER ELECTRIC BELL LOCATION WITH SPRINKLER CONTRACTOR PRIOR TO ROUGH-IN.

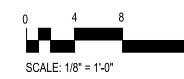


- INSTALL CONNECTIONS FOR ELECTRIFIED PLUMBING FIXTURES IN CONCEALED BUT ACCESSIBLE LOCATIONS. FIELD VERIFY EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
 E.C. SHALL PROVIDE ALL LOW VOLTAGE CABLE AND CONTROL WIRING NOTED AND/OR IMPLIED BY THIS PLAN. SEE SYMBOL LEGEND FOR ADDITIONAL DETAILS.
 E.C. TO FIELD COORDINATE THE INSTALLATION OF SECURITY DEVICES WITH OWNER AND ARCHITECT PRIOR TO ROUGH-IN.
 REFER TO ARCHITECT'S PLANS FOR FINAL LOCATIONS OF ALL EQUIPMENT. DO NOT DIMENSION THESE PLANS. SEE ARCHITECT'S PLANS FOR STANDARD MOUNTING HEIGHTS.
 E.C. TO PROVIDE FUSES PER MANUFACTURER NAMEPLATE DATA.

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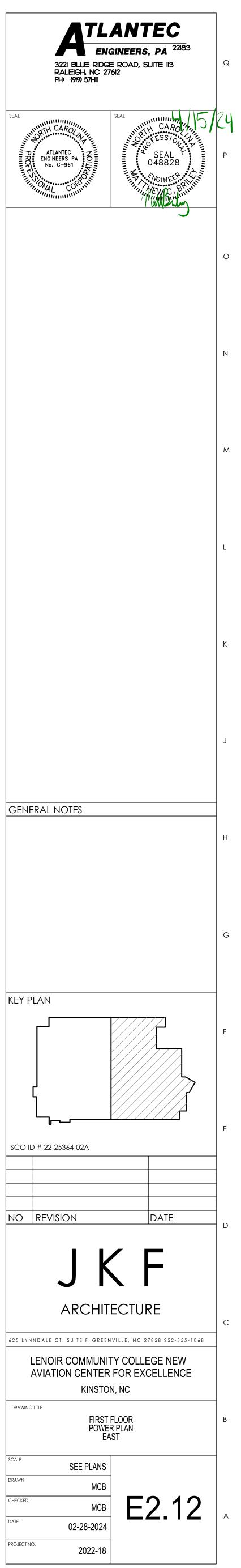
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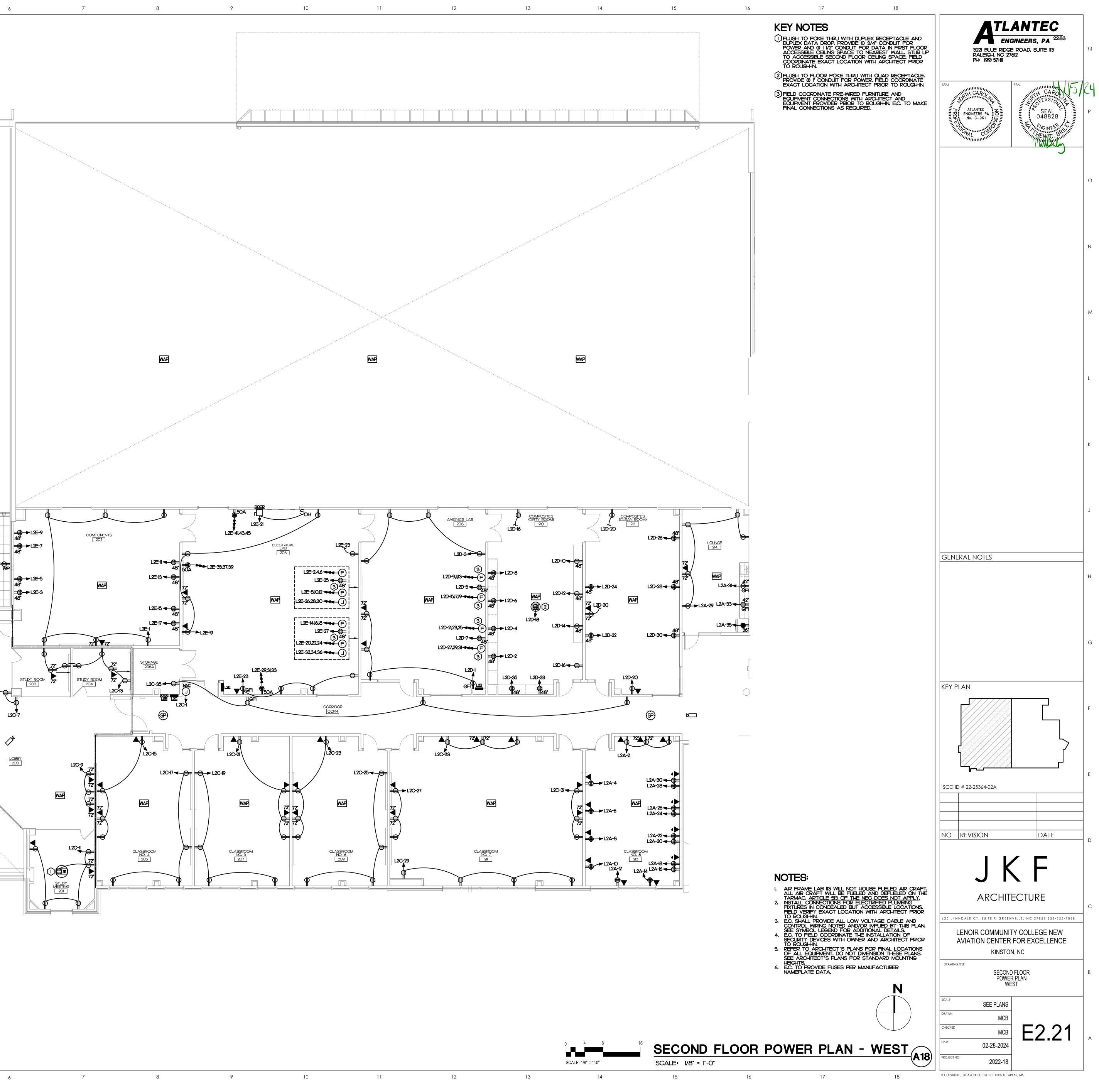


3 2 4 1 5 6 RATED WALL LEGEND I HOUR FIRE BARRIER $\bigcirc >$ OBSERVATION ΡΑΤΙΟ WAP STAIR B LOBBY 200 В

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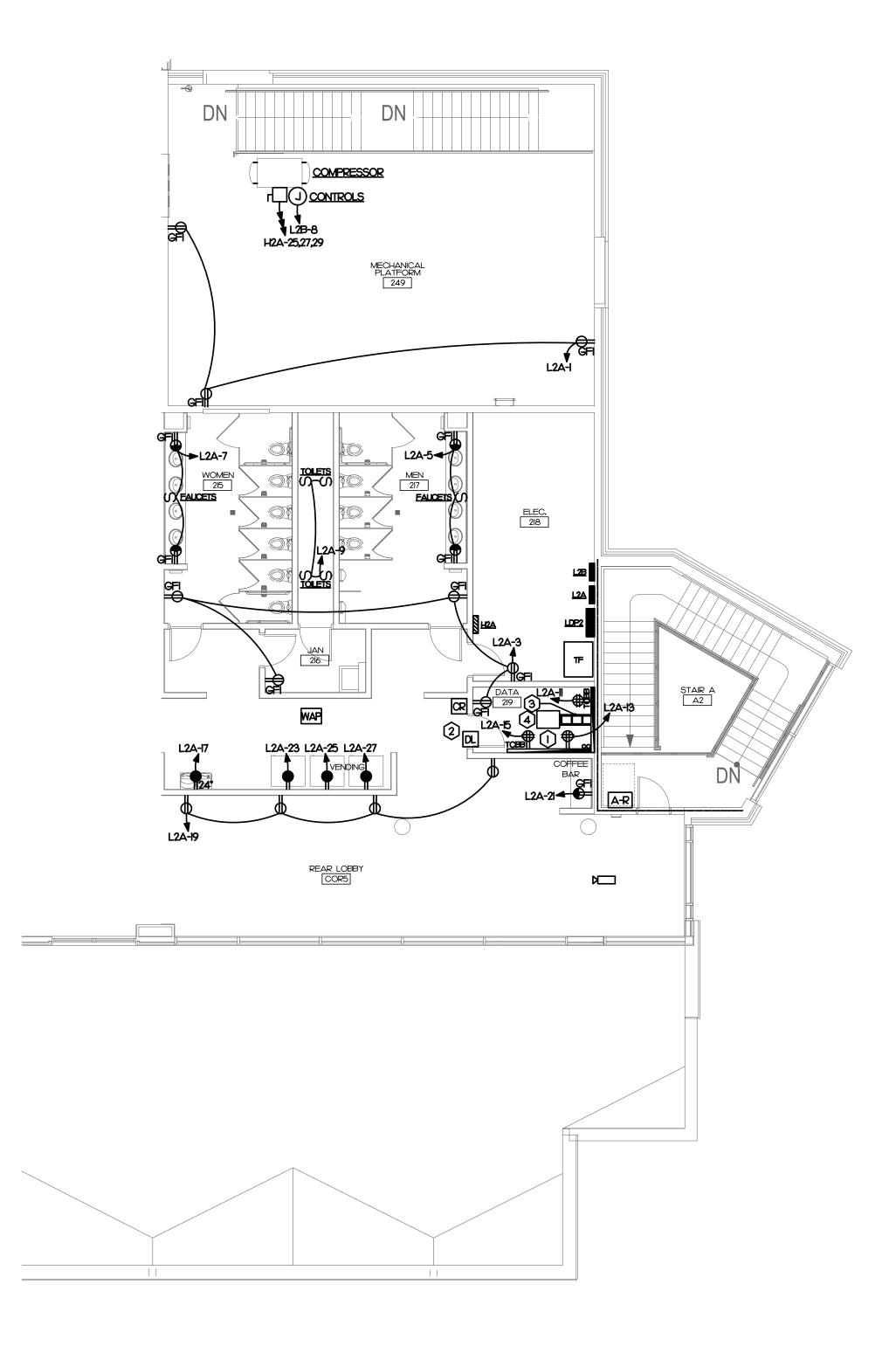
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	I HOUR FIRE BAR	RER				

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KEY NOTES PRIMARY SECOND FLOOR COMMUNICATION BACKBOARD:
 INSTALL RECEPTACLES ON BACKBOARD TO ACCOMMODATE EQUIPMENT.
 PROVIDE GROUND BAR WITH 1-#6G CU IN 1/2" CONDUIT TO PANEL.
 SEE A9/E4.1 FOR DETAILS.

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2 SECURED SINGLE DOOR. SEE MI8/E5.3 FOR DETAILS.

(3) 12" LADDER TYPE CABLE TRAY AT 84" A.F.F. (4) 19" FREESTANDING COMMUNICATION RACK. SEE A9/E4.1 FOR DETIALS.

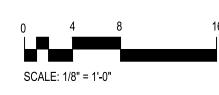
NOTES:

- INSTALL CONNECTIONS FOR ELECTRIFIED PLUMBING FIXTURES IN CONCEALED BUT ACCESSIBLE LOCATIONS. FIELD VERIFY EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
 E.C. SHALL PROVIDE ALL LOW VOLTAGE CABLE AND CONTROL WIRING NOTED AND/OR IMPLIED BY THIS PLAN. SEE SYMBOL LEGEND FOR ADDITIONAL DETAILS.
 E.C. TO FIELD COORDINATE THE INSTALLATION OF SECURITY DEVICES WITH OWNER AND ARCHITECT PRIOR TO ROUGH-IN.
 REFER TO ARCHITECT'S PLANS FOR FINAL LOCATIONS OF ALL EQUIPMENT. DO NOT DIMENSION THESE PLANS. SEE ARCHITECT'S PLANS FOR STANDARD MOUNTING HEIGHTS.
 E.C. TO PROVIDE FUSES PER MANUFACTURER NAMEPLATE DATA.

17

Ν ____ SECOND FLOOR POWER PLAN - EAST

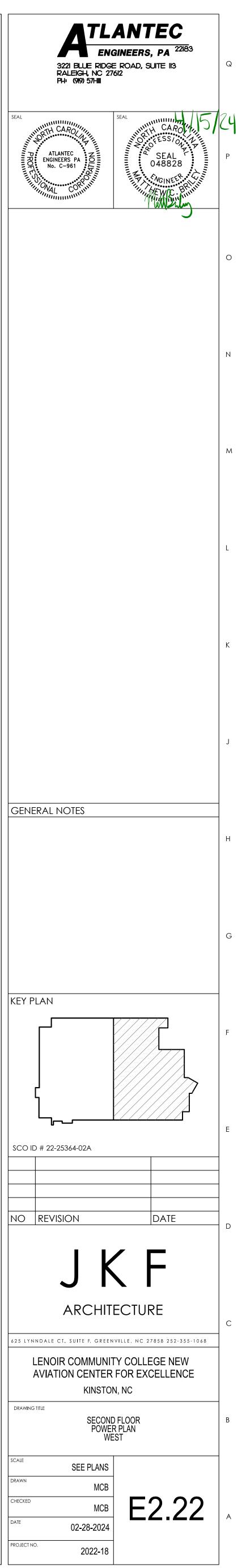
18

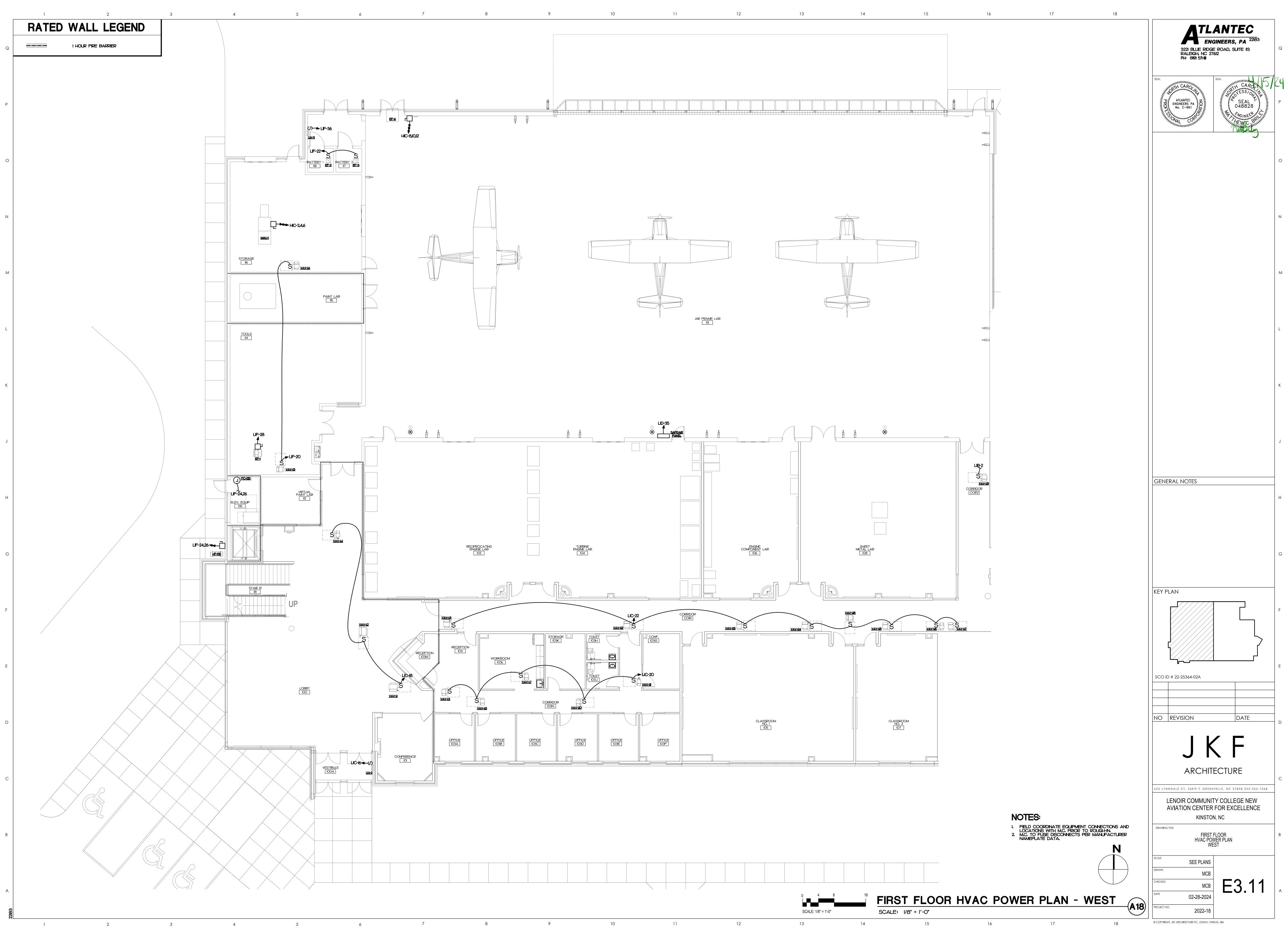


14

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16

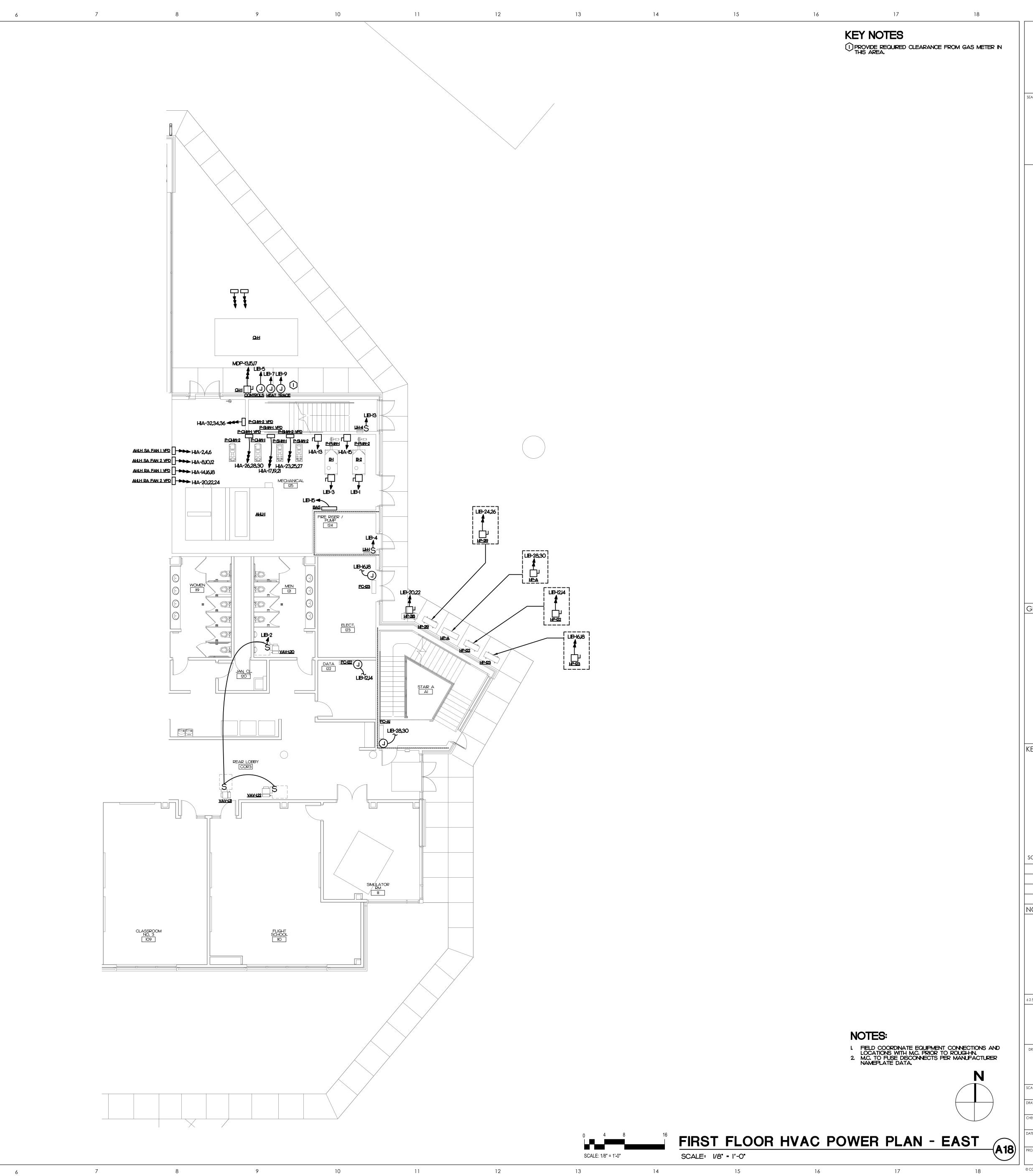


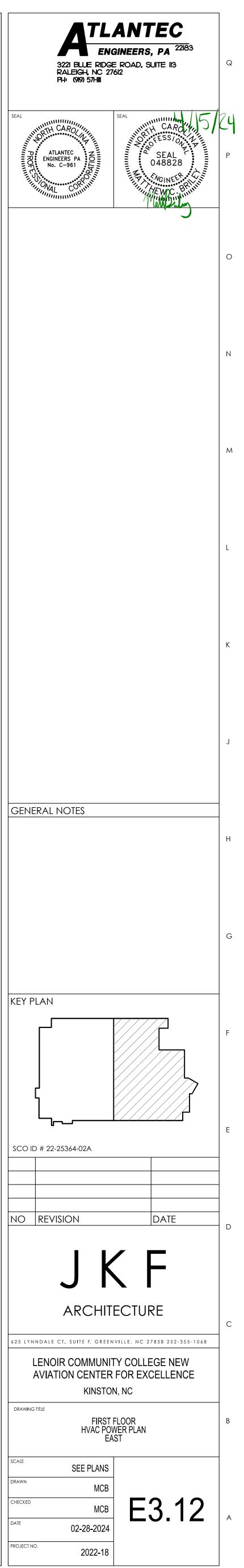


RAT	ED WALL L		3	4	5	
	I HOUR FIRE BAR	RER				

2 3 4 5

1





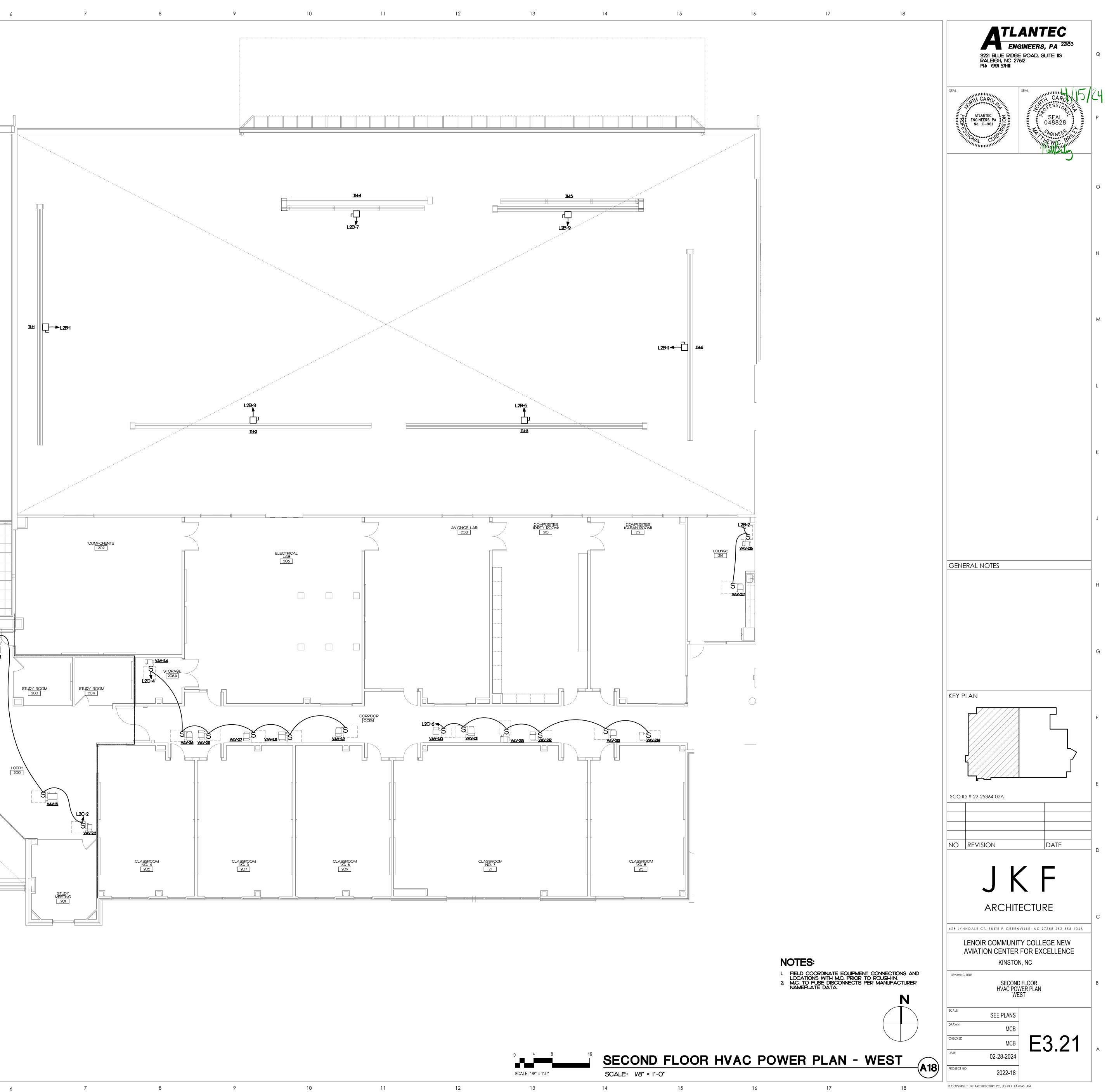
3 2 4 5 6 1 RATED WALL LEGEND I HOUR FIRE BARRIER $\bigcirc >$ <u>VAV-22</u> - DN STAIR B B2 LOBBY 200 D В Α

2

1

4

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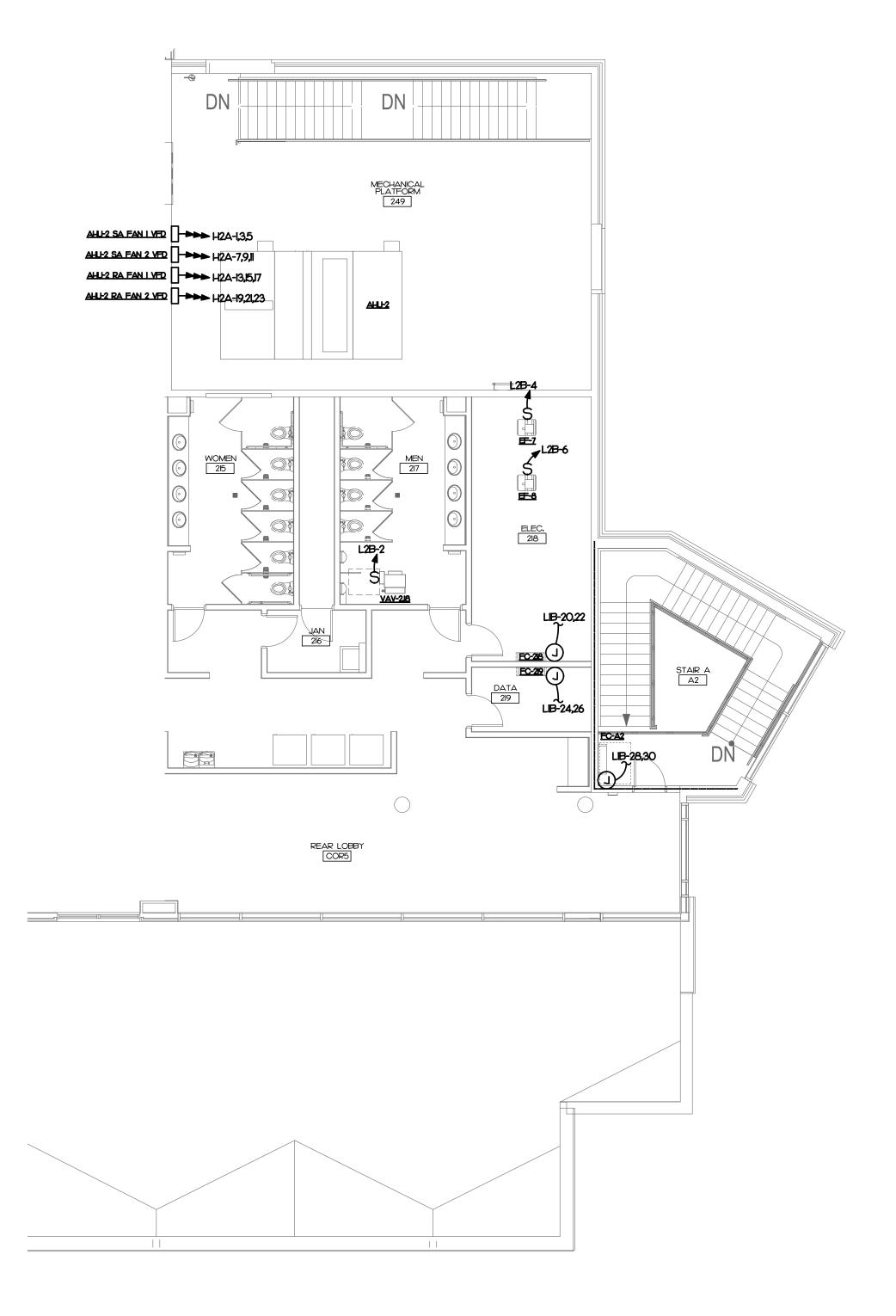
13

15 16

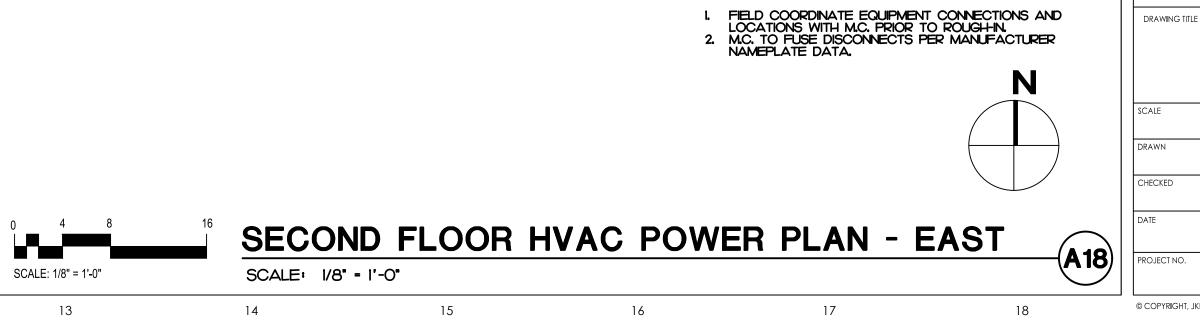
[©] COPYRIGHT, JKF ARCHITECTURE PC, JOHN K. FARKAS, AIA

RAT	ED WALL L		3	4	5	
	I HOUR FIRE BAR	RER				

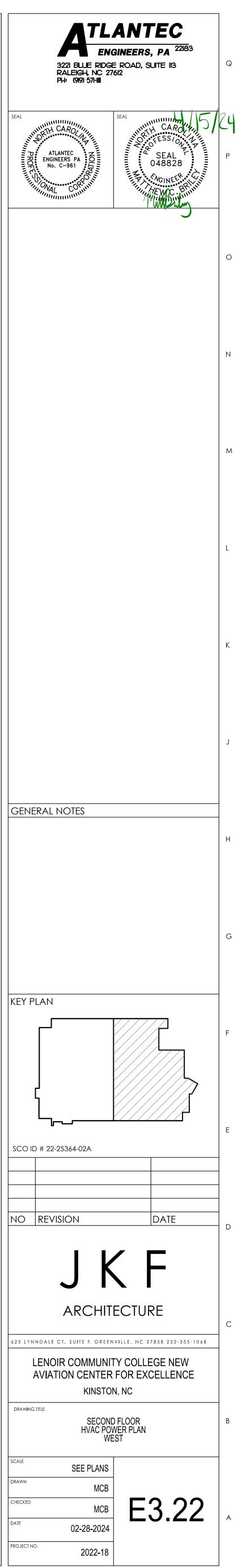
2 3 4

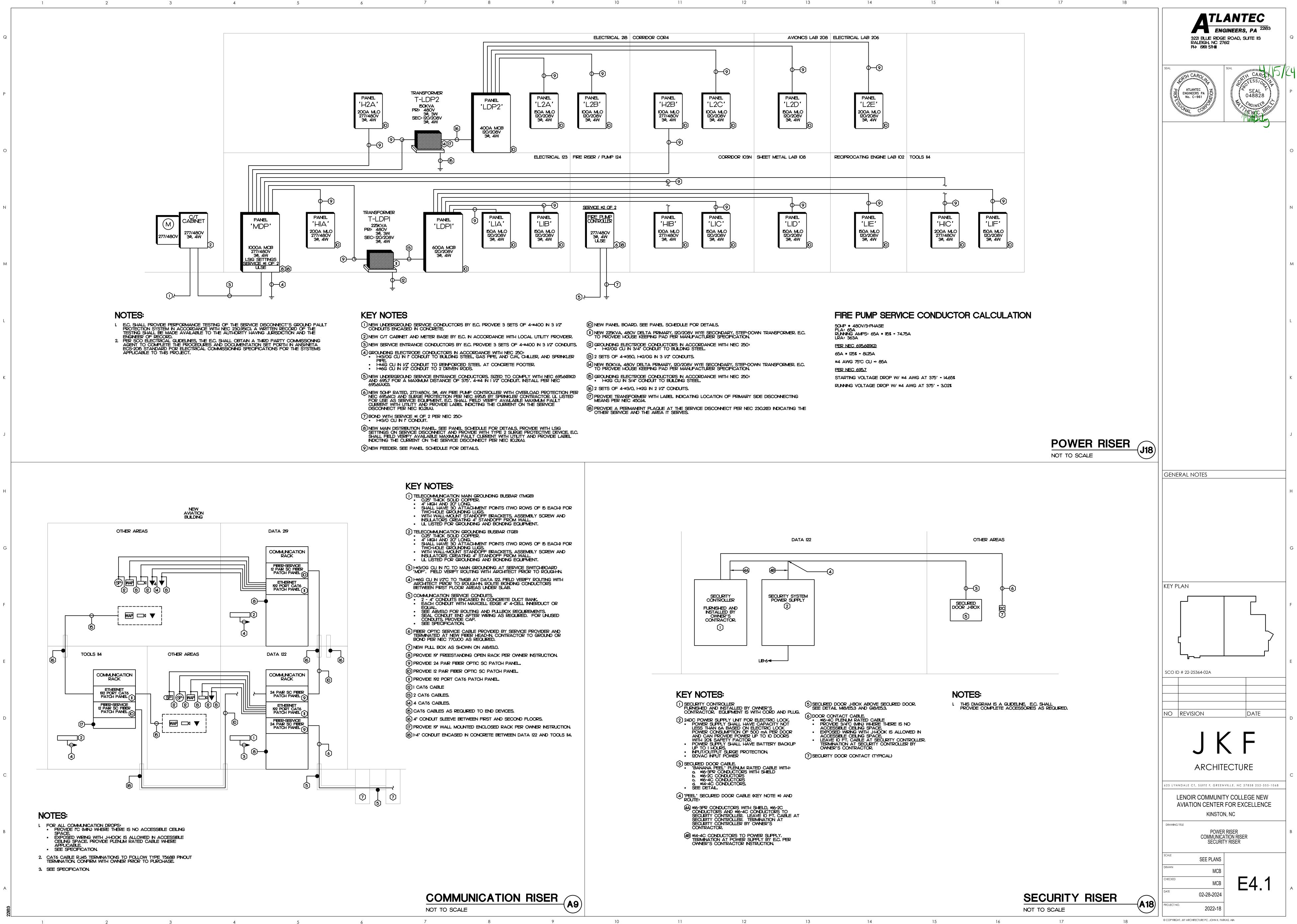


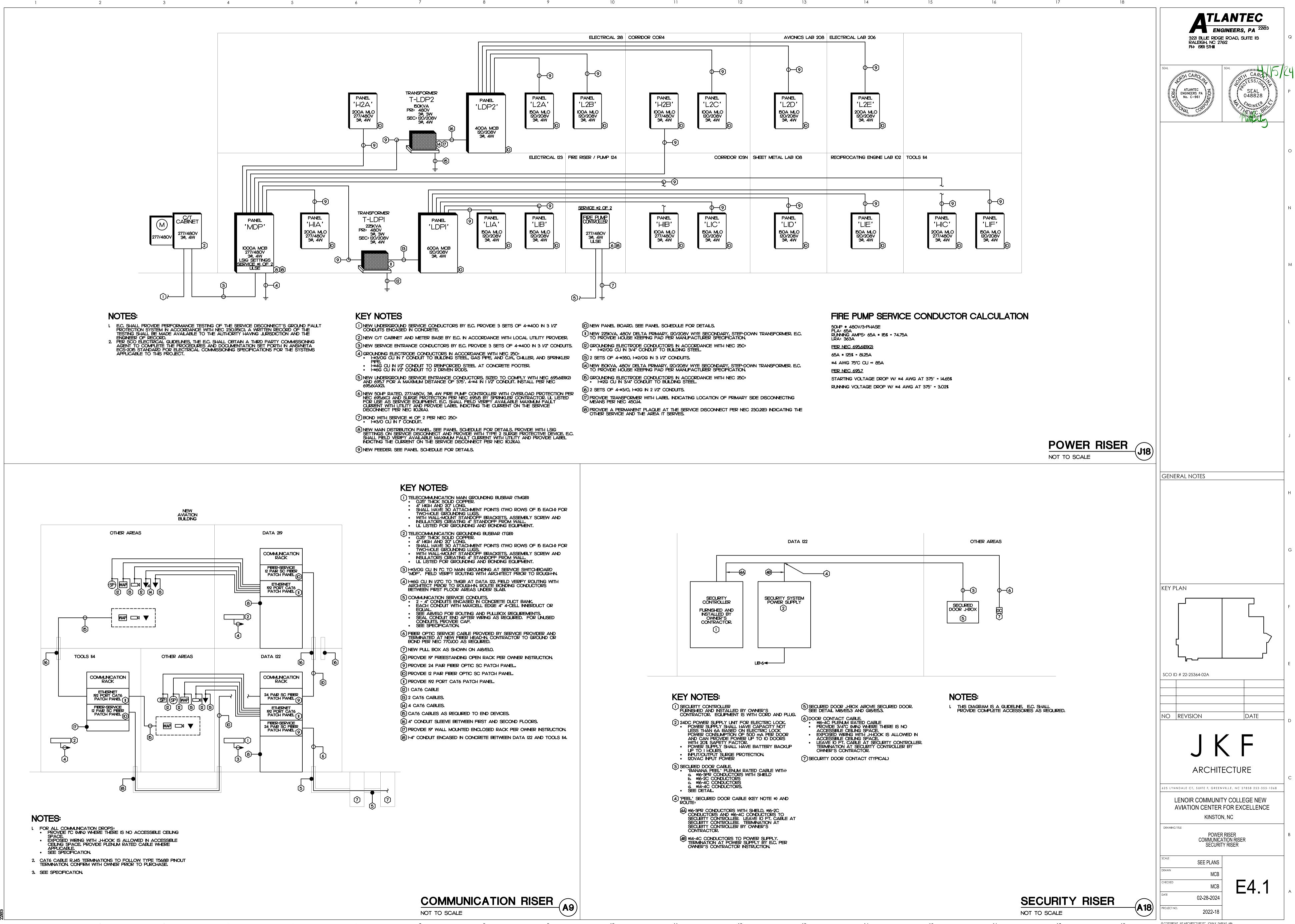
7 8 9



NOTES:







L MDP		OV, 3 PHASE, 4 WIRE PANEL	HIA			i i	DV, 3 PHASE, 4 W
DESCRIPTION DPI	54.2 3 4 350 300 1 2 200 3/0 6 2 27.4	DESCRIPTION CKT CKT HIA 2 I LTS 119-125		C G W CB CKT 1/2 12 12 20 1	OKT OB W G C 2 25 10 10 3/4	3.5	DESCRIPTION AHUH SA FAN I
	51.8 350 3P 3 4 3P 3/0 27.2 44.0 350 5 6 3/0 27.2	4 3 LTS 109-11 6 5 PENDANT	LT COR3 0.2	1/2 12 12 20 3 1/2 12 12 20 5	4 3P 10 6 10	3.5	
NOTE S	35.6 2 6 3/O 200 7 8 IOO 3 8 I I/4 5.5 34.5 3/O 3P 9 IO 3P 3 3.6	HIB 8 7 JOCKEY F	PUMP CONTROLLER 0.6	1/2 12 12 15 7 12 3P 9	8 25 10 10 3/4 10 3P 10		AHUH SA FAN 2
l	35.5 3/0 II I2 3 2.2 72.0 4 3 500 350 13 14 200 3/0 6 2 21.3	12 II HIC 14 13 P-PHW-I	0.6 4	12 II 1/2 12 12 20 13	12 10 14 15 12 12 1/2	3.5	AHUH RA FAN I
	72.0 500 3P 15 16 3P 3/0 21.4	16 15 P-PHW-2	14 14 21	1/2 12 12 20 15	16 3P 12	1.9	
CE ONLY	72.0 500 17 18 3/0 22.6 0.0 19 20 200 3/0 6 2 21.1	18 17 P-SHW-1 H2A 20 19	21	1/2 12 12 20 17 12 3P 19	18 12 20 15 12 12 1/2		AHUH RA FAN 2
	<u>0.0</u> 21 22 3P 3/0 21 <u>0.0</u> 23 24 3/0 21.9	22 21 24 23 P-SHW-2	21 21	12 21 1/2 12 12 20 23	22 3P 12 24 12		
CE ONLY	O.O 25 26 IOO 3 8 I I/4 5.5 O.O 27 28 3P 3 5J	H2B 26 25 28 27	<u>21</u>	12 3P 25 12 27	26 20 12 12 1/2 28 3P 12		P-CHW-I
CE ONLY	O.O 29 30 3 5.0 O.O 31 32 5.0	30 29 HMLS FAN	l 113 0.9 0.9	1/2 12 12 20 29 12 3P 31	<u>30</u> 12 32 20 12 12 1/2	3.0	P-CHW-2
	0.0 33 34 0.0	34 33	0.9	12 33	34 3P 12	3.0	F-CHW-2
CE FOR MAIN BREAKER	O.O 35 36 O.O NOTE 2 1000 37 38 O.O NOTE 4	36 35 HMLS FAN SPACE FOR SPD 38 37	1 II3 0.9 0.9	1/2 12 12 20 35 12 3P 37	<u>36</u> 12 <u>38</u>	0.0	SPACE ONLY
	NOTE 2 3P 39 40 O.O NOTE 2 O.O	40 39 42 41 HMLS FAN	0.9 1 II3 0.9	<u></u> <u></u> <u>12</u> <u></u> <u>39</u> <u>1/2</u> <u>12</u> <u>12</u> <u>20</u> <u>41</u>	<u>40</u> <u>42</u>	0.0	SPACE ONLY SPACE ONLY
ION CONNECTED DEMAND	DEMAND 1000 A MINIMUM BUS SIZE SURFACE MOUNTING	<u>43</u> 45	0.9	12 3P 43 12 45	44 46	0.0	SPACE ONLY SPACE ONLY
KVA FACTOR 0AD 36.36 125%	KVA1000 A MAIN CIRCUIT BREAKERNEMA I ENCLOSURE45.4535 K MINIMUM AIC RATINGGROUND BAR	47 SPACE OI 49 SPARE	NLY 0.0 0.0	<u></u> <u></u> <u></u> <u>47</u> <u></u> <u></u> <u>20</u> <u>49</u>	<u>48</u> 50 20	0.0	SPACE ONLY SPARE
CLE 96.48 100%/50%	53.24 UL LISTED FOR USE A	AS SERVICE EQUIPMENT 51 SPARE	0.0	20 51	52 20	0.0	SPARE
OLS 463,62 100% 11,80 100%	463.62 ILBO	53 SPARE	0.0	20 53 	54 20		SPARE
EATER 0.25 IOO% NT 98.86 IOO%	<u>0.25</u> NOTES <u>98.86</u> I. SEE SPECIFICATIONS	CONNECTED LOADS DESCRIPTION PHASE A: 242.7 KVA	CONNECTED DEMAND DEMAN KVA FACTOR KVA	D 200 A MINIMUM BUS SI MAIN LUGS ONLY	ZE	SURFACE MOUNTING NEMA I ENCLOSURE	
EQUIP. 0.00 65% EQ. 0.00 100%	0.00 2. SEE BELOW FOR MAIN BREAKER LOAD INFORMATION. 0.00 3. E.C. TO PROVIDE WITH LOCK-OFF PROVISION.	PHASE B: 236.8 KVA CONT. LOAD PHASE C: 227.9 KVA RECEPTACLE	2.98 125% 3.72 0.00 100%/50% 0.00	35 K MINIMUM AIC RAT	ĩNG	GROUND BAR	
ARGEST HVAC/MOTOR	17.97 4. 240KA SURGE PROTECTION (L-L, L-G, L-N, N-G) WITH SURGE COUNTER. 691,19 5.	TOTALI 707.4 KVA MTRS/COOLS DEMAND 831 AMP HEATS	76.31 IOO% 76.31 0.00 IOO% 0.00	_			
	U7h17 [-5	WATER HEATER	R 0.00 100% 0.00	NOTES			CONNECTED LOADS
		Equipment Kitchen Equip		2.			PHASE A: 27.4 PHASE B: 27.2
		SPECIAL EQ. 25% OF LARGE	0.00 100% 0.00 ST HVAC/MOTOR 2.60	3.			PHASE C: 24.7 TOTAL: 79.3
		TOTAL DEMAN					DEMAND 99
. HIC	977/49	OV, 3 PHASE, 4 WIRE PANEL	LDPI			120/20	8V, 3 PHASE, 4 V
DESCRIPTION		DESCRIPTION CKT CKT	DESCRIPTION KVA	C G W CB CKT	CKT CB W G C	- i	DESCRIPTION
PIT LTS	0.0 1/2 12 12 20 1 2 20 12 12 1/2 1.2	MAUH 2 I LIA	10.3	2 6 1/0 150 I	2	0.0	SPACE ONLY
35 212-218	OJ 1/2 12 12 20 3 4 3P 12 L2 L3 1/2 12 12 20 5 6 12 L2	4 <u>3</u> 6 5	IO.2 5.8	VO 3P 3 VO 5	<u>4</u> <u>6</u>	0.0	SPACE ONLY SPACE ONLY
FAN 113	0.9 1/2 12 12 20 7 8 20 12 12 1/2 0.9 0.9 12 3P 9 10 3P 12 0.9	EF-6 8 7 LB 10 9	11.2	2 6 1/0 150 7 1/0 3P 9	8		SPACE ONLY SPACE ONLY
	0.9 12 11 12 12 0.9	12 11	12.2	I/O II	12	0.0	SPACE ONLY
FAN 113	O.9 I/2 I2 I2 20 I3 I4 40 8 IO 3/4 8.9 O.9 I2 3P I5 I6 3P 8 8.9	AIR FRAME LAB DOOR 14 13 LIC 16 15	<u>8.0</u> <u>8.6</u>	2 6 1/0 150 13 1/0 3P 15	14 16	0.0	SPACE ONLY SPACE ONLY
FAN 113	0.9 12 17 18 8 8.9 0.9 1/2 12 12 20 19 20 40 8 10 3/4 7.5 NOTE 2	I8 I7 ELEVATOR 20 19 LID	65 84	VO 17 2 6 VO 150 19	18 20	0.0	SPACE ONLY SPACE ONLY
	O.9 12 3P 21 22 3P 8 7.5 O.9 12 23 24 8 7.5	22 21 24 23	3.4 7.7	VO 3P 21 VO 23	22 24	0.0	SPACE ONLY SPACE ONLY
	0.0 25 26 0.0	SPACE FOR SHUNT TRIP 26 25 LIE	4.4	2 6 I/O 150 25	26	0.0	SPACE ONLY
CEONLY CEONLY	O.O 27 28 O.O O.O 29 30 O.O	SPACE ONLY 28 27 SPACE ONLY 30 29	4.2 2.9	VO 3P 27 VO 29	28 30	0.0	SPACE ONLY SPACE ONLY
CE ONLY CE ONLY	O.O 31 32 O.O O.O 33 34 O.O	SPACE ONLY3231LIFSPACE ONLY3433	12.0 12.9	2 6 1/0 150 31 1/0 3P 33	<u>32</u> 34	0.0	SPACE ONLY SPACE ONLY
CE ONLY RE	0.0 35 36 0.0	SPACE ONLY 36 35 SPARE 38 37 SPACE ONLY	8.9	VO 35 37	<u>36</u> 38	0.0	SPACE ONLY SPACE ONLY SPACE ONLY
æ	0.0 39 40 0.0	SPARE 40 39 SPACE O	NLY 0.0	39	40	0.0	SPACE ONLY
RE	O.O 41 42 O.O DEMAND 225 A MINIMUM BUS SIZE FLUSH MOUNTING	SPARE 42 			<u> 42 </u>		SPACE ONLY
ION CONNECTED DEMAND KVA FACTOR AD 1.40 125%	DEMAND225 A MINIMUM BUS SIZEFLUSH MOUNTINGKVAMAIN LUGS ONLYNEMA I ENCLOSUREL7518 K MINIMUM AIC RATINGGROUND BAR	CONT. LOAD	CONNECTED DEMAND DEMAN KVA FACTOR KVA 1.70 125% 2.13	D 600 A MINIMUM BUS S 600 A MAIN CIRCUIT B 22 K MINIMUM AIC RAT	REAKER	SURFACE MOUNTING NEMA I ENCLOSURE GROUND BAR	
CLE 0.00 100%/50% OLS 63.90 100%		RECEPTACLE MTRS/COOLS	51.66 IOO\$/50\$ 30.83 39.53 IOO\$ 39.53				
0.00 100% EATER 0.00 100%	0.00 NOTES	CONNECTED LOADS WATER HEATE	11.80 100% 11.80				CONNECTED LOADS
1000 X	0.00 I. SEE SPECIFICATIONS	PHASE A: 21.3 KVA EQUIPMENT	45.08 100% 45.08	I. SEE SPECIFICATIONS			PHASE A: 54.2
EQUIP. 0.00 65% EQ. 0.00 100%	0.00 2. E.C. TO PROVIDE SHUNT TRIP BREAKER. 0.00 3.	PHASE B: 21.4 KVA KITCHEN EQUIP PHASE C: 22.6 KVA SPECIAL EQ.	0.00 65% 0.00 0.00 100% 0.00				PHASE B: 51.8 PHASE C: 44
ARGEST HVAC/MOTOR	<u>8.31</u> 4. 73.97 5.	TOTAL: 65.3 KVA 25% OF LARGE DEMAND 89 AMP TOTAL DEMAN	ST HVAC/MOTOR 0.00 D 129.62				TOTAL: 50 DEMAND 360
. L1B			L1C			120/20	8V, 3 PHASE, 4 W
DESCRIPTION R B-1	0.7 1/2 12 12 20 1 2 20 12 12 1/2 0.2	DESCRIPTION CKT CKT I REC CORI VAV-LI9 THRU L22 2 I REC CORI		C G W CB CKT 3/4 10 10 20 1	CKT CB W G C 2 20 12 12 1/2 4 20 12 12 1/2	0.5	DESCRIPTION E REC 105
R B-2 ER CONTROLS		UH1 124 4 3 DOOR OP ECURITY POWER SUPPLY 6 5 DOOR OP	ERATOR 100A LO	1/2 12 12 20 3 1/2 12 12 20 5	4 20 12 12 1/2 6 20 12 12 1/2	0.5	N REC 105
EL HEAT TRACE NOTE 2,3 HEAT TRACE NOTE 2,3		HOTBOX HEATER 8 7 FLOOR RE HOTBOX HEATER 10 9 REC 100	<u>EC 100 0.7</u> 0.4	3/4 IO IO 2O 7 3/4 IO IO 2O 9	8 20 12 12 1/2 10 20 12 12 1/2		<u>S REC 105</u> SW REC 107
ET ROUTER	0.5 1/2 12 12 20 11 12 25 10 10 3/4 2.0 1.5 1/2 12 12 20 13 14 2P 10 2.0	HP-122, FC-122 12 II TV REC 10 14 13 REC 101		V/2 I2 I2 20 I V/2 I2 I2 20 I V/2 I2 I2 20 I	10 10 12 12 12 12 20 12 12 12 12 14 20 12 12 12 12	05	N REC 107 E REC 107
25 F CNLX	I.O 1/2 12 12 20 15 16 25 10 10 3/4 2.O	HP-123, FC-123 16 15 REC 103	0.5	1/2 12 12 20 15	16 20 12 12 1/2	15	UH-2 100A
E ONLY E ONLY	O.O I7 I8 2P IO 2.0 O.O I9 20 25 IO IO 3/4 2.0	18 17 REC 103A HP-218, FC-218 20 19 REC 103B	0.7	1/2 12 12 20 17 1/2 12 12 20 19	18 20 12 12 1/2 20 20 12 12 1/2	0.2	VAV-1,1,1,2,1,4 VAV-1,3,1,7,1,8,1,10,1.1
E ONLY E ONLY	O.0 21 22 2P 10 2.0 O.0 23 24 25 10 10 3/4 2.0	22 21 REC 103C	0.7 0.7	1/2 12 12 20 21 1/2 12 12 20 23	22 20 12 12 1/2 24 20 10 10 1	0.3 0.5	VAV-1.9,1.12-1.18 SITE SIGN
E ONLY E ONLY E ONLY	OLO 25 24 25 10 10 374 220 O.O 25 26 2P 10 2.0 O.O 27 28 40 8 10 3/4 2.4	26 25 REC 103E HP-A, FC-A 28 27 REC 103F	0.7	V2 12 12 10 13 V2 12 12 20 25 V2 12 12 20 27	26 20 10 10 1 26 20 10 10 1 28	0.5	SITE SIGN SPACE ONLY
EONLY	<u> </u>	30 29 REC 103G	0.9	1/2 12 12 20 29	30	0.0	SPACE ONLY
E ONLY E ONLY	O.O 31 32 O.O O.O 33 34 O.O	SPACE ONLY 34 33 REC 103L	JMB FIXT 103H,103J 0.5 0.7	1/2 12 12 20 31 1/2 12 12 20 33	<u>32</u> <u>34</u>	0.0	SPACE ONLY SPACE ONLY
E ONLY E	O.O 35 36 O.O O.O 20 37 38 20 O.O	SPACE ONLY3635CTR TOPSPARE3837CTR TOP		1/2 12 12 20 35 1/2 12 12 20 37	36 38	0.0 0.0	SPACE ONLY SPACE ONLY
	OLO 20 39 40 20 OLO 0.0 20 39 40 20 0.0 0.0 20 41 42 20 0.0	SPARE 40 39 REF 103L SPARE 42 41 REC 103M	NOTE 2 LO	V2 I2 I2 20 39 V2 I2 I2 20 39 V2 I2 I2 20 41	<u>40</u> <u>42</u>	0.0	SPACE ONLY SPACE ONLY
		43 REC 103K	103N 0.9	1/2 12 12 20 43	44	0.0	SPACE ONLY
ON CONNECTED DEMAND KVA FACTOR	KVA MAIN LUGS ONLY NEMA I ENCLOSURE	45 NAC PAN 47 SPARE	0.0	1/2 12 12 20 45 20 47 20 49	46 48 20	0.0	SPACE ONLY SPARE
AD 0.00 125% ALE 0.00 100%/50%		49 SPARE 51 SPARE 52 SPARE	0.0	20 51	52 20	0.0	SPARE SPARE
DLS 20.59 IOO% 8.80 IOO%	20.59 8.80 0.00 NOTES	CONNECTED LOADS DESCRIPTION	CONNECTED DEMAND DEMAN	D 200 A MINIMUM BUS SI		O.O SURFACE MOUNTING	SPARE
	6.50 I. SEE SPECIFICATIONS	PHASE A: IL2 KVA	KVA FACTOR KVA	MAIN LUGS ONLY		NEMA I ENCLOSURE	
EATER 0.00 100% T 6.50 100%	0.00 2. E.C. TO PROVIDE GFPE BREAKER. 0.00 3. E.C. TO PROVIDE LOCK-OFF PROVISION.	PHASE B: 125 KVA CONT. LOAD PHASE C: 122 KVA RECEPTACLE	IOO 125% I.25 16.38 100%/50% 13.19		ING .	GROUND BAR	
T 6.50 IOO% GUIP. 0.00 65% G. 0.00 IOO%		TOTAL: 35.9 KVA MTRS/COOLS	0.00 100% 0.00				
T 6.50 IOO% GUIP. 0.00 65%	<u> </u>	DEMAND IOO AMP HEATS	1.50 100% 1.50				
T 6.50 IOO% QUIP. 0.00 65% Q. 0.00 IOO% RGEST HVAC/MOTOR		DEMAND 100 AMP HEATS WATER HEATE	R 0.00 100% 0.00	NOTES			CONNECTED LOADS
6.50 IOO% QUIP. 0.00 65% Q. 0.00 IOO% RGEST HVAC/MOTOR		DEMAND 100 AMP HEATS	R 0.00 100% 0.00 4.24 100% 4.24	L SEE SPECIFICATIONS			CONNECTED LOADS PHASE A: 8 PHASE B: 86 PHASE C: 65

	, 3 PHASE, 4 WIF
	SCRIPTION CI
	AHUH SA FAN 2 (
	AHUH RA FAN I
	AHUH RA FAN 2 2
	2
	P-CHW- 2 2 3
	3 P-CHW-2_3
	3
	SPACE ONLY 3 SPACE ONLY 4
	SPACE ONLY A
	SPACE ONLY
	SPACE ONLY SPARE
	SPARE ! SPARE !
No. Protected No. Prot	ONNECTED LOADS HASE A: 27.4 K HASE B: 27.2 K HASE C: 24.7 K DTAL: 79.3 K EMAND 99 A
	, 3 PHASE, 4 WI
International matrix O If S D S D S D S D S D S D S D S D S D S D S D	SCRIPTION CI SPACE ONLY SPACE ONLY
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eff COO C	ONNECTED LOADS
L ED DOI: 000 DOI	4ASE A: 54.2 K 4ASE B: 51.8 K
DEMAND TANT DEMAND PAAP TOTAL DEMAND PAAP PAAP TOTAL DEMAND PAAP TOTAL DEMAND PAAP TOTAL DEMAND PAAP	HASE C: 44 K
DESCRPTION KVA C 6 M CB CXT OXT OXT <th>EMAND 360 A</th>	EMAND 360 A
Same Harman Nore 23 9 1 0	, 3 PHASE, 4 WI
PE HEAT TRACE NOTE 23 IP I NO	W REC 105 S REC 105
4 15 12 2 2 0 1 2 0 1 2 0 1 2 0 1 0 1 0 1 <th1< th=""> <th1< th=""> <th1< th=""></th1<></th1<></th1<>	SW REC 107 N REC 107
ACE O.Y O.O - </td <td>E REC 107</td>	E REC 107
AGE ON Y OO - - - 2 ZZ 2 <th2< th=""> <th2<< td=""><td>VAV-1.3,17,1.8,1.10,1.11</td></th2<<></th2<>	VAV-1.3,17,1.8,1.10,1.11
AGE ONLY OO - - - - 20 ////////////////////////////////////	VAV-1.3,17,18,110,111 VAV-1.9,1.12-1.18 SITE SIGN
ACC ONLY OO - - - - 2 20 27 8 - 2.4 300 ACE ONLY OO - - - 23 2 - 0.0 SPACE ONLY 30 - - - - 0.0 SPACE ONLY 30 30 - - - - 0.0 SPACE ONLY 30 0.0 100	SITE SIGN
AACE ONY O.0 - - - - 0.0 SPACE ONY 34 - - - 0.0 SPACE ONY 34 VACE ONY 0.0 - 0.0 - - - - - - - 0.0 - - - - - - - 0.0 - - - - - 0.0 - - - - - - 0.0 - - - - 0.0 - - - - 0.0 - - - 0.0 - - - 0.0 - - - 0.0 - - - 0.0 - - - 0.0 - - - 0.0 - - - 0.0 - - -	SPACE ONLY SPACE ONLY
AGE ONY OU -<	SPACE ONLY SPACE ONLY
PARE Q0 - - 20 39 40 20 - - 0.0 SPARE 0.0 0.0 SPARE 0.0 0.0 0.0 SPARE 0.0 0.0 SPARE 0.0 0.0 0.0 SPARE 0.0 0.0 0.0 SPARE 0.0	SPACE ONLY SPACE ONLY
Normalize Substant Substant <t< td=""><td>SPACE ONLY SPACE ONLY</td></t<>	SPACE ONLY SPACE ONLY
KVA FACTOR KVA <td>SPACE ONLY SPACE ONLY</td>	SPACE ONLY SPACE ONLY
Since State	SPACE UNLI SPARE SPARE
8.80 100% 8.80 HEATER 0.00 100% 0.00 NOTES CONNECTED LOADS ENT 6.50 100% 6.50 1. SEE SPECIFICATIONS DIASE A: 112 KVA N EQUIP. 0.00 65% 0.000 3. EC. TO PROVIDE GFPE BREAKER. PHASE A: 12.5 KVA LEQ. 0.00 100% 0.00 3. EC. TO PROVIDE LOCK-OFF PROVISION. PHASE C: 12.2 KVA LARGEST HVAC/MOTOR 0.00 4. FACTOR KVA FACTOR KVA FACTOR KVA DEMAND 5. 0.000 3. EC. TO PROVIDE LOCK-OFF PROVISION. PHASE C: 12.2 KVA RECEPTACLE 16.38 100%/50% 13.19 LARGEST HVAC/MOTOR 4. DEMAND DEMAND DEMAND 100 AMP 150 150 100% 150	SPARE
ENT 650 100% 650 I. SEE SPECIFICATIONS PHASE A: II.2 KVA N EQUIP. 0.00 65% 0.00 2. EC. TO PROVIDE GFPE BREAKER. PHASE A: II.2 KVA L EQ. 0.00 100% 0.00 3. EC. TO PROVIDE LOCK-OFF PROVISION. PHASE A: II.2 KVA LARGEST HVAC/MOTOR 0.00 3. EC. TO PROVIDE LOCK-OFF PROVISION. PHASE C: I2.2 KVA DEMAND 5. 0.00 100% 0.00 100% 0.00	SPARE
L EQ. 0.00 100% 0.00 3. EC. TO PROVIDE LOCK-OFF PROVISION. PHASE C: 122 KVA L ARGEST HVAC/MOTOR 0.00 4. TOTAL: 35.9 KVA DEMAND 0.00 AMP FASE C: 100 AMP	
LARGEST HVAC/MOTOR 0.00 4. DEMAND 35.9 5.	
	ONNECTED LOADS

ANEL MDP	277/480V, 3 PHASE, 4 WIRE	PANEL HIA		277/480V, 3 PHASE, 4 WI
T-LDPI 54.2 3 4 350 300 1	CKT CB W G C KVA DESCRIPTION CKT 2 200 3/0 6 2 27.4 HIA 2	OKT DESCRIPTION I LTS 119-125	<u>15 1/2 12 12 20 1 2 25 10 10</u>	C KVA DESCRIPTION C 3/4 3.5 AHUH SA FAN I C
51.8 350 3P 3 44.0 350 5	4 3P 3/0 27.2 4 6 3/0 24.7 6	3 LTS 109-111 5 PENDANT LT COR3	0.2 1/2 12 12 20 5 6 10	<u>3.5</u> <u>3.5</u>
HDP2 NOTE 3 35.6 2 6 3/0 200 7 34.5 3/0 3P 9	8 100 3 8 1 1/4 5.5 HIB 8 10 3P 3 3.6 10	7 JOCKEY PUMP CONTROLLER		<u>3/4 3.5</u> AHUH SA FAN 2 <u>3.5</u>
35.5 3/0 II 72.0 4 3 500 350 13	12 3 -2.2 12 14 200 3/0 6 2 21.3 HIC 14	 3 P-PHW-1	O.6 I2 II I2 IO I.4 I/2 I2 I2 20 I3 I4 I5 I2 I2	3.5 1/2 1.9 AHUH RA FAN I
72.0 500 3P 15 72.0 500 17	16 3P 3/O 21.4 16 18 3/O 22.6 18	15 P-PHW-2 17 P-SHW-1	I.4 I/2 I2 I2 20 15 I6 3P I2 2.1 I/2 I2 I2 20 I7 I8 I2	l.9 l.9
PACE ONLY 0.0 19 0.0 21	20 200 3/0 6 2 21.1 H2A 20 22 3P 3/0 21.1 22	19 21	<u>21</u> 12 21 <u>22</u> 3P 12	1/2 1.9 AHUH RA FAN 2 1.9
0.0 23 PACE ONLY 0.0 25	24 3/0 21.9 24 26 100 3 8 1 1/4 5.5 H2B 26	23 P-SHW-2 25	21 1/2 12 12 20 23 24 12 21 12 3P 25 26 20 12 12	I.9 1/2 3.0 P-CHW-1
0.0 27 0.0 29	28 3P 3 5J 28 28 30 3 5.0 30 </td <td>27 29 HMLS FAN 113</td> <td>21 12 27 28 3P 12 0.9 1/2 12 12 20 29 30 12 </td> <td> 3.0 3.0</td>	27 29 HMLS FAN 113	21 12 27 28 3P 12 0.9 1/2 12 12 20 29 30 12	3.0 3.0
PACE ONLY 0.0 31 0.0 33	32 O.O SPACE ONLY 32 34 O.O 34 34	3I 33		<u>V2 3.0</u> P-CHW-2 3.0
O.O 35 PACE FOR MAIN BREAKER NOTE 2 1000 37	36 0.0 36 38 0.0 NOTE 4 SPACE FOR SPD 38	35 HMLS FAN 113 37	O.9 I/2 I2 I2 20 35 36 I2 O.9 I2 3P 37 38 <td< td=""><td> 3.0 0.0 SPACE ONLY</td></td<>	3.0 0.0 SPACE ONLY
NOTE 2 3P 39 NOTE 2 4I	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	39 41 HVLS FAN 113	O.9 12 O.7 39 O.9 I/2 I2 I2 O.9 I/2 I2 I2 <t< td=""><td> 0.0 SPACE ONLY 0.0 SPACE ONLY</td></t<>	0.0 SPACE ONLY 0.0 SPACE ONLY
RIPTION CONNECTED DEMAND DEMAND 1000 A MINIMUM BUS SIZE		43	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	0.0 SPACE ONLY
KVA FACTOR KVA 1000 A MAIN CIRCUIT BR	REAKER NEMA I ENCLOSURE	47 SPACE ONLY 49 SPARE	O.9 - - 12 - 145 146 -<	0.0 SPACE ONLY 0.0 SPACE ONLY
TACLE 96.48 100%/50% 53.24	IG GROUND BAR UL LISTED FOR USE AS SERVICE EQUIPMENT	51 SPARE	0.0 20 51 52 20	0.0 SPARE
COOLS 463.62 IOO% 463.62 IL80 IOO% IL80 R HEATER 0.25 IOO% 0.25	CONNECTED LOADS	53 SPARE DESCRIPTION CONNECTED DEMAND	0.0 20 53 54 20 DEMAND 200 A MINIMUM BUS SIZE	0.0 SPARE
MENT 98.86 IOOX 98.86 I. SEE SPECIFICATIONS EN EQUIP. 0.00 65% 0.00 2. SEE BELOW FOR MAIN BRE AL EQ. 0.00 100% 0.00 3. E.C. TO PROVIDE WITH LOCK E LARGEST HVAC/MOTOR 17.97 4. 240KA SURGE PROTECTION DEMAND 691.19 5.		KVAFACTORCONT. LOAD2981258RECEPTACLE0.00100%/50%MTRS/COOLS76.31100%HEATS0.00100%WATER HEATER0.00100%EQUIPMENT0.00100%KITCHEN EQUIP.0.0065%SPECIAL EQ.0.00100%25% OF LARGEST HVAC/MOTORTOTAL DEMAND	KVA MAIN LUGS ONLY 3.72 35 K MINIMUM AIC RATING 0.00	NEMA I ENCLOSURE GROUND BAR CONNECTED LOADS PHASE A: 27.4 k PHASE B: 27.2 k PHASE C: 24.7 k TOTAL: 79.3 k DEMAND 99 A
	277/480V, 3 PHASE, 4 WIRE	PANEL LDP1		120/208V, 3 PHASE, 4 WI C KVA DESCRIPTION C
LEV PIT LTS O.O 1/2 12 12 20 1 TS 135 OJ 1/2 12 12 20 3	2 20 12 12 12 12 12 12 MAUH 2 4 3P 12 12 4 4	1 LIA 3	IO.3 2 6 I/O I5O I 2 IO.2 I/O 3P 3 4	0.0 SPACE ONLY 0.0 SPACE ONLY
3 1/2 12 12 20 5 LS FAN II3 0.9 1/2 12 12 20 7	6 12 12 6 8 20 12 12 1/2 0.9 EF-6 8	5 7 LIB	5.8 VO 5 6 IL2 2 6 VO 150 7 8	0.0 SPACE ONLY 0.0 SPACE ONLY
0.9 12 3P 9 0.9 12 11	IO 3P I2 O.9 IO I2 I2 O.9 I2	9	I25 VO 3P 9 I2.2 VO II	0.0 SPACE ONLY 0.0 SPACE ONLY
S FAN 13 0.9 1/2 12 12 20 13 0.9 12 3P 15	14 40 8 10 3/4 8.9 AIR FRAME LAB DOOR 14 16 3P 8 8.9 16		8.0 2 6 VO 150 13 14 8.6 VO 3P 15 16	0.0 SPACE ONLY 0.0 SPACE ONLY
0.9 -2 12 -1 0.9 12 17 LS FAN II3 0.9 1/2 12 12 20 19	IS IS<	15 17 19 LID	6.5 VO 17 18 8.4 2 6 VO 150 19 20	0.0 SPACE ONLY 0.0 SPACE ONLY
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	23	3.4 - - VO 3P 21 22 - </td <td> 0.0 SPACE ONLY 0.0 SPACE ONLY</td>	0.0 SPACE ONLY 0.0 SPACE ONLY
ACE ONLY 0.0 25 ACE ONLY 0.0 27	26 0.0 SPACE FOR SHUNT TRIP 26	25 LIE	4.4 2 6 VO 150 25 26	0.0 SPACE ONLY 0.0 SPACE ONLY
AGE ONLY 0.0 27 AGE ONLY 0.0 29 AGE ONLY 0.0 29	28 0.0 SPACE ONLY 28 30 0.0 SPACE ONLY 30 32 0.0 SPACE ONLY 32	29 31 LIF	4.2 VO 3P 27 28 2.9 VO 29 30 12.0 2 6 VO 150 31 32	0.0 SPACE ONLT 0.0 SPACE ONLT 0.0 SPACE ONLT
ACE ONLY 0.0 33	34 0.0 SPACE ONLY 34	33 35	120 2 6 10 50 51 52 12.9 10 3P 33 34 8.9 100 35 36	- 0.0 SPACE ONLY
ARE 0.0 37	38 0.0 SPARE 38	37 SPACE ONLY 39 SPACE ONLY	O.O 37 38 O.O 37 38	- 0.0 SPACE ONLY
ARE 0.0 39 VARE 0.0 41	40 0.0 SPARE 40 42 0.0 SPARE 42	41 SPACE ONLY	0.0 339 40 0.0 41 42	0.0 SPACE ONLY 0.0 SPACE ONLY
PTIONCONNECTEDDEMANDDEMAND225 AMINIMUM BUS SIZEKVAFACTORKVAMAIN LUGS ONLYLOAD140125%1.75TACLE0.00100%/50%0.00	NEMA I ENCLOSURE	DESCRIPTION CONNECTED DEMAND KVA FACTOR CONT. LOAD 1.70 125% RECEPTACLE 51.66 100%/50% MTRS/COOLS 39.53 100% HEATS 11.80 100%	DEMAND 600 A MINIMUM BUS SIZE KVA 600 A MAIN CIRCUIT BREAKER 2.13 22 K MINIMUM AIC RATING 30.83 39.53 IL80	SURFACE MOUNTING NEMA I ENCLOSURE GROUND BAR
COOLS 63.90 IOO% 63.90 0.00 IOO% 0.00			0.25 NOTES	CONNECTED LOADS PHASE A: 54.2 k
COOLS 63.90 IOO\$ 63.90 0.00 IOO\$ 0.00 IOO\$ IOO\$ HEATER 0.00 IOO\$ 0.00 NOTES ENT 0.00 IOO\$ 0.00 I. SEE SPECIFICATIONS	CONNECTED LOADS PHASE A: 213 KVA	WATER HEATER 0.25 100% EQUIPMENT 45.08 100%	45.08 I. SEE SPECIFICATIONS	
OOLS 63.90 IOO% 63.90 0.00 IOO% 0.00 IOO% IOO% HEATER 0.00 IOO% 0.00 NOTES ENT 0.00 IOO% 0.00 I. SEE SPECIFICATIONS I EQUIP. 0.00 65% 0.00 2. E.C. TO PROVIDE SHUNT TRI EQ. 0.00 IOO% 0.00 3.	PHASE A:21.3 KVAPHASE B:21.4 KVAPHASE C:22.6 KVA	EQUIPMENT 45.08 100% KITCHEN EQUIP. 0.00 65% SPECIAL EQ. 0.00 100%	45.08 I. SEE SPECIFICATIONS 0.00 2. 0.00 3.	PHASE B: 51.8 k PHASE C: 44 k
OOLS 63.90 IOO% 63.90 0.00 IOO% 0.00 IOO% IOO% HEATER 0.00 IOO% 0.00 NOTES INT 0.00 IOO% 0.00 I. SEE SPECIFICATIONS I EQUIP. 0.00 65% 0.00 2. E.C. TO PROVIDE SHUNT TRI	PHASE A:21.3 KVA21.9 BREAKER.PHASE B:21.4 KVA	EQUIPMENT 45.08 100% KITCHEN EQUIP. 0.00 65%	45.08 I. SEE SPECIFICATIONS 0.00 2.	PHASE B: 51.8 k PHASE C: 44 k TOTAL: 150 k
OOLS 63.90 IOOS 63.90 0.00 IOOS 0.00 NOTES HEATER 0.00 IOOS 0.00 NOTES ENT 0.00 IOOS 0.00 I. SEE SPECIFICATIONS I EQUIP. 0.00 655 0.00 2. E.C. TO PROVIDE SHUNT TRI EQ. 0.00 IOOS 0.00 3. LARGEST HVAC/MOTOR 8.31 4. DEMAND 73.97 5.	PHASE A: 213 KVA PHASE B: 214 KVA PHASE C: 226 KVA TOTAL: 653 KVA DEMAND 89 AMP I20/208V, 3 PHASE, 4 WIRE CKT CB W G C KVA 2 20 12 12 0.2 VAV-LI9 THRU L22 2 4 20 12 12 12 15 UH1 124 4	EQUIPMENT 45.08 100% KITCHEN EQUIP, 0.00 65% SPECIAL EQ. 0.00 100% 25% OF LARGEST HVAC/MOTOR TOTAL DEMAND TOTAL DEMAND CKT DESCRIPTION 1 REC CORI 3 DOOR OPERATOR 100A	45.08 I. SEE SPECIFICATIONS 0.00 2. 0.00 3. 0.00 4. 129.62 5. KVA C G W CB CKT CKT CB W G 0.7 3/4 10 10 20 1 2 20 12 12 1.0 1/2 12 12 20 3 4 20 12 12	PHASE B: 548 k PHASE C: 44 k TOTAL: 50 k DEMAND 360 A 120/208V, 3 PHASE, 4 WI C KVA DESCRIPTION C 1/2 0.5 E REC 105 N REC 105
COLS 63.90 IOOX 63.90 EATER 0.00 IOOX 0.00 NOTES EATER 0.00 IOOX 0.00 NOTES NT 0.00 IOOX 0.00 I. SEE SPECIFICATIONS EQUIP. 0.00 65% 0.00 2. E.C. TO PROVIDE SHUNT TRI EQ. 0.00 IOOX 0.00 3. ARGEST HVAC/MOTOR 8.31 4. EMAND 73.97 5.	PHASE A: 213 KVA PHASE B: 214 KVA PHASE C: 226 KVA TOTAL: 663 KVA DEMAND 89 AMP I20/208V, 3 PHASE, 4 WIRE CKT CB W G C KVA Q 12 12 1/2 0.2 VAV-LI9 THRU L22 2 4 20 12 1/2 1/2 1/2 UH1 124 4 6 20 12 1/2 1/2 1/2 UH1 124 4 6 20 12 1/2 1/2 1/2 1/2 1/2 1/2 8 20 10 10 1 10 HOTBOX HEATER 8	EQUIPMENT 45.08 1008 KITCHEN EQUIP, 0.00 658 SPECIAL EQ. 0.00 1008 258 OF LARGEST HVAC/MOTOR TOTAL DEMAND TOTAL DEMAND CKT DESCRIPTION I REC CORI 3 DOOR OPERATOR 100A 5 DOOR OPERATOR 100A 7 FLOOR REC 100	45.08 I. SEE SPECIFICATIONS 0.00 2. 0.00 3. 0.00 4. 129.62 5. KVA C G W CB CKT CKT CB W G 0.7 3/4 IO IO 20 1 2 20 12 12 IO I/2 12 12 20 3 4 20 12 12 IO I/2 12 12 20 5 6 20 12 12 IO I/2 12 12 20 7 8 20 12 12	PHASE B: 548 I PHASE C: 44 I TOTAL: 150 I DEMAND 360 / 120/208V, 3 PHASE, 4 WI C KVA DESCRIPTION 0 1/2 0.5 1/2 0.5 1/2 0.5 1/2 0.7
OLS 63.90 IOO% 63.90 EATER 0.00 IOO% 0.00 NOTES NT 0.00 IOO% 0.00 I. SEE SPECIFICATIONS EQUIP. 0.00 65% 0.00 2. E.C. TO PROVIDE SHUNT TRI EQ. 0.00 IOO% 0.00 3. ARGEST HVAC/MOTOR 8.31 4. EMAND 73.97 5.	PHASE A: 213 KVA PHASE B: 214 KVA PHASE C: 226 KVA TOTAL: 653 KVA DEMAND 89 AMP CKT CB W G C KVA CKT CB W G C KVA Question CKT 2 20 12 1/2 0/2 4 20 12 1/2 0/2 VAV-U9 THRU 1/2 2 4 20 1/2 1/2 1/5 UHH 1/24 4 6 20 1/2 1/2 1/0 SECURITY POWER SUPPLY 6 8 20 10 1 10 HOTBOX HEATER 8 10 20 10 1 10 HOTBOX HEATER 8 10 20 10 3/4 2/0 14-122, FC-122 12	EQUIPMENT 45.08 1008 KITCHEN EQUIP. 0.00 658 SPECIAL EQ. 0.00 1008 258 OF LARGEST HVAC/MOTOR TOTAL DEMAND TOTAL DEMAND CKT DESCRIPTION I REC CORI 3 DOOR OPERATOR 100A 5 DOOR OPERATOR 100A 7 FLOOR REC 100 9 REC 100 II TV REC 100	45.08 I. SEE SPECIFICATIONS 0.00 2. 0.00 3. 0.00 4. 129.62 5. KVA C G W CB CKT CKT CB W G 0.7 3/4 10 10 20 1 2 20 12 12 IO 1/2 12 12 20 3 4 20 12 12 IO 1/2 12 12 20 5 6 20 12 12 IO 1/2 12 12 20 7 8 20 12 12 O.7 3/4 10 10 20 7 8 20 12 12 O.7 3/4 10 10 20 9 10 20 12 12 O.4 3/4 10 10 20 9 10 20 12 12	PHASE B: 548 PHASE C: 44 TOTAL: 150 DEMAND 360 I2O/208V, 3 PHASE, 4 W C KVA DESCRIPTION V2 0.5 N REC 105 V2 0.5 N REC 105 V2 0.7 S REC 105 V2 0.7 S REC 105 V2 0.7 N REC 107 V2 0.5 N REC 107
XOLS 63.90 IOO% 63.90 QOO IOO% QOO NOTES NT QOO IOO% QOO I. SEE SPECIFICATIONS EQUIP. QOO 65% QOO 2. E.C. TO PROVIDE SHUNT TREEQ. EQ. QOO IOO% QOO 3. ARGEST HVAC/MOTOR 8.31 4. EMAND 73.97 5.	PHASE A: 213 KVA PHASE B: 214 KVA PHASE C: 226 KVA TOTAL: 663 KVA DEMAND 89 AMP CKT CB W G C KVA CKT CB W G C KVA Q2 VAV-U9 THRU L22 2 4 20 12 12 12 4 20 12 12 12 15 UHH 124 4 4 4 4 4 6 20 12 12 12 10 SECURITY POWER SUPPLY 6 8 20 10 10 HOTBOX HEATER 8 10 10 HOTBOX HEATER 8 10 20 10 3/4 20 HP-123, FC-123 12 14 2P 10 - 20 14 16 25 10 10 3/4 20 HP-123, FC-123 16	EQUIPMENT 45.08 1008 KITCHEN EQUIP. 0.00 65% SPECIAL EQ. 0.00 100% 25% OF LARGEST HVAC/MOTOR TOTAL DEMAND TOTAL DEMAND CKT DESCRIPTION 1 REC CORI 3 DOOR OPERATOR 100A 5 DOOR OPERATOR 100A 7 FLOOR REC 100 9 REC 100 11 TV REC 100 13 REC 101 15 REC 103	45.08 I. SEE SPECIFICATIONS 0.00 2. 0.00 3. 0.00 4. 129.62 5. KVA C G W CB CKT CKT CB W G 0.7 3/4 IO IO 20 I 2 20 I2 I2 IO I/2 I2 I2 20 3 4 20 I2 I2 IO I/2 I2 I2 20 5 6 20 I2 I2 IO I/2 I2 I2 20 7 8 20 I2 I2 O.7 3/4 IO IO 20 7 8 20 I2 I2 O.7 3/4 IO IO 20 9 IO 20 I2 I2 O.5 I/2 I2 I2 20 I3 I4 20 I2 I2 O.5 I/2 I2 I2 I2 I2 I2	PHASE Bi 548 PHASE Ci 44 TOTAL: 150 DEMAND 360 120/208V, 3 PHASE, 4 W C KVA DESCRIPTION 1 1/2 0.5 1/2 0.5 1/2 0.5 1/2 0.5 1/2 0.5 1/2 0.5 1/2 0.5 1/2 0.5 1/2 0.5 1/2 0.5 1/2 0.7 SREC 105 1/2 0.7 SW REC 107 1/2 0.5 1/2 0.5 1/2 0.5 1/2 0.5 1/2 0.5 1/2 0.5 1/2 0.5 1/2 0.5 1/2 0.5 1/2 0.5
DOLS 63.90 IOOS 63.90 -EATER 0.00 IOOS 0.00 NOTES NT 0.00 IOOS 0.00 I. SEE SPECIFICATIONS EQUIP. 0.00 655 0.00 2. E.C. TO PROVIDE SHUNT TRI EQ. 0.00 IOOS 0.00 3. ARGEST HVAC/MOTOR 8.31 4. VEMAND 73.97 5.	PHASE A: 213 KVA PHASE B: 214 KVA PHASE C: 226 KVA TOTAL: 653 KVA DEMAND 89 AMP I20/208V, 3 PHASE, 4 WIRE CKT CB W G C KVA DEMAND 89 AMP CKT CB W G C KVA Q 12 12 1/2 0.2 VAV-IJ9 THRU I.22 2 4 20 12 1/2 1/2 1/2 UH 1/2 2 4 20 12 1/2 1/2 1/2 UH 1/2 4 6 20 12 1/2 1/2 UH 1/2 4 6 20 12 1/2 1/0 SECURITY POWER SUPPLY 6 8 0 1 1/0 HOTBOX HEATER 8 1/2	EQUIPMENT 45.08 IOOS KITCHEN EQUIP. 0.00 65% SPECIAL EQ. 0.00 IOOS 25% OF LARGEST HVAC/MOTOR TOTAL DEMAND TOTAL DEMAND ESCRIPTION I REC CORI 3 DOOR OPERATOR IOOA 5 5 DOOR OPERATOR IOOA 7 FLOOR REC IOO 9 9 REC IOI 1 TV REC IOO 1 17 REC IO3 1 1 REC IO3 1	45.08 I. SEE SPECIFICATIONS 0.00 2. 0.00 3. 0.00 4. 129.62 5. KVA C G W CB CKT CKT CB W G 0.00 4. -	PHASE Bi 548 (PHASE Ci 44 (10TALi TOTALi 150 (DEMAND 360 / DEMAND 360 / 360 / 120/208V, 3 PHASE, 4 WI 160 / 120/208V, 3 PHASE, 4 WI 160 / 120/205 E REC 105 120/205 N REC 105 120/205 N REC 107 120/205 N REC 107 120/205 E REC 107 120/205 E REC 107 120/205 VAV-L1317.18.100.11
DOLS 63.90 IOOS 63.90 0.00 IOOS 0.00 NOTES INT 0.00 IOOS 0.00 I. SEE SPECIFICATIONS EQUIP. 0.00 658 0.00 2. E.C. TO PROVIDE SHUNT TRI EQUIP. 0.00 IOOS 0.00 3. LARGEST HVAC/MOTOR 8.31 4. DESCRIPTION KVA C G W CB CKT LER BH 0.7 1/2 12 20 1 LER BH 0.7 1/2 12 20 3 LER CONTROLS 2.4 3/4 10 30 5 REL HEAT TRACE NOTE 23 19 1 10 10 20 7 E HEAT TRACE NOTE 23 19 1 10 10 20 7 E HEAT TRACE NOTE 23 19 1 10 10 20 9 CNET ROUTER 0.5 1/2 12 20	PHASE A: 2.3 KVA PHASE A: 2.3 KVA PHASE B: 2.4 KVA PHASE C: 226 KVA TOTAL: 65.3 KVA DEMAND 89 AMP I20/208V, 3 PHASE, 4 WIRE CKT CB W G C KVA DESCRIPTION CKT 2 20 12 1/2 0.2 VAV-U9 THRU L22 2 4 20 LH 124 4 6 20 12 1/2 1/2 UH 124 4 6 A UH 124 4 6 20 12 1/2 1/2 UO SECURITY POWER SUPPLY 6 8 20 10 1 10 HOTBOX HEATER 8 10 10 HOTBOX HEATER 10 12 25 10 0 3/4 2.0 HP-123, FC-123 16 18 20 25 10 0 3/4 2.0 14 20 12 27 16 16 25 10 3/4 2.0 14 20 12 28, FC-28 20 24 2	EQUIPMENT 45.08 IOOS KITCHEN EQUIP. 0.00 65% SPECIAL EQ. 0.00 IOOS 25% OF LARGEST HVAC/MOTOR TOTAL DEMAND TOTAL DEMAND I ECCORI 3 DOOR OPERATOR IOOA 5 5 DOOR OPERATOR IOOA 7 7 FLOOR REC IOO 1 1 TV REC IOO 1 1 TV REC IOO 1 1 TV REC IOO 1 1 REC IO3 1 1 REC IO3 1 1 REC IO3 1 23 REC IO3D 1	45.08 I. SEE SPECIFICATIONS 0.00 3. 0.00 4. 129.62 5. KVA C G W CB CKT CKT CB W G 0.00 4. -	PHASE B: 548 H PHASE C: 44 H TOTAL: 150 H DEMAND 360 A DEMAND 360 A 120/208V, 3 PHASE, 4 WI 360 A C KVA DESCRIPTION 1/2 0.5 E REC 105 1/2 0.5 N REC 105 1/2 0.5 W REC 105 1/2 0.7 S REC 105 1/2 0.7 S REC 107 1/2 0.5 N REC 107 1/2 0.5 N REC 107 1/2 0.5 N REC 107 1/2 0.5 V AV-13,17,18,110,11 1/2 0.3 VAV-13,17,18,110,11 1/2 0.3 STE SIGN
DOLS 63.90 IOOS 63.90 0.00 IOOS 0.00 NOTES INT 0.00 IOOS 0.00 IL SEE SPECIFICATIONS EQUIP. 0.00 IOOS 0.00 2. EC. TO PROVIDE SHUNT TR EQUIP. 0.00 IOOS 0.00 3. LARGEST HVAC/MOTOR 8.31 4. DESCRIPTION KVA C G W CB CKT LER BH 0.7 1/2 12 20 1 LER BH 0.7 1/2 12 20 3 LER CONTROLS 2.4 3/4 10 30 5 RREL HEAT TRACE NOTE 23 19 1 10 10 20 7 E HEAT TRACE NOTE 23 19 1 10 10 20 9 CNET ROUTER 0.5 1/2 12 12 20 18 ACE ONLY 0.0 -<	RP BREAKER. PHASE A: 213 KVA PHASE B: 214 KVA PHASE C: 226 KVA TOTAL: 653 KVA DEMAND 89 AMP I20/208V, 3 PHASE, 4 WIRE CKT CB W G C KVA DEMAND 89 AMP CKT CB W G C KVA 2 20 I2 I2 V2 Q2 VAV-U9 THRU L22 2 4 20 I2 I2 V2 Q2 VAV-U9 THRU L22 2 4 20 I2 I2 V2 L5 UH 124 4 6 20 I2 I2 V2 L0 SECURITY POWER SUPPLY 6 8 20 I0 I I0 HOTBOX HEATER 8 I0 12 25 I0 0 3/4 2.0 HP-123, FC-123 I6 18 2P I0 - - 2.0 I8 I8 IP I2 I8 20 I0 3/	EQUIPMENT 45.08 IOOS KITCHEN EQUIP. 0.00 65% SPECIAL EQ. 0.00 IOOS 25% OF LARGEST HVAC/MOTOR TOTAL DEMAND TOTAL DEMAND I ECCORI 3 DOOR OPERATOR IOOA 5 5 DOOR OPERATOR IOOA 7 7 FLOOR REC IOO 1 1 TV REC IOO 1 1 TV REC IOO 1 1 TV REC IOO 1 1 REC IOI 1 1 REC IOI 1 1 REC IO3 1 1 REC IO3 1 1 REC IO3 1	45.08 I. SEE SPECIFICATIONS 0.00 2. 0.00 3. 0.00 4. 129,62 5. KVA C G W CB CKT CKT CB W G 0.01 4. -	PHASE B: 548 H PHASE C: 44 H TOTAL: 150 H DEMAND 360 A DEMAND 360 A 120/208V, 3 PHASE, 4 WI 360 A C KVA DESCRIPTION 1/2 0.5 E REC 105 1/2 0.5 N REC 105 1/2 0.5 W REC 105 1/2 0.5 N REC 105 1/2 0.5 W REC 105 1/2 0.7 S REC 105 1/2 0.7 S REC 107 1/2 0.5 N REC 107 1/2 0.5 N REC 107 1/2 0.5 N REC 107 1/2 0.5 VAV-13,17,18,10,11 1/2 0.3 VAV-13,17,18,10,11 1/2 0.3 STE SIGN 1 0.5 STE SIGN
DOLS 63.90 DOX 63.90 PEATER 0.00 IOOX 0.00 NOTES INT 0.00 IOOX 0.00 I. SEE SPECIFICATIONS EQUIP. 0.00 65% 0.00 3. LARGEST HVAC/MOTOR 8.31 4. VEMAND 73.97 5.	PHASE A: 2.3 KVA PHASE A: 2.3 KVA PHASE B: 2.4 KVA PHASE C: 226 KVA TOTAL: 65.3 KVA DEMAND 89 AMP I20/208V, 3 PHASE, 4 WIRE CKT CB W G C KVA DESCRIPTION CKT 2 20 12 1/2 0/2 VAV-U9 THRU 122 2 4 20 12 1/2 0/2 VAV-U9 THRU 122 2 4 20 12 1/2 1/2 1/2 UH 124 4 6 20 12 1/2 1/2 UH 124 4 6 20 12 1/2 1/2 UH 124 4 6 20 12 1/2 1/2 UH 124 4 6 20 1/2 1/2 1/2 UH 124 4 6 20 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2	EQUIPMENT 45.08 IOOS KITCHEN EQUIP. 0.00 65% SPECIAL EQ. 0.00 IOOS 25% OF LARGEST HVAC/MOTOR TOTAL DEMAND TOTAL DEMAND I I CKT DESCRIPTION I I REC CORI 3 DOOR OPERATOR IOOA 5 DOOR OPERATOR IOOA 5 7 FLOOR REC IOO I 1 TV REC IOO I 13 REC IO3 I 7 FLOOR REC IOO I 9 REC IO3 I 17 REC IO3 I 17 REC IO3 I 17 REC IO3E I 21 REC IO3E I 22 REC IO3E I	45.08 I. SEE SPECIFICATIONS 0.00 2 0.00 3. 0.00 4. 129.62 5. KVA C G W CB CKT CKT CB W G 0.00 4. - - - - - - - 129.62 5. - <td>PHASE B: 548 H PHASE C: 44 H TOTAL: 150 H DEMAND 360 Z DEMAND 360 Z C KVA DESCRIPTION 1/2 0.5 N REC 105 1/2 0.5 N REC 105 1/2 0.5 W REC 105 1/2 0.5 N REC 105 1/2 0.5 N REC 105 1/2 0.5 N REC 105 1/2 0.7 S REC 107 1/2 0.7 S REC 107 1/2 0.5 N REC 107 1/2 0.5 N REC 107 1/2 0.5 N REC 107 1/2 0.5 E REC 107 1/2 0.2 VAV-13,17,1,8,110,11 1/2</td>	PHASE B: 548 H PHASE C: 44 H TOTAL: 150 H DEMAND 360 Z DEMAND 360 Z C KVA DESCRIPTION 1/2 0.5 N REC 105 1/2 0.5 N REC 105 1/2 0.5 W REC 105 1/2 0.5 N REC 105 1/2 0.5 N REC 105 1/2 0.5 N REC 105 1/2 0.7 S REC 107 1/2 0.7 S REC 107 1/2 0.5 N REC 107 1/2 0.5 N REC 107 1/2 0.5 N REC 107 1/2 0.5 E REC 107 1/2 0.2 VAV-13,17,1,8,110,11 1/2
DOLS 63.90 IOOS 63.90 IMAGE 0.00 IOOS 0.00 NOTES INT 0.00 IOOS 0.00 I. SEE SPECIFICATIONS IEQUIP. 0.00 IOOS 0.00 2. EC. TO PROVIDE SHUNT TRUE IEQUIP. 0.00 IOOS 0.00 3. LARGEST HVAC/MOTOR 8.31 4. DESCRIPTION KVA C G W CB CKT LER B-1 0.7 1/2 12 12 20 1 LER CONTROLS 2.4 3/4 10 10 30 5 RREL HEAT TRACE NOTE 2.3 19 1 10 10 20 9 COLECONTROLS 2.4 3/4 10 10 20 9 RREL HEAT TRACE NOTE 2.3 19 1 10 10 20 9 CACE ONLY 0.0 7 12 12 12 13 </td <td>PHASE A: 213 KVA PHASE B: 214 KVA PHASE C: 226 KVA TOTAL: 653 KVA DEMAND 89 AMP IZO/208V, 3 PHASE, 4 WIRE CKT CB W G C KVA DESCRIPTION CKT 2 20 12 1/2 0/2 4 20 12 1/2 1/5 UHH 124 4 6 20 12 1/2 1/5 UHH 124 4 6 20 12 1/2 1/5 UHH 124 4 6 20 12 1/2 1/2 1/2 1/2 1/2 4 20 12 1/2 1/2 1/2 1/2 1/2 6 20 12 1/2 1/2 1/2 1/2 1/2 6 20 10 0 1 1/0 HOTBOX HEATER 1/2 1/2 25 10 0 3/4 2/0 HP-123, FC-123 1/2 1/4 27 10 - - 2/0 1/2</td> <td>EQUIPMENT 45.08 IOOS KITCHEN EQUIP. 0.00 65% SPECIAL EQ. 0.00 IOOS 25% OF LARGEST HVAC/MOTOR TOTAL DEMAND TOTAL DEMAND TOTAL DEMAND CKT DESCRIPTION I I REC CORI 3 DOOR OPERATOR IOOA 5 DOOR OPERATOR IOOA 5 DOOR OPERATOR IOOA 7 FLOOR REC IOO I I 9 REC IOI I I 18 REC IO3 I I 17 REC IO3 I I 18 REC IO3 I I 19 REC IO3 I I 17 REC IO3E I I 21 REC IO3E I I 21 REC IO3E I I 21 REC IO3E I I 23 REC IO3E I I 29 REC IO3G I I</td> <td>45.08 I. SEE SPECIFICATIONS 0.00 2. 0.00 3. 0.00 4. 129.62 5. KVA C G W CB CKT CKT CB W G KVA C G W CB CKT CKT CB W G KVA C G W CB CKT CKT CB W G 0.7 3/4 IO IO 20 1 2 20 I2 I2 IO I/2 I2 I2 20 3 4 20 I2 I2 IO I/2 I2 I2 20 5 6 20 I2 I2 IO I/2 I2 I2 20 1 I2 20 I2 I2 IO I/2 I2 I2 20 I I2 <td< td=""><td>PHASE B: 548 H PHASE C: 44 H TOTAL: 50 H DEMAND 360 A DEMAND 360 A C KVA DESCRIPTION V2 0.5 E REC 105 V2 0.5 N REC 105 V2 0.5 W REC 105 V2 0.5 N REC 105 V2 0.5 W REC 105 V2 0.5 N REC 105 V2 0.5 W REC 107 V2 0.7 S REC 107 V2 0.3 VAV-13,17,18,10,11 V2 0.3 VAV-13,17,18,10,11 V2 0.3 VAV-13,17,18,10,11 V2 0.3 STE SIGN 1 0.5 STE SIGN 1</td></td<></td>	PHASE A: 213 KVA PHASE B: 214 KVA PHASE C: 226 KVA TOTAL: 653 KVA DEMAND 89 AMP IZO/208V, 3 PHASE, 4 WIRE CKT CB W G C KVA DESCRIPTION CKT 2 20 12 1/2 0/2 4 20 12 1/2 1/5 UHH 124 4 6 20 12 1/2 1/5 UHH 124 4 6 20 12 1/2 1/5 UHH 124 4 6 20 12 1/2 1/2 1/2 1/2 1/2 4 20 12 1/2 1/2 1/2 1/2 1/2 6 20 12 1/2 1/2 1/2 1/2 1/2 6 20 10 0 1 1/0 HOTBOX HEATER 1/2 1/2 25 10 0 3/4 2/0 HP-123, FC-123 1/2 1/4 27 10 - - 2/0 1/2	EQUIPMENT 45.08 IOOS KITCHEN EQUIP. 0.00 65% SPECIAL EQ. 0.00 IOOS 25% OF LARGEST HVAC/MOTOR TOTAL DEMAND TOTAL DEMAND TOTAL DEMAND CKT DESCRIPTION I I REC CORI 3 DOOR OPERATOR IOOA 5 DOOR OPERATOR IOOA 5 DOOR OPERATOR IOOA 7 FLOOR REC IOO I I 9 REC IOI I I 18 REC IO3 I I 17 REC IO3 I I 18 REC IO3 I I 19 REC IO3 I I 17 REC IO3E I I 21 REC IO3E I I 21 REC IO3E I I 21 REC IO3E I I 23 REC IO3E I I 29 REC IO3G I I	45.08 I. SEE SPECIFICATIONS 0.00 2. 0.00 3. 0.00 4. 129.62 5. KVA C G W CB CKT CKT CB W G KVA C G W CB CKT CKT CB W G KVA C G W CB CKT CKT CB W G 0.7 3/4 IO IO 20 1 2 20 I2 I2 IO I/2 I2 I2 20 3 4 20 I2 I2 IO I/2 I2 I2 20 5 6 20 I2 I2 IO I/2 I2 I2 20 1 I2 20 I2 I2 IO I/2 I2 I2 20 I I2 I2 <td< td=""><td>PHASE B: 548 H PHASE C: 44 H TOTAL: 50 H DEMAND 360 A DEMAND 360 A C KVA DESCRIPTION V2 0.5 E REC 105 V2 0.5 N REC 105 V2 0.5 W REC 105 V2 0.5 N REC 105 V2 0.5 W REC 105 V2 0.5 N REC 105 V2 0.5 W REC 107 V2 0.7 S REC 107 V2 0.3 VAV-13,17,18,10,11 V2 0.3 VAV-13,17,18,10,11 V2 0.3 VAV-13,17,18,10,11 V2 0.3 STE SIGN 1 0.5 STE SIGN 1</td></td<>	PHASE B: 548 H PHASE C: 44 H TOTAL: 50 H DEMAND 360 A DEMAND 360 A C KVA DESCRIPTION V2 0.5 E REC 105 V2 0.5 N REC 105 V2 0.5 W REC 105 V2 0.5 N REC 105 V2 0.5 W REC 105 V2 0.5 N REC 105 V2 0.5 W REC 107 V2 0.7 S REC 107 V2 0.3 VAV-13,17,18,10,11 V2 0.3 VAV-13,17,18,10,11 V2 0.3 VAV-13,17,18,10,11 V2 0.3 STE SIGN 1 0.5 STE SIGN 1
DOLS 63.90 IOO1 63.90 -EATER 0.00 IOO1 0.00 NOTES NT 0.00 IOO3 0.00 I SEE SPECIFICATIONS EQUP. 0.00 653 0.000 2 EC. TO PROVIDE SHUNT TRIES EQUP. 0.00 6053 0.000 3 _ARGEST HVAC/MOTOR 8.31 4. JEMAND 73.97 5. DESCRPTION KVA C G W CB CKT LER DH 0.7 1/2 12 20 1 LER DH 0.7 1/2 12 20 3 LER DH 0.7 1/2 12 20 3 LER CONTROLS 2.4 3/4 10 10 20 7 EHEAT TRACE NOTE 2.3 19 1 10 10 20 9 CE ONLY 0.0	PHASE A: 213 KVA PHASE A: 213 KVA PHASE D: 244 KVA PHASE C: 226 KVA TOTAL: 663 KVA DEMAND 89 AMP IZO/208V, 3 PHASE, 4 WIRE CKT CB W G C KVA DESCRIPTION CKT 2 20 12 12 1/2 0.2 VAV-UP THRU 122 2 4 20 12 12 1/2 0.2 VAV-UP THRU 122 2 4 20 12 12 1/2 0.2 VAV-UP THRU 122 2 4 20 12 12 1/2 0.2 VAV-UP THRU 122 2 4 20 12 12 1/2 0.5 ECURITY POWER SUPPLY 6 8 20 10 10 HOTBOX HEATER 10 HP-123, FC-122 12 14 2P 0 - - 20 14 6 2P 0 - - 20 14 6 2P 10 - - 20 14 10 100 <t< td=""><td>EQUIPMENT 45.08 IOOS KITCHEN EQUIP. 0.00 65% SPECIAL EQ. 0.00 IOOS 25% OF LARGEST HVAC/MOTOR TOTAL DEMAND TOTAL DEMAND TOTAL DEMAND CKT DESCRIPTION 1 I REC CORI 3 DOOR OPERATOR IOOA 5 DOOR OPERATOR IOOA 5 DOOR OPERATOR IOOA 7 FLOOR REC IOO 9 REC IOO 1 TV REC IOO 13 REC IOI 15 REC IO3 17 REC IO3 17 REC IO3E 23 REC IO3E 21 REC IO3E 23 REC IO3E 21 REC IO3E 21 22 23 REC IO3E 23 23 23 REC IO3E 23 24 23 REC IO3E 23 23 24 REC IO3E 24 25 25 REC IO3E 33 33 33 33 RE</td><td>45.08 I SEE SPECIFICATIONS 0.00 2. 3. 3. 5. 0.00 4. 129.62 5. 5. KVA C G W CB CKT CKT CB W G 0.01 4. 129.62 5.</td><td>PHASE B: 548 I PHASE C: 44 I TOTAL: 50 I DEMAND 360 A C KVA DESCRIPTION 0 V2 0.5 V2 0.7 SREC 105 V2 0.7 SW REC 107 V2 0.5 V2 0.7 SW REC 107 V2 0.5 V2 0.7 V2 0.5 V2 0.5 V2 0.4 V2 0.2 V2 0.4 V3 VAV-L3.17.18.10.11 </td></t<>	EQUIPMENT 45.08 IOOS KITCHEN EQUIP. 0.00 65% SPECIAL EQ. 0.00 IOOS 25% OF LARGEST HVAC/MOTOR TOTAL DEMAND TOTAL DEMAND TOTAL DEMAND CKT DESCRIPTION 1 I REC CORI 3 DOOR OPERATOR IOOA 5 DOOR OPERATOR IOOA 5 DOOR OPERATOR IOOA 7 FLOOR REC IOO 9 REC IOO 1 TV REC IOO 13 REC IOI 15 REC IO3 17 REC IO3 17 REC IO3E 23 REC IO3E 21 REC IO3E 23 REC IO3E 21 REC IO3E 21 22 23 REC IO3E 23 23 23 REC IO3E 23 24 23 REC IO3E 23 23 24 REC IO3E 24 25 25 REC IO3E 33 33 33 33 RE	45.08 I SEE SPECIFICATIONS 0.00 2. 3. 3. 5. 0.00 4. 129.62 5. 5. KVA C G W CB CKT CKT CB W G 0.01 4. 129.62 5.	PHASE B: 548 I PHASE C: 44 I TOTAL: 50 I DEMAND 360 A C KVA DESCRIPTION 0 V2 0.5 V2 0.7 SREC 105 V2 0.7 SW REC 107 V2 0.5 V2 0.7 SW REC 107 V2 0.5 V2 0.7 V2 0.5 V2 0.5 V2 0.4 V2 0.2 V2 0.4 V3 VAV-L3.17.18.10.11
DOLS 63.90 IOOIs 63.90 EATER 0.00 IOOIs 0.00 NOTES NT 0.00 IOOIs 0.00 ISEE SPECIFICATIONS EQUP, 0.00 655 0.00 2 EC. TO PROVIDE SHUNT TREEQUIDE SHUNT TREESUIDE SHUND STATE SHUND STATE SHUND STATE SHUND STATE SHUND	PHASE A: 213 KVA PHASE B: 2.44 KVA PHASE C: 22.6 KVA TOTAL: 663 KVA DEMAND 89 AMP I20/208V, 3 PHASE, 4 WIRE CKT CB W G C KVA DESCRPTION CKT 2 20 12 12 1/2 0.2 VAV-19 THRU 122 2 UHH 124 4 6 20 12 12 1/2 1/2 0.2 VAV-19 THRU 122 2 UHH 124 4 6 20 12 12 1/2 1/2 1/2 1/2 UO SECURITY POWER SUPPLY 6 8 20 10 10 11 10 HOTBOX HEATER 8 0 20 10 10 3/4 2.0 PHASE, FC-122 12 14 6 25 10 10 3/4 2.0 PHASE, FC-122 12 14 10 20 22 14 10 3/4 2.0 PH-28, FC-28 20 22 24 25 10 10 3/4 2.0 12 24 30 2P 8 20 26 30 2P 8 24 30 30 3/4 2.4 1P-29, FC-29 24 24 30 3/4 2.4 14 <t< td=""><td>EQUIPMENT 45.08 IOOS KITCHEN EQUIP. 0.00 65% SPECIAL EQ. 0.00 IOOS 25% OF LARGEST HVAC/MOTOR TOTAL DEMAND TOTAL DEMAND TOTAL DEMAND CKT DESCRIPTION 1 1 REC CORI 3 DOOR OPERATOR IOOA 5 DOOR OPERATOR IOOA 5 DOOR OPERATOR IOOA 7 FLOOR REC IOO 1 1 1 TV REC IO3E 1 1 23 REC IO3E 1 1 </td></t<> <td>45.08 I. SEE SPECIFICATIONS 0.00 2 0.00 3. 0.00 4. 129.62 5. KVA C G W CB CKT CKT CB W G 0.01 4. - - - - - - - 129.62 5. -<td>PHASE Bi 518 i PHASE Ci 44 i TOTAL: 150 i DEMAND 360 / I2O/208V, 3 PHASE, 4 W 360 / V2 0.5 E REC 105 V2 0.5 N REC 105 V2 0.5 W REC 105 V2 0.5 W REC 105 V2 0.7 S REC 105 V2 0.7 SW REC 105 V2 0.7 SW REC 107 V2 0.5 E REC 107 V2 0.5 E REC 107 V2 0.5 E REC 107 V2 0.5 SW REC 107 V2 0.5 SW REC 107 V2 0.5 SW REC 107 V2</td></td>	EQUIPMENT 45.08 IOOS KITCHEN EQUIP. 0.00 65% SPECIAL EQ. 0.00 IOOS 25% OF LARGEST HVAC/MOTOR TOTAL DEMAND TOTAL DEMAND TOTAL DEMAND CKT DESCRIPTION 1 1 REC CORI 3 DOOR OPERATOR IOOA 5 DOOR OPERATOR IOOA 5 DOOR OPERATOR IOOA 7 FLOOR REC IOO 1 1 1 TV REC IO3E 1 1 23 REC IO3E 1 1	45.08 I. SEE SPECIFICATIONS 0.00 2 0.00 3. 0.00 4. 129.62 5. KVA C G W CB CKT CKT CB W G 0.01 4. - - - - - - - 129.62 5. - <td>PHASE Bi 518 i PHASE Ci 44 i TOTAL: 150 i DEMAND 360 / I2O/208V, 3 PHASE, 4 W 360 / V2 0.5 E REC 105 V2 0.5 N REC 105 V2 0.5 W REC 105 V2 0.5 W REC 105 V2 0.7 S REC 105 V2 0.7 SW REC 105 V2 0.7 SW REC 107 V2 0.5 E REC 107 V2 0.5 E REC 107 V2 0.5 E REC 107 V2 0.5 SW REC 107 V2 0.5 SW REC 107 V2 0.5 SW REC 107 V2</td>	PHASE Bi 518 i PHASE Ci 44 i TOTAL: 150 i DEMAND 360 / I2O/208V, 3 PHASE, 4 W 360 / V2 0.5 E REC 105 V2 0.5 N REC 105 V2 0.5 W REC 105 V2 0.5 W REC 105 V2 0.7 S REC 105 V2 0.7 SW REC 105 V2 0.7 SW REC 107 V2 0.5 E REC 107 V2 0.5 E REC 107 V2 0.5 E REC 107 V2 0.5 SW REC 107 V2 0.5 SW REC 107 V2 0.5 SW REC 107 V2
DOLS 63.90 DOX 63.90 HEATER 0.00 IOOS 0.00 NOTES INT 0.00 IOOS 0.00 I SEE SPECIFICATIONS EQUP. 0.00 65% 0.00 3. 4. LARGEST HVAC/MOTOR 8.31 4. DESCRIPTION KVA C G W CB CKT LER DESCRIPTION KVA C G W CB CKT LER P-1 0.7 1/2 12 12 20 1 LER P-2 0.7 1/2 12 12 20 1 LER CONTROLS 2.4 3/4 10 10 30 5 KREL HEAT TRACE NOTE 23 19 1 10 10 20 9 A 15 1/2 12 12 20 15 ACE ONLY 0.0 - </td <td>PHASE A: 13 KVA PHASE D: 24 KVA PHASE C: 226 KVA TOTAL: 653 KVA DEMAND 89 AMP IDEMAND: BEREAKER. IDEMAND: CAT: 053 KVA DEMAND: 89 AMP IDEMAND: 89 AMP CKT: 05 W 6 C KVA DESCRIPTION OKT 2 20 12 12 12 0.2 VAV-U9 THRU L22 2 4 20 12 12 12 15 UH 124 4 4 6 20 12 12 12 10 SECURITY POWER SUPPLY 6 8 8 20 10 0 1 10 HOTBOX HEATER 10 10 12 25 10 0 3/4 20 14 16 25 10 0 3/4 20 14 16 25 10 14/4 10 10 10 10 10 10 10 10 10</td> <td>EQUIPMENT 45.08 IO08 KITCHEN EQUIP. 0.00 IO08 SPECIAL EQ. 0.00 IO08 258 OF LARGEST HVAC/MOTOR TOTAL DEMAND TOTAL DEMAND I CKT DESCRIPTION I REC CORI 3 DOOR OPERATOR IOOA 5 DOOR OPERATOR IOOA 5 DOOR OPERATOR IOOA 7 FLOOR REC IOO 9 REC IOO 11 TV REC IOO 12 REC IO3 13 REC IO3 14 TV REC IO0 15 REC IO3 16 REC IO3 17 REC IO3E 19 REC IO3E 21 REC IO3E 21 REC IO3E 22 REC IO3E 23 REC IO3E 24 REC IO3L 33 REC IO3L 34 REC IO3L 35 CTR TOP REC IO3L 36 CTR TOP REC IO3L <td>$\begin{array}{c c c c c c c c c c c c c c c c c c c$</td><td>PHASE Bi 548 I PHASE Ci 44 I TOTALi 50 I DEMAND 360 / 120/208V, 3 PHASE, 4 WI 1/2 0.5 1/2 0.5 1/2 0.5 1/2 0.5 1/2 0.5 1/2 0.5 1/2 0.5 1/2 0.5 1/2 0.5 1/2 0.5 1/2 0.5 1/2 0.5 1/2 0.7 1/2 0.7 1/2 0.7 1/2 0.7 1/2 0.7 1/2 0.5 1/2 0.5 1/2 0.5 1/2 0.4 1/2 0.2 1/2 0.3 1/2 0.4 1/2 0.2 1/2 0.3 1/2 0.4 1/2 0.5</td></td>	PHASE A: 13 KVA PHASE D: 24 KVA PHASE C: 226 KVA TOTAL: 653 KVA DEMAND 89 AMP IDEMAND: BEREAKER. IDEMAND: CAT: 053 KVA DEMAND: 89 AMP IDEMAND: 89 AMP CKT: 05 W 6 C KVA DESCRIPTION OKT 2 20 12 12 12 0.2 VAV-U9 THRU L22 2 4 20 12 12 12 15 UH 124 4 4 6 20 12 12 12 10 SECURITY POWER SUPPLY 6 8 8 20 10 0 1 10 HOTBOX HEATER 10 10 12 25 10 0 3/4 20 14 16 25 10 0 3/4 20 14 16 25 10 14/4 10 10 10 10 10 10 10 10 10	EQUIPMENT 45.08 IO08 KITCHEN EQUIP. 0.00 IO08 SPECIAL EQ. 0.00 IO08 258 OF LARGEST HVAC/MOTOR TOTAL DEMAND TOTAL DEMAND I CKT DESCRIPTION I REC CORI 3 DOOR OPERATOR IOOA 5 DOOR OPERATOR IOOA 5 DOOR OPERATOR IOOA 7 FLOOR REC IOO 9 REC IOO 11 TV REC IOO 12 REC IO3 13 REC IO3 14 TV REC IO0 15 REC IO3 16 REC IO3 17 REC IO3E 19 REC IO3E 21 REC IO3E 21 REC IO3E 22 REC IO3E 23 REC IO3E 24 REC IO3L 33 REC IO3L 34 REC IO3L 35 CTR TOP REC IO3L 36 CTR TOP REC IO3L <td>$\begin{array}{c c c c c c c c c c c c c c c c c c c$</td> <td>PHASE Bi 548 I PHASE Ci 44 I TOTALi 50 I DEMAND 360 / 120/208V, 3 PHASE, 4 WI 1/2 0.5 1/2 0.5 1/2 0.5 1/2 0.5 1/2 0.5 1/2 0.5 1/2 0.5 1/2 0.5 1/2 0.5 1/2 0.5 1/2 0.5 1/2 0.5 1/2 0.7 1/2 0.7 1/2 0.7 1/2 0.7 1/2 0.7 1/2 0.5 1/2 0.5 1/2 0.5 1/2 0.4 1/2 0.2 1/2 0.3 1/2 0.4 1/2 0.2 1/2 0.3 1/2 0.4 1/2 0.5</td>	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	PHASE Bi 548 I PHASE Ci 44 I TOTALi 50 I DEMAND 360 / 120/208V, 3 PHASE, 4 WI 1/2 0.5 1/2 0.5 1/2 0.5 1/2 0.5 1/2 0.5 1/2 0.5 1/2 0.5 1/2 0.5 1/2 0.5 1/2 0.5 1/2 0.5 1/2 0.5 1/2 0.7 1/2 0.7 1/2 0.7 1/2 0.7 1/2 0.7 1/2 0.5 1/2 0.5 1/2 0.5 1/2 0.4 1/2 0.2 1/2 0.3 1/2 0.4 1/2 0.2 1/2 0.3 1/2 0.4 1/2 0.5
COLS 63.90 IOOS 63.90 -EATER 0.00 IOOS 0.00 NOTES NT 0.00 IOOS 0.00 I SEE SPECIFICATIONS EQUP. 0.00 65% 0.00 3. 4. EQUP. 0.00 65% 0.00 3. 4. ARGEST HVAC/MOTOR 8.31 4. 4. EMAND 73.97 5. 5. EL LIB DESCRPTION KVA C G W CB CKT LER B-1 0.7 1/2 12 12 20 1 LER CONTROLS 2.4 3/4 10 10 30 5 REEL HEAT TRACE NOTE 2,3 19 1 10 10 20 9 CNET ROUTER 0.5 1/2 12 12 20 1 4 15 1/2 12 12 13 5 12	PHASE A: 213 KVA PHASE D: PHASE D: 224 KVA PHASE C: PHASE C: 226 KVA DEMAND DEMAND 89 AMP Ilonger, 3 PHASE, 4 WIRE CKT CB W 6 C KVA DESCRPTION CKT 2 20 12 12 12 12 12 12 12 12 14 4 6 2 20 12 12 12 0.2 VAV-U9 THRU 122 2 4 20 12 12 10 SECURITY POWER SUPPLY 6 8 0 0 1 10 HOTBOX HEATER 8 0 14 4 2 12 12 10 SECURITY POWER SUPPLY 6 8 0 10 10 HOTBOX HEATER 8 10 20 14 12 12 12 12 12 12 12 12 12 12 12 10 14 14 14 14 14 14 14 14 14 12 12 1	EQUIPMENT 45.08 IO05 KITCHEN EQUIP, 0.00 IO05 SPECIAL EQ. 0.00 IO05 258. OF LARGEST HVAC/MOTOR TOTAL DEMAND I TOTAL DEMAND I I I CKT DESCRIPTION I I I REC CORI I I I 3 DOOR OPERATOR IOOA I I I 5 DOOR OPERATOR IOOA I I I 7 FLOOR REC IOO I I I I 9 REC IOI I I I I I 1000R OPERATOR IOOA I	45.08 I. SEE SPECIFICATIONS 0.00 2. 0.00 3. 0.00 4. 129.62 5. KVA C G W CB CKT CKT CB W G CKT CKT CB W G OKT CKT CKT CB W G	PHASE Bi 518 1 PHASE Ci 44 1 TOTAL: 50 1 DEMAND 360 / C KVA DESCRIPTION 0 V2 0.5 V2 0.7 S REC 105 V2 0.7 V2 0.5 V2 0.7 V2 0.5 V2 0.7 V2 0.7 V2 0.7 V2 0.7 V2 0.7 V2 0.7 V2 0.5 V2 0.7 V2 0.5 V4V-10.12.14 V2 0.2 VAV-13.17.48.MO.11 V2 0.2 VAV-13.17.48.MO.11 V2 0.3 <tr< td=""></tr<>
DOLS 63.90 DODS 63.90 HEATER 0.00 IOOS 0.00 HEATER 0.00 IOOS 0.00 NT 0.00 IOOS 0.00 IEQUP. 0.00 655 0.00 2. EC. TO PROVIDE SHUNT TRI EG. 0.00 IOOS 0.00 3. 4. ZEMAND 73.97 5. 5.	PHASE A: 13 KVA PHASE B: PHASE D: 224 KVA PHASE C: PHASE C: 226 KVA TOTAL: DEMAND 89 AMP ISO/208V, 3 PHASE, 4 WIPE CKT CB W G C KVA DESCRPTION OKT 2 20 12 12 1/2 1/2 4 20 12 12 1/2 1/2 4 20 12 12 1/2 1/2 4 20 10 11 10 HOTBOX HEATER 8 10 20 10 01 1 10 HOTBOX HEATER 8 10 10 10 HOTBOX HEATER 8 10 10 10 HOTBOX HEATER 8 10 20 10 01 1 10 10 HOTBOX HEATER 10 12 12 25 10 0 3/4 20 HP-123, FC-123 16 18 2P 10 20 18 20 25 10 0 3/4 20 HP-28, FC-28 20 22 2P 10 20 22 24 25 10 0 3/4 20 HP-28, FC-28 20 22 2P 10 20 22 26 2P 10 20 22 <td>EQUIPMENT 45.08 IO05 KITCHEN EQUIP, 0.00 IO05 SPECIAL EQ. 0.00 IO05 255. OF LARGEST HVAC/MOTOR TOTAL DEMAND I TOTAL DEMAND I I I CKT DESCRIPTION I I I REC CORI I I I 3 DOOR OPERATOR IOOA I I 5 DOOR OPERATOR IOOA I I 7 FLOOR REC IOO I I 9 REC IOI I I 15 REC IOI I I 16 REC IO3 I I 17 REC IO3E I I 18 REC IO3E I I 19 REC IO3E <td< td=""><td>45.08 I SEE SPECIFICATIONS 0.00 2. 3. $3.$ $3.$ $3.$ 0.00 4. 12962 5. $5.$ $5.$ KVA C G W CB CKT CKT CB W G 0.00 4. 12962 5. $5.$ <td< td=""><td>PHASE Bi 5L8 PHASE Ci 44 TOTALi 150 DEMAND 360 / C KVA DESCRIPTION 0 V2 0.5 V2 0.5 V2 0.5 V2 0.5 V2 0.5 V2 0.5 V2 0.7 S REC 105 V2 0.7 V2 0.5 V2 0.7 V2 0.5 V2 0.5 V2 0.5 V2 0.5 V3 VAV-13J.7J.8J.0.J.I V2</td></td<></td></td<></td>	EQUIPMENT 45.08 IO05 KITCHEN EQUIP, 0.00 IO05 SPECIAL EQ. 0.00 IO05 255. OF LARGEST HVAC/MOTOR TOTAL DEMAND I TOTAL DEMAND I I I CKT DESCRIPTION I I I REC CORI I I I 3 DOOR OPERATOR IOOA I I 5 DOOR OPERATOR IOOA I I 7 FLOOR REC IOO I I 9 REC IOI I I 15 REC IOI I I 16 REC IO3 I I 17 REC IO3E I I 18 REC IO3E I I 19 REC IO3E <td< td=""><td>45.08 I SEE SPECIFICATIONS 0.00 2. 3. $3.$ $3.$ $3.$ 0.00 4. 12962 5. $5.$ $5.$ KVA C G W CB CKT CKT CB W G 0.00 4. 12962 5. $5.$ <td< td=""><td>PHASE Bi 5L8 PHASE Ci 44 TOTALi 150 DEMAND 360 / C KVA DESCRIPTION 0 V2 0.5 V2 0.5 V2 0.5 V2 0.5 V2 0.5 V2 0.5 V2 0.7 S REC 105 V2 0.7 V2 0.5 V2 0.7 V2 0.5 V2 0.5 V2 0.5 V2 0.5 V3 VAV-13J.7J.8J.0.J.I V2</td></td<></td></td<>	45.08 I SEE SPECIFICATIONS 0.00 2. 3. $3.$ $3.$ $3.$ 0.00 4. 12962 5. $5.$ $5.$ KVA C G W CB CKT CKT CB W G 0.00 4. 12962 5. $5.$ <td< td=""><td>PHASE Bi 5L8 PHASE Ci 44 TOTALi 150 DEMAND 360 / C KVA DESCRIPTION 0 V2 0.5 V2 0.5 V2 0.5 V2 0.5 V2 0.5 V2 0.5 V2 0.7 S REC 105 V2 0.7 V2 0.5 V2 0.7 V2 0.5 V2 0.5 V2 0.5 V2 0.5 V3 VAV-13J.7J.8J.0.J.I V2</td></td<>	PHASE Bi 5L8 PHASE Ci 44 TOTALi 150 DEMAND 360 / C KVA DESCRIPTION 0 V2 0.5 V2 0.5 V2 0.5 V2 0.5 V2 0.5 V2 0.5 V2 0.7 S REC 105 V2 0.7 V2 0.5 V2 0.7 V2 0.5 V2 0.5 V2 0.5 V2 0.5 V3 VAV-13J.7J.8J.0.J.I V2
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DOLS 63.90 DOIS 63.90 PEATER 0.00 DOIS 0.00 NOTES INT 0.00 DOIS 0.00 NOTES EQUP 0.00 658 0.00 3. LARGEST HVAC/MOTOR 8.31 4. ZEMAND 73.97 5. EQUP 0.00 NOTE 2.3 4. ZEMAND 73.97 5. 5. EER BH 0.7 1/2 12 12 20 1 LER BH- 0.7 1/2 12 12 20 3 LER DH 0.7 1/2 12 12 20 3 LER CONTROLS 2.4 3/4 10 10 20 7 EHEAT TRACE <note 2.3<="" td=""> 19 1 10 10 20 7 St25 10 1/2 12 12 20 13 ACE ONLY 0.0 - - 7 7<td>PHASE A: 213 KVA PHASE D: 226 KVA PHASE C: 226 KVA TOTAL: 663 KVA DEMAND 89 AMP ISO/208V, 3 PHASE, 4 WIRE CKT CB W 6 C KVA DEMAND S9 AMP ISO/208V, 3 PHASE, 4 WIRE CKT CB W 6 C KVA DESCRPTION CKT 2 20 12 1/2 0.2 VAV-UP THRU 122 2 4 20 12 1/2 CKT 6 20 12 1/2 1/2 CKT 6 20 12 1/2 1/2 CKT 6 20 12 1/2 1/2 1/2 1/2 6 20 10 1 1/2 1/2 1/2 12 20 10 1 1/2 1/2 1/2 1/2 12 20 0 1 1/2 1/2 1/2 1/2 12 20</td><td>EQUIPMENT 45.08 1008 KITCHEN EQUIP. 0.00 658 SPECIAL EQ. 0.00 1008 258 OF LARGEST HVAC/MOTOR TOTAL DEMAND TOTAL DEMAND OKT DESCRIPTION 1 1 REC CORI 3 DOOR OPERATOR 100A 5 DOOR OPERATOR 100A 5 7 FLOOR REC 100 1 8 REC 100 1 9 REC 100 1 10 TV REC 100 1 11 TV REC 100 1 12 REC 103 1 13 REC 100 1 14 TV REC 100 1 15 REC 103 1 16 REC 103 1 17 REC 103 1 18 REC 103 1 21 REC 103 1 22 REC 103 1 23 REC 103 1 24 REC 103 1 <</td><td>45.08 I. SEE SPEOFICATIONS 0.00 2. 0.00 3. 0.00 4. 129.62 5. KVA C G W CB CKT CKT CB W G 0.00 4. 2 20 12 12 20 12 12 0.00 1/2 12 12 20 3 4 20 12 12 10 1/2 12 12 20 3 4 20 12 12 10 1/2 12 12 20 3 4 20 12 12 10 1/2 12 12 20 1 12 20 12 12 10 10 10 20 20 12 12 12 12 12 11 1/2 12 12 20 12 12 12 12 12 12 12 12 12 12 12 12 12 12</td><td>PHASE Bi 548 i PHASE Ci 44 i TOTAL: 50 i DEMAND 360 / Itorial: 50 i Itorial:</td></note>	PHASE A: 213 KVA PHASE D: 226 KVA PHASE C: 226 KVA TOTAL: 663 KVA DEMAND 89 AMP ISO/208V, 3 PHASE, 4 WIRE CKT CB W 6 C KVA DEMAND S9 AMP ISO/208V, 3 PHASE, 4 WIRE CKT CB W 6 C KVA DESCRPTION CKT 2 20 12 1/2 0.2 VAV-UP THRU 122 2 4 20 12 1/2 CKT 6 20 12 1/2 1/2 CKT 6 20 12 1/2 1/2 CKT 6 20 12 1/2 1/2 1/2 1/2 6 20 10 1 1/2 1/2 1/2 12 20 10 1 1/2 1/2 1/2 1/2 12 20 0 1 1/2 1/2 1/2 1/2 12 20	EQUIPMENT 45.08 1008 KITCHEN EQUIP. 0.00 658 SPECIAL EQ. 0.00 1008 258 OF LARGEST HVAC/MOTOR TOTAL DEMAND TOTAL DEMAND OKT DESCRIPTION 1 1 REC CORI 3 DOOR OPERATOR 100A 5 DOOR OPERATOR 100A 5 7 FLOOR REC 100 1 8 REC 100 1 9 REC 100 1 10 TV REC 100 1 11 TV REC 100 1 12 REC 103 1 13 REC 100 1 14 TV REC 100 1 15 REC 103 1 16 REC 103 1 17 REC 103 1 18 REC 103 1 21 REC 103 1 22 REC 103 1 23 REC 103 1 24 REC 103 1 <	45.08 I. SEE SPEOFICATIONS 0.00 2. 0.00 3. 0.00 4. 129.62 5. KVA C G W CB CKT CKT CB W G 0.00 4. 2 20 12 12 20 12 12 0.00 1/2 12 12 20 3 4 20 12 12 10 1/2 12 12 20 3 4 20 12 12 10 1/2 12 12 20 3 4 20 12 12 10 1/2 12 12 20 1 12 20 12 12 10 10 10 20 20 12 12 12 12 12 11 1/2 12 12 20 12 12 12 12 12 12 12 12 12 12 12 12 12 12	PHASE Bi 548 i PHASE Ci 44 i TOTAL: 50 i DEMAND 360 / Itorial: 50 i Itorial:
COLS 63.90 IOOS 63.90 IEATER 0.00 IOOS 0.00 NOTES INT 0.00 IOOS 0.00 I. SEE SPECIFICATIONS IEQUP 0.00 655 0.00 2. EC. TO PROVIDE SHUNT TRUNCK IEQUP 0.00 655 0.00 3. LARGEST HVAC/MOTOR 8.31 4. DESCRIPTION KVA C G W CB CKT LER BH 0.7 V2 I2 I2 20 1 LER BH 0.7 V2 I2 I2 20 3 LIER CONTROLS 2.4 3/4 IO IO 30 5 REEL HEAT TRACE NOTE 23 I9 I IO IO 20 7 E HEAT TRACE NOTE 23 I9 I IO IO 20 9 4 I5 V2 I2 I2 20 IS SIZ5 IO V2	PHASE A: $\frac{1}{23}$ KVA PHASE D: $\frac{1}{24}$ KVA PHASE D: $\frac{1}{226}$ KVA PHASE D: $\frac{1}{226}$ KVA PHASE D: $\frac{1}{226}$ KVA DEMAND $\frac{1}{92}$ AWP IDD (VI) CONSTRUCTION IDD (VI) DEMAND $\frac{1}{92}$ AWP CONSTRUCTION IDD (VI) DI (VI) DEMAND QCT A 20 IDD (VI) IDD (VI) IDD (VI) IDD (VI) A 20 IDD (VI)	EQUIPMENT 45.08 IOOS KITCHEN EQUIP. 0.00 655 SPECIAL EQ. 0.00 IOOS 255 OF LARGEST HVAC/MOTOR TOTAL DEMAND I TOTAL DEMAND I REC CORI I 1 REC CORI I I 3 DOOR OPERATOR IOOA 5 DOOR OPERATOR IOOA 5 DOOR OPERATOR IOOA I I 7 FLOOR REC IOO I I 9 REC IOI I I 10 REC IO3 I I 17 REC IO3 I I 18 REC IO3 I I 19 REC IO3E I I 21 REC IO3E I I 22 REC IO3E I I 23 REC IO3E I I 24 REC IO3E I I 33 REC IO3L I I 34 REC IO3L I	45.08 I SEE SPEOFICATIONS 0.00 2 3 3 3 0.00 3. 3 3 3 12962 5 5 5 5 5 KVA C G W CB OKT OKT CB W G 0.00 4. 12262 5 5 5 5 5 5 5 5 5 5 5 5 5 5 6 20 12	PHASE Bi 548 1 PHASE Ci 44 1 TOTAL: 50 1 DEMAND 360 / C KVA DESCRIPTION 0 1/2 0.5 E REC 105 1/2 0.5 N REC 105 1/2 0.7 S REC 107 1/2 0.5 N REC 107 1/2 0.5 STE SIGN N 1/2 0.2 VAV-13/JJAUOJI VAV-13/JJAUOJI 1/2 0.2 STE SIGN STE SIGN 1 0.5 STE SIGN STE SIGN 1 0.5
OLS 6390 IOOS 6390 EATER O.OO IOOS O.OO NOTES NT O.OO IOOS O.OO I. SEE SPECIFICATIONS EQUP. O.OO IOOS O.OO 3. ARGEST HVAC/MOTOR 8.31 4. EMAND 73.97 5. DESCRPTION KVA C G W CB OKT ER P-1 O.7 V2 I2 I2 20 1 ER P-2 O.7 V2 I2 I2 20 1 LER CONTROLS 2.4 3/4 IO IO 30 5 REL HEAT TRACE NOTE 2.3 I9 I IO IO 20 7 LHEAT TRACE NOTE 2.3 I9 I IO IO 20 9 NET ROUTER 0.5 V2 I2 I2 20 I5 GE ONLY O.O -	PHASE A: 23 KVA PHASE D: 224 KVA PHASE C: 226 KVA TOTAL: 653 KVA DEMAND 89 AMP IZO/208V, 3 PHASE, 4 WIRE CKT CB W 6 C KVA DESORPTION CKT 2 20 12 12 1/2 0/2 VAV-19 THRU 12/2 2 4 20 12 12 1/2 1/2 U SECURITY POWER SUPPLY 6 6 20 12 12 1/2 1/3 UH 12/4 4 6 20 10 10 11 10 HOTBOX HEATER 8 10 20 10 00 1 10 HOTBOX HEATER 8 10 20 10 00 1 10 HOTBOX HEATER 8 10 20 10 00 1 10 HOTBOX HEATER 8 10 20 10 00 1 10 HOTBOX HEATER 8 10 20 10 0 3/4 20 HP-23, FC-22 12 14 2P 10 20 14 16 25 10 10 3/4 20 HP-28, FC-28 20 12 2 2P 10 20 26 28 40 8 10 3/4 24 HP-A, FC-A 28 30 2P 8 24 30 30 2P 8 24 30 32 2 0.0 SPACE ONLY 32 34 0.0 SPACE ONLY 32 38 20 0.0 SPACE ONLY 34 36 0.0 SPACE ONLY	EQUIPMENT 45.08 IOOS KITCHEN EQUIP. 0.00 655 SPECIAL EQ. 0.00 IOOS 255 OF LARGEST HVAC/MOTOR TOTAL DEMAND I TOTAL DEMAND I REC CORI I 1 REC CORI I I 3 DOOR OPERATOR IOOA I I 5 DOOR OPERATOR IOOA I I 7 FLOOR REC IOO I I 9 REC IOO I I 1 REC IO3 I I 1 REC IO3 I I 9 REC IO3 I I 1 REC IO3E I I 18 REC IO3E I I 19 REC IO3E I I 21 REC IO3E I I 22 REC IO3E I I 23 REC IO3E I I 24 REC IO3E I I </td <td>45.08 I SEE SPEOFICATIONS 0.00 2 3 3 3 0.00 4 1 1 1 1 12962 5 5 5 5 5 5 KVA C G W CB OKT OKT CB W G 0.7 3/4 10 10 20 1 2 20 12 12 10 1/2 12 12 20 5 6 20 12 12 10 1/2 12 12 20 5 6 20 12 12 0.4 3/4 10 10 20 7 8 20 12 12 0.4 3/4 10 10 20 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12</td> <td>PHASE Bi 548 H PHASE Ci 44 H TOTAL: 50 H DEMAND 360 A C KVA DESCRIPTION C 1/2 0.5 E REC 105 1/2 0.5 N REC 105 1/2 0.7 S REC 107 1/2 0.5 N REC 107 1/2 0.5 N REC 107 1/2 0.5 N REC 107 1/2 0.5 E REC 107 1/2 0.1 U-1-2 100A U-1-2 100A 1/2 0.2 VAV-13J.7J.B.J.D.J.II U/2 1 0.5 SITE SIGN SITE SIGN 1 0.5 SITE SIGN SPACE ONLY - 0.0</td>	45.08 I SEE SPEOFICATIONS 0.00 2 3 3 3 0.00 4 1 1 1 1 12962 5 5 5 5 5 5 KVA C G W CB OKT OKT CB W G 0.7 3/4 10 10 20 1 2 20 12 12 10 1/2 12 12 20 5 6 20 12 12 10 1/2 12 12 20 5 6 20 12 12 0.4 3/4 10 10 20 7 8 20 12 12 0.4 3/4 10 10 20 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12	PHASE Bi 548 H PHASE Ci 44 H TOTAL: 50 H DEMAND 360 A C KVA DESCRIPTION C 1/2 0.5 E REC 105 1/2 0.5 N REC 105 1/2 0.7 S REC 107 1/2 0.5 N REC 107 1/2 0.5 N REC 107 1/2 0.5 N REC 107 1/2 0.5 E REC 107 1/2 0.1 U-1-2 100A U-1-2 100A 1/2 0.2 VAV-13J.7J.B.J.D.J.II U/2 1 0.5 SITE SIGN SITE SIGN 1 0.5 SITE SIGN SPACE ONLY - 0.0



D

В

А

4 5 6

27 TE 29 TE 31 Rt 33 E 35 C 37 SF 39 SF 41 SF

СКТ

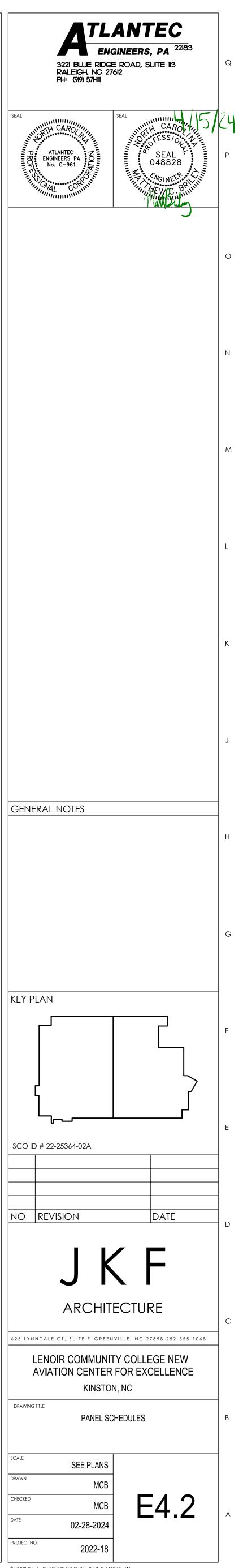
13 F 15 F 17 T

DESCRIP CONT. LC RECEPTA MTRS/CC HEATS WATER H EQUIPME KITCHEN SPECIAL 25% OF L TOTAL D PAN

CKT	[DESCRIPTION	4	KVA	С	G	×	СВ	CKT	C	жт	СВ	W	G	С	KVA	DESCRIPTION
	IT BLDG S	IGN	-	19	1/2	12	12	20	1		2	20	12	12	1/2	1.6	LTS IOUO3,O3A-M
3 6	EXTERIOR E	BLDG LTS		14	3/4	ю	ю	20	3		4	20	12	12	1/2	15	LTS 105,107
5 E	EXTERIOR F	POLE LTS		0.3	1	12	12	20	5		6	20	12	12	1/2	1.4	LTS 102,104
7 8	EXTERIOR E	BOLLARD LT	5	0.4	1	12	12	20	7		8	20	12	12	1/2	u	LTS 106,108
9 1	.TS 100, 100	DA		0.8	1/2	12	12	20	9		ю	-	1			0.0	SPACE ONLY
1	CAN LTS C	ORI-COR3		0.5	1/2	12	12	20	11		12	-	ł			0.0	SPACE ONLY
13 1	INEAR LTS	CORI-COR3	•	0.5	1/2	12	12	20	13		14					0.0	SPACE ONLY
15	SPACE ONL	_Y		0.0					15		16		-			0.0	SPACE ONLY
17 \$	SPACE ONL	_Y		0.0			1	-	17		18	-	1			0.0	SPACE ONLY
19	SPACE ONL	_Y		0,0	-		1	-	19	1	20	-	1			0.0	SPACE ONLY
21	SPACE ONL	_Y		0,0			1	-	21		22	-	1	-		0.0	SPACE ONLY
23	SPACE ONL	_Y		0.0			-		23		24		1	1		0.0	SPACE ONLY
25	SPARE			0,0			-	20	25		26	20	1	1		0.0	SPARE
27	SPARE			0,0				20	27		28	20	1	ł		0.0	SPARE
29	SPARE			0.0				20	29		30	20				0.0	SPARE
					1												
DESC	RIPTION	CONNECTED		DEMAND				VUM E		ΖE						SURFACE N	
		KVA	FACTOR	KVA	-	MAIN										NEMA I ENK	
	LOAD	11.17	125%	13.96	4	18 K I	MINIML	ja ak	RAT	NG						GROUND BA	AR
	PTACLE	0.00	100%/50%	0.00	4												
	COOLS	0.13	100%	0.13	4												
HEAT		0.00	100%	0.00													
	R HEATER	0.00	100%	0.00	NOTE	-											CONNECTED LOADS
	MENT	0.00	100%	0.00		e spe	:CIFIC	ATION	S								PHASE A: 55 K
	EN EQUIP.	0.00	65%	0.00	2.												PHASE B: 3.6 H
SPEC	AL EQ.	0,00	100%	0.00	3.												PHASE CI 2.2
25% C	F LARGES	T HVAC/MO	<u>ror</u>	0.00	4.												TOTAL: IL3
	L DEMAND			14.10	5.												DEMAND 17 A

															_		
	L1A														120/20	08V, 3 PHASE, 4 W	/IRE
D	DESCRIPTION	1	KVA	C	G	W	СВ	CKT	CKT	СВ	W	G	С	KVA		DESCRIPTION	CKT
FACP 123		NOTE 3	0.5	1/2	12	12	20	1	2	20	12	12	1/2	10	NOTE 2	VENDING COR3	2
3DA 123		NOTE 3	0.5	1/2	12	12	20	3	4	20	12	12	1/2	10	NOTE 2	VENDING COR3	4
3DA 123		NOTE 3	0.5	1/2	12	12	20	5	6	20	12	12	1/2	10	NOTE 2	VENDING COR3	6
REC 123			0.2	1/2	12	12	20	7	8	20	12	12	1/2	0.9		REC 109	8
REC 124			0.2	1/2	12	12	20	9	ю	20	12	12	1/2	0.9		REC 109	ю
ZEC 125			0.7	1/2	12	12	20	11	12	20	12	12	1/2	05		REC 10	12
ZEC & FAUC	CETS 121		0.6	1/2	12	12	20	B	14	20	12	12	1/2	O.7		REC 10	4
REC & FAUC			0.6	1/2	12	12	20	15	16	20	12	12	1/2	0.9		REC 10	16
OILETS 19,1			0.5	1/2	12	12	20	17	18	20	12	12	1/2	0.5		REC III	
	RC PUMP P	-1 120	0.5	1/2	12	12	20	19	20	20	12	12	1/2	0.2		FLIGHT SIM REC	-
ZEC 119-122			0.7	1/2	12	12	20	21	22	20	Ю	i0	3/4	0.2		W REC 13	
TELECOM Q			0,4	1/2	12	12	20	23	24	20	ю	ю	3/4	0.2		W REC 13	
TELECOM Q			0,4	1/2	12	12	20	25	24	20	ю	ю Ю	3/4	0.2		W REC 13	
TELECOM Q			0.4	1/2	12	12	20	27	28	20	ю	ю Ю	3/4	0.2	NOTE 2	W CORD REEL 113	
TELECOM Q				1/2	12	12			30	20		<u>ю</u>	3/4			W CORD REEL 113	-
			0.4				20	29			ю		5/4	0.2	NOTE 2		
REC COR3	<u> </u>		0.9	1/2	12	12	20	31	32	50	6	ю		4.2		W 50A REC 113	
EWC COR 3		NOTE 2	0.5	1/2	12	12	20	33	34	2P	6			4.2			34
CTR TOP RE	EC COR3		0.2	1/2	12	12	20	35	36	20	Ю	Ю	3/4	0.7		EXTERIOR REC	
SPARE			0.0				20	37	38	20	12	12	1/2	01	NOTE 3	SPRINKLER BELL	
SPARE			0.0				20	39	40	20				0.0		SPARE	
SPARE			0.0				20	41	42	20				0.0		SPARE	42
				1													
RIPTION (CONNECTED		DEMAND					aus si	ZE						MOUNTING		
	KVA	FACTOR	KVA	ļ	MAIN	LUGS	ONLY	•						NEMA I EN	ICLOSURE		
LOAD	0.00	125%	0.00					RATI	NG					GROUND E			
PTACLE	11.34	100%/50%	10.67														
COOLS	0.25	100%	0.25	1													
5	0.00	100%	0.00	1													
RHEATER	0.25	100%	0.25	NOTE	s											CONNECTED LOADS	
MENT	14,42	100%	14.42	-	 E SPE			5									KVA
EN EQUIP.	0.00	65%						-	EAKER.								KVA
	0.00			1													
	000			13. E.		PROV		UUK-U	n prov	ISION.							KVA
AL EQ.	0.00	100%		1													
AL EQ. F LARGEST	0.00 THVAC/MO		0.00	4. 5.												TOTAL: 26.3 DEMAND 71	
AL EQ. F LARGEST DEMAND	F HVAC/MO		0.00	4.											120/20	DEMAND 71	AMP
ALEQ. FLARGEST DEMAND			0.00 25.59	4.											120/20	DEMAND 71 DEMAND 71	AMP /IRE
ALEQ. FLARGEST DEMAND	LID		0.00 25.59 KVA	4. 5.	G	W				CB	W	2	C	KVA	120/20	DEMAND 71 DBV, 3 PHASE, 4 W DESCRIPTION	AMP /IRE
ALEQ. FLARGEST DEMAND	LID DESCRIPTION		0.00 25.59 KVA 1.5	4. 5. C V2	12	12	20	1	2	20	12	12	1/2	0.4	120/20	DEMAND 71 DBV, 3 PHASE, 4 W DESCRIPTION E QUAD REC 108	AMP /IRE OKT 2
NEL DEMAND	LID DESCRIPTION D6 EC 106		0.00 25.59 KVA 1.5 0.4	4. 5. C V2 V2	12 12	12 12	20 20	1 3	2	20 20	12 12	12 12	1/2 1/2	0.4 0.4	120/20	DEMAND 71 DBV, 3 PHASE, 4 W DESCRIPTION E QUAD REC 108 E QUAD REC 108	AMP /IRE CKT 2 4
ALEQ. FLARGEST DEMAND	L1D DESCRIPTION D6 EC 106 ? REC 106		0.00 25.59 KVA 15 0.4 0.2	4. 5. V2 V2 V2	12 12 12	12 12 12	20 20 20	1 3 5	2 4 6	20 20 20	12 12 12	12 12 12	1/2 1/2 1/2	0.4 0.4 0.4	120/20	DEMAND 71 DBV, 3 PHASE, 4 W DESCRIPTION E QUAD REC 108 E QUAD REC 108 E QUAD REC 108	AMP /IRE CKT 2 4 6
ALEQ. FLARGEST DEMAND	L1D DESCRIPTION D6 <u>5C 106</u> ? REC 106 ? REC 106		0.00 25.59 KVA 15 0.4 0.2 0.2	4. 5. V2 V2 V2 V2	12 12 12 12	12 12 12 12	20 20 20 20	1 3 5 7	2 4 6 8	20 20 20 20	12 12 12 12	12 12 12 12	1/2 1/2 1/2 1/2	0.4 0.4 0.4 0.4	120/20	DEMAND 71 DBV, 3 PHASE, 4 W DESCRIPTION E QUAD REC 108 E QUAD REC 108 E QUAD REC 108 E QUAD REC 108	AMP /IRE CKT 2 4 6 8
ALEQ. FLARGEST DEMAND	L1D DESCRIPTION D6 C 106 REC 106 REC 106 REC 106		0.00 25.59 KVA 15 0.4 0.2 0.2 0.2	4. 5. V2 V2 V2 V2 V2 V2	12 12 12 12 12 12	12 12 12 12 12 12	20 20 20 20 20	1 3 5 7 9	2 4 6 8 Ю	20 20 20 20 20	12 12 12 12 12 12	12 12 12 12 12 12	/2 /2 /2 /2 /2	0.4 0.4 0.4 0.4 0.4	120/20	DEMAND 71 DBV, 3 PHASE, 4 W DESCRIPTION E QUAD REC 108 E QUAD REC 108 E QUAD REC 108 E QUAD REC 108 N QUAD REC 108	AMP /IRE CKT 2 4 6 8 10
ALEQ. FLARGEST DEMAND	L1D DESCRIPTION 06 C 106 REC 106 REC 106 REC 106 REC 106		0.00 25.59 KVA 15 0.4 0.2 0.2 0.2 0.2	4. 5. V2 V2 V2 V2 V2 V2 V2 V2	12 12 12 12 12 12 12	12 12 12 12 12 12 12	20 20 20 20 20 20 20	1 3 5 7 9 11	2 4 6 8 10 12	20 20 20 20 20 20 20	12 12 12 12 12 12 12 12 12	12 12 12 12 12 12 12	 1/2 	0.4 0.4 0.4 0.4 0.4 0.4	120/20	DEMAND 71 DEV, 3 PHASE, 4 W DESCRIPTION E QUAD REC 108 E QUAD REC 108 E QUAD REC 108 E QUAD REC 108 N QUAD REC 108 N QUAD REC 108	AMP /IRE CKT 2 4 6 8 10 12
ALEQ. FLARGEST DEMAND	L1D DESCRIPTION D6 EC 106 P REC 106 P REC 106 P REC 106 P REC 106 P REC 106 P REC 106		0.00 25.59 KVA 1.5 0.4 0.2 0.2 0.2 0.2 0.2 0.2	4. 5. V2 V2 V2 V2 V2 V2 V2 V2 V2 V2	12 12 12 12 12 12 12 12 12	12 12 12 12 12 12 12 12 12	20 20 20 20 20 20 20 20	1 3 5 7 9 11 13	2 4 6 8 10 12 14	20 20 20 20 20 20 20 20	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	12 12 12 12 12 12 12 12 12	V2 V2 V2 V2 V2 V2 V2 V2 V2 V2	0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.2	120/20	DEMAND 71 DEV, 3 PHASE, 4 W DESCRIPTION E QUAD REC 108 E QUAD REC 108 E QUAD REC 108 E QUAD REC 108 N QUAD REC 108 N QUAD REC 108 N QUAD REC 108 N QUAD REC 108	AMP /IRE CKT 2 4 6 8 10 12 14
NEL DEMAND	L1D DESCRIPTION 06 CC 106 P REC 106 P REC 106 P REC 106 P REC 106 P REC 106 P REC 106 C 106		0.00 25.59 KVA I.5 0.4 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2	4. 5. V2 V2 V2 V2 V2 V2 V2 V2 V2 V2 V2 V2	12 12 12 12 12 12 12 12 12 12	12 12 12 12 12 12 12 12 12 12	20 20 20 20 20 20 20 20 20	 3 5 7 9 1 3 5	2 4 6 8 10 12 14 14	20 20 20 20 20 20 20 20 20	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	12 12 12 12 12 12 12 12 12 12	V2 V2 V2 V2 V2 V2 V2 V2 V2 V2 V2	0.4 0.4 0.4 0.4 0.4 0.4 0.2 0.2		DEMAND 71 DESCRIPTION E QUAD REC 108 E QUAD REC 108 E QUAD REC 108 E QUAD REC 108 N GFI REC 108 FLOOR QUAD REC 108	AMP /IRE CKT 2 4 6 8 10 12 14 16
ALEQ. FLARGEST DEMAND DEMAND NEL D DH DOOR IC N QUAD RE N CTR TOP N QUAD RE QUAD RE QUAD RE	L1D DESCRIPTION DESCRIPTION D6 EC 106 PREC 106 PREC 106 PREC 106 PREC 106 PREC 106 C 106 C 106 C 106		0.00 25.59 KVA I.5 0.4 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2	4. 5. V2 V2 V2 V2 V2 V2 V2 V2 V2 V2 V2 V2 V2	12 12 12 12 12 12 12 12 12 12 12	12 12 12 12 12 12 12 12 12 12 12 12	20 20 20 20 20 20 20 20 20 20	 3 5 7 9 1 13 15 17	2 4 6 8 10 12 14 16 18	20 20 20 20 20 20 20 20 20 20 20	12 12 12 12 12 12 12 12 12 12 12 12 12	12 12 12 12 12 12 12 12 12 12 12 12	V2	0.4 0.4 0.4 0.4 0.4 0.4 0.2 0.2 0.4 0.4		DEMAND 71 DEV, 3 PHASE, 4 W DESCRIPTION E QUAD REC 108 E QUAD REC 108 E QUAD REC 108 N GFI REC 108 FLOOR QUAD REC 108 FLOOR QUAD REC 108	AMP /IRE CKT 2 4 6 8 0 12 14 16 18
AL EQ. F LARGEST DEMAND DEMAND DEMAND DEMAND D D D D D D D D D D D D D	L1D DESCRIPTION D6 EC 106 PREC 106 PREC 106 PREC 106 PREC 106 C 106 C 106 C 106 C 106 C 106 C 106		0.00 25.59 KVA I.5 0.4 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2	4. 5. V2 V2 V2 V2 V2 V2 V2 V2 V2 V2 V2 V2 V2	12 12 12 12 12 12 12 12 12 12 12 12	12 12 12 12 12 12 12 12 12 12 12 12 12	20 20 20 20 20 20 20 20 20 20 20 20	1 3 5 7 9 11 13 15 17 19	2 4 6 8 10 12 14 14 16 18 20	20 20 20 20 20 20 20 20 20 20 20 20	12 12 12 12 12 12 12 12 12 12 12 12 12 1	12 12 12 12 12 12 12 12 12 12 12 12 12 1	V2 V2 V2 V2 V2 V2 V2 V2 V2 V2 V2 V2 V2 V	0.4 0.4 0.4 0.4 0.4 0.4 0.2 0.4 0.4 0.2		DEMAND 71 DEV, 3 PHASE, 4 W DESCRIPTION E QUAD REC 108 E QUAD REC 108 E QUAD REC 108 N QUAD REC 108 N QUAD REC 108 N QUAD REC 108 N GFI REC 108 FLOOR QUAD REC 108 FLOOR QUAD REC 108 S REC 113	AMP /IRE CKT 2 4 6 8 10 12 14 16 18 20
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AL EQ. F LARGEST DEMAND DEMAND DEMAND DH DOOR IC V QUAD RE V CTR TOP V C	L1D DESCRIPTION D6 EC 106 P REC 106 P REC 106 P REC 106 P REC 106 C 106 C 106 C 106 C 106 C 106 C 106 C 106 C 106		0.00 25.59 KVA I.5 0.4 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2	4. 5. V2 V2 V2 V2 V2 V2 V2 V2 V2 V2 V2 V2 V2	12 12 12 12 12 12 12 12 12 12 12 12	12 12 12 12 12 12 12 12 12 12 12 12 12	20 20 20 20 20 20 20 20 20 20 20 20	1 3 5 7 9 11 13 15 17 19	2 4 6 8 10 12 14 14 16 18 20	20 20 20 20 20 20 20 20 20 20 20 20	12 12 12 12 12 12 12 12 12 12 12 12 12 1	12 12 12 12 12 12 12 12 12 12 12 12 12 1	V2 V2 V2 V2 V2 V2 V2 V2 V2 V2 V2 V2 V2 V	0.4 0.4 0.4 0.4 0.4 0.4 0.2 0.4 0.4 0.2	120/20	DEMAND 71 DEV, 3 PHASE, 4 W DESCRIPTION E QUAD REC 108 E QUAD REC 108 E QUAD REC 108 N QUAD REC 108 N QUAD REC 108 N QUAD REC 108 N GFI REC 108 FLOOR QUAD REC 108 FLOOR QUAD REC 108 S REC 113	AMP /IRE CKT 2 4 6 8 10 12 14 16 18 20 22
AL EQ. F LARGEST DEMAND DEMAND DEMAND DH DOOR IC V QUAD RE V CTR TOP V C	L1D DESCRIPTION D6 EC 106 P REC 106 P REC 106 P REC 106 P REC 106 C 106 C 106 C 106 C 106 C 106 C 106 C 106 C 106		0.00 25.59 KVA 1.5 0.4 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2	4. 5. V2 V2 V2 V2 V2 V2 V2 V2 V2 V2 V2 V2 V2	12 12 12 12 12 12 12 12 12 12 12 12 12	12 12 12 12 12 12 12 12 12 12 12 12 12 1	20 20 20 20 20 20 20 20 20 20 20 20 20 2	1 3 5 7 9 11 13 15 17 19 21	2 4 6 8 10 12 14 16 18 20 22	20 20 20 20 20 20 20 20 20 20 20 20 20 2	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	12 12 12 12 12 12 12 12 12 12 12 12 12 1	V2 V3 V4	0.4 0.4 0.4 0.4 0.4 0.2 0.4 0.4 0.2 0.4 0.2 0.2 0.2		DEMAND 71 DEV, 3 PHASE, 4 W DESCRIPTION E QUAD REC 108 E QUAD REC 108 E QUAD REC 108 N QUAD REC 108 N QUAD REC 108 N QUAD REC 108 N GFI REC 108 FLOOR QUAD REC 108 FLOOR QUAD REC 108 S REC 113 S REC 113	AMP /RE CKT 2 4 6 8 10 12 14 16 18 20 22 24
AL EQ. F LARGEST DEMAND DEMAND DEMAND DEMAND CIR TOP V CIR TOP	L1D DESCRIPTION D6 C 106 P REC 106 P REC 106 P REC 106 P REC 106 C 106		0.00 25.59 KVA 15 0.4 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2	4. 5. V2 V2 V2 V2 V2 V2 V2 V2 V2 V2 V2 V2 V2	12 12 12 12 12 12 12 12 12 12 12 12 12 1	12 12 12 12 12 12 12 12 12 12 12 12 12 1	20 20 20 20 20 20 20 20 20 20 20 20 20 2	1 3 5 7 9 1 13 15 17 19 21 23	2 4 6 8 10 12 14 16 18 20 22 22 24	20 20 20 20 20 20 20 20 20 20 20 20 20 2	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	12 12 12 12 12 12 12 12 12 12 12 12 12 1	V2 V2 V2 V2 V2 V2 V2 V2 V2 V2 V2 3/4 3/4 3/4	0.4 0.4 0.4 0.4 0.4 0.4 0.2 0.4 0.4 0.2 0.2 0.2 0.2		DEMAND 71 DEVAND 71 DESCRIPTION E QUAD REC 108 E QUAD REC 108 E QUAD REC 108 E QUAD REC 108 E QUAD REC 108 N QUAD REC 108 N QUAD REC 108 FLOOR QUAD REC 108 FLOOR QUAD REC 108 S REC 113 S REC 113 S CORD REEL REC 113	AMP /RE CKT 2 4 6 8 10 12 14 16 18 20 22 24 26
ALEQ. FLARGEST DEMAND DEMAND DEMAND DEMAND CIRCOP V QUAD RE V CTR TOP V CTR TOP V CTR TOP V CTR TOP V CTR TOP V CTR TOP V QUAD RE QUAD RE	L1D DESCRIPTION D6 C 106 REC 106 REC 106 REC 106 REC 106 REC 106 C		0.00 25.59 KVA 15 0.4 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2	4. 5. V2 V2 V2 V2 V2 V2 V2 V2 V2 V2 V2 V2 V2	12 12 12 12 12 12 12 12 12 12 12 12 12 1	12 12 12 12 12 12 12 12 12 12 12 12 12 1	20 20 20 20 20 20 20 20 20 20 20 20 20 2	1 3 5 7 9 11 13 15 17 19 21 23 25	2 4 6 8 10 12 14 16 18 20 22 24 24 26	20 20 20 20 20 20 20 20 20 20 20 20 20 2	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	12 12 12 12 12 12 12 12 12 12 12 12 12 1	V2 V3 V4 3/4 3/4 3/4	0.4 0.4 0.4 0.4 0.4 0.2 0.2 0.4 0.2 0.2 0.2 0.2 0.2 0.2	NOTE 2	DEMAND 71 DEVAND 71 DESCRIPTION E QUAD REC 108 E QUAD REC 108 E QUAD REC 108 E QUAD REC 108 E QUAD REC 108 N QUAD REC 108 N QUAD REC 108 FLOOR QUAD REC 108 FLOOR QUAD REC 108 S REC 113 S CORD REEL REC 113 S REC 113	AMP CKT 2 4 6 8 10 12 14 16 18 20 22 24 26 28
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ALEQ. FLARGEST DEMAND DEMAND DEMAND DEMAND DEMAND CTR DOH DOOR IC V QUAD RE V CTR TOP V QUAD RE C QUAD RE V V QUAD RE V V V V V V V V V V V V V V V V V V V	L1D DESCRIPTION D6 C 106 REC 106 REC 106 REC 106 REC 106 REC 106 REC 106 REC 106 C 106 C 106 C 106 C 106 C 106 C 106 C 108 C 1		0.00 25.59 KVA 15 0.4 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2	4. 5. V2 V2 V2 V2 V2 V2 V2 V2 V2 V2 V2 V2 V2	12 12 12 12 12 12 12 12 12 12 12 12 12 1	12 12 12 12 12 12 12 12 12 12 12 12 12 1	20 20 20 20 20 20 20 20 20 20 20 20 20 2	1 3 5 7 9 II I3 I5 I7 19 21 23 25 27 29 31 33	2 4 6 8 10 12 14 16 18 20 22 24 24 26 28 30 32 34	20 20 20 20 20 20 20 20 20 20 20 20 20 2	8 8 8 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	12 12 12 12 12 12 12 12 12 12 12 12 12 1	V2 3/4 3/4 3/4 3/4 3/4	0.4 0.4 0.4 0.4 0.4 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2	NOTE 2	DEMAND 71 DESCRIPTION E QUAD REC 108 E QUAD REC 108 N QUAD REC 108 N QUAD REC 108 N QUAD REC 108 FLOOR QUAD REC 108 FLOOR QUAD REC 108 FLOOR QUAD REC 108 FLOOR QUAD REC 108 S REC 113 S CORD REEL REC 113 S CORD REEL REC 113 S CORD REEL REC 113 S SOA REC 113	AMP /RE CKT 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34
ALEQ. FLARGEST DEMAND DEMAND DEMAND DEMAND VEL D D VEL D D VEL D D VEL D D VEL D D VEL D D VEL D D VEL D D VEL D D VEL D D VEL D D VEL D D VEL D D VEL D D VEL D D VEL D D VEL D D D D C T T D D VEL D D D D C T T D D VEL D D D D C T T D D VEL D D D D C T T D D VEL D D D D C T T D D VEL D D D D C T T D D VEL T D D VEL T D D VEL T D D VEL T D D VEL T D D VEL T D D VEL T D D D D C T T D D D D C T T D D D D C T T D D D D C T T D D D D E C D D D D E C D D D D E C D D D D E C D D D D E C D D D D E C D D D D E C D D D D E C D D D D D E C D D D D D D D D D D D D D	L1D DESCRIPTION D6 C 106 REC 106 REC 106 REC 106 REC 106 REC 106 REC 106 REC 106 C 106 C 106 C 106 C 106 C 106 C 106 C 108 C 1		0.00 25.59 KVA 15 0.4 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2	4. 5. V2 V2 V2 V2 V2 V2 V2 V2 V2 V2 V2 V2 V2	12 12 12 12 12 12 12 12 12 12 12 12 12 1	12 12 12 12 12 12 12 12 12 12 12 12 12 1	20 20 20 20 20 20 20 20 20 20 20 20 20 2	1 3 5 7 9 II I3 I5 I7 19 21 23 25 27 29 31 33 35	2 4 6 8 10 12 14 16 18 20 22 24 24 26 28 30 32 34 36	20 20 20 20 20 20 20 20 20 20 20 20 20 2	3 3 <td>12 12 12 12 12 12 12 12 12 12 12 12 12 1</td> <td>V2 V2 3/4 3/4 3/4 3/4 3/4 </td> <td>0,4 0,4 0,4 0,4 0,4 0,2 0,2 0,2 0,2 0,2 0,2 0,2 0,2 0,2 0,2</td> <td>NOTE 2</td> <td>DEMAND 71 DESCRIPTION E QUAD REC 108 E QUAD REC 108 N QUAD REC 108 N QUAD REC 108 N QUAD REC 108 N QUAD REC 108 FLOOR QUAD REC 108 FLOOR QUAD REC 108 FLOOR QUAD REC 108 S REC 113 S CORD REEL REC 113 S CORD REEL REC 113 S CORD REEL REC 113 S SOA REC 113 S S</td> <td>AMP /RE CKT 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36</td>	12 12 12 12 12 12 12 12 12 12 12 12 12 1	V2 3/4 3/4 3/4 3/4 3/4	0,4 0,4 0,4 0,4 0,4 0,2 0,2 0,2 0,2 0,2 0,2 0,2 0,2 0,2 0,2	NOTE 2	DEMAND 71 DESCRIPTION E QUAD REC 108 E QUAD REC 108 N QUAD REC 108 N QUAD REC 108 N QUAD REC 108 N QUAD REC 108 FLOOR QUAD REC 108 FLOOR QUAD REC 108 FLOOR QUAD REC 108 S REC 113 S CORD REEL REC 113 S CORD REEL REC 113 S CORD REEL REC 113 S SOA REC 113 S S	AMP /RE CKT 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36
AL EQ. F LARGEST DEMAND DEMAND DEMAND DEMAND VEL D V QUAD RE V CTR TOP V QUAD RE S QUAD RE S QUAD RE S QUAD RE S SINK REC S AFEAIRE F S PARE	L1D DESCRIPTION D6 C 106 REC 106 REC 106 REC 106 REC 106 REC 106 REC 106 REC 106 C 106 C 106 C 106 C 106 C 106 C 106 C 108 C 1		0.00 25.59 KVA 15 0.4 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2	4. 5. V2 V2 V2 V2 V2 V2 V2 V2 V2 V2 V2 V2 V2	12 12 12 12 12 12 12 12 12 12 12 12 12 1	12 12 12 12 12 12 12 12 12 12 12 12 12 1	20 20 20 20 20 20 20 20 20 20 20 20 20 2	1 3 5 7 9 II I3 I5 I7 19 21 23 25 27 29 31 33 35 37	2 4 6 8 10 12 14 16 18 20 22 24 24 26 28 30 30 30 32 34 36 38	20 20 20 20 20 20 20 20 20 20 20 20 20 2	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	12 12 12 12 12 12 12 12 12 12 12 12 12 1	V2 3/4 3/4 3/4 3/4 3/4 3/4 3/4 3/4 3/4 3/4 3/4	0,4 0,4 0,4 0,4 0,4 0,2 0,2 0,2 0,2 0,2 0,2 0,2 0,2 0,2 0,2	NOTE 2	DEMAND 71 DEV, 3 PHASE, 4 W DESCRIPTION E QUAD REC 108 E QUAD REC 108 E QUAD REC 108 E QUAD REC 108 E QUAD REC 108 N QUAD REC 108 N QUAD REC 108 N QUAD REC 108 N QUAD REC 108 FLOOR QUAD REC 108 FLOOR QUAD REC 108 FLOOR QUAD REC 108 S REC 113 S CORD REEL REC 113 S CORD REEL REC 113 S CORD REEL REC 113 S SOAR REC 11	AMP CKT 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38
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ALEQ. ALEQ. LARGEST DEMAND DEMAND ALEARGEST DEMAND ALEARGEST DEMAND ALEARGEST	L1D DESCRIPTION D6 C 106 REC 106 REC 106 REC 106 REC 106 REC 106 REC 106 C 108 C 1	DEMAND FACTOR I255 IOOS/503 IOOS	0.00 25.59 25.59 25.59 20.2 0.4 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2	4. 5. V2 V2 V2 V2 V2 V2 V2 V2 V2 V2 V2 V2 V2	12 12 12 12 12 12 12 12 12 12 12 12 12 1	12 12 12 12 12 12 12 12 12 12 12 12 12 1	20 20 20 20 20 20 20 20 20 20 20 20 20 2	1 3 5 7 9 1 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41 US SI C RATI	2 4 6 8 10 12 14 16 18 20 22 24 24 26 28 30 32 34 36 38 40 42 22	20 20 20 20 20 20 20 20 20 20 20 20 20 2	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	12 12	V2 J2 J2 J2 J4 3/4 3/4 3/4 3/4 3/4 3/4	0,4 0,4 0,4 0,4 0,4 0,2 0,2 0,2 0,2 0,2 0,2 0,2 0,2 0,2 0,2		DEMAND 71 DESCRIPTION E QUAD REC 108 N QUAD REC 108 N QUAD REC 108 N QUAD REC 108 FLOOR QUAD REC 108 FLOOR QUAD REC 108 FLOOR QUAD REC 103 S REC 113 S CORD REEL REC 113 S CORD REEL REC 113 S SOA REC 113 S SPACE ONLY SPACE ONLY SPACE SPARE SPARE	AMP CKT 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40
AL EQ. F LARGEST DEMAND F LARGEST DEMAND F LARGEST DEMAND F LARGEST DEMAND F LARGEST CH DOOR IC V QUAD RE QUAD RE SINK REC SAFEAIRE P PARE PARE PARE PARE PARE PARE	L1D DESCRIPTION D6 C 106 REC 106 REC 106 REC 106 REC 106 REC 106 REC 106 C 108 C 1	DEMAND FACTOR 125% 100% 100%	0.00 25.59 25.59 25.59 20.2 0.4 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2	4. 5. V2 V2 V2 V2 V2 V2 V2 V2 V2 V2 V2 V2 V2	12 12 12 12 12 12 12 12 12 12 12 12 12 1	12 12 12 12 12 12 12 12 12 12 12 12 12 1	20 20 20 20 20 20 20 20 20 20 20 20 20 2	1 3 5 7 9 1 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41 C RATH	2 4 6 8 10 12 14 16 18 20 22 24 24 26 28 30 32 34 36 38 40 42 22	20 20 20 20 20 20 20 20 20 20 20 20 20 2	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	12 12	V2 J2 J2 J2 J4 3/4 3/4 3/4 3/4 3/4 3/4	0,4 0,4 0,4 0,4 0,4 0,2 0,2 0,2 0,2 0,2 0,2 0,2 0,2 0,2 0,2		DEMAND 71 DESCRIPTION E QUAD REC 108 N QUAD REC 108 N QUAD REC 108 N QUAD REC 108 FLOOR QUAD REC 108 FLOOR QUAD REC 108 FLOOR QUAD REC 108 S REC 113 S CORD REEL REC 113 S CORD REEL REC 113 S SOA REC 113 S SOAREC 113 S SPACE ONLY SPACE ONLY SPARE SPARE SPARE SPARE SPARE	AMP CKT 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42 42 52 54 54 54 54 54 54 54 54 54 54
AL EQ. F LARGEST DEMAND DEMAND DEMAND DEMAND ALEC DEMAND ALEC DEMAND ALEC DEMAND ALEC ALEC ALEC ALEC DEMAND ALEC A	L1D DESCRIPTION D6 C 106 REC 106 REC 106 REC 106 REC 106 REC 106 REC 106 C 108 C 1	DEMAND FACTOR I25% IO0%/50% IO0% IO0% IO0% IO0% IO0%	0.00 25.59 25.59 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	4. 5. V2 V2 V2 V2 V2 V2 V2 V2 V2 V2 V2 V2 V2	12 12 12 12 12 12 12 12 12 12 12 12 12 1	12 12 12 12 12 12 12 12 12 12 12 12 12 1	20 20 20 20 20 20 20 20 20 20 20 20 20 2	1 3 5 7 9 1 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41 C RATH	2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 30 32 34 36 38 40 42	20 20 20 20 20 20 20 20 20 20 20 20 20 2	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	12 12	V2 J2 J2 J2 J4 3/4 3/4 3/4 3/4 3/4 3/4	0,4 0,4 0,4 0,4 0,4 0,2 0,2 0,2 0,2 0,2 0,2 0,2 0,2 0,2 0,2		DEMAND 71 DESCRIPTION E QUAD REC 108 N QUAD REC 108 N QUAD REC 108 N QUAD REC 108 FLOOR QUAD REC 108 FLOOR QUAD REC 108 FLOOR QUAD REC 108 S REC 113 S CORD REEL REC 113 S CORD REEL REC 113 S SOA REC 113 S SPACE ONLY SPACE ONLY SPARE SPAR	AMP CKT 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42 KVA KVA
ALEQ. ALEQ. FLARGEST DEMAND DEMAND DEMAND ALECTR COOLS ALEQ. ALEQ.	L1D DESCRIPTION	DEMAND FACTOR I25% IOO% IOO% IOO% IOO% IOO% IOO% IOO%	0.00 25.59 25.59 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	4. 5. V2 V2 V2 V2 V2 V2 V2 V2 V2 V2 V2 V2 V2	12 12 12 12 12 12 12 12 12 12 12 12 12 1	12 12 12 12 12 12 12 12 12 12 12 12 12 1	20 20 20 20 20 20 20 20 20 20 20 20 20 2	1 3 5 7 9 1 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41 C RATH	2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 30 32 34 36 38 40 42	20 20 20 20 20 20 20 20 20 20 20 20 20 2	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	12 12	V2 J2 J2 J2 J4 3/4 3/4 3/4 3/4 3/4 3/4	0,4 0,4 0,4 0,4 0,4 0,2 0,2 0,2 0,2 0,2 0,2 0,2 0,2 0,2 0,2		DEMAND 71 DESCRIPTION E QUAD REC 108 N QUAD REC 108 N QUAD REC 108 N QUAD REC 108 FLOOR QUAD REC 108 FLOOR QUAD REC 108 FLOOR QUAD REC 108 S REC 113 S CORD REEL REC 113 S CORD REEL REC 113 S SOA REC 113 S SPACE ONLY SPACE ONLY SPARE SPAR	AMP CKT 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42 42 52 54 54 54 54 54 54 54 54 54 54

PANEL SCHEDULES



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CKT	DESCRIPTION	1	KVA	C	G	w	СВ	CKT		CKT	СВ	W	G	С	KVA		DESCRIPT
I NGFIRE	C 102		0.2	1/2	12	12	20	1		2	20	12	12	1/2	15		
3 W QUAD	REC 102		0.4	1/2	12	12	20	3		4	20	12	12	1/2	15		
5 W QUAD	REC 102		0.4	1/2	12	12	20	5		6	20	12	12	1/2	0.4		
7 W QUAD	REC 102		0.4	1/2	12	12	20	7		8	20	12	12	1/2	0.4		NO
9 W QUAD	REC 102		0.4	1/2	12	12	20	9		ю	20	12	12	1/2	0.4		NG
II W QUAD	REC 102		0.4	1/2	12	12	20	11		12	20	ю	ю	3/4	0.2		
13 SREC 10	2		0.5	1/2	12	12	20	В		4	20	Ю	ю	3/4	0.2		
15 SQUAD	REC 102		0.4	1/2	12	12	20	15		6	20	Ю	ю	3/4	0.2	NOTE 2	S CORD
17 SSINK R	EC 102,104	NOTE 2	0.4	1/2	12	12	20	17		ଷ	20	Ю	ю	3/4	0.2	NOTE 2	S CORD
19 SREC 10	4		0.5	1/2	12	12	20	19		20	1				0.0		
21 S QUAD	REC 104		0.4	1/2	12	12	20	21		22	ł		1		0.0		
23 E QUAD	REC 104		0.4	1/2	12	12	20	23	[24	1				0.0		
25 E QUAD	REC 104		0.4	1/2	12	12	20	25		26	ł		1		0.0		
27 E QUAD	REC 104		0.4	1/2	12	12	20	27		28	ł		1		0.0		
29 E QUAD	REC 104		0.4	1/2	12	12	20	29		30	ł		-		0.0		
31 E QUAD	REC 104		0.4	1/2	12	12	20	31		32	I				0.0		
33 N QUAD	REC 104		0.4	1/2	12	12	20	33		34	1		-		0.0		
35 N QUAD	REC 104		0.4	1/2	12	12	20	35		36	1				0.0		
37 SPARE			0.0				20	37		38	20				0.0		
39 SPARE			0.0				20	39		40	20				0.0		
41 SPARE			0.0				20	41		42	20				0.0		
DESCRIPTION	CONNECTED		DEMAND	1	200	a Mini	мм	aus s	17E	:						MOUNTING	
	KVA	FACTOR	KVA							•					NEMAIEN		
CONT. LOAD	0.00	125%	0.00				-		ING	\$					GROUND E		
RECEPTACLE	8.46	100%/50%	8.46														
MTRS/COOLS	3.00	100%	3,00	-													
HEATS	0.00	100%	0.00	1													
		100%	0.00	NOTE	S												CONNECT
EQUIPMENT	0.00	100%	0,00		-	ECIFIC		s									PHASE A
KITCHEN EQUI		65%	0.00					FCIBE	2E/								PHASE B
SPECIAL EQ.	0.00	100%	0.00	3.													PHASE C
25% OF LARGE			0.00	4.													TOTAL
TOTAL DEMAN			1.46	5.													DEMAND

СКТ	· I	DESCRIPTION	1	KVA	С	G	W	СВ	CKT	CKT	ß	W	U	С	KVA	DESCRIPTION
1	CAN LTS 2	00		0.9	1/2	12	12	20	1	2	-		ł		0.0	SPACE ONLY
3	PENDANT L	TS 200		2.3	1/2	12	12	20	3	4	-		ł	-	0,0	SPACE ONLY
5	CAN LTS C	OR4,COR5		0.5	1/2	12	12	20	5	6					0,0	SPACE ONLY
7	LINEAR LTS	COR4,COR	5	0.5	1/2	12	12	20	7	8					0.0	SPACE ONLY &
9	LTS 202-20	4,206,206A		1.3	1/2	12	12	20	9	ю					0.0	SPACE ONLY 1
11	LTS 201,205	,207,209		16	1/2	12	12	20	11	12					0.0	SPACE ONLY I
13	LTS 208,210	,212,214		1.3	1/2	12	12	20	13	14					0,0	SPACE ONLY 1
15	LTS 211,213			15	1/2	12	12	20	15	16					0.0	SPACE ONLY I
17	LTS 113			2.9	1/2	12	12	20	17	18					0.0	SPACE ONLY 1
19	LTS 113			2.9	1/2	12	12	20	19	20					0.0	SPACE ONLY 2
21	SPACE ON	<u> </u>		0,0			-	-	21	22					0,0	SPACE ONLY 2
	SPACE ON			0,0				-	23	24					0.0	SPACE ONLY 2
	SPACE ON			0.0					25	26					0.0	SPACE ONLY 2
27	SPACE ON	_Y		0.0					27	28					0.0	SPACE ONLY 2
29	SPACE ON			0,0					29	30					0,0	SPACE ONLY 3
31		- ·		0,0					31	32					0,0	SPACE ONLY 3
	SPACE ON			0.0					33	34					0.0	SPACE ONLY 3
	SPACE ON	_Y		0,0					35	36					0,0	SPACE ONLY 3
	SPARE			0,0				20	37	38	20				0,0	SPARE 3
	SPARE			0,0				20	39	40	20				0,0	SPARE 4
41	SPARE			0.0				20	41	42	20				0.0	SPARE 4
DES	CRIPTION	CONNECTED	DEMAND	DEMAND]	225 A		/UM E	ius siz	Æ					SURFACE N	IOUNTING
		KVA	FACTOR	KVA		MAIN	LUGS	ONLY	•						NEMA I ENC	LOSURE
	IT. LOAD	15.64	125%	19.56	1	18 K	MINIML	im aic		NG					GROUND BA	
EC	EPTACLE	0.00	100%/50%	0.00												
ATR	S/COOLS	0.00	100%	0.00	1											
EA	TS	0.00	100%	0.00	1											
NAT	ER HEATER	0.00	100%	0.00	NOTE	S										CONNECTED LOADS
EQU	IPMENT	0.00	100%	0.00	I. SE	e spe	ECIFIC/	ATION	S							PHASE A: 5.5 K
	HEN EQUIP.	0.00	65%		2.											PHASE B: 5.1 K
SPE	CIAL EQ.	0.00	100%	0.00	3.											PHASE C: 5 K
25%	OF LARGES	T HVAC/MO	FOR	0.00	4.											TOTAL: 15.6 K
TOT	AL DEMAND			19.56	5.											DEMAND 24 A

PANEL	L2B														120/208V, 3 PHASE, 4	WIRE
CKT I	DESCRIPTION	1	KVA	С	G	W	СВ	CKT	СКТ	СВ	W	G	С	KVA	DESCRIPTION	CKT
1 11-11			0.6	1/2	12	12	20	1	2	20	12	12	1/2	O,I	VAV-2,16 THRU 2.	.18 2
3 TH-2			0.6	1/2	12	12	20	3	4	20	2	12	1/2	12	EF-7 2	18 4
5 TH-3			0.6	1/2	12	12	20	5	6	20	2	12	1/2	12	EF-8 2	18 6
7 TH-4			0.6	1/2	12	12	20	7	8	20	12	12	1/2	0.5	AIR COMPRESSOR CONTROL	.S 8
9 TH-5	-		0.6	1/2	12	12	20	9	ю		-		-	0.0	SPACE ONL	<u> </u>
II TH-6			0,6	1/2	12	12	20	11	12		-		-	0,0	SPACE ONL	<u>Y 12</u>
13 SPACE ON	_Y		0.0				-	В	14					0.0	SPACE ONL	<u>.</u> Y 14
15 SPACE ON	_Y		0.0					15	16		1			0.0	SPACE ONL	-Y 16
17 SPACE ON	_Y		0.0				-	17	18		-		-	0.0	SPACE ONL	.Y 18
19 SPACE ON	_Y		0,0	-		-	-	19	20		1		-	0,0	SPACE ONL	_Y 20
21 SPACE ON	_Y		0,0					21	22		-			0,0	SPACE ONL	Y 22
23 SPACE ON	_Y		0.0	-			-	23	24	-	1		-	0.0	SPACE ONL	_Y 24
25 SPACE ON	_Y		0.0	-		1	-	25	26			1	-	0,0	SPACE ONL	Y 26
27 SPACE ON	_Y		0,0	1	-	1	1	27	28		-	1	-	0,0	SPACE ONL	Y 28
29 SPACE ON	_Y		0,0	1		1	-	29	30	-	1	1	-	0,0	SPACE ONL	Y 30
31 SPACE ON	_Y		0.0	-		-	-	31	32	-	1	-	-	0.0	SPACE ONL	Y 32
33 SPACE ON	_Y		0.0			-		33	34		1	-		0,0	SPACE ONL	_Y 34
35 SPACE ON	_Y		0,0	-		-		35	36	-	ł	-		0,0	SPACE ONL	-Y 36
37 SPARE			0,0	-			20	37	38	20	ł			0.0	SPAR	Æ 38
39 SPARE			0.0				20	39	40	20	ł			0.0	SPAR	Æ 40
41 SPARE			0.0	-			20	41	42	20	1		-	0.0	SPAR	Æ 42
	CONNECTED KVA	FACTOR	DEMAND KVA		MAIN	WGS	ONLY							SURFACE N NEMA I ENG	CLOSURE	
CONT. LOAD	0.00	125%	0.00	-	ЮK	MINIML	ja ak	C RATI	NG					GROUND BA	AR	
RECEPTACLE	0.00	100%/50%	0.00													
MTRS/COOLS	2.35	100%	2.35													
HEATS	0.00	100%	0.00													
WATER HEATER	0.00	100%	0.00	NOTE	S										CONNECTED LOADS	
EQUIPMENT	4.08	100%	4.08		e spe	CIFIC	ATION	S								<u>18 KVA</u>
<u>KITCHEN EQUIP.</u>	0.00	65%	0.00	2.												<u>23 KVA</u>
SPECIAL EQ.	0.00	100%	0.00	3.												<u>23 KVA</u>
25% OF LARGES	T HVAC/MO	TOR	0.00	4.												4 KVA
TOTAL DEMAND			6.43	5.											DEMAND	18 AMF

	1								,						1	•
CKT		DESCRIPTION	N	KVA	C	G	W	СВ	СКТ	CKT		W	G	C	KVA	DESCRIF
	REC 202		-	LI LI	1/2	12	12	20	1	2	20	12	12	1/2	0.4	PRE-WIRED
	W QUAD RE			0.4	1/2	12	12	20	3	4	20	12	12	1/2	0.4	PRE-WIRED
	W QUAD RE			0.4	1/2	12	12	20	5	6	20	12	12	1/2	0.4	PRE-WIRED
	W QUAD RE			0.4	1/2	12	12	20	7	8	20	12	12	1/2	0.4	PRE-WIRED
	W QUAD RE		1	0.4	1/2	12	12	20	9	ю	20	12	12	1/2	0,4	PRE-WIRED
	E QUAD RE			0.4	1/2	12	12	20	1	12	20	12	12	1/2	0,4	PRE-WIRED
	E QUAD RE			0.4	1/2	12	12	20	13	14	20	12	12	1/2	0.4	PRE-WIRED
	E QUAD RE		-	0,4	1/2	12	12	20	15	6	20	12	12	1/2	0.4	PRE-WIRED
	E QUAD RE		1	0.4	1/2	12	12	20	17	18	20	12	12	1/2	0.4	PRE-WIRED
	NW REC 20		-	0.7	1/2	12	12	20	19	20	20	12	12	1/2	0,4	PRE-WIRED
	OH DOOR 2			15	1/2	12	12	20	21	22	20	12	12	1/2	0.4	PRE-WIRED
	SE REC 200			0.7	1/2	12	12	20	23	24	20	12	12	1/2	0.4	PRE-WIRED
	E QUAD RE		-	0.4	1/2	12	12	20	25	26	20	12	12	1/2	0.5	RECIR
	E QUAD RE			0,4	1/2	12	12	20	27	28	20	12	12	1/2	0.5	RECIR
	S 50A REC	206		4.8	3/4	ю	8	50	29	30	20	12	12	1/2	0.5	RECIR
31	4			4.8			8	3P	31	32	20	12	12	1/2	0.5	RECIR
33				4.8			8		33	34	20	12	12	1/2	0.5	RECIR
	W 50A REC	206		4.8	3/4	ю	8	50	35	36	20	12	12	1/2	0.5	RECIR
37	4			4.8			8	3P	37	38					0.0	
39				4.8			8		39	40					0.0	
	N 50A REC	206		4.8	3/4	ю	8	50	41	42					0.0	
43	-			4.8			8	3P	43	44					0.0	
45				4.8			8		45	46					0.0	
	SPARE			0.0				20	47	48	20			-	0.0	
	SPARE		k.	0.0				20	49	50	20				0.0	
	SPARE			0,0				20	51	52	20				0.0	
53	SPARE			0.0				20	53	54	20				0.0	
DESC	CRIPTION	CONNECTED	DEMAND	DEMAND]	200	A MINI	MUM I	BUS SIZ	Έ					FLUSH MC	UNTING
		KVA	FACTOR	KVA	1	MAIN	LUGS	ONLY	•						NEMA I EN	NCLOSURE
CON	T. LOAD	0.00	125%	0.00		ЮΚΙ	MINIML	ja ak	C RATIN	IG					GROUND E	BAR
RECI	EPTACLE	10.44	100%/50%	10.22	ļ											
MTR	S/COOLS	4.67	100%	4,67												
HEA'	TS	0.00	100%	0.00												
WAT	ER HEATER	0.00	100%	0.00	NOTE	S										CONNE
EQU	PMENT	43.20	100%	43.20	I. SE	e spe	CIFIC	ATION	S							PHASE
KITC	HEN EQUIP.	0.00	65%	0.00	2.											PHASE
SPEC	CIAL EQ.	0.00	100%	0.00	3.											PHASE
25%	OF LARGES	T HVAC/MO	TOR	0.00	4.											TOTAL
TOT	AL DEMAND			58.09	5.											DEMAN

4

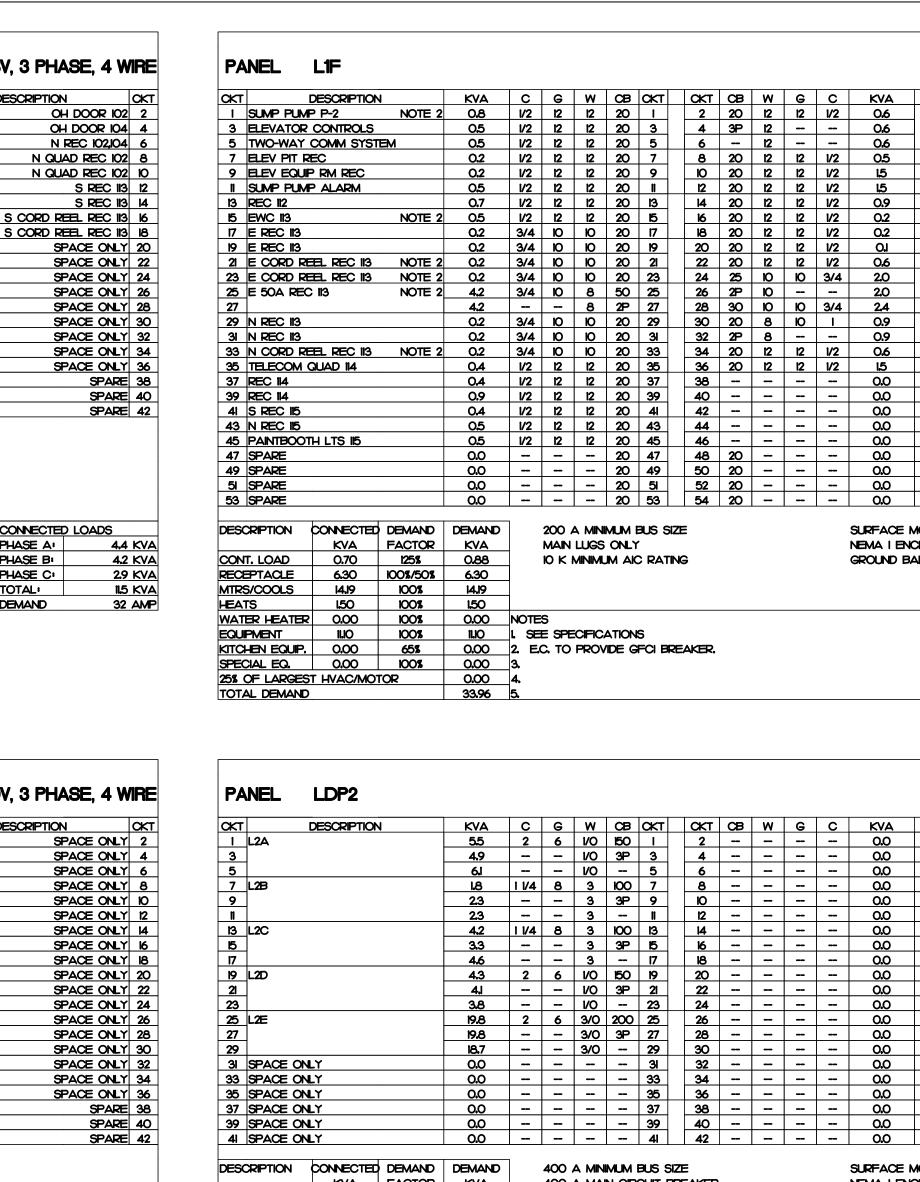
1

2

3

5

6



7

						FRUV			EANER.						
SPECIAL EQ.	0.00	100%	0.00	3.											PHASE C: 8.9 KV
5% OF LARGEST	F HVAC/MC	TOR	0.00	4.											TOTAL: 33.8 KV
OTAL DEMAND			33.96	5.											DEMAND 94 AN
PANEL	LDP2														120/208V, 3 PHASE, 4 WIR
жт с	DESCRIPTIO	N	KVA	С	G	w	СВ	CKT	СКТ	СВ	w	G	С	KVA	DESCRIPTION
		• •	5.5	2	6	vo	150		2	-	-		-	0.0	SPACE ONLY 2
3			4.9	-	-	1/0	3P	3	4					0.0	SPACE ONLY 4
5			6,1			1/0		5	6					0.0	SPACE ONLY 6
7 L2B			1.8	11/4	8	3	ю	7	8					0.0	SPACE ONLY &
9			2.3			3	3P	9	10					0.0	SPACE ONLY 10
11			2.3			3		11	12					0.0	SPACE ONLY 12
13 L2C			4.2	11/4	8	3	100	13	14					0.0	SPACE ONLY 14
15			3.3			3	3P	15	16					0.0	SPACE ONLY 16
17			4.6			3		17	18					0.0	SPACE ONLY 18
<u>19</u> L2D			4.3	2	6	1/0	150	19	20					0.0	SPACE ONLY 2
21			4,j			1/0	3P	21	22					0.0	SPACE ONLY 2
23			3.8			1/0		23	24					0.0	SPACE ONLY 24
<u>25</u> L2E			19.8	2	6	3/0	200	25	26					0.0	SPACE ONLY 20
27			19.8			3/0	3P	27	28					0.0	SPACE ONLY 28
29			18.7			3/0		29	30					0.0	SPACE ONLY 30
31 SPACE ONL			0.0					31	32					0.0	SPACE ONLY 3
33 SPACE ONL			0.0					33	34					0.0	SPACE ONLY 34
35 SPACE ONL			0.0					35	36					0.0	SPACE ONLY 30
37 SPACE ONL			0,0					37	38					0.0	SPACE ONLY 38
39 SPACE ONL			0.0					39	40					0.0	SPACE ONLY 40
4 SPACE ONL	.Y		0.0					41	42					0.0	SPACE ONLY 42
DESCRIPTION	CONNECTE	DEMAND	DEMAND]	400	AMIN	MUM	BUS SI	ZE					SURFACE N	IOUNTING
	KVA	FACTOR	KVA		400	a Ma	N CIR	Cuit B	REAKER	?				NEMA I ENC	LOSURE
CONT. LOAD	0.00	125%	0.00		22 K	MINIM	JM AK	C RATI	NG					GROUND BA	AR Contraction of the second sec
ECEPTACLE	44.82	100%/50%	27.41	4											
ATRS/COOLS	7.02	100%	7.02	4											
EATS	0.00	100%	0.00	-											
NATER HEATER	0.00	100%	0.00	NOTE	-										CONNECTED LOADS
QUIPMENT	53.78	100%	53.78		e spe	ECIFIC	ATION	S							PHASE A: 35.6 KV
ITCHEN EQUIP.	0.00	65%	0.00	2.											PHASE BI 34.5 KV
PECIAL EQ.	0.00	100%	0.00	3.											PHASE C: 35.5 KV
5% OF LARGES	T HVAC/MC	TOR	0.00	4.											TOTAL: 105.6 KV
TOTAL DEMAND			88.21	5.											DEMAND 245 AM

 20
 47
 48
 20
 -

 20
 49
 50
 20
 -

20 51 52 20 -

200 A MINIMUM BUS SIZE

10 K MINIMUM AIC RATING

MAIN LUGS ONLY

9

8

10

11

0.0

0.0

0,0

0.0

0.0

0.0

0.0

GROUND BAR

SURFACE MOUNTING

NEMA I ENCLOSURE

0.0

120/208V, 3 PHASE, 4 WIRE

PAINTBOOTH EXH FAN 2

PAINTBOOTH CONTROLS 8

N OH DOOR 116 10

E OH DOOR 16 12

EF-2 118, EF-3 117 22

HP-135, FC-135 24

ELEVATOR CAB 34

SPACE ONLY 38

SPACE ONLY 40

SPACE ONLY 42

SPACE ONLY 44

SPACE ONLY 46

CONNECTED LOADS PHASE AI 12 KVA PHASE BI 12.9 KVA

SPARE 48

SPARE 50

SPARE 52

SPARE 54

REC 113,116 14

REC 117 16

REC 118 18

VAV-15,1.6 20

SITE GATE 30

<u>UH-3 36</u>

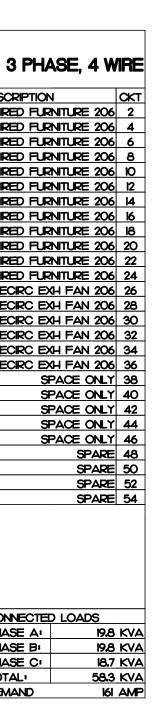
26

32

<u>EF-1 28</u>

DESCRIPTION

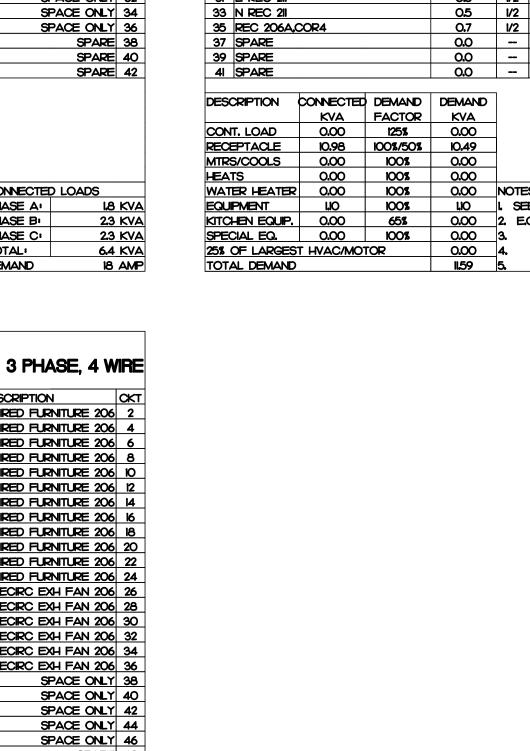
PA	NEL	L2C														120/208V, 3 PHASE, 4 WIRE
CKT	[DESCRIPTION	J	KVA	С	G	w	СВ	CKT	СКТ	СВ	w	G	С	KVA	DESCRIPTION CKT
1	NAC COR4		NOTE 2	05	1/2	12	12	20	1	2	20	12	12	1/2	O1	VAV-21 THRU 2.3 2
3	SPARE			0.0				20	3	4	20	12	12	1/2	0.2	VAV-2.4 THRU 2.9 4
5	REC PATIO			0.4	1/2	12	12	20	5	6	20	12	12	1/2	0.2	VAV-2.10 THRU 2.15 6
7	REC 200			0.5	1/2	12	12	20	7	8					0.0	SPACE ONLY 8
9	TV REC 200	2		0.5	1/2	12	12	20	9	Ю					0.0	SPACE ONLY 10
1	REC 201			แ	1/2	12	12	20	11	12					0.0	SPACE ONLY 12
B	REC 203,20	4		แ	1/2	12	12	20	13	14					0.0	SPACE ONLY 14
15	NW REC 20	5		0.7	1/2	12	12	20	15	16					0.0	SPACE ONLY 16
17	SE REC 20	5		0.7	1/2	12	12	20	17	18					0.0	SPACE ONLY 18
19	SW REC 20	7		0.7	1/2	12	12	20	19	20					0.0	SPACE ONLY 20
21	NE REC 20	7		O.7	1/2	12	12	20	21	22					0.0	SPACE ONLY 22
23	NW REC 20	9		0.7	1/2	12	12	20	23	24					0.0	SPACE ONLY 24
25	SE REC 209	9		0.7	1/2	12	12	20	25	26					0.0	SPACE ONLY 26
27	W REC 21			05	1/2	12	12	20	27	28					0.0	SPACE ONLY 28
29	SREC 21			O.7	1/2	12	12	20	29	30					0.0	SPACE ONLY 30
31	E REC 211			0.5	1/2	12	12	20	31	32					0.0	SPACE ONLY 32
33	N REC 21			0.5	1/2	12	12	20	33	34					0.0	SPACE ONLY 34
35	REC 206A.C	COR4		0.7	1/2	12	12	20	35	36					0.0	SPACE ONLY 36
37	SPARE			0.0				20	37	38	20				0.0	SPARE 38
39	SPARE			0.0				20	39	40	20				0.0	SPARE 40
41	SPARE			0.0				20	41	42	20				0.0	SPARE 42
DESC	RIPTION	CONNECTED	DEMAND	DEMAND		100 A		VUM I	BUS SI	ZE					FLUSH MOI	JNTING
		KVA	FACTOR	KVA		MAIN	LUGS	ONL	Y						NEMA I EN	CLOSURE
CON	T. LOAD	0.00	125%	0.00		ЮΚΙ	MINIM	ja Ml	C RAT	ING					GROUND B	AR
RECE	PTACLE	10.98	100%/50%	10.49												
MTRS	5/COOLS	0.00	100%	0.00												
HEAT	rs	0.00	100%	0.00												
WAT	ER HEATER	0.00	100%	0.00	NOTE	ร										CONNECTED LOADS
EQUI	PMENT	ыO	100%	ЦО	l. Se	e spe	CIFIC	ATION	I S							PHASE AI 4.2 KVA
KITC	HEN EQUIP.	0.00	65%	0.00	2. E.	с. то	PRO\	/IDE L	.00K-0	ON PROV	ISION.					PHASE B: 3.3 KVA
SPEC	XAL EQ.	0.00	100%	0.00	3.											PHASE C: 4.6 KVA
25% (OF LARGES	T HVAC/MOT	ror	0.00	4.											TOTAL: 12.1 KVA
TOT	AL DEMAND			11.59	5.											DEMAND 32 AMP



7

8

9



11

12

CKT

16

17

18

CKT	DESCRIPTION	N	KVA	C	G	W	СВ	CKT	CKT	СВ	w	G	C	KVA	DESCRIPTION
I AHU-2 SA		•	35	3/4	10	10	25	1	2	20	12	12	1/2	0.9	PENDANT LTS COR5 2
3			3.5			10	3P	3	4	20	12	12	1/2	0.9	LTS STAR A 4
5			3.5			10		5	6	20	12	12	1/2	L7	LTS 215-219, 249 6
7 AHU-2 SA	FAN 2		3.5	3/4	ю	10	25	7	8					0.0	SPACE ONLY 8
9			3.5			10	3P	9	ю					0,0	SPACE ONLY 10
11			3.5			ю		11	12					0,0	SPACE ONLY 12
13 AHU-2 RA	FAN I		1.9	1/2	12	12	15	13	14					0.0	SPACE ONLY 14
15			L9			12	3P	15	16					0.0	SPACE ONLY 16
17			1.9			12		17	18					0.0	SPACE ONLY 18
19 AHU-2 RA	FAN 2		19	1/2	12	12	15	19	20					0,0	SPACE ONLY 20
21			1.9			12	3P	21	22				-	0.0	SPACE ONLY 22
23		1.9			12		23	24					0.0	SPACE ONLY 24	
25 AIR COMPR		9,4	3/4	ю	8	50	25	26		1			0.0	SPACE ONLY 26	
27		9,4			8	ЗP	27	28		-	-		0,0	SPACE ONLY 28	
29			9.4			8	-	29	30			-		0.0	SPACE ONLY 30
31 SPACE ON	LY		0.0					31	32					0.0	SPACE ONLY 32
33 SPACE ON	LY		0.0				-	33	34				-	0.0	SPACE ONLY 34
35 SPACE ON	LY		0,0					35	36			-		0,0	SPACE ONLY 36
37 SPARE			0.0				20	37	38	20			-	0.0	SPARE 38
39 SPARE			0.0				20	39	40	20				0.0	SPARE 40
41 SPARE	-		0.0				20	41	42	20				0,0	SPARE 42
ESCRIPTION	CONNECTED	DEMAND	DEMAND	1	225 1		A 64 E	us siz	-					SURFACE N	
	KVA	FACTOR	KVA		MAIN									NEMA I EN	
ONT. LOAD	3.47	125%	4.33											GROUND BA	
ECEPTACLE	0.00	12.5%	0.00	1					V G					GROUND DA	
ITRS/COOLS	60.66	100%	60.66	1											
EATS	0.00	100%	0.00	1											
ATER HEATER		100%		NOTE											CONNECTED LOADS
QUIPMENT	0.00										PHASE A: 21 KVA				
ITCHEN EQUIP.	0.00	0.00										PHASE B: 211 KVA			
PECIAL EQ.	0.00	65% 100%	0.00	3.											
5% of larges			7.06	4.											TOTAL: 64J KVA
TOTAL DEMAND			72.06	5.											DEMAND 87 AMF

PANEL	L2A														120/20	8V, 3 PHAS	E, 4 W	/ IF
XT I	DESCRIPTIO	N	KVA	С	G	w	СВ	CKT	СКТ	СВ	W	G	С	KVA		DESCRIPTION		C
I REC 249			05	1/2	12	12	20	1	2	20	12	12	1/2	05			REC 213	-
3 REC 215-219			0.9	1/2	12	12	20	3	4	20	12	12	1/2	0.4		W QUAD		
5 REC & FAU			0,6	1/2	12	12	20	5	6	20	12	12	1/2	0.4		W QUAD		
7 REC & FAU			0.6	1/2	12	12	20	7	8	20	12	12	1/2	0.4		W QUAD		
9 TOILETS 25 II TELECOM (<u> </u>	<u> 1/2</u> 1/2	12 12	12 12	20 20	9	10	20 20	12 12	12 12	1/2 1/2	0.4		W QUAD S QUAD		
I TELECOM (0.4	1/2	12	12	20	13	12	20	12	12	V2 V2	0.4		<u> </u>		
15 TELECOM			0.4	1/2	12	12	20	15	16	20	12	12	1/2	0.4		E QUAD		
7 EWC COR5		NOTE 2	0.5	1/2	12	12	20	17	18	20	12	12	1/2	0.4				
9 REC COR5			0.9	1/2	12	12	20	19	20	20	12	12	1/2	0.4		E QUAD		
21 CTR TOP R	EC COR5		0.2	1/2	12	12	20	21	22	20	12	12	1/2	0.4		E QUAD	REC 213	
<u>23 VENDING C</u>	OR5	NOTE 2	1.0	1/2	12	12	20	23	24	20	12	12	1/2	0.4		E QUAD	REC 213	
25 VENDING C		NOTE 2	I.O	1/2	12	12	20	25	26	20	12	12	1/2	0.4		E QUAD		-
27 VENDING C	OR5	NOTE 2	1.0	1/2	12	12	20	27	28	20	12	12	1/2	0.4		E QUAD		
29 REC 214			0.9	1/2	12	12	20	29	30	20	12	12	1/2	0.4		E QUAD		
			0.2	1/2	12	12 12	20	31	32					0.0			<u>XEONLY</u>	_
<u>3 CTR TOP R</u> 5 REF 214	214	NOTE 2	<u> </u>	<u> 1/2</u> 1/2	12 12	12 12	20 20	<u>33</u> 35	34					0.0 0.0			<u>XEONLY</u> XEONLY	
57 SPARE			0.0		1Z 	1Z 	20	30	38	20				0.0		3FA(SPARE	-
9 SPARE	•		0.0				20	39	40	20		-	-	0.0			SPARE	
41 SPARE			0.0				20	4	40	20				0.0			SPARE	_
				1	1	1		,		0	1							<u> </u>
ESCRIPTION	CONNECTER	DEMAND	DEMAND	1	200	A MIN	MUM	BUS SIZ	ZE					SURFACE N	NOUNTING			
	KVA	FACTOR	KVA	1	MAIN	LUGS	ONLI	ſ						NEMA I ENO	CLOSURE			
ONT. LOAD	0.00	125%	0.00		юк	MINIM	JM AK	C RATI	NG					GROUND BA	AR			
ECEPTACLE	11.16	100%/50%	10.58	4														
IRS/COOLS	0.00	100%	0.00	4														
ATS	0.00	100%	0.00															
ATER HEATER		100%	0.00	NOTE	-			-								CONNECTED LO		
	5.40	100%	5.40	-	-			-									5.5	-
<u>TCHEN EQUIP.</u> ÆCIAL EQ.	0.00	65% 100%	<u> </u>		C, 10	PROV	NDE G		EAKER.							PHASE B: PHASE C:	4.9	-
<u>ecial eq.</u> % of larges			0.00	3.												TOTAL:	6.1 16.6	
				14													0,0	•
			<u>5.98</u>	4. 5.												DEMAND	44	
DTAL DEMAND															120/200		44	A
	L2D		15.98	5.			~			2	164	6			-	DEMAND 8V, 3 PHAS	44	 //iF
			15.98 KVA		0	W	CB 20	CKT		CB 20	W	Q	C	KVA	-	DEMAND 8V, 3 PHAS DESCRIPTION	44 E, 4 W	 //iF
PANEL KT I I REC 208	L2D		<u>15.98</u> КVА 0.7	5. 5. C 1/2	12	12	20	1	CKT 2 4	20	12	12	1/2	0.4	-	DEMAND 8V, 3 PHAS DESCRIPTION W QUAD	44 E, 4 W	///
PANEL REC 208 REC 208	L2D DESCRIPTIO		15.98 KVA		12 12		20 20	1 3	2	20 20					-	DEMAND 8V, 3 PHAS DESCRIPTION W QUAD W QUAD	44 E, 4 W REC 210 REC 210	///F
ANEL ANEL REC 208 REC 208 E QUAD RE	L2D DESCRIPTIO		15.98 KVA 0.7 0.7	5. 5. 1/2 1/2	12	12 12	20	1	2	20	12 12	12 12	1/2 1/2	0.4 0.4	-	DEMAND 8V, 3 PHAS DESCRIPTION W QUAD	44 E, 4 W REC 210 REC 210 REC 210 REC 210	
PANEL T I REC 208 REC 208 E QUAD RE 7 E QUAD RE	L2D DESCRIPTIO	N	<u>кva</u> 0.7 0.4	C 1/2 1/2 1/2	12 12 12	12 12 12	20 20 20	 3 5	2 4 6	20 20 20	12 12 12	12 12 12 12	1/2 1/2 1/2	0.4 0.4 0.4	-	DEMAND 8V, 3 PHAS DESCRIPTION W QUAD W QUAD W QUAD	44 E, 4 W REC 210 REC 210 REC 210 REC 210	
PANEL ANEL CT 1 REC 208 REC 208 E QUAD RE F QUAD RE PRE-WIRED	L2D DESCRIPTIO EC 208 EC 208 FURNITURE	N	5.98 KVA 0.7 0.7 0.4 0.4	C V2 V2 V2 V2	12 12 12 12	12 12 12 12	20 20 20 20	1 3 5 7	2 4 6 8	20 20 20 20	12 12 12 12	12 12 12 12 12	1/2 1/2 1/2 1/2	0.4 0.4 0.4 0.4	-	DEMAND 8V, 3 PHAS DESCRIPTION W QUAD W QUAD W QUAD W QUAD	44 E, 4 W REC 210 REC 210 REC 210 REC 210 REC 210 REC 210	
PANEL ANEL AREC 208 AREC 208 ARE	L2D DESCRIPTIO C 208 C 208 FURNITURE FURNITURE FURNITURE	N 208 208 208	5.98 KVA 0.7 0.7 0.4 0.4 0.4 0.4 0.4 0.4	C V2 V2 V2 V2 V2 V2 V2 V2	2 2 2 2 2 2 2 2 2	12 12 12 12 12 12 12 12 12	20 20 20 20 20 20 20 20	1 3 5 7 9 1 13	2 4 6 8 10 12 14	20 20 20 20 20 20 20 20	12 12 12 12 12 12 12 12	12 12 12 12 12 12 12 12 12 12	1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2	0.4 0.4 0.4 0.2 0.2 0.2	-	DEMAND BV, 3 PHAS DESCRIPTION W QUAD W QUAD W QUAD W QUAD E CTR TOP E CTR TOP E CTR TOP E CTR TOP	44 E, 4 W REC 210 REC 210 REC 210 REC 210 REC 210 REC 210 REC 210 REC 210	
AL DEMAND	L2D DESCRIPTIO C 208 C 208 FURNITURE FURNITURE FURNITURE FURNITURE	N 208 208 208 208 208	5.98 KVA 0.7 0.7 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4		12 12 12 12 12 12 12 12 12 12	12 12 12 12 12 12 12 12 12 12 12	20 20 20 20 20 20 20 20 20	1 3 5 7 9 11 13 15	2 4 6 8 10 12 14 14	20 20 20 20 20 20 20 20 20	12 12 12 12 12 12 12 12 12 12 12	12 12 12 12 12 12 12 12 12 12 12 12 12 1	1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2	0.4 0.4 0.4 0.2 0.2 0.2 0.2 0.2 0.4	-	DEMAND BV, 3 PHAS DESCRIPTION W QUAD W QUAD W QUAD W QUAD E CTR TOP E CTR TOP E CTR TOP	44 E, 4 W <u>REC 210</u> <u>REC 210</u>	
AL DEMAND	L2D DESCRIPTIO C 208 C 208 FURNITURE FURNITURE FURNITURE FURNITURE FURNITURE	N 208 208 208 208 208 208 208	5.98 KVA 0.7 0.7 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4	C V2	12 12 12 12 12 12 12 12 12 12 12 12	12 12 12 12 12 12 12 12 12 12 12 12	20 20 20 20 20 20 20 20 20 20	 3 5 7 9 11 13 15 17	2 4 6 8 10 12 14 16 18	20 20 20 20 20 20 20 20 20 20 20	12 12 12 12 12 12 12 12 12 12 12	12 12 12 12 12 12 12 12 12 12 12 12	1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2	0.4 0.4 0.4 0.2 0.2 0.2 0.2 0.2 0.4 0.4	-	DEMAND BV, 3 PHAS DESCRIPTION W QUAD W QUAD W QUAD W QUAD E CTR TOP E CTR TOP E CTR TOP E CTR TOP	44 E, 4 W <u>REC 210</u> <u>REC 210 <u>REC 210</u> <u>REC 210</u></u>	
AL DEMAND	L2D DESCRIPTIO C 208 C 208 FURNITURE FURNITURE FURNITURE FURNITURE FURNITURE FURNITURE	N 208 208 208 208 208 208 208 208 208 208	5.98 KVA 0.7 0.7 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4		12 12 12 12 12 12 12 12 12 12 12 12	12 12 12 12 12 12 12 12 12 12 12 12 12	20 20 20 20 20 20 20 20 20 20 20 20	1 3 5 7 9 11 13 15 17 19	2 4 6 10 12 14 16 18 20	20 20 20 20 20 20 20 20 20 20 20 20 20	12 12 12 12 12 12 12 12 12 12 12 12	12 12 12 12 12 12 12 12 12 12 12 12 12 1	1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2	0.4 0.4 0.4 0.2 0.2 0.2 0.2 0.2 0.2 0.4 0.4 0.5	-	DEMAND BV, 3 PHAS DESCRIPTION W QUAD W QUAD W QUAD W QUAD E CTR TOP E CTR TOP E CTR TOP E CTR TOP	44 E, 4 W <u>REC 210</u> <u>REC 210</u>	
AL DEMAND	L2D DESCRIPTIO C 208 FURNITURE FURNITURE FURNITURE FURNITURE FURNITURE FURNITURE FURNITURE FURNITURE	N 208 208 208 208 208 208 208 208 208 208	5.98 KVA 0.7 0.7 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4		12 12 12 12 12 12 12 12 12 12 12 12 12 1	12 12 12 12 12 12 12 12 12 12 12 12 12 1	20 20 20 20 20 20 20 20 20 20 20 20 20 2	1 3 5 7 9 1 13 15 17 19 21	2 4 6 8 10 12 14 16 18 20 22	20 20 20 20 20 20 20 20 20 20 20 20 20 2	12 12 12 12 12 12 12 12 12 12 12 12 12 1	12 12 12 12 12 12 12 12 12 12 12 12 12 1	1/2 1/2	0.4 0.4 0.4 0.2 0.2 0.2 0.2 0.2 0.2 0.4 0.4 0.5 0.4	-	DEMAND BV, 3 PHAS DESCRIPTION W QUAD W QUAD W QUAD W QUAD E CTR TOP E CTR TOP E CTR TOP E CTR TOP E CTR TOP E CTR TOP	44 E, 4 W <u>REC 210</u> <u>REC 210</u>	
AL DEMAND	L2D DESCRIPTIO C 208 FURNITURE FURNITURE FURNITURE FURNITURE FURNITURE FURNITURE FURNITURE FURNITURE FURNITURE	N 208 208 208 208 208 208 208 208 208 208	5.98 KVA 0.7 0.7 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4		12 12 12 12 12 12 12 12 12 12 12 12 12 1	12 12 12 12 12 12 12 12 12 12 12 12 12 1	20 20 20 20 20 20 20 20 20 20 20 20 20 2	1 3 5 7 9 1 13 15 17 19 21 23	2 4 6 8 10 12 14 16 18 20 22 22 24	20 20 20 20 20 20 20 20 20 20 20 20 20 2	12 12 12 12 12 12 12 12 12 12 12 12 12 1	12 12 12 12 12 12 12 12 12 12 12 12 12 1	1/2 1/2	0.4 0.4 0.4 0.2 0.2 0.2 0.2 0.2 0.2 0.4 0.4 0.5 0.4 0.4	-	DEMAND 8V, 3 PHAS DESCRIPTION W QUAD W QUAD W QUAD W QUAD E CTR TOP E CTR TOP E CTR TOP E CTR TOP E CTR TOP E CTR TOP E CTR TOP M QUAD W QUAD W QUAD	44 E, 4 W REC 210 REC 212 REC 212 REC 212 REC 212 REC 212 REC 212	
AL DEMAND	L2D DESCRIPTIO C 208 EC 208 FURNITURE FURNITURE FURNITURE FURNITURE FURNITURE FURNITURE FURNITURE FURNITURE FURNITURE	N 208 208 208 208 208 208 208 208 208 208	5.98 KVA 0.7 0.7 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4		2 	12 12 12 12 12 12 12 12 12 12 12 12 12 1	20 20 20 20 20 20 20 20 20 20 20 20 20 2	1 3 5 7 9 1 13 15 17 19 21 23 25	2 4 6 8 10 12 14 16 18 18 20 22 24 24 26	20 20 20 20 20 20 20 20 20 20 20 20 20 2	12 12 12 12 12 12 12 12 12 12 12 12 12 1	12 12 12 12 12 12 12 12 12 12 12 12 12 1	1/2 1/2	0.4 0.4 0.4 0.2 0.2 0.2 0.2 0.2 0.2 0.4 0.4 0.5 0.4 0.4 0.4	-	DEMAND 8V, 3 PHAS DESCRIPTION W QUAD W QUAD W QUAD W QUAD E CTR TOP E CTR TOP	44 E, 4 W <u>REC 210</u> <u>REC 212</u> <u>REC 212</u> <u>REC 212</u> <u>REC 212</u>	
OTAL DEMAND	L2D DESCRIPTIO C 208 C 208 FURNITURE FURNITURE FURNITURE FURNITURE FURNITURE FURNITURE FURNITURE FURNITURE FURNITURE FURNITURE FURNITURE	N 208 208 208 208 208 208 208 208 208 208	5.98 KVA 0.7 0.7 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4	C V2	12 12 12 12 12 12 12 12 12 12 12 12 12 1	12 12 12 12 12 12 12 12 12 12 12 12 12 1	20 20 20 20 20 20 20 20 20 20 20 20 20 2	1 3 5 7 9 11 13 15 17 19 21 23 25 27	2 4 6 8 10 12 14 16 18 20 22 24 24 26 28	20 20 20 20 20 20 20 20 20 20 20 20 20 2	12 12 12 12 12 12 12 12 12 12 12 12 12 1	12 12 <td>1/2 1/2</td> <td>0.4 0.4 0.4 0.2 0.2 0.2 0.2 0.2 0.4 0.4 0.4 0.4 0.4 0.4 0.4</td> <td>-</td> <td>DEMAND BV, 3 PHAS DESCRIPTION W QUAD W QUAD W QUAD W QUAD E CTR TOP E CTR TOP</td> <td>44 E, 4 W <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 212</u> <u>REC 212</u> <u>REC 212</u> <u>REC 212</u> <u>REC 212</u></td> <td></td>	1/2 1/2	0.4 0.4 0.4 0.2 0.2 0.2 0.2 0.2 0.4 0.4 0.4 0.4 0.4 0.4 0.4	-	DEMAND BV, 3 PHAS DESCRIPTION W QUAD W QUAD W QUAD W QUAD E CTR TOP E CTR TOP	44 E, 4 W <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 212</u> <u>REC 212</u> <u>REC 212</u> <u>REC 212</u> <u>REC 212</u>	
AL DEMAND	L2D DESCRIPTIO C 208 C 208 FURNITURE FURNITURE FURNITURE FURNITURE FURNITURE FURNITURE FURNITURE FURNITURE FURNITURE FURNITURE FURNITURE FURNITURE	N 208 208 208 208 208 208 208 208 208 208	5.98 KVA 0.7 0.7 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4		2 	12 12 12 12 12 12 12 12 12 12 12 12 12 1	20 20 20 20 20 20 20 20 20 20 20 20 20 2	1 3 5 7 9 1 13 15 17 19 21 23 25	2 4 6 8 10 12 14 16 18 18 20 22 24 24 26	20 20 20 20 20 20 20 20 20 20 20 20 20 2	12 12 12 12 12 12 12 12 12 12 12 12 12 1	12 12 12 12 12 12 12 12 12 12 12 12 12 1	1/2 1/2	0.4 0.4 0.4 0.2 0.2 0.2 0.2 0.2 0.2 0.4 0.4 0.5 0.4 0.4 0.4	-	DEMAND BV, 3 PHAS DESCRIPTION W QUAD W QUAD W QUAD W QUAD E CTR TOP E CTR TOP E CTR TOP E CTR TOP E CTR TOP E CTR TOP E QUAD W QUAD W QUAD E QUAD E QUAD E QUAD	44 E, 4 ₩ REC 210 REC 210 REC 210 REC 210 REC 210 REC 210 REC 210 REC 210 REC 212 REC 210 REC 212 REC 21	
AL DEMAND	L2D DESCRIPTIO C 208 C 208 FURNITURE FURNITURE FURNITURE FURNITURE FURNITURE FURNITURE FURNITURE FURNITURE FURNITURE FURNITURE FURNITURE FURNITURE FURNITURE FURNITURE FURNITURE	N 208 208 208 208 208 208 208 208 208 208	5.98 KVA 0.7 0.7 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4	C V2	12 12 12 12 12 12 12 12 12 12 12 12 12 1	12 12 12 12 12 12 12 12 12 12 12 12 12 1	20 20 20 20 20 20 20 20 20 20 20 20 20 2	1 3 5 7 9 11 13 15 17 19 21 23 25 27 29	2 4 6 8 10 12 14 16 18 20 22 24 24 26 28 30	20 20 20 20 20 20 20 20 20 20 20 20 20 2	12 12 12 12 12 12 12 12 12 12 12 12 12 1	12 12 <td>1/2 1/2</td> <td>0.4 0.4 0.4 0.2 0.2 0.2 0.2 0.2 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4</td> <td>-</td> <td>DEMAND BV, 3 PHAS DESCRIPTION W QUAD W QUAD W QUAD W QUAD E CTR TOP E CTR TOP E CTR TOP E CTR TOP E CTR TOP E CTR TOP E QUAD W QUAD W QUAD E QUAD E QUAD E QUAD E QUAD</td> <td>44 E, 4 W <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 212</u> <u>REC 212</u> <u>REC 212</u> <u>REC 212</u> <u>REC 212</u></td> <td></td>	1/2 1/2	0.4 0.4 0.4 0.2 0.2 0.2 0.2 0.2 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4	-	DEMAND BV, 3 PHAS DESCRIPTION W QUAD W QUAD W QUAD W QUAD E CTR TOP E CTR TOP E CTR TOP E CTR TOP E CTR TOP E CTR TOP E QUAD W QUAD W QUAD E QUAD E QUAD E QUAD E QUAD	44 E, 4 W <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 212</u> <u>REC 212</u> <u>REC 212</u> <u>REC 212</u> <u>REC 212</u>	
AL DEMAND	L2D DESCRIPTIO C 208 C 208 FURNITURE	N 208 208 208 208 208 208 208 208 208 208	5.98 KVA 0.7 0.7 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4	C V2	12 12	12 12	20 20 20 20 20 20 20 20 20 20 20 20 20 2	1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31	2 4 6 8 10 12 14 16 18 20 22 24 24 26 28 30 32	20 20 20 20 20 20 20 20 20 20 20 20 20 2	12 12 12 12 12 12 12 12 12 12 12 12 12 1	12 12 <td>1/2 1/2</td> <td>0.4 0.4 0.4 0.2 0.2 0.2 0.2 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.0</td> <td>-</td> <td>DEMAND BV, 3 PHAS DESCRIPTION W QUAD W QUAD W QUAD W QUAD E CTR TOP E CTR TOP E CTR TOP E CTR TOP E CTR TOP E CTR TOP E QUAD W QUAD W QUAD E QUAD E QUAD E QUAD E QUAD E QUAD E QUAD</td> <td>44 E, 4 W <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 212</u> <u>REC 212</u></td> <td></td>	1/2 1/2	0.4 0.4 0.4 0.2 0.2 0.2 0.2 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.0	-	DEMAND BV, 3 PHAS DESCRIPTION W QUAD W QUAD W QUAD W QUAD E CTR TOP E CTR TOP E CTR TOP E CTR TOP E CTR TOP E CTR TOP E QUAD W QUAD W QUAD E QUAD E QUAD E QUAD E QUAD E QUAD E QUAD	44 E, 4 W <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 212</u> <u>REC 212</u>	
AL DEMAND	L2D DESCRIPTIO C 208 C 208 FURNITURE	N 208 208 208 208 208 208 208 208 208 208	5.98 KVA 0.7 0.7 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4	C V2	12 12	12 12	20 20 20 20 20 20 20 20 20 20 20 20 20 2	1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33	2 4 6 8 10 12 14 16 18 20 22 24 24 26 28 30 32 34	20 20 20 20 20 20 20 20 20 20 20 20 20 2	12 12 12 12 12 12 12 12 12 12 12 12 12 1	12 12	1/2 1/2	0.4 0.4 0.4 0.2 0.2 0.2 0.2 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4	-	DEMAND BV, 3 PHAS DESCRIPTION W QUAD W QUAD W QUAD W QUAD E CTR TOP E CTR TOP E CTR TOP E CTR TOP E CTR TOP E CTR TOP E QUAD W QUAD W QUAD E QUAD E QUAD E QUAD E QUAD E QUAD E QUAD	44 E, 4 W <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 212</u> <u>REC 212</u>	
AL DEMAND	L2D DESCRIPTIO C 208 C 208 FURNITURE	N 208 208 208 208 208 208 208 208 208 208	5.98 KVA 0.7 0.7 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4	C V2	12 13 14 15 16 <td>12 12</td> <td>20 20 20 20 20 20 20 20 20 20 20 20 20 2</td> <td>1 3 5 7 9 13 15 17 19 21 23 25 27 29 31 33 35</td> <td>2 4 6 8 10 12 14 16 18 20 22 24 24 26 28 30 30 32 34 36</td> <td>20 20 20 20 20 20 20 20 20 20 20 20 20 2</td> <td>12 12 12 12 12 12 12 12 12 12 12 12 12 1</td> <td>12 12</td> <td>1/2 1/2</td> <td>0.4 0.4 0.4 0.2 0.2 0.2 0.2 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4</td> <td>-</td> <td>DEMAND BV, 3 PHAS DESCRIPTION W QUAD W QUAD W QUAD W QUAD E CTR TOP E CTR TOP E CTR TOP E CTR TOP E CTR TOP E CTR TOP E QUAD W QUAD W QUAD E QUAD E QUAD E QUAD E QUAD E QUAD E QUAD</td> <td>44 E, 4 W <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 212</u> <u>REC 312</u> <u>REC 312</u></td> <td></td>	12 12	20 20 20 20 20 20 20 20 20 20 20 20 20 2	1 3 5 7 9 13 15 17 19 21 23 25 27 29 31 33 35	2 4 6 8 10 12 14 16 18 20 22 24 24 26 28 30 30 32 34 36	20 20 20 20 20 20 20 20 20 20 20 20 20 2	12 12 12 12 12 12 12 12 12 12 12 12 12 1	12 12	1/2 1/2	0.4 0.4 0.4 0.2 0.2 0.2 0.2 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4	-	DEMAND BV, 3 PHAS DESCRIPTION W QUAD W QUAD W QUAD W QUAD E CTR TOP E CTR TOP E CTR TOP E CTR TOP E CTR TOP E CTR TOP E QUAD W QUAD W QUAD E QUAD E QUAD E QUAD E QUAD E QUAD E QUAD	44 E, 4 W <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 212</u> <u>REC 312</u> <u>REC 312</u>	
AL DEMAND	L2D DESCRIPTIO C 208 C 208 FURNITURE	N 208 208 208 208 208 208 208 208 208 208	5.98 KVA 0.7 0.7 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4	C V2 V2	12 12	12 13 14 15 16 17 18 19 <td>20 20 20 20 20 20 20 20 20 20 20 20 20 2</td> <td>1 3 5 7 9 13 15 17 19 21 23 25 27 29 31 33 35 37</td> <td>2 4 6 8 10 12 14 16 18 20 22 24 24 26 28 30 30 32 34 36 38</td> <td>20 20 20 20 20 20 20 20 20 20 20 20 20 2</td> <td>12 13 14 14 15 15 16 <td>12 12</td><td>1/2 1/2 <!--</td--><td>0.4 0.4 0.4 0.2 0.2 0.2 0.2 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4</td><td>-</td><td>DEMAND BV, 3 PHAS DESCRIPTION W QUAD W QUAD W QUAD W QUAD E CTR TOP E CTR TOP E CTR TOP E CTR TOP E CTR TOP E CTR TOP E QUAD W QUAD W QUAD E QUAD E QUAD E QUAD E QUAD E QUAD E QUAD</td><td>44 E, 4 W <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 212</u> <u>REC 312</u> <u>REC 312</u></td><td></td></td></td>	20 20 20 20 20 20 20 20 20 20 20 20 20 2	1 3 5 7 9 13 15 17 19 21 23 25 27 29 31 33 35 37	2 4 6 8 10 12 14 16 18 20 22 24 24 26 28 30 30 32 34 36 38	20 20 20 20 20 20 20 20 20 20 20 20 20 2	12 13 14 14 15 15 16 <td>12 12</td> <td>1/2 1/2 <!--</td--><td>0.4 0.4 0.4 0.2 0.2 0.2 0.2 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4</td><td>-</td><td>DEMAND BV, 3 PHAS DESCRIPTION W QUAD W QUAD W QUAD W QUAD E CTR TOP E CTR TOP E CTR TOP E CTR TOP E CTR TOP E CTR TOP E QUAD W QUAD W QUAD E QUAD E QUAD E QUAD E QUAD E QUAD E QUAD</td><td>44 E, 4 W <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 212</u> <u>REC 312</u> <u>REC 312</u></td><td></td></td>	12 12	1/2 1/2 </td <td>0.4 0.4 0.4 0.2 0.2 0.2 0.2 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4</td> <td>-</td> <td>DEMAND BV, 3 PHAS DESCRIPTION W QUAD W QUAD W QUAD W QUAD E CTR TOP E CTR TOP E CTR TOP E CTR TOP E CTR TOP E CTR TOP E QUAD W QUAD W QUAD E QUAD E QUAD E QUAD E QUAD E QUAD E QUAD</td> <td>44 E, 4 W <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 212</u> <u>REC 312</u> <u>REC 312</u></td> <td></td>	0.4 0.4 0.4 0.2 0.2 0.2 0.2 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4	-	DEMAND BV, 3 PHAS DESCRIPTION W QUAD W QUAD W QUAD W QUAD E CTR TOP E CTR TOP E CTR TOP E CTR TOP E CTR TOP E CTR TOP E QUAD W QUAD W QUAD E QUAD E QUAD E QUAD E QUAD E QUAD E QUAD	44 E, 4 W <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 212</u> <u>REC 312</u> <u>REC 312</u>	
AL DEMAND	L2D DESCRIPTIO C 208 FURNITURE	N 208 208 208 208 208 208 208 208	5.98 KVA 0.7 0.7 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4	C V2 V2	12 12	12 13 14 15 16 17 17 18 <td>20 20 20 20 20 20 20 20 20 20 20 20 20 2</td> <td>1 3 5 7 9 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41</td> <td>2 4 6 8 10 12 14 16 18 20 22 24 24 26 28 30 32 34 36 38 40 42</td> <td>20 20 20 20 20 20 20 20 20 20 20 20 20 2</td> <td>12 13 14 14 15 16 <td>12 12</td><td>1/2 1/2 <!--</td--><td>0.4 0.4 0.4 0.2 0.2 0.2 0.2 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4</td><td></td><td>DEMAND BV, 3 PHAS DESCRIPTION W QUAD W QUAD W QUAD W QUAD E CTR TOP E CTR TOP E CTR TOP E CTR TOP E CTR TOP E CTR TOP E QUAD W QUAD W QUAD E QUAD E QUAD E QUAD E QUAD E QUAD E QUAD</td><td>44 E, 4 W <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 212</u> <u>REC 312</u> <u>REC 312</u></td><td></td></td></td>	20 20 20 20 20 20 20 20 20 20 20 20 20 2	1 3 5 7 9 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41	2 4 6 8 10 12 14 16 18 20 22 24 24 26 28 30 32 34 36 38 40 42	20 20 20 20 20 20 20 20 20 20 20 20 20 2	12 13 14 14 15 16 <td>12 12</td> <td>1/2 1/2 <!--</td--><td>0.4 0.4 0.4 0.2 0.2 0.2 0.2 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4</td><td></td><td>DEMAND BV, 3 PHAS DESCRIPTION W QUAD W QUAD W QUAD W QUAD E CTR TOP E CTR TOP E CTR TOP E CTR TOP E CTR TOP E CTR TOP E QUAD W QUAD W QUAD E QUAD E QUAD E QUAD E QUAD E QUAD E QUAD</td><td>44 E, 4 W <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 212</u> <u>REC 312</u> <u>REC 312</u></td><td></td></td>	12 12	1/2 1/2 </td <td>0.4 0.4 0.4 0.2 0.2 0.2 0.2 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4</td> <td></td> <td>DEMAND BV, 3 PHAS DESCRIPTION W QUAD W QUAD W QUAD W QUAD E CTR TOP E CTR TOP E CTR TOP E CTR TOP E CTR TOP E CTR TOP E QUAD W QUAD W QUAD E QUAD E QUAD E QUAD E QUAD E QUAD E QUAD</td> <td>44 E, 4 W <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 212</u> <u>REC 312</u> <u>REC 312</u></td> <td></td>	0.4 0.4 0.4 0.2 0.2 0.2 0.2 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4		DEMAND BV, 3 PHAS DESCRIPTION W QUAD W QUAD W QUAD W QUAD E CTR TOP E CTR TOP E CTR TOP E CTR TOP E CTR TOP E CTR TOP E QUAD W QUAD W QUAD E QUAD E QUAD E QUAD E QUAD E QUAD E QUAD	44 E, 4 W <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 212</u> <u>REC 312</u> <u>REC 312</u>	
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OTAL DEMAND I DEMAND I REC 208 I REC 208 I REC 208 I REC 208 I REC WIRED I PRE-WIRED I SPARE	L2D DESCRIPTIO C 208 EC 208 FURNITURE FURNITUR	N 208 208 208 208 208 208 208 208	5.98 KVA 0.7 0.7 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4	C V2 V2	12 12	12 13 14 15 16 17 17 18 <td>20 20 20 20 20 20 20 20 20 20 20 20 20 2</td> <td>1 3 5 7 9 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41</td> <td>2 4 6 8 10 12 14 16 18 20 22 24 24 26 28 30 32 34 36 38 40 42</td> <td>20 20 20 20 20 20 20 20 20 20 20 20 20 2</td> <td>12 13 14 14 15 16 <td>12 12</td><td>1/2 1/2 <!--</td--><td>0.4 0.4 0.4 0.2 0.2 0.2 0.2 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4</td><td></td><td>DEMAND BV, 3 PHAS DESCRIPTION W QUAD W QUAD W QUAD W QUAD E CTR TOP E CTR TOP E CTR TOP E CTR TOP E CTR TOP E CTR TOP E QUAD W QUAD W QUAD E QUAD E QUAD E QUAD E QUAD E QUAD</td><td>44 E, 4 W <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 212</u> <u>REC 312</u> <u>REC 312</u></td><td></td></td></td>	20 20 20 20 20 20 20 20 20 20 20 20 20 2	1 3 5 7 9 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41	2 4 6 8 10 12 14 16 18 20 22 24 24 26 28 30 32 34 36 38 40 42	20 20 20 20 20 20 20 20 20 20 20 20 20 2	12 13 14 14 15 16 <td>12 12</td> <td>1/2 1/2 <!--</td--><td>0.4 0.4 0.4 0.2 0.2 0.2 0.2 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4</td><td></td><td>DEMAND BV, 3 PHAS DESCRIPTION W QUAD W QUAD W QUAD W QUAD E CTR TOP E CTR TOP E CTR TOP E CTR TOP E CTR TOP E CTR TOP E QUAD W QUAD W QUAD E QUAD E QUAD E QUAD E QUAD E QUAD</td><td>44 E, 4 W <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 212</u> <u>REC 312</u> <u>REC 312</u></td><td></td></td>	12 12	1/2 1/2 </td <td>0.4 0.4 0.4 0.2 0.2 0.2 0.2 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4</td> <td></td> <td>DEMAND BV, 3 PHAS DESCRIPTION W QUAD W QUAD W QUAD W QUAD E CTR TOP E CTR TOP E CTR TOP E CTR TOP E CTR TOP E CTR TOP E QUAD W QUAD W QUAD E QUAD E QUAD E QUAD E QUAD E QUAD</td> <td>44 E, 4 W <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 212</u> <u>REC 312</u> <u>REC 312</u></td> <td></td>	0.4 0.4 0.4 0.2 0.2 0.2 0.2 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4		DEMAND BV, 3 PHAS DESCRIPTION W QUAD W QUAD W QUAD W QUAD E CTR TOP E CTR TOP E CTR TOP E CTR TOP E CTR TOP E CTR TOP E QUAD W QUAD W QUAD E QUAD E QUAD E QUAD E QUAD E QUAD	44 E, 4 W <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 212</u> <u>REC 312</u> <u>REC 312</u>	
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DTAL DEMAND DTAL DEMAND AL DEMAND REC 208 PRE-WIRED	L2D DESCRIPTIO C 208 C 208 FURNITURE FURNITURE FURNITURE FURNITURE FURNITURE FURNITURE FURNITURE FURNITURE FURNITURE FURNITURE FURNITURE FURNITURE FURNITURE C 210 C 210	N 208 208 208 208 208 208 208 208	5.98 KVA 0.7 0.7 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4	C J V2	12 13 14 15	12 13 14 15 16 17 17 18 19 <td>20 20 20 20 20 20 20 20 20 20 20 20 20 2</td> <td>1 3 5 7 9 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41</td> <td>2 4 6 8 10 12 14 16 18 20 22 24 24 26 28 30 32 34 36 38 40 42</td> <td>20 20 20 20 20 20 20 20 20 20 20 20 20 2</td> <td>12 13 14 14 15 15 16 <td>12 12</td><td>1/2 1</td><td>0.4 0.4 0.4 0.2 0.2 0.2 0.2 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4</td><td></td><td>DEMAND BV, 3 PHAS DESCRIPTION W QUAD W QUAD W QUAD W QUAD E CTR TOP E CTR TOP E CTR TOP E CTR TOP E CTR TOP E CTR TOP E QUAD W QUAD W QUAD E QUAD E QUAD E QUAD E QUAD E QUAD E QUAD</td><td>44 E, 4 ₩ <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 212</u> <u>REC 112</u> <u>REC 11</u></td><td></td></td>	20 20 20 20 20 20 20 20 20 20 20 20 20 2	1 3 5 7 9 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41	2 4 6 8 10 12 14 16 18 20 22 24 24 26 28 30 32 34 36 38 40 42	20 20 20 20 20 20 20 20 20 20 20 20 20 2	12 13 14 14 15 15 16 <td>12 12</td> <td>1/2 1</td> <td>0.4 0.4 0.4 0.2 0.2 0.2 0.2 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4</td> <td></td> <td>DEMAND BV, 3 PHAS DESCRIPTION W QUAD W QUAD W QUAD W QUAD E CTR TOP E CTR TOP E CTR TOP E CTR TOP E CTR TOP E CTR TOP E QUAD W QUAD W QUAD E QUAD E QUAD E QUAD E QUAD E QUAD E QUAD</td> <td>44 E, 4 ₩ <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 212</u> <u>REC 112</u> <u>REC 11</u></td> <td></td>	12 12	1/2 1	0.4 0.4 0.4 0.2 0.2 0.2 0.2 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4		DEMAND BV, 3 PHAS DESCRIPTION W QUAD W QUAD W QUAD W QUAD E CTR TOP E CTR TOP E CTR TOP E CTR TOP E CTR TOP E CTR TOP E QUAD W QUAD W QUAD E QUAD E QUAD E QUAD E QUAD E QUAD E QUAD	44 E, 4 ₩ <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 212</u> <u>REC 112</u> <u>REC 11</u>	
DTAL DEMAND DTAL DEMAND ALL DEMAND ALL DEMAND KT I REC 208 REC 208 REC 208 REC 208 E QUAD RE PRE-WIRED	L2D DESCRIPTIO C 208 C 208 FURNITURE	N 208 208 208 208 208 208 208 208	5.98 KVA 0.7 0.7 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4	C V2 V2	12 12	12 13 14 15 16 17 18	20 20 20 20 20 20 20 20 20 20 20 20 20 2	1 3 5 7 9 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41 C RATIN	2 4 6 8 10 12 14 16 18 20 22 24 24 26 28 30 32 34 36 38 40 42	20 20 20 20 20 20 20 20 20 20 20 20 20 2	12 13 14 14 15 15 16 <td>12 12</td> <td>1/2 1</td> <td>0.4 0.4 0.4 0.2 0.2 0.2 0.2 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4</td> <td></td> <td>DEMAND BV, 3 PHAS DESCRIPTION W QUAD W QUAD W QUAD W QUAD E CTR TOP E CTR TOP</td> <td>44 E, 4 ₩ <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 212</u> <u>REC 314</u> <u>SPARE</u> <u>SPARE</u></td> <td></td>	12 12	1/2 1	0.4 0.4 0.4 0.2 0.2 0.2 0.2 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4		DEMAND BV, 3 PHAS DESCRIPTION W QUAD W QUAD W QUAD W QUAD E CTR TOP E CTR TOP	44 E, 4 ₩ <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 212</u> <u>REC 314</u> <u>SPARE</u> <u>SPARE</u>	
DTAL DEMAND	L2D DESCRIPTIO C 208 C 208 FURNITURE FURNITURE FURNITURE FURNITURE FURNITURE FURNITURE FURNITURE FURNITURE FURNITURE FURNITURE FURNITURE C 210 C	N 208 208 208 208 208 208 208 208	5.98 KVA 0.7 0.7 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4	C J. J. V2	12 12	12 13 14 15 16 17 17 18 19 <td>20 20 20 20 20 20 20 20 20 20 20 20 20 2</td> <td>1 3 5 7 9 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41 C RATIN</td> <td>2 4 6 8 10 12 14 16 18 20 22 24 24 26 28 30 32 34 36 38 40 42</td> <td>20 20 20 20 20 20 20 20 20 20 20 20 20 2</td> <td>12 13 14 14 15 15 16 <td>12 12</td><td>1/2 1</td><td>0.4 0.4 0.4 0.2 0.2 0.2 0.2 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4</td><td></td><td>DEMAND BV, 3 PHAS DESCRIPTION W QUAD W QUAD W QUAD W QUAD E CTR TOP E CTR TOP E CTR TOP E CTR TOP E CTR TOP E CTR TOP E QUAD W QUAD W QUAD E QUAD E QUAD E QUAD E QUAD E QUAD E QUAD E QUAD CONNECTED LI PHASE A:</td><td>44 E, 4 ₩ <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 212</u> <u>REC 212</u> <u>A</u> ONLY <u>SPARE</u> <u>SPARE</u> <u>SPARE</u> <u>SPARE</u> <u>SPARE</u></td><td></td></td>	20 20 20 20 20 20 20 20 20 20 20 20 20 2	1 3 5 7 9 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41 C RATIN	2 4 6 8 10 12 14 16 18 20 22 24 24 26 28 30 32 34 36 38 40 42	20 20 20 20 20 20 20 20 20 20 20 20 20 2	12 13 14 14 15 15 16 <td>12 12</td> <td>1/2 1</td> <td>0.4 0.4 0.4 0.2 0.2 0.2 0.2 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4</td> <td></td> <td>DEMAND BV, 3 PHAS DESCRIPTION W QUAD W QUAD W QUAD W QUAD E CTR TOP E CTR TOP E CTR TOP E CTR TOP E CTR TOP E CTR TOP E QUAD W QUAD W QUAD E QUAD E QUAD E QUAD E QUAD E QUAD E QUAD E QUAD CONNECTED LI PHASE A:</td> <td>44 E, 4 ₩ <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 212</u> <u>REC 212</u> <u>A</u> ONLY <u>SPARE</u> <u>SPARE</u> <u>SPARE</u> <u>SPARE</u> <u>SPARE</u></td> <td></td>	12 12	1/2 1	0.4 0.4 0.4 0.2 0.2 0.2 0.2 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4		DEMAND BV, 3 PHAS DESCRIPTION W QUAD W QUAD W QUAD W QUAD E CTR TOP E CTR TOP E CTR TOP E CTR TOP E CTR TOP E CTR TOP E QUAD W QUAD W QUAD E QUAD E QUAD E QUAD E QUAD E QUAD E QUAD E QUAD CONNECTED LI PHASE A:	44 E, 4 ₩ <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 212</u> <u>REC 212</u> <u>A</u> ONLY <u>SPARE</u> <u>SPARE</u> <u>SPARE</u> <u>SPARE</u> <u>SPARE</u>	
DTAL DEMAND DTAL DEMAND DEMAND ALL PAL REC 208 REC WIRED PRE-WIRED	L2D DESCRIPTIO C 208 C 208 FURNITURE FURNITURE FURNITURE FURNITURE FURNITURE FURNITURE FURNITURE FURNITURE FURNITURE FURNITURE FURNITURE C 210 C	N 208 208 208 208 208 208 208 208	5.98 KVA 0.7 0.7 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4	C J. J. V2	12 12	12 13 14 15 16 17 18	20 20 20 20 20 20 20 20 20 20 20 20 20 2	1 3 5 7 9 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41 C RATIN	2 4 6 8 10 12 14 16 18 20 22 24 24 26 28 30 32 34 36 38 40 42	20 20 20 20 20 20 20 20 20 20 20 20 20 2	12 13 14 14 15 15 16 <td>12 12</td> <td>1/2 1</td> <td>0.4 0.4 0.4 0.2 0.2 0.2 0.2 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4</td> <td></td> <td>DEMAND BV, 3 PHAS DESCRIPTION W QUAD W QUAD W QUAD W QUAD E CTR TOP E CTR TOP E CTR TOP E CTR TOP E CTR TOP E QUAD W QUAD W QUAD E QUAD CONNECTED LO PHASE A: PHASE B:</td> <td>44 E, 4 ₩ <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 212</u> <u>REC 314</u> <u>SPARE</u> <u>SPARE</u> <u>SPARE</u> <u>SPARE</u> <u>SPARE</u> <u>SPARE</u> <u>SPARE</u></td> <td></td>	12 12	1/2 1	0.4 0.4 0.4 0.2 0.2 0.2 0.2 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4		DEMAND BV, 3 PHAS DESCRIPTION W QUAD W QUAD W QUAD W QUAD E CTR TOP E CTR TOP E CTR TOP E CTR TOP E CTR TOP E QUAD W QUAD W QUAD E QUAD CONNECTED LO PHASE A: PHASE B:	44 E, 4 ₩ <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 212</u> <u>REC 314</u> <u>SPARE</u> <u>SPARE</u> <u>SPARE</u> <u>SPARE</u> <u>SPARE</u> <u>SPARE</u> <u>SPARE</u>	
PANEL KT 1 1 REC 208 3 REC 208 3 REC 208 5 E QUAD RE 7 E QUAD RE 9 PRE-WIRED 1 PRE-WIRED 1 PRE-WIRED 1 PRE-WIRED 1 PRE-WIRED 2 PRE-WIRED 2 PRE-WIRED 2 PRE-WIRED 2 PRE-WIRED 2 PRE-WIRED 2 PRE-WIRED 3 S QUAD RE 3 S QUAD RE 3 S PARE 4 SPARE	L2D DESCRIPTIO C 208 C 208 FURNITURE FURNITURE FURNITURE FURNITURE FURNITURE FURNITURE FURNITURE FURNITURE FURNITURE FURNITURE C 210 C 210	N 208 208 208 208 208 208 208 208	5.98 KVA 0.7 0.7 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4	C J. J. V2	12 12	12 13 14 15 16 17 18	20 20 20 20 20 20 20 20 20 20 20 20 20 2	1 3 5 7 9 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41 C RATIN	2 4 6 8 10 12 14 16 18 20 22 24 24 26 28 30 32 34 36 38 40 42	20 20 20 20 20 20 20 20 20 20 20 20 20 2	12 13 14 14 15 15 16 <td>12 12</td> <td>1/2 1</td> <td>0.4 0.4 0.4 0.2 0.2 0.2 0.2 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4</td> <td></td> <td>DEMAND BV, 3 PHAS DESCRIPTION W QUAD W QUAD W QUAD W QUAD E CTR TOP E CTR TOP E CTR TOP E CTR TOP E CTR TOP E CTR TOP E QUAD W QUAD W QUAD E QUAD E QUAD E QUAD E QUAD E QUAD E QUAD E QUAD CONNECTED LI PHASE A:</td> <td>44 E, 4 ₩ <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 212</u> <u>REC 212</u> <u>A</u> ONLY <u>SPARE</u> <u>SPARE</u> <u>SPARE</u> <u>SPARE</u> <u>SPARE</u></td> <td></td>	12 12	1/2 1	0.4 0.4 0.4 0.2 0.2 0.2 0.2 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4		DEMAND BV, 3 PHAS DESCRIPTION W QUAD W QUAD W QUAD W QUAD E CTR TOP E CTR TOP E CTR TOP E CTR TOP E CTR TOP E CTR TOP E QUAD W QUAD W QUAD E QUAD E QUAD E QUAD E QUAD E QUAD E QUAD E QUAD CONNECTED LI PHASE A:	44 E, 4 ₩ <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 210</u> <u>REC 212</u> <u>REC 212</u> <u>A</u> ONLY <u>SPARE</u> <u>SPARE</u> <u>SPARE</u> <u>SPARE</u> <u>SPARE</u>	



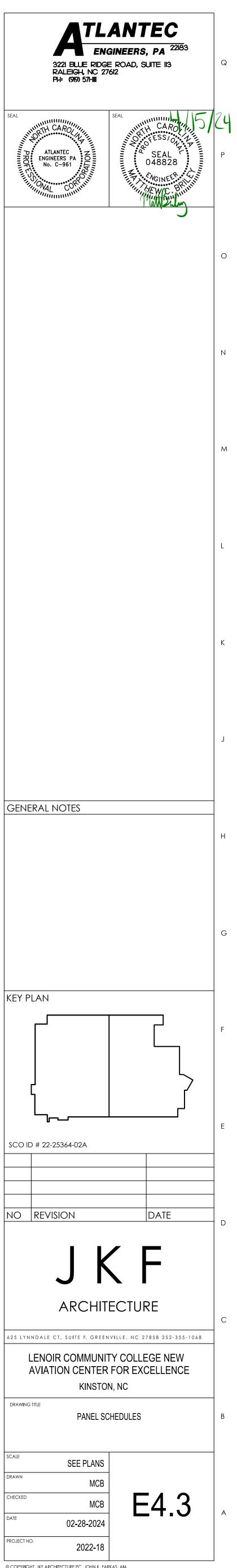
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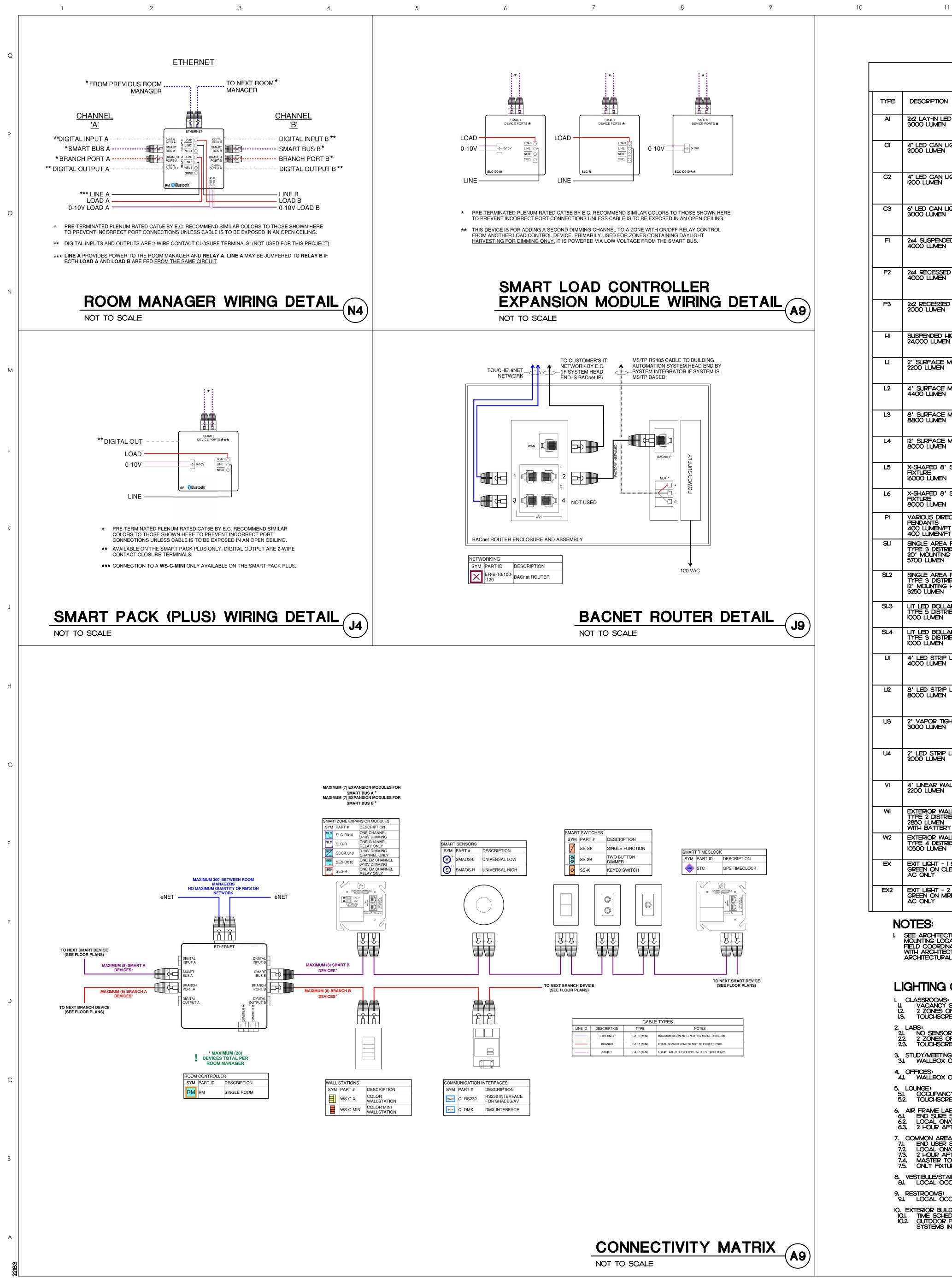
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E	DESCRIPTION	CATALOG	ELECTRICAL DATA	NOTES
	2x2 LAY-IN LED TROFFER 3000 LUMEN	ORACLE: 22-OD-LED-3000L-DIMIO-MVOLT-35K-85 OR EQUAL BY CORONET OR VISCOR	3000 LUMEN LED, 3500K O-IOV DIMMING DRIVER 44 WATTS - 48 VA, 120-277V	WHERE INDICATED FOR USE AS AN EMERGENCY LIGHT, PROVIDE WITH OPTION: O-EMG-LED-20W
	4° LED CAN LIGHT 2000 LUMEN	ELITE: HH4-LED-2000L-DIMIO-MVOLT-VWD -35K-90-*	2000 LUMEN LED, 3500K O-IOV DIMMING DRIVER 24 WATTS - 26 VA, 120-277V	TRIM TYPE AND COLOR TO BE SELECTED BY ARCHITECT. WHEN INSTALLED ON THE EXTERIOR, ORDER WITH 3000K COLOR TEMPERATURE. WHERE INDICATED FOR USE AS AN EMERGENCY LIGHT, PROVIDE WITH OPTION:
	4" LED CAN LIGHT 1200 LUMEN	OR EQUAL BY JUNO OR PRESCOLITE ELITE: HH4-LED-1200L-DIMIO-MVOLT-VWD -35K-90-*	1200 LUMEN LED, 3500K O-10V DIMMING DRIVER 14 WATTS - 16 VA, 120-277V	EMG-LED-20W TRIM TYPE AND COLOR TO BE SELECTED BY ARCHITECT. WHEN INSTALLED ON THE EXTERIOR, ORDER WITH 3000K COLOR TEMPERATURE. WHERE INDICATED FOR USE AS AN EMERGENCY LIGHT, PROVIDE WITH OPTION:
	6" LED CAN LIGHT 3000 LUMEN	OR EQUAL BY JUNO OR PRESCOLITE ELITE: HH6-LED-3000L-DIMIO-MVOLT-MD -30K-90-*	3000 LUMEN LED, 3000K O-IOV DIMMING DRIVER 32 WATTS - 35 VA, 120-277V	EMG-LED-IOW TRIM TYPE AND COLOR TO BE SELECTED BY ARCHITECT.
	2x4 SUSPENDED FLAT PANEL LED FIXTURE 4000 LUMEN	OR EQUAL BY JUNO OR PRESCOLITE ORACLE: 24-FPLI-LED-4000/5000/6000L-DIMIO -MVOLT-35K-85-24-FPLI-LED-SMK	4000 LUIMEN LED, 3500K O-10V DIMMING DRIVER 32 WATTS - 35 VA, 120-277V	PROVIDE AIRCRAFT CABLE AS REQUIRED TO SUSPEND FIXTURE FROM STRUCTURE ABOVE. WHERE INDICATED FOR USE AS AN EMERGENCY LIGHT, PROVIDE WITH OPTION:
	2x4 RECESSED FLAT PANEL LED FIXTURE 4000 LUMEN	OR EQUAL BY LITHONIA OR HUBBELL ORACLE: 24-FPLI-LED-4000/5000/6000L-DIMIO -MVOLT-35K-85	4000 LUIMEN LED, 3500K O-10V DIMMING DRIVER 32 WATTS - 35 VA, 120-277V	O-EMG-LED-20W WHERE INDICATED FOR USE AS AN EMERGENCY LIGHT, PROVIDE WITH OPTION: O-EMG-LED-20W
	2x2 RECESSED FLAT PANEL LED FIXTURE 2000 LUMEN	OR EQUAL BY LITHONIA OR HUBBELL ORACLE: 22-FPLHLED-2000/3000/4000L-DIMIO -MVOLT-35K-85	2000 LUMEN LED, 3500K O-10V DIMMING DRIVER 19 WATTS - 21 VA, 120-277V	WHERE INDICATED FOR USE AS AN EMERGENCY LIGHT, PROVIDE WITH OPTION: O-EMG-LED-10W
	SUSPENDED HIGH BAY LED FIXTURE 24,000 LUMEN	OR EQUAL BY LITHONIA OR HUBBELL CREE: KBL-B-UV-24L-35K-8-UL-10V	24000 LUMEN LED, 3500K 0-10V DIMMING DRIVER 164 WATTS - 182 VA, 120-277V	INSTALL BOTTOM OF FIXTURE AT 22' A.F.F. PROVIDE WITH STANDARD ACRYLIC REFLECTOR - CONFIRM WITH ARCHITECT
	2' SURFACE MOUNTED LINEAR FIXTURE 2200 LUMEN	OR EQUAL BY ELITE OR LITHONIA SELUX: L36-IC40-835-LW-F4-02-U-DIM	2200 LUMEN LED, 3500K O-IOV DIMMING DRIVER 20 WATTS - 22 VA, 120-277V	WHERE INDICATED FOR USE AS AN EMERGENCY LIGHT, PROVIDE WITH OPTION: -E TRIM TYPE AND COLOR TO BE SELECTED BY ARCHITECT. CONFIRM MOUNTING OPTION WITH ARCHITECT PRIOR TO PURCHASE.
	4' SURFACE MOUNTED LINEAR FIXTURE 4400 LUMEN	OR EQUAL BY ORACLE OR XAL SELUX: L36-IC40-835-LW-F4-04-U-DIM OR EQUAL BY ORACLE OR XAL	4400 LUMEN LED, 3500K O-IOV DIMMING DRIVER 40 WATTS - 44 VA, 120-277V	WHERE INDICATED FOR USE AS AN EMERGENCY LIGHT, PROVIDE WITH OPTION; EN TRIM TYPE AND COLOR TO BE SELECTED BY ARCHITECT. CONFIRM MOUNTING OPTION WITH ARCHITECT PRIOR TO PURCHASE.
	8' SURFACE MOUNTED LINEAR FIXTURE 8800 LUMEN	SELUX: L36-IC40-835-LW-F4-08-U-DIM OR EQUAL BY ORACLE OR XAL	8800 LUMEN LED, 3500K 0-10V DIMMING DRIVER 80 WATTS - 89 VA, 120-277V	TRIM TYPE AND COLOR TO BE SELECTED BY ARCHITECT. CONFIRM MOUNTING OPTION WITH ARCHITECT PRIOR TO PURCHASE.
	12' SURFACE MOUNTED LINEAR FIXTURE 8000 LUMEN	SELUX: L36-IC35-835-LW-F4-12-U-DIM OR EQUAL BY ORACLE OR XAL	8000 LUMEN LED, 3500K 0-10V DIMMING DRIVER 104 WATTS - 116 VA, 120-277V	TRIM TYPE AND COLOR TO BE SELECTED BY ARCHITECT. CONFIRM MOUNTING OPTION WITH ARCHITECT PRIOR TO PURCHASE.
	X-SHAPED 8' SURFACE MOUNTED LINEAR FIXTURE 16000 LUMEN	SELUX: L36-IC40-835-LW-F4-08-U-DIM-X9 OR EQUAL BY ORACLE OR XAL	16000 LUMEN LED, 3500K O-10V DIMMING DRIVER 160 WATTS - 178 VA, 120-277V	TRIM TYPE AND COLOR TO BE SELECTED BY ARCHITECT, CONFIRM MOUNTING OPTION WITH ARCHITECT PRIOR TO PURCHASE,
	X-SHAPED 8' SURFACE MOUNTED LINEAR FIXTURE 8000 LUMEN	SELUX; L36-IC20-835-LW-F4-08-U-DIM-X9 OR EQUAL BY ORACLE OR XAL	8000 LUMEN LED, 3500K O-IOV DIMMING DRIVER 80 WATTS - 89 VA, 120-277V	TRIM TYPE AND COLOR TO BE SELECTED BY ARCHITECT. CONFIRM MOUNTING OPTION WITH ARCHITECT PRIOR TO PURCHASE.
	VARIOUS DIRECT/INDIRECT DECORATIVE PENDANTS 400 LUMEN/FT DIRECT 400 LUMEN/FT INDIRECT	ALW: MOONRING OPTIONS SELECTED BY ARCHITECT EQUAL BY CORONET OR ELITE	400 LUMEN/FT DIRECT AND INDIRECT 0-10V DIMMING DRIVER 10 WATTS/FT - 10 VA/FT, 120-277V	CONFIRM MOUNTING HEIGHT, OPTIONS, COLORS, AND FINISHES WITH ARCHITECT PI TO PURCHASE, E.C. SHALL PROVIDE SHOP DRAWINGS WITH SUBMITTALS FOR THE FIXTURES, E.C. TO PROVIDE ALL NECESSARY DRIVERS AND MAKE CONNECTIONS A REQUIRED TO POWER FIXTURES.
	SINGLE AREA POLE LIGHT TYPE 3 DISTRIBUTION 20' MOUNTING HEIGHT 5700 LUMEN	GARDCO: P26-196L-1150-WW-G2-AR-3-UNV-DD PROVIDE POLE TO MATCH OR EQUAL BY NLS OR LIGMAN	5700 LUMEN LED, 3000K ELECTRONIC DRIVER 51 WATTS - 57 VA, 120-277V	PROVIDE POLE PER ARCHITECT INSTRUCTION AND UPDATE MOUNTING OPTIONS AS REQUIRED. INSTALL FIXTURE AT 20' A.F.G. COLOR AND FINISH TO BE SELECTED BY ARCHITECT.
	SINGLE AREA POLE LIGHT TYPE 3 DISTRIBUTION 12' MOUNTING HEIGHT 3250 LUMEN	GARDCO: P26-196L-650-WW-G2-AR-3-UNV-DD PROVIDE POLE TO MATCH OR EQUAL BY NLS OR LIGMAN	3250 LUMEN LED, 3000K ELECTRONIC DRIVER 30 WATTS - 33 VA, 120-277V	PROVIDE POLE PER ARCHITECT INSTRUCTION AND UPDATE MOUNTING OPTIONS AS REQUIRED. INSTALL FIXTURE AT 20' A.F.G. COLOR AND FINISH TO BE SELECTED BY ARCHITECT.
	LIT LED BOLLARD TYPE 5 DISTRIBUTION 1000 LUMEN	GARDCO: PBL-42-14L-200-WW-G2-5-UNV-DD OR EQUAL BY NLS OR LIGMAN	1000 LUMEN LED, 3000K ELECTRONIC DRIVER 11 WATTS - 13 VA, 120-277V	COLOR AND FINISH TO BE SELECTED BY ARCHITECT.
	LIT LED BOLLARD TYPE 3 DISTRIBUTION 1000 LUMEN	GARDCO: PBL-42-14L-200-WW-G2-3-UNV-DD OR EQUAL BY NLS OR LIGMAN	1000 LUMEN LED, 3000K ELECTRONIC DRIVER II WATTS - 13 VA, 120-277V	COLOR AND FINISH TO BE SELECTED BY ARCHITECT.
	4' LED STRIP LIGHT 4000 LUMEN	ORACLE: 4-OC4-LED-4000L-DIMIO-MVOLT-35K -85-WH OR EQUAL BY LITHONIA OR HUBBELL	4000 LUMEN LED, 3500K O-10V DIMMING DRIVER 36 WATTS - 40 VA, 120-277V	PROVIDE MOUNTING ACCESSORIES AS REQUIRED.
	8' LED STRIP LIGHT 8000 LUMEN	ORACLE: 8-OC4-LED-8000L-DIMIO-MVOLT-35K -85-WH	8000 LUMEN LED, 3500K 0-10V DIMMING DRIVER 57 WATTS - 63 VA, 120-277V	PROVIDE MOUNTING ACCESSORIES AS REQUIRED.
	2' VAPOR TIGHT LED FIXTURE 3000 LUMEN	OR EQUAL BY LITHONIA OR HUBBELL ORACLE: 2-OWVSI-LED-3000L-DIMIO-MVOLT-35K -85CRI	3000 LUMEN LED, 3500K O-10V DIMMING DRIVER 19 WATTS - 21 VA, 120-277V	FIELD COORDINATE INSTALLATION IN ELEVATOR PIT WITH ELEVATOR MANUFACTU PRIOR TO ROUGH-IN,
	2' LED STRIP LIGHT 2000 LUMEN	OR EQUAL BY LITHONIA OR HUBBELL ORACLE: 2-OC4-LED-2000L-DIMIO-MVOLT-35K -85-WH	2000 LUMEN LED, 3500K O-10V DIMMING DRIVER 16 WATTS - 18 VA, 120-277V	PROVIDE MOUNTING ACCESSORIES AS REQUIRED.
	4' LINEAR WALL MOUNT LED FIXTURE 2200 LUMEN	OR EQUAL BY LITHONIA OR HUBBELL VISA: CVI716-L35K(H)-MVOLT OR EQUAL BY CORONET OR VISCOR	2200 LUMEN LED, 3500K O-IOV DIMMING DRIVER 32 WATTS - 36 VA, 120-277V	COLOR AND FINISH TO BE SELECTED BY ARCHITECT, COORDINATE MOUNTING HEI WITH ARCHITECT PRIOR TO ROUGH-IN, WHERE INDICATED FOR USE AS AN EMERGENCY LIGHT, PROVIDE WITH EMERGENCY LIGHTING INVERTER, IOTA: IIS-50-1
	EXTERIOR WALL PACK TYPE 2 DISTRIBUTION 2850 LUMEN WITH BATTERY BACKUP	GARDCO: IOIL-I6L-400-WW-G2-2-UNV-DD OR EQUAL BY STONE OR HUBBELL	2850 LUMEN LED, 3000K O-IOV DIMMING DRIVER 22 WATTS - 25 VA, 120-277V	COLOR AND FINISH TO BE SELECTED BY ARCHITECT. INSTALL FIXTURE AT 14' A.F.G. UNLESS NOTED OTHERWISE. WHERE INDICATED FOR USE AS AN EMERGENCY LIGHT, PROVIDE WITH OPTION: -EBPC
	EXTERIOR WALL PACK TYPE 4 DISTRIBUTION 10500 LUMEN	GARDCO: IOIL-32L-IOOO-WW-G2-4-UNV-DD OR EQUAL BY STONE OR HUBBELL	10500 LUMEN LED, 3000K O-10V DIMMING DRIVER 107 WATTS - 119 VA, 120-277V	COLOR AND FINISH TO BE SELECTED BY ARCHITECT. INSTALL FIXTURE AT 14' A.F.G. UNLESS NOTED OTHERWISE. WHERE INDICATED FOR USE AS AN EMERGENCY LIGHT, PROVIDE WITH OPTION: -EBPC
	EXIT LIGHT - I SIDED GREEN ON CLEAR AC ONLY	LITHONIA: EDGR-I-G OR EQUAL BY DUAL-LITE OR ISOLITE	5 watts - 5 va, 120-277v	ADJUST PART NUMBER AND PROVIDE ACCESSORIES AS REQUIRED TO PROVIDE REQUIRED MOUNTING.
	EXIT LIGHT - 2 SIDED GREEN ON MIRROR AC ONLY	LITHONIA: EDGR-2-GMR OR EQUAL BY DUAL-LITE OR ISOLITE	5 watts - 5 va, 120-277v	ADJUST PART NUMBER AND PROVIDE ACCESSORIES AS REQUIRED TO PROVIDE REQUIRED MOUNTING.
-				
	SEE ARCHITECTURAL PLAN FOR 2. MOUNTING LOCATION AND HEIGHT. FIELD COORDINATE MOUNTING HEIGHT	E.C. SHALL SUBMIT CATALOG TO ARCHITECT FOR APPROVAL PRIOR TO PURCHASE, FINISH COLOR/TRIM	3. FIELD VERIFY LED COLOR WITH ARCHITECT PRIOR TO ORDERIN ALL INTERIOR FIXTURES TO BE	

LIGHTING CONTROL SEQUENCE OF OPERATIONS:

I.I. \ I.2. 2	SSROOMS; VACANCY SENSORS - 30 MINUTE TIMEOUT 2 ZONES OF LIGHTING CONTROLS, I FOR GENERAL LI TOUCHSCREEN BUTTONS; BUTTON I - ALL ON / BUTT
2.2. 2	S; NO SENSORS 2 ZONES OF LIGHTING CONTROLS, I FOR GENERAL LI TOUCHSCREEN BUTTONS; BUTTON I - ALL ON / BUTT
3. STUI 3.1. \	DY/MEETING/CONFERENCE; WALLBOX OCCUPANCY SENSOR/DIMMER - AUTO ON ·
4. OFF 4.1. \	ICES: WALLBOX OCCUPANCY SENSOR/DIMMER - AUTO ON ·
	NGE: OCCUPANCY SENSORS - 30 MIN TIMEOUT TOUCHSCREEN BUTTONS: BUTTON I - HIGH / BUTTON
6.I. E 6.2. L	FRAME LAB: END SURE SELECTED TIME SCHEDULE ON/OFF LOCAL ON/OFF 2 HOUR AFTER HOURS OVERRIDE
7.I. E 7.2. L 7.3. 2 7.4. I	IMON AREAS/CORRIDORS/LOBBY/STAIR 'B'; END USER SELECTED TIME SCHEDULE ON/OFF LOCAL ON/OFF 2 HOUR AFTER HOURS OVERRIDE MASTER TOUCHSCREEN CONTROL FOR ALL ZONES ONLY FIXTURE TYPE 'PI' TO BE DIMMABLE
	TIBULE/STAIR 'A'; _OCAL OCCUPANCY SENSORS - DIM TO 25% AFTER 16
	TROOMS: _OCAL OCCUPANCY SENSORS - 30 MINUTE TIMEOUT

10, EXTERIOR BUILDING MOUNTED LIGHTING, SIGN, AND SITE; 10,1. TIME SCHEDULE DUSK TILL DAWN 10,2. OUTDOOR PHOTOSENSOR PROVIDED AS A COMPONENT OF THE BAS SYSTEM FOR CONTROL OF EXTERIOR LIGHTING, DEVICE, INSTALLATION, AND PROGRAMMING BY SYSTEMS INTEGRATOR.

LIGHT FIXTURE SCHEDULE

LIGHTING AND I FOR FIXTURES NEAREST TEACHING WALL ITON 2 - TEACH / BUTTON 3 - DISPLAY / BUTTON 4 - ALL OFF

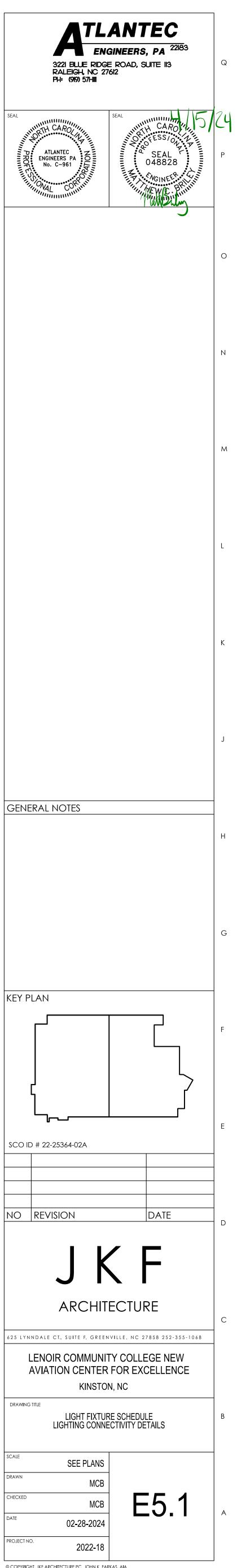
. LIGHTING AND I FOR FIXTURES NEAREST TEACHING WALL ITTON 2 - TEACH / BUTTON 3 - DISPLAY / BUTTON 4 - ALL OFF

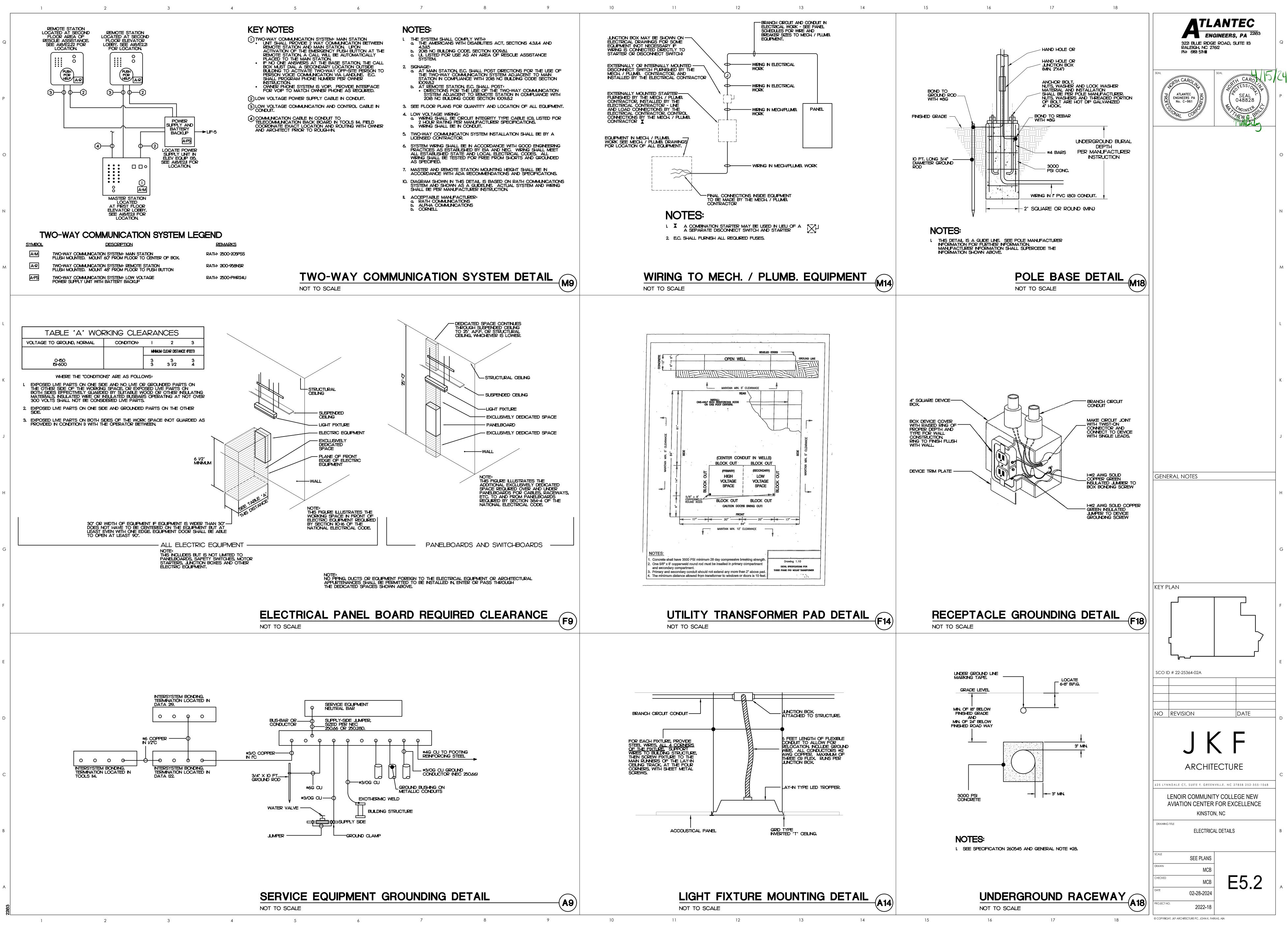
- 30 MIN TIMEOUT

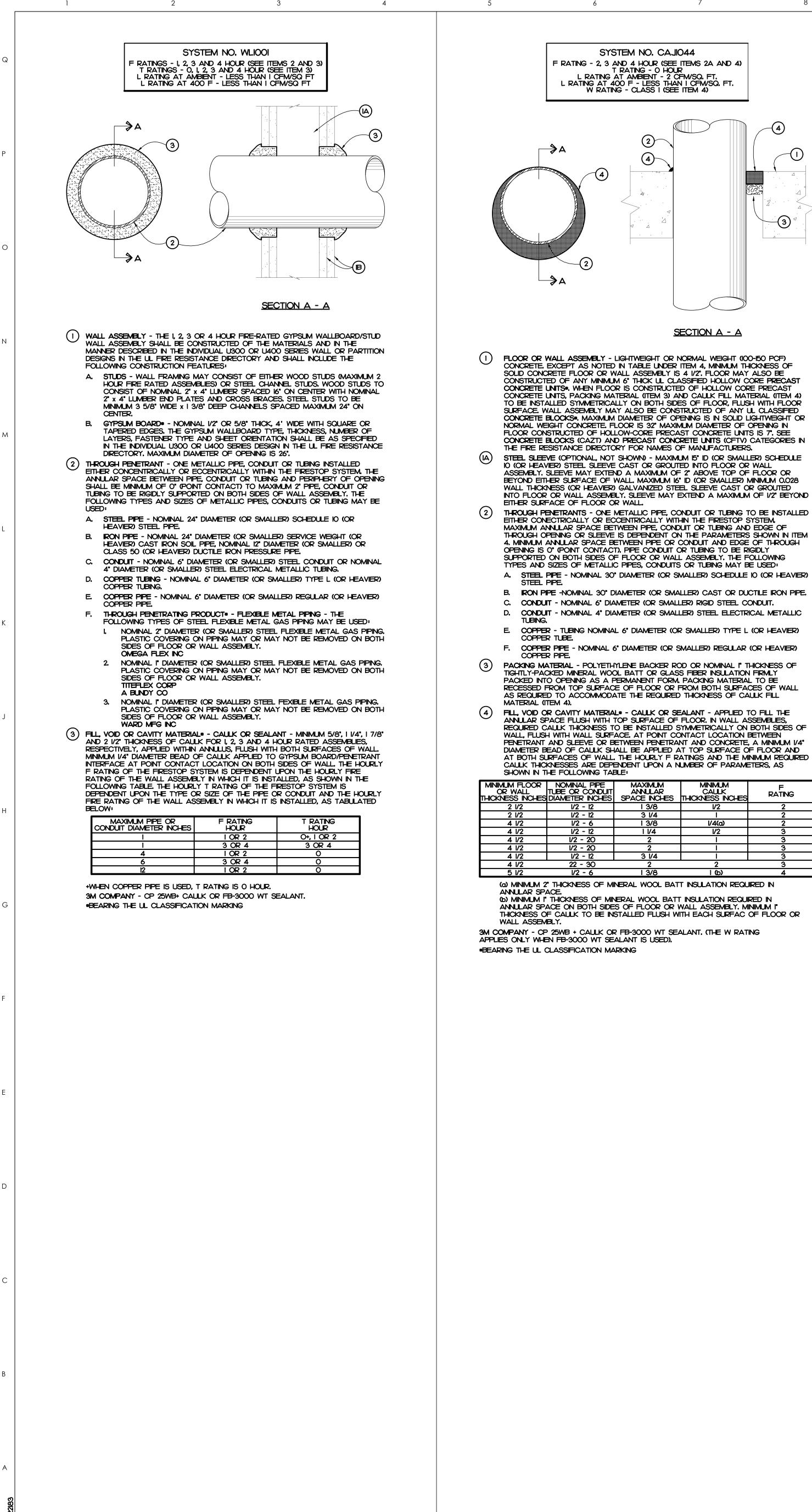
1 - 30 MIN TIMEOUT

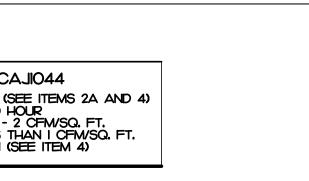
N 2 - MEDIUM / BUTTON 3 - LOW / BUTTON 4 - OFF

RIO MIN OF NO OCCUPANCY, RAMP UP TO 100% UPON OCCUPANCY, OFF DISABLED,



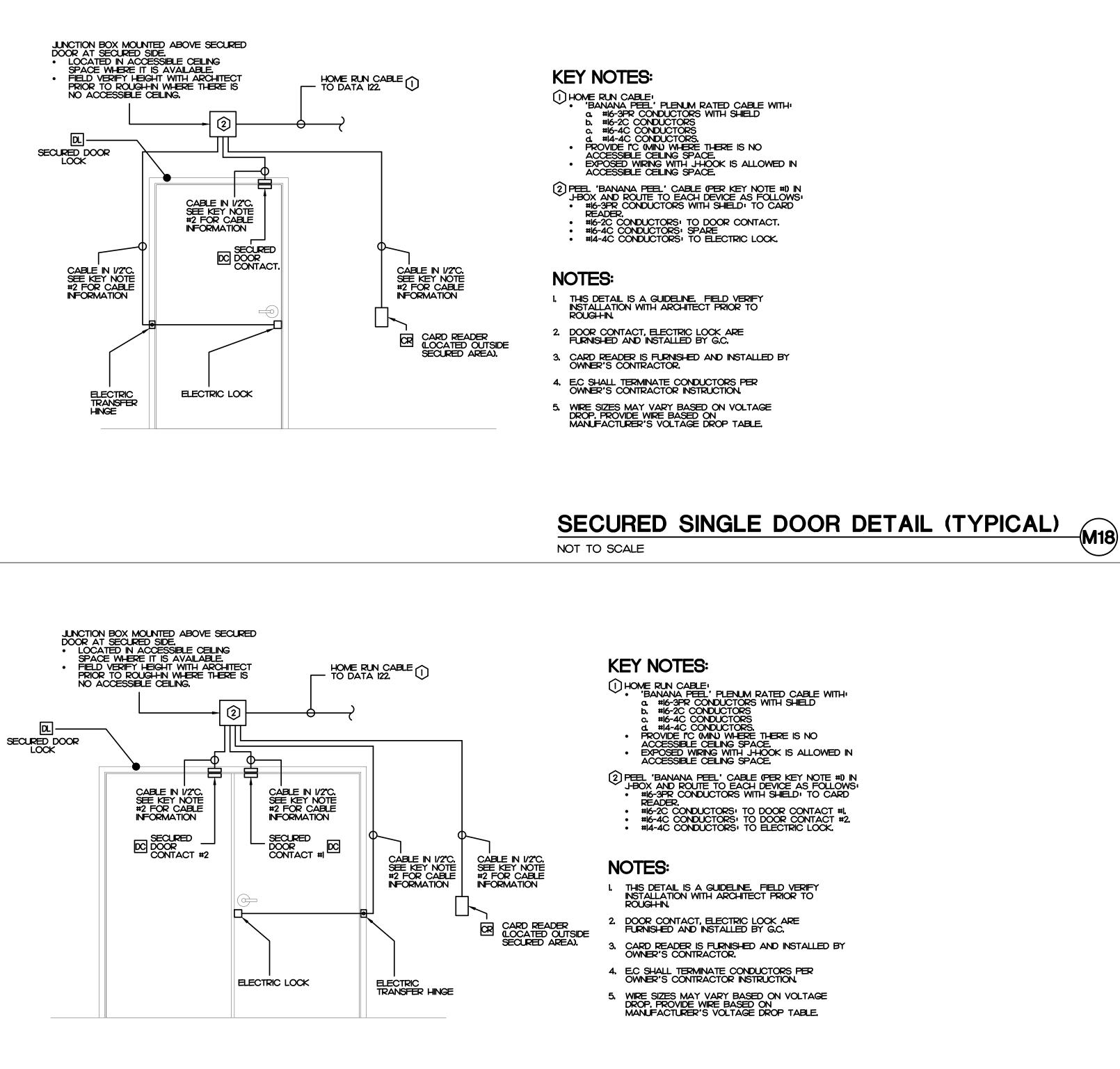






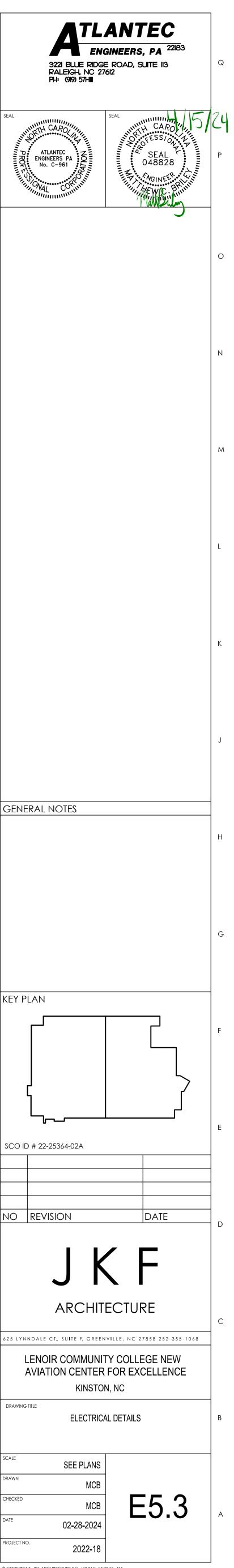
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IT S	MAXIMUM ANNULAR SPACE INCHES	MINIMUM CAULK THICKNESS INCHES	F RATING
	1 3/8	l/2	2
	3 1/4	1	2
	1 3/8	1/4(a)	2
	/4	l/2	3
	2	1	3
	2	1	3
	3 1/4	1	3
	2	2	3
	1 3/8	1 (b)	4

JUNCTION BOX MOUNTED ABOVE SECURED DOOR AT SECURED SIDE.
LOCATED IN ACCESSIBLE CEILING SPACE WHERE IT IS AVAILABLE.
FIELD VERIFY HEIGHT WITH ARCHITECT PRIOR TO ROUGH-IN WHERE THERE IS NO ACCESSIBLE CEILING. SECURED DOOR LOCK CABLE IN 1/2°C. SEE KEY NOTE #2 FOR CABLE INFORMATION DC DOOR CONTACT. CABLE IN 1/2°C. SEE KEY NOTE #2 FOR CABLE INFORMATION ELECTRIC TRANSFER HINGE ELECTRIC LOCK

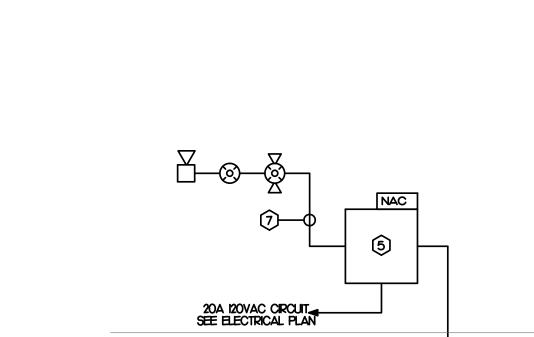


SECURED SINGLE DOOR DETAIL (TYPICAL)

NOT TO SCALE



G18

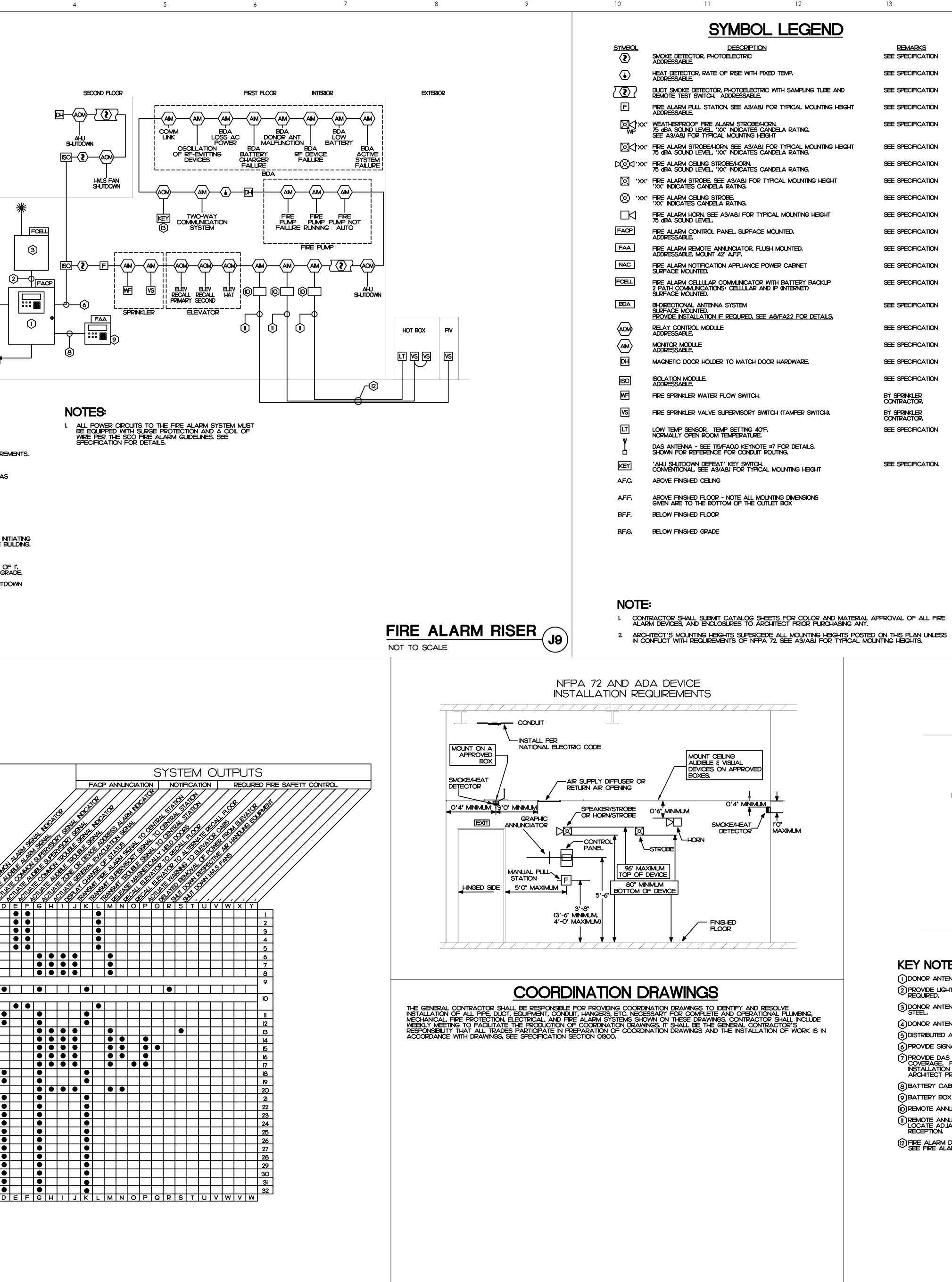


3

NAC

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20A 120VAC CIRCUIT



KEY NOTES

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(1) ADDRESSABLE FIRE ALARM CONTROL PANEL. (2) 2 LINE COMMUNICATION CABLE IN CONDUIT.

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20A 120VAC CIRCUIT

(3) CELLULAR DIGITAL ALARM COMMUNICATOR. SEE FIRE ALARM NOTE AND LEGEND FOR REQUIREMENTS.

(4) SYNC CIRCUIT. (5) NAC PANEL, PROVIDE ADDITIONAL NAC PANELS AS REQUIRED,

(6) ADDRESSABLE CIRCUIT.

(7) NOTIFICATION APPLIANCE CIRCUIT.

(8) ANNUNCIATOR CIRCUIT.

(9) REMOTE ANNUNCIATOR PANEL. (10) PROVIDE SURGE PROTECTOR AS REQUIRED FOR INITIATING CIRCUIT TO INITIATING DEVICE LOCATED OUTSIDE BUILDING.

(II) INITIATING CIRCUIT.

(12) WIRING IN UNDERGROUND CONDUIT. MINIMUM SIZE OF 1". MINIMUM BURIAL DEPTH OF 24" BELOW FINISHED GRADE. B PROVIDE KEY OPERATED SWITCH FOR 'AHU SHUTDOWN DEFEAT'.

LABEL SWITCH 'AHU SHUTDOWN DEFEAT'.
LABEL ON POSITION: 'NORMAL'.
LABEL OFF POSITION: 'DEFEAT'

F	IRE ALARM SYSTEM																	S	YS	STE	ΞN	Λ	CL	JTI	PL	JTS	5
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	FIRE ALARM SYSTEM AC POWER FAILURE											┢							ĸ	3			v		H	•	1
2	FIRE ALARM SYSTEM LOW BATTERY					Ĭ	Ō						Ō														2
3	OPEN CIRCUIT					Ĭ	Ĭ																				3
4	GROUND FAULT					Ŏ	Ĭ						Ŏ														4
5	NOTIFICATION APPLIANCE CIRCUIT SHORT					Ŏ	Ō						Ĭ														5
6	BUILDING MANUAL PULL STATIONS					-	<u> </u>						<u> </u>														6
7	CORRIDOR SMOKE DETECTORS	Ĭ	•					Ĭ	Ō		Ĭ			Ĭ													7
8	AREA SMOKE DETECTORS	Ĭ						Ĭ		Ĭ	Ĭ			Ĭ													8
9	HVAC AIR DUCT SMOKE DETECTORS	<u> </u>									<u> </u>	-		<u> </u>													9
Í	AHU SHUT DOWN DEFEAT - ON (NORMAL)																										-
ю	HVAC AIR DUCT SMOKE DETECTORS			-	-							-							-					LI			ю
	AHU SHUT DOWN DEFEAT - OFF (DEFEAT)																										
1	AREA OF REFUGE TWO-WAY COMMUNICATIONS STATUS																										11
12	SPRINKLER TAMPER SWITCH																										12
13	SPRINKLER WATER FLOW IN BUILDING																										13
14	ELEV EQUIP RM AREA SMOKE DETECTOR																										14
15	ELEV SHAFT AND ELEV EQUIP RM HEAT DETECTORS																										15
16	ELEV LOBBY SMOKE DETECTORS - UPPER FLOORS																										16
17	ELEV LOBBY SMOKE DETECTOR - RECALL FLOOR																										17
18	ELEV CONTROLLER POWER SHUNT TRIP STATUS																										18
19	FIRE PUMP POWER FAILURE/PHASE REVERSAL																										19
20	FIRE PUMP RUNNING																										20
21	FIRE PUMP SYSTEM NOT IN AUTOMATIC			•																							21
22	BDA SYSTEM: OSCILLATION OF RF-EMITTING DEVICES																										22
23	BDA SYSTEM: COMMUNICATION LINK																										23
24	BDA SYSTEM: LOSS AC POWER			ullet																							24
25	BDA SYSTEM: BATT, CHARGER FAILURE																										25
26	BDA SYSTEM: DONOR ANTENNA MALFUNCTION.			•																							26
27	BDA SYSTEM: RF DEVICE FAILURE			ullet																							27
28	BDA SYSTEM: LOW BATTERY			•																							28
29	BDA SYSTEM: ACTIVE SYSTEM FAILURE			\bullet																							29
30	HOT BOX LOW TEMPERATURE			ullet	٠			٠																\square			30
31	HOT BOX TAMPER SWITCH			•	٠																			\square			3
32	POST INDICATOR VALVE TAMPER SWITCH			٠	-																			\square			32
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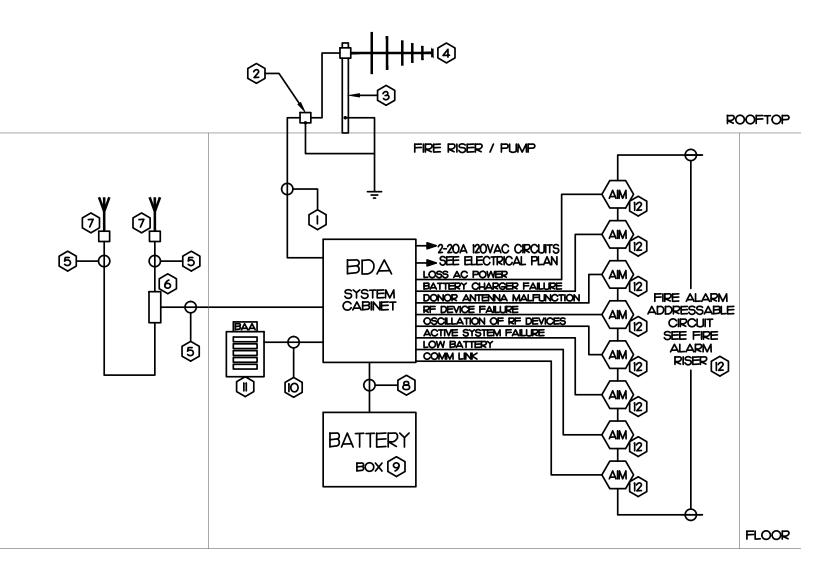
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	13 1	14 15 16 17 18
D		FIRE ALARM NOTES
	REMARKS	I. SEE PLANS FOR QUANTITY AND LOCATION OF ALL EQUIPMENT.
	SEE SPECIFICATION	2. CONTRACTOR SHALL PROVIDE COMPLETE DOCUMENT PER 2018 FIRE CODE SECTION 907.1.1 AND 907.1.2 TO TO ENGINEER FOR APPROVAL PRIOR TO SUBMIT TO AND TESTING BY LENOIR
	SEE SPECIFICATION	COUNTY FIRE MARSHAL'S OFFICE. 3. PLACARD THE ENTIRE FIRE ALARM SYSTEM. PROVIDE PANEL AND CIRCUIT NUMBERS ON A
AND	SEE SPECIFICATION	NAME PLATE AFFIXED TO THE FACE OF THE FIRE ALARM CONTROL PANEL.
HEIGHT	SEE SPECIFICATION	4. CONTRACTOR SHALL PROVIDE ZONE MAPS COMPLETE WITH ADDRESSES FOR EACH FIRE ALARM DEVICE IN WOODEN FRAME ADJACENT TO THE NEW FIRE ALARM CONTROL PANEL.
	SEE SPECIFICATION	5. ELECTRICAL CONTRACTOR SHALL PROVIDE BATTERY CALCULATIONS AND CUT SHEETS FOR FIRE ALARM SYSTEM TO ENGINEER FOR APPROVAL.
		6. ALL WIRING SHALL BE SUPERVISED.
HEIGHT	SEE SPECIFICATION	7. ALL WIRING SHALL BE PER MANUFACTURER'S SPECIFICATIONS.
	SEE SPECIFICATION	8. ALL WIRING SHALL BE IN CONDUIT.9. ADDRESSABLE SLC CIRCUIT REQUIREMENTS:
п	SEE SPECIFICATION	 WRING SHALL BE 'CLASS A'. 'T' TAPS ARE NOT PERMITTED. MINIMUM CAPACITY OF ANALOG SENSORS PER LOOP SHALL BE 48.
	SEE SPECIFICATION	 MINIMUM CAPACITY OF ADDRESSABLE MONITORING DEVICES PER LOOP SHALL BE 48. MINIMUM CAPACITY OF ADDRESSABLE CONTROL RELAY MODULES PER LOOP SHALL BE 48.
	SEE SPECIFICATION	 NOTIFICATION CIRCUIT REQUIREMENTS: WIRING SHALL BE 'CLASS B'.
	SEE SPECIFICATION	 PROVIDE WITH 'SYNC MODULE' AS REQUIRED PER NFPA 72. FURNISH NOTIFICATION CIRCUITS AS REQUIRED TO ACCOMMODATE CIRCUIT LOADING. NO NOTIFICATION CIRCUIT SHALL BE LOADED TO MORE THAN 80% CAPACITY.
	SEE SPECIFICATION	 II. NOTIFICATION APPLIANCE RATINGS; PROVIDE SOUND (dB) AND CANDELA (Cd) RATINGS FOR ALL HORN/STROBE DEVICES PER NFPA 72, ALL VISIBLE NOTIFICATION APPLIANCES SHALL BE SYNCHRONIZED PER NFPA 72,
	SEE SPECIFICATION	18.5.5.7 AND 18.5.3.6. • A DECIBEL LEVEL OF (15 dB ABOVE AMBIENT ON NFPA 72, TABLE A.18.4.3) SHALL BE MAINTAINED IN ALL GENERAL AREAS AND 100 dB (15 dB ABOVE AN AMBIENT OF 85 dB IN
	SEE SPECIFICATION	 NFPA 72, 18.4.3.1) SHALL BE MAINTAINED IN ALL MECHANICAL EQUIPMENT ROOMS PER NFPA 72 AND THE 2018 NORTH CAROLINA STATE BUILDING CODE (SECTION 907.6.2). WHERE FIRE ALARM SYSTEM IS WITH VOICE EVACUATION SYSTEM, PER NFPA 18.4.1.5 VOICE MESSAGES SHALL NOT BE REQUIRED TO MEET THE AUDIBILITY REQUIREMENTS OF 18.4.3, BUT
	SEE SPECIFICATION	SHALL MEET THE INTELLIGIBILITY REQUIREMENTS OF 18.4.10 WHERE VOICE INTELLIGIBILITY IS REQUIRED.
	SEE SPECIFICATION	 12. DIGITAL ALARM COMMUNICATOR: FIRE ALARM SYSTEM SHALL BE WITH DIGITAL ALARM COMMUNICATOR (DACT). WHERE SINGLE COMMUNICATION PATH WITH CELLULAR NETWORK IS ACCEPTABLE BY THE LOCAL FIRE MARSHAL, PROVIDE WITH THE COMMUNICATOR IN LIEU OF 2 LINE TELEPHONE IN COMPLIANCE WITH NEPA 72 26.6,3,15.
	SEE SPECIFICATION	• WHERE DUAL COMMUNICATION PATHS OF CELLULAR NETWORK AND INTERNET NETWORK ARE REQUIRED BY THE LOCAL FIRE MARSHAL, PROVIDE WITH COMMUNICATOR IN LIEU OF 2 LINE TELEPHONE.
	SEE SPECIFICATION	FIELD COORDINATE TYPE MATCH MONITORING COMPANY.
	SEE SPECIFICATION	 13. FOR ALL AHU UNITS WITH REQUIRED DUCT DETECTOR PER MECHANICAL PLAN. THE FIRE ALARM CONTRACTOR SHALL PROVIDE DUCT MOUNTED SMOKE DETECTORS FOR INSTALLATION BY THE MECHANICAL CONTRACTOR WITHIN THE DUCT. ANY ALARM SHALL SHUT DOWN ALL AIR HANDLING UNITS.
	BY SPRINKLER CONTRACTOR.	 SHUT DOWN SHALL BE ACHEVED VIA FACP CONTROLLED RELAY (WITHIN FACP OR ADDRESSABLE RELAY). SHUT DOWN VIA THE DUCT SMOKE DETECTOR CONTROLLED RELAY IS NOT ACCEPTABLE.
	BY SPRINKLER CONTRACTOR.	 FIRE ALARM CONTRACTOR SHALL PROVIDE WIRING AND RELAYS AS REQUIRED FOR AIR HANDLING SHUTDOWN. FIELD COORDINATE AIR HANDLING UNIT SHUTDOWN WITH MECHANICAL CONTROL SYSTEM. FINAL CONNECTIONS OF WIRING FOR HVAC SYSTEM SHALL
	SEE SPECIFICATION	BE BY THE ELECTRICAL CONTRACTOR. • CONTRACTOR SHALL PROVIDE A SMOKE MACHINE TO TEST THE DUCT DETECTION PORTION OF THE FIRE ALARM SYSTEM. SMOKE BOMBS AND/OR MAGNETS FOR TESTING OF THE DUCT DETECTION SYSTEM IS PROHIBITED.
	SEE SPECIFICATION.	 ALL DUCT MOUNTED DETECTORS MUST BE EQUIPPED WITH A REMOTE INDICATOR LIGHT THAT IS LOCATED IN THE NEAREST CORRIDOR PER SCO GUIDELINES. ALL DUCT DETECTORS MUST BE PROVIDED WITH A MINIMUM 12" x 12" HINGED OR LATCHED DUCT ACCESS DOOR PER SCO GUIDELINES. FIELD COORDINATE THE LOCATION OF ALL KEY TEST SWITCHES WITH AHJ PRIOR TO ROUGH-IN.
		 14. FOR SPRINKLER SYSTEM: FIELD COORDINATE QUANTITY AND LOCATION OF FLOW AND TAMPER SWITCHES WITH SPRINKLER'S FINAL DRAWINGS AND/OR CIVIL FINAL DRAWING FOR TAMPER SWITCH FOR PIV VALVE. PROVIDE MONITORING MODULES AS REQUIRED FOR SPRINKLER SYSTEM.
		 5. FOR ELEVATOR SYSTEM: PROVIDE ELEVATOR CAPTURE SIGNALS PER N.C. DEPARTMENT OF LABOR REQUIREMENTS. WHERE SPRINKLER HEADS ARE LOCATED IN ELEVATOR ROOM AND ELEVATOR PIT, PROVIDE ELEVATOR SHUNT TRIP ACTIVATION PER N.C. DEPARTMENT OF LABOR REQUIREMENTS. PROVIDE RELAYS AND MODULES AS REQUIRED TO OPERATE SHUNT TRIP BREAKER. NO OTHER DEVICES SHALL AFFECT ELEVATOR OPERATIONS.
		16. THE FIRE ALARM SYSTEM BATTERY SHALL HAVE CAPACITY TO POWER THE FIRE ALARM SYSTEM FOR NOT LESS THAN 60 HOURS PLUS 5 MINUTES OF ALARM PER THE SCO FIRE ALARM GUIDELINES.
		17. PROVIDE SEISMIC RESTRAINT AS REQUIRED PER ASCE 7-10 CHAPTER 13. SEE APPENDIX B FOR SEISMIC DESIGN CATEGORY AND RISK FACTOR INFORMATION.



KEY NOTES

() DONOR ANTENNAS CABLE IN 2" CONDUIT.

- (2) PROVIDE LIGHTNING ARRESTOR, GROUNDED AS REQUIRED.
- (3) DONOR ANTENNA MAST. TO BE BONDED TO BUILDING STEEL.
- (4) DONOR ANTENNA.
- (5) DISTRIBUTED ANTENNA SYSTEM (DAS) CABLE.
- 6 PROVIDE SIGNAL SPLITTER AS REQUIRED.
- 7 PROVIDE DAS ANTENNA(S) AS REQUIRED FOR COVERAGE. FILED VERIFY LOCATION AND INSTALLATION OUTSIDE FIRE RISER ROOM WITH ARCHITECT PRIOR TO ROUGH-IN.
- (8) BATTERY CABLE IN CONDUIT.
- 9 BATTERY BOX: 24VDC
- (1) REMOTE ANNUNCIATOR CIRCUIT IN CONDUIT.
- REMOTE ANNUNCIATOR. LOCATE ADJACENT TO FACP ANNUNCIATOR IN RECEPTION.
- (12) FIRE ALARM DEVICE AND WIRING. SEE FIRE ALARM RISER DIAGRAM.

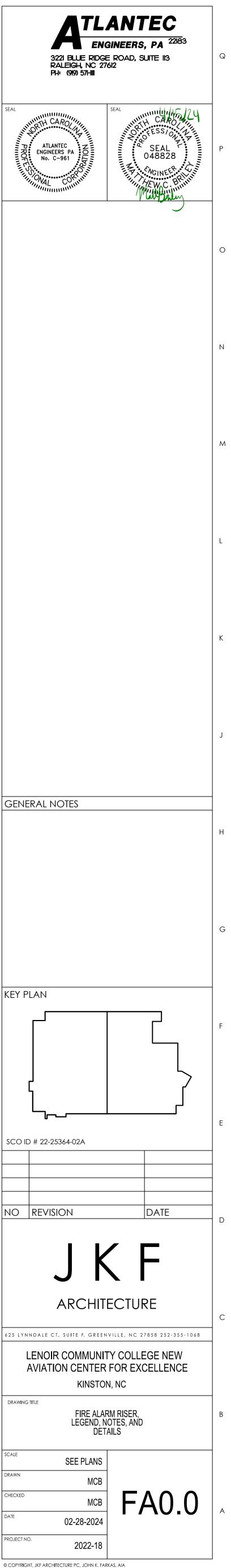
NOTES

- CONTRACTOR SHALL PROVIDE PRICES FOR BI-DIRECTIONAL ANTENNA SYSTEM (BDA) AS FOLLOWS: A. SYSTEM REQUIREMENT EVALUATION:
- a. PROVIDE RF SURVEY AND MAP THE EMERGENCY RESPONDER RADIO SIGNAL STRENGTH (OUTSIDE) AT THE PROPERTY (RAW SURVEY)
- A REGISTERED DESIGN PROFESSIONAL SHALL REVIEW THE EMERGENCY RESPONDER RADIO SIGNAL STRENGTH OUTSIDE (ER-RSS OUTISDE) SURVEY AND BUILDING CONSTRUCTION PLANS TO DETERMINE THAT THE MINIMUM EMERGENCY RESPONDER RADIO SIGNAL STRENGTH INSIDE (ER-RSS INSIDE) WILL LIKELY BE AVAILABLE IN THE PROPOSED BUILDING.
- WHEN THE DESIGN PROFESSIONAL DETERMINES THAT A DBA OR RCS SYSTEM WILL NOT BE REQUIRED, SUBMIT EVALUATION TO THE LOCAL FIRE MARSHAL OFFICE FOR APPROVAL. <u>DO NOT INSTALL THE BDA SYSTEM PER PLAN.</u>
- WHEN THE DESIGN PROFESSIONAL DETERMINES THAT A DBA OR RCS SYSTEM WILL BE REQUIRED, <u>SEE SYSTEM</u> INSTALLATION. B. SYSTEM INSTALLATION:
- a. FURNISH SHOP DRAWINGS INCLUDING THE RADIO WAVE PROPAGATION PLAN TO THE LOCAL FIRE MARSHAL OFFICE FOR APPROVAL.
- b. PROVIDE INSTALLATION PLAN.
- c. PRIOR TO FINAL INSPECTION, AN ER-RSS INSIDE SURVEY SHALL BE PERFORMED AND MAPPED. THIS SHALL BE SUBMITTED TO THE ENGINEER AND THE LOCAL FIRE MARSHAL OFFICE.
- 2. SHOWN DIAGRAM IS A GUIDE LINE. IF THE INSTALLATION IS REQUIRED UPON SURVEY CONTRACTOR SHALL PROVIDE INSTALLATION PER SPECIFICATIONS AND MANUFACTURER INSTRUCTION.
- 3. INSTALLATION SHALL COMPLY WITH 2018 NC FIRE CODE, 2019 NFPA 72 AND 2016 NFPA 1221.
- 4. CONTRACTOR TO INCLUDE AND INSTALL ALL CONDUIT FOR DONOR AND DISTRIBUTED ANTENNAS IN THE BASE BID. SEE ARCHITECTURAL FOR ALLOWANCES.

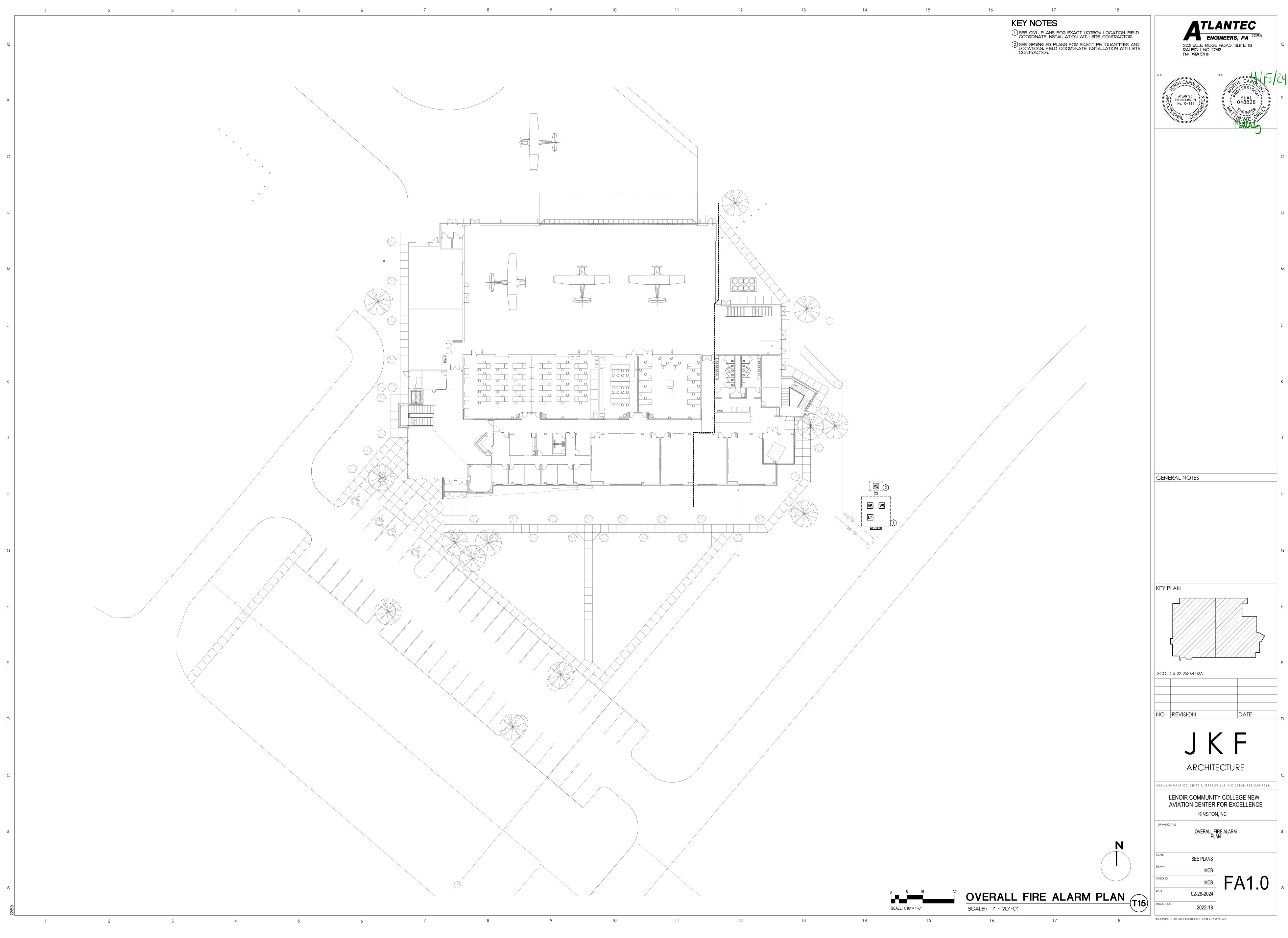
BI-DIRECTIONAL ANTENNA SYSTEM DETAIL (T15)

NOT TO SCALE

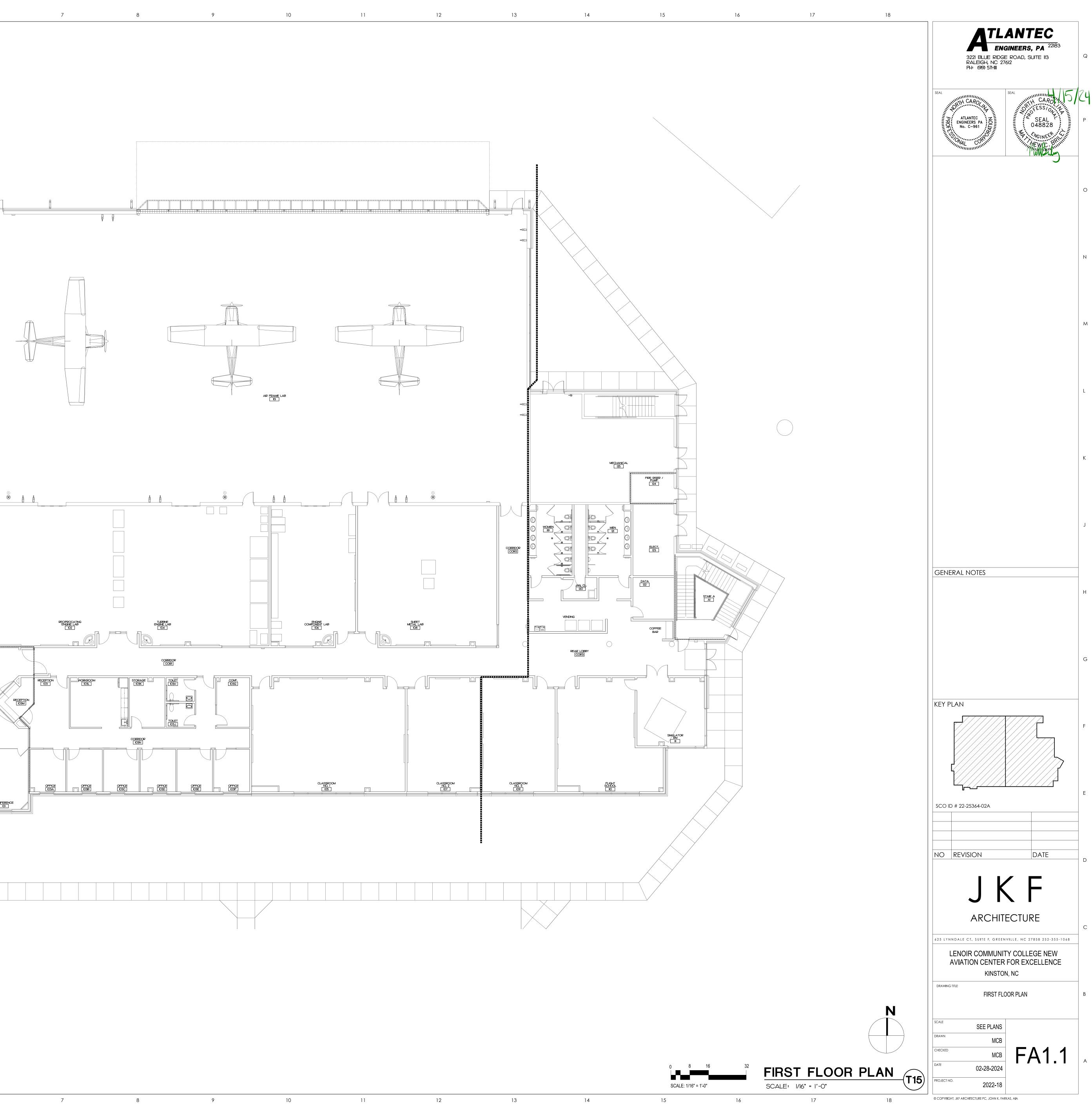
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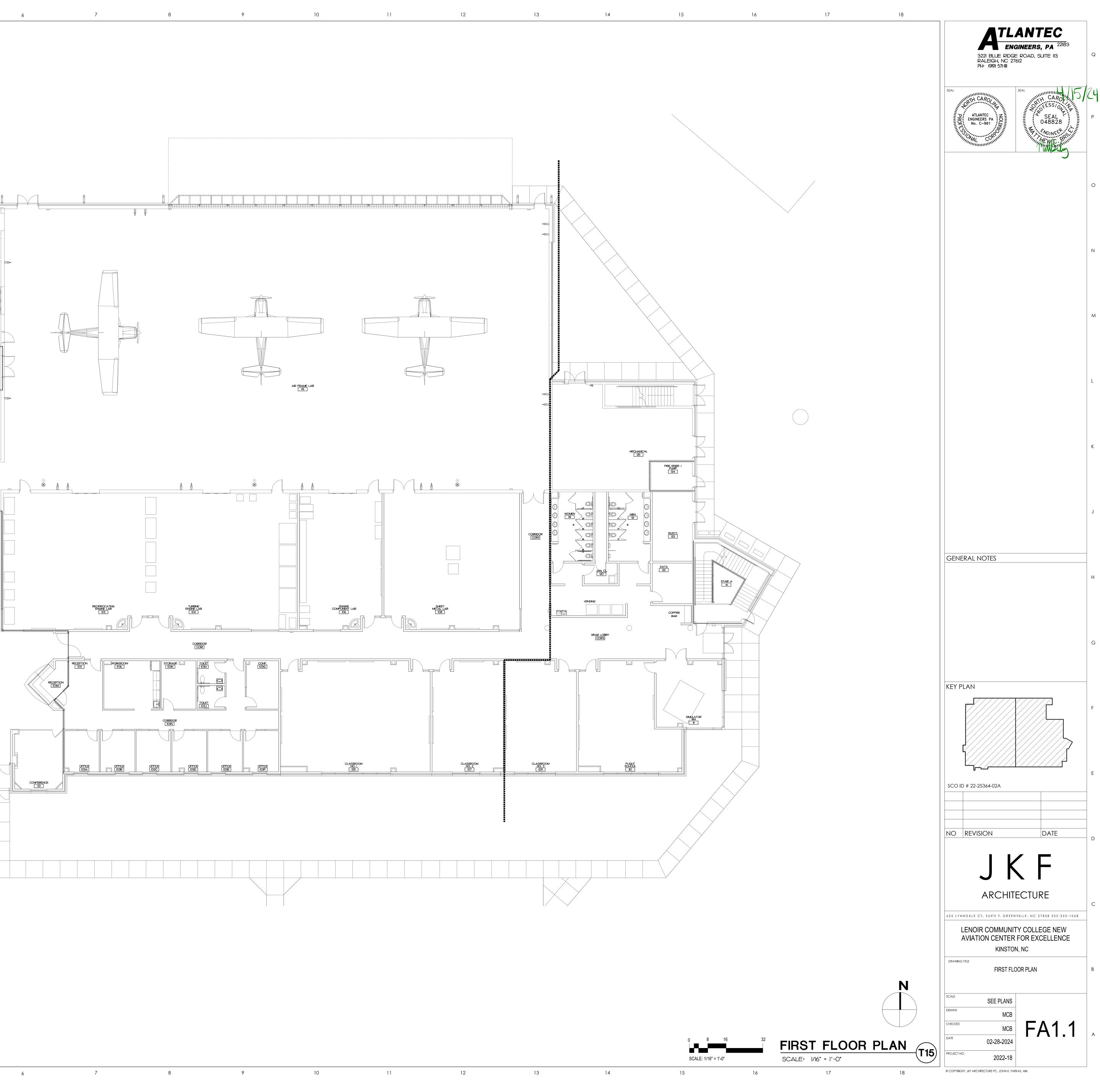


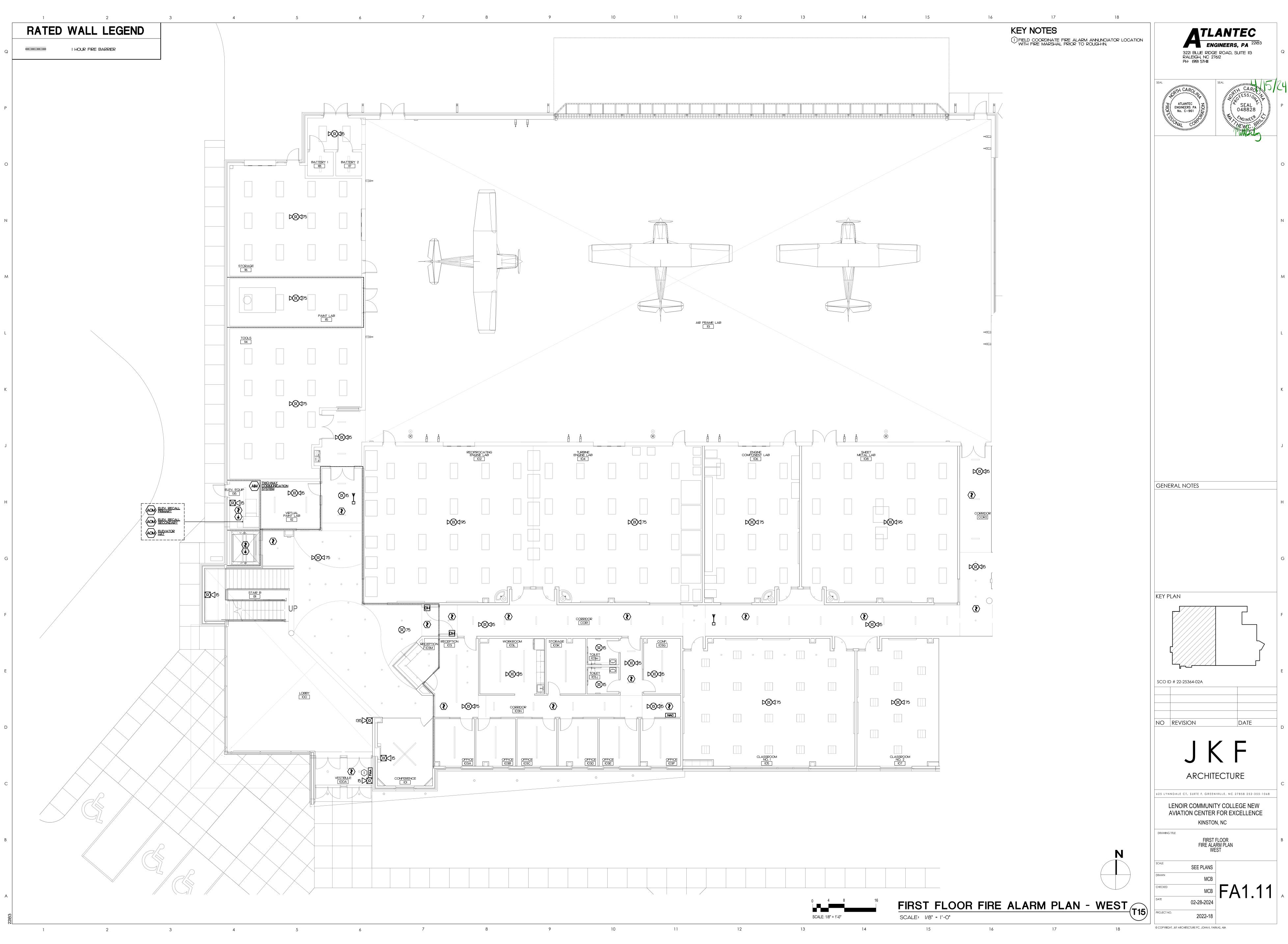
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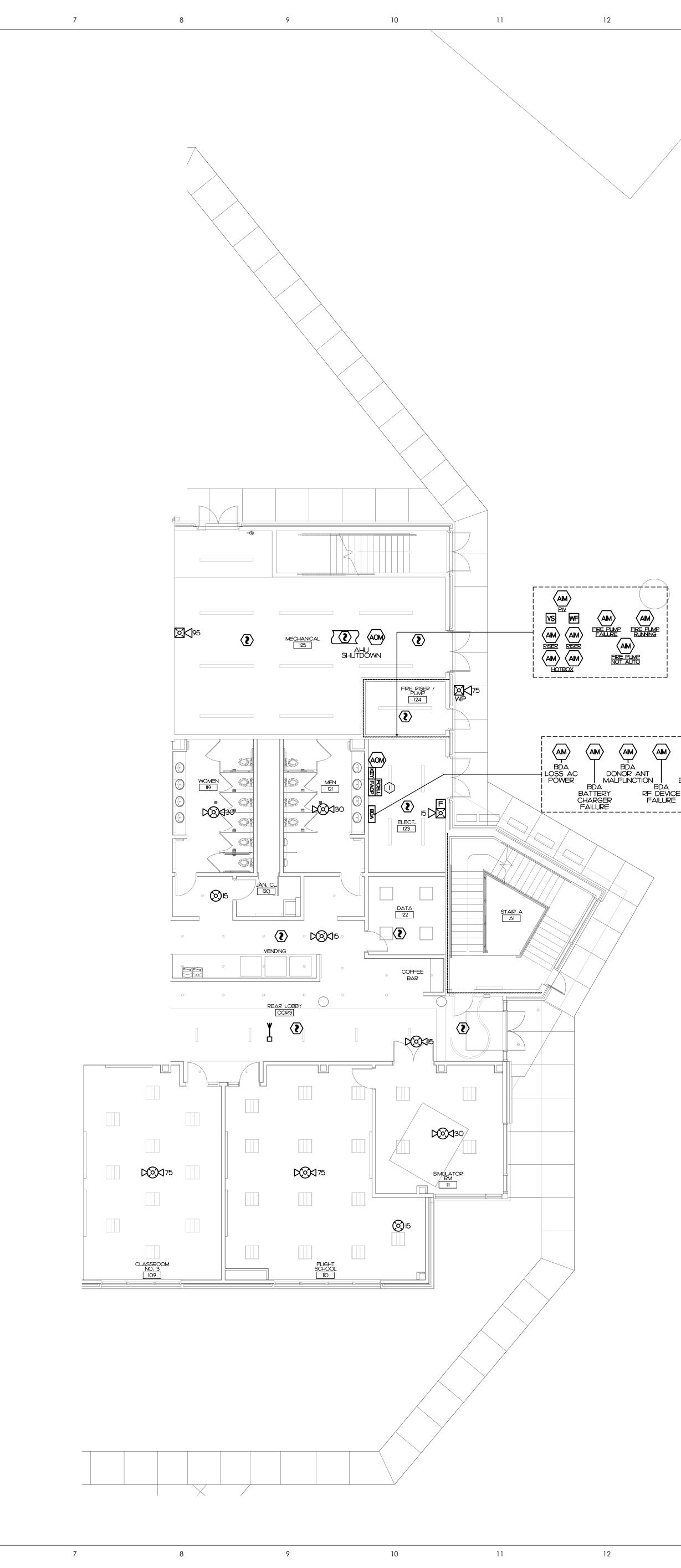


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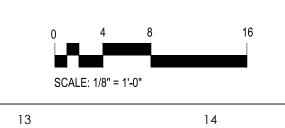
16 17 18 KEY NOTES FIELD COORDINATE FIRE ALARM CONTROL PANEL LOCATION WITH FIRE MARSHAL PRIOR TO ROUGH-IN. (2) INSTALL IF REQUIRED. SEE TI5/FA0.0 FOR DETAILS.

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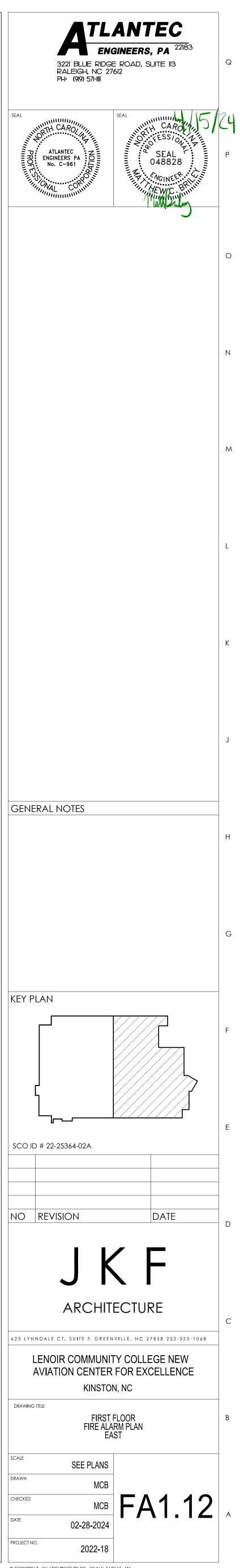
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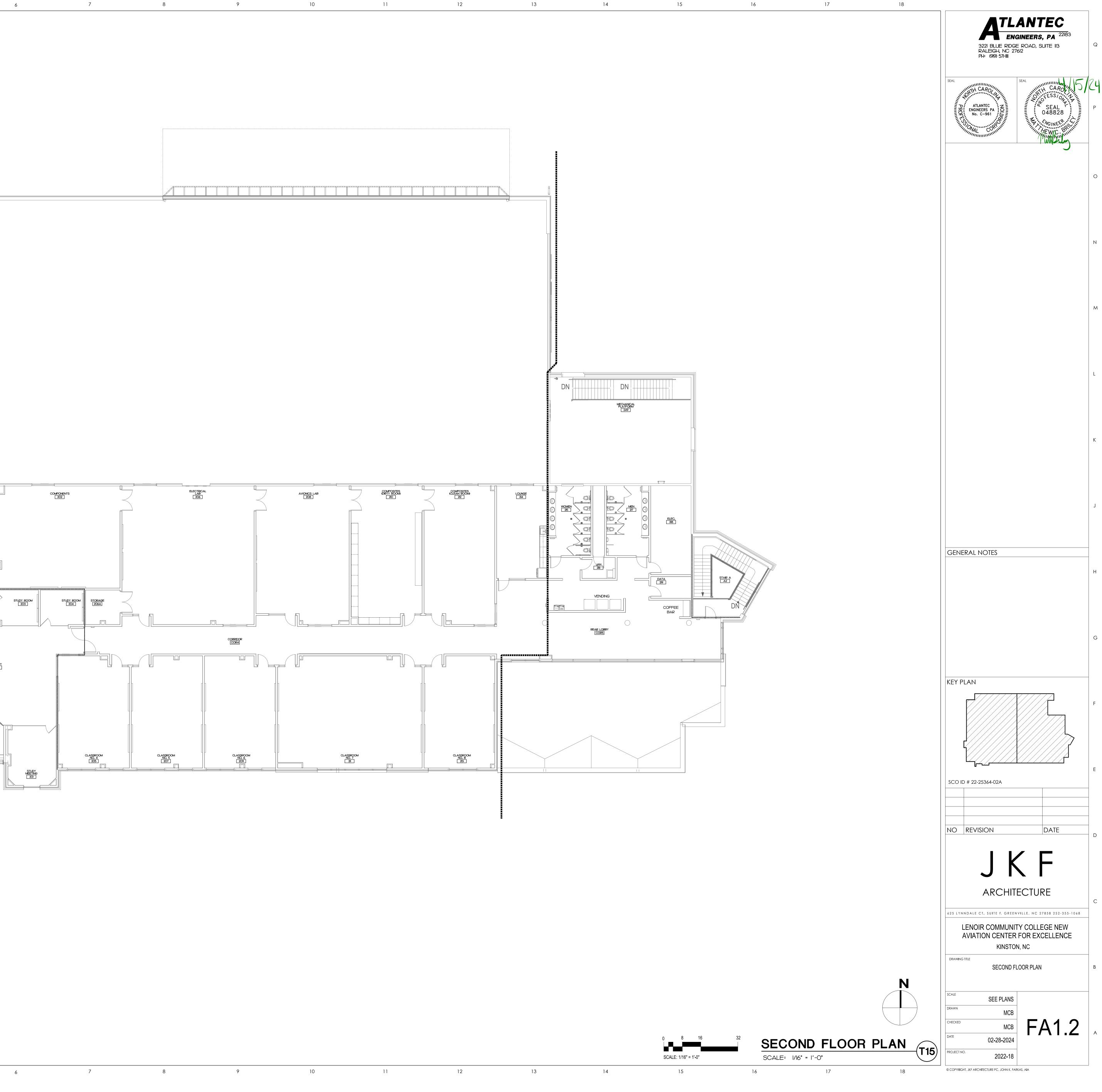
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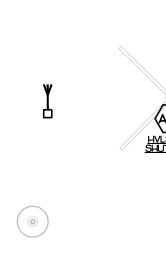
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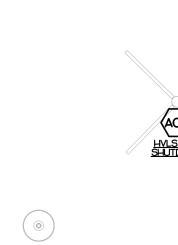


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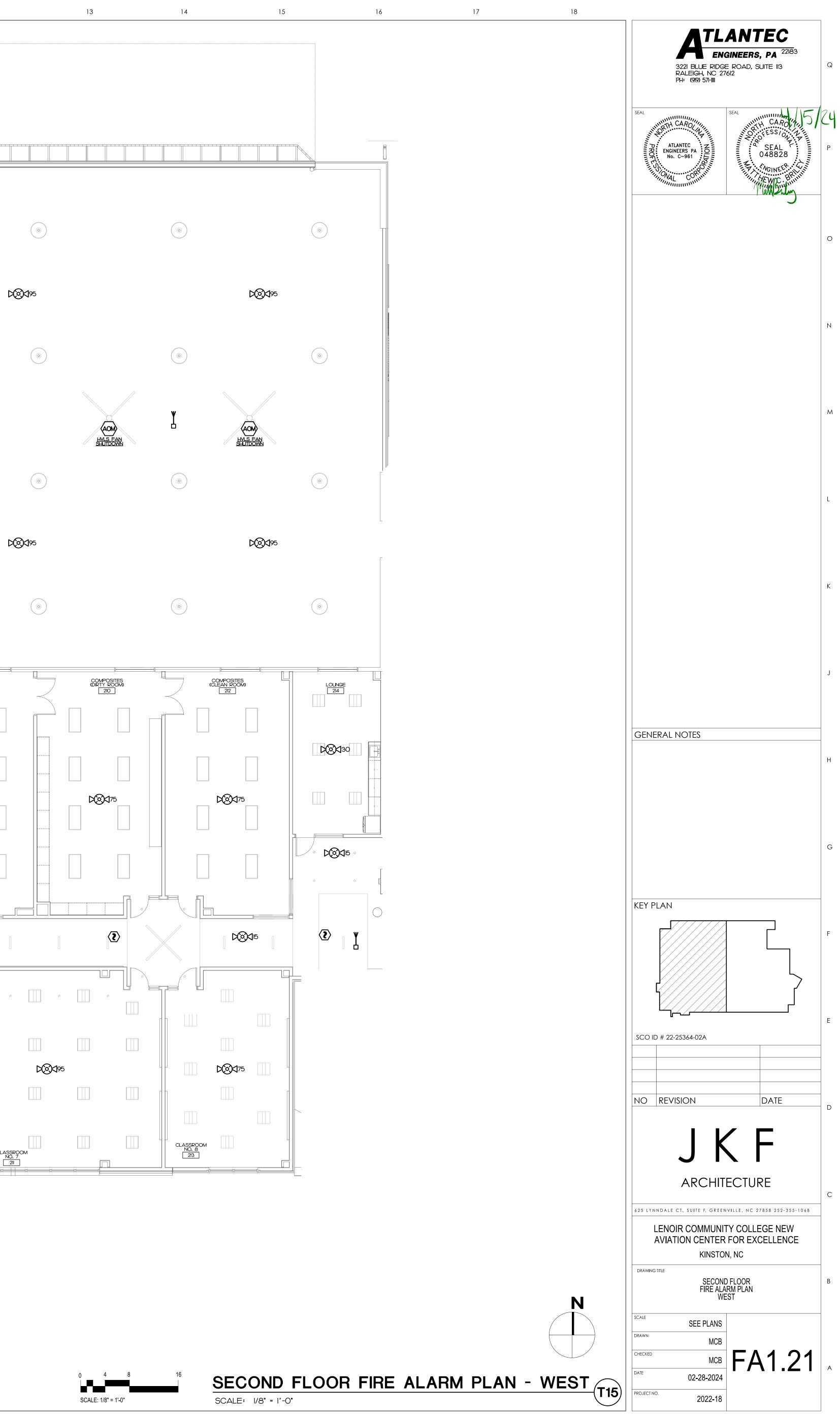
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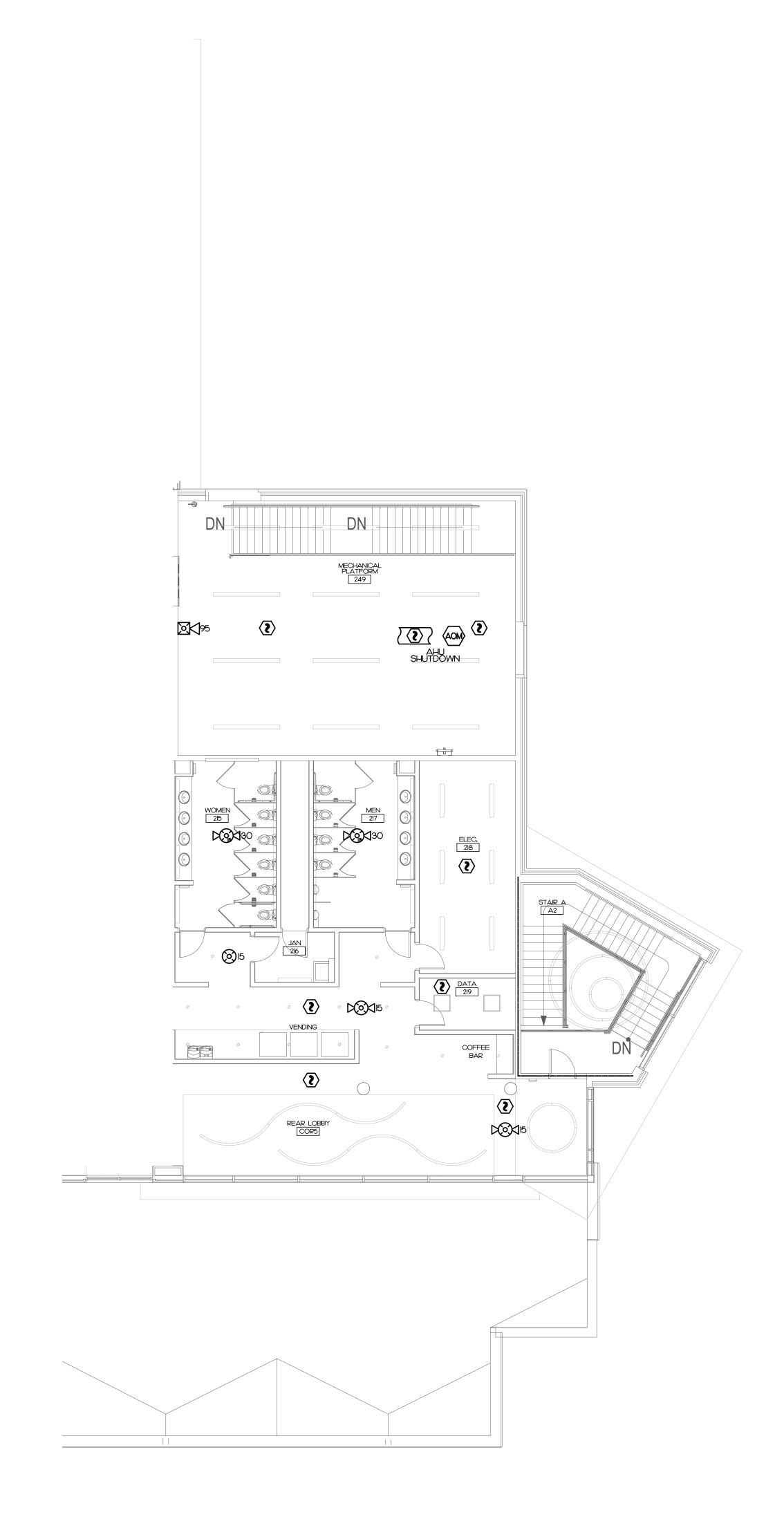
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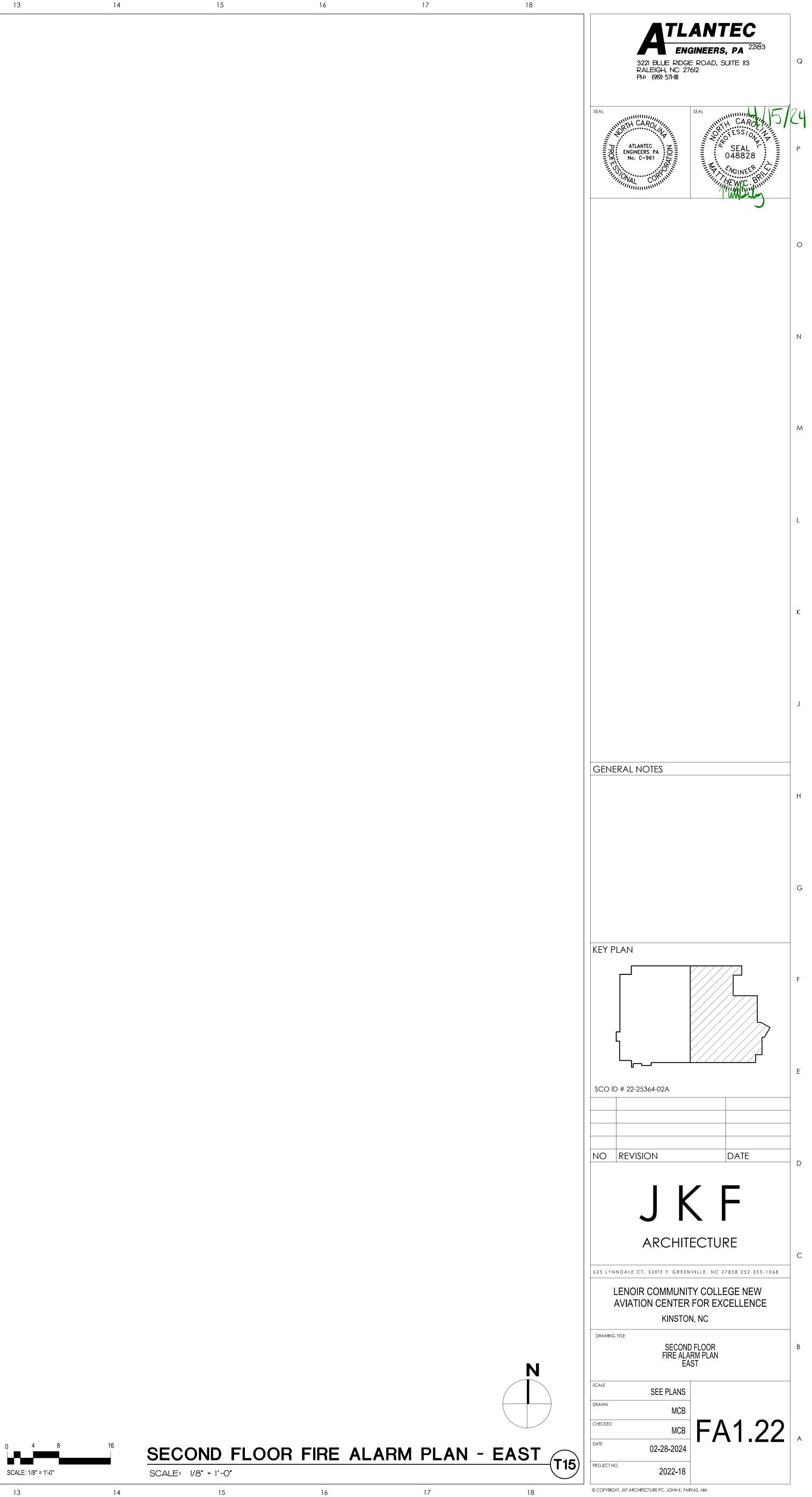
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