













DIRECT EXPANSION COOLING COIL SCHEDULE																					
MARK	LOCATION	AREA AND/OR BLDG SERVED	SYSTEM AND/OR SERVICE	AIR FLOW		MAX FACE VELOCITY		APD				TOTAL CAPACITY		SENSIBLE CAPACITY		REFRIGERANT		SATURATED SUCTION TEMP		REMARKS	
				CFM	[L/s]	FPM	[M/s]	IN WG	[Pa]	TEMPERATURES		MBH	[kW]	MBH	[kW]	°F	[°C]				
										°F	[°C]										
7-C01	7-AHU-1	BSMT1ST NORTH	7-AHU-1, 7-CU1-1	1125	[-]	500	[-]	0.39	[-]	78/64	[-]	55/54	[-]	43	[-]	33	[-]	R-410a	45	[-]	--
7-C02	7-AHU-2	BSMT1ST CENTER	7-AHU-2, 7-CU1-2	1690	[-]	500	[-]	0.34	[-]	78/64	[-]	55/54	[-]	57	[-]	44	[-]	R-410a	45	[-]	--
7-C03	7-AHU-3	BSMT1ST SOUTH	7-AHU-3, 7-CU1-3	1340	[-]	500	[-]	0.34	[-]	78/64	[-]	55/54	[-]	46	[-]	35	[-]	R-410a	45	[-]	--
7-C04	7-AHU-4	2NDIATTC NORTH	7-AHU-4, 7-CU1-4	1750	[-]	500	[-]	0.40	[-]	78/64	[-]	55/54	[-]	54	[-]	42	[-]	R-410a	45	[-]	--
7-C05	7-AHU-5	2NDIATTC SOUTH	7-AHU-5, 7-CU1-5	1750	[-]	500	[-]	0.40	[-]	78/64	[-]	55/54	[-]	54	[-]	42	[-]	R-410a	45	[-]	--

AIR COOLED CONDENSING UNIT SCHEDULE																					
MARK	LOCATION	SYSTEM AND/OR SERVICE	CAPACITY		SUCTION TEMP		AMBIENT AIR		MAX COND TEMP		COMPRESSOR MOTOR			CONDENSER FAN MOTOR			REMARKS				
			MBH	[kW]	F	[C]	F	[C]	F	[C]	# COMP	POWER RLA [kW]	PHASE	VOLT	# COND FAN	POWER HP [kW]		PHASE	VOLT		
7-CU1	NE LAWN	7-AHU-1	48.0	[-]	45	[-]	105	[-]	105	[-]	1	20.2	[-]	1	208	1	0.33	[-]	1	208	INSTALL ON CURB PER SPEC.
7-CU2	NE LAWN	7-AHU-2	60.0	[-]	45	[-]	105	[-]	105	[-]	1	26.0	[-]	1	208	1	0.33	[-]	1	208	INSTALL ON CURB PER SPEC.
7-CU3	NE LAWN	7-AHU-3	48.0	[-]	45	[-]	105	[-]	105	[-]	1	20.2	[-]	1	208	1	0.33	[-]	1	208	INSTALL ON CURB PER SPEC.
7-CU4	NE LAWN	7-AHU-4	60.0	[-]	45	[-]	105	[-]	105	[-]	1	26.0	[-]	1	208	1	0.33	[-]	1	208	INSTALL ON CURB PER SPEC.
7-CU5	NE LAWN	7-AHU-5	60.0	[-]	45	[-]	105	[-]	105	[-]	1	26.0	[-]	1	208	1	0.33	[-]	1	208	INSTALL ON CURB PER SPEC.

AIR DEVICE SCHEDULE (SUPPLY)																
MARK	TYPE	AIR FLOW				MAX APD	MOUNTING	PANELFRAME SIZE		NECK SIZE		NC	DAMPER	FINISH	REMARKS	
		CFM	[L/s]	CFM	[L/s]			IN x IN	[mm x mm]	IN	[mm]					
SD-11	LOUVERED FACE	100	[-]	225	[-]	0.080	[-]	CEILING	12 x 12	[300 x 300]	8" DIAM	[- DIAM]	22	-	WHITE	--
SD-12	LOUVERED FACE	100	[-]	225	[-]	0.080	[-]	CEILING	24 x 24	[600 x 600]	8" DIAM	[- DIAM]	22	-	WHITE	--
SD-13	LOUVERED FACE	250	[-]	325	[-]	0.080	[-]	CEILING	24 x 24	[600 x 600]	10" DIAM	[- DIAM]	22	-	WHITE	--
SD-14	LOUVERED FACE	350	[-]	500	[-]	0.080	[-]	CEILING	24 x 24	[600 x 600]	12" DIAM	[- DIAM]	22	-	WHITE	--
SD-51	SUPPLY REGISTER	25	[-]	75	[-]	0.050	[-]	SURFACE	6 x 6	[-]	6 x 6	[-]	18	-	WHITE	--
SD-52	SUPPLY REGISTER	100	[-]	150	[-]	0.050	[-]	SURFACE	8 x 8	[-]	8 x 8	[-]	18	-	WHITE	--
SD-53	SUPPLY REGISTER	175	[-]	250	[-]	0.050	[-]	SURFACE	10 x 8	[-]	10 x 8	[-]	18	-	WHITE	--
SD-54	SUPPLY REGISTER	175	[-]	250	[-]	0.050	[-]	SURFACE	14 x 6	[-]	14 x 6	[-]	18	-	WHITE	--
SD-61	SUPPLY REGISTER	25	[-]	100	[-]	0.040	[-]	FLOOR	12 x 4	[-]	12 x 4	[-]	20	-	ALUMINUM	A
SD-62	SUPPLY REGISTER	100	[-]	130	[-]	0.040	[-]	FLOOR	12 x 5	[-]	12 x 5	[-]	20	-	ALUMINUM	A
SD-63	SUPPLY REGISTER	150	[-]	250	[-]	0.040	[-]	FLOOR	24 x 5	[-]	24 x 5	[-]	20	-	ALUMINUM	A
SD-64	SUPPLY REGISTER	100	[-]	130	[-]	0.040	[-]	FLOOR	12 x 5	[-]	12 x 5	[-]	20	OBD	ALUMINUM	A

**NOTES**  
1. SEE FLOOR PLAN FOR THROW PATTERN.  
2. SEE DETAIL FOR DAMPER IN BRANCH DUCT SERVING EACH DIFFUSER.  
3. PROVIDE SQUARE TO ROUND ADAPTER.  
A. PROVIDE FLOOR REGISTER WITH "NO FLANGE FLUSH MOUNT" BORDER ON SURFACES WITHOUT CARPET OR PROVIDE WITH "CARPET CLAMP FLANGE" BORDER ON CARPETED SURFACES. PROVIDE WITH HEAVY DUTY CORE, 1/4" SPACING BETWEEN BARS, 15 DEG. DEFLECTION.

LOUVER SCHEDULE												
MARK	TYPE	MATERIAL	APPROX. SIZE	DEPTH	FINISH	USE	DESIGN CFM	MAX APD	MIN. FREE AREA	ELEVATION	MAX. WATER PENETRATION OUNCES / SF AT 1000 FPM	REMARKS
7-L-2	STATIONARY	ALUM	10x20	4	MILL	INTAKE	160	0.15	0.83	8'AFF	0.00	FIELD PAINTABLE
7-L-3	STATIONARY	ALUM	10x20	4	MILL	INTAKE	160	0.15	0.83	8'AFF	0.00	FIELD PAINTABLE

1. ARCHITECT TO SELECT COLOR FOR FIELD PAINTING OF LOUVER.  
NOTE A - TOP OF LOUVER SHALL BE 6" AWAY FROM TOP OF ENTRY ALCOVE CEILING.

FAN SCHEDULE																									
MARK	LOCATION	AREA AND/OR BLDG SERVED	SYSTEM AND/OR SERVICE	AIR FLOW		TSP		FAN						MOTOR ELECTRICAL					CONTROL SEQUENCE	REMARKS					
				CFM	[L/s]	IN	[Pa]	TYPE	WHEEL	CLASS	ARRANGEMENT, ROTATION, AND DISCHARGE	DIAMETER IN [mm]	MIN % EFF	DRIVE	FAN MAX RPM	NOMINAL POWER					VOLT	PHASE	RPM	SPEED CONTROL	
																AMPS	HP	[W]							
7-FF-1	CEILING	1ST FLR RR	GEN. EXHAUST	100	[-]	0.25	[-]	CEILING	--	--	SIDEWALL WALL CAP DISCHARGE	--	[-]	--	DIRECT	--	0.20	--	8.4	120	1	--	1	INTERLOCK WITH LIGHT	1
7-FF-2	CEILING	1ST FLR RR	GEN. EXHAUST	100	[-]	0.25	[-]	CEILING	--	--	SIDEWALL WALL CAP DISCHARGE	--	[-]	--	DIRECT	--	0.20	--	8.4	120	1	--	1	INTERLOCK WITH LIGHT	1
7-FF-3	CEILING	2ND FLR RR	GEN. EXHAUST	205	[-]	0.25	[-]	CEILING	--	--	SIDEWALL WALL CAP DISCHARGE	--	[-]	--	DIRECT	--	0.45	--	54.2	120	1	--	1	INTERLOCK WITH LIGHT	1
7-FF-4	CEILING	BSMT HSKPG	GEN. EXHAUST	100	[-]	0.25	[-]	CEILING	--	--	SIDEWALL WALL CAP DISCHARGE	--	[-]	--	DIRECT	--	0.20	--	8.4	120	1	--	1	INTERLOCK WITH LIGHT	1
7-RH-1	ROOF	7-AHU-3, 7-AHU-4	OUTDOOR AIR	455	[-]	--	[-]	--	--	--	--	[-]	--	--	--	--	--	--	--	--	--	--	--	--	2
7-TF-1	INLINE	ATTIC	ELEV. EXHAUST	100	[-]	0.25	[-]	INLINE	--	--	OPEN DISCHARGE COVERED WITH METAL MESH	--	[-]	--	DIRECT	--	--	120	58	120	1	--	1	RUN CONTINUOUSLY	3

**REMARKS**  
1. FAN BASED ON LOW-PROFILE (7" DEEP) CEILING EXHAUST FAN WITH ROUND DUCT CONNECTION. ROUND DUCT TO CONNECT AND ROUTE TO BUILDING EXTERIOR WALL FOR SIDEWALL DISCHARGE THROUGH WALL CAP. WALL CAP TO BE ALUMINUM FINISH, FIELD-PAINTABLE, AND PROVIDED WITH BIRD SCREEN AND BACKDRAFT DAMPER. ARCHITECT TO APPROVE GRILLE OPTION OF CEILING EXHAUST FAN IN SUBMITTALS. EXHAUST FAN SHALL BE INTERLOCKED WITH WALL LIGHT SWITCH. UPON ACTIVATION OF ROOM LIGHTS, FAN SHALL TURN ON.  
2. GRAVITY INTAKE HOOD MOUNTED ON ROOF WITH BACKDRAFT DAMPER AND BIRDSCREEN.  
3. FAN BASED ON INLINE CENTRIFUGAL EXHAUST FAN. PROVIDE WITH FAN SPEED CONTROLLER MOUNTED IN ACCESSIBLE LOCATION FOR BALANCING PURPOSES. FAN TO BE WIRED TO RUN CONTINUOUSLY. BID ITEM NOTE: FAN TO BE OMITTED UNDER BID ITEM 5.  
**NOTE**  
ALL SELECTIONS ARE BASED ON AN ALTITUDE OF 1299 FT.

AIR DEVICE SCHEDULE (RETURN)																
MARK	TYPE	AIR FLOW				MAX APD	MOUNTING	PANELFRAME SIZE		NECK SIZE		NC	DAMPER	FINISH	REMARKS	
		CFM	[L/s]	CFM	[L/s]			IN x IN	[mm x mm]	IN x IN	[mm x mm]					
RG-21	PERFORATED	50	[-]	700	[-]	0.040	[-]	CEILING	24 x 12	[600 x 300]	22 x 10	[-]	13	NONE	WHITE	--
RG-22	PERFORATED	700	[-]	1500	[-]	0.040	[-]	CEILING	24 x 24	[600 x 600]	22 x 22	[-]	26	NONE	WHITE	--
RR-61	REGISTER	0	[-]	230	[-]	0.040	[-]	FLOOR	12 x 6	[-]	12 x 6	[-]	20	NONE	ALUMINUM	1
RR-62	REGISTER	0	[-]	460	[-]	0.040	[-]	FLOOR	24 x 6	[-]	24 x 6	[-]	20	NONE	ALUMINUM	1
RR-63	REGISTER	0	[-]	690	[-]	0.040	[-]	FLOOR	36 x 6	[-]	36 x 6	[-]	20	NONE	ALUMINUM	1
RR-64	REGISTER	0	[-]	100	[-]	0.040	[-]	SURFACE	8 x 8	[-]	6 x 6	[-]	13	NONE	ALUMINUM	--

**NOTE**  
1. PROVIDE FLOOR REGISTER WITH "NO FLANGE FLUSH MOUNT" ON HARD SURFACES OR "CARPET CLAMP FLANGE" ON CARPETED SURFACES. PROVIDE WITH HEAVY DUTY CORE, 1/4" SPACING BETWEEN BARS, 15 DEG DEFLECTION.

AIR HANDLING UNIT SCHEDULE																						
MARK	LOCATION	AREA AND/OR BLDG SERVED	TYPE	EXTERNAL STATIC PRESSURE	AIR FLOW						SUPPLY FAN	RETURN AIR FAN MARK	EXHAUST FAN MARK	FILTER	AFTER FILTER MARK	FINAL FILTER MARK	HEAT RECOVERY MARK	PREHEAT COIL MARK	COOLING COIL MARK	REHEAT COIL MARK	HUMIDIFIER MARK	REMARKS
					SUPPLY		MIN OA		RETURN													
					CFM	[L/s]	CFM	[L/s]	CFM	[L/s]												
7-AHU-1	BLDG 7 BASEMENT	BASEMENT 1ST FLR NORTH	INDOOR UPRIGHT, VERTICAL DISCHARGE	0.75	1225	[-]	147	[-]	1078	[-]	1.5 HP, 208V1	--	--	2" FLAT, MERV 8	--	--	--	7-4C1	7-C01	--	--	1, 2
7-AHU-2	BLDG 7 BASEMENT	BASEMENT 1ST FLR CENTER	INDOOR UPRIGHT, VERTICAL DISCHARGE	0.75	1690	[-]	203	[-]	1487	[-]	1.5 HP, 208V1	--	--	2" FLAT, MERV 8	--	--	--	7-4C2	7-C02	--	--	1, 2
7-AHU-3	BLDG 7 BASEMENT	BASEMENT 1ST FLR SOUTH	INDOOR UPRIGHT, VERTICAL DISCHARGE	0.75	1340	[-]	160	[-]	1180	[-]	1.5 HP, 208V1	--	--	2" FLAT, MERV 8	--	--	--	7-4C3	7-C03	--	--	1, 2
7-AHU-4	BLDG 7 ATTIC	2ND FLR ATTIC NORTH	INDOOR HORIZONTAL, SIDE DISCHARGE	0.75	1750	[-]	210	[-]	1540	[-]	1.0 HP, 208V1	--	--	2" FLAT, MERV 8	--	--	--	7-4C4	7-C04	--	--	1, 3
7-AHU-5	BLDG 7 ATTIC	2ND FLR ATTIC SOUTH	INDOOR HORIZONTAL, SIDE DISCHARGE	0.75	1750	[-]	210	[-]	1540	[-]	1.0 HP, 208V1	--	--	2" FLAT, MERV 8	--	--	--	7-4C5	7-C05	--	--	1, 3

**REMARKS**  
1. THE AHU WILL CONTAIN THE FOLLOWING COMPONENTS: FILTER BANK, PLANT STEAM HEATING COIL, DX COOLING COIL, SUPPLY FAN, AND DISCHARGE OUTLET.  
2. AHU TO HAVE VERTICAL SUPPLY DISCHARGE, OFF TOP OF UNIT.  
3. AHU TO HAVE HORIZONTAL SUPPLY DISCHARGE, OFF FRONT OF UNIT.

STEAM HEATING COIL SCHEDULE																										
MARK	LOCATION	AREA AND/OR BLDG SERVED	SYSTEM AND/OR SERVICE	APPLICATION	AIR FLOW		MAX FACE VELOCITY		APD		TEMPERATURES		TOTAL MIN CAPACITY		STEAM					REMARKS						
					CFM	[L/s]	FPM	[M/s]	IN WG	[Pa]	°F	[°C]	°F	[°C]	MBH	[kW]	ENT CONT VALVE		ENT COIL		FLOW		STEAM TRAP			
																	PSIG	[kPa]	PSIG		[kPa]	LBS/HR	[kg/HR]	MARK	LBS/HR	[kg/HR]
7-4C1	7-AHU-1	BSMT1ST NORTH	7-AHU-1	HEATING	1225	[-]	500	[-]	0.20	[-]	60	[-]	95	[-]	48	[-]	12	[-]	5	[-]	51	[-]	7-7P1	100	[-]	--
7-4C2	7-AHU-2	BSMT1ST SOUTH	7-AHU-2	HEATING	1690	[-]	500	[-]	0.17	[-]	60	[-]	95	[-]	64	[-]	12	[-]	5	[-]	70	[-]	7-7P2	140	[-]	--
7-4C3	7-AHU-3	BSMT1ST SOUTH	7-AHU-3	HEATING	1340	[-]	500	[-]	0.17	[-]	60	[-]	95	[-]	51	[-]	12	[-]	5	[-]	56	[-]	7-7P3	110	[-]	--
7-4C4	7-AHU-4	2NDIATTC NORTH	7-AHU-4	HEATING	1750	[-]	500	[-]	0.37	[-]	60	[-]	95	[-]	84	[-]	12	[-]	5	[-]	92	[-]	7-7P4	180	[-]	--
7-4C5	7-AHU-5	2NDIATTC SOUTH	7-AHU-5	HEATING	1750	[-]	500	[-]	0.51	[-]	60	[-]	95	[-]	84	[-]	12	[-]	5	[-]</						



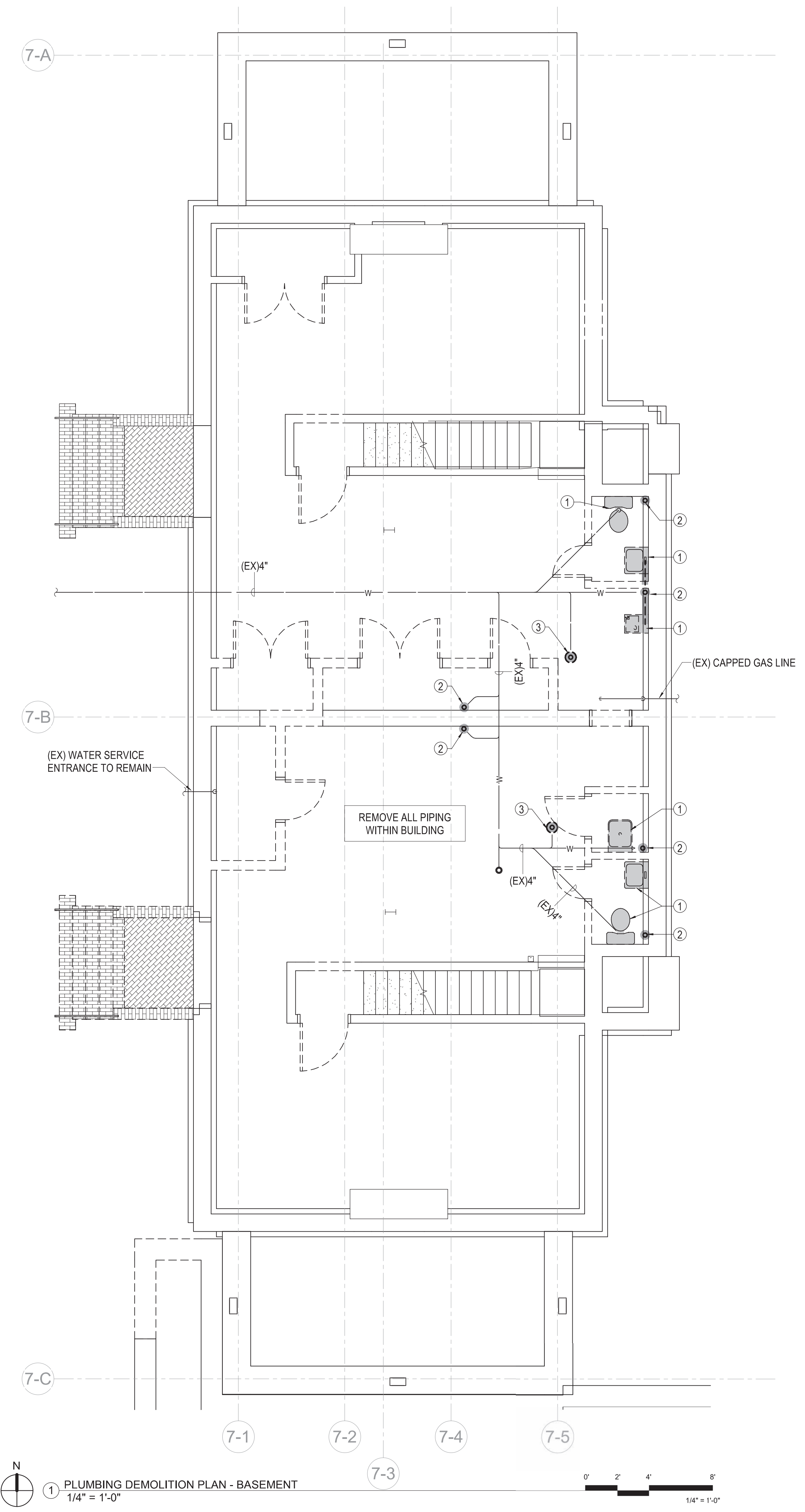




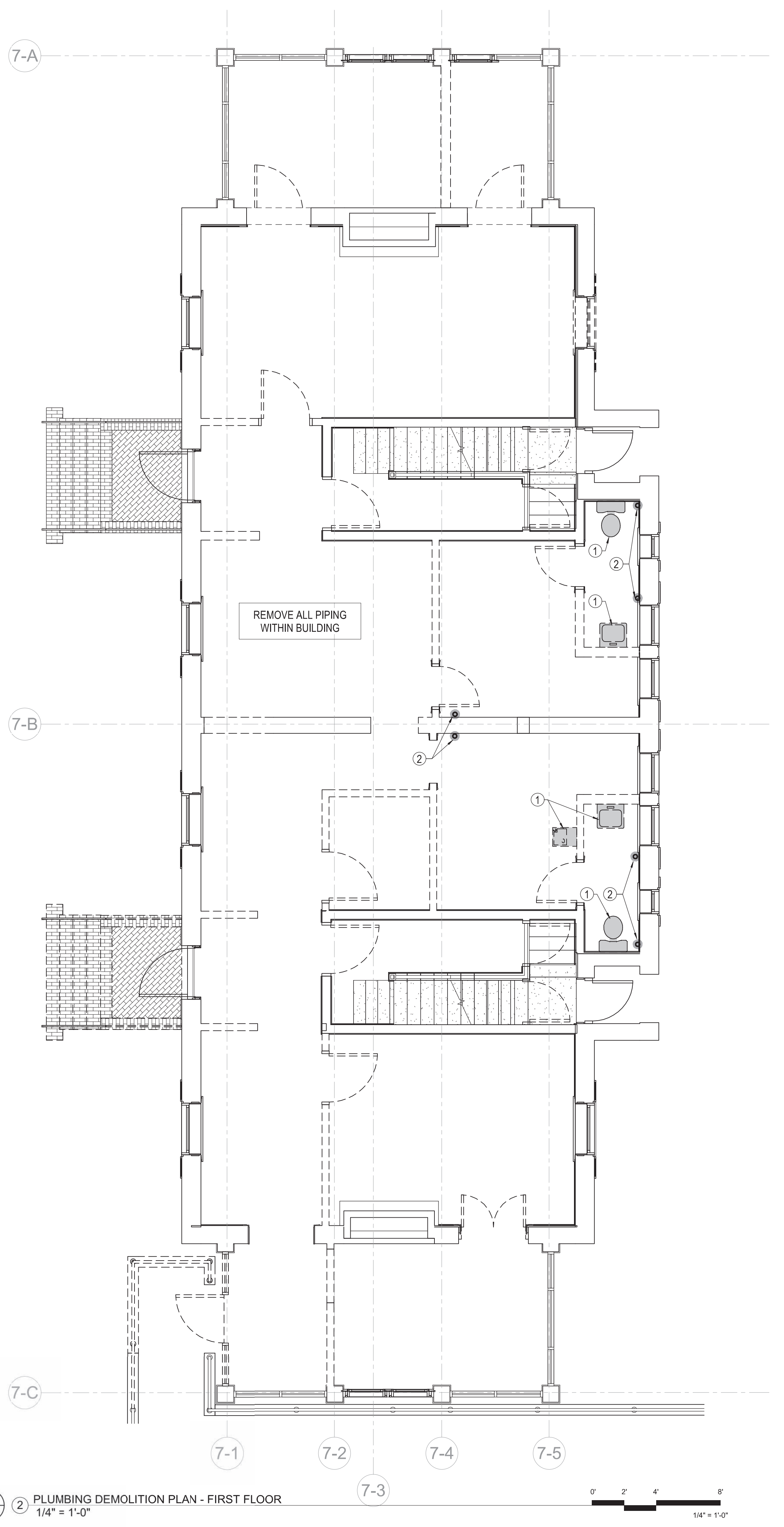




three inches = one foot  
 one and one half inches = one foot  
 one inch = one foot  
 three quarters inch = one foot  
 one half inch = one foot  
 three eighths inch = one foot  
 one quarter inch = one foot  
 one eighth inch = one foot



1 PLUMBING DEMOLITION PLAN - BASEMENT  
1/4" = 1'-0"



2 PLUMBING DEMOLITION PLAN - FIRST FLOOR  
1/4" = 1'-0"

**PLUMBING DEMO NOTES**

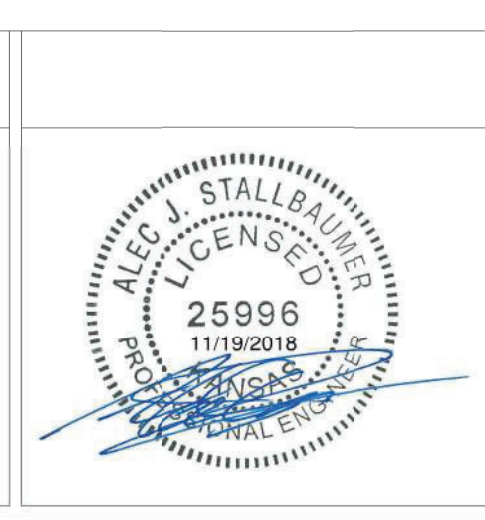
1. PLANS ARE SCHEMATIC IN NATURE. LAYOUT IS BASED ON BEST AVAILABLE INFORMATION. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND DIMENSIONS.
2. ALL CUTTING, PATCHING AND DEMOLITION WORK SHALL BE CLOSELY COORDINATED WITH THE EXISTING CONDITIONS AND THE REQUIRED NEW WORK. G.C. SHALL PATCH AND FINISH PENETRATIONS OF EXISTING SPACES TO MATCH ADJACENT SURFACES.
3. ALL PIPING TO BE REMOVED SHALL BE CAPPED AT THE MAINS UNLESS OTHERWISE NOTED.
4. ALL ACCESSIBLE ABANDONED PIPING SHALL BE REMOVED.
5. ALL PLUMBING FIXTURES, ACCESSORIES, AND PIPING TO BE REMOVED FROM BUILDING.
6. IN BASEMENT, CAP DEMOLISHED WASTE PIPING BELOW CONCRETE FLOOR. REMOVE, REPAIR, AND REPLACE CONCRETE AS REQUIRED.
7. PIPING TO BE REMOVED, BUT IS EMBEDDED WITHIN THE BUILDING STRUCTURE, MAY BE CAPPED AND ABANDONED IN PLACE. CAP BOTH ENDS AND PROVIDE SIGNAGE NOTIFYING STAFF THAT PIPING IS ABANDONED.

**PLAN NOTES**

1. DEMOLISH EXISTING PLUMBING FIXTURE. DEMOLISH ALL ASSOCIATED PIPING BACK TO MAIN AND CAP.
2. EXISTING WASTE STACK TO BE DEMOLISHED. CAP WASTE LINE BELOW BASEMENT FLOOR. REMOVE, REPAIR, AND REPLACE CONCRETE AS REQUIRED.
3. EXISTING FLOOR DRAIN TO BE REMOVED AND WASTE LINE CAPPED BELOW THE FLOOR. REMOVE, REPAIR, AND REPLACE CONCRETE AS REQUIRED.

Revisions:	Date

**CONSULTANTS:**



**ARCHITECT/ENGINEERS:**

**MHEG**  
ARCHITECTURE



Drawing Title  
**PLUMBING DEMOLITION PLANS**

Approved: Project Director

Project Title  
RENOVATE AND MODERNIZE VENTILATION SYSTEMS BLDG. 7  
Contract No.: VA255-17-D-0080  
Task Order No.: 36C25518N1024  
Obligation No.: 589-C81081

Location  
Wichita, Kansas

Date  
11/19/2018

Checked  
CDF

Drawn  
AJS

Project Number  
589A7-18-301

Building Number  
7

Drawing Number  
**PD101**

Dwg.

Office of Construction and Facilities Management

Department of Veterans Affairs



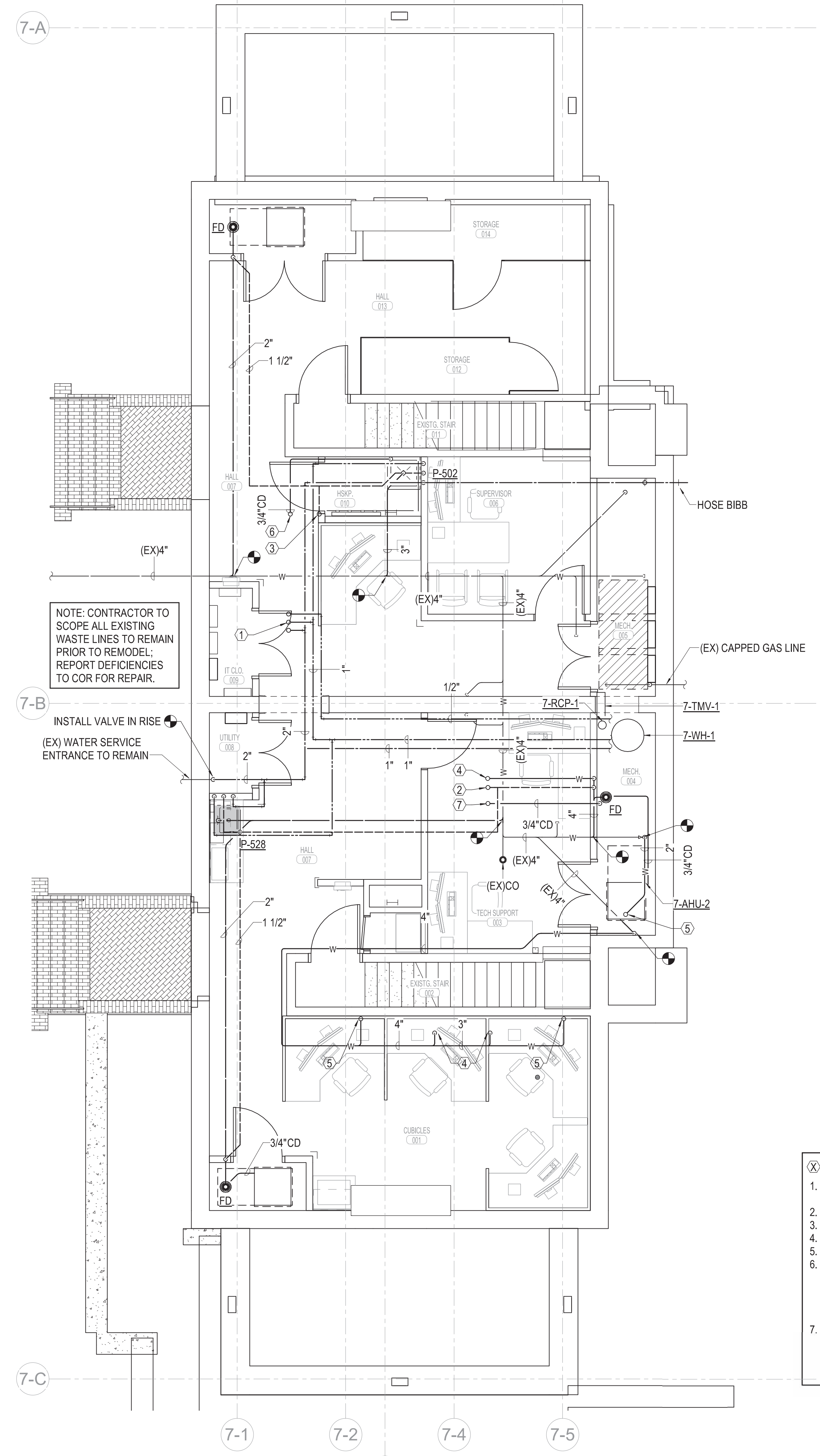








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 one and one half inches = one foot  
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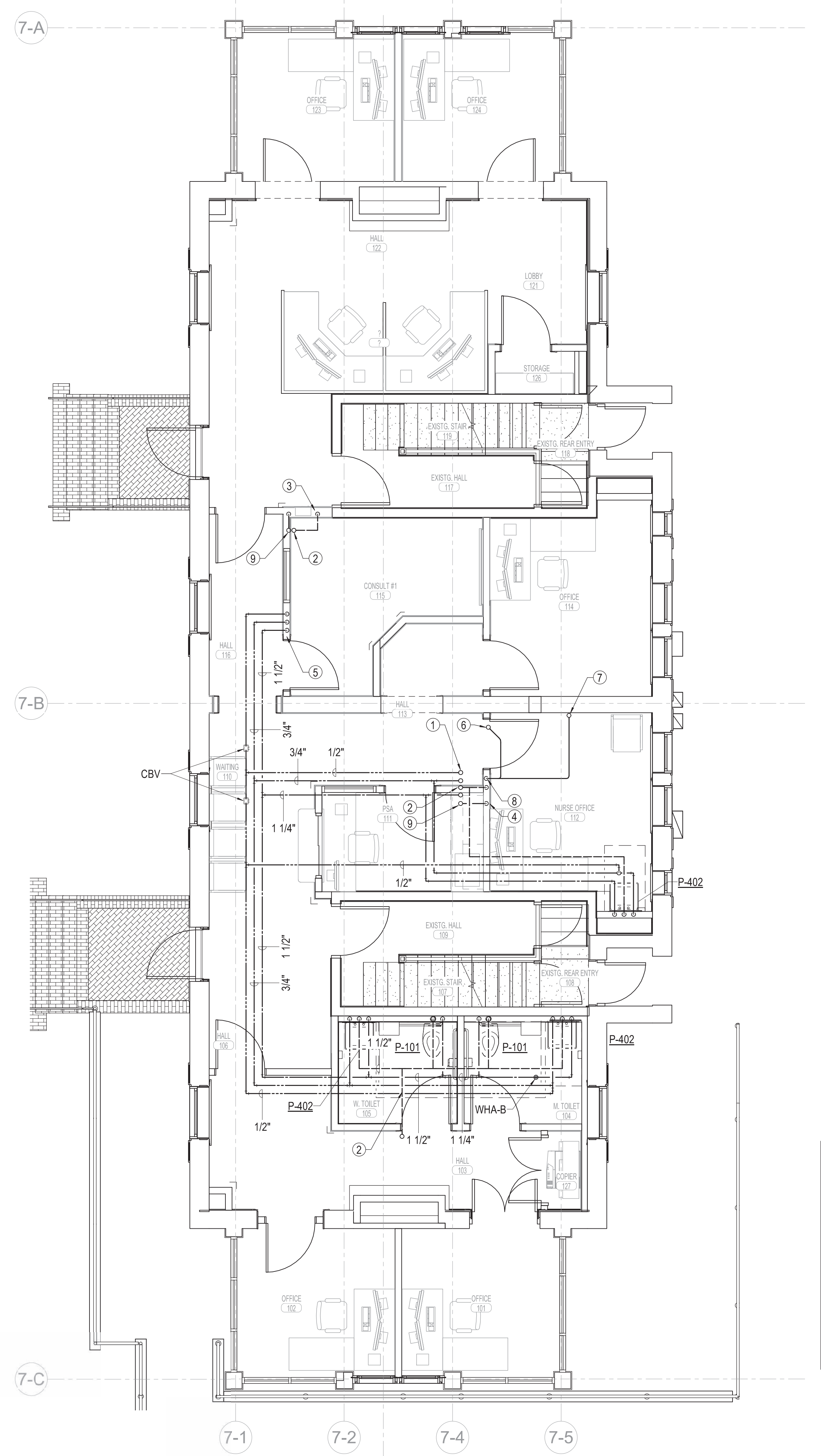


NOTE: CONTRACTOR TO SCOPE ALL EXISTING WASTE LINES TO REMAIN PRIOR TO REMODEL. REPORT DEFICIENCIES TO COR FOR REPAIR.

INSTALL VALVE IN RISE (EX) WATER SERVICE ENTRANCE TO REMAIN

- PLAN NOTES**
- 1/2" HWC, 3/4" HW, AND 1-1/2" CW UP TO FIRST FLOOR.
  - 1-1/2" VENT LINE UP.
  - 2" VENT LINE UP.
  - 4" WASTE DOWN FROM FIRST FLOOR.
  - 2" WASTE DOWN FROM FIRST FLOOR.
  - 3/4" CONDENSATE LINE ROUTED DOWN FROM ATTIC. ROUTE CONDENSATE LINE TO SERVICE SINK. PROVIDE INDIRECT WASTE CONNECTION OVER SERVICE SINK.
  - 3/4" CONDENSATE LINE ROUTED DOWN FROM ATTIC. ROUTE CONDENSATE LINE TO FLOOR DRAIN AND PROVIDE INDIRECT WASTE OUTLET OVER FLOOR DRAIN.

1 PLUMBING PLAN - BASEMENT - BID ITEM 5  
1/4" = 1'-0"



- PLAN NOTES**
- 1/2" HW, 1/2" HWC, AND 1-1/4" CW UP TO SECOND FLOOR.
  - 2" VENT LINE UP.
  - 2" VENT LINE DOWN.
  - 1-1/2" VENT LINE DOWN.
  - 1/2" HWC, 3/4" HW, AND 1-1/2" CW DOWN TO BASEMENT.
  - 4" WASTE UP TO WATER CLOSET ON SECOND FLOOR.
  - 2" WASTE UP TO LAVATORY ON SECOND FLOOR.
  - 4" WASTE DOWN TO BASEMENT.
  - 3/4" CONDENSATE LINE DOWN FROM ATTIC. OFFSET IN PLENUM TO NEAR WALL AND ROUTE DOWN TO BASEMENT.

2 PLUMBING PLAN - FIRST FLOOR - BID ITEM 5  
1/4" = 1'-0"

**MECHANICAL GENERAL NOTES**

- FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO BEGINNING WORK. BRING ANY DISCREPANCIES FROM THE DRAWINGS AND NOTES TO THE OWNER'S REPRESENTATIVE IMMEDIATELY. MINOR CHANGES IN THE SCOPE OF THE DEMOLITION WORK SHALL NOT JUSTIFY AN ADDITIONAL COST.
- CONTRACTOR SHALL PROVIDE PROTECTIVE PLASTIC DROP CLOTHS TO PROTECT THE EXISTING OCCUPIED AREAS AND EQUIPMENT FROM DUST AND DEBRIS DURING THE CONSTRUCTION WORK AND SHALL CLEAN THE AREAS OF ALL CONSTRUCTION DIRT DAILY, AND UPON COMPLETION OF THE WORK.
- ALL DRAINED PIPING RISERS AND MAINS SHALL BE REFILLED WITH FLUID AND PROPERLY VENTED BY THIS CONTRACTOR, ONCE NEW WORK HAS BEEN INSTALLED.
- COORDINATE WITH THE OWNER THE REMOVAL AND REPLACEMENT OF ALL EXISTING CEILINGS, WALL, ETC. AS REQUIRED FOR MECHANICAL DEMOLITION WORK.
- ALL CUTTING AND CHANNELING OF EXISTING NON-STRUCTURAL ELEMENTS SHALL BE ACCOMPLISHED IN A NEAT AND WORKMANLIKE MANNER WITHOUT REMOVAL OF EXCESS MATERIALS. THIS CONTRACTOR SHALL PATCH AND REPLACE WITH MATERIAL SIMILAR TO ADJACENT CONSTRUCTION.
- CUTTING OF STRUCTURAL MEMBERS IS NOT ALLOWED.
- THIS CONTRACTOR SHALL GIVE FULL COOPERATION TO THE OWNER IN THE SCHEDULING AND PROCEDURE OF WORK AND SHALL TAKE EVERY PRECAUTION TO PREVENT DAMAGE FROM FREEZING TO EXISTING SYSTEMS.
- RELOCATE EXISTING DUCTWORK, PIPING, ELECTRICAL CONDUITS, AND CABLES AS NECESSARY TO ACCOMPLISH FINAL INSTALLATION AS SHOWN.
- CAP ALL EXISTING DUCTWORK SHOWN TO BE DISCONNECTED AND NOT RE-USED.
- COORDINATE ROUTING OF PLUMBING AND HVAC PIPING WITH DUCTWORK, LIGHTS, ARCHITECTURAL CEILING AND STRUCTURAL ELEMENTS. PIPING SHALL RISE AND DROP, JOG OR OFFSET, AS REQUIRED TO AVOID CONFLICTS. DUCTWORK SHALL TAKE PRECEDENCE OVER ALL PIPING, EXCEPT WHERE GRADE MUST BE MAINTAINED FOR DRAINAGE.
- ANY EXPENSES ARISING FROM LACK OF COORDINATION SHALL BE AT CONTRACTOR'S EXPENSE. ALL DUCT AND PIPE ELEVATIONS SHOWN IN PARENTHESIS ARE BOTTOM OF DUCT OR PIPE UNLESS INDICATED OTHERWISE ON PLANS.
- ALL SUPPLY, RETURN, AND EXHAUST BRANCHES TO GRILLES, REGISTERS, AND DIFFUSERS SHALL HAVE A MANUAL BALANCE DAMPER.
- CEILING PLENUM IS USED FOR RETURN AIR. KEEP PLENUM FREE OF COMBUSTIBLES, PVC PIPING, AND ANY OTHER MATERIALS NOT ALLOWED BY THE INTERNATIONAL FIRE CODE.

Revisions:	Date

**CONSULTANTS:**



**ARCHITECT/ENGINEERS:**

**MHEG**  
ARCHITECTURE



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**PLUMBING PLANS - BID ITEM 5**

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Location  
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CDF

Drawn  
AJS

Project Number  
589A7-18-301

Building Number  
7

Drawing Number  
**PL101.5**

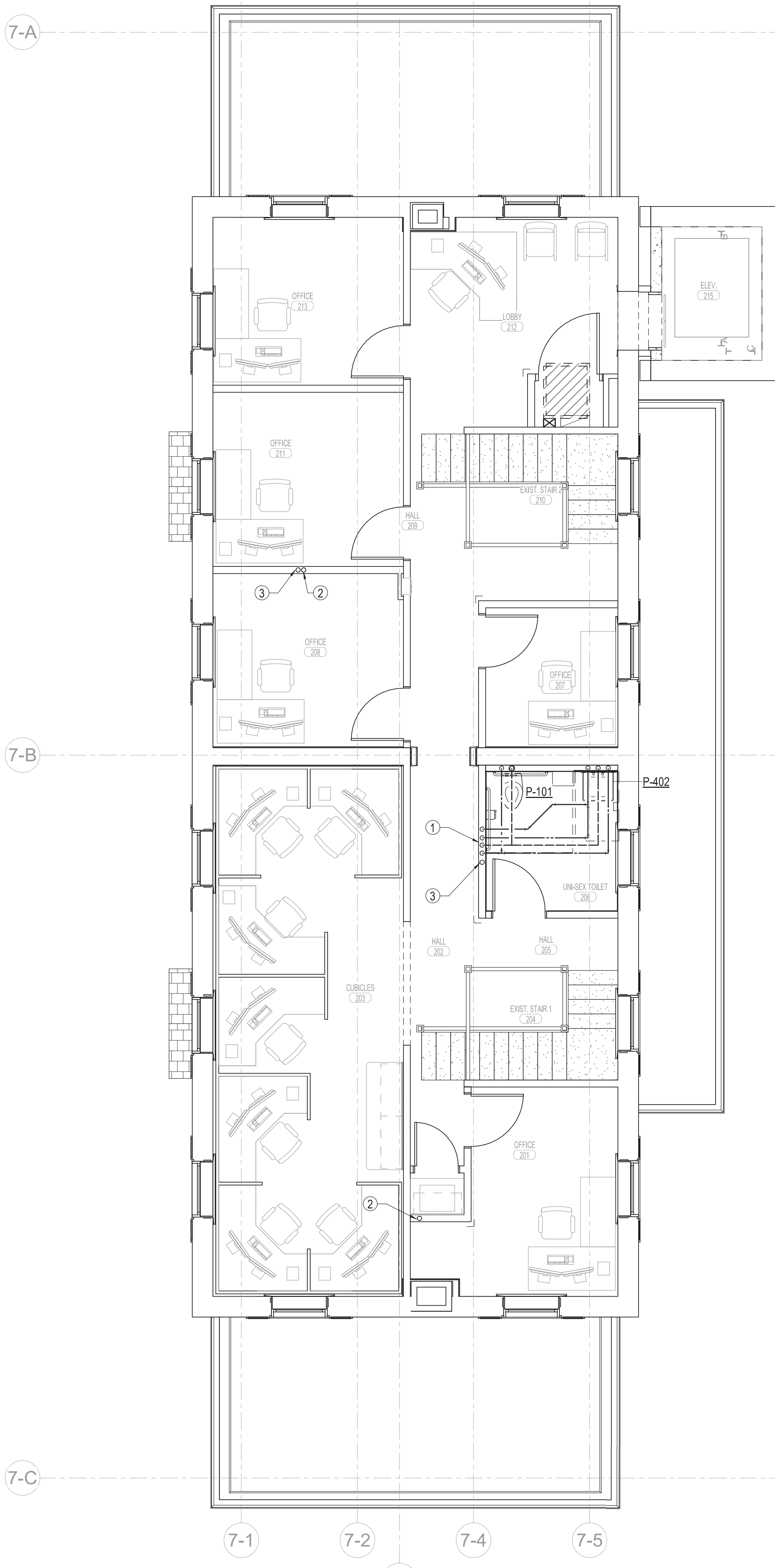
Dwg.

Office of Construction and Facilities Management

Department of Veterans Affairs



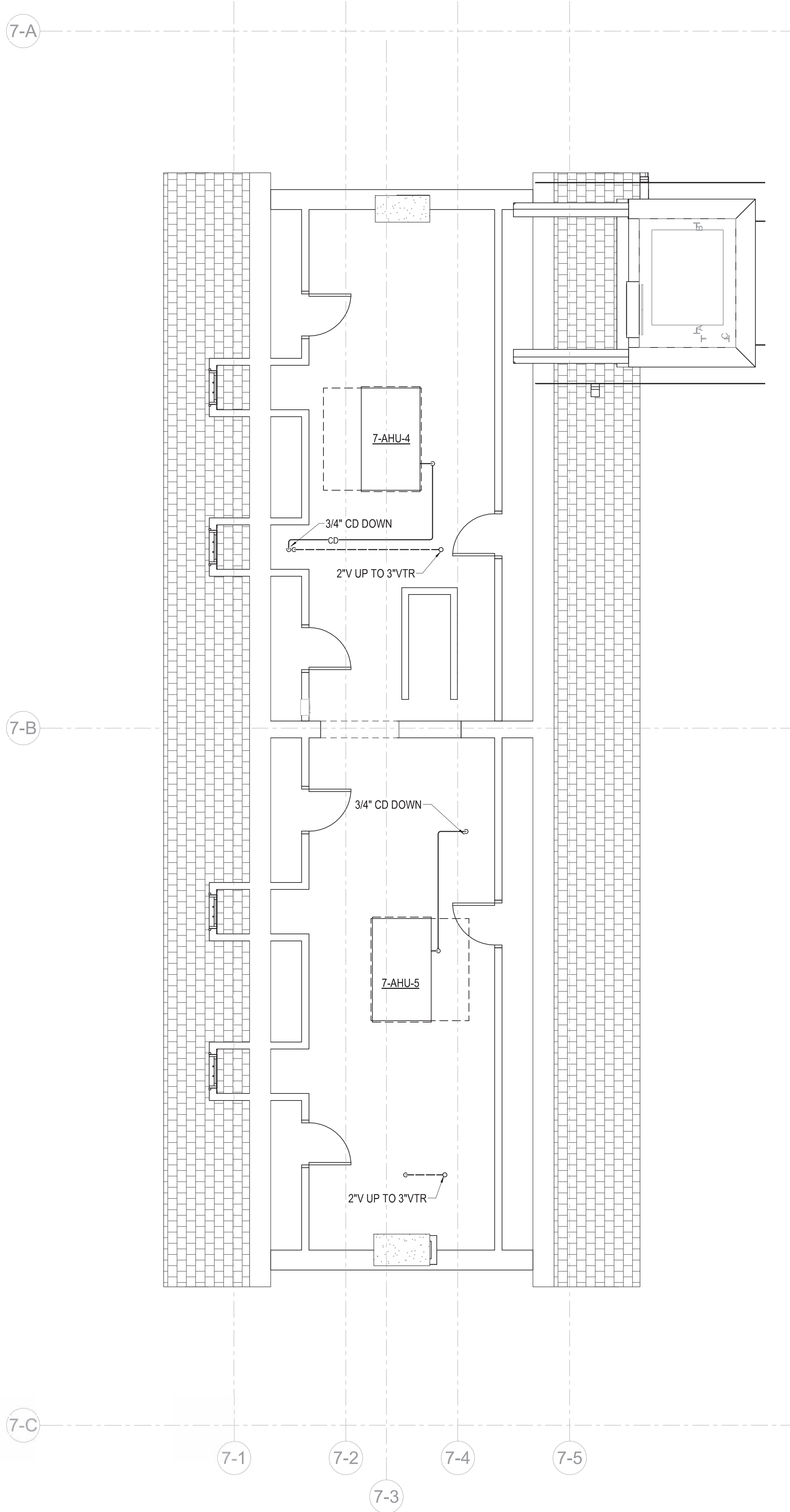
three inches = one foot  
 one and one half inches = one foot  
 one inch = one foot  
 three quarters inch = one foot  
 one half inch = one foot  
 three eighths inch = one foot  
 one quarter inch = one foot  
 one eighth inch = one foot



**PLAN NOTES**

- 1/2" HW, 1/2" HWC, 1-1/4" CW, 2" V DOWN TO FIRST FLOOR.
- 2" VENT LINE UP TO ATTIC.
- 3/4" CONDENSATE DOWN FROM ATTIC.

1 PLUMBING PLAN - SECOND FLOOR  
 1/4" = 1'-0"

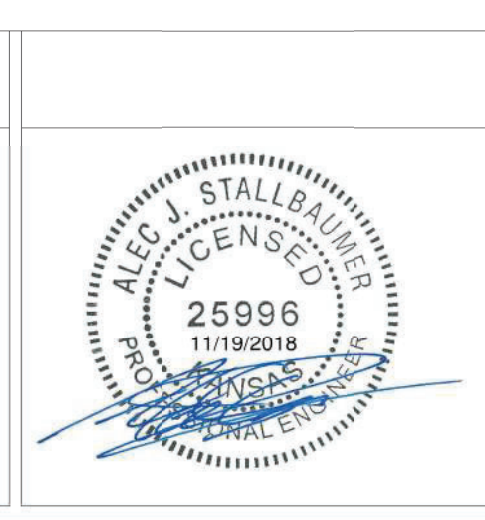


2 PLUMBING PLAN - ATTIC  
 1/4" = 1'-0"

- MECHANICAL GENERAL NOTES**
1. FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO BEGINNING WORK. BRING ANY DISCREPANCIES FROM THE DRAWINGS AND NOTES TO THE OWNER'S REPRESENTATIVE IMMEDIATELY. MINOR CHANGES IN THE SCOPE OF THE DEMOLITION WORK SHALL NOT JUSTIFY AN ADDITIONAL COST.
  2. CONTRACTOR SHALL PROVIDE PROTECTIVE PLASTIC DROP CLOTHS TO PROTECT THE EXISTING OCCUPIED AREAS AND EQUIPMENT FROM DUST AND DEBRIS DURING THE CONSTRUCTION WORK AND SHALL CLEAN THE AREAS OF ALL CONSTRUCTION DIRT DAILY, AND UPON COMPLETION OF THE WORK.
  3. ALL DRAINED PIPING RISERS AND MAINS SHALL BE REFILLED WITH FLUID AND PROPERLY VENTED BY THIS CONTRACTOR. ONCE NEW WORK HAS BEEN INSTALLED.
  4. COORDINATE WITH THE OWNER THE REMOVAL AND REPLACEMENT OF ALL EXISTING CEILINGS, WALL, ETC. AS REQUIRED FOR MECHANICAL DEMOLITION WORK.
  5. ALL CUTTING AND CHANNELING OF EXISTING NON-STRUCTURAL ELEMENTS SHALL BE ACCOMPLISHED IN A NEAT AND WORKMANLIKE MANNER WITHOUT REMOVAL OF EXCESS MATERIALS. THIS CONTRACTOR SHALL PATCH AND REPLACE WITH MATERIAL SIMILAR TO ADJACENT CONSTRUCTION.
  6. CUTTING OF STRUCTURAL MEMBERS IS NOT ALLOWED.
  7. THIS CONTRACTOR SHALL GIVE FULL COOPERATION TO THE OWNER IN THE SCHEDULING AND PROCEDURE OF WORK AND SHALL TAKE EVERY PRECAUTION TO PREVENT DAMAGE FROM FREEZING TO EXISTING SYSTEMS.
  8. RELOCATE EXISTING DUCTWORK, PIPING, ELECTRICAL CONDUITS, AND CABLING AS NECESSARY TO ACCOMPLISH FINAL INSTALLATION AS SHOWN.
  9. CAP ALL EXISTING DUCTWORK SHOWN TO BE DISCONNECTED AND NOT RE-USED.
  10. COORDINATE ROUTING OF PLUMBING AND HVAC PIPING WITH DUCTWORK, LIGHTS, ARCHITECTURAL CEILING AND STRUCTURAL ELEMENTS. PIPING SHALL RISE AND DROP, JOG OR OFFSET, AS REQUIRED TO AVOID CONFLICTS. DUCTWORK SHALL TAKE PRECEDENCE OVER ALL PIPING, EXCEPT WHERE GRADE MUST BE MAINTAINED FOR DRAINAGE.
  11. ANY EXPENSES ARISING FROM LACK OF COORDINATION SHALL BE AT CONTRACTOR'S EXPENSE. ALL DUCT AND PIPE ELEVATIONS SHOWN IN PARENTHESIS ARE BOTTOM OF DUCT OR PIPE UNLESS INDICATED OTHERWISE ON PLANS.
  12. ALL SUPPLY, RETURN, AND EXHAUST BRANCHES TO GRILLES, REGISTERS, AND DIFFUSERS SHALL HAVE A MANUAL BALANCE DAMPER.
  13. CEILING PLENUM IS USED FOR RETURN AIR. KEEP PLENUM FREE OF COMBUSTIBLES, PVC PIPING, AND ANY OTHER MATERIALS NOT ALLOWED BY THE INTERNATIONAL FIRE CODE.

Revisions:	Date

**CONSULTANTS:**



**ARCHITECT/ENGINEERS:**

**MHEG**  
 ARCHITECTURE



Drawing Title  
**PLUMBING PLANS**

Approved: Project Director

Project Title  
 RENOVATE AND MODERNIZE VENTILATION SYSTEMS BLDG. 7  
 Contract No.: VA255-17-D-0080  
 Task Order No.: 36C25518N1024  
 Obligation No.: 589-C81081

Location  
**Wichita, Kansas**

Date  
**11/19/2018**

Checked  
 CDF

Drawn  
 AJS

Project Number  
**589A7-18-301**

Building Number  
**7**

Drawing Number  
**PL102**

Dwg.

Office of  
 Construction  
 and Facilities  
 Management

Department of  
 Veterans Affairs





**PLAN NOTES**

1. 1/2" HW, 1/2"HWC, 1-1/4" CW, 2"V DOWN TO FIRST FLOOR.
2. 2" VENT LINE UP TO ATTIC.
3. 3/4" CONDENSATE DOWN FROM ATTIC.

**MECHANICAL GENERAL NOTES**

1. FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO BEGINNING WORK. BRING ANY DISCREPANCIES FROM THE DRAWINGS AND NOTES TO THE OWNER'S REPRESENTATIVE IMMEDIATELY. MINOR CHANGES IN THE SCOPE OF THE DEMOLITION WORK SHALL NOT JUSTIFY AN ADDITIONAL COST.
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12. ALL SUPPLY, RETURN, AND EXHAUST BRANCHES TO GRILLES, REGISTERS, AND DIFFUSERS SHALL HAVE A MANUAL BALANCE DAMPER.
13. CEILING PLENUM IS USED FOR RETURN AIR. KEEP PLENUM FREE OF COMBUSTIBLES, PVC PIPING, AND ANY OTHER MATERIALS NOT ALLOWED BY THE INTERNATIONAL FIRE CODE.

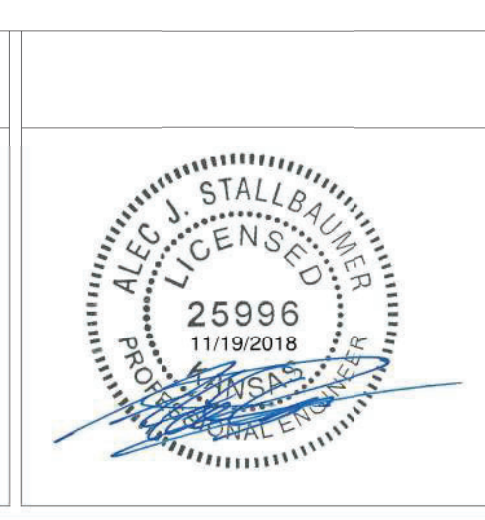
1 PLUMBING PLAN - SECOND FLOOR - BID ITEM 5  
1/4" = 1'-0"

2 PLUMBING PLAN - ATTIC - BID ITEM 5  
1/4" = 1'-0"

Revisions:	Date

**CONSULTANTS:**

—



**ARCHITECT/ENGINEERS:**

**MHEG**  
ARCHITECTURE



Drawing Title  
**PLUMBING PLANS - BID ITEM 5**

Approved: Project Director

Project Title  
RENOVATE AND MODERNIZE VENTILATION SYSTEMS BLDG. 7  
Contract No.: VA255-17-D-0080  
Task Order No.: 36C25518N1024  
Obligation No.: 589-C81081

Location  
Wichita, Kansas

Date  
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Checked  
CDF

Drawn  
AJS

Project Number  
589A7-18-301

Building Number  
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Drawing Number  
**PL102.5**

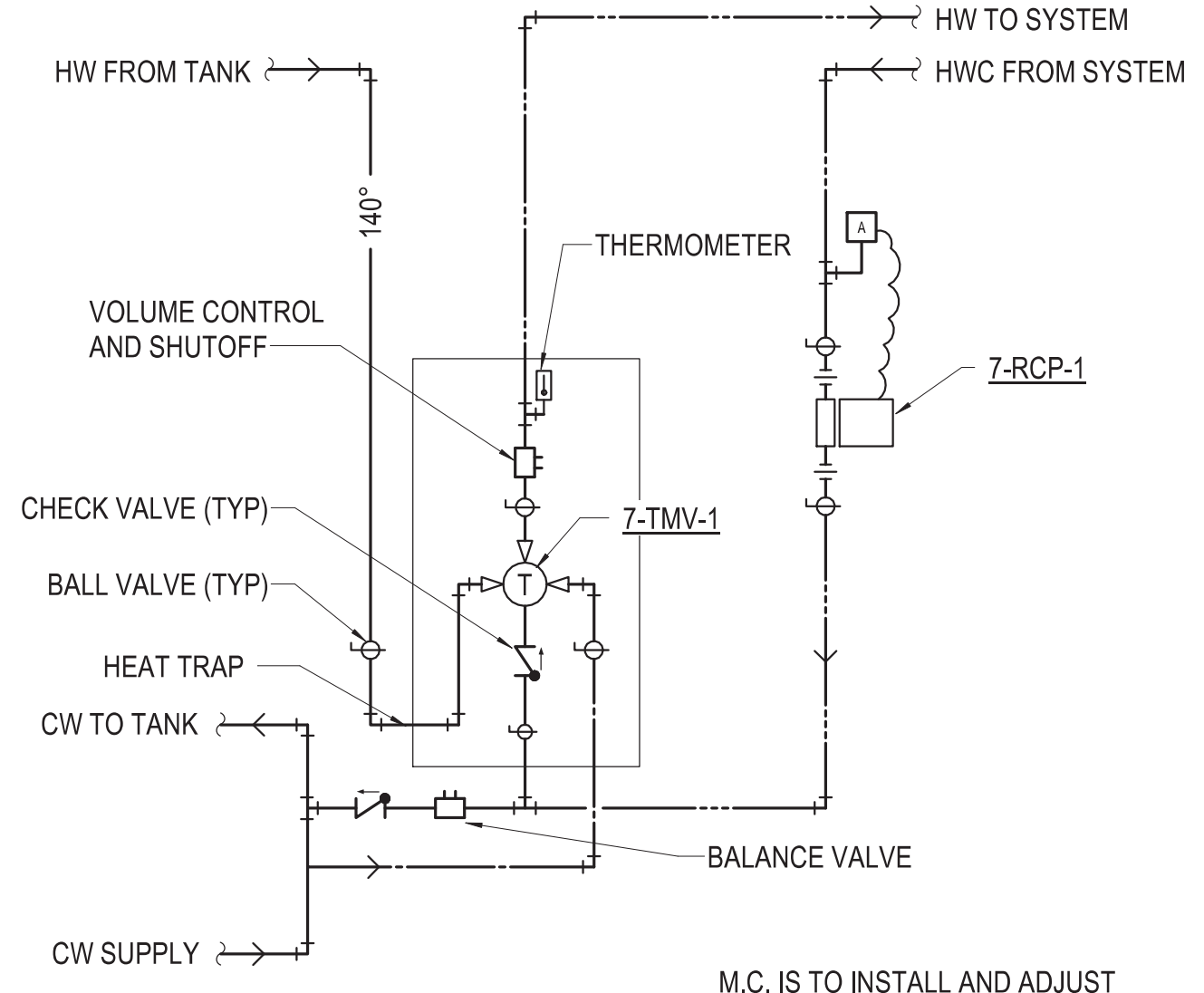
Dwg.

Office of Construction and Facilities Management

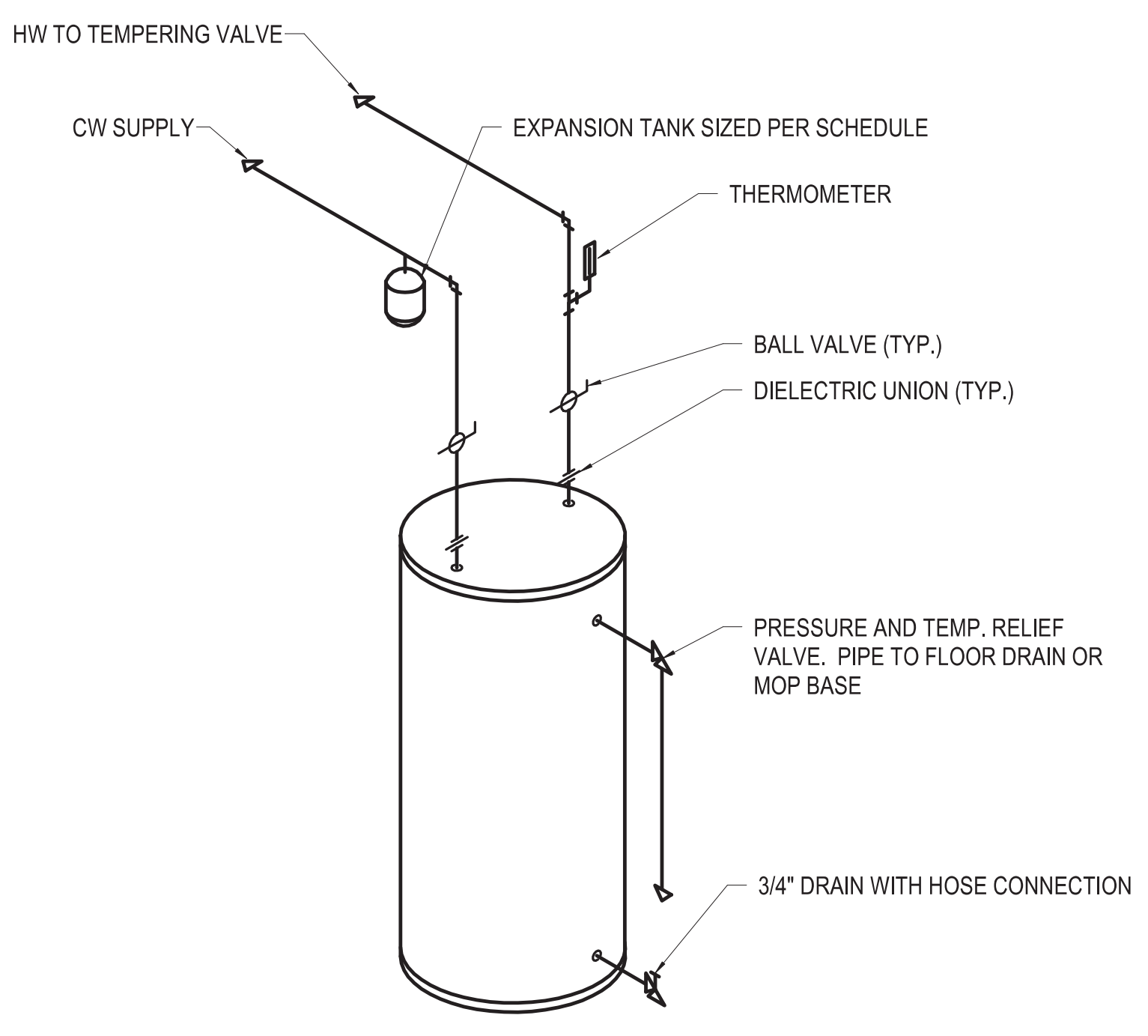
Department of Veterans Affairs



one eighth inch = one foot  
 one quarter inch = one foot  
 one half inch = one foot  
 three eighths inch = one foot  
 one inch = one foot  
 one and one eighth inch = one foot  
 one and one quarter inch = one foot  
 one and one half inch = one foot  
 one and three quarters inch = one foot  
 two inches = one foot  
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 two and three quarters inch = one foot  
 three inches = one foot  
 three and one eighth inch = one foot  
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 four inches = one foot  
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 five inches = one foot  
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 seven inches = one foot  
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 seven and one quarter inch = one foot  
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 eight inches = one foot  
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 eight and three quarters inch = one foot  
 nine inches = one foot  
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 nine and one half inch = one foot  
 nine and three quarters inch = one foot  
 ten inches = one foot  
 ten and one eighth inch = one foot  
 ten and one quarter inch = one foot  
 ten and one half inch = one foot  
 ten and three quarters inch = one foot  
 eleven inches = one foot  
 eleven and one eighth inch = one foot  
 eleven and one quarter inch = one foot  
 eleven and one half inch = one foot  
 eleven and three quarters inch = one foot  
 twelve inches = one foot



② TEMPERING VALVE  
NO SCALE



① WATER HEATER - ELECTRIC DOMESTIC  
NO SCALE

PLUMBING FIXTURE SCHEDULE														
MARK	DESCRIPTION	WASTE PIPE		VENT PIPE		COLD WATER		HOT WATER		WASTE FIXTURE UNITS	WATER FIXTURE UNITS	WRIST BLADE HANDLES	ELECTRONIC SENSOR	REMARKS
		IN	[mm]	IN	[mm]	IN	[mm]	IN	[mm]					
P-101	WATER CLOSET, FLOOR MTD	3	[75]	2	[50]	1.25	[31]	-	-	6	10	N/A	NO	HANDICAP ACCESSIBLE
P-402	LAVATORY ELBOW CONTROL	2	[50]	1.5	[38]	.5	[13]	.5	[13]	2	2	YES	NO	HANDICAP ACCESSIBLE
P-502	SINK SERVICE FLOOR MOUNTED	3	[75]	2	[50]	.75	[19]	.75	[19]	3	4	YES	NO	--
P-528	SINK	2	[50]	1.5	[38]	.5	[13]	.5	[13]	2	2	YES	NO	HANDICAP ACCESSIBLE

P-101: WATER CLOSET, FLOOR MOUNT: BASED ON AMERICAN STANDARD 3043.001 FLOOR MOUNTED, BOTTOM OUTLET, VITREOUS CHINA, 17-1/8" HIGH ELONGATED BOWL, HIGH EFFICIENCY, SIPHON JET TOILET WITH 1-1/2" TOP SPUD - SLOAN WES 111, DUAL 1.6/1.1 GPF FLUSH VALVE WITH VACUUM BREAKER, OFFSET FLUSH TUBE FOR CLEARANCE AROUND GRAB BAR (IF NEEDED) - WHITE SOLID PLASTIC ELONGATED OPEN FRONT SEAT, LESS COVER. THE TOILET SHALL BE INSTALLED SO THAT THE CENTERLINE OF BOWL IS 16"-18" FROM THE NEAREST FINISHED WALL, AND FLUSH HANDLE SHALL BE ON THE WIDE SIDE OF THE TOILET ROOM.

P-402: LAVATORY: BASED ON KOHLER K-2005 "KINGSTON" 20"x18" WALL HUNG VITREOUS CHINA LAVATORY WITH 4" CENTERS, FRONT OVERFLOW, DRILLED FOR CONCEALED ARM CARRIER - CHICAGO FAUCET 895-317GN2AE72XKAB DECK MOUNTED LAVATORY FAUCET WITH GOOSENECK SPOUT, 0.5 GPM LAMINAR FLOW DEVICE IN SPOUT, WRISTBLADE HANDLES, CERAMIC DISC CARTRIDGES - PROVIDE DRAIN WITH GRID STRAINER - CHROME PLATED WALL SUPPLIES WITH LOOSE KEY STOPS - 1-1/4" CHROME PLATED CAST BRASS "P" TRAP - FLOOR MOUNTED CONCEALED ARM CARRIER - INSULATE "P" TRAP AND HOT WATER SUPPLY.

P-502: SERVICE SINK, FLOOR MOUNTED: BASED ON STERN WILLIAMS SBC-1700 24"x24"x12" DEEP TERRAZZO MOP BASIN WITH DROP FRONT AND STAINLESS STEEL CAP - CAST BRASS DRAIN WITH STAINLESS STEEL STRAINER - CHICAGO FAUCET 540-LD897SWX317 CP SERVICE SINK FAUCET WITH INTEGRAL CHECKSTOPS, SPOUT WITH BUCKET HOOK, 3/4" HOSE THREAD END, VACUUM BREAKER, ADJUSTABLE TOP BRACE, WRISTBLADE HANDLES - STAINLESS STEEL BACKSPLASH PANELS ON ADJACENT WALLS - 3" CAST IRON "P" TRAP.

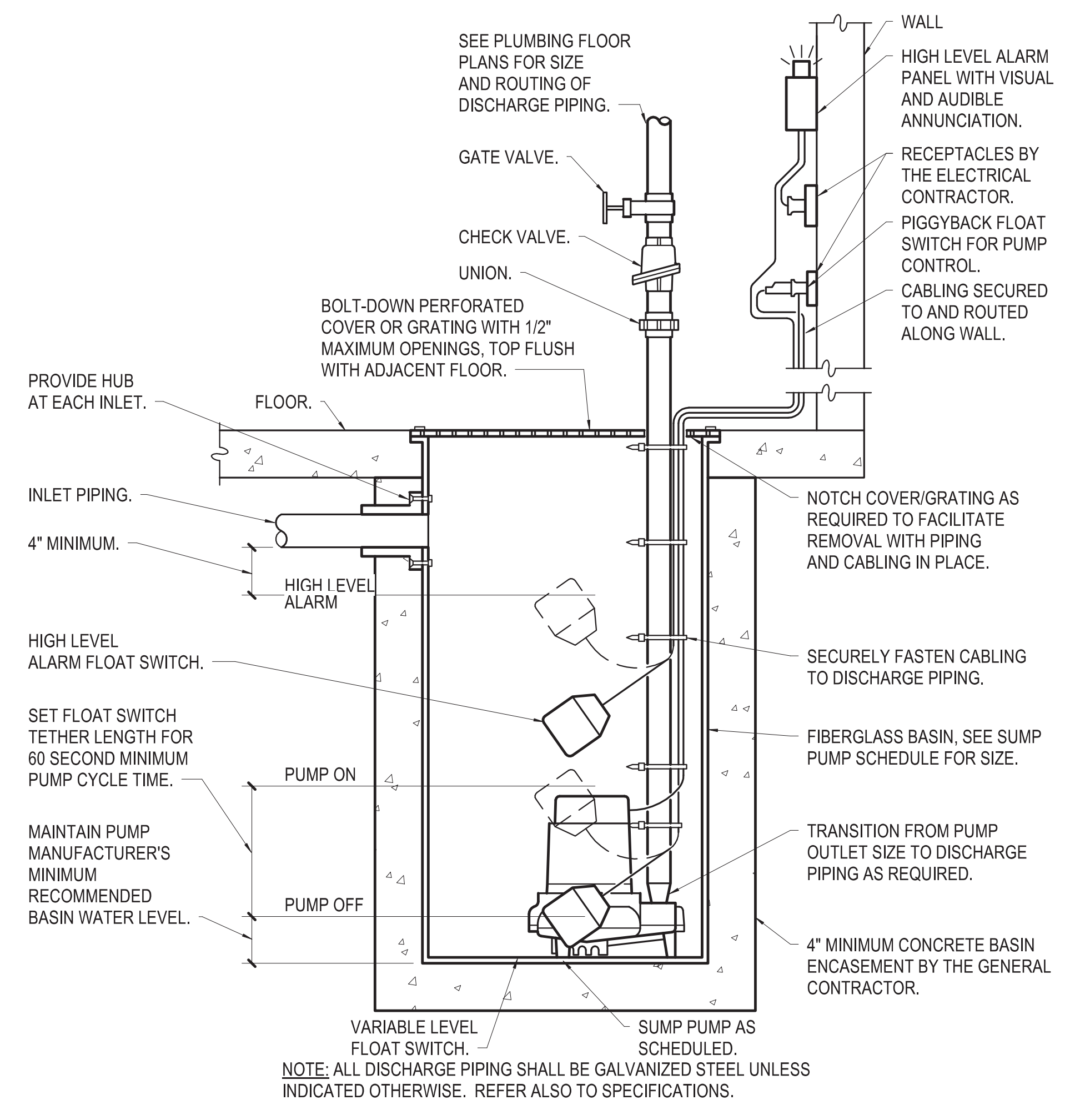
P-528: SINK: BASED ON SOLID SURFACE SINK WITH OVERFLOW DRAIN PER ARCHITECTURAL PLANS. - FAUCET BASED ON CHICAGO FAUCET 786-GN8FCXKABCP DECK MOUNTED FAUCET WITH 1.5 GPM LAMINAR FLOW GOOSENECK SPOUT, CERAMIC CARTRIDGES, WRISTBLADE HANDLES - DUO STRAINER WITH NEOPRENE STOPPER - WALL SUPPLIES WITH LOOSE KEY STOPS - CHROME PLATED CAST BRASS "P" TRAP. INSTALL PIPING TO FIT WITHIN ARCHITECTURAL ENCLOSURE.

ELECTRIC WATER HEATER SCHEDULE																	
MARK	LOCATION	AREA AND/OR BLDG SERVED	SYSTEM AND/OR SERVICE	TYPE	STORAGE CAPACITY		RECOVERY @ 100°F RISE		TIME TO RECOVER CONTENTS, MINUTES	RELIEF VALVE SETTINGS		NO. OF ELEMENTS	ELECTRICAL INPUT			REMARKS	
					GAL	[L]	GAL/HR	[L/HR]		PSIG	[kPa]		TOTAL KW	KW PER ELEMENT	PHASE		VOLT
7-WH-1	BASEMENT	BLDG 7	HW	ELECTRIC	20	--	10	--	120	125	--	1	2.5	2.5	1	208/1	--

DOMESTIC WATER THERMAL EXPANSION TANK SCHEDULE																			
MARK	LOCATION	TYPE	SYSTEM TEMPERATURE				INITIAL PRESSURE IN TANK		MAX OPERATING PRESSURE		RELIEF VALVE PSIG [kPa]		MIN TANK VOLUME		MIN ACCEPT VOLUME		PIPE SIZE TO TANK		REMARKS
			MIN	[°C]	MAX	[°C]	PSIG	[kPa]	PSIG	[kPa]	PSIG	[kPa]	GAL	[L]	GAL	[L]	IN	[mm]	
7-ET-1	BASEMENT	DIAPHRAGM	45	--	140	--	55	--	150	--	125	--	2	--	0.9	--	3/4"	--	

PLUMBING PUMP SCHEDULE																						
MARK	LOCATION	AREA AND/OR BLDG SERVED	SYSTEM AND/OR SERVICE	TYPE	FLUID	CIRCULATING FLUID								ELECTRICAL POWER					REMARKS			
						FLOW		HEAD		NPSH AVAILABLE		TEMPERATURE		SP. GR.	MIN. % EFF	NOMINAL POWER		PHASE		VOLT	MAX RPM	SPEED CONTROL
						GPM	[L/s]	FT	[kPa]	FT	[kPa]	°F	[°C]			HP	[kW]					
7-RCP-1	BASEMENT	BLDG 7	HWC	INLINE	WATER	1.0	--	20	--	--	--	110	--	1.0	--	0.25	--	1	120	3250	1	1
7-SP-1	ELEVATOR PIT	BLDG 7	ELEVATOR	SUMP PUMP	WATER	50	--	20	--	--	--	50	--	--	--	0.50	--	1	120	1750	1	2, A

1. BASED ON INLINE CARTRIDGE CIRCULATOR.  
 2. BASED ON SUBMERSIBLE SUMP PUMP WITH 28"Wx28"Lx24"D BASIN AND CORD AND PLUG. PROVIDE ACCESSORIES PER SUMP PUMP DETAIL THIS SHEET.  
 A. SUMP PUMP IS TO BE OMITTED UNDER BID ITEM 5.



⑤ SUMP PUMP DETAIL - SIMPLEX  
NO SCALE

BID ITEM NOTE: SUMP PUMP, BASIN, AND ALL ACCESSORIES TO BE OMITTED UNDER BID ITEM 5

THERMOSTATIC MIXING VALVE SCHEDULE												
MARK	LOC AT ROOM	GPM		PRESS. DROP	CW		HW		140° HW		OUTLET TEMP	REMARKS
		MIN.	MAX.		RUNOUT	CONN.	RUNOUT	CONN.	RUNOUT	CONN.		
7-TMV-1	BASEMENT	0.5	5	5 PSI	3/4	3/4	3/4	3/4	3/4	3/4	110 F	

<b>CONSULTANTS:</b> --		<b>ARCHITECT/ENGINEERS:</b>   303 SOUTH TOPEKA WICHITA, KS 67202 316-262-2691 www.pec1.com		Drawing Title <b>PLUMBING DETAILS, SCHEDULES</b>		Project Title RENOVATE AND MODERNIZE VENTILATION SYSTEMS BLDG. 7 Contract No.: VA255-17-D-0080 Task Order No.: 36C2518N1024 Obligation No.: 589-C81081		Project Number <b>589A7-18-301</b>		Office of Construction and Facilities Management 	
Revisions: _____ Date _____				Approved: Project Director		Location <b>Wichita, Kansas</b>		Building Number <b>7</b>		Drawing Number <b>P-501</b>	
						Date <b>11/19/2018</b>		Checked CDF		Drawn AJS	
								Dwg.			

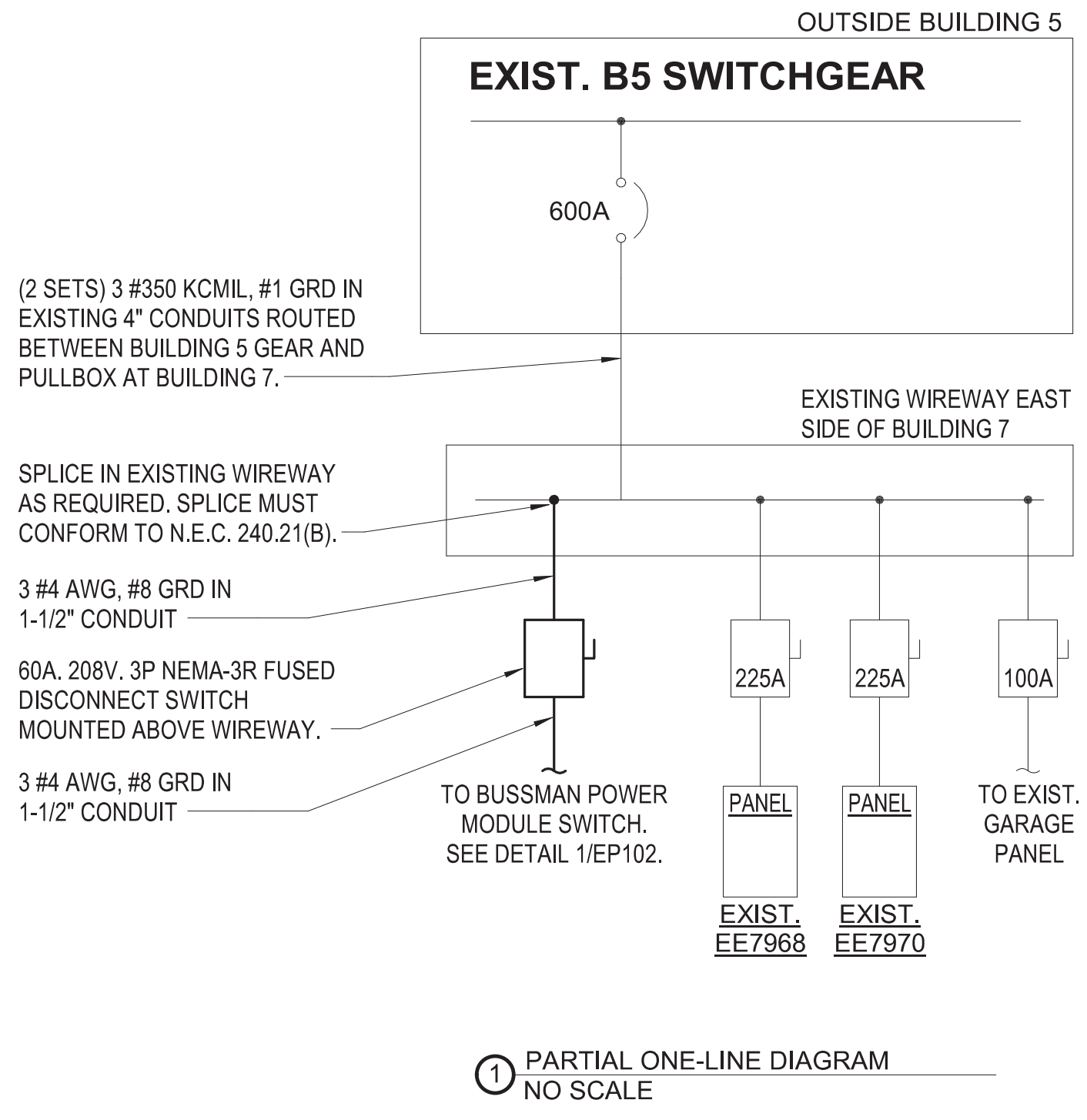












## LIGHTING FIXTURE SCHEDULE

MARK	DESCRIPTION	MANUFACTURER		MANUFACTURER		LAMP #	LAMP TYPE	WATTS	VOLTAGE	LENS/LOUVER/FINISH	W	L	D	REF. NOTE	Remarks
		NAME	MODEL	NAME	MODEL										
D	DEMO FIXTURE	EXISTING FIXTURE	TO BE REMOVED												
F2	2' STRIP	WILLIAMS	75R-2-L30-835-DRV-UNV	OR EQUAL		1	LED 3500K	24	UNV	WHITE	0.4	2.0	0.3	1.2,3,4,8	2900LM, 3500K, 80+ CRI. PROVIDE WITH WALL MOUNT OR CEILING MOUNT KIT AS REQUIRED.
F2E	2' STRIP	WILLIAMS	75R-2-L30-835-DRV-UNV	OR EQUAL		1	LED 3500K	24	UNV	WHITE	0.4	2.0	0.3	1.2,3,4,8	2900LM, 3500K, 80+ CRI. PROVIDE WITH WALL MOUNT OR CEILING MOUNT KIT AS REQUIRED. PROVIDE WITH EMERGENCY BATTERY PACK
F4	4' STRIP	WILLIAMS	75R-4-L50-835-DRV-UNV	OR EQUAL		1	LED 3500K	44	UNV	WHITE	0.4	4.0	0.3	1.2,3,4,8	5500LM, 3500K, 80+ CRI. PROVIDE WITH WALL MOUNT OR CEILING MOUNT KIT AS REQUIRED.
HA	4' DOWNLIGHT WITH LENS	WILLIAMS	4PR-TL-20-835-DIM-LW-OF-WH-R	OR EQUAL		1	LED 3500K	23	UNV	SEMI-SPECULAR	0.5	0.5	0.0	1.2,3,4,8	2000LM, 3500K, 80+ CRI, WIDE DISTRIBUTION, REMODEL KIT
K2	2X4 LAY-IN	METALUX	24CZ-LD5-45-S-UNV-L835-CD1	OR EQUAL		1	LED 3500K	36	UNV	SMOOTH ACRYLIC	2.0	4.0	0.3	1.2,3,4,8	4500LM, 3500K, 80+ CRI
KA	2X2 LAY-IN	METALUX	22CZ-LD5-34-S-UNV-L835-CD1	OR EQUAL		1	LED 3500K	30	UNV	SMOOTH ACRYLIC	2.0	2.0	0.3	1.2,3,4,8	3400LM, 3500K, 80+ CRI
KAE	2X2 LAY-IN	METALUX	22CZ-LD5-34-S-UNV-L835-CD1	OR EQUAL		1	LED 3500K	30	UNV	SMOOTH ACRYLIC	2.0	2.0	0.3	1.2,3,4,8	3400LM, 3500K, 80+ CRI, PROVIDE WITH EMERGENCY BATTERY PACK
RD	EXTERIOR WALL MOUNT	LUMARK	XTOR4B-W-BZ-PC1	OR EQUAL		1	LED 4000K	39	UNV	DARK BRONZE	1.1	1.3	0.8	1.2,3,4	4000LM, 4000K, 70+ CRI, PROVIDE WITH PHOTOCELL CONTROLLER AND WALL MOUNT KIT
UB	24" UNDERCABINET	HALO	HU10-24-30-WH	OR EQUAL		1	LED 3000K	10	120	WHITE	0.4	2.0	0.1	1.2,3,4	PROVIDE WITH POWER SUPPLY, CONNECTORS, END CAPS, MOUNTING ACCESSORIES, ETC. FOR A COMPLETE AND FUNCTIONAL INSTALLATION.
X1	1 FACE/AC EXIT	LITHONIA	EDGR-1-R-EL	OR EQUAL		1	LED	5	UNV	CLEAR	0.0	0.0	0.0	1.2,3,4,6	RED WITH BATTERY, SELF DIAGNOSTICS
X2	2 FACE/AC EXIT	LITHONIA	EDGR-2-R-EL	OR EQUAL		1	LED	5	UNV	CLEAR	0.0	0.0	0.0	1.2,3,4,6	RED WITH BATTERY, SELF DIAGNOSTICS

- NOTES:
- GENERAL CONTRACTOR SHALL PROVIDE FIREPROOFING AROUND RECESSED FIXTURES INSTALLED IN FIRE RATED CEILING PER U.L. REQUIREMENTS. ELECTRICAL CONTRACTOR WILL COORDINATE.
  - MANUFACTURERS LISTED IN THIS SCHEDULE OR APPROVED BY WRITTEN ADDENDUM WILL BE THE ONLY APPROVED MANUFACTURERS TO BID THE LIGHTING FIXTURES FOR THIS PROJECT. CONTRACTORS AND SUPPLIERS USING PRICING FROM MANUFACTURERS NOT LISTED ON SCHEDULE OR BY ADDENDUM DO SO AT THEIR OWN RISK.
  - LIGHT FIXTURE SELECTIONS ARE BASED ON THE MANUFACTURER IN THE LEFT MOST COLUMN AS LISTED IN THE SCHEDULE. FIXTURES APPROVED AS EQUALS IN THIS SCHEDULE OR BY ADDENDUM SHALL BE EQUAL TO THE UNIT SPECIFIED IN THE LEFT MOST COLUMN, IE: SPRING LOADED LATCHES, POST PAINTED FINISH, AND PHOTOMETRICS.
  - ALL LIGHT FIXTURES SHALL BE SECURED TO THE CEILING FRAMING SYSTEM BY MECHANICAL MEANS (SUCH AS BOLTS, SCREWS, OR RIVETS) OR BY CLIPS IDENTIFIED FOR USE WITH THE TYPE OF CEILING FRAMING MEMBER AND LIGHT FIXTURE.
  - NOTE NOT USED.
  - PROVIDE ARROWS AND FACES AS INDICATED ON THE DRAWINGS.
  - NOTE NOT USED.
  - LIGHT FIXTURES SHALL BE PROVIDED WITH 0-10V DIMMING DRIVERS. DRIVERS SHALL BE CAPABLE OF DIMMING TO A MINIMUM OF 10% OF TOTAL LIGHT OUTPUT. LED DRIVERS SHALL HAVE A DISCONNECTING MEANS MEETING THE REQUIREMENTS OF NEC SECTION 410.130(G), EXCEPT FOR THOSE INSTALLED IN CORD-AND-PLUG CONNECTED FIXTURES. WHERE APPLICABLE, WHEN DIMMING SWITCHES ARE NOT PROVIDED AS PART OF THE DESIGN, CONTRACTOR SHALL CAP OFF 0-10V DIMMING WIRES FOR FUTURE EXTENSION BY OWNER.

### EQUIPMENT CONNECTION SCHEDULE

MECHANICAL EQUIPMENT CONNECTIONS																
UNIT	UNIT	LOAD			PANEL DEVICE			DEVICE AT UNIT			S	FEEDER DESCRIPTION OR SEE THE FEEDER SCHEDULE	REMARKS OR SEE THE INDICATED NOTES BELOW			
DESIG	VOLTAGE	H.P.	FLA	KVA	CIRCUIT NUMBER	BKR	SW	FUSE	NEMA START	BKR				SW	FUSE	START
<b>7-AHU AIR HANDLING UNIT</b>																
1	208/1	1.5	11.0	2.288	EE7970-1	20	2	30	15	2	1	2	1	2 #12 AWG THWN, #12 AWG GRD, 1/2"		
2	208/1	1.5	11.0	2.288	EE7970-2	20	2	30	15	2	1	2	1	2 #12 AWG THWN, #12 AWG GRD, 1/2"		
3	208/1	1.5	11.0	2.288	EE7970-3	20	2	30	15	2	1	2	1	2 #12 AWG THWN, #12 AWG GRD, 1/2"		
4	208/1	1	8.8	1.83	EE7970-29	20	2	30	15	2	1	2	1	2 #12 AWG THWN, #12 AWG GRD, 1/2"		
5	208/1	1	8.8	1.83	EE7970-33	20	2	30	15	2	1	2	1	2 #12 AWG THWN, #12 AWG GRD, 1/2"		
<b>7-CU CONDENSING UNIT</b>																
1	208/1	26A	28.8	5.99	EE7970-20	60	2	60	45	2	1	2	1	2 #6 AWG THWN, #10 AWG GRD, 3/4"		
2	208/1	26A	28.8	5.99	EE7970-24	60	2	60	45	2	1	2	1	2 #4 AWG THWN, #10 AWG GRD, 1/2"		
3	208/1	26A	28.8	5.99	EE7970-28	60	2	60	45	2	1	2	1	2 #6 AWG THWN, #10 AWG GRD, 3/4"		
4	208/1	26A	28.8	5.99	EE7970-32	60	2	60	45	2	1	2	1	2 #4 AWG THWN, #10 AWG GRD, 1/2"		
5	208/1	26A	28.8	5.99	EE7970-36	60	2	60	45	2	1	2	1	2 #4 AWG THWN, #10 AWG GRD, 1/2"		
<b>7-EF EXHAUST FAN</b>																
1	120/1	1A	1.0	0.12	EE8606-3	20	1							FUSTAT	1 2 #12 AWG THWN, #12 AWG GRD, 1/2"	CONTROLLED W/ LIGHTS
2	120/1	1A	1.0	0.12	EE8606-3	20	1							FUSTAT	1 2 #12 AWG THWN, #12 AWG GRD, 1/2"	CONTROLLED W/ LIGHTS
3	120/1	1A	1.0	0.12	EE8606-5	20	1							FUSTAT	1 2 #12 AWG THWN, #12 AWG GRD, 1/2"	CONTROLLED W/ LIGHTS
4	120/1	1A	1.0	0.12	EE8606-1	20	1							FUSTAT	1 2 #12 AWG THWN, #12 AWG GRD, 1/2"	CONTROLLED W/ LIGHTS
<b>7-TF TRANSFER FAN</b>																
1	120/1	1A	1.0	0.12	EE7968-3	20	1							FUSTAT	1 2 #12 AWG THWN, #12 AWG GRD, 1/2"	RUNS CONTINUOUS
<b>7-WH ELECTRIC WATER HEATER</b>																
1	208/1		12.0	2.498	EE7970-14	20	2	30	-	2				1 2 #12 AWG THWN, #12 AWG GRD, 1/2"		
<b>7-RCP RECIRCULATION PUMP</b>																
1	120/1	1	4.4	0.528	EE7968-1	20	1							FUSTAT	1 2 #12 AWG THWN, #12 AWG GRD, 1/2"	

① ALL CONNECTIONS AND ELECTRICAL EQUIPMENT LISTED IN SCHEDULE SHALL BE PROVIDED AND INSTALLED BY THE ELECTRICAL CONTRACTOR. FIELD VERIFY CONNECTION REQUIREMENTS AND EQUIPMENT PROVIDED BY OTHERS PRIOR TO ROUGH-IN.

② REFER TO MECHANICAL DRAWINGS AND SPECIFICATIONS FOR THE REQUIREMENTS ASSOCIATED WITH WIRING AND CONNECTIONS OF INTERLOCKING, THERMOSTAT LOCATIONS, EXHAUST FAN CONTROL, SWITCHES, AND OTHER CONTROLS OF MECHANICAL EQUIPMENT.

③ SIZE FUSES FOR MOTOR FUSTATS BASED ON 125% OF MANUFACTURER'S NAMEPLATE FULL LOAD AMPERAGE UNLESS OTHERWISE NOTED ON THE DRAWINGS.

④ PROVIDE DUCT MOUNTED SMOKE DETECTORS IN THE SUPPLY AND RETURN DUCTS. VERIFY THE REQUIRED QUANTITY OF DUCT SMOKE DETECTORS FOR EACH UNIT WITH THE FINAL INSTALLED DUCTWORK LAYOUT TO MEET NFPA REQUIREMENTS. PROVIDE FAN SHUT DOWN RELAY TO SHUT DOWN MECHANICAL UNIT UPON ANY ALARM AT THE FIRE ALARM CONTROL PANEL.

⑤ PROVIDE RELAY AND INTERCONNECTING CABLING AS REQUIRED FOR EXHAUST FAN TO BE CONTROLLED VIA LIGHTING AUTOMATIC CONTROLS WITHIN SPACE.

### ① EXIST. PANEL: EE7970

208/120 VOLTS, 1 PHASE, 3 WIRE  
225 AMP MLO, SURFACE MTD.  
22000 AIC LABELED

CIRC NO.	LOAD V. A.	LOAD TYPE	LOAD DESCRIPTION	AMP P. SIZE	AMP F. SIZE	AMP S. SIZE	LOAD DESCRIPTION	LOAD TYPE	LOAD V. A.	CIRC NO.
③ 1		SPAR	SPARE	1	20	A	20	1	SPARE	2
③ 3		SPAR	SPARE	1	20	B	20	1	SPARE	4
③ 5		SPAR	SPARE	1	20	A	20	1	SPARE	6
③ 7		SPAR	SPARE	1	20	B	20	1	SPARE	8
③ 9		SPAR	SPARE	1	20	A	20	1	SPARE	10
③ 11		SPAR	SPARE	1	20	B	20	1	SPARE	12
③ 13		SPAR	SPARE	1	20	A	20	2	7-WH-1	14
③ 15		SPAR	SPARE	1	20	B	20	1	HEAT	2496
② 17	2288	MOTR	7-AHU-1	2	20	A	20	1	SPARE	18
② 19				1	B	50	2	7-CU-1	LCM	4784
② 21	2288	MOTR	7-AHU-2	2	20	A	20	1		22
② 23				1	B	60	2	7-CU-2	LCM	5990
② 25	2288	MOTR	7-AHU-3	2	20	A	20	1		26
② 27				1	B	50	2	7-CU-3	LCM	4784
② 29	1830	MOTR	7-AHU-4	2	20	A	20	1		30
② 31				1	B	60	2	7-CU-4	LCM	5990
④ 33	1830	MOTR	7-AHU-5	2	20	A	20	1		34
③ 35				1	B	60	2	7-CU-5	LCM	5990
37		SPAR	BLANK SPACE	1	20	A	20	1		38
39		SPAR	BLANK SPACE	1	20	B	20	1	BLANK SPACE	40
41		SPAR	BLANK SPACE	1	20	A	20	1	SPARE	42

① EXISTING SQUARE D MOUNTED PANELBOARD. ALL EXISTING CIRCUIT BREAKERS SHALL REMAIN UNLESS OTHERWISE NOTED.

② CONNECT TO EXISTING SPARE BREAKER. BREAKER MADE SPARE BY DEMOLITION. UPDATE PANEL SCHEDULE ACCORDINGLY.

③ BREAKER MADE SPARE BY DEMOLITION.

④ REMOVE EXISTING CIRCUIT BREAKER MADE SPARE BY DEMOLITION. PROVIDE AND INSTALL CIRCUIT BREAKER INDICATED. BREAKER TO MATCH TYPE AND MAX AIC RATING OF EXISTING BREAKERS WITHIN EXISTING PANELBOARD. UPDATE PANEL SCHEDULE ACCORDINGLY.

#### EXIST. PANEL: EE7970

	CONNECTED KVA:			DEMAND FACTOR	CONT. KVA	CONT. FACT	SIZING AMPS:				
	PH-A	PH-B	PH-C				TOTAL	PH-A	PH-B	PH-C	
Largest Motor	2.7	2.7	0.0	5.4	1.0	5.4	1.25	32.5	32.5	32.5	0.0
Motors	6.7	6.7	0.0	13.4	1.0	13.4	1.0	64.6	64.6	64.6	0.0
Cooling	9.6	9.6	0.0	19.2	1.0	19.2	1.0	92.4	92.4	92.4	0.0
Heating	1.2	1.2	0.0	2.5	1.0	2.5	1.25	15.0	15.0	15.0	0.0
TOTAL KVA:	20.3	20.3	0.0	40.6		40.6		204.5	204.5	204.5	0.0
TOTAL AMPS:	195.0	195.0	0.0	195.0		195.0		204.5	204.5	204.5	0.0

#### EXIST. PANEL: EE7968

	CONNECTED KVA:			DEMAND FACTOR	CONT. KVA	CONT. FACT	SIZING AMPS:				
	PH-A	PH-B	PH-C				TOTAL	PH-A	PH-B	PH-C	
Lighting	0.0	0.1	0.0	0.1	1.0	0.1	1.25	0.6	0.4	0.8	0.0
Receptacles	18.2	17.3	0.0	10.0	1.0	10.0	> 1.0	109.4	112.1	106.6	0.0
(First 10000VA at 1.0 + remainder at 0.5)				25.5	0.5	12.8					
Power	0.0	1.0	0.0	1.0	1.0	1.0	1.0	4.8	0.0	9.6	0.0
Largest Motor	0.5	0.0	0.0	0.5	1.0	0.5	1.25	3.1	8.3	0.0	0.0
Motors	0.0	0.1	0.0	0.1	1.0	0.1	1.0	0.6	0.0	1.2	0.0
TOTAL KVA:	18.8	18.5	0.0	37.2		24.5		118.5	118.8	118.2	0.0
TOTAL AMPS:	180.0	178.0	0.0	179.1		179.1		118.5	118.8	118.2	0.0

#### EXIST. PANEL: EE8606

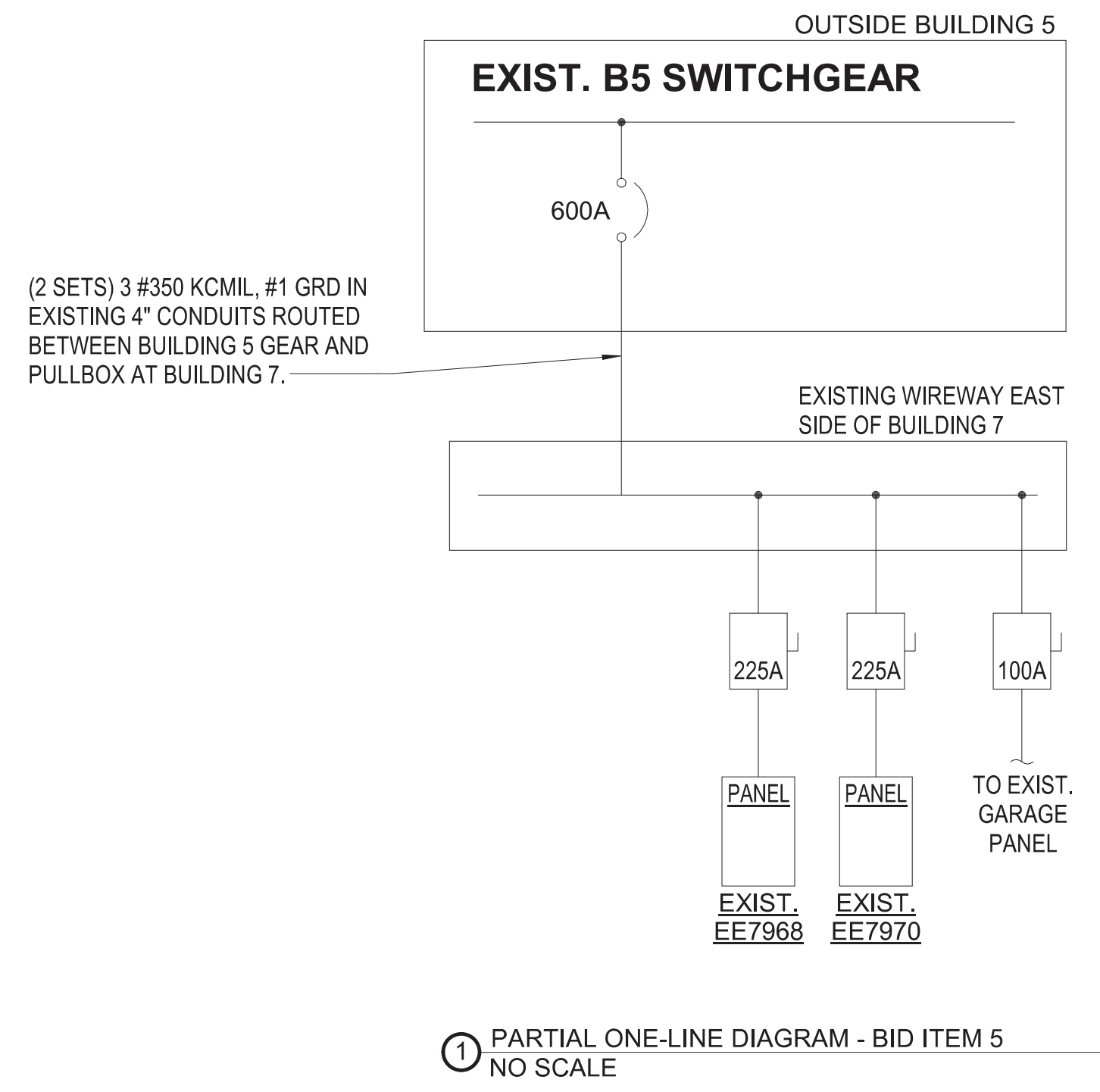
	CONNECTED KVA:			DEMAND FACTOR	CONT. KVA	CONT. FACT	SIZING AMPS:				
	PH-A	PH-B	PH-C				TOTAL	PH-A	PH-B	PH-C	
Lighting	2.1	1.4	0.0	3.5	1.0	3.5	1.25	21.0	25.0	16.9	0.0
Receptacles	0.6	2.2	0.0	2.8	1.0	2.8	1.0	13.5	5.8	21.2	0.0
Power	0.8	0.4	0.0	1.2	1.0	1.2	1.0	5.8	7.7	3.8	0.0
Motors	1.4	0.2	0.0	1.7	1.0	1.7	1.0	8.0	13.6	2.3	0.0
TOTAL KVA:	4.9	4.2	0.0	9.1		9.1		48.3	52.1	44.2	0.0
TOTAL AMPS:	47.0	41.0	0.0	44.0		44.0		48.3	52.1	44.2	0.0

### ① EXIST. PANEL: EE7968

208/120 VOLTS, 1 PHASE, 3 WIRE  
225 AMP MLO, SURFACE MTD.  
22000 AIC LABELED

CIRC NO.	LOAD V. A.	LOAD TYPE	LOAD DESCRIPTION	AMP P. SIZE	AMP F. SIZE	AMP S. SIZE	LOAD DESCRIPTION	LOAD TYPE
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## LIGHTING FIXTURE SCHEDULE

MARK	DESCRIPTION	EXISTING FIXTURE		TO BE REMOVED		LAMP TYPE	WATTS	VOLTAGE	LENS/LOUVER/FINISH	W	L	D	REF. NOTE	Remarks
		NAME	MODEL	NAME	MODEL									
D	DEMO FIXTURE	WILLIAMS	75R-2-L30-835-DRV-UNV	OR EQUAL		1 LED 3500K	24	UNV	WHITE	0.4	2.0	0.3	1.2,3,4,8	2900LM, 3500K, 80+ CRI. PROVIDE WITH WALL MOUNT OR CEILING MOUNT KIT AS REQUIRED.
F2	2' STRIP	WILLIAMS	75R-2-L30-835-DRV-UNV	OR EQUAL		1 LED 3500K	24	UNV	WHITE	0.4	2.0	0.3	1.2,3,4,8	2900LM, 3500K, 80+ CRI. PROVIDE WITH WALL MOUNT OR CEILING MOUNT KIT AS REQUIRED. PROVIDE WITH EMERGENCY BATTERY PACK
F2E	2' STRIP	WILLIAMS	75R-2-L30-835-DRV-UNV	OR EQUAL		1 LED 3500K	24	UNV	WHITE	0.4	2.0	0.3	1.2,3,4,8	2900LM, 3500K, 80+ CRI. PROVIDE WITH WALL MOUNT OR CEILING MOUNT KIT AS REQUIRED. PROVIDE WITH EMERGENCY BATTERY PACK
F4	4' STRIP	WILLIAMS	75R-4-L50-835-DRV-UNV	OR EQUAL		1 LED 3500K	44	UNV	WHITE	0.4	4.0	0.3	1.2,3,4,8	5500LM, 3500K, 80+ CRI. PROVIDE WITH WALL MOUNT OR CEILING MOUNT KIT AS REQUIRED.
HA	4" DOWNLIGHT WITH LENS	WILLIAMS	4PR-TL-20-835-DIM-LW-OF-WH-R	OR EQUAL		1 LED 3500K	23	UNV	SEMI-SPECULAR	0.5	0.5	0.0	1.2,3,4,8	2000LM, 3500K, 80+ CRI, WIDE DISTRIBUTION, REMODEL KIT
K2	2X4 LAY-IN	METALUX	24CZ-LD5-45-S-UNV-L835-CD1	OR EQUAL		1 LED 3500K	36	UNV	SMOOTH ACRYLIC	2.0	4.0	0.3	1.2,3,4,8	4500LM, 3500K, 80+ CRI
KA	2X2 LAY-IN	METALUX	22CZ-LD5-34-S-UNV-L835-CD1	OR EQUAL		1 LED 3500K	30	UNV	SMOOTH ACRYLIC	2.0	2.0	0.3	1.2,3,4,8	3400LM, 3500K, 80+ CRI
KAE	2X2 LAY-IN	METALUX	22CZ-LD5-34-S-UNV-L835-CD1	OR EQUAL		1 LED 3500K	30	UNV	SMOOTH ACRYLIC	2.0	2.0	0.3	1.2,3,4,8	3400LM, 3500K, 80+ CRI, PROVIDE WITH EMERGENCY BATTERY PACK
RD	EXTERIOR WALL MOUNT	LUMARK	XTOR4B-W-BZ-PC1	OR EQUAL		1 LED 4000K	39	UNV	DARK BRONZE	1.1	1.3	0.8	1.2,3,4	4000LM, 4000K, 70+ CRI, PROVIDE WITH PHOTOCELL CONTROLLER AND WALL MOUNT KIT
UB	24" UNDERCABINET	HALO	HU10-24-30-WH	OR EQUAL		1 LED 3000K	10	120	WHITE	0.4	2.0	0.1	1.2,3,4	PROVIDE WITH POWER SUPPLY, CONNECTORS, END CAPS, MOUNTING ACCESSORIES, ETC. FOR A COMPLETE AND FUNCTIONAL INSTALLATION.
X1	1 FACE/AC EXIT	LITHONIA	EDGR-1-R-EL	OR EQUAL		1 LED	5	UNV	CLEAR	0.0	0.0	0.0	1.2,3,4,6	RED WITH BATTERY, SELF DIAGNOSTICS
X2	2 FACE/AC EXIT	LITHONIA	EDGR-2-R-EL	OR EQUAL		1 LED	5	UNV	CLEAR	0.0	0.0	0.0	1.2,3,4,6	RED WITH BATTERY, SELF DIAGNOSTICS

- NOTES:
- GENERAL CONTRACTOR SHALL PROVIDE FIREPROOFING AROUND RECESSED FIXTURES INSTALLED IN FIRE RATED CEILING PER U.L. REQUIREMENTS. ELECTRICAL CONTRACTOR WILL COORDINATE.
  - MANUFACTURERS LISTED IN THIS SCHEDULE OR APPROVED BY WRITTEN ADDENDUM WILL BE THE ONLY APPROVED MANUFACTURERS TO BID THE LIGHTING FIXTURES FOR THIS PROJECT. CONTRACTORS AND SUPPLIERS USING PRICING FROM MANUFACTURERS NOT LISTED ON SCHEDULE OR BY ADDENDUM DO SO AT THEIR OWN RISK.
  - LIGHT FIXTURE SELECTIONS ARE BASED ON THE MANUFACTURER IN THE LEFT MOST COLUMN AS LISTED IN THE SCHEDULE. FIXTURES APPROVED AS EQUALS IN THIS SCHEDULE OR BY ADDENDUM SHALL BE EQUAL TO THE UNIT SPECIFIED IN THE LEFT MOST COLUMN, IE: SPRING LOADED LATCHES, POST PAINTED FINISH, AND PHOTOMETRICS.
  - ALL LIGHT FIXTURES SHALL BE SECURED TO THE CEILING FRAMING SYSTEM BY MECHANICAL MEANS (SUCH AS BOLTS, SCREWS, OR RIVETS) OR BY CLIPS IDENTIFIED FOR USE WITH THE TYPE OF CEILING FRAMING MEMBER AND LIGHT FIXTURE.
  - NOTE NOT USED.
  - PROVIDE ARROWS AND FACES AS INDICATED ON THE DRAWINGS.
  - NOTE NOT USED.
  - LIGHT FIXTURES SHALL BE PROVIDED WITH 0-10V DIMMING DRIVERS. DRIVERS SHALL BE CAPABLE OF DIMMING TO A MINIMUM OF 10% OF TOTAL LIGHT OUTPUT. LED DRIVERS SHALL HAVE A DISCONNECTING MEANS MEETING THE REQUIREMENTS OF NEC SECTION 410.130(G), EXCEPT FOR THOSE INSTALLED IN CORD-AND-PLUG CONNECTED FIXTURES. WHERE APPLICABLE, WHEN DIMMING SWITCHES ARE NOT PROVIDED AS PART OF THE DESIGN, CONTRACTOR SHALL CAP OFF 0-10V DIMMING WIRES FOR FUTURE EXTENSION BY OWNER.

### EQUIPMENT CONNECTION SCHEDULE

MECHANICAL EQUIPMENT CONNECTIONS													
UNIT NO.	UNIT DESIGN	VOLTAGE	LOAD			PANEL DEVICES	DEVICES AT UNIT				FEEDER DESCRIPTION OR SEE THE FEEDER SCHEDULE	REMARKS OR SEE THE INDICATED NOTES BELOW	
			H.P.	FLA	KVA		SW. SIZE	FUSE	START	STOP			OTHER
<b>7-AHU AIR HANDLING UNIT</b>													
1	208/1	1.5	11.0	2.288	EE7970:1	30	15	2	1"	1	2#12 AWG THWN, #12 AWG GRD, 12°C		
2	208/1	1.5	11.0	2.288	EE7970:2	20	12	2	1"	1	2#12 AWG THWN, #12 AWG GRD, 12°C		
3	208/1	1.5	11.0	2.288	EE7970:3	20	12	2	1"	1	2#12 AWG THWN, #12 AWG GRD, 12°C		
4	208/1	1	8.8	1.83	EE7970:4	20	15	2	0"	1	2#12 AWG THWN, #12 AWG GRD, 12°C		
5	208/1	1	8.8	1.83	EE7970:5	20	15	2	0"	1	2#12 AWG THWN, #12 AWG GRD, 12°C		
<b>7-CU CONDENSING UNIT</b>													
1	208/1	26A	28.8	4.784	EE7970:1	60	35	2	1"	1	2#6 AWG THWN, #10 AWG GRD, 34°C		
2	208/1	26A	28.8	4.784	EE7970:2	60	45	2	1"	1	2#4 AWG THWN, #10 AWG GRD, 1°C		
3	208/1	26A	28.8	4.784	EE7970:3	60	35	2	1"	1	2#6 AWG THWN, #10 AWG GRD, 34°C		
4	208/1	26A	28.8	4.784	EE7970:4	60	45	2	1"	1	2#4 AWG THWN, #10 AWG GRD, 1°C		
5	208/1	26A	28.8	4.784	EE7970:5	60	45	2	1"	1	2#4 AWG THWN, #10 AWG GRD, 1°C		
<b>7-EF EXHAUST FAN</b>													
1	120/1	1A	1.0	0.12	EE8606:3	20	11	1			FUSTAT	1	2#12 AWG THWN, #12 AWG GRD, 12°C
2	120/1	1A	1.0	0.12	EE8606:3	20	11	1			FUSTAT	1	2#12 AWG THWN, #12 AWG GRD, 12°C
3	120/1	1A	1.0	0.12	EE8606:5	20	11	1			FUSTAT	1	2#12 AWG THWN, #12 AWG GRD, 12°C
4	120/1	1A	1.0	0.12	EE8606:1	20	11	1			FUSTAT	1	2#12 AWG THWN, #12 AWG GRD, 12°C
<b>7-WH ELECTRIC WATER HEATER</b>													
1	208/1	12.0	2.498	EE7970:4	20	12	30	-	2			1	2#12 AWG THWN, #12 AWG GRD, 12°C
<b>7-RCP RECIRCULATION PUMP</b>													
1	120/1	1	4.4	0.528	EE7968:1	20	11	1			FUSTAT	1	2#12 AWG THWN, #12 AWG GRD, 12°C

① ALL CONNECTIONS AND ELECTRICAL EQUIPMENT LISTED IN SCHEDULE SHALL BE PROVIDED AND INSTALLED BY THE ELECTRICAL CONTRACTOR. FIELD VERIFY CONNECTION REQUIREMENTS AND EQUIPMENT PROVIDED BY OTHERS PRIOR TO ROUGH-IN.

② REFER TO MECHANICAL DRAWINGS AND SPECIFICATIONS FOR THE REQUIREMENTS ASSOCIATED WITH WIRING AND CONNECTIONS OF INTERLOCKING, THERMOSTAT LOCATIONS, EXHAUST FAN CONTROL SWITCHES, AND OTHER CONTROLS OF MECHANICAL EQUIPMENT.

③ SIZE FUSES FOR MOTOR FUSTATS BASED ON 125% OF MANUFACTURER'S NAMEPLATE FULL LOAD AMPERAGE UNLESS OTHERWISE NOTED ON THE DRAWINGS.

④ PROVIDE DUCT MOUNTED SMOKE DETECTORS IN THE SUPPLY AND RETURN DUCTS. VERIFY THE REQUIRED QUANTITY OF DUCT SMOKE DETECTORS FOR EACH UNIT WITH THE FINAL INSTALLED DUCTWORK LAYOUT TO MEET NFPA REQUIREMENTS. PROVIDE FAN SHUT DOWN RELAY TO SHUT DOWN MECHANICAL UNIT UPON ANY ALARM AT THE FIRE ALARM CONTROL PANEL.

⑤ PROVIDE RELAY AND INTERCONNECTING CABLING AS REQUIRED FOR EXHAUST FAN TO BE CONTROLLED VIA LIGHTING AUTOMATIC CONTROLS WITHIN SPACE.

### EXIST. PANEL: EE7970

208/120 VOLTS, 1 PHASE, 3 WIRE  
225 AMP MLO, SURFACE MTD.  
22000 AIC LABELED

CIRC NO.	LOAD V.A.	LOAD TYPE	LOAD DESCRIPTION	AMP P. SIZE	AMP F. SIZE	AMP S. SIZE	LOAD DESCRIPTION	LOAD TYPE	LOAD V.A.	CIRC NO.
③ 1	---	SPAR	SPARE	1	20	A	20	1	SPARE	2
③ 3	---	SPAR	SPARE	1	20	B	20	1	SPARE	4
③ 5	---	SPAR	SPARE	1	20	A	20	1	SPARE	6
③ 7	---	SPAR	SPARE	1	20	B	20	1	SPARE	8
③ 9	---	SPAR	SPARE	1	20	A	20	1	SPARE	10
③ 11	---	SPAR	SPARE	1	20	B	20	1	SPARE	12
③ 13	---	SPAR	SPARE	1	20	A	20	2	7-WH-1	14
③ 15	---	SPAR	SPARE	1	20	B	20	1	---	16
② 17	2288	MOTR	7-AHU-1	2	20	A	20	1	SPARE	18
19	---	---	---	---	---	B	50	2	7-CU-1	20
21	2288	MOTR	7-AHU-2	2	20	A	1	1	---	22
23	---	---	---	---	---	B	60	2	7-CU-2	24
② 25	2288	MOTR	7-AHU-3	2	20	A	1	1	---	26
27	---	---	---	---	---	B	60	2	7-CU-3	28
② 29	1830	MOTR	7-AHU-4	2	20	A	1	1	---	30
31	---	---	---	---	---	B	60	2	7-CU-4	32
④ 33	1830	MOTR	7-AHU-5	2	20	A	1	1	---	34
35	---	---	---	---	---	B	60	2	7-CU-5	36
37	---	SPAR	BLANK SPACE	1	20	A	1	1	---	38
39	---	SPAR	BLANK SPACE	1	20	B	20	1	BLANK SPACE	40
41	---	SPAR	BLANK SPACE	1	20	A	20	1	SPARE	42

① EXISTING SQUARE D NOOD PANELBOARD. ALL EXISTING CIRCUIT BREAKERS SHALL REMAIN UNLESS OTHERWISE NOTED.

② CONNECT TO EXISTING SPARE BREAKER. BREAKER MADE SPARE BY DEMOLITION. UPDATE PANEL SCHEDULE ACCORDINGLY.

③ BREAKER MADE SPARE BY DEMOLITION.

④ REMOVE EXISTING CIRCUIT BREAKER MADE SPARE BY DEMOLITION. PROVIDE AND INSTALL CIRCUIT BREAKER INDICATED. BREAKER TO MATCH TYPE AND MAX AIC RATING OF EXISTING BREAKERS WITHIN EXISTING PANELBOARD. UPDATE PANEL SCHEDULE ACCORDINGLY.

#### EXIST. PANEL: EE7970

	CONNECTED KVA:			DEMAND FACTOR	CONT. KVA	CONT. FACT	SIZING AMPS:				
	PH-A	PH-B	PH-C				TOTAL	PH-A	PH-B	PH-C	
Largest Motor	2.7	2.7	0.0	5.4	1.0	5.4	1.25	32.5	32.5	32.5	0.0
Motors	6.7	6.7	0.0	13.4	1.0	13.4	1.0	64.6	64.6	64.6	0.0
Cooling	9.6	9.6	0.0	19.2	1.0	19.2	1.0	92.4	92.4	92.4	0.0
Heating	1.2	1.2	0.0	2.5	1.0	2.5	1.25	15.0	15.0	15.0	0.0
TOTAL KVA:	20.3	20.3	0.0	40.6		40.6		204.5	204.5	204.5	0.0
TOTAL AMPS:	195.0	195.0	0.0	195.0		195.0		204.5	204.5	204.5	0.0

#### EXIST. PANEL: EE7968

	CONNECTED KVA:			DEMAND FACTOR	CONT. KVA	CONT. FACT	SIZING AMPS:				
	PH-A	PH-B	PH-C				TOTAL	PH-A	PH-B	PH-C	
Lighting	0.0	0.1	0.0	0.1	1.0	0.1	1.25	0.6	0.4	0.8	0.0
Receptacles	18.2	17.3	0.0	10.0	1.0	10.0	> 1.0	109.4	112.1	106.6	0.0
(First 10000VA at 1.0 + remainder at 0.5)				25.5	0.5	12.8					
Power	0.0	1.0	0.0	1.0	1.0	1.0	1.0	4.8	0.0	9.6	0.0
Largest Motor	0.5	0.0	0.0	0.5	1.0	0.5	1.25	3.1	8.3	0.0	0.0
Motors	0.0	0.1	0.0	0.1	1.0	0.1	1.0	0.6	0.0	1.2	0.0
TOTAL KVA:	18.8	18.5	0.0	37.2		24.5		118.5	118.8	118.2	0.0
TOTAL AMPS:	180.0	178.0	0.0	179.1		179.1		118.5	118.8	118.2	0.0

#### EXIST. PANEL: EE8606

	CONNECTED KVA:			DEMAND FACTOR	CONT. KVA	CONT. FACT	SIZING AMPS:				
	PH-A	PH-B	PH-C				TOTAL	PH-A	PH-B	PH-C	
Lighting	2.1	1.4	0.0	3.5	1.0	3.5	1.25	21.0	25.0	16.9	0.0
Receptacles	0.6	2.2	0.0	2.8	1.0	2.8	1.0	13.5	5.8	21.2	0.0
Power	0.8	0.4	0.0	1.2	1.0	1.2	1.0	5.8	7.7	3.8	0.0
Motors	1.4	0.2	0.0	1.7	1.0	1.7	1.0	8.0	13.6	2.3	0.0
TOTAL KVA:	4.9	4.2	0.0	9.1		9.1		48.3	52.1	44.2	0.0
TOTAL AMPS:	47.0	41.0	0.0	44.0		44.0		48.3	52.1	44.2	0.0

### EXIST. PANEL: EE7968

208/120 VOLTS, 1 PHASE, 3 WIRE  
225 AMP MLO, SURFACE MTD.  
22000 AIC LABELED

CIRC NO.	LOAD V.A.	LOAD TYPE	LOAD DESCRIPTION	AMP P. SIZE	AMP F. SIZE	AMP S. SIZE	LOAD DESCRIPTION	LOAD TYPE	LOAD V.A.	CIRC NO.
② 1	528	MOTR	7-RCP-1	1	20	A	20	1	REC - OFFICE 101	800
③ 3	---	SPAR	SPARE	1	20	B	20	1	REC - OFFICE 102	800
③ 5	---	SPAR	SPARE	1	20	A	20	1	REC - PRINTER 103	1000
③ 7	---	SPAR	SPARE	1	20	B	20	1	REC - 103/104/105/127	1000
③ 9	---	SPAR	SPARE	1	20	A	20	1	REC - PSA 111/HALL 113	1000
② 11	1200	RPT	REC - COPIER/FAX RM 127	1	20	B	20	1	REC - PRINTER 111 EAST	1010
② 13	1200	RPT	REC - COPIER/FAX RM 201A	1	20	A	20	1	REC - NURSE OFFICE 112	800
③ 15	---	SPAR								





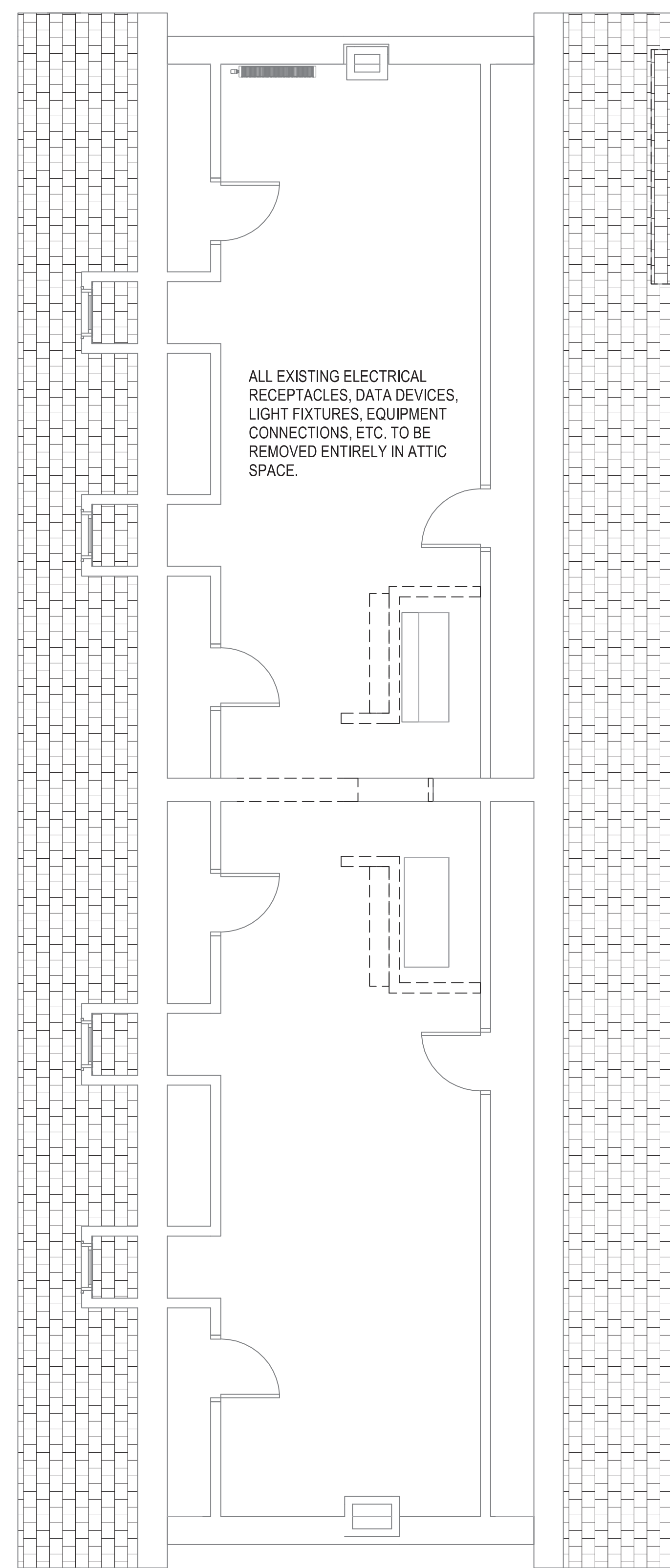
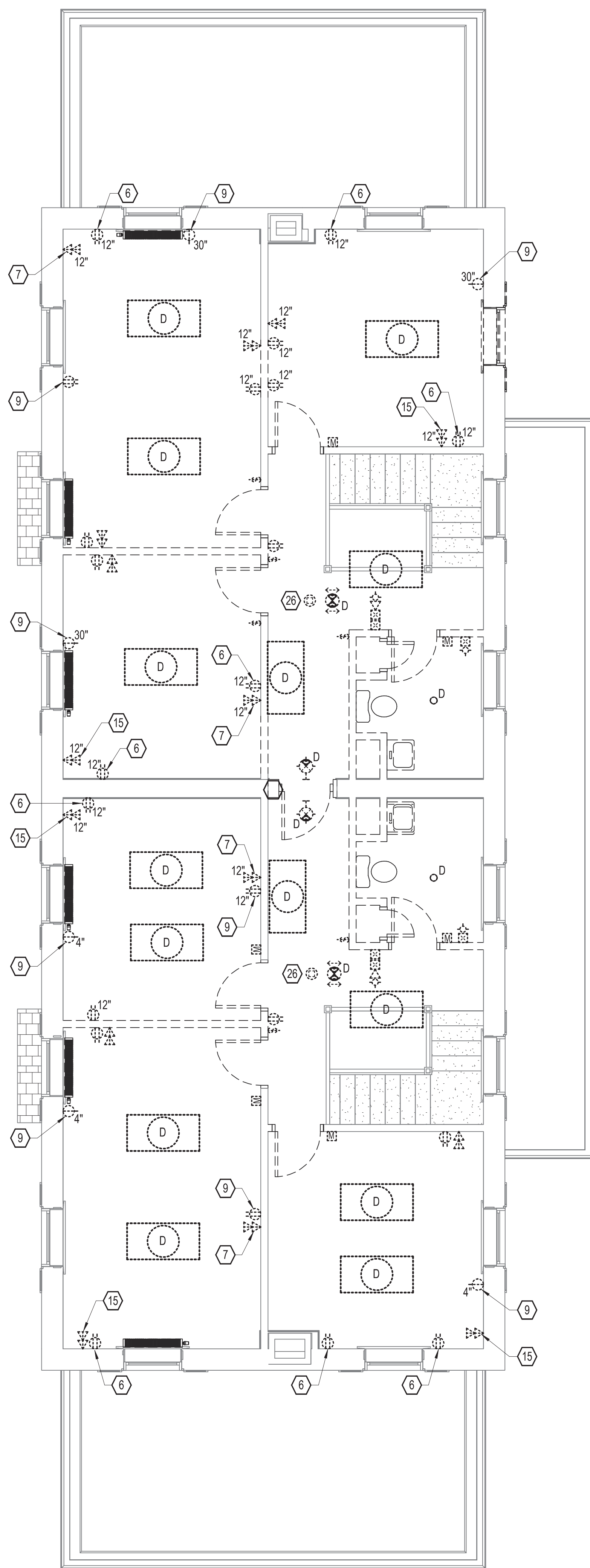


**DEMOLITION PLAN NOTES:**

- DEMOLITION PLANS SHOW THE GENERAL EXTENT OF THE ELECTRICAL DEMOLITION WORK. THE ELECTRICAL CONTRACTOR SHALL DISCONNECT ELECTRICAL SERVICES TO ALL EQUIPMENT BEING REMOVED. SEE MECHANICAL PLANS. OWNER SHALL HAVE THE OPTION TO RETAIN REUSABLE ITEMS, SUCH AS COVERPLATES, RECEPTACLES, LIGHTS, PANELS, ETC. NOT BEING USED IN THE FINISHED WORK. COORDINATE WITH OWNER PRIOR TO STARTING DEMOLITION. PROPERLY AND LEGALLY DISPOSE OF ALL EQUIPMENT AND MATERIALS BEING REMOVED.
- REMOVE ALL CONDUIT LEFT EXPOSED BY REMOVAL OF WALLS AND CEILINGS IN REMODELED AREAS. PLUG BOTH ENDS OF REMAINING CONDUIT IN WALL OR FLOOR WHERE CUT.
- ELECTRICAL OUTLETS, ETC. POSSIBLY CONCEALED BY STORAGE SHELVING, CASEWORK, FURNITURE, ETC. ARE NOT SHOWN AND MAY REQUIRE REMOVAL.
- GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING ALL OPENINGS IN EXISTING CONSTRUCTION AFTER REMOVAL OF EQUIPMENT AND ELECTRICAL DEVICES, ETC.
- WHERE EQUIPMENT AND OTHER DEVICES ARE BEING REMOVED, THE CIRCUITING SHALL BE REMOVED, IF POSSIBLE, BACK TO POINT OF SUPPLY. WHERE REQUIRED, CIRCUITING SHALL BE EXTENDED TO MAINTAIN CONTINUITY OF THE CIRCUIT OR OPERATION OF THE SYSTEM.
- ALL DEVICES SHOWN DASHED ON THE DEMOLITION PLAN(S) SHALL BE REMOVED, UNLESS NOTED OTHERWISE.
- PROVIDE MATCHING BLANK COVERPLATES WHERE DEVICES ARE BEING REMOVED FROM EXISTING WALLS TO REMAIN.
- FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO BEGINNING WORK.

**# KEYED NOTES:**

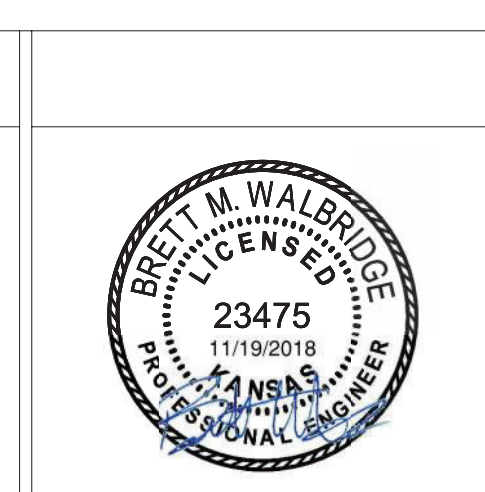
- EXISTING RECEPTACLE TO BE REMOVED AND REPLACED. EXISTING CIRCUITING TO BE REMOVED BACK TO SOURCE. EXISTING OUTLET BOX AND CONDUIT IN WALL TO REMAIN AND BE RE-USED AS REQUIRED. SEE POWER PLANS FOR NEW CIRCUIT INFORMATION.
- EXISTING PHONE AND/OR DATA DEVICE, OUTLET BOX AND ALL ASSOCIATED CONDUIT AND CABLING TO BE REMOVED BACK TO SOURCE.
- EXISTING RECEPTACLE, OUTLET BOX AND ALL ASSOCIATED CONDUIT AND CIRCUITING TO BE REMOVED ENTIRELY.
- EXISTING PHONE AND/OR DATA DEVICE TO BE REMOVED AND REPLACED. EXISTING CABLING TO BE REMOVED BACK TO SOURCE. EXISTING OUTLET BOX AND EXISTING PATHWAY TO REMAIN AND BE RE-USED AS REQUIRED. SEE SYSTEMS PLANS FOR NEW CABLING INFORMATION.
- EXISTING SPEAKER TO BE REMOVED AND REPLACED WITH RECESSED CEILING TYPE. PRESERVE SPEAKER CIRCUITING DURING DEMOLITION WORK. SEE SYSTEMS PLANS FOR NEW SPEAKER LOCATION.



three inches = one foot  
one and one half inches = one foot  
one inch = one foot  
three quarters inch = one foot  
one half inch = one foot  
one quarter inch = one foot  
three eighths inch = one foot  
one quarter inch = one foot  
one eighth inch = one foot  
one eighth inch = one foot

Revisions:	Date

**CONSULTANTS:**  
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**ARCHITECT/ENGINEERS:**

**m HEG**  
ARCHITECTURE

**PEC**  
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.  
303 SOUTH TOPEKA WICHITA, KS 67202  
316-262-2891 www.pec1.com

Drawing Title  
**ELECTRICAL DEMOLITION PLANS**

Approved: Project Director

Project Title <b>RENOVATE AND MODERNIZE VENTILATION SYSTEMS BLDG. 7</b>			Project Number <b>589A7-18-301</b>
Contract No.: <b>VA255-17-D-0080</b>			Building Number <b>7</b>
Task Order No.: <b>36C25518M1024</b>			Drawing Number <b>ED102</b>
Obligation No.: <b>589-C81081</b>			Dwg.
Location <b>Wichita, Kansas</b>			
Date <b>11/19/2018</b>	Checked <b>BMW</b>	Drawn <b>JLW</b>	

Office of Construction and Facilities Management

Department of Veterans Affairs

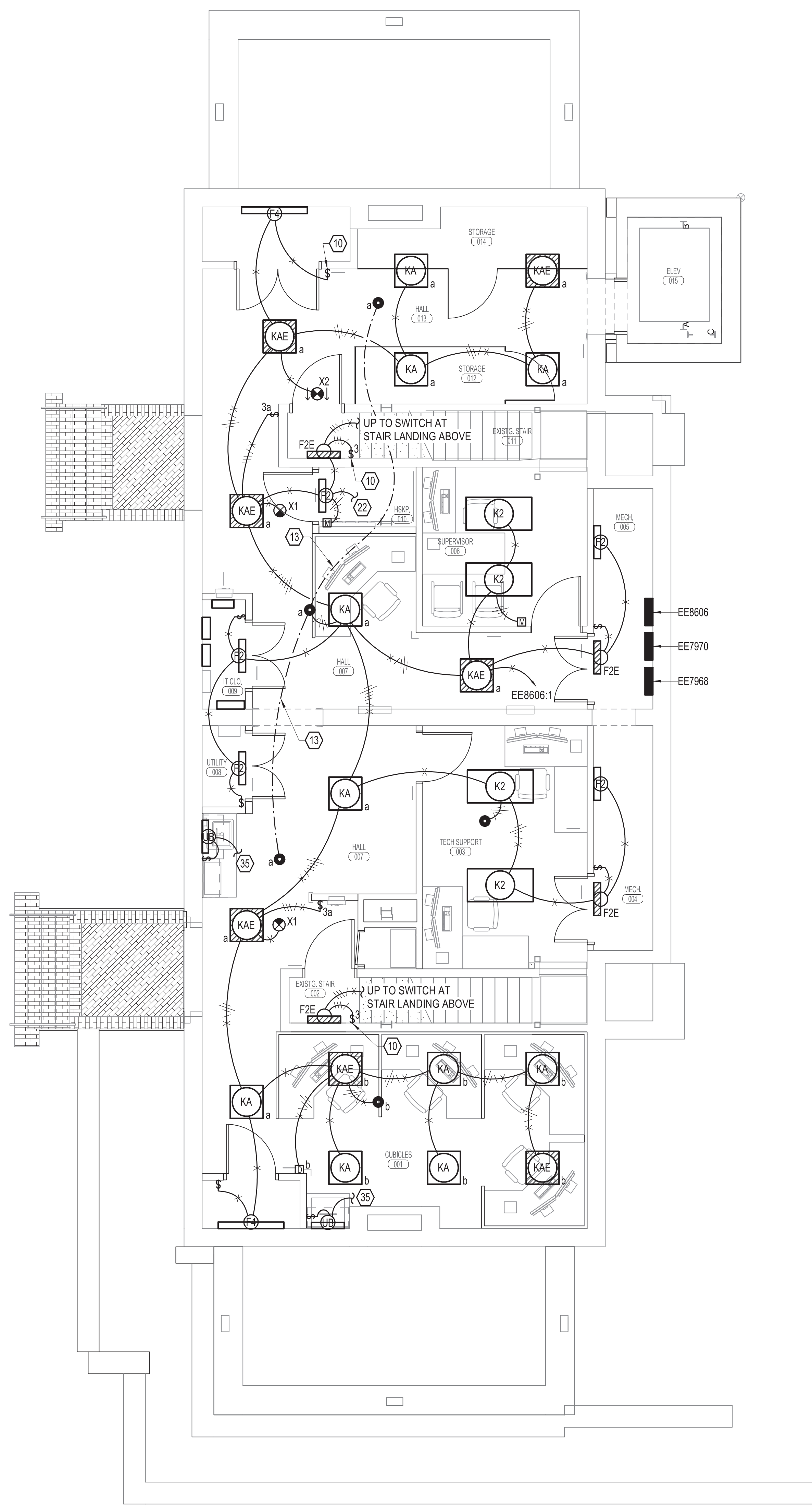


**LIGHTING PLAN NOTES:**

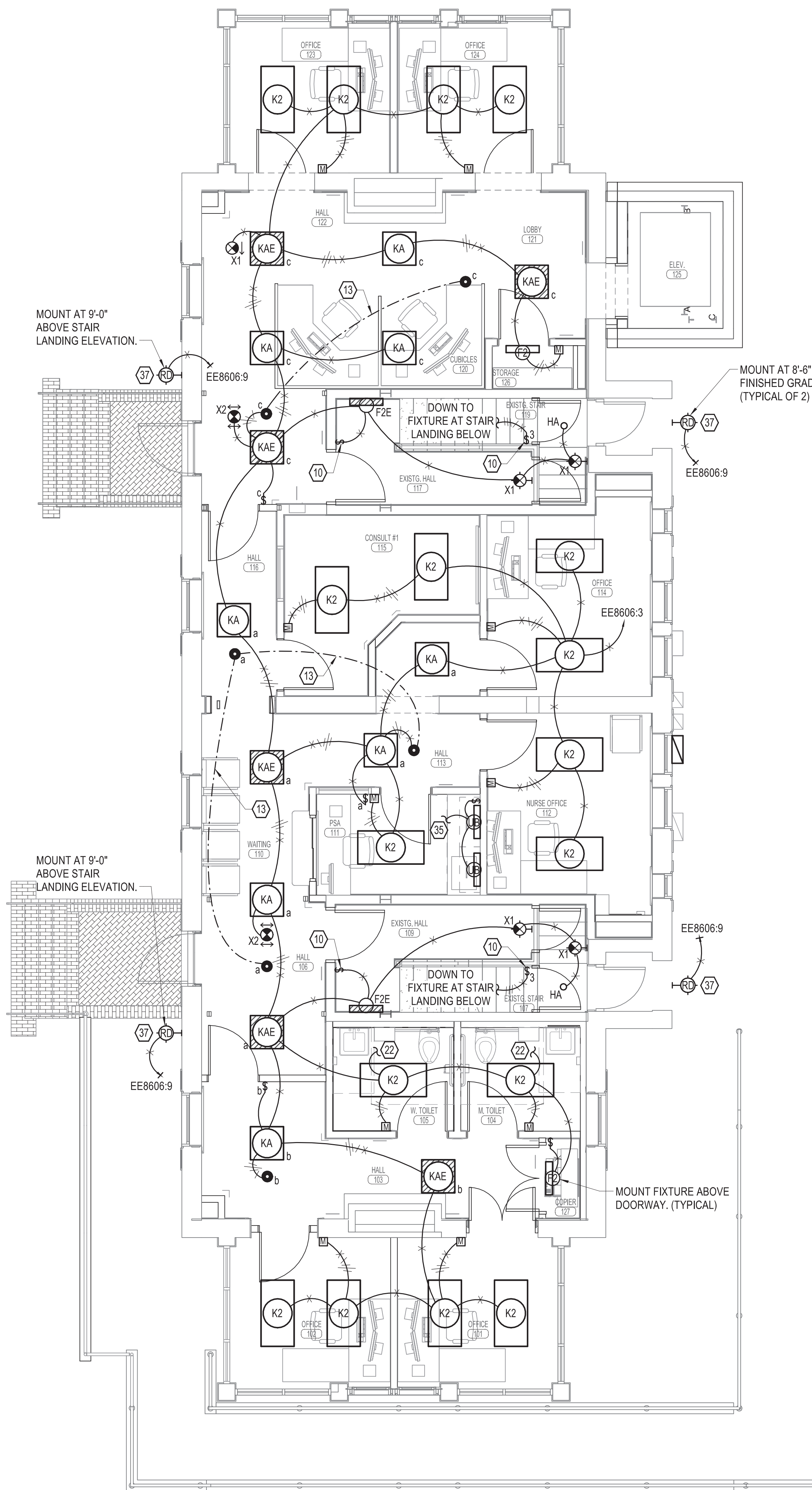
- BRANCH CIRCUITS ARE INDICATED AS ONE CIRCUIT HOME RUNS WITH INDIVIDUAL NEUTRALS. A MAXIMUM OF THREE CIRCUITS (MAXIMUM OF THREE PHASE CONDUCTORS) MAY BE GROUPED IN A SINGLE CONDUIT. WHERE MULTIPLE CIRCUITS ARE LOCATED IN THE SAME RACEWAY, JUNCTION BOX OR ENCLOSURE, NEUTRALS SHALL BE MARKED OR LABELED TO INDICATE WHICH CIRCUIT THEY ARE ASSOCIATED WITH. SEE SPECIFICATION SECTION "LOW VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES" FOR ADDITIONAL INFORMATION.
- A GROUND CONDUCTOR SIZED PER N.E.C. ARTICLE 250 IS REQUIRED IN ALL CONDUITS.
- ALL PENETRATIONS IN THE RATED WALLS AND CEILINGS SHALL BE SEALED WITH A MATERIAL CAPABLE OF PREVENTING THE PASSAGE OF FLAMES AND HOT GASSES. THE SEALANT SHALL HAVE A T-RATING OF ONE HOUR.
- ALL PIPING, CONDUIT, AND OUTLET BOXES (ELECTRIC, TELEPHONE, COMPUTER, ETC.) IN THE RATED WALLS OR CEILING SHALL BE CONSTRUCTED OF NON-COMBUSTIBLE MATERIAL.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LIGHT FIXTURE LOCATIONS. VERIFY ALL DISCREPANCIES WITH ARCHITECT PRIOR TO ROUGH-IN.

**KEYED NOTES:**

- INSTALL DEVICE IN EXISTING OUTLET BOX. CONTRACTOR HAS OPTION TO UTILIZE EXISTING CONDUIT OR PATHWAY FOR ROUTING OF NEW CABLING/CIRCUITING AS INDICATED.
- INTERLOCK OCCUPANCY SENSORS AS REQUIRED.
- TO EXHAUST FAN WITHIN SPACE, PROVIDE RELAY AS REQUIRED FOR CONTROL OF FAN WITH LIGHTS IN SPACE.
- CONNECT TO 120V, RECEPTACLE CIRCUIT AT COUNTERTOP BELOW. MOUNT TOGGLE SWITCH AND RECEPTACLE UNDER SAME COVERPLATE.
- INSTALL FIXTURE IN SAME PLACE AS EXISTING LIGHT FIXTURE AND BOX IN EXTERIOR WALL. VERIFY EXISTING CUTOUT AND BOX IS COMPLETELY COVERED AND SEALED. CONTRACTOR HAS OPTION TO RE-USE EXISTING CONDUIT AS REQUIRED FOR ROUTING OF LIGHTING CIRCUIT.



**(A) ELECTRICAL BASEMENT LIGHTING PLAN**  
1/4" = 1'-0"

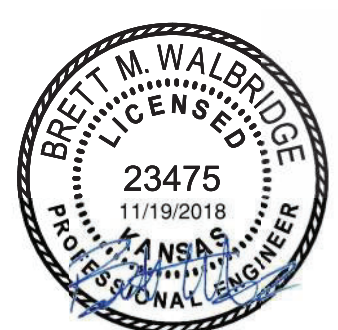


**(B) ELECTRICAL FIRST FLOOR LIGHTING PLAN**  
1/4" = 1'-0"

Revisions:	Date

**CONSULTANTS:**

--



**ARCHITECT/ENGINEERS:**



**Drawing Title**  
**ELECTRICAL LIGHTING PLANS**

Approved: Project Director

**Project Title**  
RENOVATE AND MODERNIZE VENTILATION SYSTEMS BLDG. 7  
Contract No.: VA255-17-D-0080  
Task Order No.: 36C25518N1024  
Obligation No.: 599-C81081

**Location**  
Wichita, Kansas

Date: 11/19/2018  
Checked: BMW  
Drawn: JLW

**Project Number**  
589A7-18-301

**Building Number**  
7

**Drawing Number**  
**EL101**

Dwg.

**Office of Construction and Facilities Management**

**Department of Veterans Affairs**

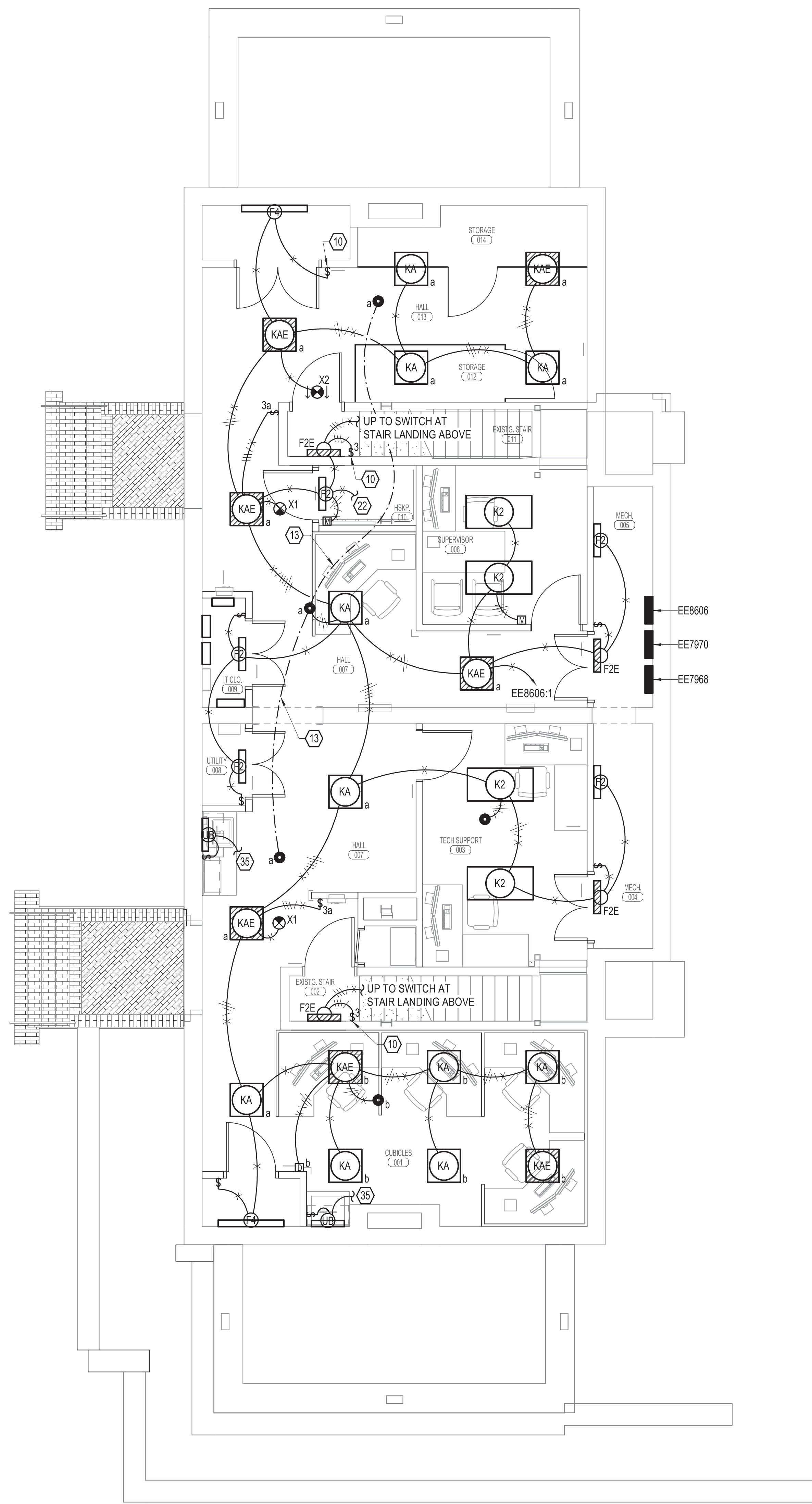


**LIGHTING PLAN NOTES:**

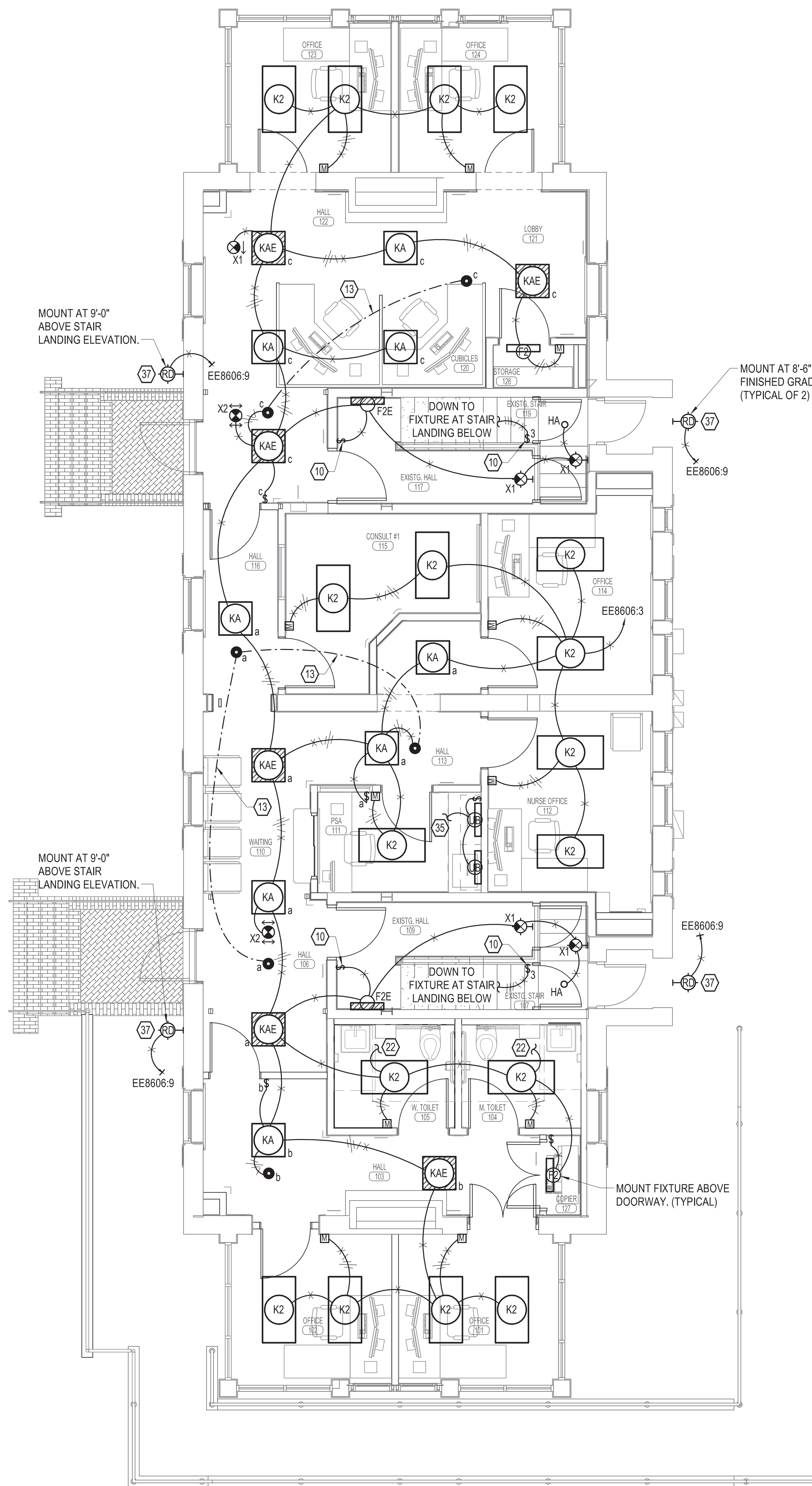
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- A GROUND CONDUCTOR SIZED PER N.E.C. ARTICLE 250 IS REQUIRED IN ALL CONDUITS.
- ALL PENETRATIONS IN THE RATED WALLS AND CEILINGS SHALL BE SEALED WITH A MATERIAL CAPABLE OF PREVENTING THE PASSAGE OF FLAMES AND HOT GASSES. THE SEALANT SHALL HAVE A T-RATING OF ONE HOUR.
- ALL PIPING, CONDUIT, AND OUTLET BOXES (ELECTRIC, TELEPHONE, COMPUTER, ETC.) IN THE RATED WALLS OR CEILING SHALL BE CONSTRUCTED OF NON-COMBUSTIBLE MATERIAL.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LIGHT FIXTURE LOCATIONS. VERIFY ALL DISCREPANCIES WITH ARCHITECT PRIOR TO ROUGH-IN.

**KEYED NOTES:**

- INSTALL DEVICE IN EXISTING OUTLET BOX. CONTRACTOR HAS OPTION TO UTILIZE EXISTING CONDUIT OR PATHWAY FOR ROUTING OF NEW CABLING/CIRCUITING AS INDICATED.
- INTERLOCK OCCUPANCY SENSORS AS REQUIRED.
- TO EXHAUST FAN WITHIN SPACE. PROVIDE RELAY AS REQUIRED FOR CONTROL OF FAN WITH LIGHTS IN SPACE.
- CONNECT TO 120V. RECEPTACLE CIRCUIT AT COUNTERTOP BELOW. MOUNT TOGGLE SWITCH AND RECEPTACLE UNDER SAME COVERPLATE.
- INSTALL FIXTURE IN SAME PLACE AS EXISTING LIGHT FIXTURE AND BOX IN EXTERIOR WALL. VERIFY EXISTING CUTOUT AND BOX IS COMPLETELY COVERED AND SEALED. CONTRACTOR HAS OPTION TO RE-USE EXISTING CONDUIT AS REQUIRED FOR ROUTING OF LIGHTING CIRCUIT.



**A ELECTRICAL BASEMENT LIGHTING PLAN - BID ITEM 5**  
1/4" = 1'-0"

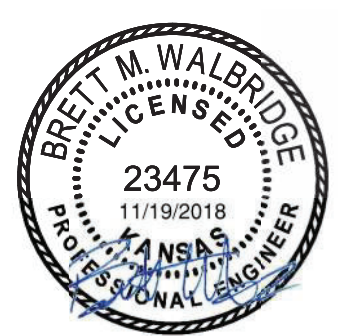


**B ELECTRICAL FIRST FLOOR LIGHTING PLAN - BID ITEM 5**  
1/4" = 1'-0"

Revisions:	Date

**CONSULTANTS:**

--



**ARCHITECT/ENGINEERS:**

**M HEG**  
ARCHITECTURE



Drawing Title  
**ELECTRICAL LIGHTING PLANS - BID ITEM 5**

Approved: Project Director

Project Title  
**RENOVATE AND MODERNIZE VENTILATION SYSTEMS BLDG. 7**

Contract No.: VA255-17-D-0080  
Task Order No.: 36C25518N1024  
Obligation No.: 589-C81081

Location  
**Wichita, Kansas**

Date: 11/19/2018  
Checked: BMW  
Drawn: JLW

Project Number: 589A7-18-301  
Building Number: 7  
Drawing Number: **EL101.5**  
Dwg.

Office of Construction and Facilities Management  
Department of Veterans Affairs

















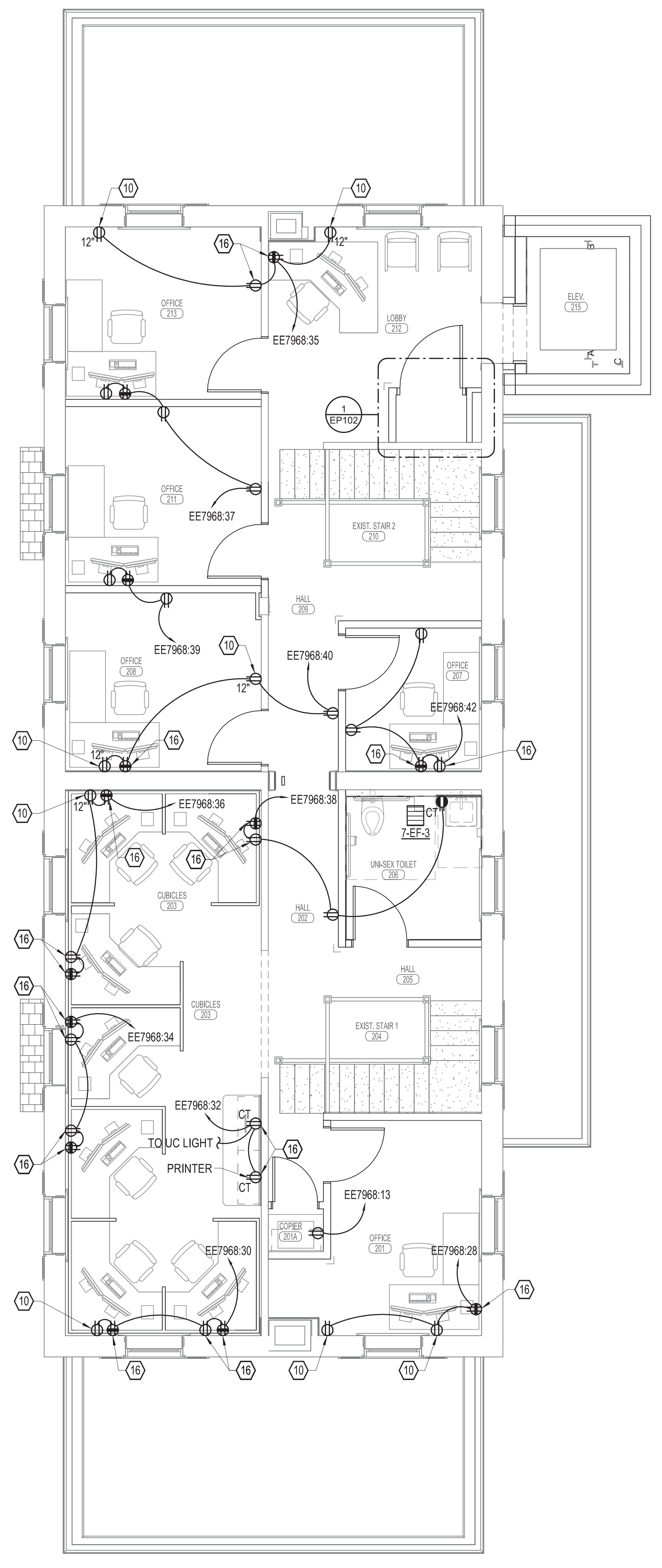


**POWER PLAN NOTES:**

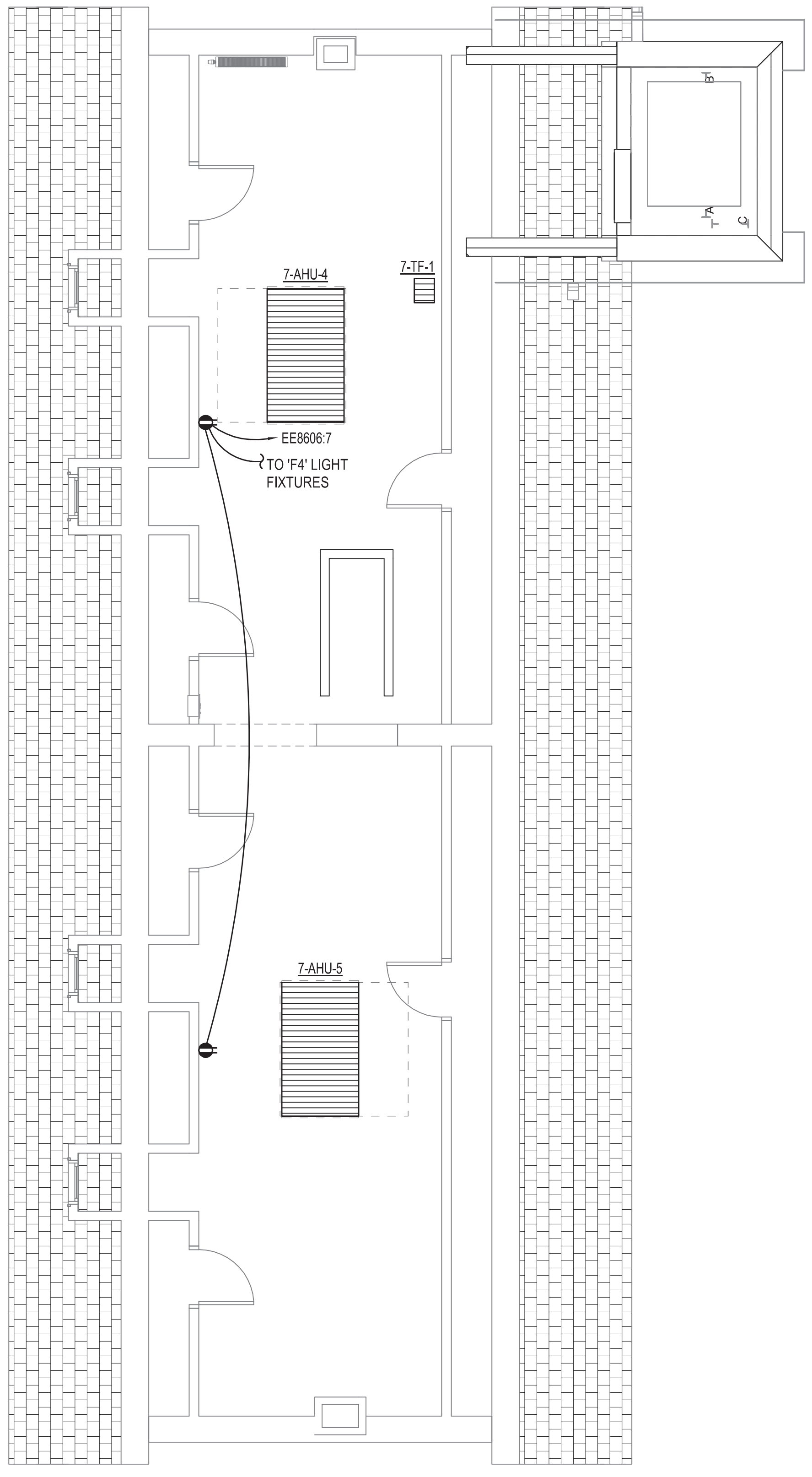
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- A GROUND CONDUCTOR SIZED PER N.E.C. ARTICLE 250 IS REQUIRED IN ALL CONDUITS.
- FOR CONNECTION REQUIREMENTS TO MECHANICAL UNITS, SEE MECHANICAL EQUIPMENT CONNECTION SCHEDULE.
- ALL PENETRATIONS IN THE RATED WALLS AND CEILINGS SHALL BE SEALED WITH A MATERIAL CAPABLE OF PREVENTING THE PASSAGE OF FLAMES AND HOT GASSES. THE SEALANT SHALL HAVE A T-RATING OF ONE HOUR.
- ALL PIPING, CONDUIT, AND OUTLET BOXES (ELECTRIC, TELEPHONE, COMPUTER, ETC.) IN THE RATED WALLS OR CEILING SHALL BE CONSTRUCTED OF NON-COMBUSTIBLE MATERIAL.
- OUTLET BOXES (ELECTRIC, TELEPHONE, COMPUTER, ETC.) SHALL BE LIMITED TO TWO OUTLET BOXES PER STUD SPACE. OUTLET BOXES ON OPPOSITE SIDES OF THE RATED WALLS SHALL BE SEPARATED BY A HORIZONTAL DISTANCE OF 24 INCHES.
- FIELD VERIFY THE EXACT LOCATION OF ALL FLOOR BOXES AND POKE-THROUGHS WITH ARCHITECT PRIOR TO ROUGH-IN.
- PROVIDE ALL ISOLATED GROUND CIRCUITS WITH INDIVIDUAL NEUTRAL CONDUCTORS AND EQUIPMENT GROUND CONDUCTORS.

**KEYED NOTES:**

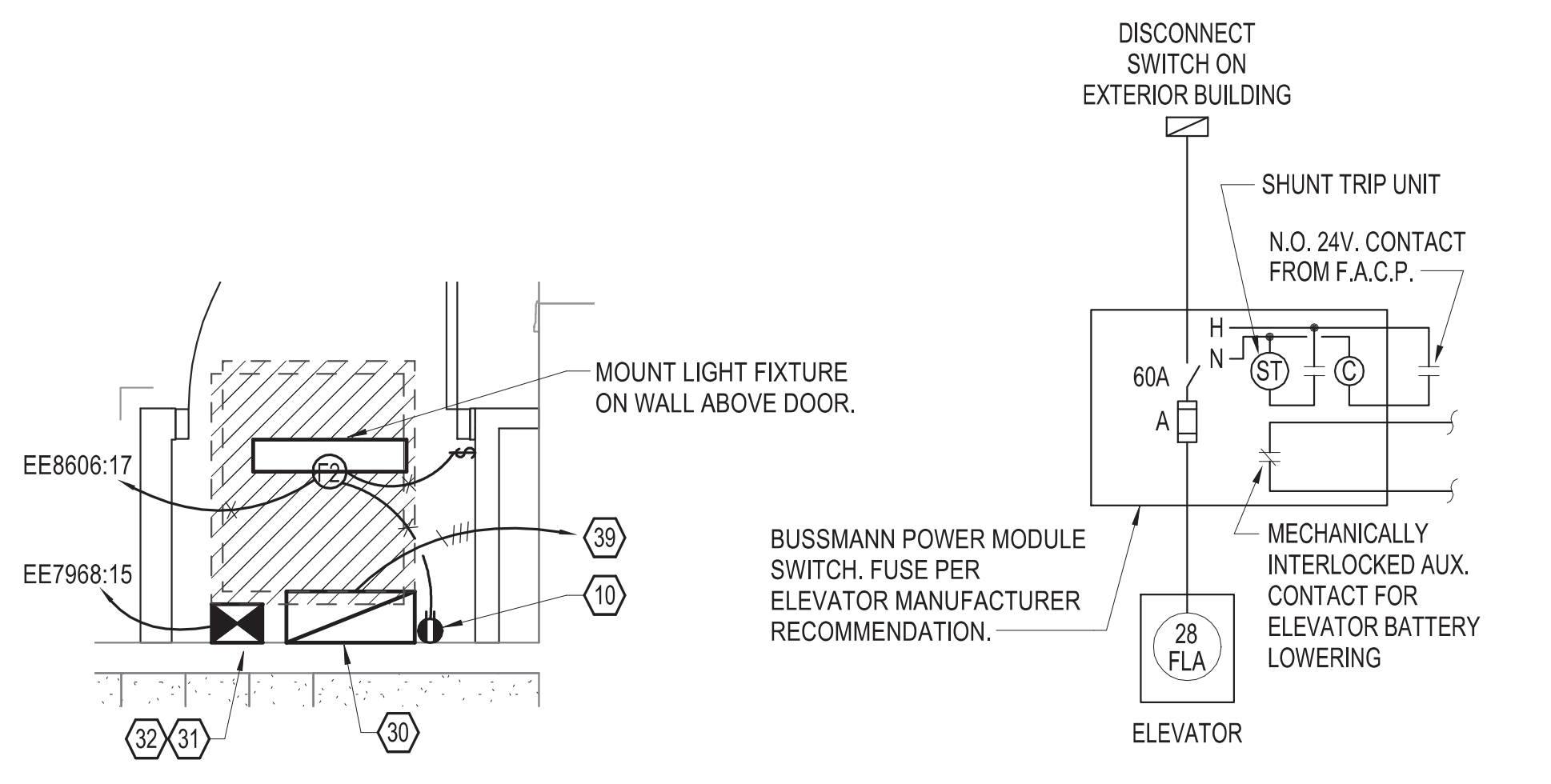
- INSTALL DEVICE IN EXISTING OUTLET BOX. CONTRACTOR HAS OPTION TO UTILIZE EXISTING CONDUIT OR PATHWAY FOR ROUTING OF NEW CABLING/CIRCUITING AS INDICATED.
- DEVICE SHALL BE INSTALLED SURFACE MOUNTED AT 12" AFF WITH SURFACE MOUNTED CONDUIT, STUB CONDUIT AND CABLING UP FROM FLOOR CAVITY BELOW IN ORDER TO MINIMIZE THE LENGTH OF SURFACE MOUNTED CONDUIT.
- FUSED MAIN DISCONNECT SWITCH (BUSSMANN POWER MODULE SWITCH OR EQUAL) FOR ELEVATOR. PROVIDE A NAMEPLATE TO IDENTIFY THE LOCATION OF THE SUPPLY SIDE OVERCURRENT PROTECTIVE DEVICE PER N.E.C. ARTICLE 620. SEE ONE-LINE PORTION OF THIS DETAIL.
- 20A, 120V, GFCI CIRCUIT BREAKER WITH LOCKABLE COVER (OFF POSITION) FOR ELEVATOR CAR LIGHTING. PROVIDE A NAMEPLATE TO IDENTIFY THE LOCATION OF THE SUPPLY SIDE OVERCURRENT PROTECTIVE DEVICE PER N.E.C. ARTICLE 620.53.
- CONNECT ELEVATOR CAB POWER AND CONTROLS AS REQUIRED BY ELEVATOR MANUFACTURER. VERIFY ALL REQUIREMENTS WITH ELEVATOR MANUFACTURER PRIOR TO INSTALLATION.
- ROUTE 3 #4, #8 GRD. IN 1-1/2" CONDUIT TO DISCONNECT SWITCH MOUNTED ON EXTERIOR OF BUILDING AT ELECTRICAL SERVICE ENTRANCE.



**A ELECTRICAL SECOND FLOOR POWER PLAN**  
1/4" = 1'-0"



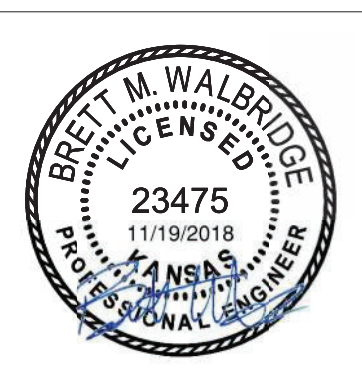
**B ELECTRICAL ATTIC POWER PLAN**  
1/4" = 1'-0"



**C ENLARGED ELEVATOR EQUIPMENT ROOM ELECTRICAL PLAN**  
1/2" = 1'-0"

Revisions:	Date

**CONSULTANTS:**  
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**ARCHITECT/ENGINEERS:**  
**M HEG**  
ARCHITECTURE



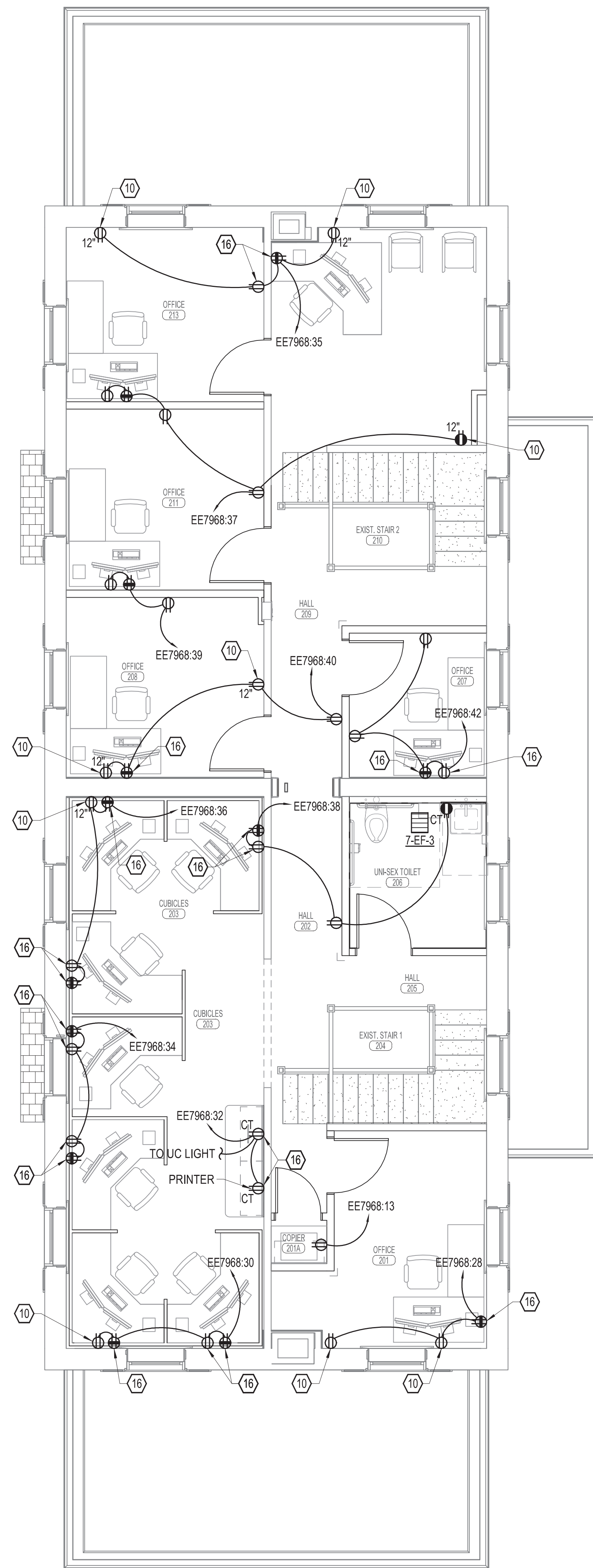
**Drawing Title**  
**ELECTRICAL POWER PLANS**  
Approved: Project Director

**Project Title**  
RENOVATE AND MODERNIZE VENTILATION SYSTEMS BLDG. 7  
**Contract No.:** VA255-17-D-0080  
**Task Order No.:** 36C25518N1024  
**Obligation No.:** 589-C81081  
**Location**  
Wichita, Kansas  
**Date** 11/19/2018  
**Checked** BMW  
**Drawn** JLW

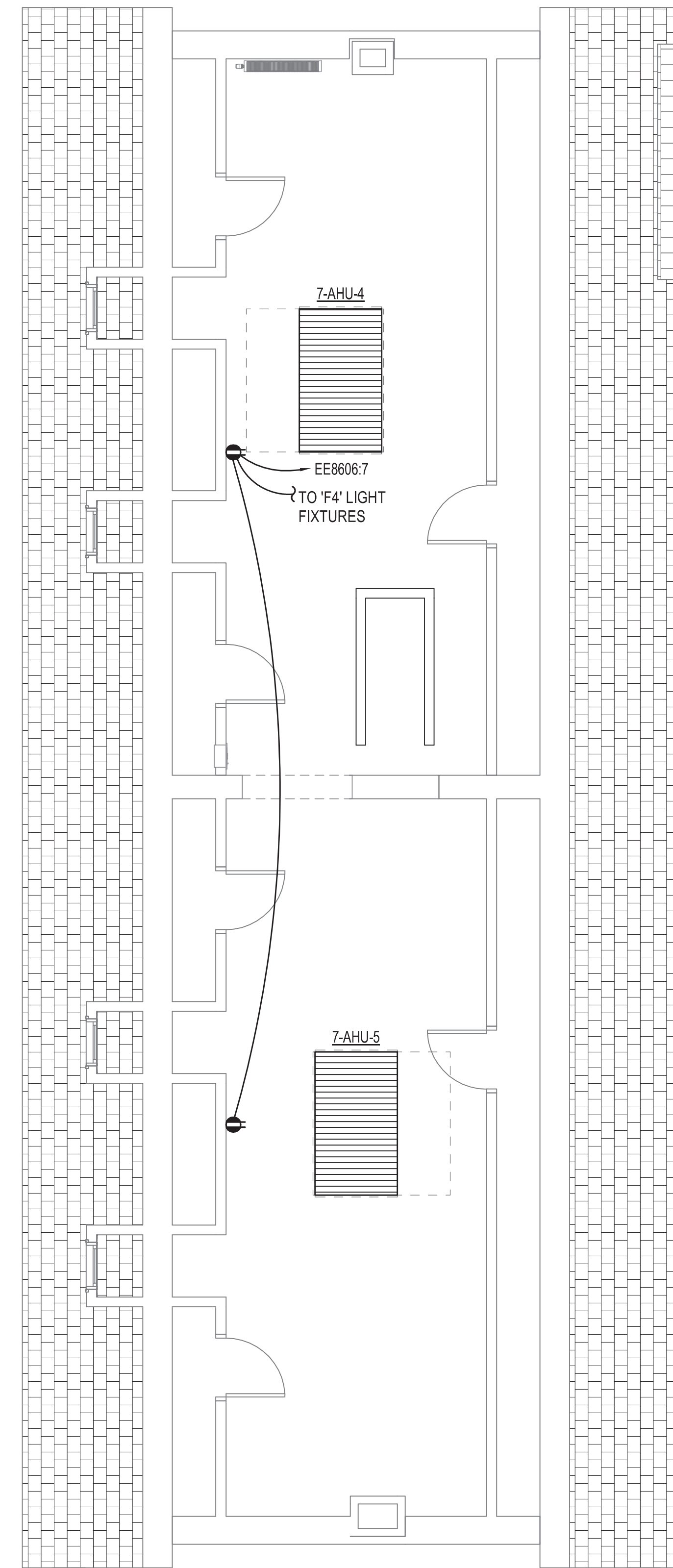
**Project Number** 589A7-18-301  
**Building Number** 7  
**Drawing Number** EP102  
Dwg.

**Office of Construction and Facilities Management**  
Department of Veterans Affairs





**(A)** ELECTRICAL SECOND FLOOR POWER PLAN - BID ITEM 5  
1/4" = 1'-0"



**(B)** ELECTRICAL ATTIC POWER PLAN - BID ITEM 5  
1/4" = 1'-0"

**POWER PLAN NOTES:**

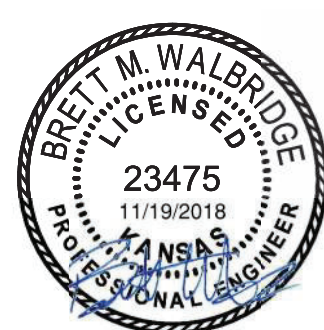
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- A GROUND CONDUCTOR SIZED PER N.E.C. ARTICLE 250 IS REQUIRED IN ALL CONDUITS.
- FOR CONNECTION REQUIREMENTS TO MECHANICAL UNITS, SEE MECHANICAL EQUIPMENT CONNECTION SCHEDULE.
- ALL PENETRATIONS IN THE RATED WALLS AND CEILINGS SHALL BE SEALED WITH A MATERIAL CAPABLE OF PREVENTING THE PASSAGE OF FLAMES AND HOT GASSES. THE SEALANT SHALL HAVE A T-RATING OF ONE HOUR.
- ALL PIPING, CONDUIT, AND OUTLET BOXES (ELECTRIC, TELEPHONE, COMPUTER, ETC.) IN THE RATED WALLS OR CEILING SHALL BE CONSTRUCTED OF NON-COMBUSTIBLE MATERIAL.
- OUTLET BOXES (ELECTRIC, TELEPHONE, COMPUTER, ETC.) SHALL BE LIMITED TO TWO OUTLET BOXES PER STUD SPACE. OUTLET BOXES ON OPPOSITE SIDES OF THE RATED WALLS SHALL BE SEPARATED BY A HORIZONTAL DISTANCE OF 24 INCHES.
- FIELD VERIFY THE EXACT LOCATION OF ALL FLOOR BOXES AND POKE-THROUGHS WITH ARCHITECT PRIOR TO ROUGH-IN.
- PROVIDE ALL ISOLATED GROUND CIRCUITS WITH INDIVIDUAL NEUTRAL CONDUCTORS AND EQUIPMENT GROUND CONDUCTORS.

**(#)** KEYED NOTES:

- INSTALL DEVICE IN EXISTING OUTLET BOX. CONTRACTOR HAS OPTION TO UTILIZE EXISTING CONDUIT OR PATHWAY FOR ROUTING OF NEW CABLING/CIRCUITING AS INDICATED.
- DEVICE SHALL BE INSTALLED SURFACE MOUNTED AT 12" AFF WITH SURFACE MOUNTED CONDUIT. STUB CONDUIT AND CABLING UP FROM FLOOR CAVITY BELOW IN ORDER TO MINIMIZE THE LENGTH OF SURFACE MOUNTED CONDUIT.

Revisions:	Date

**CONSULTANTS:**  
--



**ARCHITECT/ENGINEERS:**



Drawing Title  
**ELECTRICAL POWER PLANS - BID ITEM 5**

Approved: Project Director

Project Title  
**RENOVATE AND MODERNIZE VENTILATION SYSTEMS BLDG. 7**  
Contract No.: VA255-17-D-0080  
Task Order No.: 36C25518M1024  
Obligation No.: 589-C81081

Location  
**Wichita, Kansas**  
Date: 11/19/2018  
Checked: BMW  
Drawn: JLW

Project Number: 589A7-18-301  
Building Number: 7  
Drawing Number: **EP102.5**  
Dwg.

Office of Construction and Facilities Management  
Department of Veterans Affairs

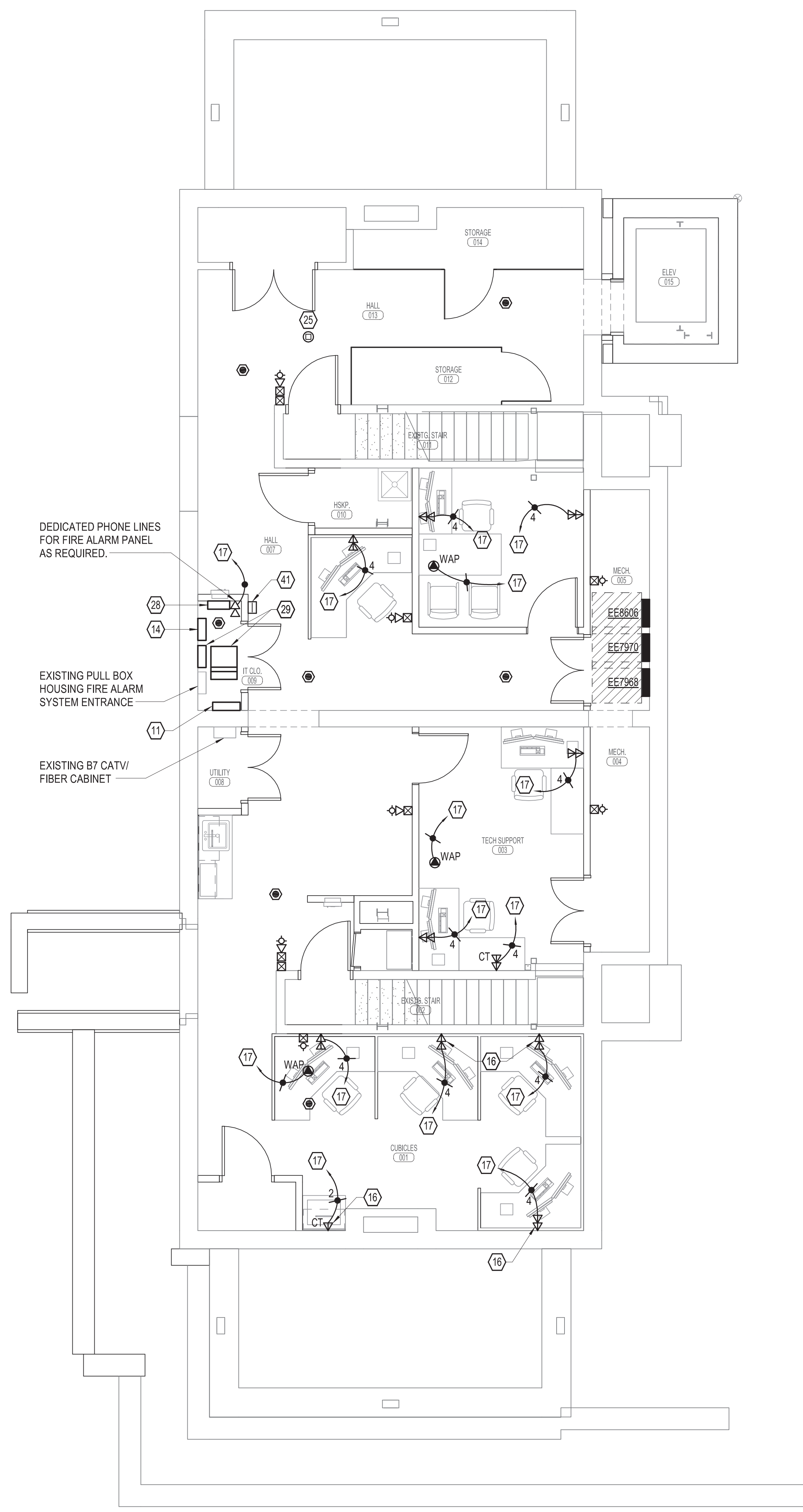


**SYSTEMS PLAN NOTES:**

- ALL PENETRATIONS IN THE RATED WALLS AND CEILINGS SHALL BE SEALED WITH A MATERIAL CAPABLE OF PREVENTING THE PASSAGE OF FLAMES AND HOT GASSES. THE SEALANT SHALL HAVE A T-RATING OF ONE HOUR.
- ALL PIPING, CONDUIT, AND OUTLET BOXES (ELECTRIC, TELEPHONE, COMPUTER, ETC.) IN THE RATED WALLS OR CEILING SHALL BE CONSTRUCTED OF NON-COMBUSTIBLE MATERIAL.
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- WHERE THE SAME DEVICE IS SHOWN IN THE SAME LOCATION ON BOTH THE POWER AND SYSTEMS PLAN, ONLY ONE DEVICE IS REQUIRED. PROVIDE BOTH POWER AND SYSTEMS WIRING AS SHOWN.
- THE FIRE ALARM SYSTEM SHOWN HAS BEEN DESIGNED PER THE REQUIREMENTS OF NFPA 72. DEVICES SHOWN INDICATE THE DESIGN INTENT AND SHALL BE THE MINIMUM PROVIDED. SYSTEM SUPPLIER SHALL PROVIDE ANY ADDITIONAL CODE REQUIRED DEVICES OR DEVICES REQUIRED BY THE AUTHORITY HAVING JURISDICTION.

**# KEYED NOTES:**

- INSTALL DEVICE IN EXISTING OUTLET BOX. CONTRACTOR HAS OPTION TO UTILIZE EXISTING CONDUIT OR PATHWAY FOR ROUTING OF NEW CABLING/CIRCUITING AS INDICATED.
- RELOCATED SANDIFER SECURITY AND ACCESS CONTROL COMPONENTS. RE-ROUTE ALL EXISTING CONDUIT AND CABLING AS REQUIRED TO NEW EQUIPMENT LOCATION.
- RELOCATED ADVANTOR SECURITY PANEL, CORNING FIBER OPTIC PANEL, AND ASSOCIATED COMPONENTS. RE-ROUTE ALL EXISTING CONDUIT AND CABLING AS REQUIRED TO NEW PANEL LOCATIONS.
- DEVICE SHALL BE INSTALLED SURFACE MOUNTED AT 12" AFF WITH SURFACE MOUNTED CONDUIT, STUB CONDUIT AND CABLING UP FROM FLOOR CAVITY BELOW IN ORDER TO MINIMIZE THE LENGTH OF SURFACE MOUNTED CONDUIT.
- ROUTE CAT 6 VOICE/DATA CABLE(S) TO PATCH PANEL LOCATED IN LOWER LEVEL IT CLOSET 009. COORDINATE WITH COR AND OIT STAFF FOR ACCESS TO TELECOM CLOSET AND PATCH PANEL TERMINATIONS.
- RELOCATED CEILING MOUNTED SPEAKER. INSTALL IN NEW CEILING AS REQUIRED AND CONNECT TO EXISTING SPEAKER CIRCUIT.
- CONNECT TO NEAREST EXISTING SPEAKER CIRCUIT. EXTEND AND RE-ROUTE EXISTING CABLING AS REQUIRED.
- RELOCATED FIRE ALARM PANEL AND ASSOCIATED COMPONENTS. RE-ROUTE ALL EXISTING CABLING AS REQUIRED TO NEW EQUIPMENT LOCATION.
- RELOCATED TELECOMMUNICATIONS RACK, PATCH PANELS AND ALL ASSOCIATED COMPONENTS. RE-ROUTE ALL EXISTING CABLING AND EQUIPMENT AS REQUIRED TO NEW RACK LOCATION. COORDINATE WITH COR AND OIT STAFF FOR TERMINATION OF CABLING AND EQUIPMENT LOCATION WITHIN RACK.
- ROUTE CATV CABLING TO EXISTING B7 CATV CABINET LOCATED IN BASEMENT UTILITY ROOM 008. PROVIDE ADDITIONAL SPLITTER AS REQUIRED.
- RELOCATED ACCESS CONTROL DEVICE. CONNECT TO EXISTING ACCESS CONTROLS CIRCUIT AS REQUIRED.

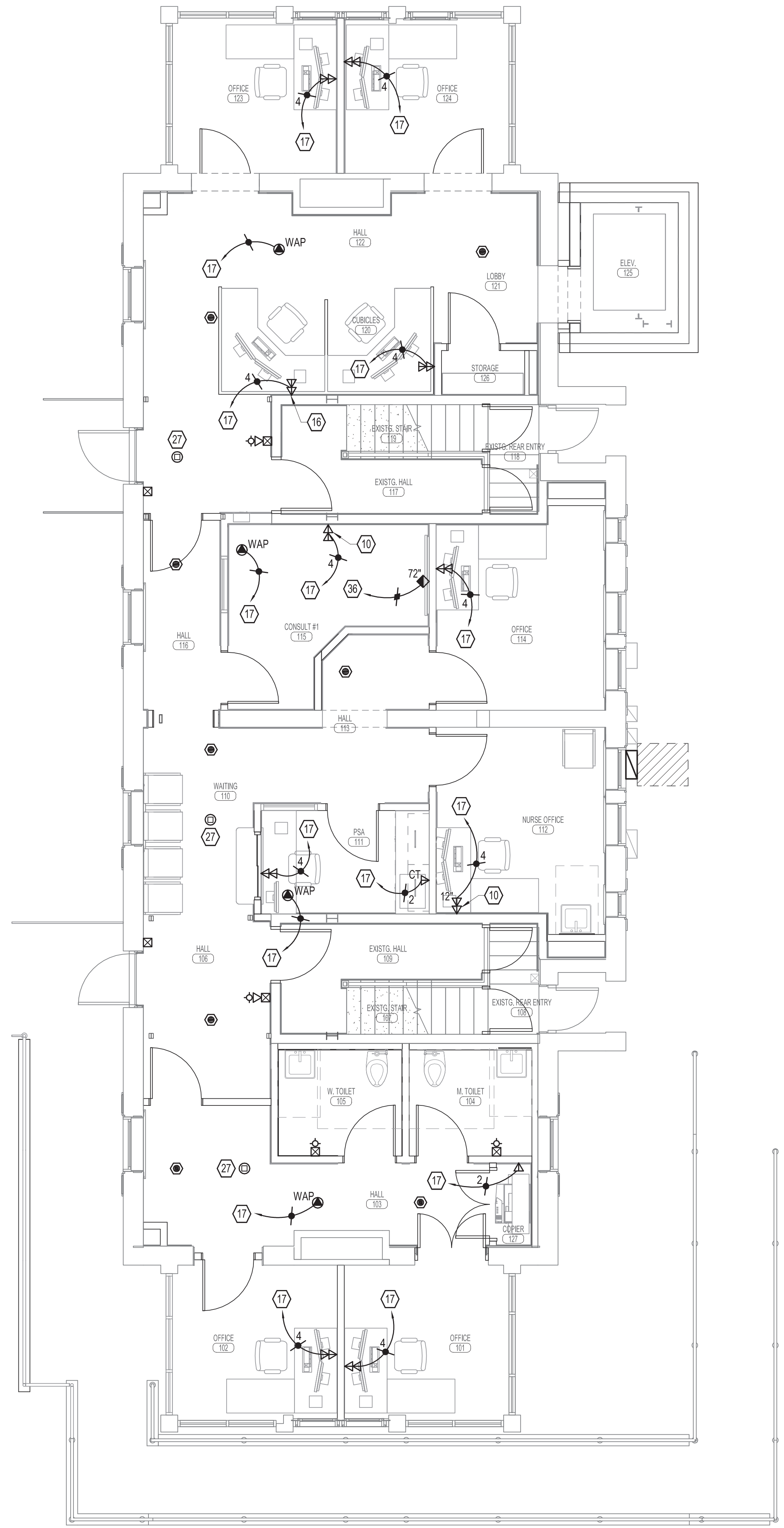


DEDICATED PHONE LINES FOR FIRE ALARM PANEL AS REQUIRED.

EXISTING PULL BOX HOUSING FIRE ALARM SYSTEM ENTRANCE

EXISTING B7 CATV/FIBER CABINET

**A ELECTRICAL BASE SYSTEMS PLAN**  
1/4" = 1'-0"

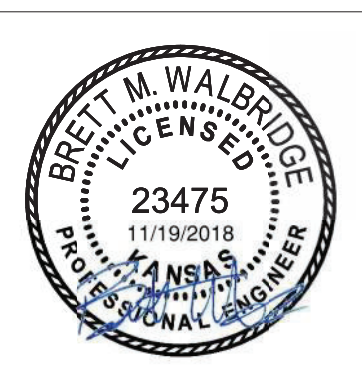


**B ELECTRICAL FIRST FLOOR SYSTEMS PLAN**  
1/4" = 1'-0"

Revisions:	Date

**CONSULTANTS:**

--



**ARCHITECT/ENGINEERS:**

**M HEG**  
ARCHITECTURE



**Drawing Title**  
**ELECTRICAL SYSTEMS PLANS**

Approved: Project Director

**Project Title**  
RENOVATE AND MODERNIZE VENTILATION SYSTEMS BLDG. 7

**Contract No.:** VA255-17-D-0080  
**Task Order No.:** 36C25518N1024  
**Obligation No.:** 589-C81081

**Location**  
Wichita, Kansas

Date: 11/19/2018  
Checked: BMW  
Drawn: JLW

**Project Number**  
589A7-18-301

**Building Number**  
7

**Drawing Number**  
**EY101**

Dwg.

**Office of Construction and Facilities Management**

**Department of Veterans Affairs**

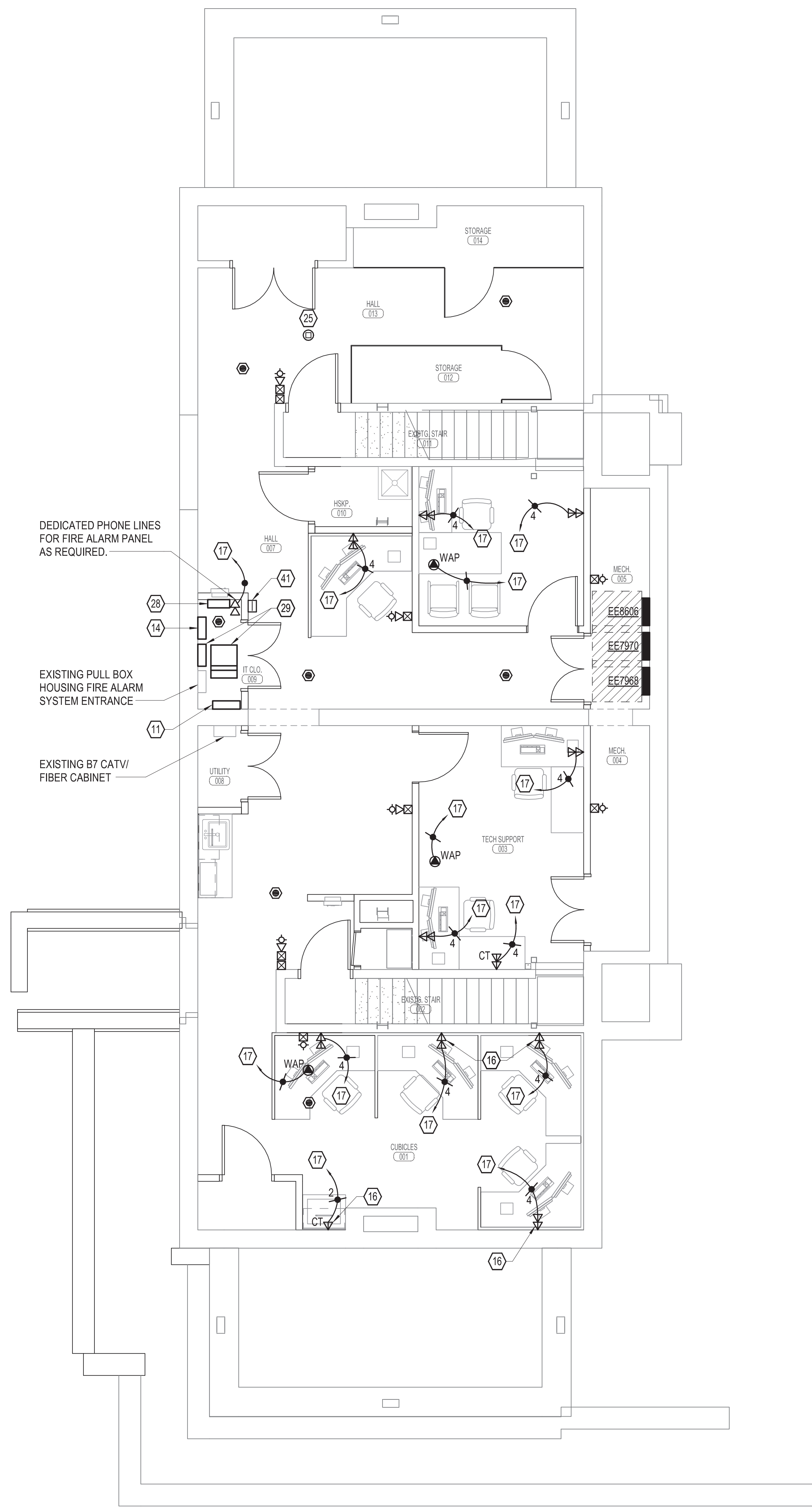


**SYSTEMS PLAN NOTES:**

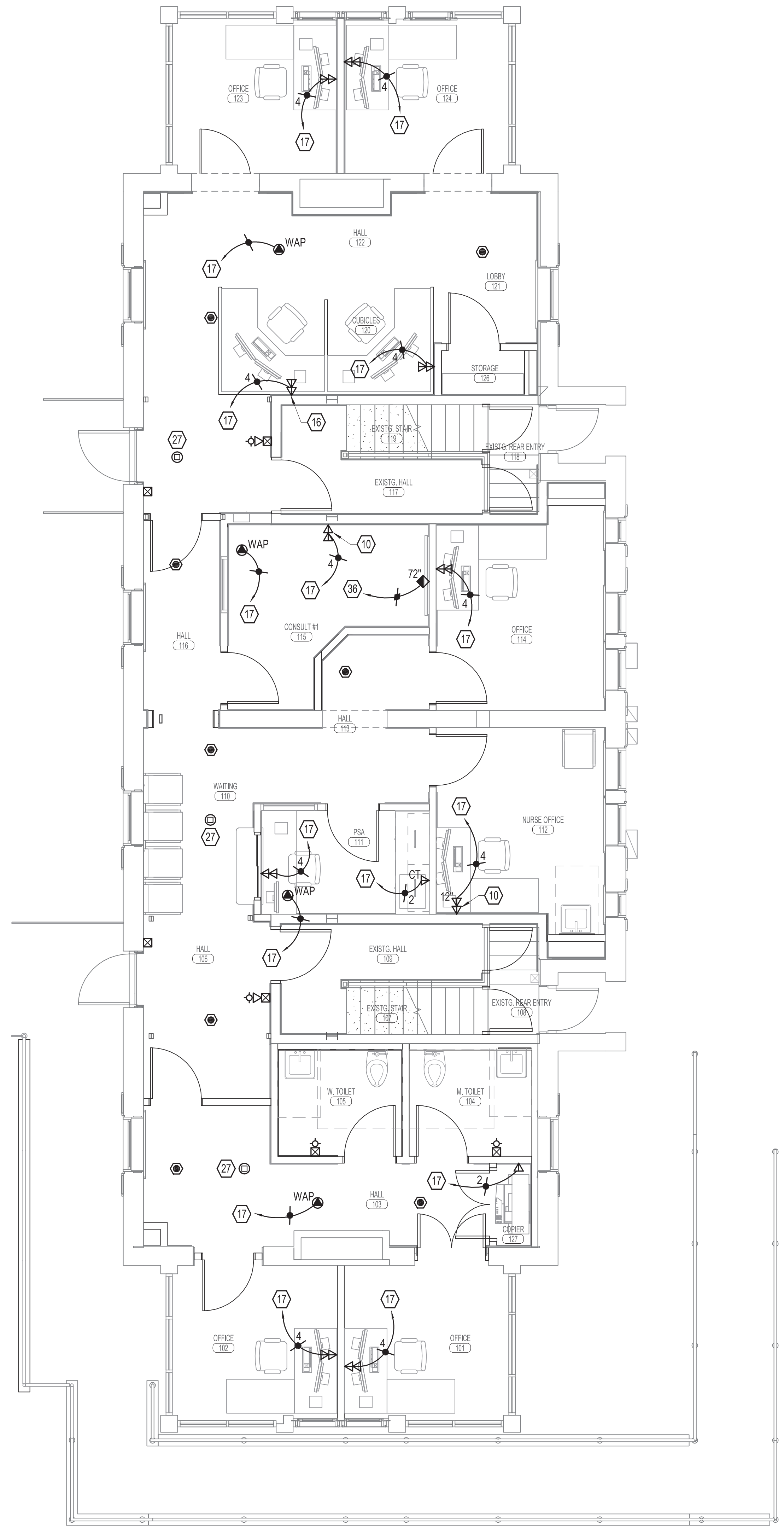
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- ALL PIPING, CONDUIT, AND OUTLET BOXES (ELECTRIC, TELEPHONE, COMPUTER, ETC.) IN THE RATED WALLS OR CEILING SHALL BE CONSTRUCTED OF NON-COMBUSTIBLE MATERIAL.
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- THE FIRE ALARM SYSTEM SHOWN HAS BEEN DESIGNED PER THE REQUIREMENTS OF NFPA 72. DEVICES SHOWN INDICATE THE DESIGN INTENT AND SHALL BE THE MINIMUM PROVIDED. SYSTEM SUPPLIER SHALL PROVIDE ANY ADDITIONAL CODE REQUIRED DEVICES OR DEVICES REQUIRED BY THE AUTHORITY HAVING JURISDICTION.

**# KEYED NOTES:**

- INSTALL DEVICE IN EXISTING OUTLET BOX. CONTRACTOR HAS OPTION TO UTILIZE EXISTING CONDUIT OR PATHWAY FOR ROUTING OF NEW CABLING/CIRCUITING AS INDICATED.
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- ROUTE CATV CABLING TO EXISTING BT CATV CABINET LOCATED IN BASEMENT UTILITY ROOM 008. PROVIDE ADDITIONAL SPLITTER AS REQUIRED.
- RELOCATED ACCESS CONTROL DEVICE. CONNECT TO EXISTING ACCESS CONTROLS CIRCUIT AS REQUIRED.



**A ELECTRICAL BASEMENT SYSTEMS PLAN - BID ITEM 5**  
1/4" = 1'-0"  
1/4" = 1'-0"

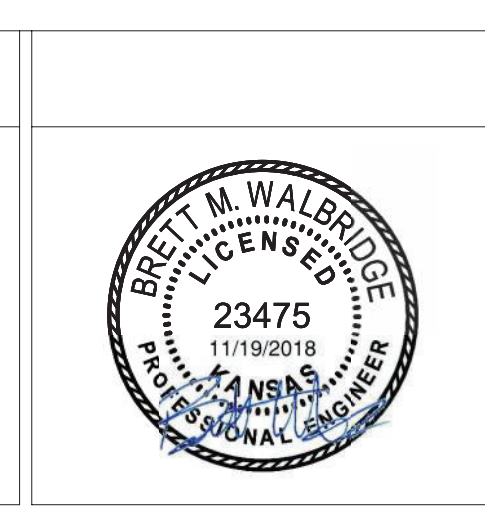


**B ELECTRICAL FIRST FLOOR SYSTEMS PLAN - BID ITEM 5**  
1/4" = 1'-0"  
1/4" = 1'-0"

Revisions:	Date

**CONSULTANTS:**

--



**ARCHITECT/ENGINEERS:**

**M HEG**  
ARCHITECTURE



Drawing Title  
**ELECTRICAL SYSTEMS PLANS - BID ITEM 5**

Approved: Project Director

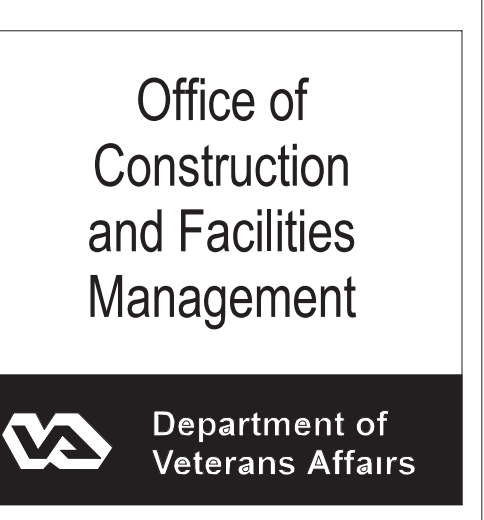
Project Title  
**RENOVATE AND MODERNIZE VENTILATION SYSTEMS BLDG. 7**

Contract No.: VA255-17-D-0080  
Task Order No.: 36C25518N1024  
Obligation No.: 589-C81081

Location  
**Wichita, Kansas**

Date: 11/19/2018  
Checked: BMW  
Drawn: JLW

Project Number: 589A7-18-301  
Building Number: 7  
Drawing Number: **EY101.5**  
Dwg.



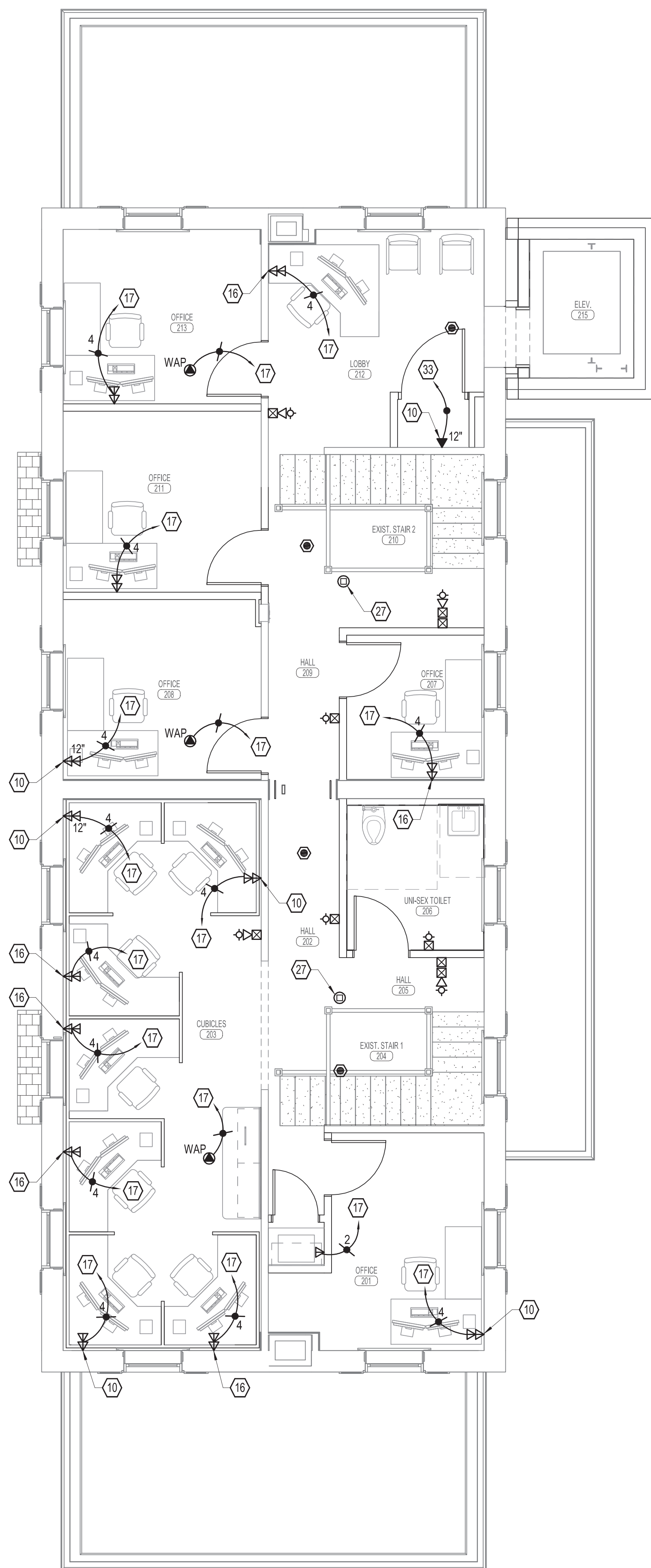


**SYSTEMS PLAN NOTES:**

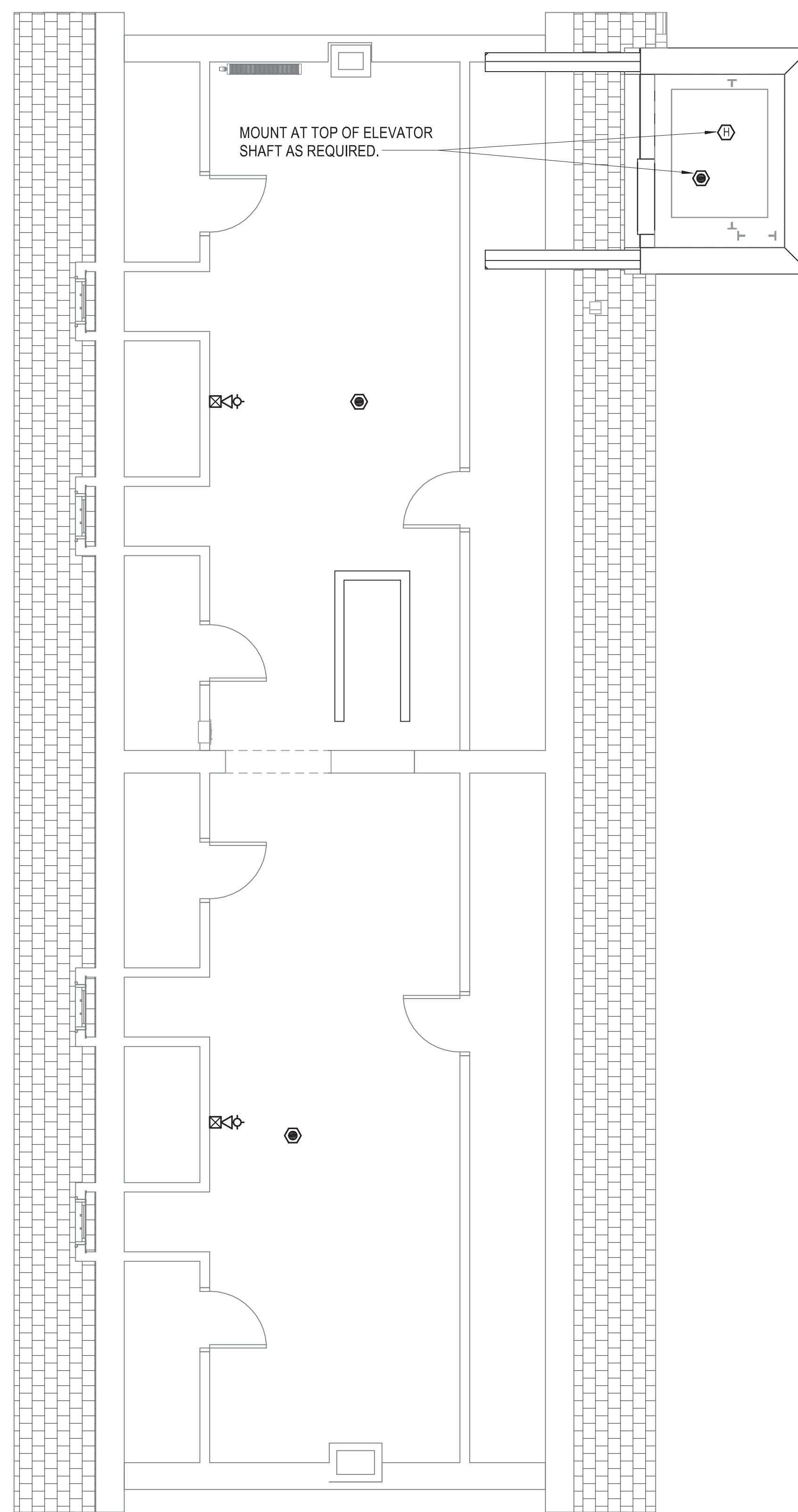
1. ALL PENETRATIONS IN THE RATED WALLS AND CEILINGS SHALL BE SEALED WITH A MATERIAL CAPABLE OF PREVENTING THE PASSAGE OF FLAMES AND HOT GASSES. THE SEALANT SHALL HAVE A T-RATING OF ONE HOUR.
2. ALL PIPING, CONDUIT, AND OUTLET BOXES (ELECTRIC, TELEPHONE, COMPUTER, ETC.) IN THE RATED WALLS OR CEILING SHALL BE CONSTRUCTED OF NON-COMBUSTIBLE MATERIAL.
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**# KEYED NOTES:**

- 10 INSTALL DEVICE IN EXISTING OUTLET BOX. CONTRACTOR HAS OPTION TO UTILIZE EXISTING CONDUIT OR PATHWAY FOR ROUTING OF NEW CABLING/CIRCUITING AS INDICATED.
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- 27 CONNECT TO NEAREST EXISTING SPEAKER CIRCUIT. EXTEND AND RE-ROUTE EXISTING CABLING AS REQUIRED.
- 33 PROVIDE CONNECTION AS REQUIRED FOR ELEVATOR CAB COMMUNICATIONS SYSTEM. PROVIDE 1" CONDUIT TO I.T. CLOSET 009 FOR ELEVATOR CAB COMMUNICATIONS CABLING. COORDINATE WITH COR AND OIT STAFF FOR COMMUNICATIONS CABLING TERMINATIONS.



**A ELECTRICAL SECOND FLOOR SYSTEMS PLAN**  
1/4" = 1'-0"

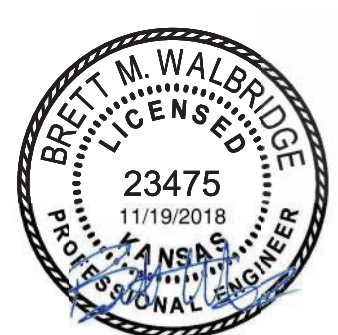


**B ELECTRICAL ATTIC SYSTEMS PLAN**  
1/4" = 1'-0"

Revisions:	Date

**CONSULTANTS:**

--



**ARCHITECT/ENGINEERS:**



Drawing Title	<b>ELECTRICAL SYSTEMS PLANS</b>
Approved: Project Director	

Project Title	RENOVATE AND MODERNIZE VENTILATION SYSTEMS BLDG. 7
Contract No.:	VA255-17-D-0080
Task Order No.:	36C25518N1024
Obligation No.:	589-C81081
Location	Wichita, Kansas
Date	11/19/2018
Checked	BMW
Drawn	JLW

Project Number	589A7-18-301
Building Number	7
Drawing Number	<b>EY102</b>
Dwg.	

Office of Construction and Facilities Management  
Department of Veterans Affairs

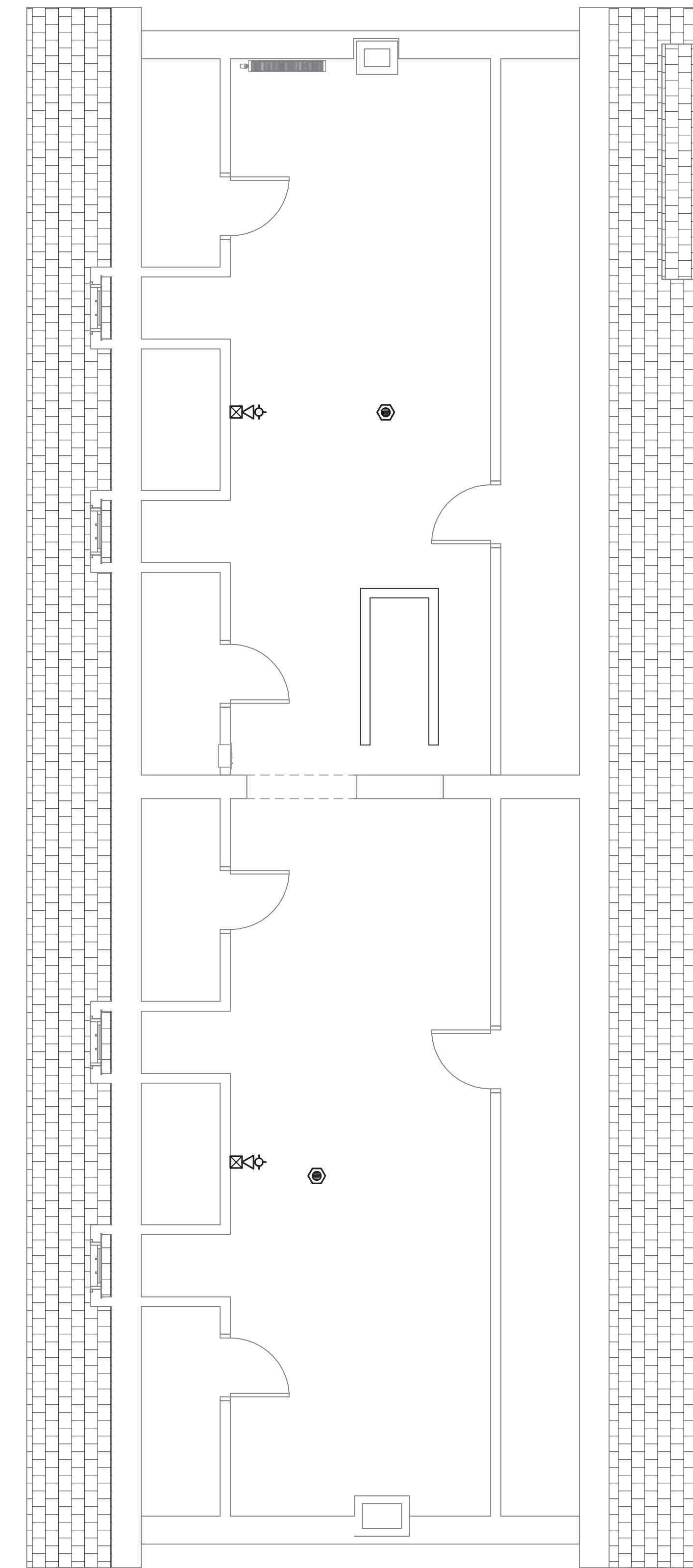
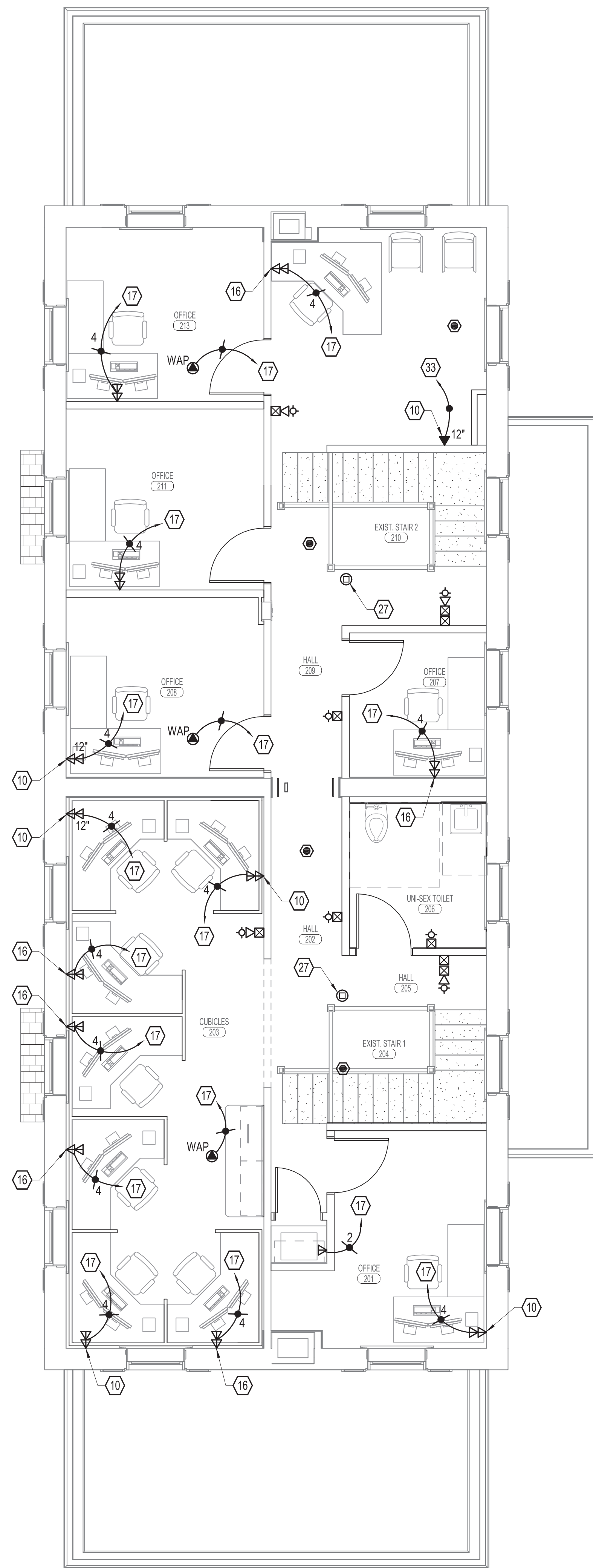


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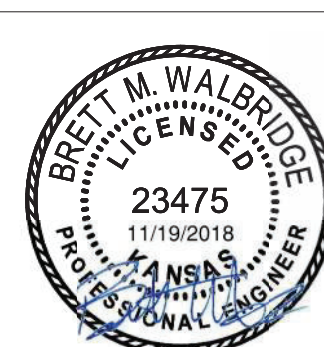


**A** ELECTRICAL SECOND FLOOR SYSTEMS PLAN - BID ITEM 5  
1/4" = 1'-0"

**B** ELECTRICAL ATTIC SYSTEMS PLAN - BID ITEM 5  
1/4" = 1'-0"

Revisions:	Date

**CONSULTANTS:**  
--



**ARCHITECT/ENGINEERS:**  
**MEG**  
ARCHITECTURE



**Drawing Title**  
**ELECTRICAL SYSTEMS PLANS - BID ITEM 5**  
Approved: Project Director

**Project Title**  
RENOVATE AND MODERNIZE VENTILATION SYSTEMS BLDG. 7  
**Contract No.:** VA255-17-D-0080  
**Task Order No.:** 36C25518M1024  
**Obligation No.:** 589-C81081  
**Location**  
Wichita, Kansas  
**Date** 11/19/2018  
**Checked** BMW  
**Drawn** JLW

**Project Number** 589A7-18-301  
**Building Number** 7  
**Drawing Number** **EY102.5**  
Dwg.

Office of Construction and Facilities Management  
Department of Veterans Affairs