

LIGHTING FIXTURE SCHEDULE						
SYMBOL	MANUFACTURER & CATALOG NUMBER	MOUNTING TYPE	DESCRIPTION	LAMP	REMARKS	
A	LITHONIA - #STAKS 2X4 AL06 SWW7 UVOLT	RECESSED	2X4 LED TROFFER	LED	(COLOR SET TO 3500K, LUMENS SET TO 3000LM)	
B	LITHONIA - #STAKS 2X2 AL03 SWW7 UVOLT	RECESSED	2X2 LED TROFFER	LED	(COLOR SET TO 3500K, LUMENS SET TO 3000LM)	
C	(SELECTION BY OWNER)	PENDANT	GLOBE CHANDELIER	LED		
D	LITHONIA - #CSS L48 AL03 MVOLT SWW3 90CRI	SURFACE	4 LED STRIP LIGHT	LED		
E	COMPASS - #CORG	UNIVERSAL	LED EXIT SIGN	LED		

GENERAL LIGHTING FIXTURE SCHEDULE NOTES:

- PROVIDE CORRECT TRIM FOR ALL FIXTURES INSTALLED IN A HARD CEILING OR SPECIALTY CEILING TYPE.
- PROVIDE ALL APPROPRIATE MOUNTING HARDWARE. PROVIDE BACKMOUNTING BOXES AS RECOMMENDED BY MANUFACTURER.
- COORDINATE LOCATION OF ALL EXIT SIGNS IN THE FIELD WITH OWNER SUPPLIED EQUIPMENT. BULK HEADS AND SIGNAGE TO ENSURE VISIBILITY FROM AT LEAST HALF WAY TO NEXT SIGN OR TO THE EXIT.
- PROVIDE DOUBLE OR SINGLE FACE EXIT SIGNS AS INDICATED ON THE DRAWINGS. PROVIDE ARROWS AS INDICATED.
- ALL FIXTURE FINISHES AND DECORATIVE DETAILS SHALL BE SELECTED BY THE ARCHITECT PRIOR TO FINAL ORDER. COLORS SHALL BE SELECTED FROM FULL COLOR LINE (BOTH STANDARD, CUSTOM, AND PREMIUM).
- FIXTURES INDICATED ARE THE BASIS OF DESIGN. ALL EQUALS SHALL HAVE THE SAME PERFORMANCE AND GENERAL SHAPE AND OPTIONS. ALL EQUALS ARE TO BE APPROVED BY THE ARCHITECT AND ENGINEER PRIOR TO ORDERING.
- ALL FIXTURES CONNECTED TO A DIMMER OR LIGHTING CONTROL SYSTEM SHALL HAVE DRIVER THAT COORDINATES WITH CONTROLLER. COORDINATE BEFORE ORDERING.

GENERAL NOTES:

- CONTRACTOR SHALL PROVIDE BRANCH CIRCUIT WIRING TO ALL ITEMS WHICH REQUIRE ELECTRICAL CONNECTIONS. WHERE BRANCH CIRCUIT WIRING IS NOT SHOWN, CONTRACTOR SHALL CONNECT ITEMS TO THE CIRCUITS INDICATED. EXACT ROUTING OF CONDUITS AND WIRING SHALL BE DETERMINED BY THE CONTRACTOR IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND SPECIFICATIONS.
- CONTRACTOR SHALL USE ONLY THOSE WIRING METHODS ALLOWED IN THE SPECIFICATIONS.
- A MAXIMUM OF 3 CIRCUITS SHALL BE RUN IN ONE CONDUIT. CIRCUITS MUST BE ON SEPARATE PHASES. CIRCUITS SHALL NOT SHARE A COMMON NEUTRAL.
- MINIMUM WIRE SIZE SHALL BE #12AWG. MINIMUM CONDUIT SIZE SHALL BE 3/4".
- THE ELECTRICAL CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS AT THE SITE.
- ALLOW CLEAR SPACE IN FRONT OF ALL PANELBOARDS, SWITCHBOARDS, ELECTRICAL EQUIPMENT, ETC., AS REQUIRED BY NEC.
- COORDINATE EXACT LOCATION OF LIGHTING FIXTURES WITH HVAC DUCTWORK, PIPING AND EQUIPMENT.
- ALL LIGHTING FIXTURES TO BE COMPATIBLE WITH THE CEILING CONSTRUCTION.
- ELECTRICAL CONTRACTOR TO SUPPLY ALL GROUNDING & BONDING REQUIREMENTS PER NEC.
- SEE FIRE PROTECTION SIGNALING SYSTEM RISER DIAGRAM NOTES AND SPECIFICATIONS FOR INFORMATION ON DUCT DETECTORS AND SMOKE DAMPERS. SEE SPECIFICATIONS FOR ITEMS NEEDING ADDRESSABLE CONNECTIONS WITH SUPERVISED INTERFACE. THESE ITEMS MAY NOT BE QUANTIFIED ON THE ELECTRICAL DRAWINGS, BUT SHALL BE COORDINATED WITH ALL OTHER TRADES AND DRAWINGS. CONTRACTOR TO ACCOUNT FOR VOLTAGE DROP WHERE LONG RUNS ARE TO BE PROVIDED.
- ELECTRICAL CONTRACTOR TO PROVIDE ALL CUTTING AND PATCHING IN EXISTING BUILDING RELATED TO THE NEW ELECTRICAL WORK.
- ELECTRICAL CONTRACTOR SHALL UNCONDITIONALLY GUARANTEE IN WRITING ALL MATERIALS EQUIPMENT AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM DATE OF ACCEPTANCE BY OWNER.
- THE ELECTRICAL CONTRACTOR SHALL SUBMIT TO THE ARCHITECT & ENGINEER AS-BUILT DRAWINGS AND OPERATION AND MAINTENANCE MANUALS INCLUDING ALL NAMEPLATE DATA, WIRING DIAGRAMS, MAINTENANCE INSTRUCTIONS AND PARTS LIST UPON PROJECT COMPLETION.
- ELECTRICAL CONTRACTOR SHALL MAINTAIN A CLEAN AND SAFE WORK AREA AT ALL TIMES. ALL SAFETY PROCEDURES AND ENFORCEMENT IS THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL CONFORM TO ALL OSHA STANDARDS.
- THESE DRAWINGS AND SPECIFICATIONS ARE NOT INTENDED TO SHOW THE LOCATION OF EVERY WIRE, CONDUIT, FITTING, ETC., BUT IS UNDERSTOOD THAT THE CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIALS AND LABOR FOR COMPLETE WORKABLE SYSTEMS UNLESS NOTED OTHERWISE IN THIS SPECIFICATION OR ON THE DRAWINGS.
- THE CONTRACTOR SHALL PROVIDE BUT NOT BE LIMITED TO:
 - COMPLETE SYSTEM OF WIRING FOR EMERGENCY LIGHTING, LIGHT AND POWER, PLUMBING, HVAC EQUIPMENT, FIRE ALARM ALONG WITH TELEPHONE AND DATA EQUIPMENT INSTALLATION.
 - ALL PANELS, SWITCHBOARDS, MOTOR CONTROLLERS, TRANSFORMERS, DISCONNECTS, RECEPTACLES, SWITCHES, OUTLETS AND PLATES FOR SAME, FEEDERS FROM PANELS AND RELATED APPURTENANCES.

GENERAL ELECTRICAL DEMOLITION NOTES:

- DEMOLITION OF ALL EXISTING ELECTRICAL EQUIPMENT AND ASSOCIATED PIPING SHALL BE COORDINATED WITH NEW WORK INSTALLATION.
- THIS CONTRACTOR WILL BE HELD RESPONSIBLE FOR ANY/DAMAGES TO EXISTING FLOORS, FLOOR TILES, WALLS, CEILING, FURNISHINGS, ETC. DUE TO THE REMOVAL PROCESS OF ELECTRICAL EQUIPMENT AND ALL ASSOCIATED ITEMS.
- ALL MATERIAL AND EQUIPMENT REMOVED SHALL BE PROPERLY DISPOSED OF BY THE CONTRACTOR.
- CONTRACTOR SHALL REMOVE ALL EXISTING LIGHTING FIXTURES WHERE NEW FIXTURES ARE SHOWN. THIS SHALL INCLUDE FITTINGS, SUPPORT DEVICES, ETC AND MAKE PROVISIONS TO EXISTING CEILING SO THAT THE NEW FIXTURE MAY BE PROPERLY INSTALLED.
- MAINTAIN CONTINUITY OF ALL EXISTING CIRCUITS REMAINING IN OTHER AREAS.
- ALL EXISTING CONDUITS AND WIRING NOT BEING USED SHALL BE REMOVED BACK TO SOURCE.
- WHERE MODIFICATIONS OR ADDITIONS TO EXISTING WORK IS TO BE DONE BY ANOTHER CONTRACTOR, EXISTING EQUIPMENT, CONDUIT, DEVICES, SUPPORTS, AND APPURTENANCES SHALL BE REMOVED AND REINSTALLED TO ACCOMMODATE MODIFICATIONS OR ADDITIONS. THIS SHALL INCLUDE THE ADDITION OF DOORS, WALLS, STRUCTURAL SUPPORTS, UNITS, ETC. COORDINATE WITH OTHER CONTRACTORS IN THE FIELD PRIOR TO WORK COMMENCING. WHERE THE QUANTITY OF WORK CANNOT BE DETERMINED PRIOR TO BID DUE TO CONCEALED CONDITIONS, PROVIDE \$5,000 ALLOWANCE.
- DEVICES SHOWN ARE BASED ON EXISTING DRAWINGS AND SITE SURVEY WHILE BUILDING WAS IN OPERATION. ACTUAL LOCATIONS AND QUANTITIES MAY VARY. VERIFY IN THE FIELD.
- ALL DORMANT CABLING AND WIRING SHALL BE REMOVED UNLESS NOTED AS FOR FUTURE OR AS INSTRUCTED OTHERWISE BY OWNER.
- COORDINATE THE REMOVAL OF THE POWER CONNECTIONS TO ALL MECHANICAL EQUIPMENT TO BE REMOVED WITH THE MECHANICAL CONTRACTOR.
- ALL CIRCUIT BREAKERS WHERE THE LOAD SERVING HAS BEEN REMOVED SHALL BE MARKED AS SPARE.
- ALL PANELBOARDS MODIFIED UNDER THE WORK SHALL RECEIVED REVISED, TYPED PANEL SCHEDULES AS PROVIDED WITH ALL NEW PANELBOARDS.
- REPLACE ANY DAMAGED EXISTING TO REMAIN ELECTRICAL, LIGHTING, AND LOW VOLTAGE EQUIPMENT IN KIND.
- EXTEND WIRING IN KIND FOR DEVICES TO BE REINSTALLED IN NEW CEILING AS NECESSARY.
- ALL SURFACE MOUNTED DEVICES SHALL BE INSTALLED IN 1 OR 3 SECTION SURFACE MOUNTED RACEWAY AS REQUIRED TO ACCOMMODATE BOTH LOW VOLTAGE AND LINE VOLTAGE CABLES IN THE SAME RACEWAY. REFER TO SURFACE MOUNTING DETAIL FOR MORE INFORMATION.
- VERIFY IF BUILDING HAS PLENUM RETURN. IF A PLENUM RETURN EXISTS, PROVIDE ALL EXPOSED CABLING INSTALLED WITHIN PLENUM AS PLENUM RATED CABLE.

CONTROL EQUIPMENT	
	MANUAL MOTOR STARTER - OVERLOADS SIZED TO ACCOMMODATE MOTOR - 4'-0" AFF UNLESS OTHERWISE NOTED
	COMBINATION MOTOR STARTER - TYPE/SIZE/NEEMA ENCLOSURE AS INDICATED - MOUNT 4'-6" AFF TO CENTERLINE OF OPERATING HANDLE PROVIDE OVERCURRENT AND OVERLOADS IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS FOR MOTOR HP
	MOTOR - HORSEPOWER AS INDICATED
	DISCONNECT SWITCH - AMPS/POLES/FUSES/NEEMA ENCLOSURE AS INDICATED - MOUNT 4'-6" AFF TO CENTERLINE OF OPERATING HANDLE
	TRANSFORMER

STANDARD MOUNTING HEIGHTS	
9" BELOW FINISHED CEILING	WALL-MOUNTED CLOCKS, PROGRAM BELLS, (OR AS SHOWN ON ARCHITECTURAL DETAIL.)
6" ABOVE DOOR	NURSE CALL DOME LIGHT
6" ABOVE FIRE HOUSE CABINET	RED SIGNAL LIGHT
10'-0"	BATTERY LIGHTING UNITS AND REMOTE WALL MOUNTED LIGHT HEADS (OR 1'-0" BELOW FINISHED CEILING OF TOP UNIT).
8'-6"	PENDANT-HUNG INDUSTRIAL AND STRIP LIGHTING FIXTURES.
7'-6"+	TELEVISION OUTLET AND SERVICE RECEPTACLE-FOR SHELF MOUNTED T.V. IN BEDROOMS.
7'-6"	OR 6" BELOW FINISHED CEILING, WHICHEVER IS LOWER.
CENTER ABOVE DOOR OR WINDOW OPENING	WARNING AND SIGNALING FIXTURES/SIGNS.
6'-8"	OR 6" BELOW FINISHED CEILING WHICHEVER IS LOWER. FIRE ALARM SIGNAL DEVICES AND ILLUMINATED FIRE SIGNALS.
6'-6"	TOP OF FLUSH AND SURFACE MOUNTED ELECTRICAL LIGHTING OR POWER PANELBOARDS AND TELEPHONE CABINETS.
6'-3"	TOP OF BACK-MOUNTED WALL EXIT FIXTURES (NOT MOUNTED ABOVE DOORS).
6'-0"	TOP OF HIGHEST ELECTRICAL SAFETY DISCONNECT SWITCHES, MAGNETIC STARTERS, CONTACTORS.
4'-6"	CENTERLINE OF OPERATING HANDLE FOR WALL MOUNTED DISCONNECT SWITCHES AND MOTOR STARTERS. WALL MOUNTED TELEPHONE AND PAY STATIONS (5'-6" AT HANDICAP LOCATIONS VERIFY EXACT HEIGHT PRIOR TO ROUGH IN)
3'-10"	WALL PHONE, ELECTRICAL DEVICE LIGHTING SWITCHES, MANUAL MOTOR STARTERS, SECURITY CARD, AND GPI RECEPTACLES IN TOILET ROOMS OR FOR SEPARATE SINKS NOT IN CASEWORK.
3'-6"	FIRE ALARM PULL STATIONS
2'-0"	ELECTRICAL RECEPTACLES WITHIN MECHANICAL SPACES, ELECTRICAL AND ELEVATOR ROOMS.
1'-6"	ELECTRICAL RECEPTACLES, TELEPHONE OUTLETS, DATA OUTLETS, TELEPHONE/DATA OUTLETS
0"	FINISHED FLOOR

MOUNTING HEIGHT NOTES:

- MOUNTING HEIGHTS TO CENTER OF OUTLETS UNLESS OTHERWISE NOTED. IN MASONRY CONSTRUCTION THE ABOVE MOUNTING HEIGHTS SHALL BE USED FOR REFERENCE TO NEAREST BLOCK OF BRICK COURSE.
- THE ABOVE MOUNTING HEIGHTS SHALL BE ADHERED TO UNLESS SPECIFICALLY NOTED OR DETAILED OTHERWISE ON THE DRAWING OR SPECIFICATIONS.
- A "*" BESIDE A DEVICE INDICATES THAT DEVICE IS MOUNTED ABOVE A COUNTER OR CASEWORK. COORDINATE WITH ARCHITECTURAL, ROOM ELEVATIONS, DETAILS AND CASEWORK CONTRACTOR.

THE ELECTRICAL SYSTEMS PRESENTED ON THE SUBSEQUENT DRAWINGS WERE DESIGNED IN ACCORDANCE WITH THE FOLLOWING APPLICABLE CODES AND STANDARDS:

- THE NATIONAL ELECTRICAL CODE (NEC), 2017
- INTERNATIONAL BUILDING CODE (IBC), 2018
- INTERNATIONAL ENERGY CONSERVATION CODE (IECC), 2018
- ASHRAE STANDARD 90.1

GENERAL FIRE ALARM DEMOLITION NOTES:

- DEMOLITION OF ALL EXISTING FIRE ALARM EQUIPMENT AND ASSOCIATED RACEWAY SHALL BE COORDINATED WITH NEW WORK INSTALLATION.
- ALL EXISTING DEVICES IN AREAS WHERE NEW ARE SHOWN SHALL BE REMOVED IN THEIR ENTIRETY. ALL ASSOCIATED RACEWAY AND WIRE SHALL BE REMOVED.
- THIS CONTRACTOR WILL BE HELD RESPONSIBLE FOR ANY/DAMAGES TO EXISTING FLOORS, FLOOR TILES, WALLS, CEILINGS, FURNISHINGS, ETC. DUE TO THE REMOVAL PROCESS OF FIRE ALARM EQUIPMENT AND ALL ASSOCIATED ITEMS.
- ALL MATERIAL AND EQUIPMENT REMOVED SHALL BE PROPERLY DISPOSED OF BY THE CONTRACTOR.
- ALL EXISTING CONDUITS AND WIRING NOT BEING USED SHALL BE REMOVED BACK TO SOURCE.

GENERAL FIRE ALARM INSTALLATION NOTES:

- EXISTING FIRE ALARM SYSTEM SHALL REMAIN OPERATIONAL UNTIL THE NEW FIRE ALARM SYSTEM IS INSTALLED, TESTED, INSPECTED, AND ACCEPTED. ENSURE EXISTING SYSTEM REMAINS ON EMERGENCY POWER UNTIL REMOVED. REMOVE ALL COMPONENTS OF EXISTING FIRE ALARM SYSTEM ONCE NEW SYSTEM IS ACCEPTED. NEW SYSTEM SHALL NOT RELY ON ANY EXISTING COMPONENTS. ALL EXISTING DEVICES IN AREAS NOT INCLUDED IN THIS CONTRACT SHALL REMAIN FULLY OPERATIONAL.
- PROVIDE ALL 120V POWER TO NEW FIRE ALARM SYSTEM FROM LIFE SAFETY EMERGENCY PANELBOARDS. PROVIDE ALL NECESSARY WIRE, CONDUIT, CIRCUIT BREAKERS AND CONNECTIONS AS REQUIRED BY SELECTED FIRE ALARM SYSTEM.

SIGNAL SYSTEM	
	SMOKE DETECTOR
	DUCT MOUNTED SMOKE DETECTOR
	CARBON MONOXIDE DETECTOR
	HEAT DETECTOR
	MANUAL PULL STATION - SHALL BE MOUNTED SUCH THAT THE HANDLE IS NOT LESS THAN 42" AND NOT GREATER THAN 54" AFF.
	AUDIO ALARM - SHALL BE MOUNTED WITH THEIR TOPS AFF AT HEIGHTS OF NOT LESS 90" AFF. NOTE-EXISTING SYSTEM IS A VOICE ALARM SYSTEM
	AUDIO/VISUAL ALARM - SHALL BE MOUNTED SUCH THAT ENTIRE LENS IS NOT LESS THAN 80" AND NOT GREATER THAN 85" AFF. NOTE-EXISTING SYSTEM IS A VOICE ALARM SYSTEM
	VISUAL ALARM - SHALL BE MOUNTED SUCH THAT ENTIRE LENS IS NOT LESS THAN 80" AND NOT GREATER THAN 85" AFF.
	AUDIO ALARM - CEILING MOUNTED. NOTE-EXISTING SYSTEM IS A VOICE ALARM SYSTEM
	AUDIO/VISUAL ALARM - CEILING MOUNTED. NOTE-EXISTING SYSTEM IS A VOICE ALARM SYSTEM
	VISUAL ALARM - CEILING MOUNTED
	DOOR HOLDER - PROVIDE CONNECTION TO DOOR HARDWARE PROVIDE POWER FROM CIRCUIT SHOWN FOR DOOR HARDWARE. PROVIDE CONNECTION TO FIRE ALARM SYSTEM AND TO SMOKE DETECTORS. PROVIDE CONNECTION TO PANIC BUTTON IN RECEPTION.
	FLOW SWITCH
	TAMPER SWITCH
	PRESSURE SWITCH
	TIME CLOCK
	KEYPAD
	ADDRESSABLE INPUT MODULE
	ADDRESSABLE RELAY
	KEY BOX
	PUSHBUTTON - PROVIDE IN CASEWORK AND PROVIDE WIRING TO SECURITY SYSTEM FOR DOOR LOCKDOWN. COORDINATE WITH CASEWORK AND DISTRICT SECURITY VENDOR.
	FLOOR BOX MOUNTED DATA/TELEPHONE OUTLET
	VOLUME CONTROL
	CARD READER - EXTERIOR LOCATIONS - PROVIDE SQUARE BACK BOX AND EXTEND 1" CONDUIT WITH APPROPRIATE WIRING TO NEAREST DOOR HARDWARE INTERFACE. INTERIOR LOCATIONS - PROVIDE SINGLE BACK BOX AND EXTEND 1" CONDUIT WITH APPROPRIATE WIRING TO NEAREST DOOR HARDWARE INTERFACE COORDINATE FINAL LOCATION IN THE FIELD. PROVIDE CAT 6E CABLE TO NEAREST DATA CABINET.
	COMBINATION DATA/TELEPHONE OUTLET - PROVIDE A 4" SQUARE JUNCTION BOX WITH PLASTER RING AND A 3/4" CONDUIT STUB TO ABOVE ACCESSIBLE CEILING SPACE. MOUNT 1'-6" AFF UNLESS OTHERWISE NOTED
	DATA OUTLET WITH 4 OF JACKS (MINIMUM 2 JACKS PER LOCATION) - MOUNT 1'-6" AFF UNLESS OTHERWISE NOTED
	TELEPHONE OUTLET - MOUNT 1'-6" AFF UNLESS OTHERWISE NOTED
	CAMERA - PROVIDE BACK BOX ABOVE CEILING WITH 6" WHIP WHERE LOCATED OUTSIDE. PROVIDE WEATHERTIGHT DOUBLE GANG BACK BOX WITH COVER AS PER OWNER'S REQUIREMENTS. WHERE LOCATED IN A SPACE WITHOUT CEILINGS (OR HIGH CEILINGS), COORDINATE MOUNTING HEIGHT ON WALL WITH OWNER PRIOR TO ROUGH-IN. BOX MAYBE RECESSED IN WALL. PROVIDE CAT 6E CABLE BACK TO NEAREST DATA CLOSET. COORDINATE EXACT LOCATION IN THE FIELD WITH THE OWNER.
	DOOR CONTACT - PROVIDE DOUBLE GANG BOX ABOVE ACCESSIBLE CEILING.
	CEILING MOUNTED SPEAKER
	PA HORN SPEAKER
	PA HORN SPEAKER OUTDOOR WEATHER PROOF
	WIRELESS CLOCK - WHERE WALL MOUNTED, COORDINATE LOCATION IN THE FIELD WITH THE ARCHITECT AND OWNER.
ABBREVIATIONS & SYMBOLS	
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
ATS	AUTOMATIC TRANSFER SWITCH
CT	COUNTER HEIGHT-44" AFF (UNLESS OTHERWISE NOTED)
DC	DUCT COIL
DF	DRINKING FOUNTAIN
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
ERL	EXISTING TO BE RELOCATED
ETD	EXISTING TO BE DEMOLISHED
ETR	EXISTING TO REMAIN
GC	GENERAL CONTRACTOR
GF	GROUND FAULT INTERRUPTER
HC	HVAC CONTRACTOR
HP	HEAT PUMP
HV	HIGH VOLUME
KES	KITCHEN EQUIPMENT SUPPLIER
MW	MICROWAVE
PC	PLUMBING CONTRACTOR
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
WM	WALL MOUNTED
WP	WEATHERPROOF
T	DRAWING NOTE BY SYMBOL

NOTE:
NOT ALL ABBREVIATIONS AND SYMBOLS INDICATED MAY APPEAR ON THESE CONTRACT DRAWINGS. THIS IS FOR REFERENCE ONLY.

LIGHTING	
	2'x2' LIGHTING FIXTURE
	2'x4' LIGHTING FIXTURE
	2'x4' LIGHTING FIXTURE-EMERGENCY
	1'x8' LIGHTING FIXTURE
	2'x8' LIGHTING FIXTURE
	1'x4' LIGHTING FIXTURE
	6'x4' LIGHTING FIXTURE
	6'x2' LIGHTING FIXTURE
	WALL PACK LIGHTING FIXTURE
	STRIP LIGHT
	WALL WASHER FIXTURE
	ROUND RECESSED DOWNLIGHT FIXTURE
	NORMAL EMERGENCY FIXTURE
	EMERGENCY BATTERY UNIT
	REMOTE HEAD
	EXIT SIGN-DOUBLE FACE
	EXIT SIGN-CEILING MOUNTED WITH DIRECTIONAL ARROWS
	EXIT SIGN-SINGLE FACE
	WALL SCONCE

WIRING DEVICES	
	SINGLE POLE SWITCH - 3'-10" AFF UNLESS OTHERWISE NOTED
	3-WAY SWITCH - 3'-10" AFF UNLESS OTHERWISE NOTED
	4-WAY SWITCH - 3'-10" AFF UNLESS OTHERWISE NOTED
	KEY SWITCH - 3'-10" AFF UNLESS OTHERWISE NOTED
	SPRING WOUND TIME SWITCH, 5-MINUTE MAXIMUM DURATION - 3'-10" AFF UNLESS OTHERWISE NOTED
	SPRING WOUND TIME SWITCH, 1-HOUR MAXIMUM DURATION - 3'-10" AFF UNLESS OTHERWISE NOTED
	DIMMER SWITCH - 3'-10" AFF UNLESS OTHERWISE NOTED
	MANUAL MOTOR STARTER SWITCH - 3'-10" AFF UNLESS OTHERWISE NOTED
	3-WAY DIMMER SWITCH - 3'-10" AFF UNLESS OTHERWISE NOTED
	OCCUPANCY SENSOR SWITCH - 3'-10" AFF UNLESS OTHERWISE NOTED
	PILOT LIGHT SWITCH - 3'-10" AFF UNLESS OTHERWISE NOTED
	MANUAL OVERRIDE
	SWITCH WITH OCCUPANCY SENSOR AND DIMMING CAPABILITY 3' 10" AFF UNLESS NOTED OTHERWISE
	DUAL TECHNOLOGY OCCUPANCY SENSOR - 360°
	DUAL TECHNOLOGY OCCUPANCY SENSOR - CORRIDOR PATTERN
	DUAL TECHNOLOGY OCCUPANCY SENSOR - CORNER MOUNT
	CEILING MOUNTED DAYLIGHT SENSOR
	MULTIPLE BUTTON DIGITAL CONTROL STATION WITH ON/OFF - 3'-10" AFF UNLESS OTHERWISE NOTED.
	DUPLEX RECEPTACLE - NEMA 5-20R, MOUNT 1'-6" AFF UNLESS OTHERWISE NOTED
	COUNTER TOP DUPLEX RECEPTACLE MOUNT 3" ABOVE BACKSPASH OR AT 3'-10"
	TAMPERPROOF DUPLEX RECEPTACLE - NEMA 5-20R, MOUNT 1'-6" AFF UNLESS OTHERWISE NOTED
	DUPLEX RECEPTACLE WITH USB PORT - MOUNT AT 1'-6" UNLESS NOTED OTHERWISE
	SINGLE RECEPTACLE - MOUNT 1'-6" AFF UNLESS OTHERWISE NOTED
	GFI DUPLEX RECEPTACLE - MOUNT AT 1'-6" AFF UNLESS OTHERWISE NOTED
	DUPLEX RECEPTACLE WITH TOP SWITCHED - 1'-6" AFF UNLESS NOTED OTHERWISE
	QUAD RECEPTACLE - NEMA 5-20R, MOUNT 1'-6" AFF UNLESS OTHERWISE NOTED
	SINGLE PHASE SPECIAL RECEPTACLE - MOUNT 1'-6" AFF UNLESS OTHERWISE NOTED
	THREE PHASE SPECIAL RECEPTACLE - MOUNT 1'-6" AFF UNLESS OTHERWISE NOTED
	FLOOR BOX MOUNTED DUPLEX RECEPTACLE
	COMBINATION POWER/COMMUNICATIONS FLOOR BOX DEVICES AS INDICATED
	CORD REEL
	TELEVISION CABLE OUTLET
	POKE THRU RECEPTACLE

PANELBOARDS	
	SURFACE MOUNTED PANEL
	FLUSH MOUNTED PANEL
	EXISTING SURFACE MOUNTED PANEL
	EXISTING FLUSH MOUNTED PANEL

CIRCUITING	
	JUNCTION BOX
ROOM NAME	BRANCH CIRCUIT NUMBER FOR ALL ITEMS IN THIS ROOM UNLESS OTHERWISE INDICATED. (-) INDICATES CONNECTION TO CIRCUIT NUMBER SHOWN NEXT TO DEVICE
ROOM #	
P-1	

DEMOLITION DRAWING LINETYPE DESIGNATIONS	
	EXISTING TO REMAIN
	EXISTING TO BE REMOVED

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NO.	DATE	DESCRIPTION OF CHANGES

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401 EAST WINDING HILL ROAD
 MECHANICSBURG PA 17055
 717-458-0272

PALMERTON AREA SCHOOL DISTRICT
S.S. PALMER ELEMENTARY SCHOOL
 SECURITY VESTIBULE & RENOVATIONS
 298 LAFAYETTE AVENUE
 PALMERTON, PA 18071

ELECTRICAL DRAWING LIST	
E0.0	ELECTRICAL INFORMATION SHEET
E1.0	OVERALL FIRST FLOOR PLAN - ELECTRICAL
E1.1	OVERALL SECOND FLOOR PLAN - ELECTRICAL
E1.2	OVERALL THIRD FLOOR PLAN - ELECTRICAL
E3.0	ENLARGED PLANS - ELECTRICAL
E3.1	ENLARGED PLANS - ELECTRICAL
E3.2	ENLARGED PLANS - ELECTRICAL
E4.0	ELECTRICAL DETAILS
E5.0	ELECTRICAL SCHEDULES
ED1.0	FIRST FLOOR PLAN - DEMOLITION - LIGHTING
ED1.1	SECOND FLOOR PLAN - DEMOLITION - LIGHTING
ED1.2	FIRST FLOOR PLAN - DEMOLITION - POWER
ED1.3	SECOND FLOOR PLAN - DEMOLITION - POWER

ELECTRICAL INFORMATION SHEET

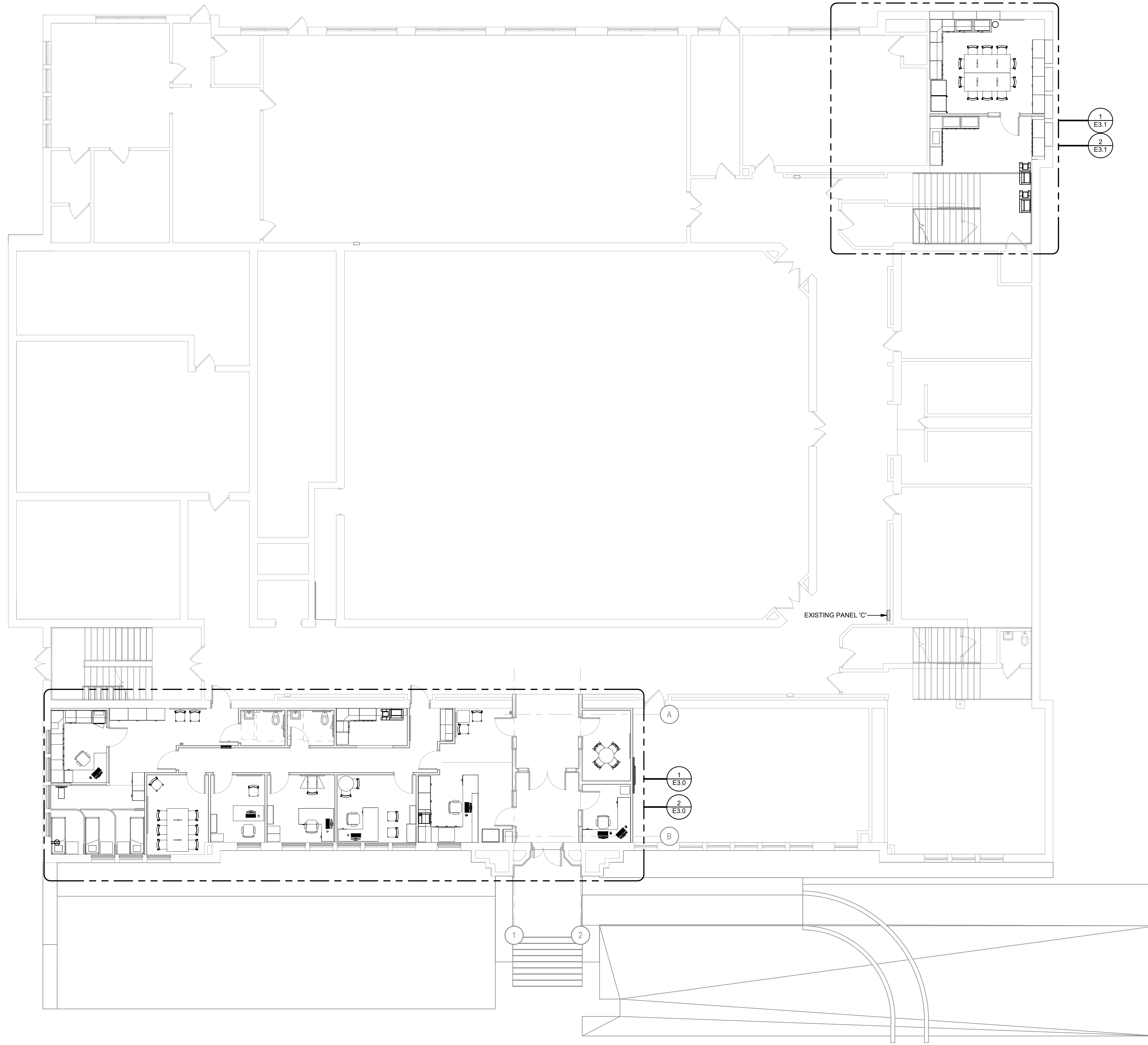
PROJECT
 3378.1

SCALE
 1/2" = 1'-0"

FILENAME:

DATE:
 02/08/2024

E0.0



① OVERALL FIRST FLOOR PLAN - ELECTRICAL
SCALE: 1/8" = 1'-0"



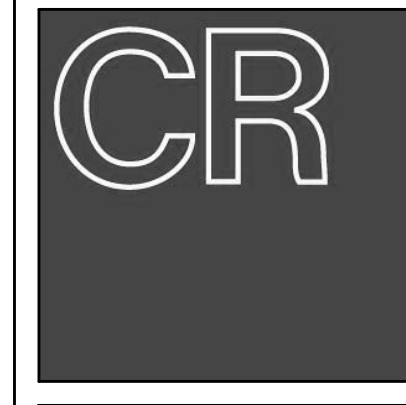
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OVERALL FIRST FLOOR PLAN
- ELECTRICAL

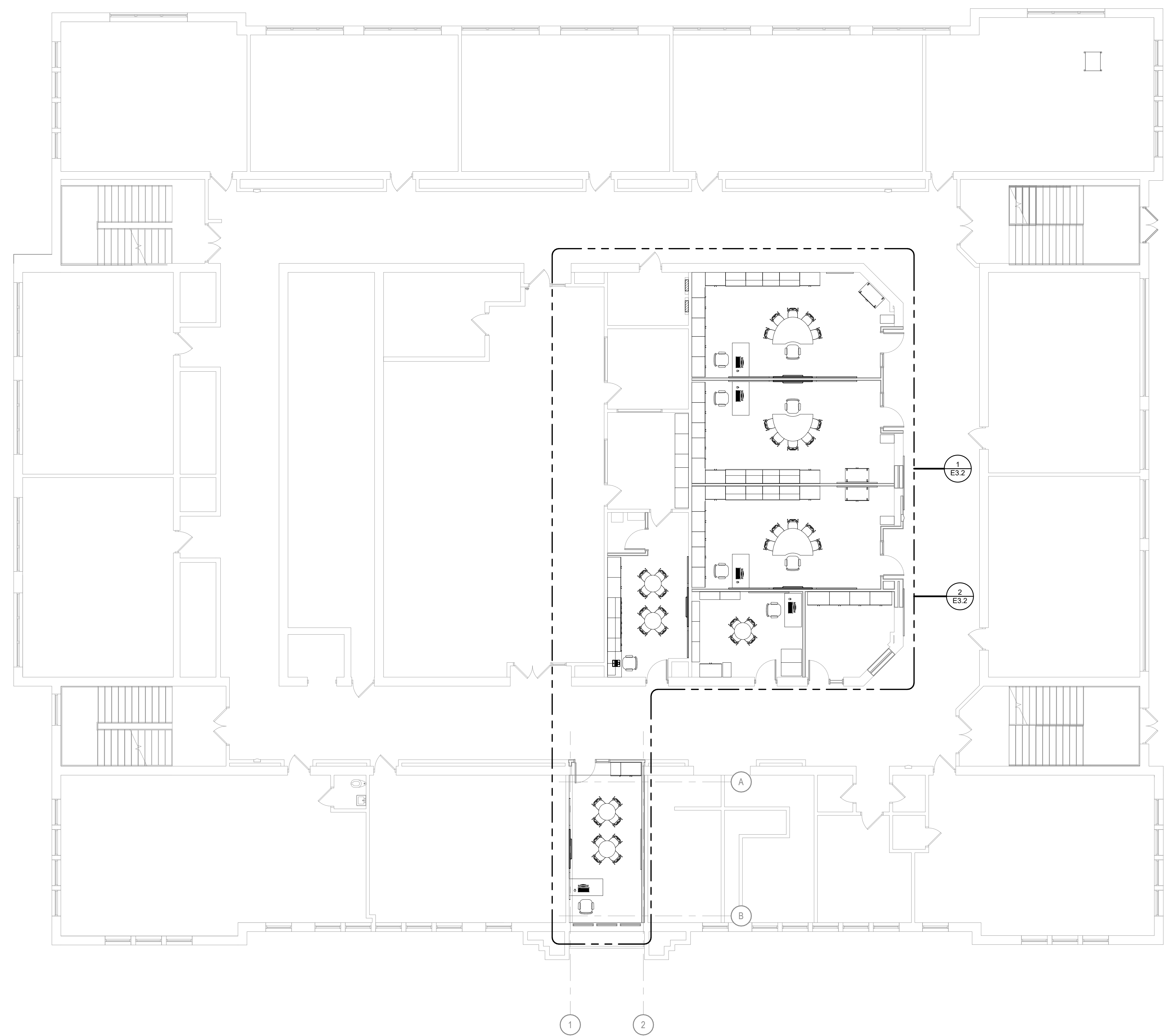
PLOT SCALE:
1/8" = 1'-0"

FILENAME:

DATE:
02/08/2024

PROJECT
3378.1

E1.0



① OVERALL SECOND FLOOR PLAN - ELECTRICAL
SCALE: 1/8" = 1'-0"

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OVERALL SECOND FLOOR
 PLAN - ELECTRICAL

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

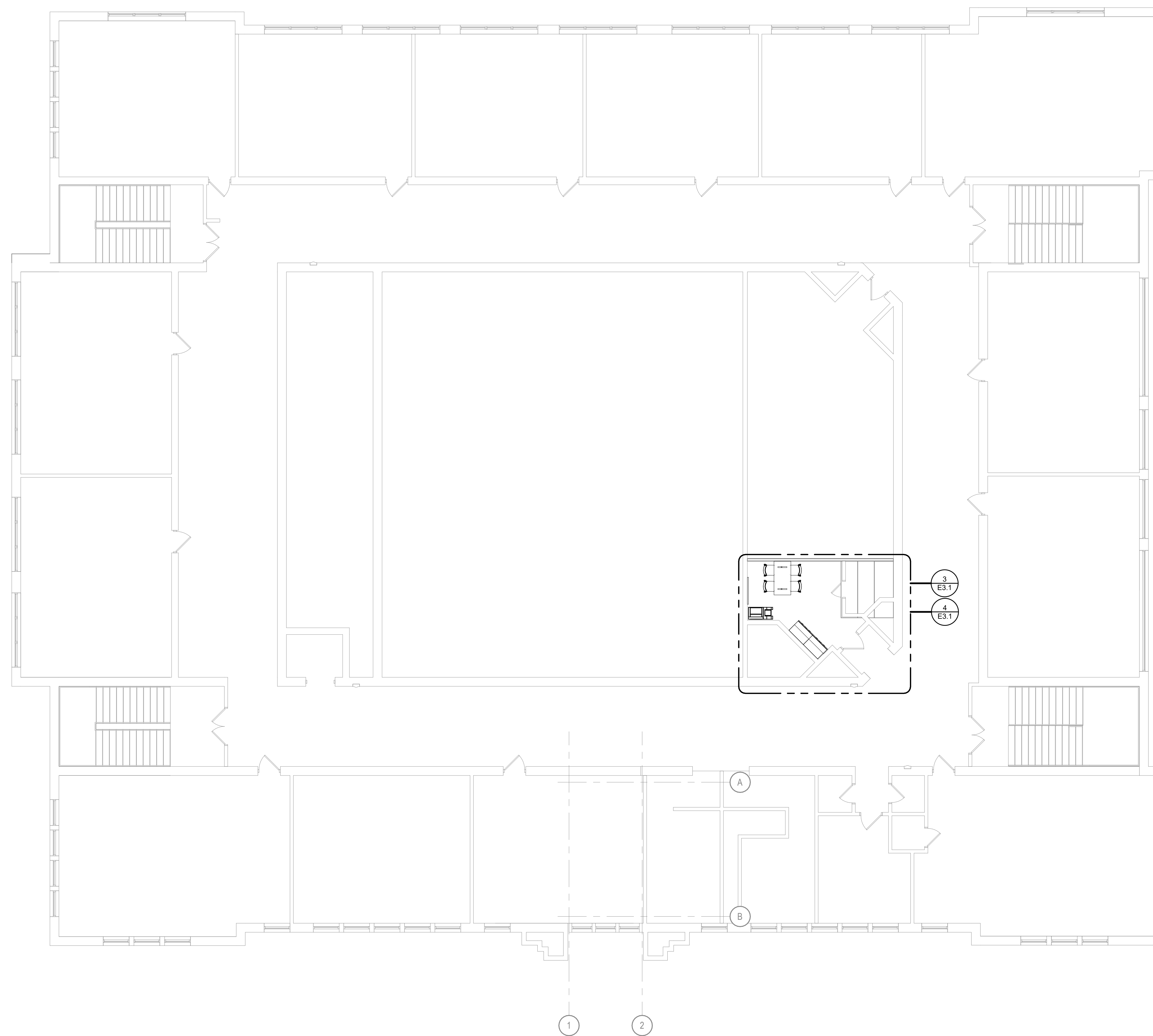
FILENAME:

DATE:
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PROJECT
 3378.1

E1.1

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1 OVERALL THIRD FLOOR PLAN - ELECTRICAL
SCALE: 1/8" = 1'-0"

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OVERALL THIRD FLOOR PLAN
- ELECTRICAL

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

FILENAME:

DATE:
02/09/24

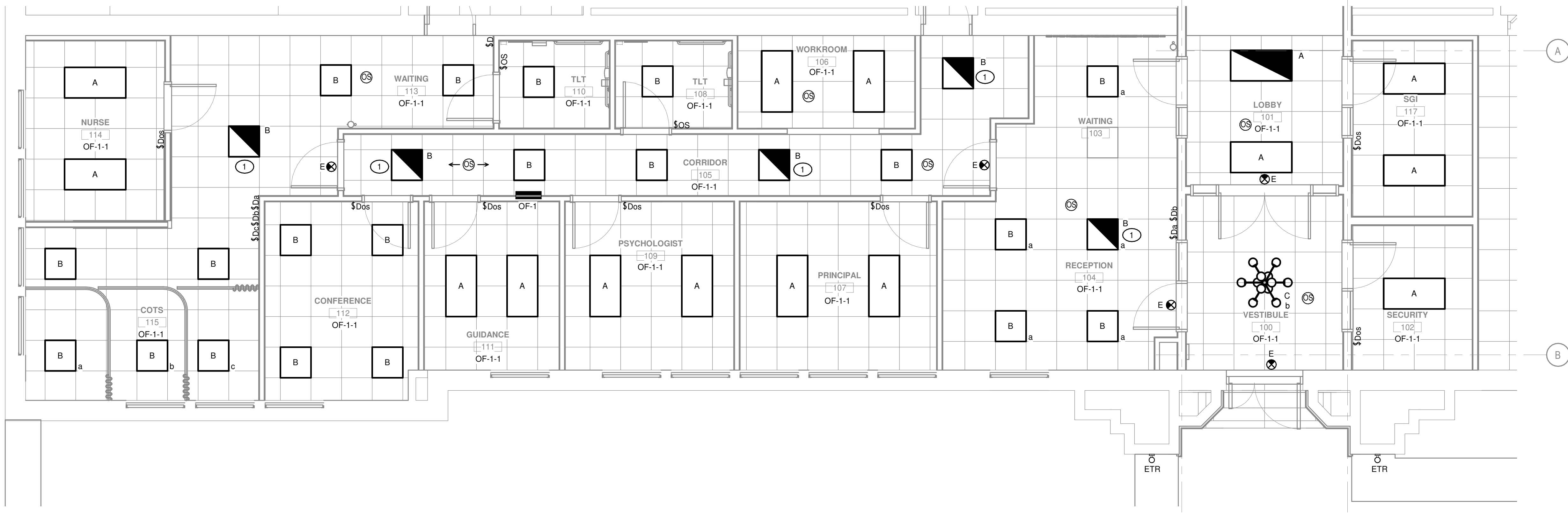
PROJECT
3378.1
E1.2

GENERAL NOTES:

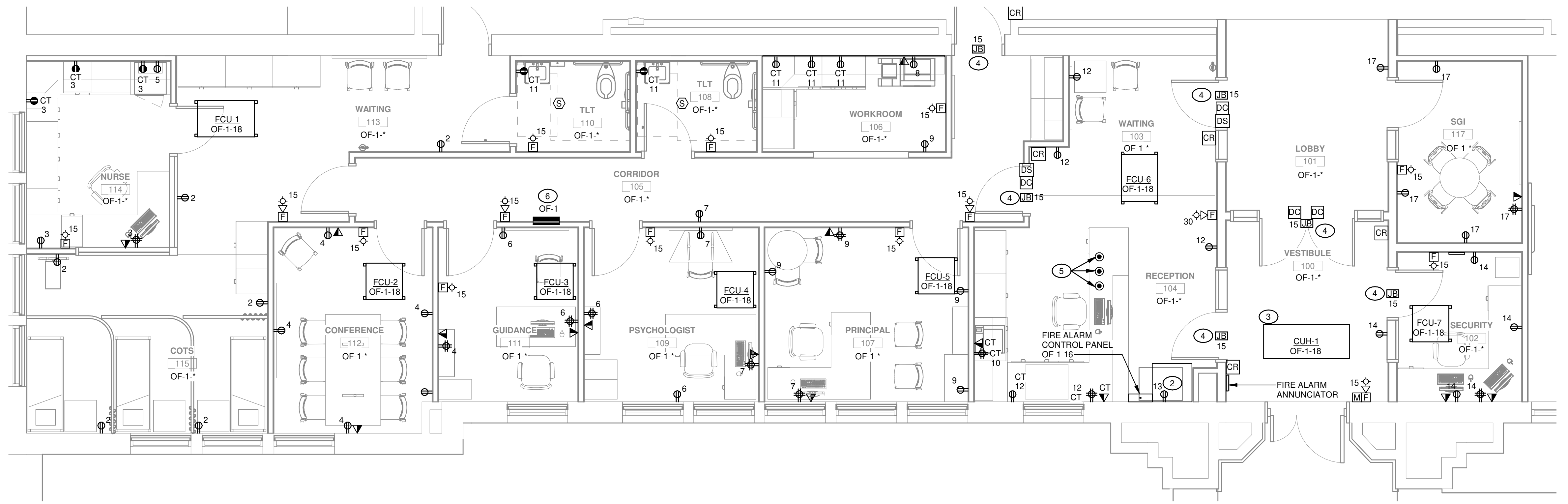
- PROVIDE CONDUITS FOR ALL DOOR HARDWARE CABLING. INSTALL ALL CABLING FURNISHED BY THE DOOR HARDWARE SUPPLIER. COORDINATE WITH DOOR HARDWARE SUPPLIER FOR A LIST OF SPECIFIC DOORS REQUIRING CABLING INSTALLATION.
- CONNECT ALL EMERGENCY LIGHTING AND EXIT SIGNS TO LOCAL UNSWITCHED LEG OF EMERGENCY CIRCUIT WITH 2#12, 1#12G IN 3/4" CONDUIT.
- PROVIDE FIRE ALARM DEVICES COMPATIBLE WITH THE EXISTING FIRE ALARM SYSTEM IN THE SCHOOL AND CONNECT TO EXISTING FIRE ALARM SYSTEM.
- THE EXISTING FIRE ALARM SYSTEM IS A VOICE ALARM SYSTEM MANUFACTURED BY SIMPLEX GRINELL. THE EXISTING FIRE ALARM CONTROL PANEL IS A 4100ES LOCATION AS SHOWN ON THE PLANS. PROVIDE NEW FIRE ALARM DEVICES COMPATIBLE WITH THE EXISTING FIRE ALARM SYSTEM AND INCLUDE AS PART OF THE PROJECT THE COMPLETE FIRE ALARM DOCUMENTATION REQUIRED BY NFPA 72 SECTION 7.2. CONTACT YOUR LOCAL IMPLEX REPRESENTATIVE FOR PRICING ASSOCIATED WITH THE NECESSARY EQUIPMENT ON THIS PROJECT AND INCLUDE ALL NECESSARY TESTING.

NOTES BY SYMBOL:

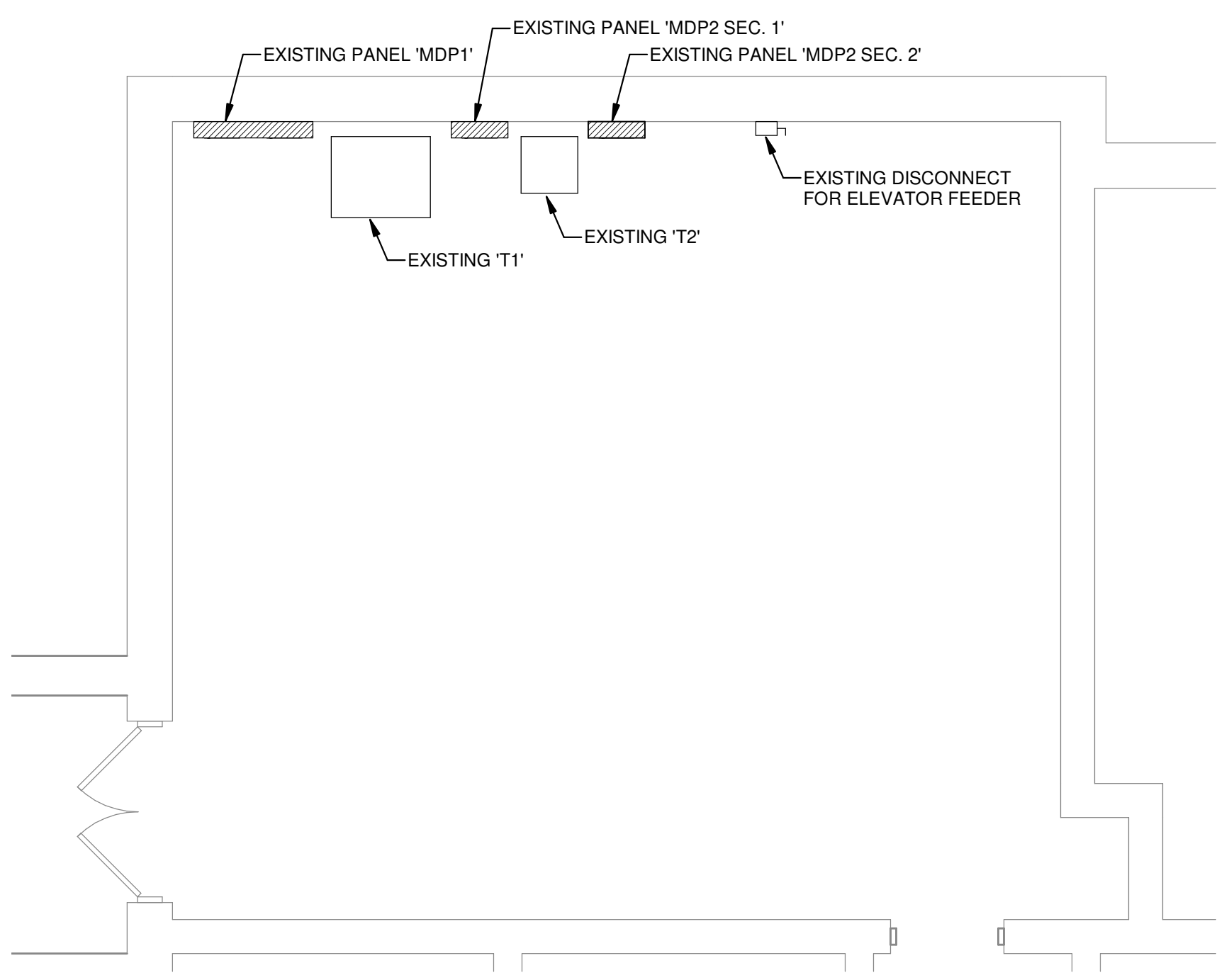
- (THIS DRAWING ONLY)
- CONNECT THIS FIXTURE TO THE NEW NORMAL LIGHTING CIRCUIT INDICATED AND THE EXISTING EMERGENCY LIGHTING CIRCUIT RETAINED ABOVE CEILING DURING DEMOLITION THROUGH AN EMERGENCY TRANSFER DEVICE WITH 2 #12 & 1 #12G IN 3/4" CONDUIT. REFER TO EMERGENCY TRANSFER DEVICE DETAIL.
 - RELOCATED SCHOOL PA SYSTEM. RECONNECT ALL ASSOCIATED WIRING TO NEW LOCATION THROUGH CEILING.
 - RELOCATED FIRE ALARM CONTROL PANEL. RECONNECT ALL ASSOCIATED WIRING FROM DEMOLISHED LOCATION TO NEW LOCATION. AFTER RECONNECTION ENSURE FIRE ALARM SYSTEM IS WORKING PROPERLY.
 - FOR POWER TO DOOR. COORDINATE CONNECTIONS TO DOOR HARDWARE IN THE FIELD.
 - DOOR RELEASE BUTTONS. COORDINATE WITH DOOR HARDWARE MANUFACTURER. COORDINATE EXACT LOCATIONS WITH OWNER. LABEL EACH DOOR RELEASE BUTTON TO INDICATE WHICH DOOR IT CONTROLS.
 - NEW 100A SUBPANEL OF-1 FROM SPARE IN PANEL MDP-2 LOCATED IN BASEMENT. SEE ONE LINE DIAGRAM FOR WIRE SIZE.



1 ENLARGED FIRST FLOOR PLAN - AREA A - LIGHTING
 SCALE: 1/4" = 1'-0"



2 ENLARGED FIRST FLOOR PLAN - AREA A - POWER
 SCALE: 1/4" = 1'-0"



3 PARTIAL BASEMENT PLAN - ELECTRICAL
 SCALE: 1/4" = 1'-0"

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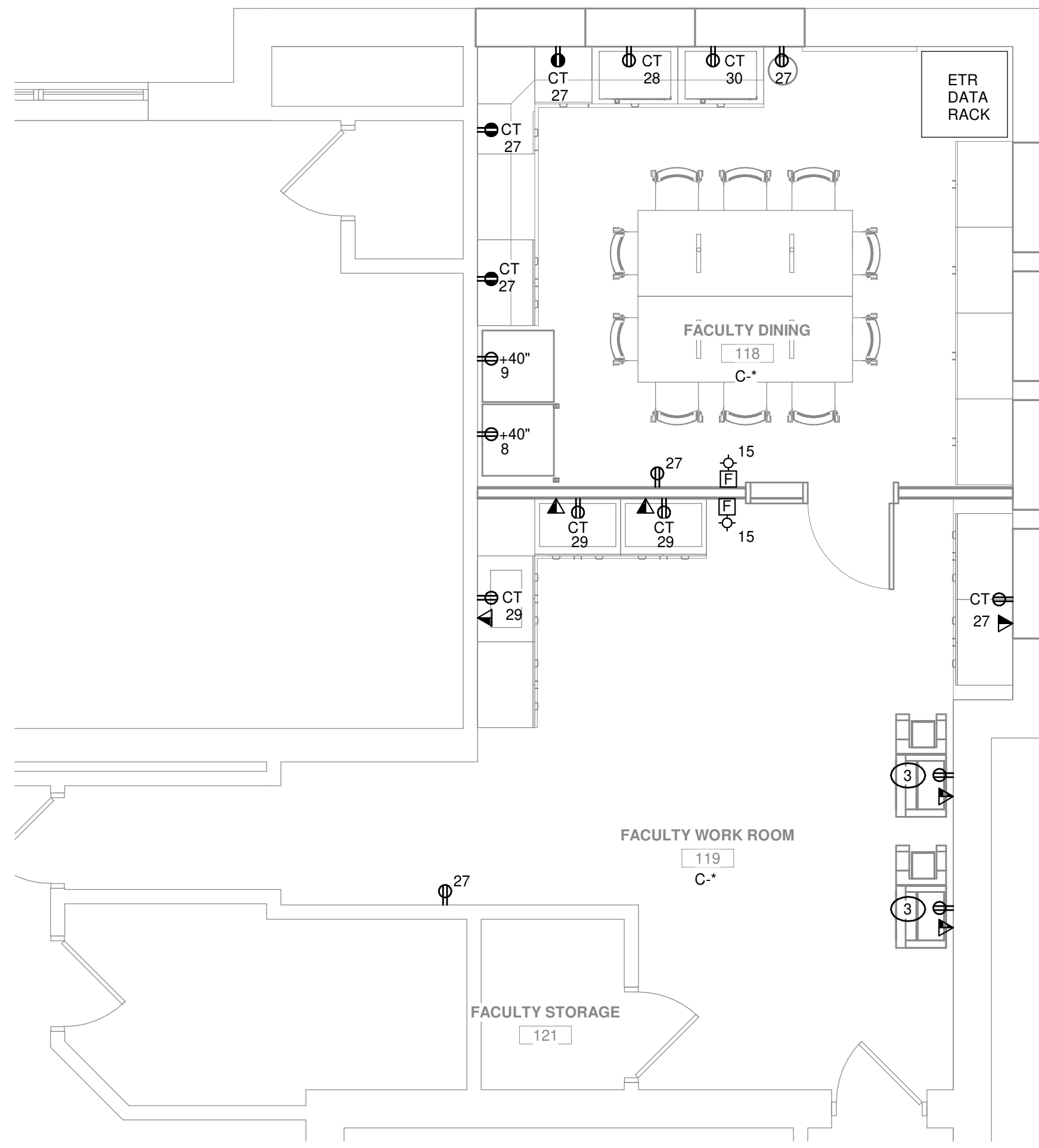
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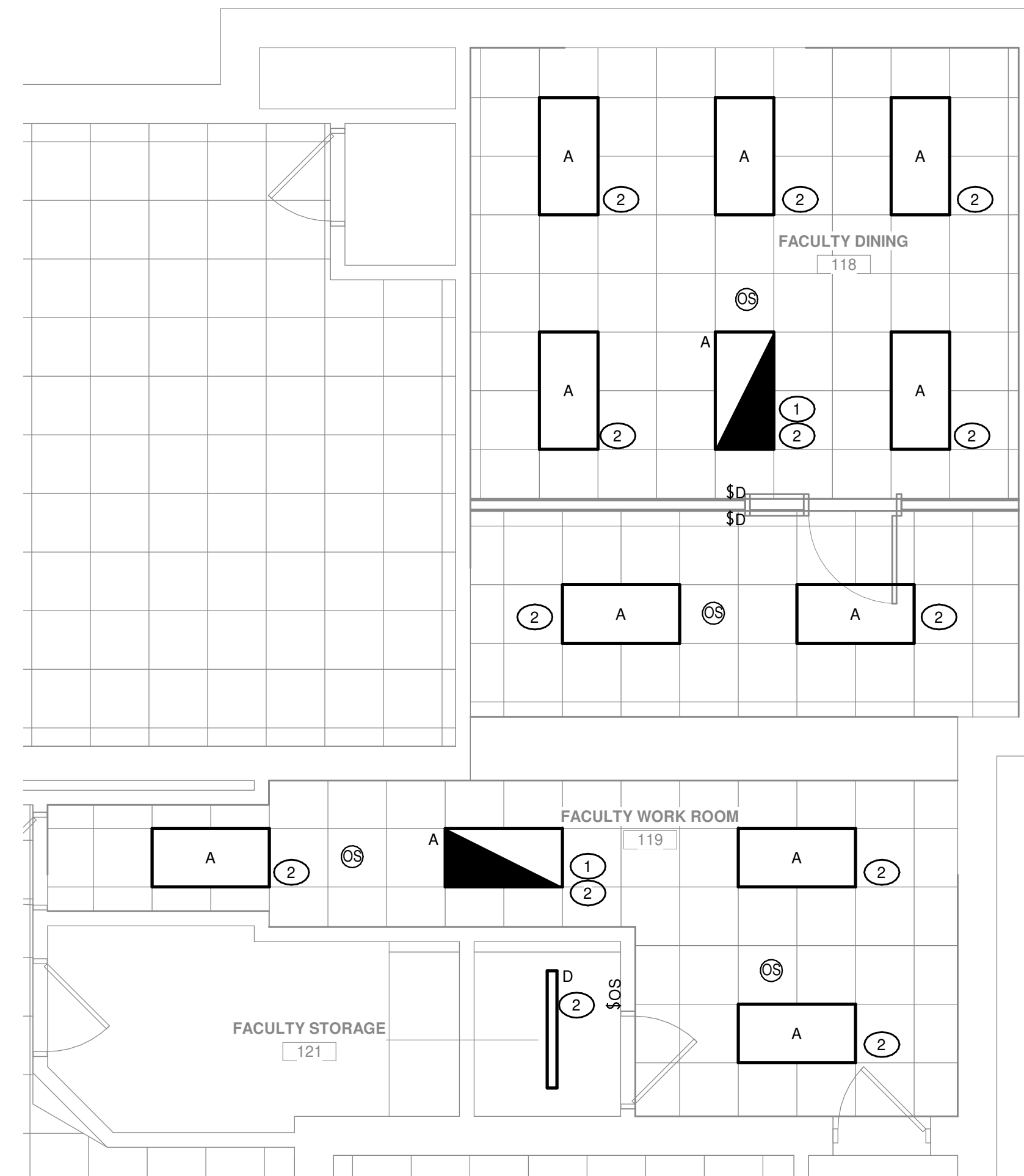
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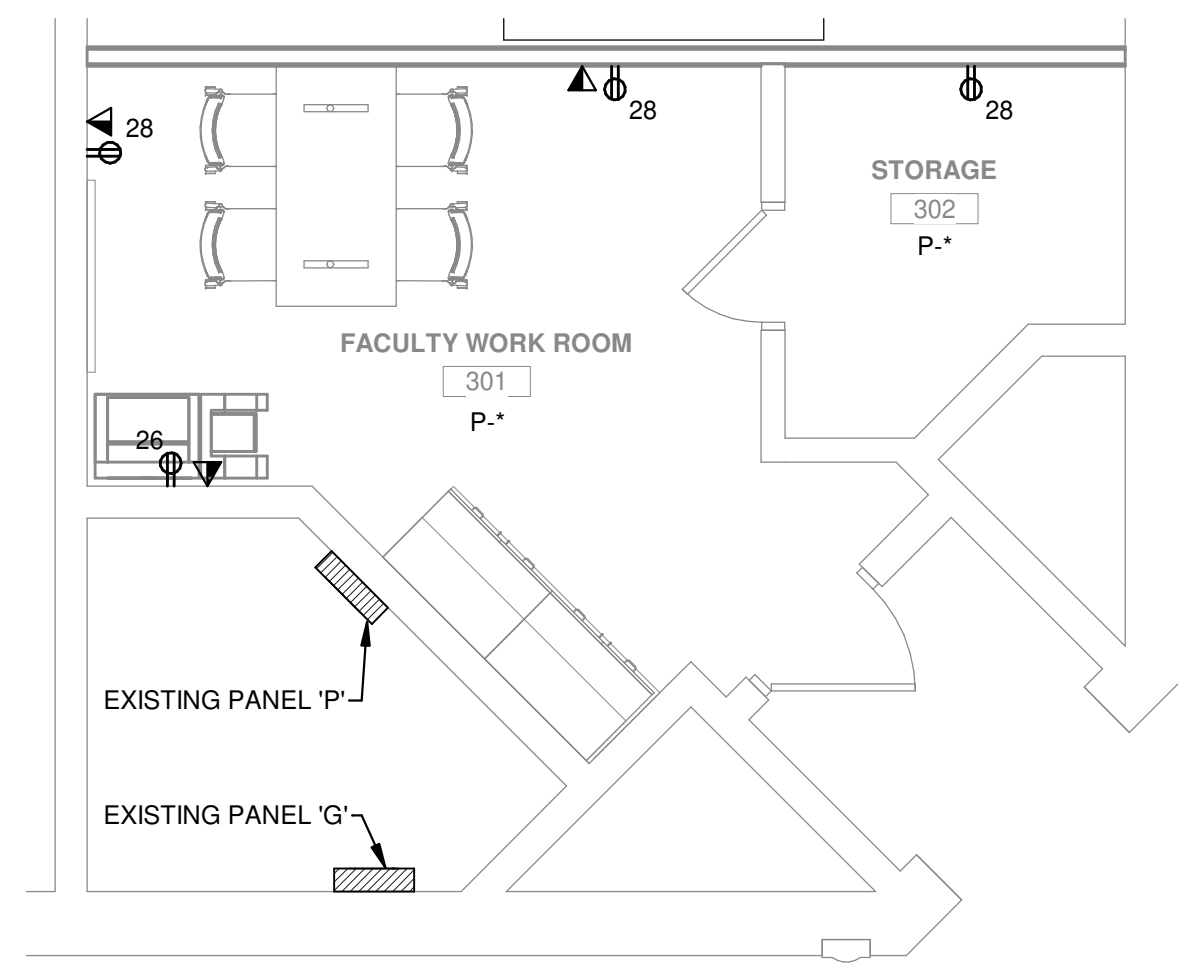
ENLARGED PLANS - ELECTRICAL	PROJECT 3378.1
PLOT SCALE 1/4" = 1'-0"	E3.0
FILENAME:	
DATE: 02/09/24	



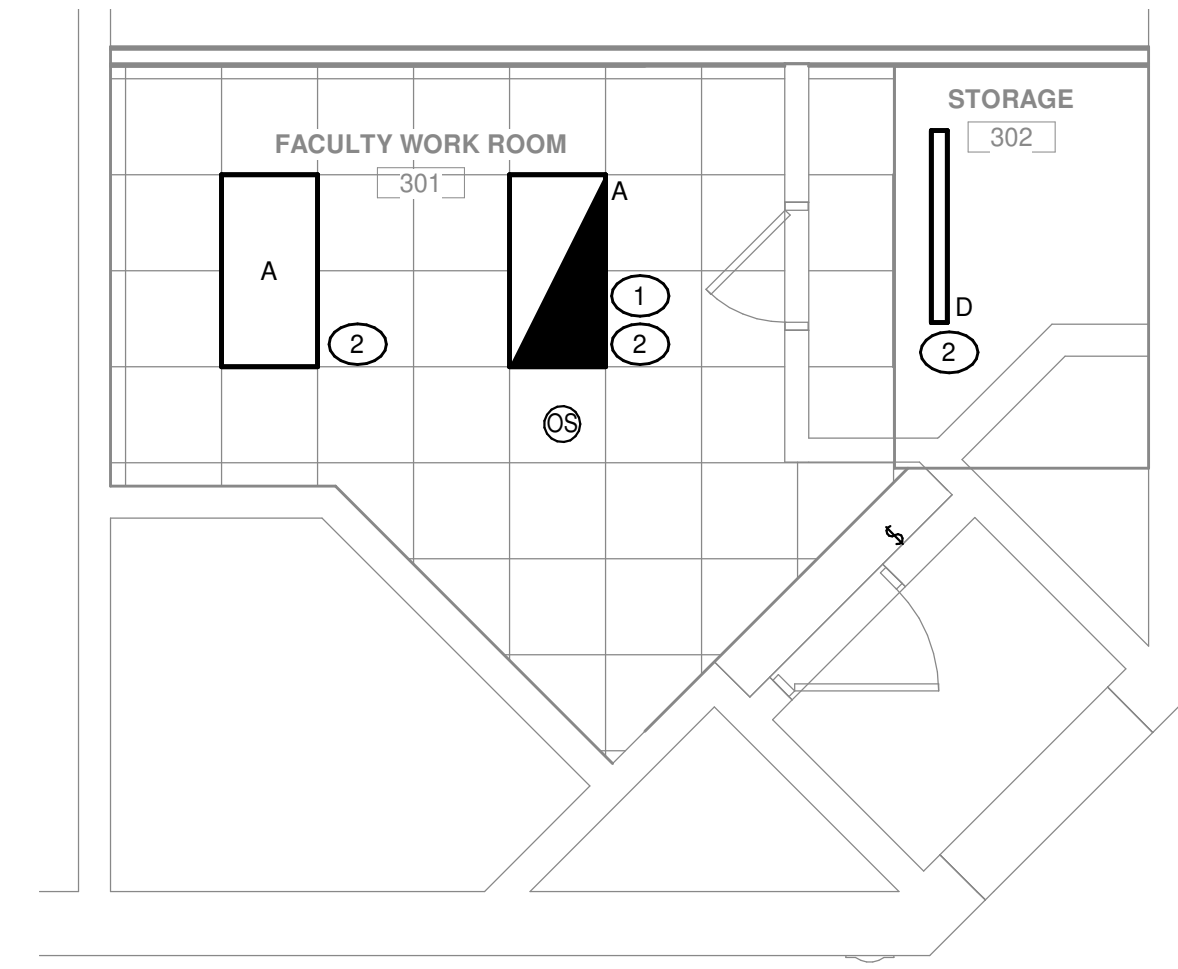
1 ENLARGED FIRST FLOOR PLAN - AREA B - POWER
SCALE: 1/4" = 1'-0"



2 ENLARGED FIRST FLOOR PLAN - AREA B - LIGHTING
SCALE: 1/4" = 1'-0"



3 ENLARGED THIRD FLOOR PLAN - POWER
SCALE: 1/4" = 1'-0"



4 ENLARGED THIRD FLOOR PLAN - LIGHTING
SCALE: 1/4" = 1'-0"

GENERAL NOTES:

- CONNECT ALL EMERGENCY LIGHTING AND EXIT SIGNS TO LOCAL UNSWITCHED LEG OF EMERGENCY CIRCUIT WITH 2#12, 1#12G IN 3/4" CONDUIT.
- PROVIDE FIRE ALARM DEVICES COMPATIBLE WITH THE EXISTING FIRE ALARM SYSTEM IN THE SCHOOL AND CONNECT TO EXISTING FIRE ALARM SYSTEM.
- THE EXISTING FIRE ALARM SYSTEM IS A VOICE ALARM SYSTEM MANUFACTURED BY SIMPLEX GRINELL. THE EXISTING FIRE ALARM CONTROL PANEL IS A 4100ES LOCATION AS SHOWN ON THE PLANS. PROVIDE NEW FIRE ALARM DEVICES COMPATIBLE WITH THE EXISTING FIRE ALARM SYSTEM AND INCLUDE AS PART OF THE PROJECT THE COMPLETE FIRE ALARM DOCUMENTATION REQUIRED BY NFPA 72 SECTION 7.2. CONTACT YOUR LOCAL IMPLEX REPRESENTATIVE FOR PRICING ASSOCIATED WITH THE NECESSARY EQUIPMENT ON THIS PROJECT AND INCLUDE ALL NECESSARY TESTING.

NOTES BY SYMBOL: 1

- (THIS DRAWING ONLY)
- CONNECT THIS FIXTURE TO THE NEW NORMAL LIGHTING CIRCUIT INDICATED AND THE EXISTING EMERGENCY LIGHTING CIRCUIT RETAINED ABOVE CEILING DURING DEMOLITION THROUGH AN EMERGENCY TRANSFER DEVICE WITH 2 #12 & 1 #12G IN 3/4" CONDUIT. REFER TO EMERGENCY TRANSFER DEVICE DETAIL.
 - CONNECT NEW LIGHTING TO EXISTING LIGHTING CIRCUIT MAINTAINED DURING DEMOLITION WITH 2#12, 1#12G, IN 3/4" CONDUIT.
 - CONNECT PRINTER/COPYER TO SEPERATE DEDICATED CIRCUITS FROM EXISTING PANEL 'C' IF AVAILABLE CIRCUITS AFTER DEMOLITION. OTHERWISE CONNECT TO SEPERATE DEDICATED CIRCUITS IN EXISTING PANEL 'B' WITH 2#12, 1#12G, IN 3/4" CONDUIT.

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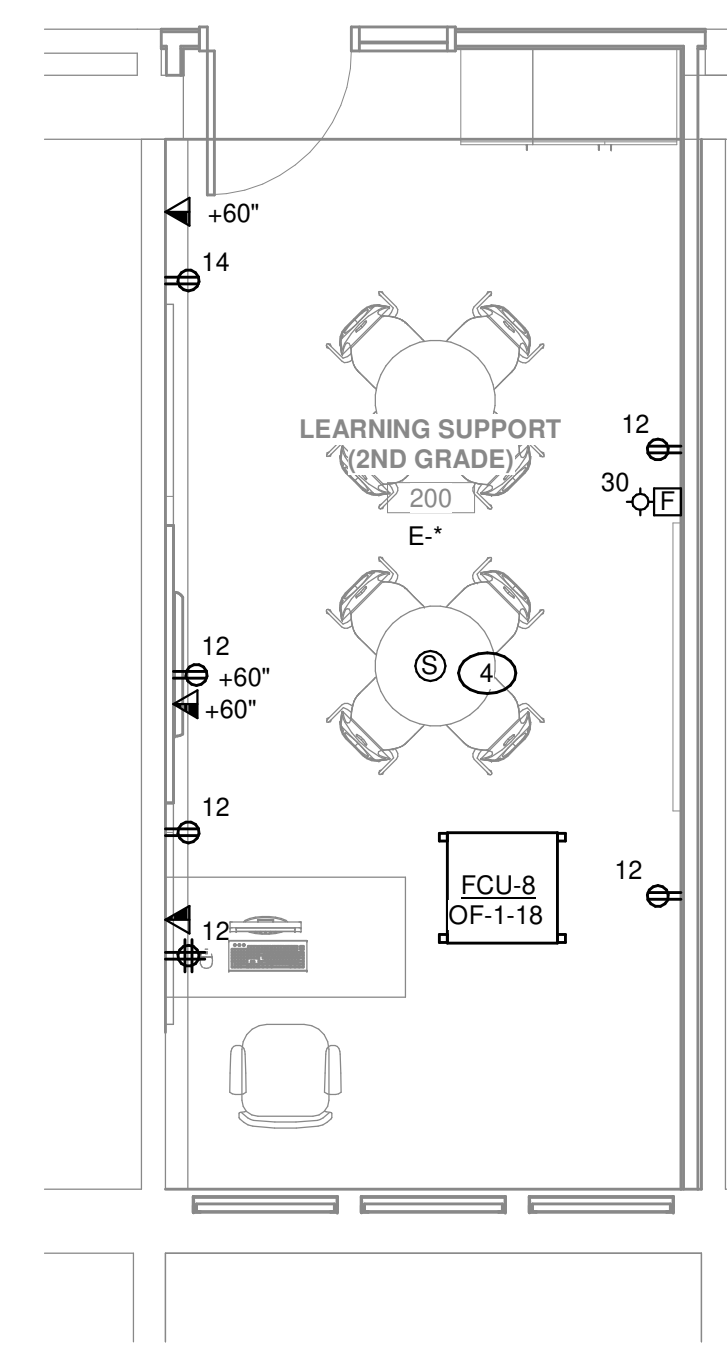
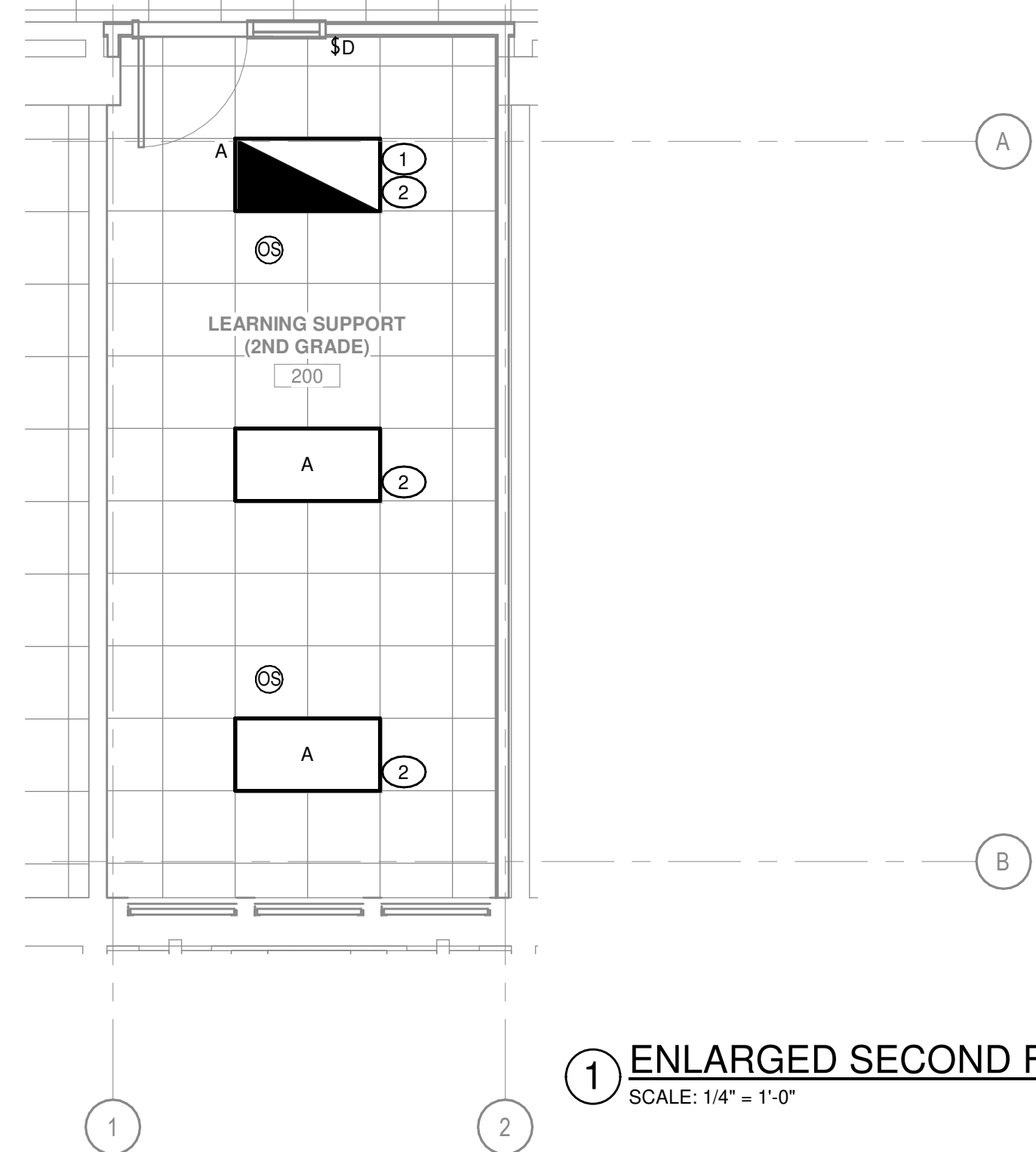
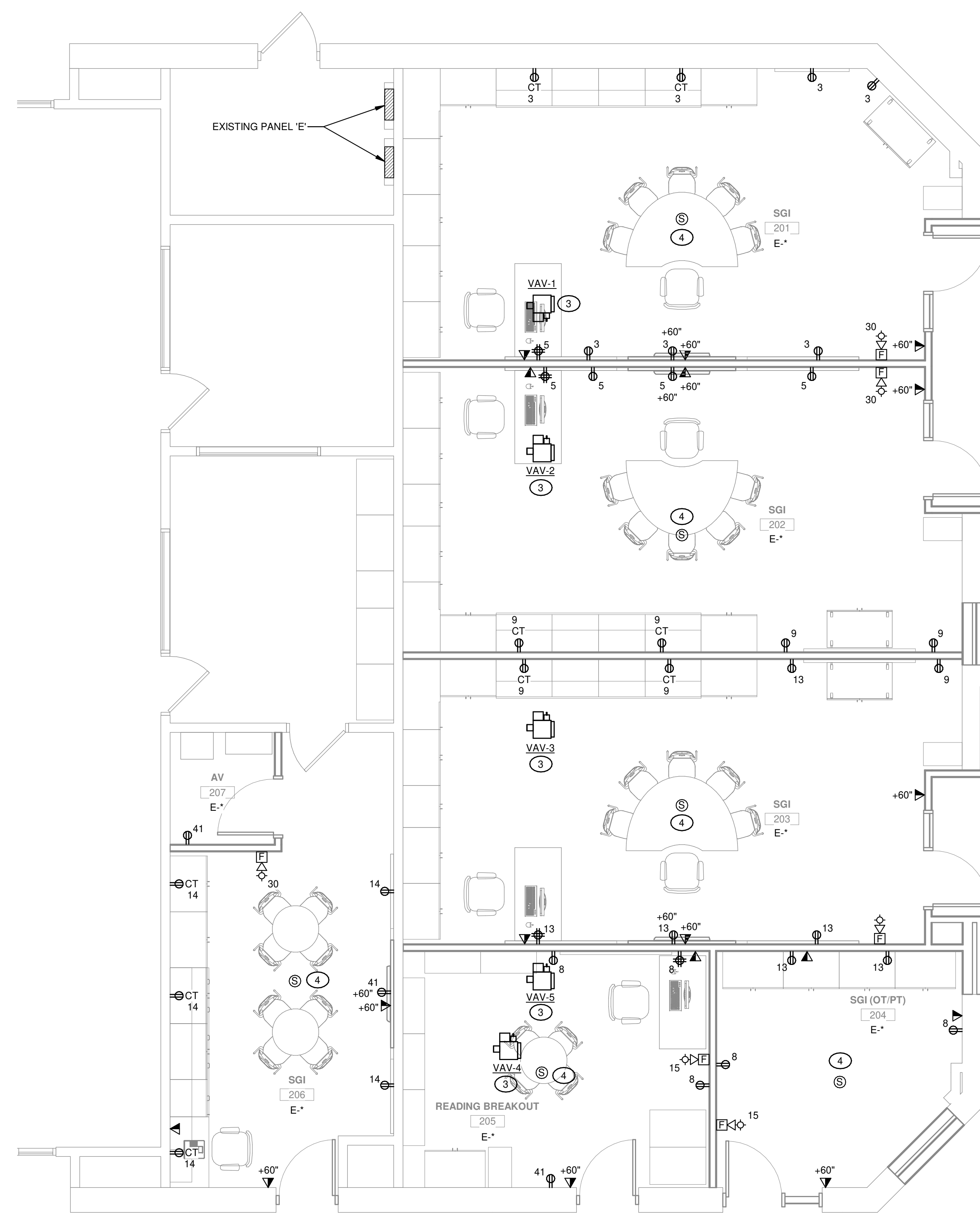
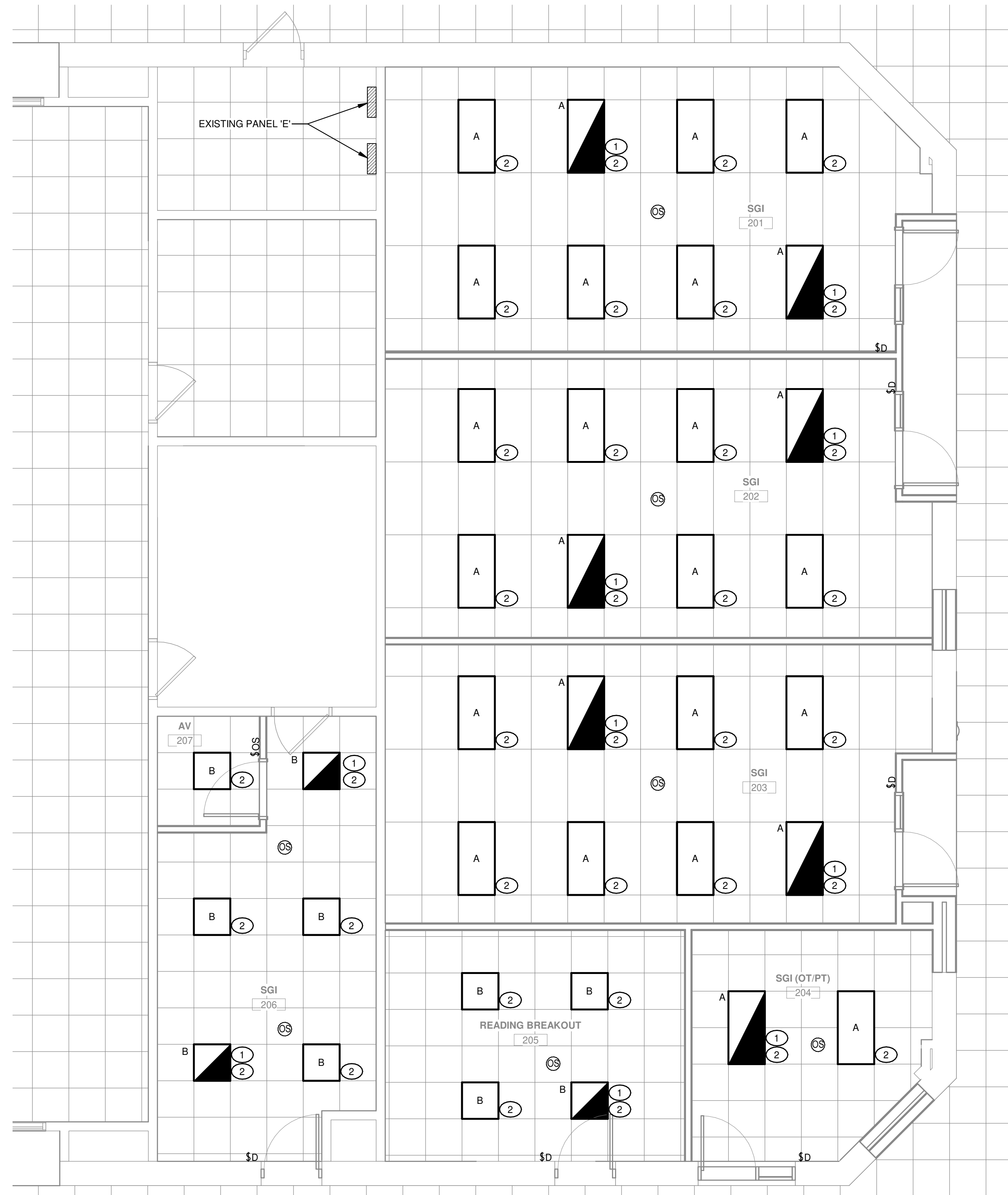
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ENLARGED PLANS - ELECTRICAL
PLOT SCALE: 1/4" = 1'-0"
FILENAME:
DATE: 02/09/24

PROJECT
3378.1
E3.1



1 ENLARGED SECOND FLOOR PLAN - AREA A - LIGHTING
SCALE: 1/4" = 1'-0"

2 ENLARGED SECOND FLOOR PLAN - AREA A - POWER
SCALE: 1/4" = 1'-0"

GENERAL NOTES:

- CONNECT ALL EMERGENCY LIGHTING AND EXIT SIGNS TO LOCAL UNSWITCHED LEG OF EMERGENCY CIRCUIT WITH 2#12, 1#12G IN 3/4" CONDUIT.
- PROVIDE FIRE ALARM DEVICES COMPATIBLE WITH THE EXISTING FIRE ALARM SYSTEM IN THE SCHOOL AND CONNECT TO EXISTING FIRE ALARM SYSTEM.
- THE EXISTING FIRE ALARM SYSTEM IS A VOICE ALARM SYSTEM MANUFACTURED BY SIMPLEX GRINELL. THE EXISTING FIRE ALARM CONTROL PANEL IS A 4100ES LOCATION AS SHOWN ON THE PLANS. PROVIDE NEW FIRE ALARM DEVICES COMPATIBLE WITH THE EXISTING FIRE ALARM SYSTEM AND INCLUDE AS PART OF THE PROJECT THE COMPLETE FIRE ALARM DOCUMENTATION REQUIRED BY NFPA 72 SECTION 7.2. CONTACT YOUR LOCAL IMPLX REPRESENTATIVE FOR PRICING ASSOCIATED WITH THE NECESSARY EQUIPMENT ON THIS PROJECT AND INCLUDE ALL NECESSARY TESTING.

NOTES BY SYMBOL:

- (THIS DRAWING ONLY)
- CONNECT FIXTURE TO THE LOCAL EMERGENCY CIRCUIT AND NORMAL CIRCUIT IN THIS AREA WITH 2#12, 1#12G IN 3/4" CONDUIT.
 - CONNECT THIS FIXTURE TO THE NEW NORMAL LIGHTING CIRCUIT INDICATED AND THE EXISTING EMERGENCY LIGHTING CIRCUIT RETAINED ABOVE CEILING DURING DEMOLITION THROUGH AN EMERGENCY TRANSFER DEVICE WITH 2 #12, 1 #12G IN 3/4" C. REFER TO EMERGENCY TRANSFER DEVICE DETAIL.
 - CONNECT NEW HOT WATER VAV TO SPARE 20A-1P BREAKER WITH 2#12, 1#12G IN 3/4" CONDUIT.
 - PROVIDE NEW CEILING SPEAKER COMPATIBLE WITH EXISTING PA SYSTEM. REUSE EXISTING WIRING FOR SPEAKERS FROM DEMOLITION. EXTEND TO NEW SPEAKER LOCATION IF NECESSARY. COORDINATE WITH SCHOOL DISTRICT SOUND SYSTEM VENDOR.

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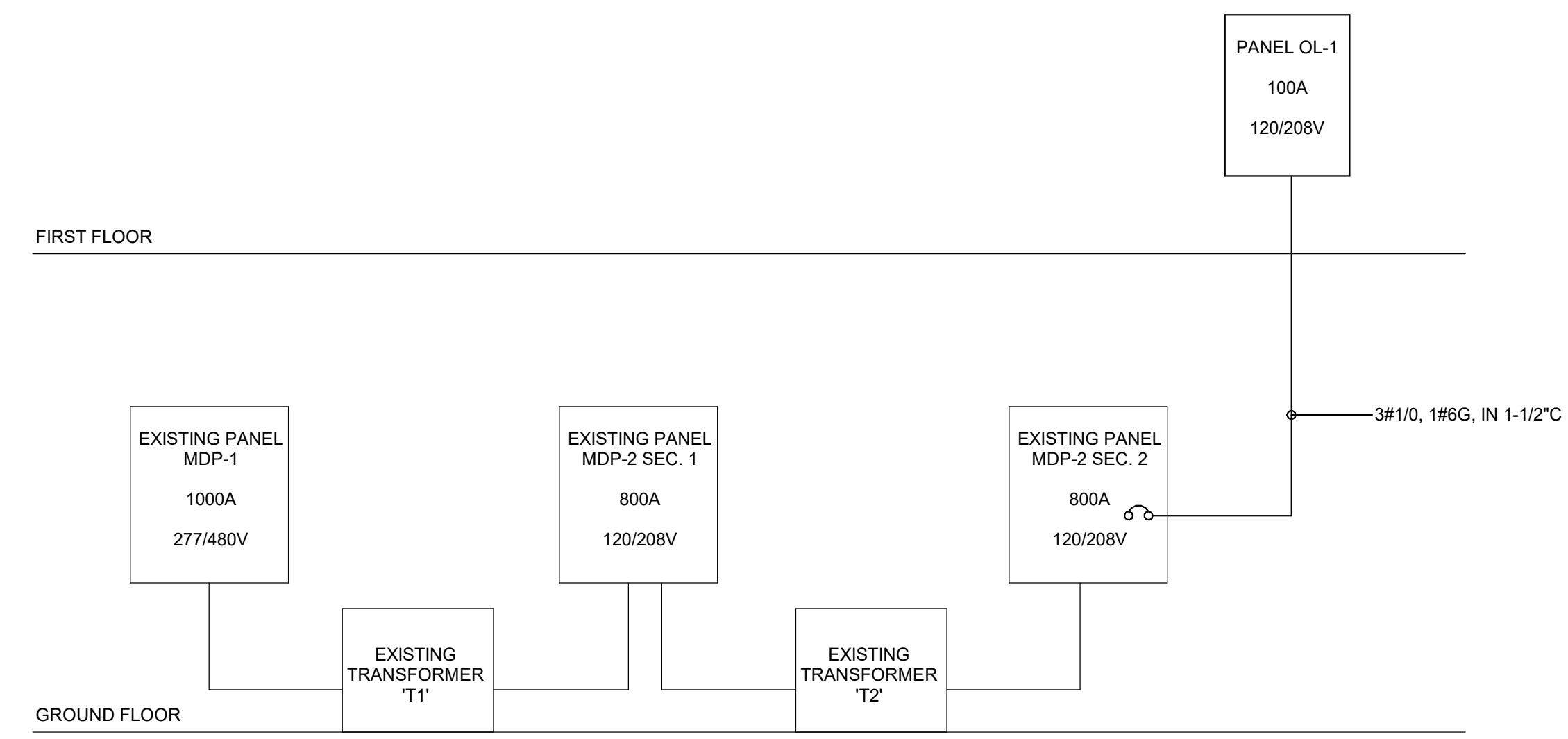
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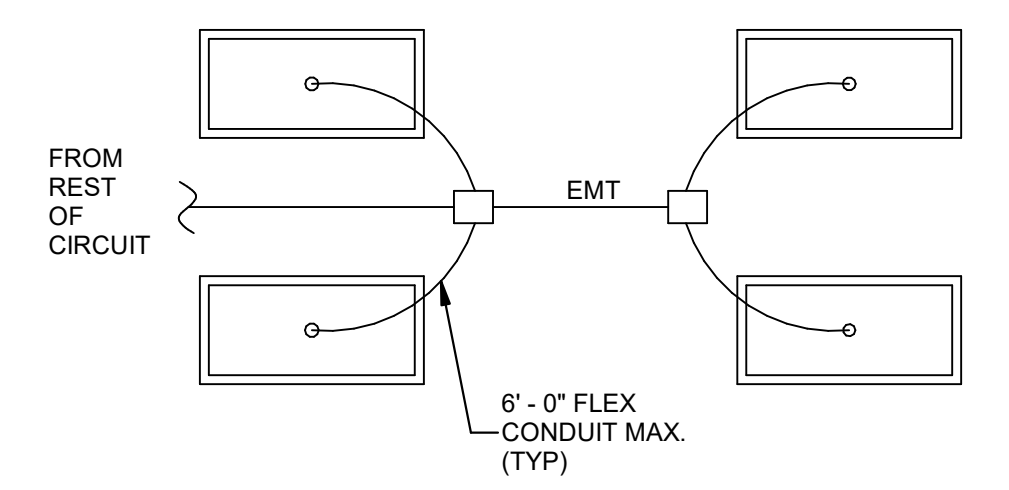


ENLARGED PLANS - ELECTRICAL
 PLOT SCALE: 1/4" = 1'-0"
 FILENAME:
 DATE: 02/09/24

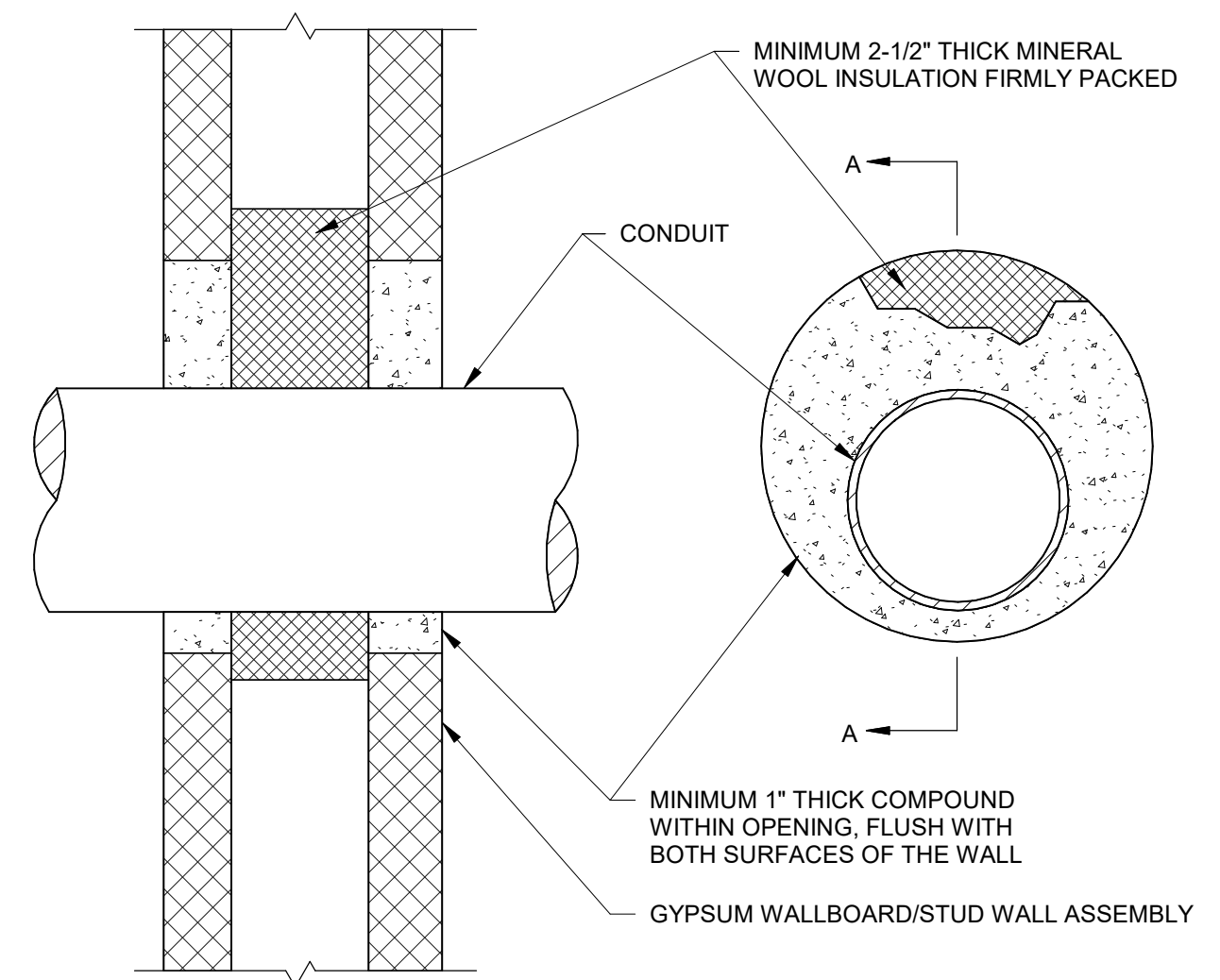
PROJECT
 3378.1
E3.2



1 ELECTRICAL ONE LINE DIAGRAM
 SCALE: NO SCALE

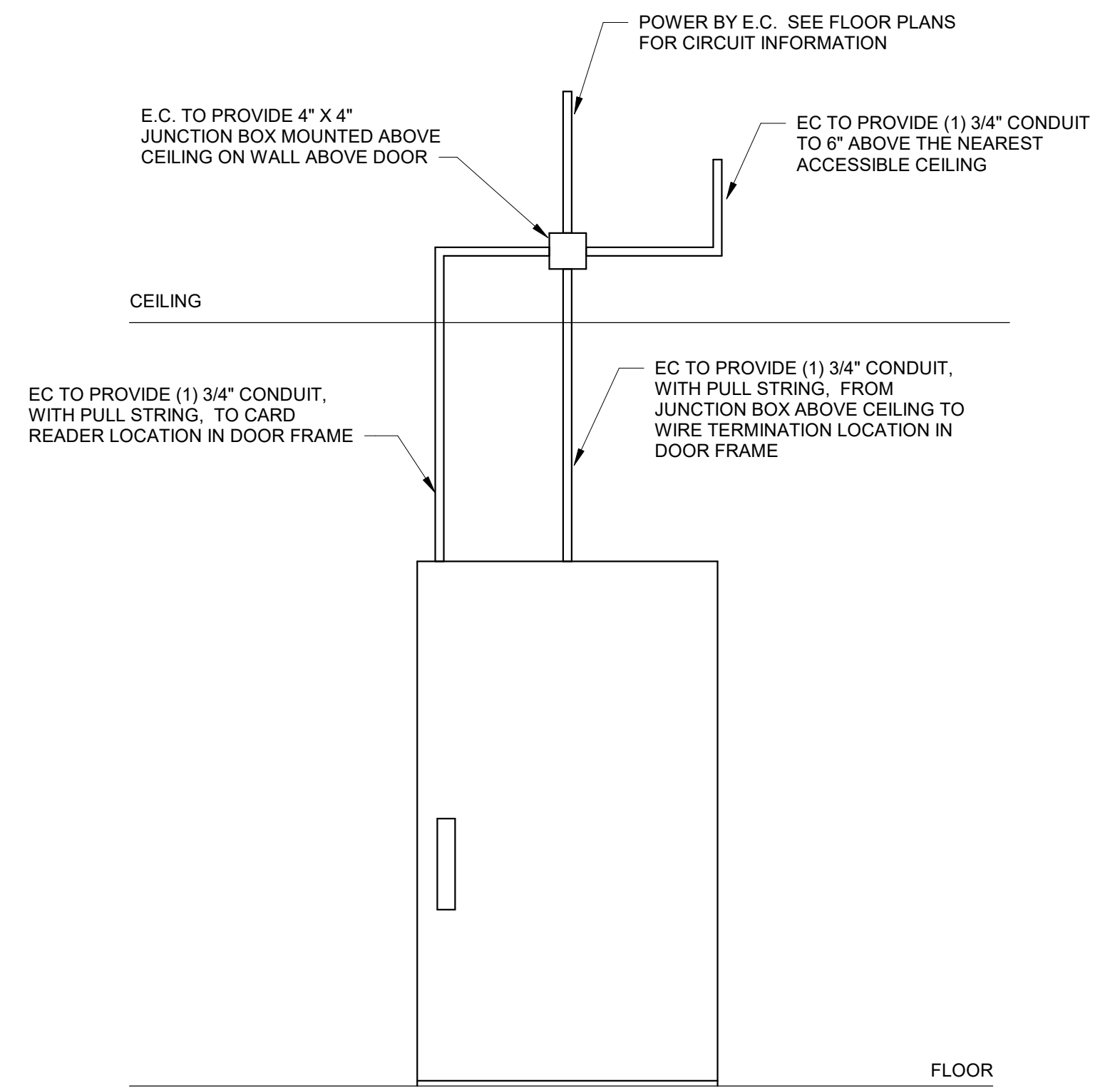


3 TYPICAL LIGHT FIXTURE WIRING
 SCALE: NO SCALE



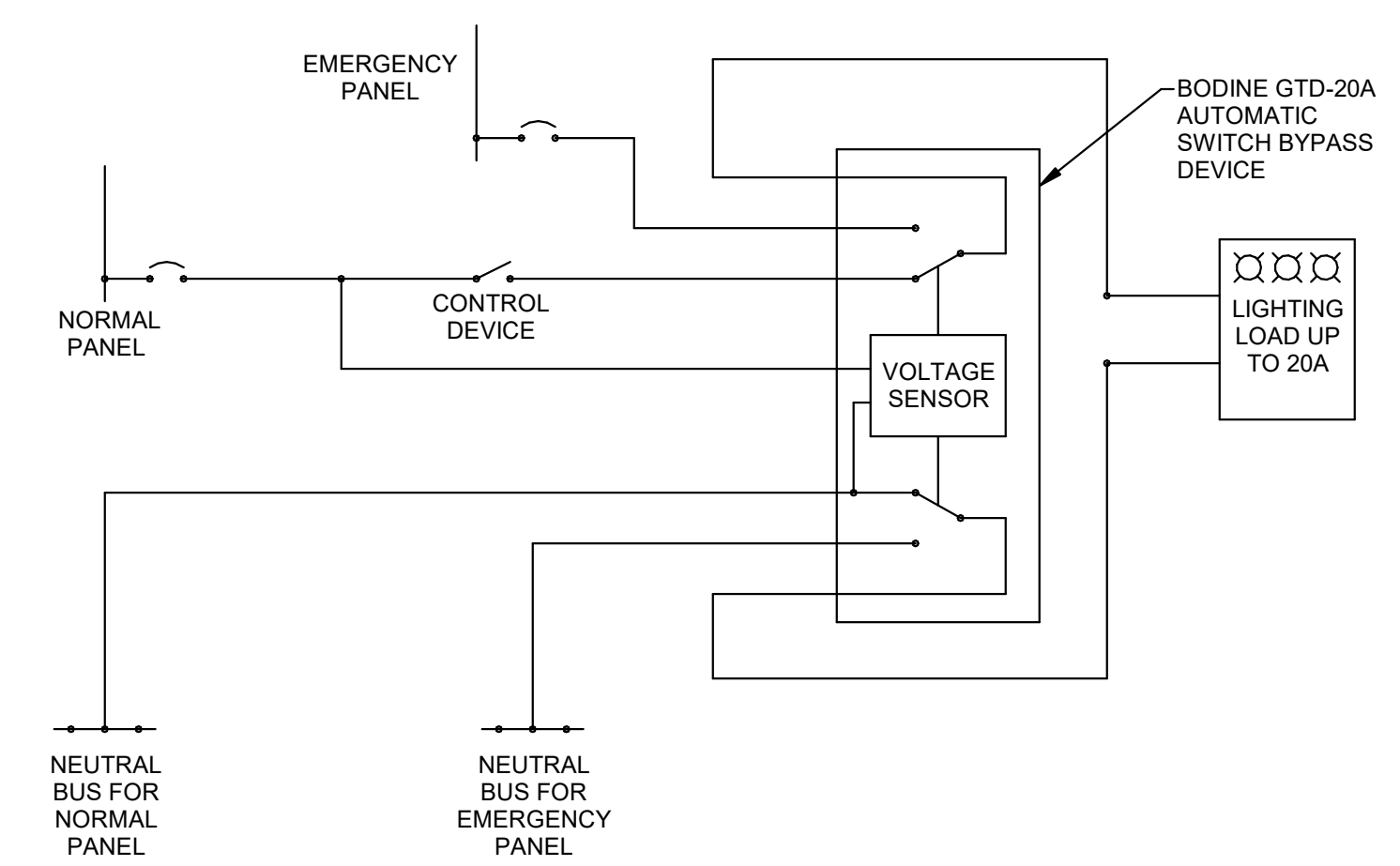
NOTE:
 * MINIMUM 2HR FIRE RATING OF SEALING ASSEMBLY
 * UL SYSTEM W-L-1027

5 WALL CONDUIT PENETRATION - FIRE SEALING
 SCALE: NO SCALE



NOTE:
 E.C. SHALL INSTALL DOOR HARDWARE CABLING SUPPLIED WITH THE DOOR HARDWARE AND PROVIDE FINAL TERMINATIONS. THIS IS A TYPICAL INSTALLATION DETAIL AND MAY VARY SLIGHTLY FROM DOOR HARDWARE SELECTED. COORDINATE ALL CABLE SIZES, CONDUIT TERMINATION LOCATIONS, AND ALL OTHER REQUIREMENTS WITH THE SELECTED HARDWARE PRIOR TO ROUGH IN.

2 DOOR WITH LOCKSET MOUNTED CARD READER
 SCALE: NO SCALE



4 EMERGENCY LIGHTING SWITCH BYPASS DEVICE
 SCALE: NO SCALE

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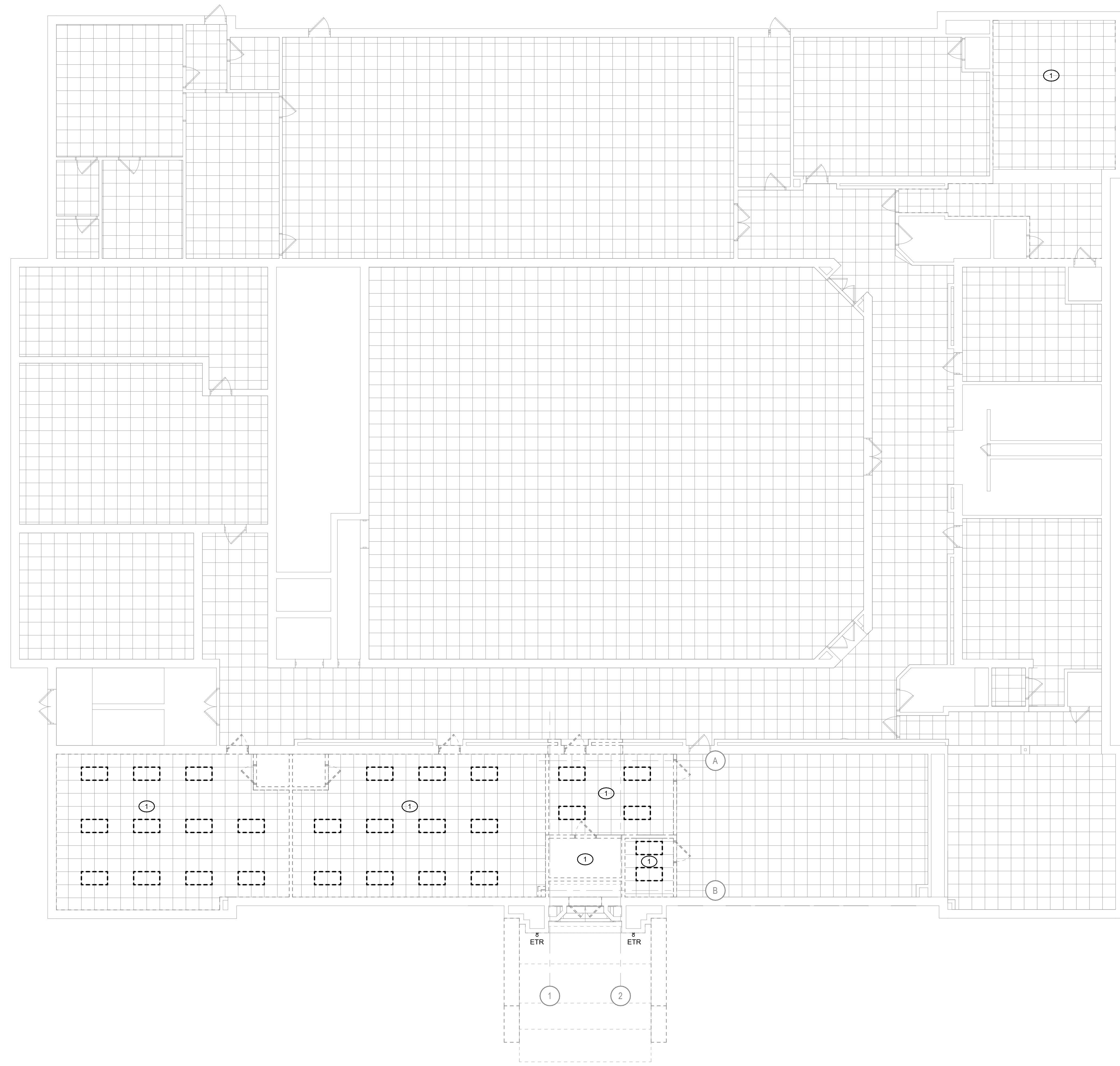
ELECTRICAL DETAILS
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NOTES BY SYMBOL: (7)

(THIS DRAWING ONLY)

- ① ALL LIGHTING FIXTURES AND ASSOCIATED CONTROLS AND WIRING TO BE REMOVED. MAINTAIN EXISTING EMERGENCY LIGHTING CIRCUIT FOR USE IN NEW WORK PHASE



① **FIRST FLOOR PLAN - DEMOLITION - LIGHTING**
 SCALE: 1/8" = 1'-0"

REVISIONS

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FIRST FLOOR PLAN -
 DEMOLITION - LIGHTING

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

FILENAME:

DATE:
 02/09/24

PROJECT
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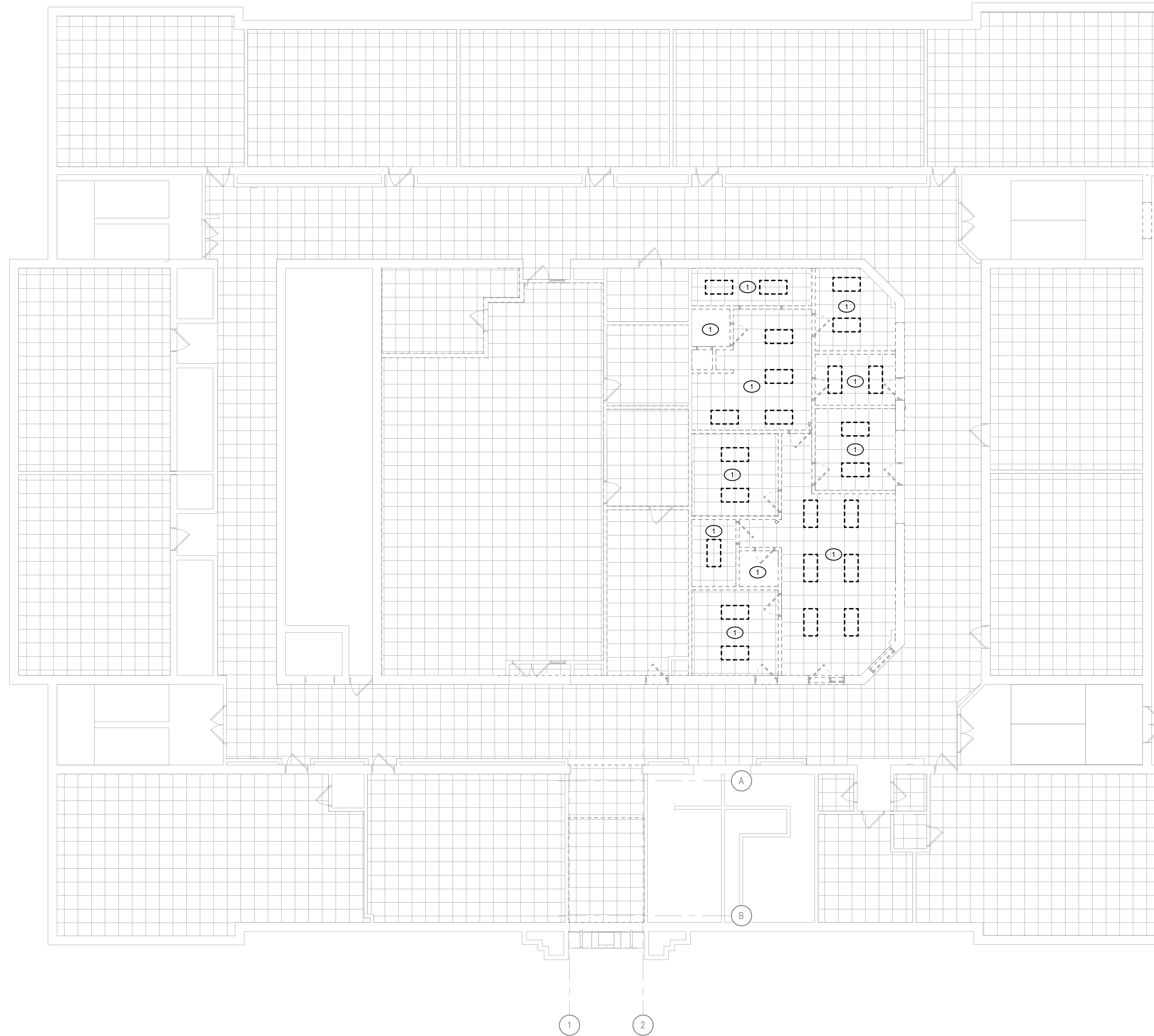
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NOTES BY SYMBOL: ②

(THIS DRAWING ONLY)

- ① ALL LIGHTING FIXTURES AND ASSOCIATED CONTROLS AND WIRING TO BE REMOVED. MAINTAIN EXISTING NORMAL AND EMERGENCY LIGHTING CIRCUIT FOR USE IN NEW WORK PHASE



① SECOND FLOOR PLAN - DEMOLITION - LIGHTING
 SCALE: 1/8" = 1'-0"

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SECOND FLOOR PLAN -
 DEMOLITION - LIGHTING

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

FILENAME:

DATE:
 02/09/24

PROJECT
 3378.1

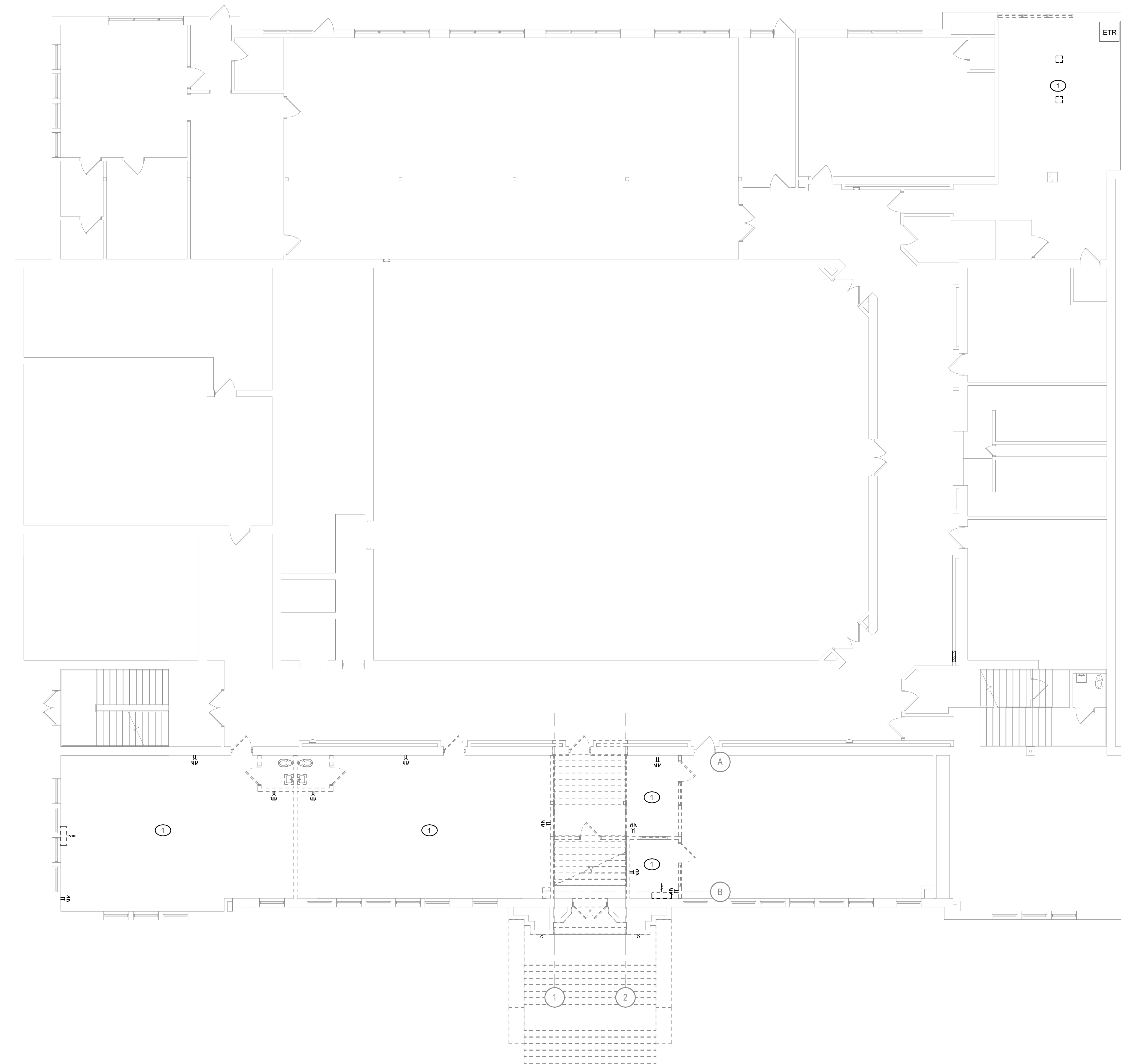
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NOTES BY SYMBOL: (1)

(THIS DRAWING ONLY)

- (1) DETACH AND REMOVE ALL ELECTRICAL DEVICES AND FIXTURES IN ROOMS BACK TO SOURCE UNLESS INDICATED OTHERWISE. EXCLUDING ANY DEVICES ATTACHED TO EXTERIOR WALLS. ANY DEVICES ON EXTERIOR WALLS DETACH EXISTING DEVICE AND REPLACE IN KIND.



(1) FIRST FLOOR PLAN - DEMOLITION - POWER
 SCALE: 1/8" = 1'-0"

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FIRST FLOOR PLAN -
 DEMOLITION - POWER

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

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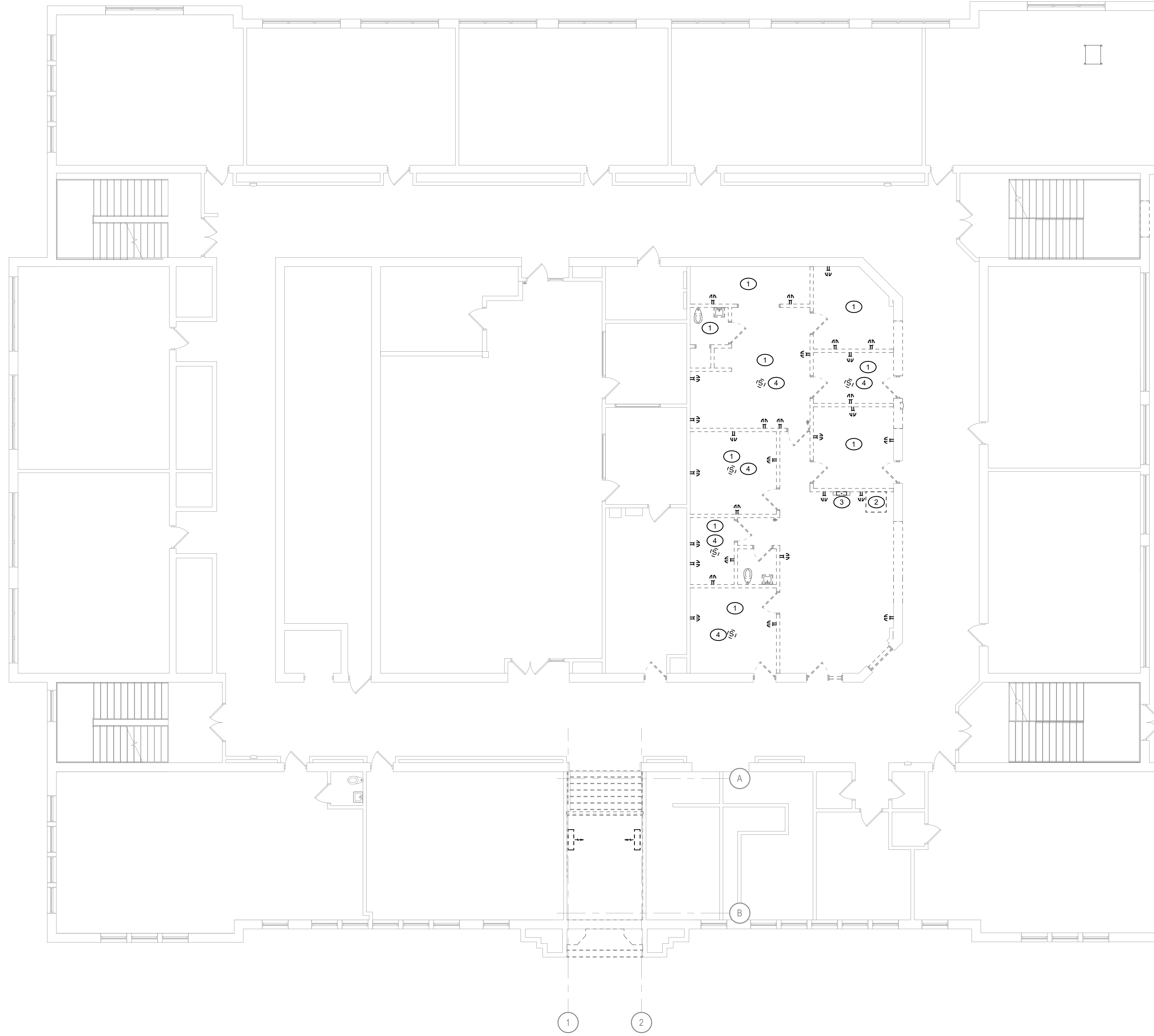
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NOTES BY SYMBOL: (THIS DRAWING ONLY)

- ① DETACH AND REMOVE ALL ELECTRICAL DEVICES AND FIXTURES IN ROOMS BACK TO SOURCE UNLESS INDICATED OTHERWISE.
- ② EXISTING PA SYSTEM TO BE MAINTAINED DURING DEMOLITION, CAP ASSOCIATED WIRING IN CEILING TO USE FOR NEW LOCATION IN NEW WORK PHASE.
- ③ EXISTING FIRE ALARM CONTROL PANEL TO BE RELOCATED, DETACH AND CAP ASSOCIATED WIRING FOR NEW LOCATION IN NEW WORK PHASE.
- ④ DETACH AND REMOVE SPEAKER FROM CEILING, MAINTAIN WIRING FOR SPEAKER FOR USE IN NEW WORK PHASE.



① SECOND FLOOR PLAN - DEMOLITION - POWER
 SCALE: 1/8" = 1'-0"

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SECOND FLOOR PLAN - DEMOLITION - POWER
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