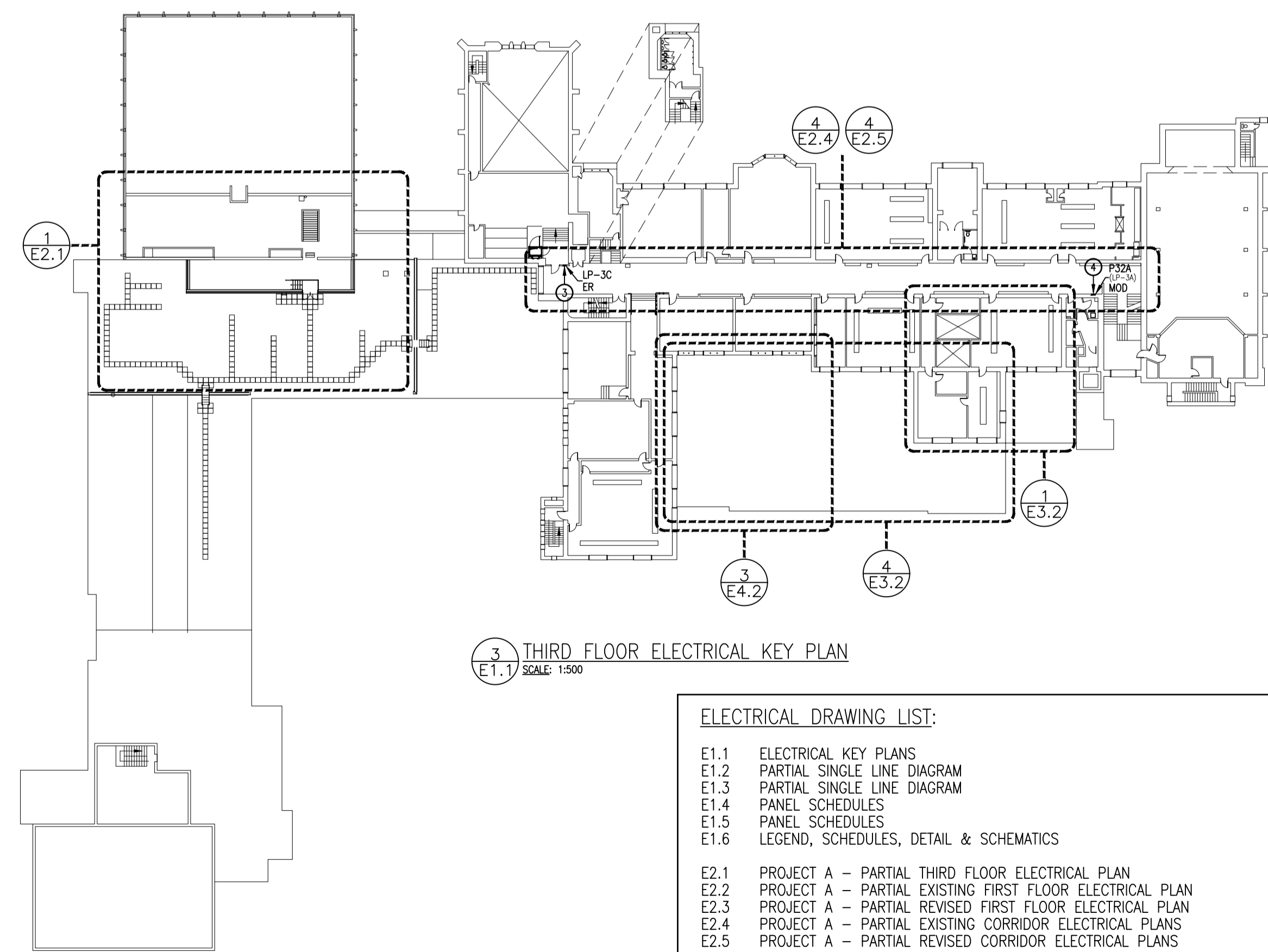
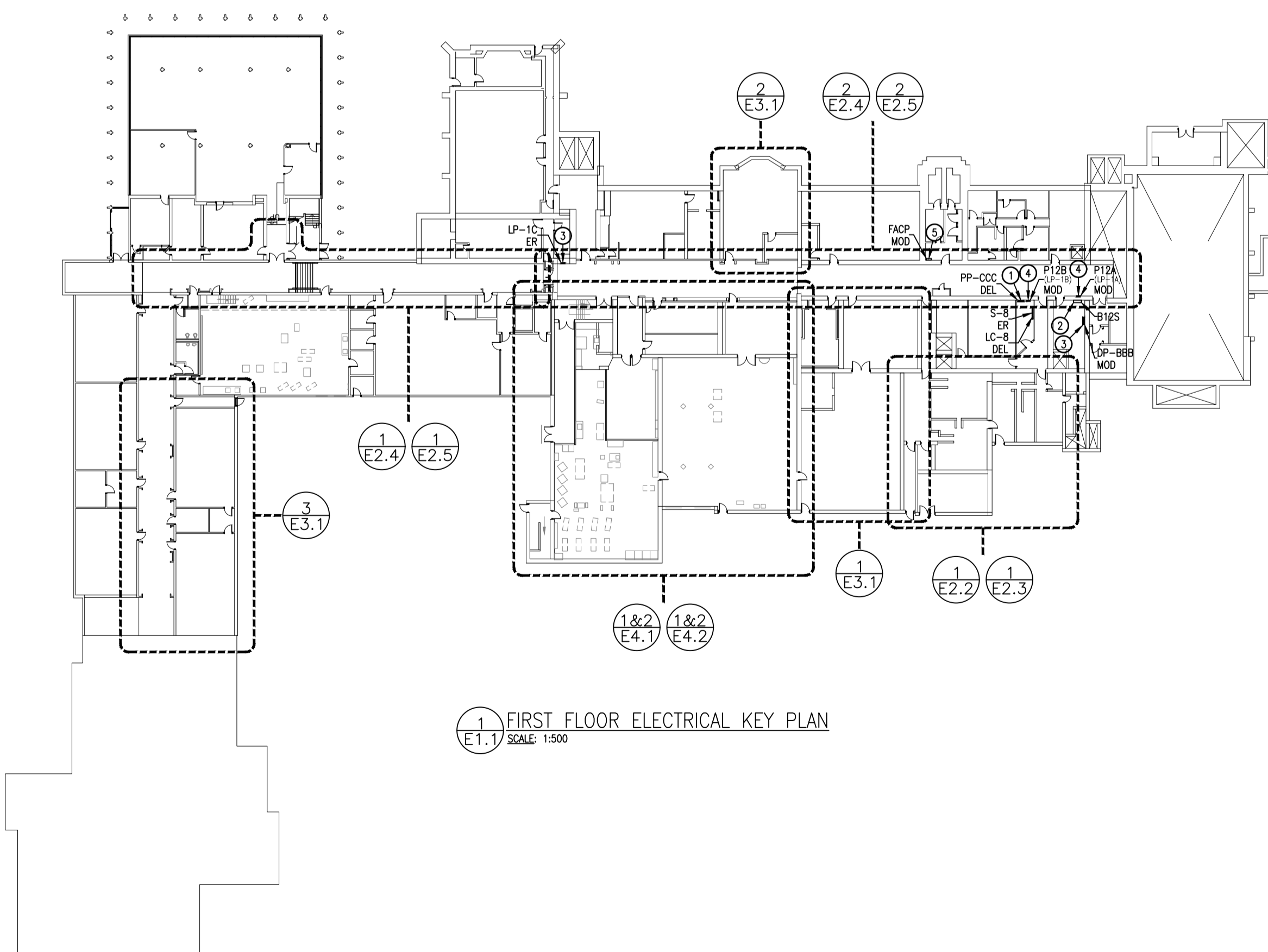
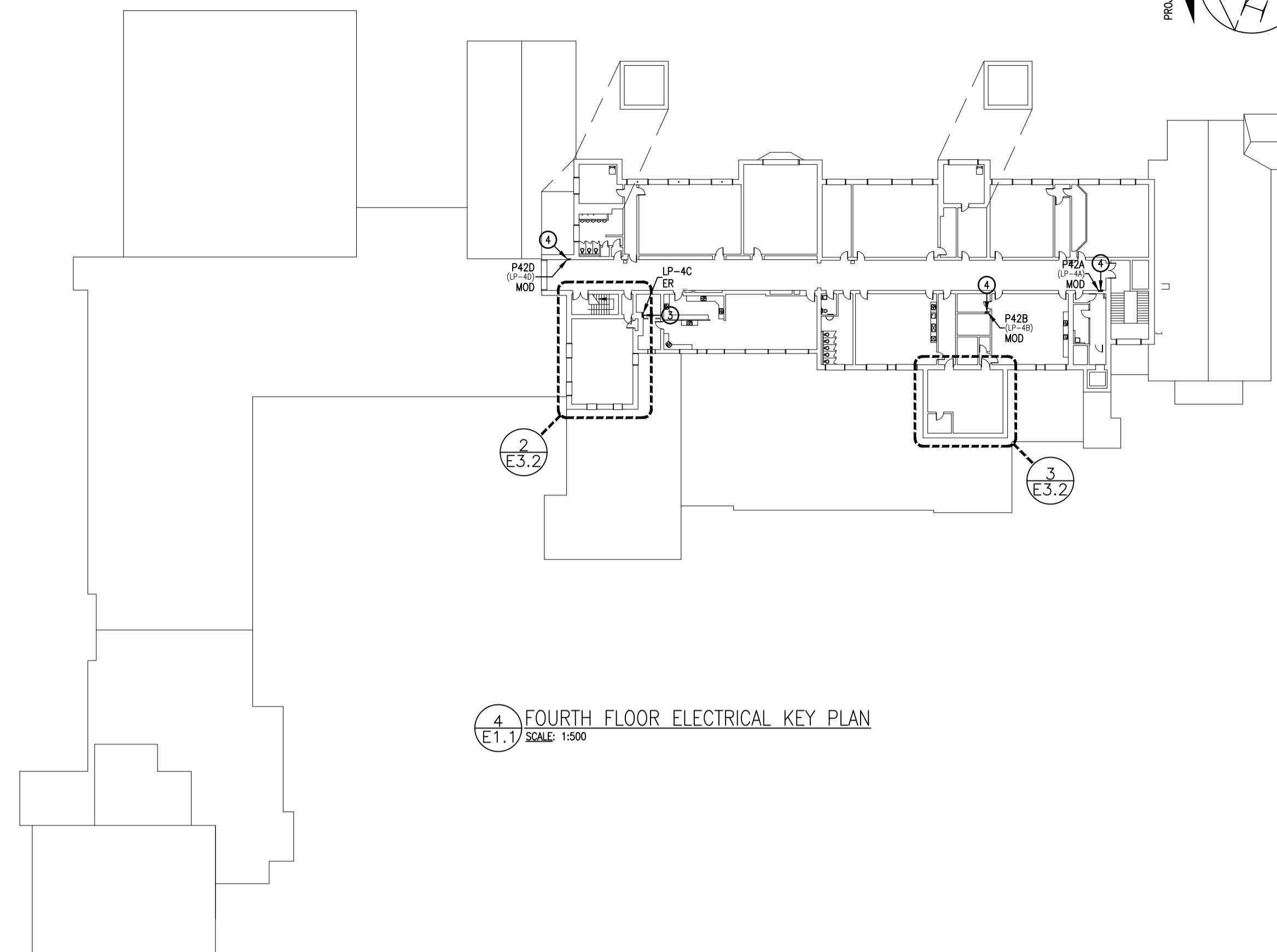
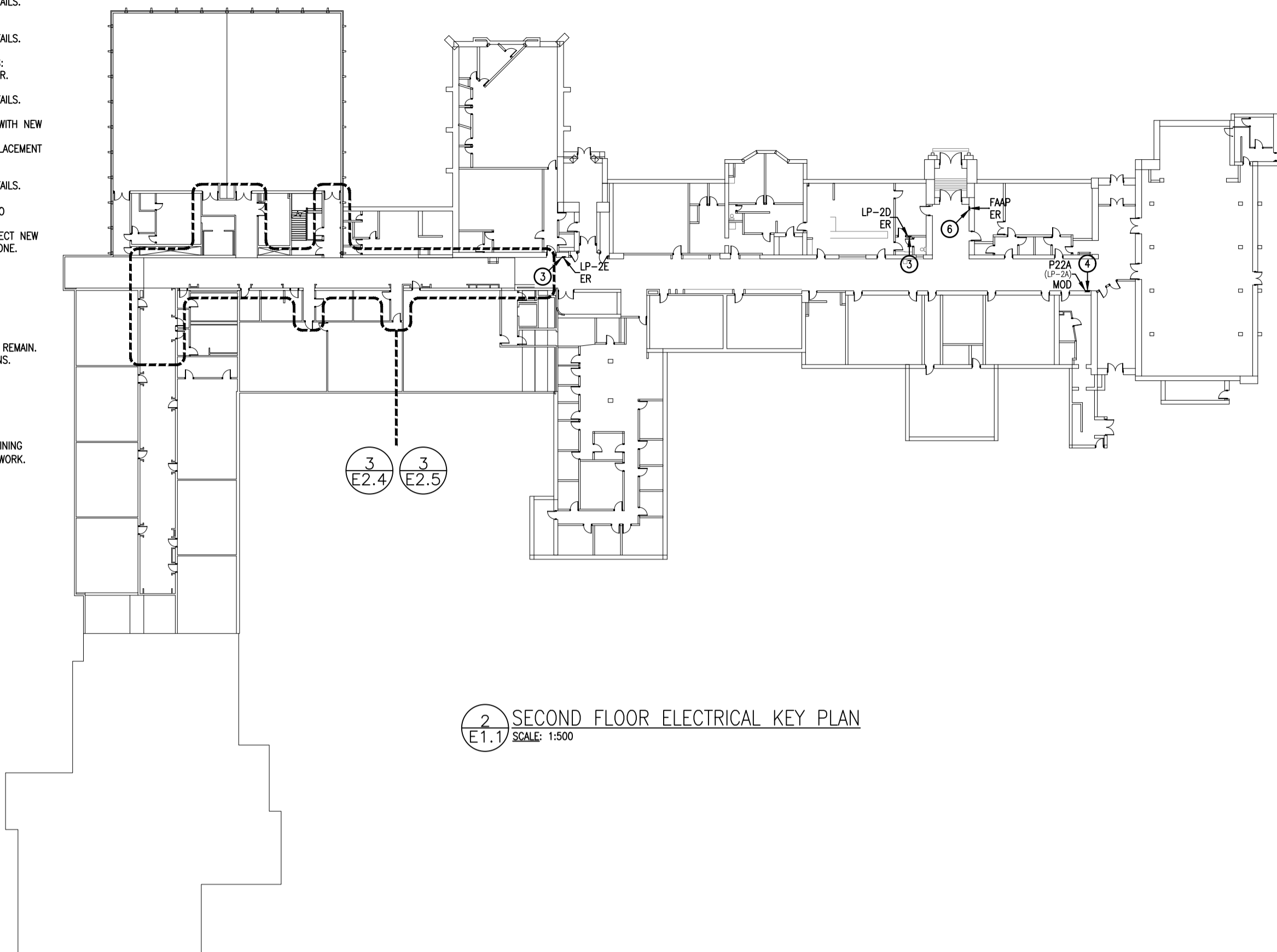


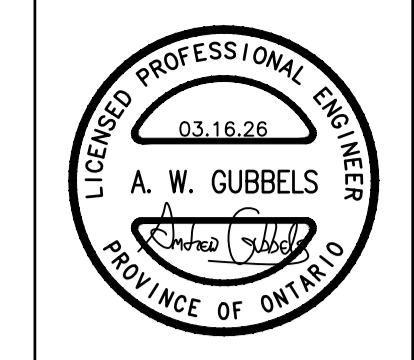
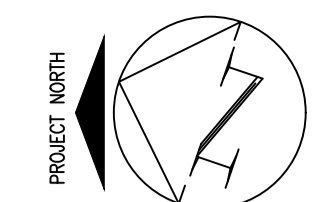
**KEY PLAN NOTES:**

- ① EXISTING DISTRIBUTION PANEL AND ASSOCIATED FEEDER (NOT INDICATED) TO BE DELETED.
  - REFER TO THE SINGLE LINE DIAGRAMS FOR ADDITIONAL DETAILS.
- ② PROVIDE NEW DISTRIBUTION BOARD.
  - REFER TO THE SINGLE LINE DIAGRAMS FOR ADDITIONAL DETAILS.
- ③ EXISTING DISTRIBUTION PANEL TO REMAIN. MODIFY AS FOLLOWS:
  - CUT & PATCH AS REQUIRED TO DELETE ASSOCIATED FEEDER.
  - PROVIDE NEW FEEDER.
  - REFER TO THE SINGLE LINE DIAGRAMS FOR ADDITIONAL DETAILS.
- ④ EXISTING DISTRIBUTION PANEL TO BE REMOVED AND REPLACED WITH NEW IN THE SAME LOCATION.
  - CUT & PATCH AS REQUIRED TO ACCOMMODATE PANEL REPLACEMENT AND DELETION OF ASSOCIATED FEEDER.
  - PROVIDE NEW FEEDER.
  - REFER TO THE SINGLE LINE DIAGRAMS FOR ADDITIONAL DETAILS.
- ⑤ EXISTING EDWARDS EST3 FIRE ALARM CONTROL PANEL (FACP) TO REMAIN. MODIFY AS FOLLOWS:
  - REWORK EXISTING DEVICES AS INDICATED ON PLANS. CONNECT NEW DEVICES TO THE EXISTING LOCAL AREA INITIATING FLOOR ZONE.
  - EXISTING ZONING SHALL GENERALLY REMAIN UNCHANGED.
  - PROVIDE NEW SIGNALING DEVICES AS INDICATED ON PLANS.
  - PROVIDE ADDITIONAL HARDWARE, CIRCUITS, WIRING, ETC. AS REQUIRED.
  - PROVIDE SYSTEM VERIFICATIONS.
  - PROVIDE INTEGRATED SYSTEM TESTING.
- ⑥ EXISTING EDWARDS FIRE ALARM ANNUNCIATOR PANEL (FAP) TO REMAIN. UPDATE ZONING LABELS AS REQUIRED TO REFLECT MODIFICATIONS. ASSOCIATED GRAPHICS TO BE UPDATED BY THE OWNER.

**ABATEMENT:**  
 INCLUDE THE COST OF RETAINING AN OWNER-APPROVED SUBCONTRACTOR FOR THE ABATEMENT OF ALL ASBESTOS CONTAINING MATERIAL (ACM) WITHIN A 600mm RADIUS OF ANY ELECTRICAL WORK. REFER TO THE OWNER'S DESIGNATED SUBSTANCES REPORT.



ELECTRICAL DRAWING LIST:	
E1.1	ELECTRICAL KEY PLANS
E1.2	PARTIAL SINGLE LINE DIAGRAM
E1.3	PARTIAL SINGLE LINE DIAGRAM
E1.4	PANEL SCHEDULES
E1.5	PANEL SCHEDULES
E1.6	LEGEND, SCHEDULES, DETAIL & SCHEMATICS
E2.1	PROJECT A - PARTIAL THIRD FLOOR ELECTRICAL PLAN
E2.2	PROJECT A - PARTIAL EXISTING FIRST FLOOR ELECTRICAL PLAN
E2.3	PROJECT A - PARTIAL EXISTING FIRST FLOOR ELECTRICAL PLAN
E2.4	PROJECT A - PARTIAL EXISTING CORRIDOR ELECTRICAL PLANS
E2.5	PROJECT A - PARTIAL REVISED CORRIDOR ELECTRICAL PLANS
E3.1	PROJECT B - PARTIAL FIRST FLOOR ELECTRICAL PLANS
E3.2	PROJECT B - PARTIAL THIRD/FOURTH FLOORS & ROOF ELECTRICAL PLANS
E4.1	PROJECT C - PARTIAL EXISTING FIRST FLOOR ELECTRICAL PLANS
E4.2	PROJECT C - PARTIAL REVISED FIRST FLOOR & ROOF ELECTRICAL PLANS



**MNE ENGINEERING**

ISSUED FOR BID 226-7860-RFT

2024-03-17

A.W.G.



**Galt Collegiate Institute**

BOILER REPLACEMENT AND HVAC UPGRADES - PHASE 2

**ELECTRICAL KEY PLANS**

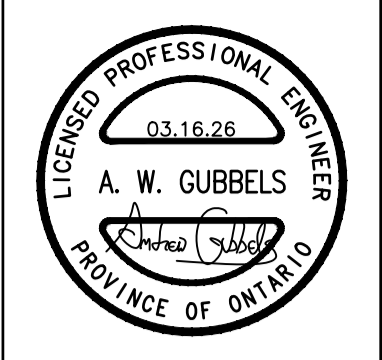
200 WATER STREET NORTH, CAMBRIDGE ON N1R 1H8

Project No.: 23053

Drawn By: J.A.G.

Checked By: A.W.G.

**E1.1**



MNE Engineering Inc.  
22 Keira Place - Box A  
Kitchener, Ontario N2C 2G5  
(519) 894-8408  
www.mneengineering.ca

ISSUED FOR BID 226-7860-RFT



# Galt Collegiate Institute

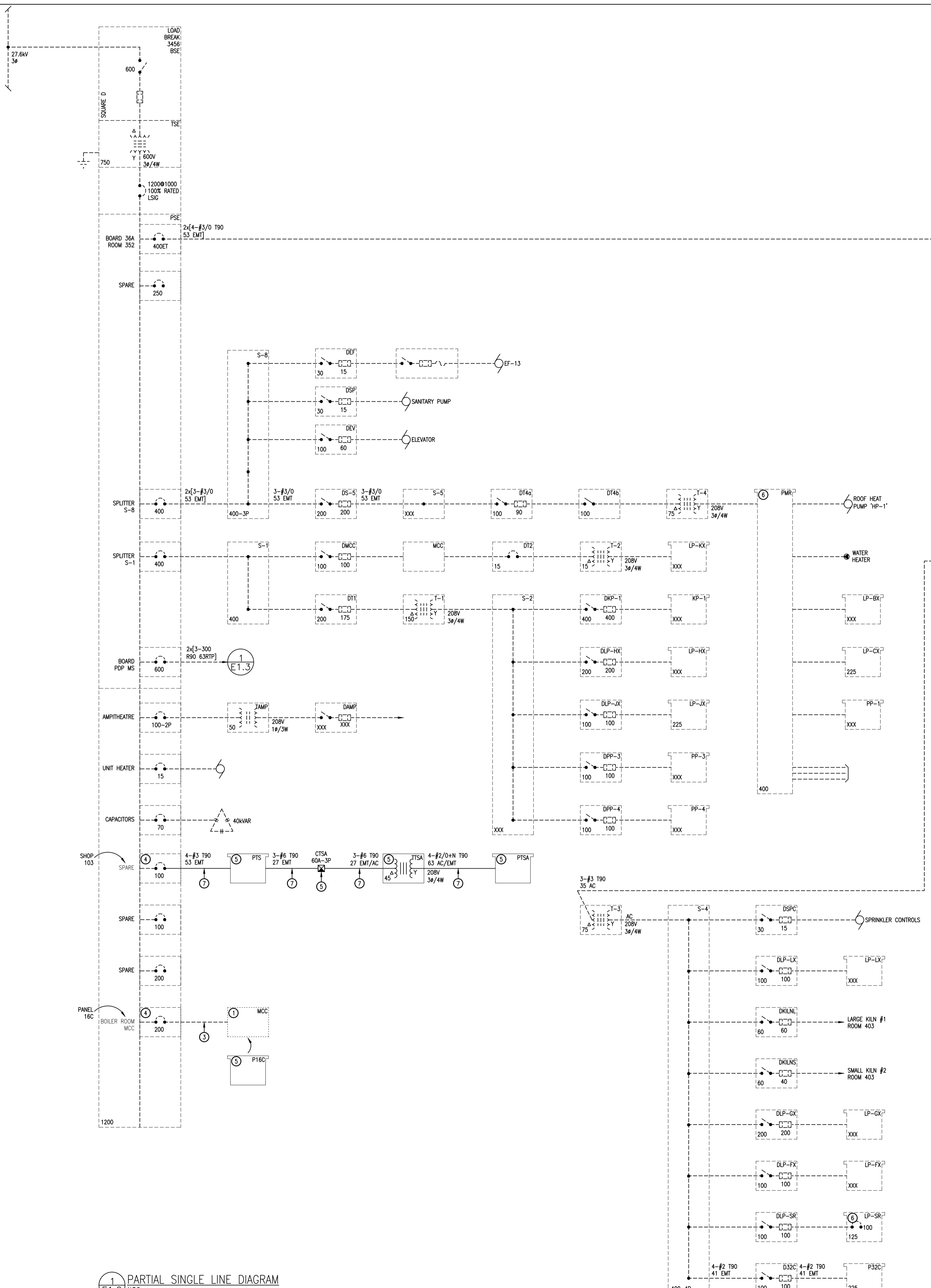
200 WATER STREET NORTH, CAMBRIDGE ON N1R 1H8

## PARTIAL SINGLE LINE DIAGRAM

BOILER REPLACEMENT AND HVAC UPGRADES - PHASE 2

Project No.: 23053  
Drawn By: J.A.G.  
Checked By: A.W.G.

E1.2



### EXISTING BOARD '36A' SCHEDULE

NO.	NOTES	A	P	LOAD DESCRIPTION	#	LOAD DESCRIPTION	P	A	NOTES	NO.
1		25			A		25			2
3	*1.	25	3	ROOFTOP CONDENSING UNIT CU-5A TASSIE HALL	B	ROOFTOP CONDENSING UNIT CU-6A TASSIE HALL	3	25	*1.	4
5		25			C		25			6
7		25			A		25			8
9	*1.	25	3	ROOFTOP CONDENSING UNIT CU-5B TASSIE HALL	B	ROOFTOP CONDENSING UNIT CU-6B TASSIE HALL	3	25	*1.	10
11		25			C		25			12
13		15			A		30			14
15	*2.	15	3	SPARE	B	SPARE	3	30	*2.	16
17		15		SCIENCE LAB FAN	C	EXHAUST FAN EF1	30			18
19		15			A		30			20
21	*1.	15	3	KILN EXHAUST FAN	B		3	30	*1.	22
23		15			C		30			24
25					A					26
27					B					28
29					C					30
31					A					32
33					B					34
35					C					36
37		90			A		50			38
39	*1.	90	3	TRANSFORMER 3 TO SPLITTER 4	B	SPARE	3	50	*1.	40
41		90			C		50			42

\* NOTES:  
1. EXISTING LOAD. BREAKER AND BRANCH WIRING SHALL REMAIN.  
2. DELETED LOAD. BREAKER SHALL REMAIN. DELETE BRANCH WIRING.

LOCATION	MAINS	VOLTAGE	#/WIRE	TYPE	MOUNTING	MAIN BREAKER
CUSTODIAL 352	400A	600/347V	3/4	EXATON PRL4K	FLOOR	N/A

### SINGLE LINE NOTES

- ① DELETE EQUIPMENT.
- ② DELETE FEEDERS (CONDUIT & CONDUCTORS).
- ③ REWORK EXISTING FEEDER AS REQUIRED.
- ④ DELETE LABEL. PROVIDE NEW.
- ⑤ PROVIDE EQUIPMENT.
- ⑥ EXISTING PANEL SHALL REMAIN. REFER TO SCHEDULE FOR MODIFICATIONS.
- ⑦ PROVIDE FEEDERS.

**DESIGNATIONS:**  
EQUIPMENT & FEEDERS (CONDUCTOR & CONDUIT) WITHOUT DESIGNATION ARE EXISTING TO REMAIN.

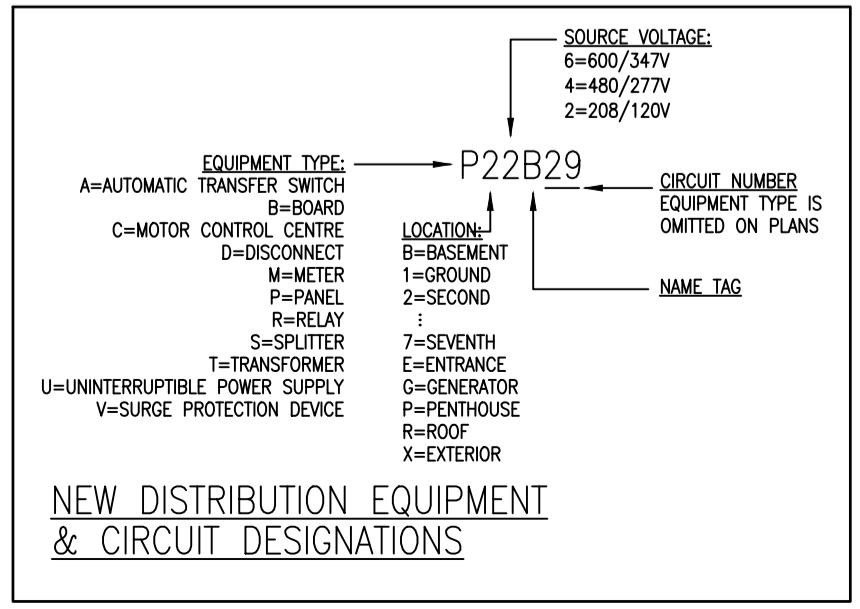
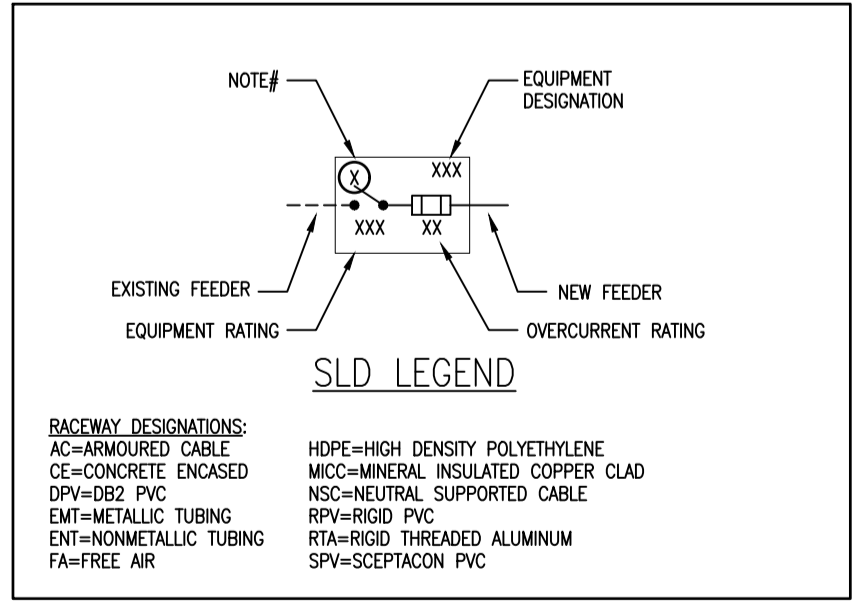
**EXISTING FEEDERS:**  
FEEDER & OVER CURRENT SIZES ARE BASED ON ARCHIVED INFORMATION. VERIFY ALL AFFECTED & CLEARLY INDICATE ON THE AS-BUILT DRAWINGS.

**MEGGER TEST:**  
TEST ALL MODIFIED & NEW FEEDERS.

**GROUNDING & BONDING:**  
PROVIDE GROUNDING & BONDING IN ACCORDANCE WITH ELECTRICAL SAFETY AUTHORITY REQUIREMENTS.

**INFORMATION UPDATE:**  
PROVIDE A LAMINATED HARD COPY OF THE SINGLE LINE DIAGRAM & POST ON SITE. ELECTRONIC BASE PLANS WILL BE PROVIDED BY THE CONSULTANT.

- DISTRIBUTION PANEL REPLACEMENTS:**  
IN GENERAL, ALL EXISTING PANELS BEING REPLACED SHALL REQUIRE THE FOLLOWING:
- DISCONNECT EXISTING FEEDERS & BRANCH WIRING.
  - REWORK EXISTING CONDUITS AS REQUIRED.
  - REMOVE EXISTING TUB, INTERIOR, BREAKERS & TRIM.
  - RELOCATE ADJACENT BOXES AND WIRING DEVICES WHERE APPLICABLE.
  - CUT & PATCH EXISTING BUILDING CONSTRUCTION AS REQUIRED.
  - INSTALL NEW TUB, INTERIOR, BREAKERS & TRIM.
  - CONNECT EXISTING FEEDERS & BRANCH WIRING. EXTEND EXISTING FEEDERS AND BRANCH WIRING WHERE REQUIRED.
  - PROVIDE DIGITAL PHOTO OF THE INSTALLED PANEL WITH THE COVER OFF.
  - PROVIDE TYPED PANEL DIRECTORY.
  - PROVIDE NEW NAMEPLATE AS SPECIFIED.
  - UPDATE LABELS ON CONNECTED WIRING DEVICE TAGS (IF APPLICABLE).



E1.2 PARTIAL SINGLE LINE DIAGRAM



NEW PANEL '12A' SCHEDULE										
NO.	NOTES	A	P	LOAD DESCRIPTION	#	LOAD DESCRIPTION	P	A	NOTES	NO.
1	*1.	15	1		A		1	15	*1.	2
3	*1.	15	1		B		1	15	*1.	4
5	*1.	15	1		C		1	15	*1.	6
7	*1.	15	1		A		1	15	*1.	8
9	*1.	15	1		B		1	15	*1.	10
11	*1.	15	1		C		1	15	*1.	12
13	*1.	15	1		A		1	15	*1.	14
15	*1.	15	1		B		1	15	*1.	16
17	*1.	15	1		C		1	15	*1.	18
19	*1.	15	1		A		1	15	*1.	20
21					B					22
23	*3.	20	1	LITG. BOILER ROOM	C					24
25	*3.	20	1	LITG. NIGHT & EMERG. BOILER ROOM	A					26
27	*3.	20	1	RECEPT. BOILER ROOM	B					28
29	*3.	15	1	UNIT HEATER 'UH-3' - 161	C					30
31	*3.	15	1	UNIT HEATER 'UH-4' - 167	A	SPARE	1	15	*3.	32
33	*3.	15	1	MECHANICAL POWER SUPPLY - 167	B	SPARE	1	15	*3.	34
35					C	SPARE	1	15	*3.	36
37					A	SPARE	1	20	*3.	38
39					B	SPARE	1	20	*3.	40
41					C	SPARE	1	20	*3.	42
* NOTES: 1. EXISTING LOAD FROM DELETED 'LP-1A'. PROVIDE BREAKER, EXTEND & RECONNECT BRANCH WIRE. TRACE ALL BRANCH WIRING TO PROVIDE ACCURATE CIRCUIT LABEL. 2. NOT USED. 3. NEW LOAD. PROVIDE BREAKER & BRANCH WIRING (WHERE APPLICABLE). 4. NOT USED. 5. NOT USED.					OPTIONS: TOP FEEDS 200% RATED NEUTRAL					
LOCATION	MAINS	VOLTAGE	#/WIRE	TYPE	MOUNTING	MAIN BREAKER				
CORRIDOR 8101A	225A	208/120V	3/4	EATON PRL1X	FLUSH	N/A				

NEW PANEL '12B' SCHEDULE										
NO.	NOTES	A	P	LOAD DESCRIPTION	#	LOAD DESCRIPTION	P	A	NOTES	NO.
1	*1.	15	1		A		1	15	*1.	2
3	*1.	15	1		B		1	15	*1.	4
5	*1.	15	1		C		1	15	*1.	6
7	*1.	15	1		A		1	15	*1.	8
9	*1.	15	1		B		1	15	*1.	10
11	*1.	15	1		C		1	15	*1.	12
13	*1.	15	1		A		1	20	*1.	14
15					B		1	30	*1.	16
17	*1.	20	3		C		1	15	*1.	18
19					A		1	15	*1.	20
21	*1.	15	1		B		1	15	*1.	22
23	*1.	15	1		C		1	15	*1.	24
25	*1.	15	1		A		1	15	*1.	26
27	*1.	30	1		B		1	15	*1.	28
29					C		1	15	*1.	30
31	*1.	30	3		A	SPARE	1	15	*1.	32
33					B		2	30	*1.	34
35	*1.	15	1		C		2	30		36
37	*1.	15	1		A	SPARE	2	15	*1,4.	38
39	*1.	15	1		B		2	15		40
41	*1.	30	1		C		1	20	*3.	42
43	*2,4.	20	1		A					44
45					B					46
47	*3.	15	2	INDOOR HEAT PUMP UNIT - 101 'HVAC-4'	C					48
49					A	SPARE	1	15	*3.	50
51	*3.	20	2	OUTDOOR HEAT PUMP UNIT - 101 'HVAC-4'	B	SPARE	1	15	*3.	52
53					C	SPARE	1	15	*3.	54
55	*3.	20	1	RECIRC. PUMP 'P-15' - 101	A	SPARE	1	20	*3.	56
57	*3.	15	1	MECHANICAL POWER SUPPLY - 101	B	SPARE	1	20	*3.	58
59					C	SPARE	1	20	*3.	60
* NOTES: 1. EXISTING LOAD FROM DELETED 'LP-1B'. PROVIDE BREAKER, EXTEND & RECONNECT BRANCH WIRE. TRACE ALL BRANCH WIRING TO PROVIDE ACCURATE CIRCUIT LABEL. 2. EXISTING LOAD FROM DELETED 'LC-8'. PROVIDE BREAKER, EXTEND & RECONNECT BRANCH WIRE. TRACE ALL BRANCH WIRING TO PROVIDE ACCURATE CIRCUIT LABEL. 3. NEW LOAD. PROVIDE BREAKER & BRANCH WIRING (WHERE APPLICABLE). 4. FIELD CONFIRM AMPACITY. 5. NOT USED.					OPTIONS: TOP FEEDS DRIP SHIELD 200% RATED NEUTRAL					
LOCATION	MAINS	VOLTAGE	#/WIRE	TYPE	MOUNTING	MAIN BREAKER				
ELECTRICAL ROOM 163	225A	208/120V	3/4	EATON PRL1X	SURFACE	N/A				

NEW PANEL '12D' SCHEDULE										
NO.	NOTES	A	P	LOAD DESCRIPTION	#	LOAD DESCRIPTION	P	A	NOTES	NO.
1	*3.	20	1	RECEPT. P12D	A		1	15	*1.	2
3	*1.	15	1		B					4
5	*1.	15	1		C		1	15	*1.	6
7	*1.	15	1		A		2	15	*1.	8
9	*1.	15	2		B		2	15		10
11					C		2	30	*1.	12
13	*1.	15	1		A		3	30		14
15	*1.	15	1		B		1	15	*1.	16
17	*1.	15	1		C		1	15	*1.	18
19	*1.	15	1		A		1	15	*1.	20
21	*1.	15	1		B		1	20	*1.	22
23					C					24
25	*3.	30	2	HEAT PUMP UNIT - 104 'UV-4'	A					26
27					B					28
29	*3.	15	1	MECHANICAL POWER SUPPLY - 104	C					30
31					A	SPARE	1	15	*3.	32
33					B	SPARE	1	15	*3.	34
35					C	SPARE	1	15	*3.	36
37					A	SPARE	1	20	*3.	38
39					B	SPARE	1	20	*3.	40
41					C	SPARE	1	20	*3.	42
* NOTES: 1. EXISTING LOAD FROM DELETED 'LP-1E'. PROVIDE BREAKER, EXTEND & RECONNECT BRANCH WIRE. TRACE ALL BRANCH WIRING TO PROVIDE ACCURATE CIRCUIT LABEL. 2. NOT USED. 3. NEW LOAD. PROVIDE BREAKER & BRANCH WIRING (WHERE APPLICABLE). 4. NOT USED. 5. NOT USED.					OPTIONS: TOP FEEDS DRIP SHIELD 200% RATED NEUTRAL					
LOCATION	MAINS	VOLTAGE	#/WIRE	TYPE	MOUNTING	MAIN BREAKER				
CLASSROOM 104	225A	208/120V	3/4	EATON PRL1X	SURFACE	N/A				

NEW PANEL '22A' SCHEDULE										
NO.	NOTES	A	P	LOAD DESCRIPTION	#	LOAD DESCRIPTION	P	A	NOTES	NO.
1	*1.	15	1		A		1	15	*1.	2
3	*1.	15	1		B		1	15	*1.	4
5	*1.	15	1		C		1	15	*1.	6
7	*1.	15	1		A		1	15	*1.	8
9	*1.	15	1		B		1	15	*1.	10
11	*1.	15	1		C		1	15	*1.	12
13	*1.	15	1		A		1	15	*1.	14
15	*1.	15	1		B		1	15	*1.	16
17	*1.	15	1		C		1	15	*1.	18
19					A					20
21					B					22
23					C					24
25					A					26
27					B					28
29					C					30
31					A	SPARE	1	15	*3.	32
33					B	SPARE	1	15	*3.	34
35					C	SPARE	1	15	*3.	36
37					A	SPARE	1	20	*3.	38
39					B	SPARE	1	20	*3.	40
41					C	SPARE	1	20	*3.	42
* NOTES: 1. EXISTING LOAD FROM DELETED 'LP-2A'. PROVIDE BREAKER, EXTEND & RECONNECT BRANCH WIRE. TRACE ALL BRANCH WIRING TO PROVIDE ACCURATE CIRCUIT LABEL. 2. NOT USED. 3. NEW LOAD. PROVIDE BREAKER & BRANCH WIRING (WHERE APPLICABLE). 4. NOT USED. 5. NOT USED.					OPTIONS: LOCKABLE DOOR BOTTOM FEEDS 200% RATED NEUTRAL					
LOCATION	MAINS	VOLTAGE	#/WIRE	TYPE	MOUNTING	MAIN BREAKER				
CORRIDOR 8206A	225A	208/120V	3/4	EATON PRL1X	FLUSH	N/A				

NEW PANEL '32A' SCHEDULE										
NO.	NOTES	A	P	LOAD DESCRIPTION	#	LOAD DESCRIPTION	P	A	NOTES	NO.
1	*1.	15	1		A		1	15	*1.	2
3	*1.	15	1		B		1	15	*1.	4
5	*1.	15	1		C		1	15	*1.	6
7	*1.	15	1		A		1	15	*1.	8
9	*1.	15	1		B		1	15	*1.	10
11	*1.	15	1		C		1	15	*1.	12
13	*1.	15	1		A		1	15	*1.	14
15	*1.	15	1		B		1	15	*1.	16
17	*1.	15	1		C		1	15	*1.	18
19	*1.	15	1		A		1	15	*1.	20
21	*1.	15	1		B		1	15	*1.	22
23	*1.	15	1		C		1	15	*1.	24
25	*1.	15	1		A		1	15	*1.	26
27					B					28
29					C					30
31					A	SPARE	1	15	*3.	32
33					B	SPARE	1	15	*3.	34
35					C	SPARE	1	15	*3.	36
37					A	SPARE	1	20	*3.	38
39					B	SPARE	1	20	*3.	40
41					C	SPARE	1	20	*3.	42
* NOTES: 1. EXISTING LOAD FROM DELETED 'LP-3A'. PROVIDE BREAKER, EXTEND & RECONNECT BRANCH WIRE. TRACE ALL BRANCH WIRING TO PROVIDE ACCURATE CIRCUIT LABEL. 2. NOT USED. 3. NEW LOAD. PROVIDE BREAKER & BRANCH WIRING (WHERE APPLICABLE). 4. NOT USED. 5. NOT USED.					OPTIONS: BOTTOM FEEDS 200% RATED NEUTRAL					
LOCATION	MAINS	VOLTAGE	#/WIRE	TYPE	MOUNTING	MAIN BREAKER				
CORRIDOR 8302	225A	208/120V	3/4	EATON PRL1X	FLUSH	N/A				

NEW PANEL '42A' SCHEDULE										
NO.	NOTES	A	P	LOAD DESCRIPTION	#	LOAD DESCRIPTION	P	A	NOTES	NO.
1	*1.	15	1		A		1	15	*1.	2
3	*1.	15	1		B		1	15	*1.	4
5	*1.	15	1		C		1	15	*1.	6
7	*1.	15	1		A		1	15	*1.	8
9	*1.	15	1		B		1	15	*1.	10
11	*1.	15	1		C		1	15	*1.	12
13	*1.	15	1		A		1	15	*1.	14
15	*1.	15	1		B		1	15	*1.	16
17	*1.	20	1		C		1	15	*1.	18
19	*1.	15	1		A		1	15	*1.	20
21	*1.	15	2		B		1	15	*1.	22
23	*1.	15	2		C		1	15	*1.	24
25	*1.	15	1		A		2	15	*1.	26
27	*1.	15	1		B		2	15		28
29	*1.	15	1		C		1	15	*1.	30
31	*1.	15	2		A	SPARE	1	15	*1.	32
33					B	SPARE				34
35					C	SPARE	1	15	*3.	36
37					A	SPARE	1	15	*3.	38
39					B	SPARE	1	20	*3.	40
41					C	SPARE	1	20	*3.	42
* NOTES: 1. EXISTING LOAD FROM DELETED 'LP-4A'. PROVIDE BREAKER, EXTEND & RECONNECT BRANCH WIRE. TRACE ALL BRANCH WIRING TO PROVIDE ACCURATE CIRCUIT LABEL. 2. NOT USED. 3. NEW LOAD. PROVIDE BREAKER & BRANCH WIRING (WHERE APPLICABLE). 4. NOT USED. 5. NOT USED.					OPTIONS: BOTTOM FEEDS 200% RATED NEUTRAL					
LOCATION	MAINS	VOLTAGE	#/WIRE	TYPE	MOUNTING	MAIN BREAKER				
CORRIDOR 8404	225A	208/120V	3/4	EATON PRL1X	FLUSH	N/A				

NEW PANEL '42B' SCHEDULE										
NO.	NOTES	A	P	LOAD DESCRIPTION	#	LOAD DESCRIPTION	P	A	NOTES	NO.
1	*1.	15	1		A		1	15	*1.	2
3	*1.	15	1		B		1	15	*1.	4
5	*1.	15	1		C		1	15	*1.	6
7	*1.	15								

NEW PANEL '16C' SCHEDULE										
NO.	NOTES	A	P	LOAD DESCRIPTION	#	LOAD DESCRIPTION	P	A	NOTES	NO.
1		40			A			15		2
3	*1,4.	40	3	SUPPLY FAN	B	RETURN FAN	3	15	*1,4.	4
5		40			C			15		6
7		15			A			15		8
9	*1,4.	15	3	W.R. EXHAUST FAN	B	SHOP AIR COMPRESSOR	3	15	*1,4.	10
11		15			C			15		12
13		15			A			15		14
15	*3.	15	3	ZONE PUMP (1906/1923 ADDITION PERIMETER HEAT 'P-8')	B	ZONE PUMP (1906/1923 ADDITION PERIMETER HEAT 'P-9')	3	15	*3.	16
17		15			C			15		18
19		15			A			15		20
21	*3.	15	3	ZONE PUMP (1906/1923 ADDITION UNIT VENTILATORS 'P-10')	B	HV-3 HEATING COIL RECIRC. PUMP 'P-11'	3	15	*3.	22
23		15			C			15		24
25					A					26
27					B					28
29					C					30
31					A					32
33					B					34
35					C					36
37		50			A					38
39	*3.	50	3	SPARE	B					40
41		50			C					42

\* NOTES:  
1. EXISTING LOAD FROM DELETED 'MCC'. PROVIDE BREAKER, EXTEND & RECONNECT BRANCH WIRE. TRACE ALL BRANCH WIRING TO PROVIDE ACCURATE CIRCUIT LABEL.  
2. NOT USED.  
3. NEW LOAD. PROVIDE BREAKER & BRANCH WIRING (WHERE APPLICABLE).  
4. FIELD CONFIRM AMPACITY.  
5. NOT USED.

OPTIONS:  
TOP FEEDS  
DRIP SHIELD  
31X BREAKER SPACE  
1524 TUB HEIGHT

LOCATION	MAINS	VOLTAGE	#/WIRE	TYPE	MOUNTING	MAIN BREAKER
BOILER ROOM 167	225A	600V	3/4	EATON PRL1X	SURFACE	N/A

EXISTING PANEL 'MR' SCHEDULE (*1.)										
NO.	NOTES	A	P	LOAD DESCRIPTION	#	LOAD DESCRIPTION	P	A	NOTES	NO.
1		15	2	HEAT PUMP 'HP-1' CONTROL BOX	A			100		2
3		15			B	DISTRIBUTION PANEL 'LP-BX'	3	100	*2.	4
5	*2.	20	1	RECEPT. ROOF	C			100		6
7	*2.	20	1	EXISTING LOAD	A			100		8
9	*2.	15	1	FIRE ALARM BOOSTER POWER SUPPLY	B	DISTRIBUTION PANEL 'LP-CX'	3	100	*2.	10
11		15			C			100		12
13		15	2	ROOF SUPPLY FAN MECHANICAL ROOM 358	A			100		14
15					B	DISTRIBUTION PANEL 'PP-1'	3	100	*2.	16
17	*2.	15	1	SPARE	C			100		18
19	*2.	15	1	SPARE	A	HEAT PUMP 'HP-1'	2	20	*2.	20
21	*2.	15	1	SPARE	B			20		22
23	*5.	15	1	BOILER SHUT-DOWN CONTROL CCT. 'SR-1'	C	HOT WATER HEATER	2	20	*2.	24
25					A			20		26
27	*2.	15	1	MECHANICAL POWER SUPPLY - 358	B					28
29	*2.	15	1	MECHANICAL POWER SUPPLY - 358	C	RECEPT. ROOF (HIGH LEVEL)	1	20	*2.	30
31					A	RECEPT. ROOF (LOW LEVEL)	1	20	*2.	32
33	*2.	15	1	H.W. UNIT HEATER 'UH-1' - 358	B	RECEPT. MECH. ROOM 358	1	20	*2.	34
35	*2.	15	1	H.W. UNIT HEATER 'UH-1' - 358A	C	RECEPT. MECH. ROOM 358A	1	20	*2.	36
37					A					38
39					B					40
41					C					42
43					A					44
45					B					46
47					C					48
49					A					50
51					B	SPARE	1	15	*2.	52
53					C	SPARE	1	15	*2.	54
55					A	SPARE	1	20	*2.	56
57					B	SPARE	1	20	*2.	58
59					C	SPARE	1	20	*2.	60
61					A					62
63					B					64
65					C					66

\* NOTES:  
1. TRACE ALL BRANCH WIRING ON SITE TO CONFIRM CONNECTED LOADS. PROVIDE ACCURATE DIRECTORY.  
2. EXISTING LOAD. BREAKER AND BRANCH WIRING SHALL REMAIN.  
3. NOT USED.  
4. NOT USED.  
5. NEW LOAD. EXISTING BREAKER SHALL REMAIN. PROVIDE BRANCH WIRE WHERE APPLICABLE.  
6. NOT USED.  
7. NOT USED.

LOCATION	MAINS	VOLTAGE	#/WIRE	TYPE	MOUNTING	MAIN BREAKER
MECHANICAL ROOM 358	400A	208/120	3/4	SIEMENS P2	SURFACE	N/A

EXISTING PANEL 'PDDA' SCHEDULE (*1,*7.)										
NO.	NOTES	A	P	LOAD DESCRIPTION	#	LOAD DESCRIPTION	P	A	NOTES	NO.
1		15			A			15		2
3	*2.	15	3	FILTRATION UNIT ROOM 107 MANUFACTURING	B	SPARE	3	15	*2.	4
5		15			C			15		6
7		15			A			60		8
9	*2.	15	3	FLOOR EXHAUST ROOM 103 AUTO SHOP	B	TRANSFORMER 'MSA'	3	60	*6.	10
11		15			C			60		12
13		15			A					14
15	*6.	15	3	WELDING 103 ROOF EXHAUST FAN 'EF-4'	B					16
17		15			C					18
19		15			A					20
21	*6.	15	3	TRANSPORTATION 103 ROOF EXHAUST FAN 'EF-5'	B					22
23		15			C					24
25					A					26
27					B					28
29					C					30
31					A					32
33					B					34
35					C					36
37					A					38
39					B					40
41					C					42
43					A					44
45					B					46
47					C					48
49					A					50
51					B	SPARE	1	15	*2.	52
53					C	SPARE	1	15	*2.	54
55					A	SPARE	1	20	*2.	56
57					B	SPARE	1	20	*2.	58
59					C	SPARE	1	20	*2.	60
61					A					62
63					B					64
65					C					66

\* NOTES:  
1. TRACE ALL BRANCH WIRING ON SITE TO CONFIRM CONNECTED LOADS. PROVIDE ACCURATE DIRECTORY.  
2. EXISTING LOAD. BREAKER AND BRANCH WIRING SHALL REMAIN.  
3. NOT USED.  
4. NOT USED.  
5. NOT USED.  
6. NEW LOAD. PROVIDE BREAKER AND BRANCH WIRING.  
7. FED FROM 39-3W SOURCE.

LOCATION	MAINS	VOLTAGE	#/WIRE	TYPE	MOUNTING	MAIN BREAKER
MANUFACTURING SHOP 107	250A	600/347	3/4	□ NF	SURFACE	N/A

EXISTING PANEL 'KK' SCHEDULE (*1.)										
NO.	NOTES	A	P	LOAD DESCRIPTION	#	LOAD DESCRIPTION	P	A	NOTES	NO.
1	*2.	15	1	EXISTING CIRCUIT	A	EXISTING CIRCUIT	1	15	*2.	2
3	*2.	15	1	RECEPT. BELOW PANEL	B	EXISTING CIRCUIT	1	15	*2.	4
5	*2.	15	1	EXISTING CIRCUIT.	C	EXISTING CIRCUIT	1	15	*2.	6
7	*2.	15	1	CNC	A	COMPUTER RECEPTACLE	1	15	*2.	8
9	*4.	15	1	PLC PANEL MANUFACTURING 107	B	PLC PANEL AUTOMOTIVE 103	1	15	*4.	10
11	*2.	15	1	RECEPT. COMPUTER MANUFACTURING	C	RECEPTACLE SOUTH WALL AUTO SHOP	1	15	*2.	12
13	*2.	15	1	EXHAUST FAN MANUFACTURING	A	CEILING RECEPTACLE AUTO SHOP	1	15	*2.	14
15	*2.	15	1	EXISTING CIRCUIT.	B					16
17	*2.	20	1	EXISTING CIRCUIT.	C	FLOOR EXHAUST AUTO SHOP	3	15	*2.	18
19	*2.	20	1	EXISTING CIRCUIT.	A					20
21	*2.	20	1	EXISTING CIRCUIT.	B					22
23	*6.	20	1	RECEPT. ROOFTOP MAINTENANCE	C	WELD EXHAUST FAN AUTO	3	15	*2.	24
25					A					26
27					B	EXISTING CIRCUIT	1	15	*2.	28
29					C	EXISTING CIRCUIT	1	15	*2.	30
31					A	UNIT HEATER 'UH-1', 'UH-2' - 103	1	15	*6.	32
33					B					34
35					C					36
37		20			A					38
39	*6.	20	3	TRANSPORTATION 103 HW-4	B					40
41		20			C					42
43	*6.	15	1	MECHANICAL POWER SUPPLIES 'MPS'	A					44
45		15			B					46
47	*6.	15	2	TRANSPORTATION 103 RECIRC. PUMP 'P-12'	C					48
49					A					50
51					B					52
53					C					54

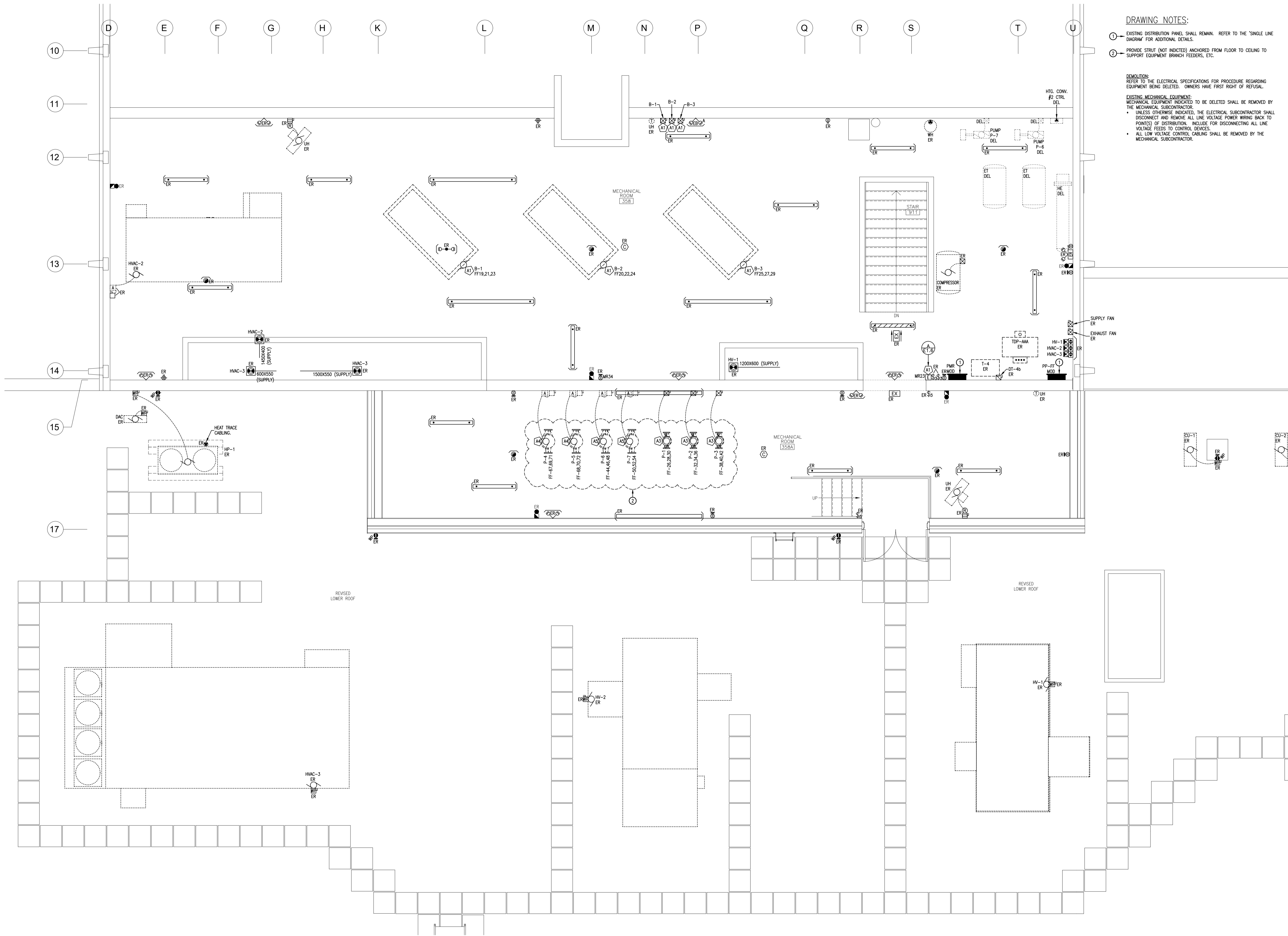
\* NOTES:  
1. TRACE ALL BRANCH WIRING ON SITE TO CONFIRM CONNECTED LOADS. PROVIDE ACCURATE DIRECTORY.  
2. EXISTING LOAD. BREAKER AND BRANCH WIRING SHALL REMAIN.  
3. NOT USED.  
4. MODIFIED LOAD. REFER TO FLOOR PLANS.  
5. NOT USED.  
6. NEW LOAD. PROVIDE BREAKER AND BRANCH WIRING.  
7. NOT USED.

LOCATION	MAINS	VOLTAGE	#/WIRE	TYPE	MOUNTING	MAIN BREAKER
MANUFACTURING SHOP 107	225A	208/120	3/4	□ NO	SURFACE	N/A

EXISTING PANEL 'FF' SCHEDULE (*1.)										
NO.	NOTES	A	P	LOAD DESCRIPTION	#	LOAD DESCRIPTION	P	A	NOTES	NO.
1		30			A			20		2
3	*2.	30	3	AIR HANDLING UNIT 'HW-2'	B	AIR HANDLING UNIT 'HW-1'	3	20	*2.	4
5		30			C			20		6
7		80			A			35		8
9	*2.	80	3	AIR HANDLING UNIT 'HW-3'	B	AIR HANDLING UNIT 'HW-2'	3	35	*2.	10
11		80			C			35		12
13		40			A			15		14
15	*2.	40	3	CYCLONE	B	AIR COMPRESSOR	3	15	*2.	16
17		40			C			15		18
19		15			A			15		20
21	*5.	15	3	BOILER 'B-1'	B	BOILER 'B-2'	3	15	*5.	22
23		15			C	SPARE		15		24
25		15			A			15		26
27	*5.	15	3	BOILER 'B-3'	B	BOILER PRIMARY PUMP 'P-1'	3	15	*5.	28
29		15			C	SPARE		15		30
31		15			A			15		32
33	*2.	15	3	MUA	B	BOILER PRIMARY PUMP 'P-2'	3	15	*5.	34
35		15			C	SPARE		15		36
37		15			A			15		38
39	*3.	15	3	SPARE	B	BOILER PRIMARY PUMP 'P-3'	3	15	*5.	40
41		15			C	SPARE		15		42
43		15			A			15		44
45	*3.	15	3	SPARE	B	ZONE PUMP, 1962 ADDITION PERIMETER HEAT 'P-4'	3	15	*5.	46
47		15			C	SPARE		15		48
49		15			A			15		50
51	*2.	15	3	C.O. EXHAUST FAN AUTO SHOP RM. 109	B	ZONE PUMP, 1962 ADDITION PERIMETER HEAT 'P-7'	3	15	*5.	52
53		15			C	SPARE		15		54
55		15			A			50		56
57	*2.	15	3	#2 EF SPRAY BOOTH CARPENTER SHOP	B	SPARE	3	50	*2.	58
59		15			C			50		60
61		15			A			50		62
63	*2.	15	3	ROOF EXHAUST FAN - WASHROOM	B	SPARE	3	50	*2.	64
65		15			C			50		66
67		60			A			60		68
69	*6.	60	3	SYSTEM PUMP, BUILDING-WIDE 'P-4'	B	SYSTEM PUMP, BUILDING-WIDE 'P-5'	3	60	*6.	70
71		60			C			60		72
73					A					74
75					B					76
77					C					78

\* NOTES:  
1. TRACE ALL BRANCH W



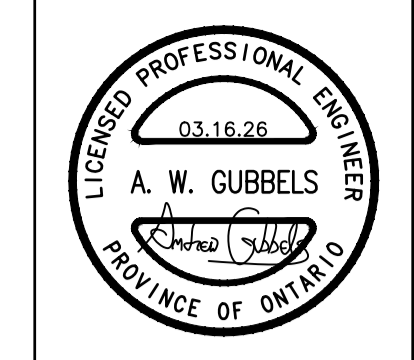


**DRAWING NOTES:**

- EXISTING DISTRIBUTION PANEL SHALL REMAIN. REFER TO THE 'SINGLE LINE DIAGRAM' FOR ADDITIONAL DETAILS.
- PROVIDE STRUT (NOT INDICATED) ANCHORED FROM FLOOR TO CEILING TO SUPPORT EQUIPMENT BRANCH FEEDERS, ETC.

**DEMOLITION:**  
REFER TO THE ELECTRICAL SPECIFICATIONS FOR PROCEDURE REGARDING EQUIPMENT BEING DELETED. OWNERS HAVE FIRST RIGHT OF REFUSAL.

**EXISTING MECHANICAL EQUIPMENT:**  
MECHANICAL EQUIPMENT INDICATED TO BE DELETED SHALL BE REMOVED BY THE MECHANICAL SUBCONTRACTOR.  
UNLESS OTHERWISE INDICATED, THE ELECTRICAL SUBCONTRACTOR SHALL DISCONNECT AND REMOVE ALL LINE VOLTAGE POWER WIRING BACK TO POINT(S) OF DISTRIBUTION. INCLUDE FOR DISCONNECTING ALL LINE VOLTAGE FEEDS TO CONTROL DEVICES.  
ALL LOW VOLTAGE CONTROL CABLING SHALL BE REMOVED BY THE MECHANICAL SUBCONTRACTOR.



MNE Engineering Inc.  
22 Keoka Place - Box A  
Kitchener, Ontario N2C 2G5  
(519) 894-8408  
www.mneengineering.ca

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ISSUED FOR BID 226-7860-RFT A.W.G.



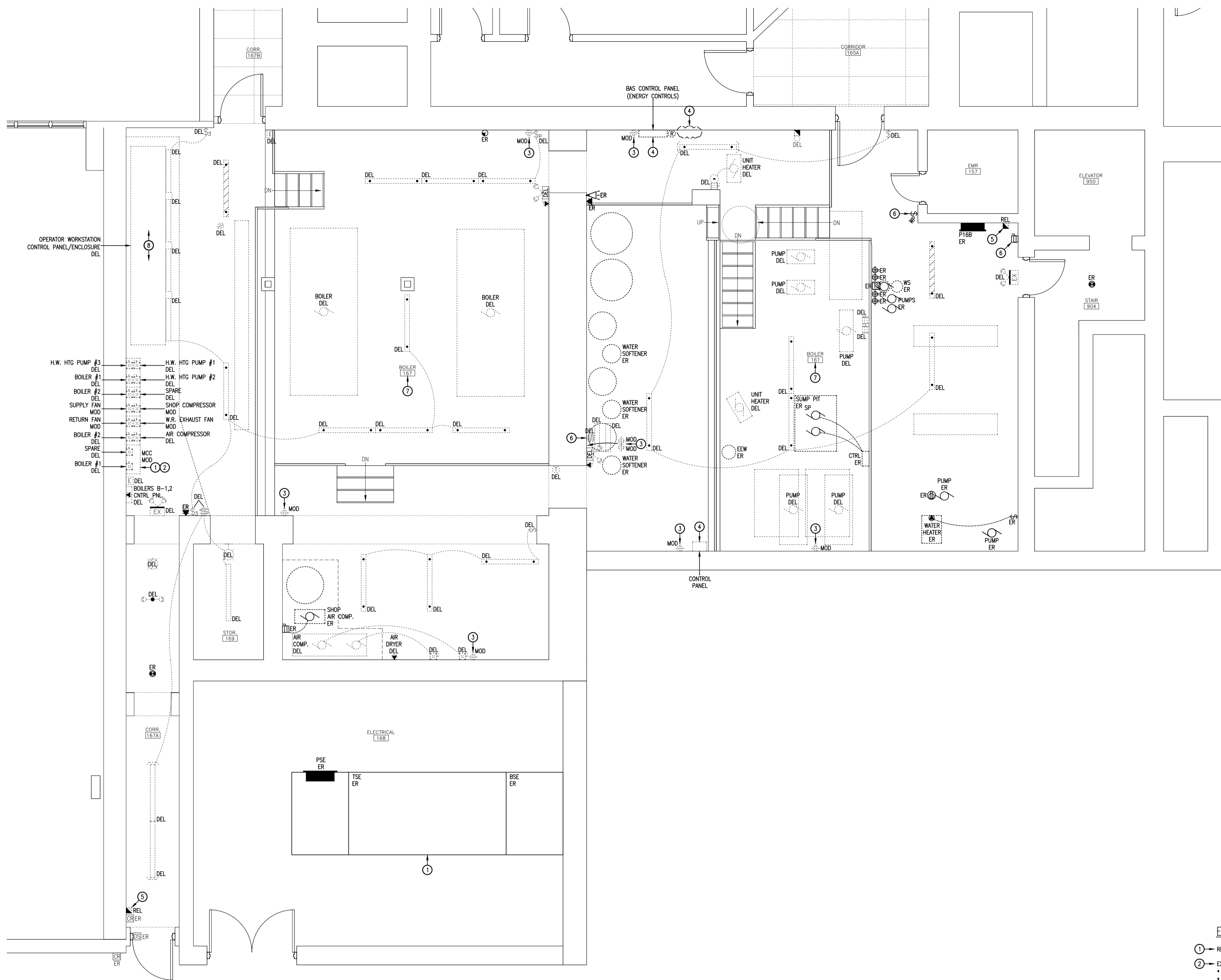
**Galt Collegiate Institute**  
BOILER REPLACEMENT AND HVAC UPGRADES - PHASE 2  
200 WATER STREET NORTH, CAMBRIDGE ON N1R 1H8

Project No.: 23053  
Drawn By: J.A.G.  
Checked By: A.W.G.

**PROJECT A - PARTIAL THIRD FLOOR ELECTRICAL PLAN**

1 PARTIAL THIRD FLOOR ELECTRICAL PLAN  
E2.1 SCALE: 1:100

E2.1



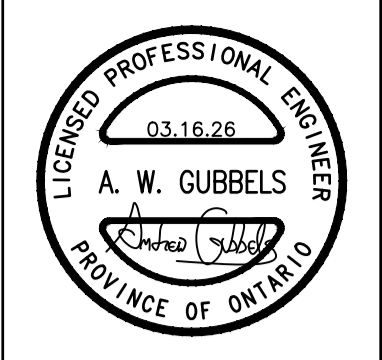
1 PARTIAL EXISTING FIRST FLOOR ELECTRICAL PLAN  
 E2.2 SCALE: 1:50

- EXISTING DRAWING NOTES:**
- 1 REFER TO THE 'SINGLE LINE DIAGRAMS' FOR POWER DISTRIBUTION DETAILS.
  - 2 EXISTING MOTOR CONTROL CENTRE (MCC) SHALL BE DELETED.
    - REMOVE ALL REDUNDANT POWER AND CONTROL WIRING TO THE DELETED LOADS.
    - EXISTING LOADS TO REMAIN SHALL HAVE THE POWER WIRING REWORKED/REDIRECTED TO THE NEW STARTER. CONTROL WIRING TO BE DELETED.
  - 3 EXISTING DEVICE SHALL BE DISCONNECTED, REMOVED AND REPLACED WITH NEW. REUSE THE EXISTING BRANCH WIRING, OUTLET BOX, CONDUIT (WHERE APPLICABLE), ETC. AS REQUIRED.
  - 4 COORDINATE ON SITE WITH THE MECHANICAL CONTRACTOR IF THE EXISTING CONTROL PANEL, RELAY, SWITCH/STARTER, ETC. WILL BE REDUNDANT AFTER ALTERATIONS. IF REDUNDANT, DELETE ALL EQUIPMENT, BRANCH WIRING, CONDUITS, ETC.
  - 5 RELOCATE MANUAL STATION TO THE REVISED LOCATION (WHERE APPLICABLE) AND/OR SPECIFIED HEIGHT. REWORK WIRING AND CONDUITS AND PROVIDE NEW WHERE REQUIRED.
  - 6 CONFIRM ON SITE IF THE EXISTING DEVICE WILL BE REDUNDANT AFTER ALTERATIONS. IF REDUNDANT, DELETE DEVICE AND BRANCH WIRING. IF STILL IN USE, DEVICE TO REMAIN AS PRESENTLY INSTALLED.
  - 7 REMOVE ALL REDUNDANT BRANCH WIRING, CONDUITS, SUPPORTS, ETC. FROM THE MODIFIED BOILER ROOM AREAS. CONFIRM EXTENT OF WORK ON SITE.
  - 8 EXISTING OPERATOR WORKSTATION CONTROL PANEL/ENCLOSURE SHALL BE DELETED BY MECHANICAL TRADES. REMOVE ALL REDUNDANT BRANCH WIRING, CONDUITS, ETC.
    - CONTROL WIRING SERVING THE EXISTING SHOP COMPRESSOR (IF REQUIRED TO REMAIN) SHALL BE REWORKED/REROUTED TO THE NEW STARTER. CONFIRM EXACT REQUIREMENTS ON SITE.

**ABATEMENT:**  
 INCLUDE THE COST OF RETAINING AN OWNER-APPROVED SUBCONTRACTOR FOR THE ABATEMENT OF ALL ASBESTOS CONTAINING MATERIAL (ACM) WITHIN A 600mm RADIUS OF ANY ELECTRICAL WORK. REFER TO THE OWNER'S DESIGNATED SUBSTANCES REPORT.

**RESOLUTION:**  
 REFER TO THE ELECTRICAL SPECIFICATIONS FOR PROCEDURE REGARDING EQUIPMENT BEING DELETED. OWNERS HAVE FIRST RIGHT OF REFUSAL.

**EXISTING MECHANICAL EQUIPMENT:**  
 MECHANICAL EQUIPMENT INDICATED TO BE DELETED SHALL BE REMOVED BY THE MECHANICAL SUBCONTRACTOR. UNLESS OTHERWISE INDICATED, THE ELECTRICAL SUBCONTRACTOR SHALL DISCONNECT AND REMOVE ALL LINE VOLTAGE POWER WIRING BACK TO POINT(S) OF DISTRIBUTION. INCLUDE FOR DISCONNECTING ALL LINE VOLTAGE FEEDS TO CONTROL DEVICES.  
 • ALL LOW VOLTAGE CONTROL CABLEING SHALL BE REMOVED BY THE MECHANICAL SUBCONTRACTOR.



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 Kitchener, Ontario N2C 2G5  
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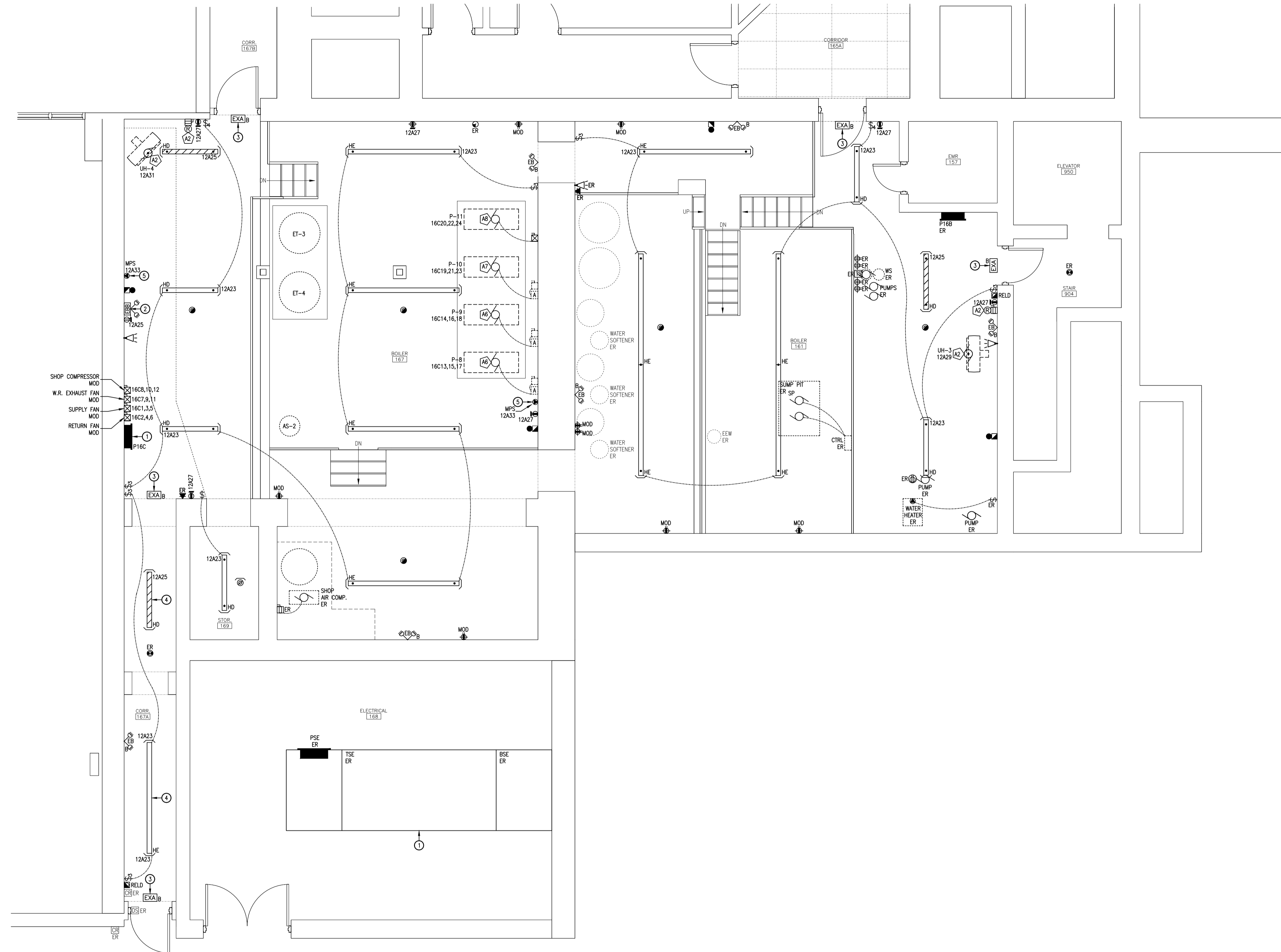
**Galt Collegiate Institute**  
 200 WATER STREET NORTH, CAMBRIDGE, ON N1R 1H6

**PROJECT A - PARTIAL EXISTING FIRST FLOOR ELECTRICAL PLAN**

BOILER REPLACEMENT AND HVAC UPGRADES - PHASE 2

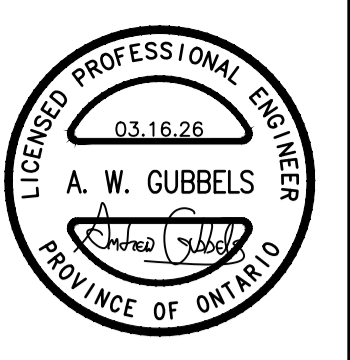
Project No.: 23053  
 Drawn By: J.A.G.  
 Checked By: A.W.G.

**E2.2**



1 PARTIAL REVISED FIRST FLOOR ELECTRICAL PLAN  
 E2.3 SCALE: 1:50

- REVISED DRAWING NOTES:
- ① REFER TO THE 'SINGLE LINE DIAGRAMS' FOR POWER DISTRIBUTION DETAILS.
  - ② CONNECT TO THE NIGHT LIGHTING CIRCUIT UPSTREAM OF CONTROLS. PROVIDE WIRING TO REMOTE EMERGENCY AND EXIT LIGHTING FIXTURES AS CIRCUITED.
  - ③ CONNECT FIXTURE TO THE EXISTING LOCAL AREA EXIT LIGHTING CIRCUIT. CONFIRM EXACT CIRCUIT ON SITE AND EXTEND WIRING FROM NEAREST EXISTING FIXTURE.
  - ④ SURFACE MOUNT FIXTURE.
  - ⑤ MOUNT AT HIGH LEVEL. COORDINATE EXACT LOCATION WITH MECHANICAL SUBCONTRACTOR.



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 Kitchener, Ontario N2C 2G5  
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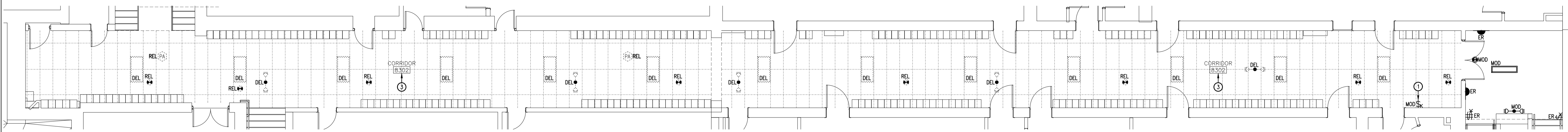
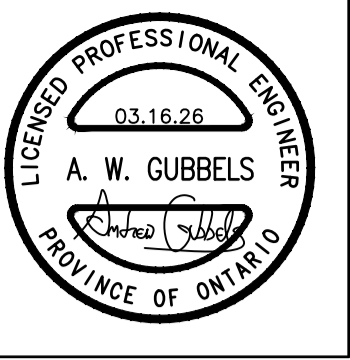
**Galt Collegiate Institute**  
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PROJECT A - PARTIAL REVISED FIRST FLOOR ELECTRICAL PLAN

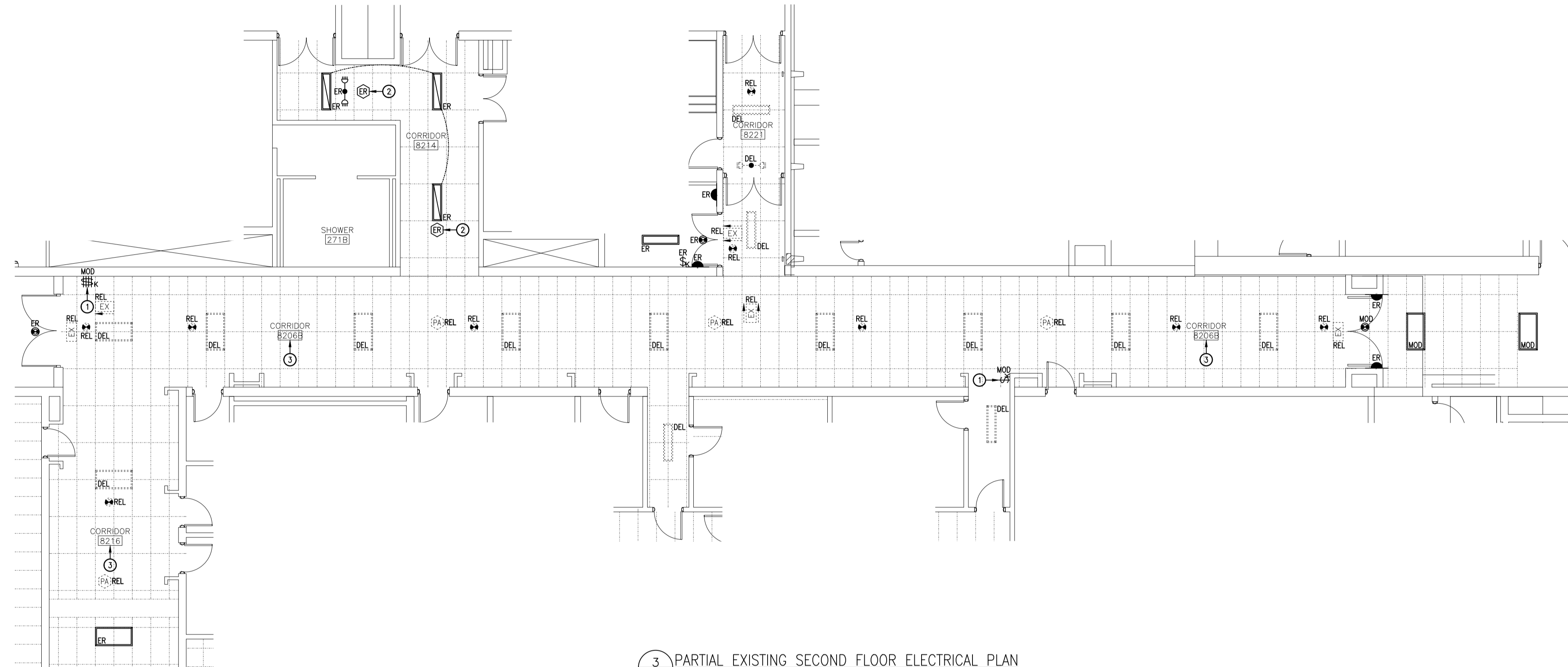
BOILER REPLACEMENT AND HVAC UPGRADES - PHASE 2

Project No.: 23053  
 Drawn By: J.A.G.  
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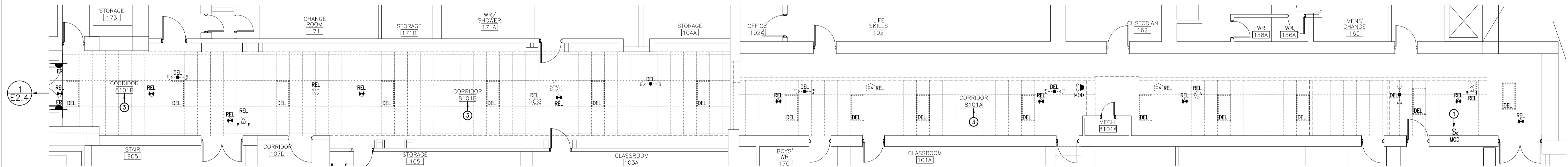
E2.3



4 PARTIAL EXISTING THIRD FLOOR ELECTRICAL PLAN  
E2.4 SCALE: 1:100



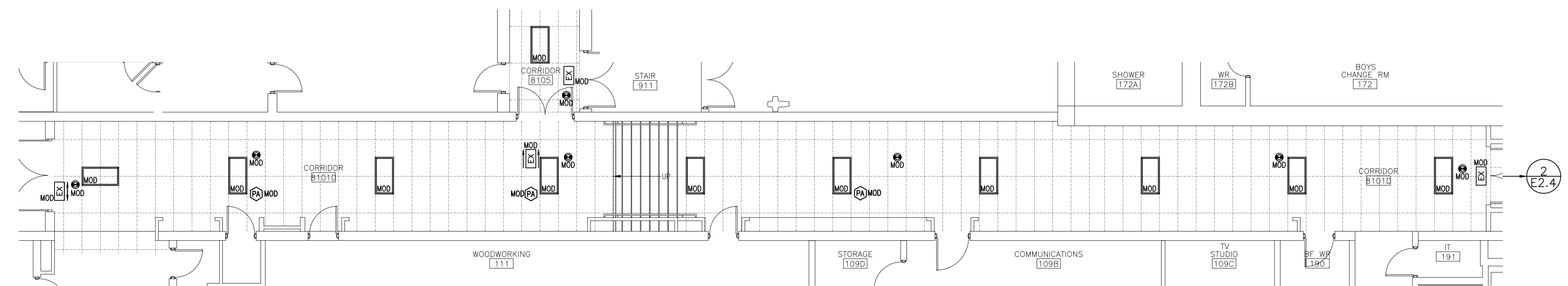
3 PARTIAL EXISTING SECOND FLOOR ELECTRICAL PLAN  
E2.4 SCALE: 1:100



2 PARTIAL EXISTING FIRST FLOOR ELECTRICAL PLAN  
E2.4 SCALE: 1:100

EXISTING DRAWING NOTES:

- ① - MAINTAIN EXISTING LIGHTING CONTROL DEVICE.
  - ② - EXISTING CEILING MOUNTED SENSOR SHALL REMAIN. REWORK BRANCH/CONTROL WIRING AS REQUIRED SO THAT SENSORS ALSO CONTROL THE NEW LIGHTING FIXTURES IN THE ADJACENT CORRIDOR AS CIRCUITED.
  - ③ - REWORK EXISTING LIGHTING CIRCUIT(S) AND WIRING FOR NEW LUMINAIRES.
- DEMOLITION:**  
REFER TO THE ELECTRICAL SPECIFICATIONS FOR PROCEDURE REGARDING EQUIPMENT BEING DELETED. OWNERS HAVE FIRST RIGHT OF REFUSAL.
- DESIGNATIONS:**  
EXISTING CEILING MOUNTED DEVICES WITH THE 'MOD' DESIGNATION SHALL BE TEMPORARILY DISCONNECTED AND REMOVED TO PERMIT MECHANICAL INSTALLATIONS AND REINSTALLED IN THE SAME LOCATIONS.
- CEILINGS:**  
REFER TO THE ARCHITECTURAL PLANS FOR REMOVAL OF EXISTING CEILINGS AND INSTALLATION OF NEW CEILINGS (WHERE APPLICABLE).  
• INCLUDE FOR STRAPPING EXISTING CONDUITS AND CABLES THAT ARE NOT PROPERLY SUPPORTED AND ARE REQUIRED TO REMAIN.
- ABATEMENT:**  
INCLUDE THE COST OF RETAINING AN OWNER-APPROVED SUBCONTRACTOR FOR THE ABATEMENT OF ALL ASBESTOS CONTAINING MATERIAL (ACM) WITHIN A 600mm RADIUS OF ANY ELECTRICAL WORK. REFER TO THE OWNER'S DESIGNATED SUBSTANCES REPORT.

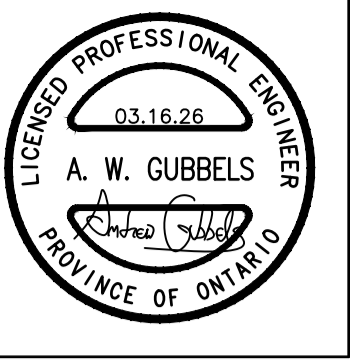


1 PARTIAL EXISTING FIRST FLOOR ELECTRICAL PLAN  
E2.4 SCALE: 1:100

MNE Engineering Inc.  
22 Keoka Place - Box A  
Kitchener, Ontario N2C 2G5  
(519) 894-8408  
www.mneengineering.ca



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200 WATER STREET NORTH, CAMBRIDGE, ON N1R 1H8  
PROJECT A - PARTIAL EXISTING CORRIDOR ELECTRICAL PLANS  
BOILER REPLACEMENT AND HVAC UPGRADES - PHASE 2  
Project No.: 23053  
Drawn By: J.A.G.  
Checked By: A.W.G.

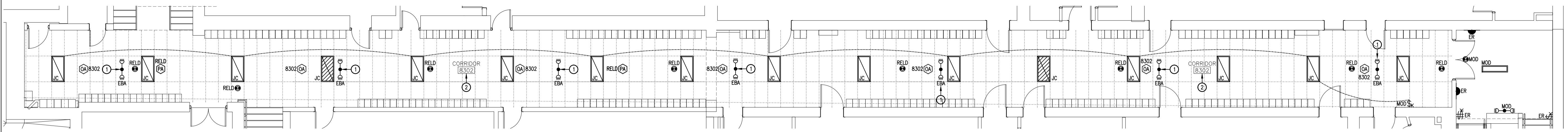


MNE Engineering Inc.  
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Kitchener, Ontario N2C 2G5  
(519) 894-8408  
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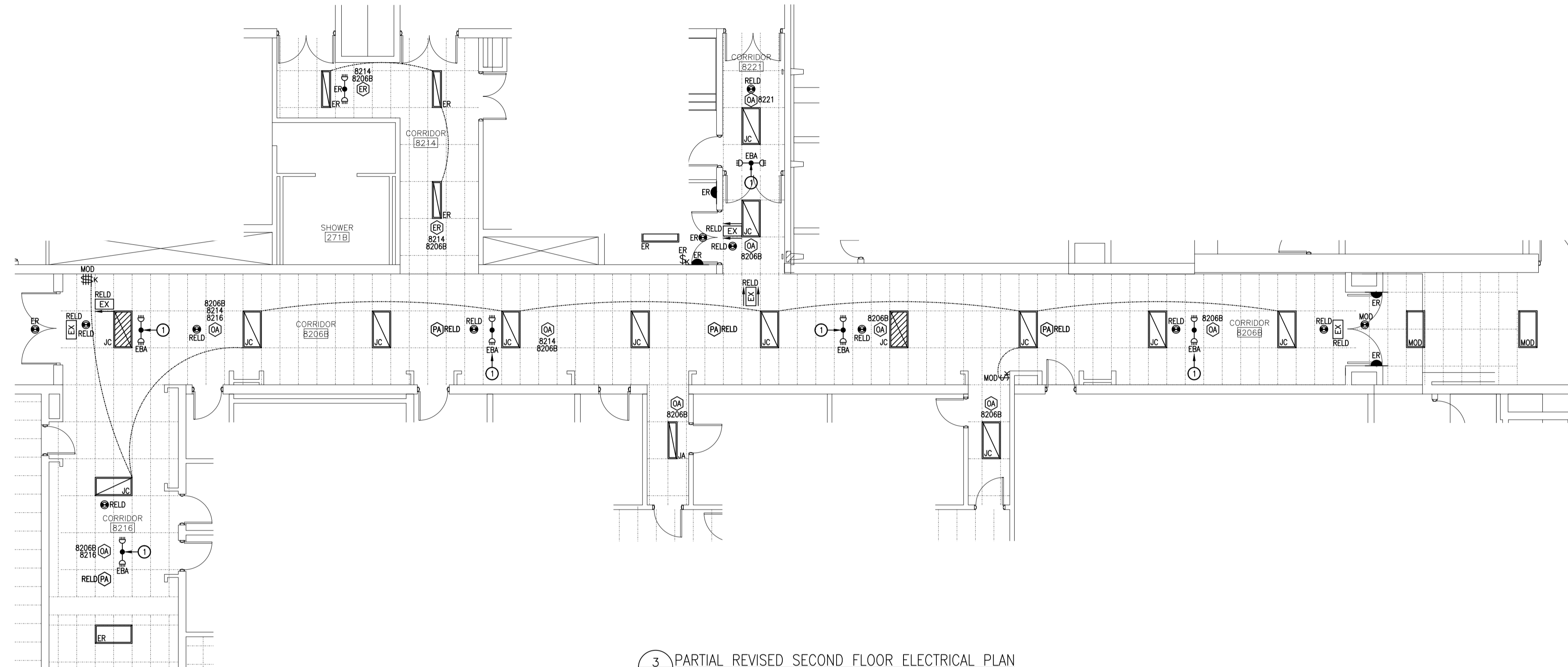


**Galt Collegiate Institute**  
200 WATER STREET NORTH, CAMBRIDGE, ON N1R 1H8  
PROJECT A - PARTIAL REVISED  
CORRIDOR ELECTRICAL PLANS  
BOILER REPLACEMENT AND HVAC UPGRADES - PHASE 2  
Project No.: 23053  
Drawn By: J.A.G.  
Checked By: A.W.G.

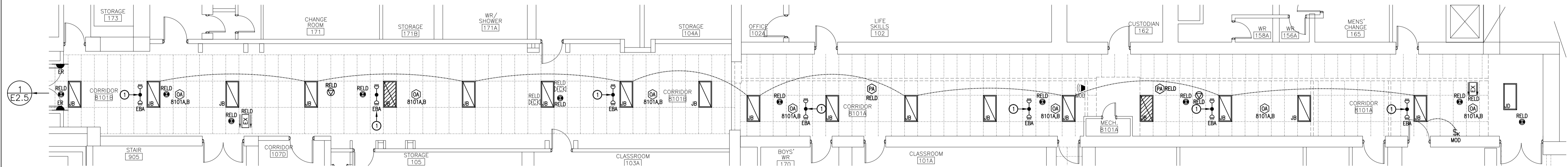
E2.5



4 PARTIAL REVISED THIRD FLOOR ELECTRICAL PLAN  
E2.5 SCALE: 1:100

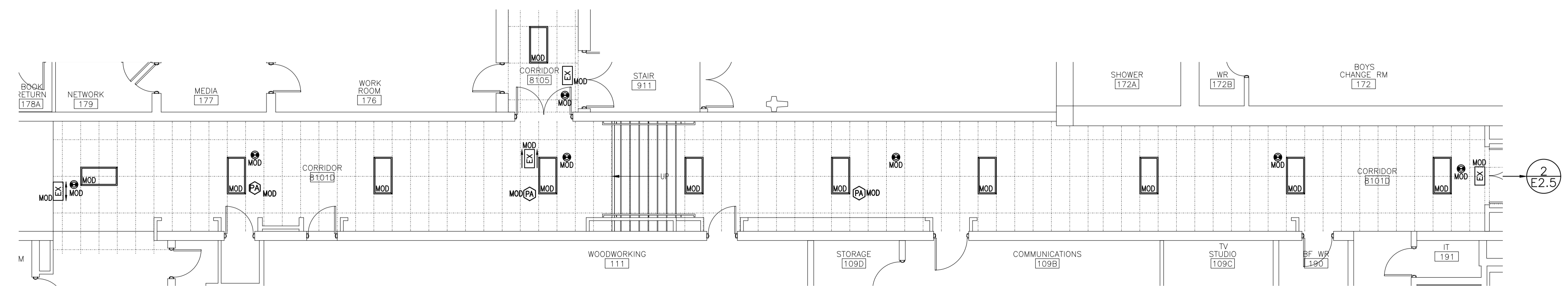


3 PARTIAL REVISED SECOND FLOOR ELECTRICAL PLAN  
E2.5 SCALE: 1:100

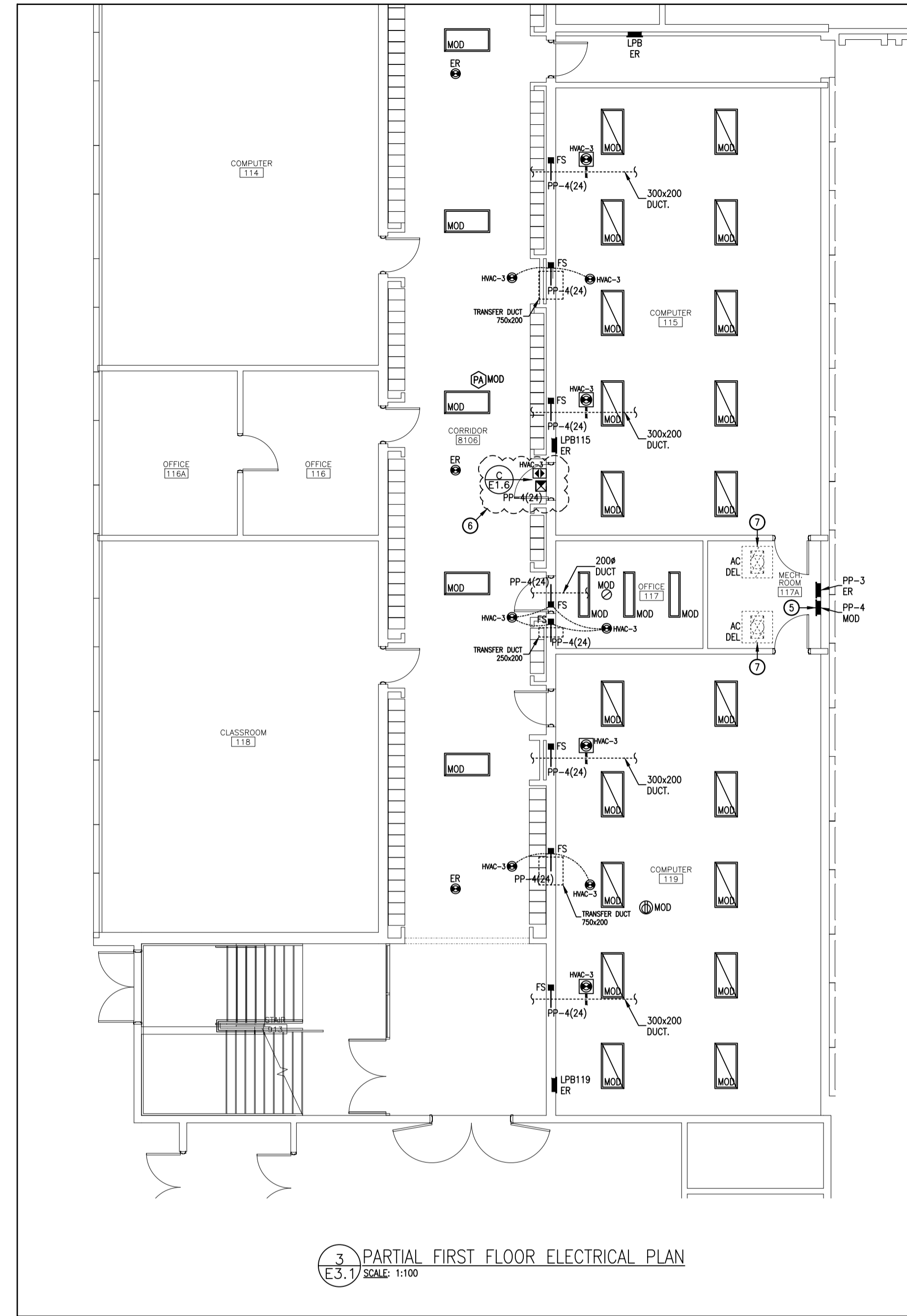
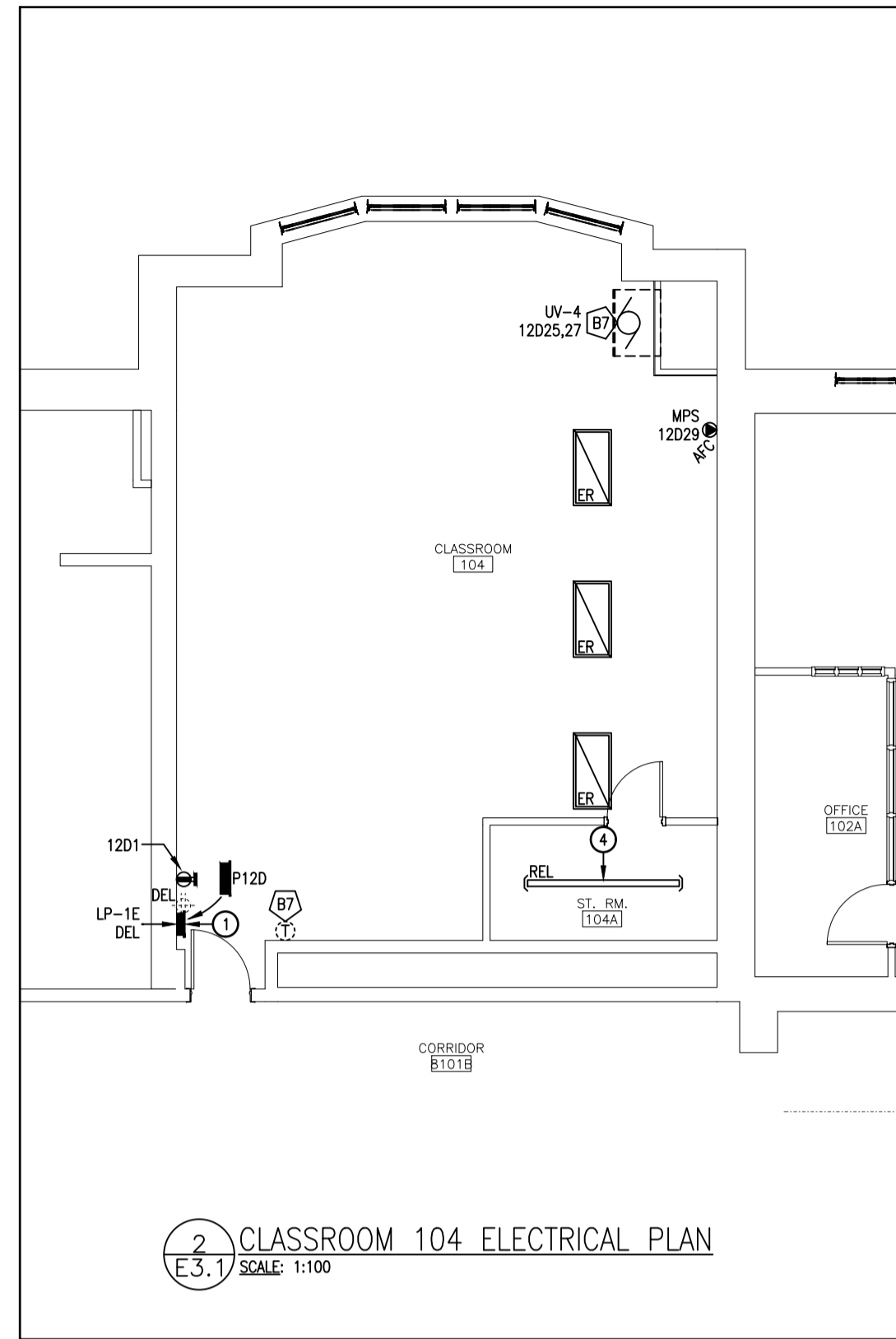
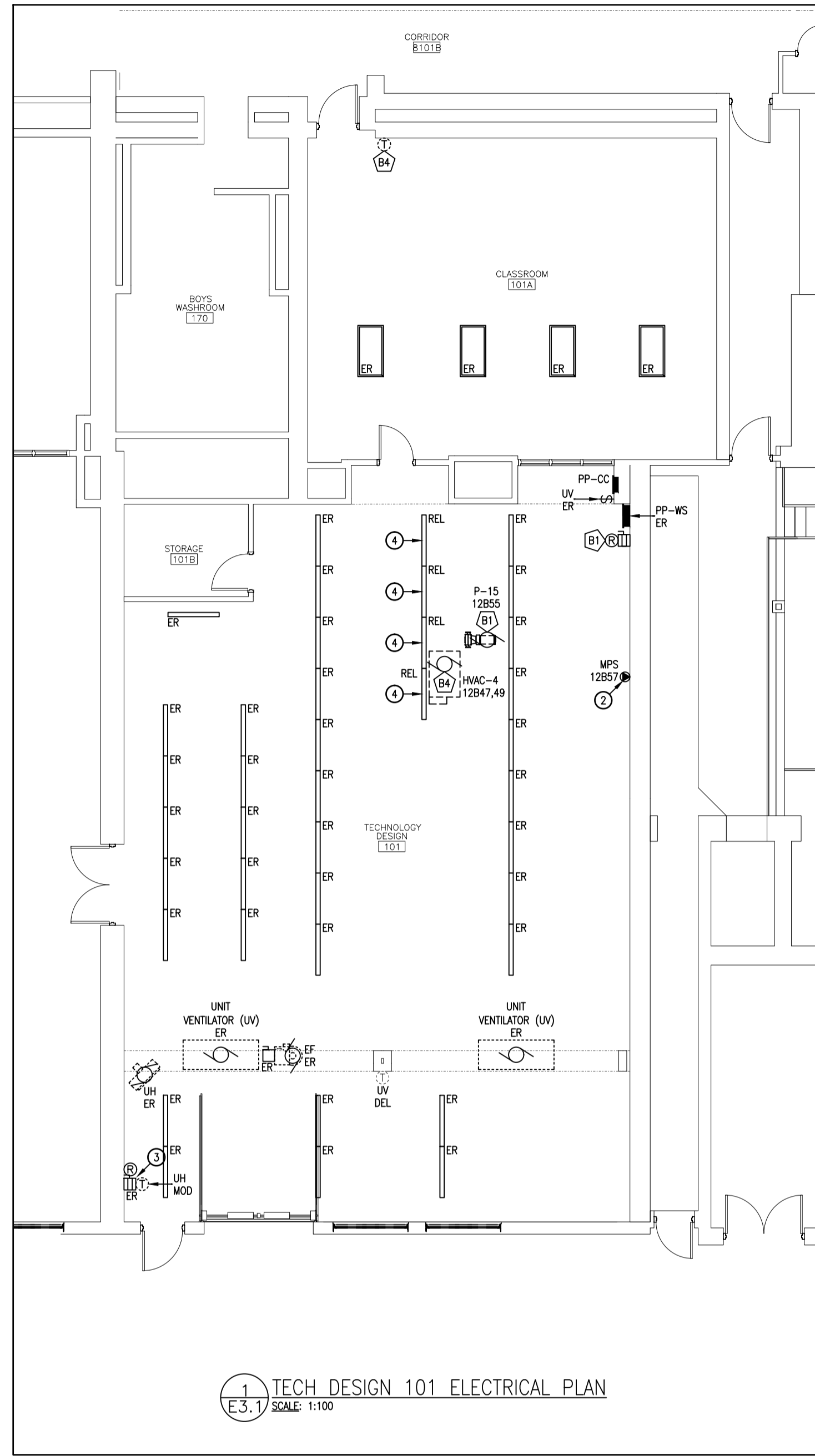


2 PARTIAL REVISED FIRST FLOOR ELECTRICAL PLAN  
E2.5 SCALE: 1:100

- REVISED DRAWING NOTES:**
- CONNECT TO EXISTING (REVISED) CORRIDOR LIGHTING CIRCUIT, UPSTREAM OF EXISTING/NEW CONTROLS.
  - LIGHTING CONTROLS**  
MODIFY LIGHTING & CONTROL AS INDICATED. PROVIDE NEW CONTROL DEVICES WHERE INDICATED.  
WHERE INDICATED, LUMINAIRES SHALL BE CONTROLLED BY OCCUPANCY SENSORS.  
• PROVIDE POWER PACKS (NOT INDICATED) FOR THE SENSORS. LOCATE ABOVE ACCESSIBLE CEILING & PROVIDE CIMP LOW VOLTAGE CABLING.  
• PARALLEL SENSORS FOR CONTROL OF AREAS AS TAGGED.  
• ADJUST SENSORS PER MANUFACTURERS INSTRUCTIONS AS REQUIRED TO PROVIDE ADEQUATE DETECTION.  
• SWITCHES ARE FOR MANUALLY BYPASSING THE SENSOR(S) TO TURN OFF THE LIGHTING AS CIRCUITED.  
• REFER TO LIGHTING CONTROL SCHEDULE.  
WHERE NO CIRCUIT IS OUTLINED, REUSE EXISTING LIGHTING BRANCH CIRCUITS FOR NEW LUMINAIRES.



1 PARTIAL REVISED FIRST FLOOR ELECTRICAL PLAN  
E2.5 SCALE: 1:100



**DRAWING NOTES:**

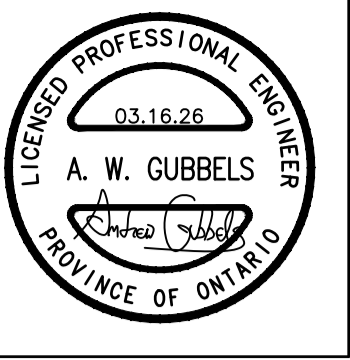
- 1 EXISTING DISTRIBUTION PANEL TO BE DISCONNECTED, REMOVED AND REPLACED WITH NEW IN APPROXIMATELY THE SAME LOCATION. REFER TO THE 'SINGLE LINE DIAGRAMS' FOR ADDITIONAL INFORMATION.
  - EXISTING RECEPTACLE MOUNTED ON SIDE OF PANEL TO BE DELETED.
- 2 MOUNT AT HIGH LEVEL. COORDINATE EXACT LOCATION WITH MECHANICAL SUBCONTRACTOR.
- 3 MODIFY THE CONTROL FOR THE EXISTING UNIT HEATER AS FOLLOWS:
  - EXISTING STARTER TO REMAIN.
  - EXISTING THERMOSTAT (NOT INDICATED) TO BE REMOVED AND REPLACED BY THE MECHANICAL SUBCONTRACTOR.
  - PROVIDE NEW BAS RELAY FOR CONTROLS CONNECTION BY MECHANICAL TRADES. REMARK POWER WIRING AS REQUIRED.
- 4 RELOCATE LIGHTING FIXTURE (IF REQUIRED) TO AVOID NEW DUCTWORK. MAINTAIN POSITION AS CLOSE AS POSSIBLE TO ORIGINAL.
- 5 EXISTING WESTINGHOUSE #NBA 225A, 120/208V, 3ø, 4-WIRE, 30 CIRCUIT DISTRIBUTION PANEL TO REMAIN.
  - PROVIDE A NEW BREAKER IN POSITION #24 TO FEED THE NEW FIRE/SMOKE DAMPERS. BREAKER TO BE PAINTED RED AND LOCKABLE IN THE 'ON' POSITION.
  - PROVIDE AN UPDATED TYPED DIRECTORY.
- 6 PROVIDE RELAYS AS REQUIRED. CONFIRM EXACT LOCATION ON-SITE TO SUIT EXISTING SYSTEM.
  - CONNECT/PROGRAM NEW DETECTORS TO THE EXISTING LOCAL AREA INITIATING ZONE.
  - CLEARLY LOCATE RELAY LOCATIONS ON AS-BUILT DRAWINGS.
- 7 DELETE ALL POWER CONNECTIONS C/W STARTERS/DISCONNECTS/ETC. TO THE AC UNITS AND THE REMOTE ROOFTOP CONDENSING UNITS (NOT INDICATED).

**DESIGNATIONS:**  
EXISTING CEILING MOUNTED DEVICES WITH THE 'MOD' DESIGNATION SHALL BE TEMPORARILY DISCONNECTED AND REMOVED TO PERMIT MECHANICAL INSTALLATIONS AND REINSTALLED IN THE SAME LOCATIONS.

**ABATEMENT:**  
INCLUDE THE COST OF RETAINING AN OWNER-APPROVED SUBCONTRACTOR FOR THE ABATEMENT OF ALL ASBESTOS CONTAINING MATERIAL (ACM) WITHIN A 600mm RADIUS OF ANY ELECTRICAL WORK. REFER TO THE OWNER'S DESIGNATED SUBSTANCES REPORT.

**DEMOLITION:**  
REFER TO THE ELECTRICAL SPECIFICATIONS FOR PROCEDURE REGARDING EQUIPMENT BEING DELETED. OWNERS HAVE FIRST RIGHT OF REFUSAL.

**EXISTING MECHANICAL EQUIPMENT:**  
MECHANICAL EQUIPMENT INDICATED TO BE DELETED SHALL BE REMOVED BY THE MECHANICAL SUBCONTRACTOR.  
• UNLESS OTHERWISE INDICATED, THE ELECTRICAL SUBCONTRACTOR SHALL DISCONNECT AND REMOVE ALL LINE VOLTAGE POWER WIRING BACK TO POINT(S) OF DISTRIBUTION. INCLUDE FOR DISCONNECTING ALL LINE VOLTAGE FEEDS TO CONTROL DEVICES.  
• ALL LOW VOLTAGE CONTROL CABLING SHALL BE REMOVED BY THE MECHANICAL SUBCONTRACTOR.



MNE Engineering Inc.  
22 Keoka Place - Box A  
Kitchener, Ontario N2C 2G5  
(519) 894-8408  
www.mneengineering.ca

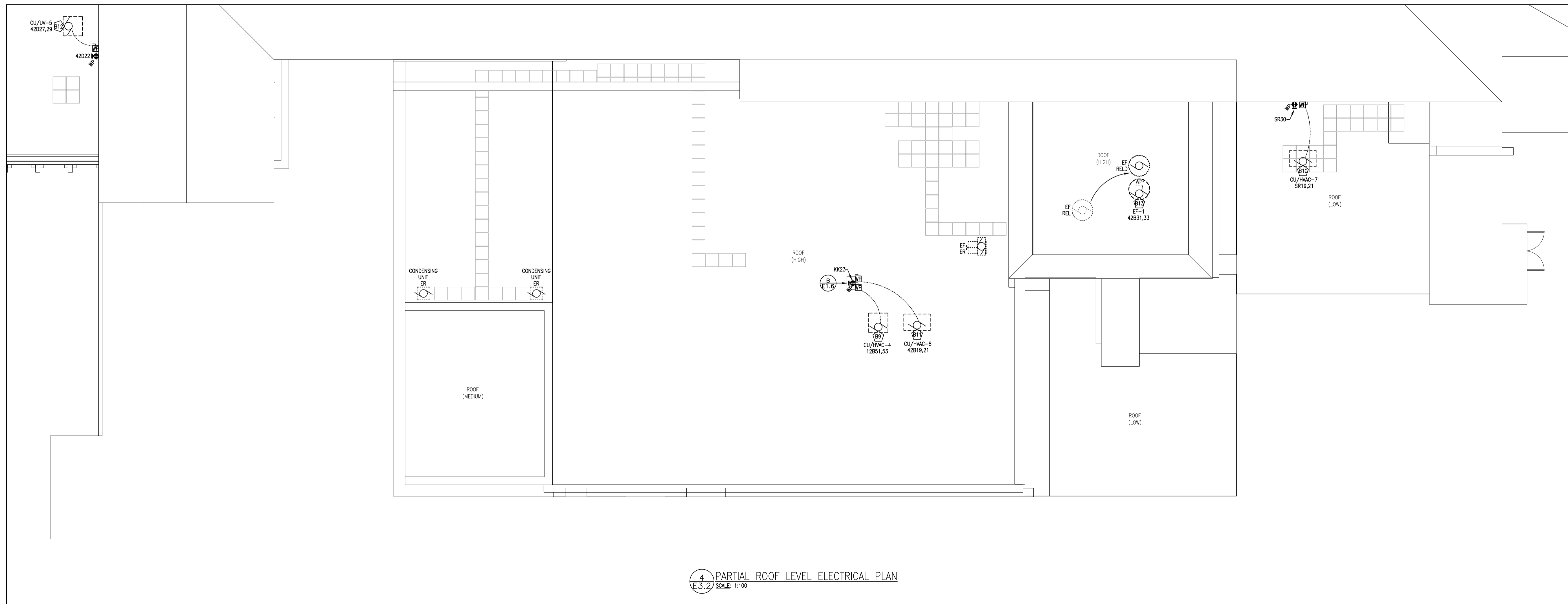
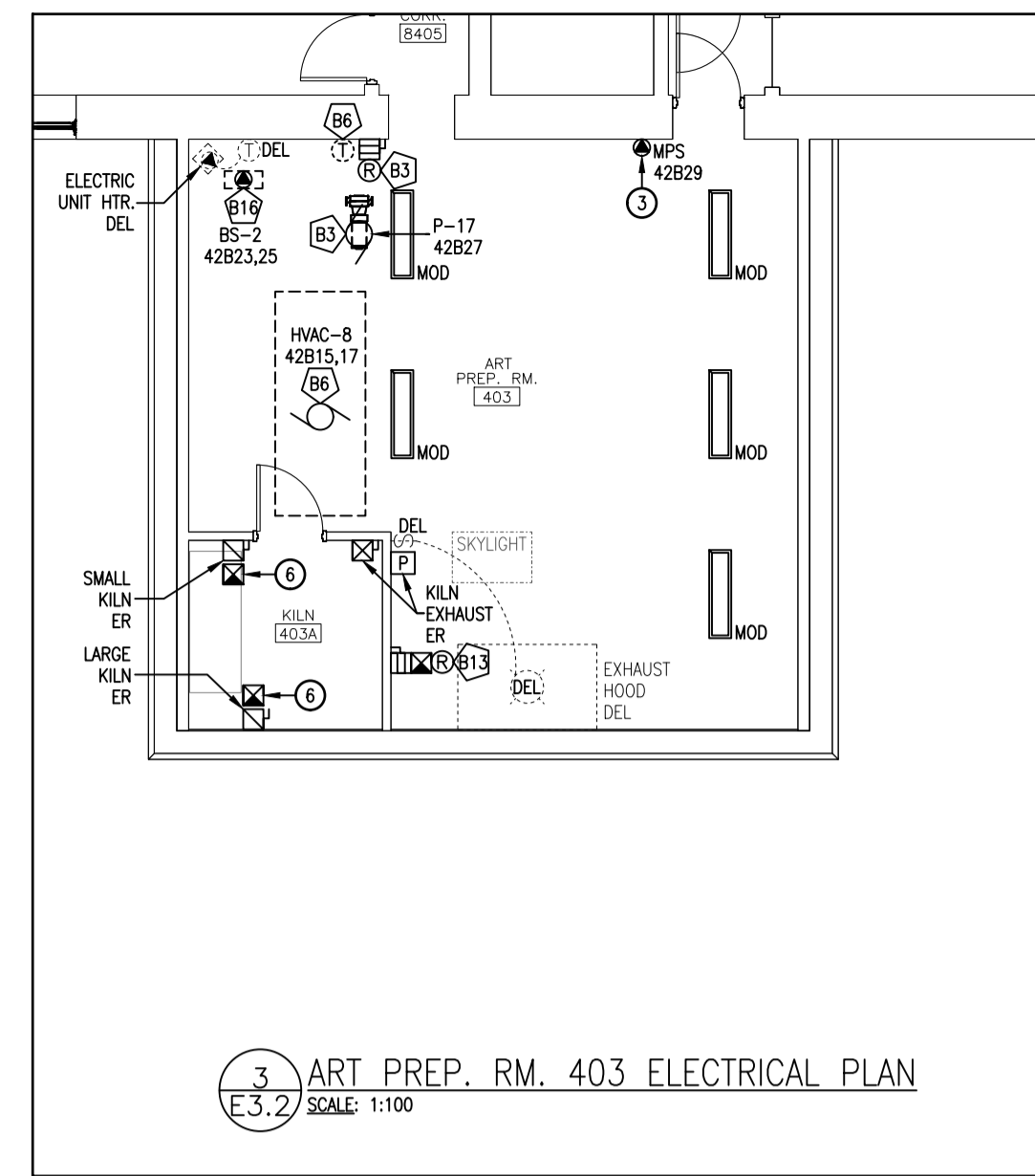
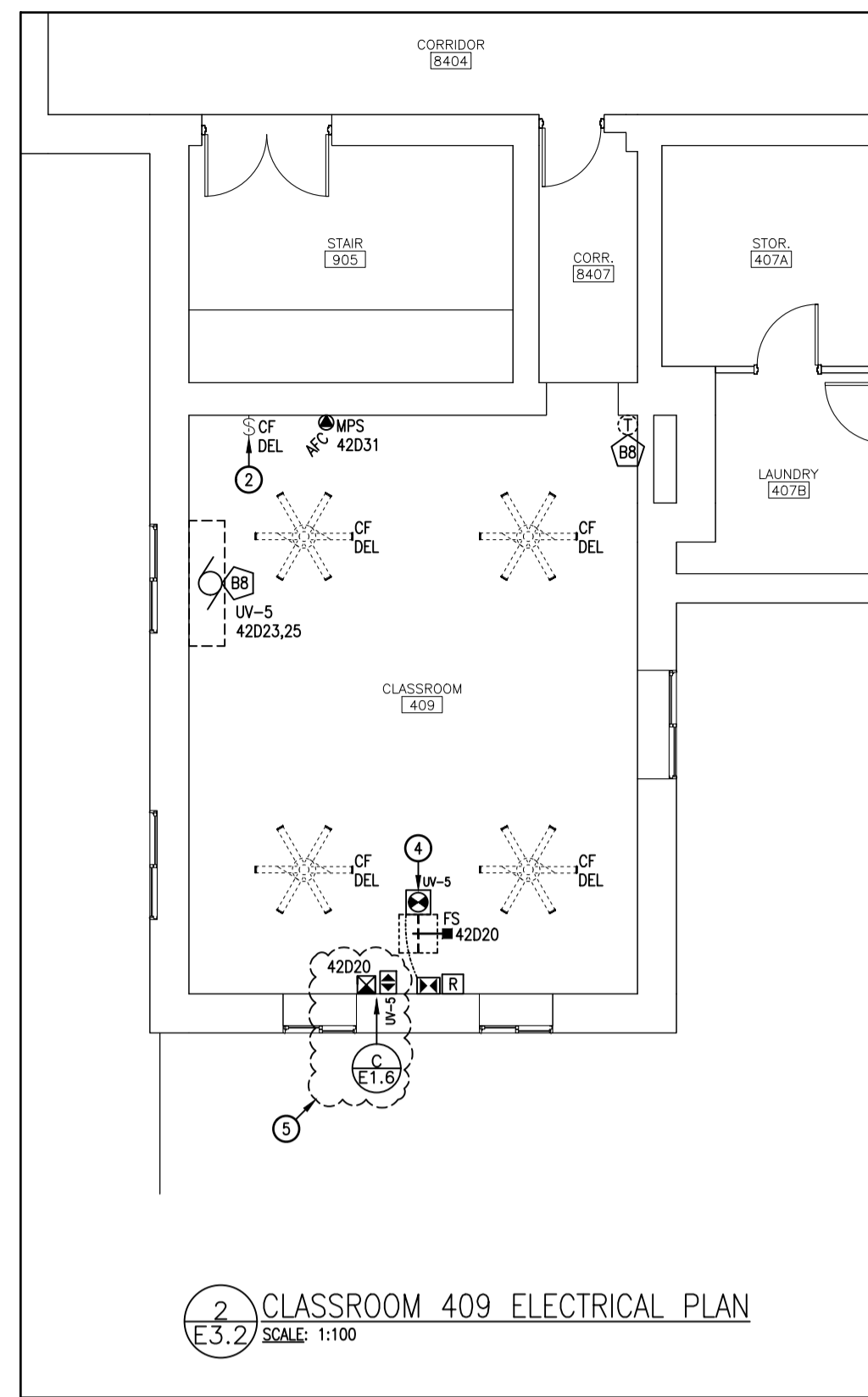
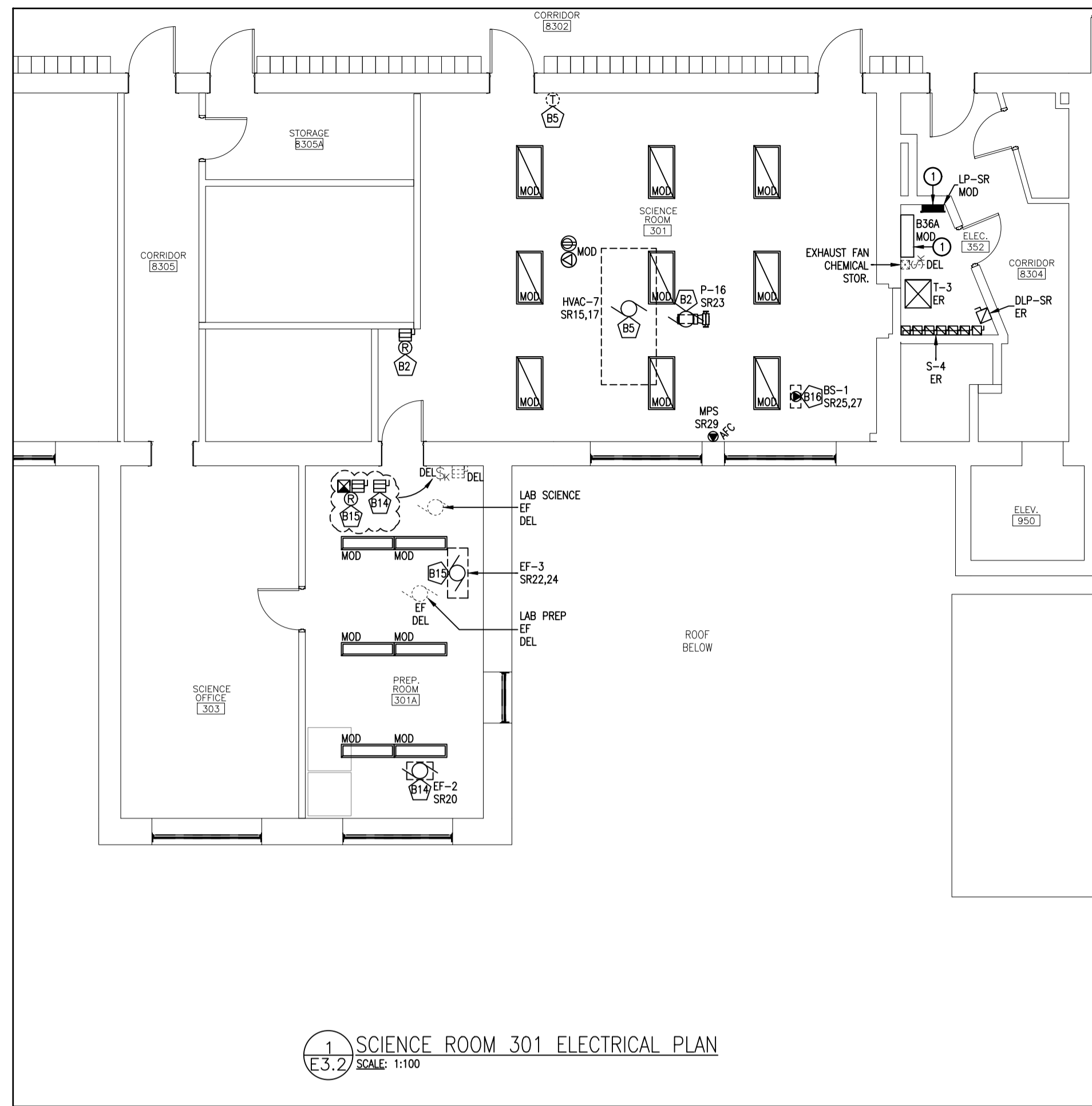


**Galt Collegiate Institute**  
200 WATER STREET NORTH, CAMBRIDGE ON N1R 1H8  
BOILER REPLACEMENT AND HAV UPGRADES - PHASE 2

**PROJECT B - PARTIAL FIRST FLOOR ELECTRICAL PLANS**

Project No.: 23053  
Drawn By: J.A.G.  
Checked By: A.W.G.

E3.1



**DRAWING NOTES:**

- 1 EXISTING DISTRIBUTION PANEL SHALL REMAIN. REFER TO THE 'SINGLE LINE DIAGRAM' FOR ADDITIONAL DETAILS.
- 2 CONFIRM ON SITE IF THE EXISTING DEVICE WILL BE REDUNDANT AFTER ALTERATIONS. IF REDUNDANT, DELETE DEVICE AND BRANCH WIRING. IF STILL IN USE, DEVICE TO REMAIN AS PRESENTLY INSTALLED.
- 3 MOUNT AT HIGH LEVEL. COORDINATE EXACT LOCATION WITH MECHANICAL SUBCONTRACTOR.
- 4 MOUNT DETECTOR DOWNSTREAM OF THE FIRE/SMOKE DAMPER. IT IS ASSUMED THE DETECTOR WILL BE LOCATED IN THE UNCONDITIONED ATTIC SPACE. ENSURE DETECTOR IS IN AN ACCESSIBLE LOCATION FOR SERVICING/TESTING.
- 5 PROVIDE RELAYS AS REQUIRED/INDICATED.
  - CONNECT/PROGRAM NEW DETECTOR TO THE EXISTING LOCAL AREA INITIATING ZONE.
  - CLEARLY LOCATE RELAY LOCATIONS ON AS-BUILT DRAWINGS.
- 6 PROVIDE A SUITABLY SIZED CONTACTOR (CONFIRM EXACT VOLTAGE, AMPACITY, ETC. REQUIRED ON SITE) UPSTREAM OF THE KILN DISCONNECT SWITCH. PROVIDE BRANCH/CONTROL WIRING FROM THE KILN ROOM EXHAUST FAN STARTER, SO THAT THE KILNS CANNOT BE ENERGIZED UNLESS THE EXHAUST FAN IS RUNNING.

**DESIGNATIONS:**

EXISTING CEILING MOUNTED DEVICES WITH THE 'MOD' DESIGNATION SHALL BE TEMPORARILY DISCONNECTED AND REMOVED TO PERMIT MECHANICAL INSTALLATIONS AND REINSTALLED IN THE SAME LOCATIONS.

**ABATEMENT:**

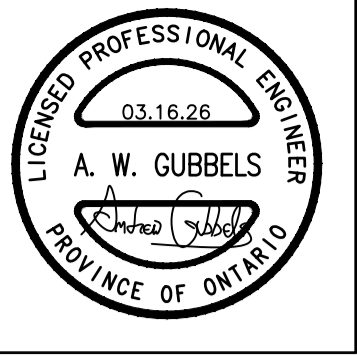
INCLUDE THE COST OF RETAINING AN OWNER-APPROVED SUBCONTRACTOR FOR THE ABATEMENT OF ALL ASBESTOS CONTAINING MATERIAL (ACM) WITHIN A 600mm RADIUS OF ANY ELECTRICAL WORK. REFER TO THE OWNER'S DESIGNATED SUBSTANCES REPORT.

**DEMOLITION:**

REFER TO THE ELECTRICAL SPECIFICATIONS FOR PROCEDURE REGARDING EQUIPMENT BEING DELETED. OWNERS HAVE FIRST RIGHT OF REFUSAL.

**EXISTING MECHANICAL EQUIPMENT:**

MECHANICAL EQUIPMENT INDICATED TO BE DELETED SHALL BE REMOVED BY THE MECHANICAL SUBCONTRACTOR.  
 • UNLESS OTHERWISE INDICATED, THE ELECTRICAL SUBCONTRACTOR SHALL DISCONNECT AND REMOVE ALL LINE VOLTAGE POWER WIRING BACK TO POINT(S) OF DISTRIBUTION. INCLUDE FOR DISCONNECTING ALL LINE VOLTAGE FEEDS TO CONTROL DEVICES.  
 • ALL LOW VOLTAGE CONTROL CABLING SHALL BE REMOVED BY THE MECHANICAL SUBCONTRACTOR.



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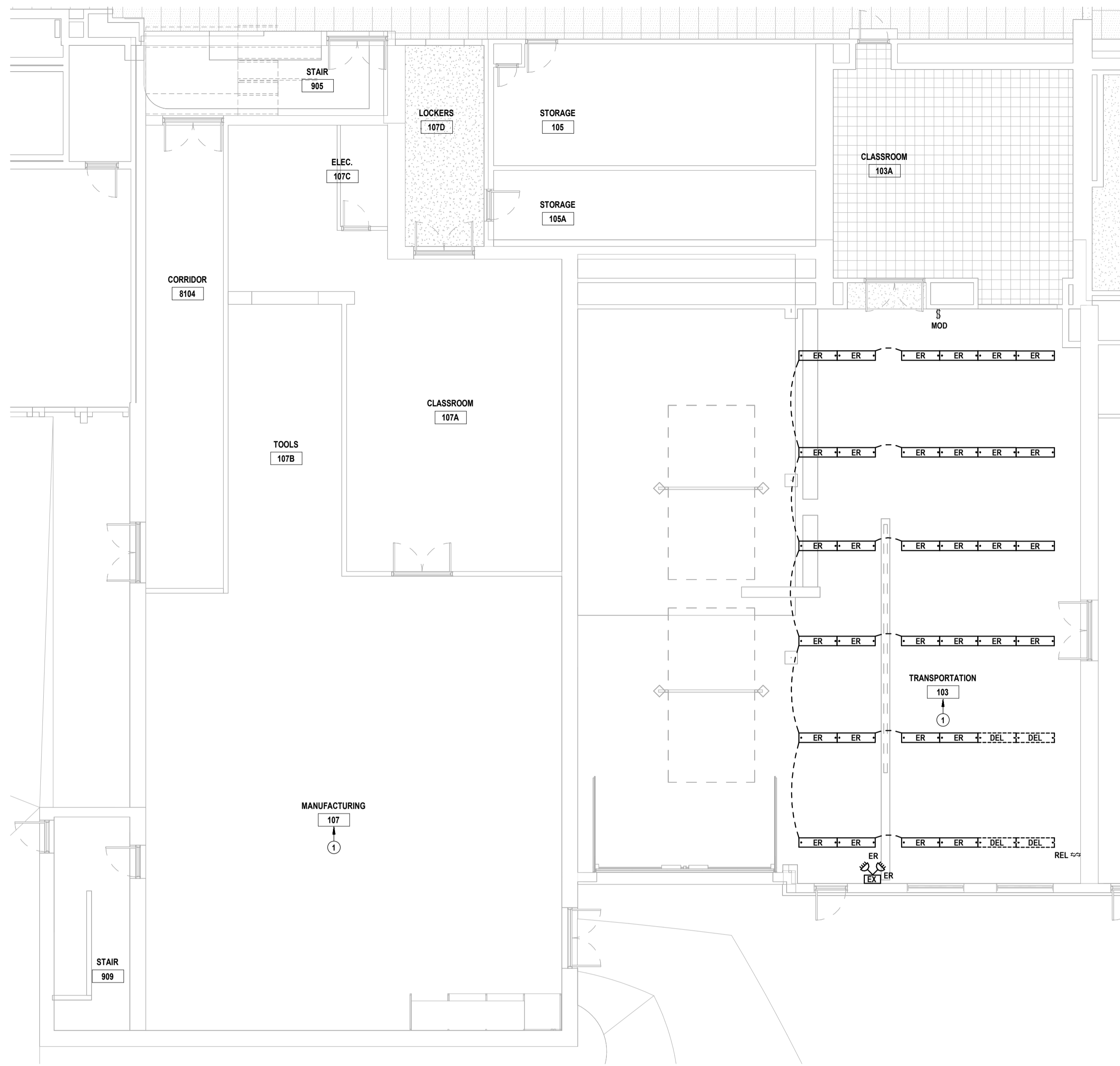


**Galt Collegiate Institute**  
200 WATER STREET NORTH, CAMBRIDGE ON N1R 1H6  
PROJECT B - PARTIAL THIRD/FOURTH FLOORS & ROOF ELECTRICAL PLANS  
BOILER REPLACEMENT AND HAV UPGRADES - PHASE 2

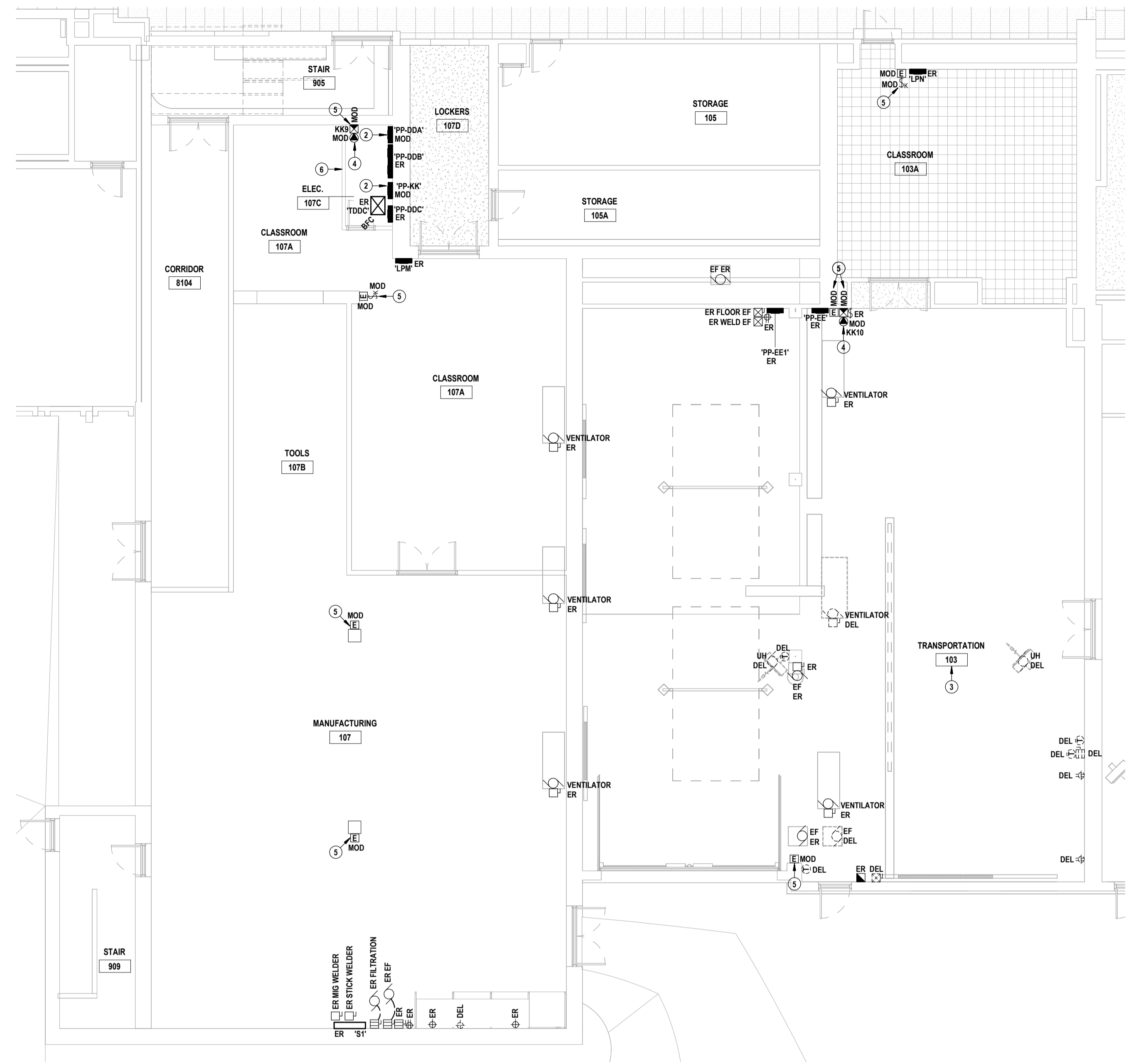
Checked By: A.W.G.  
Drawn By: J.A.G.

Project No.: 23053

E3.2



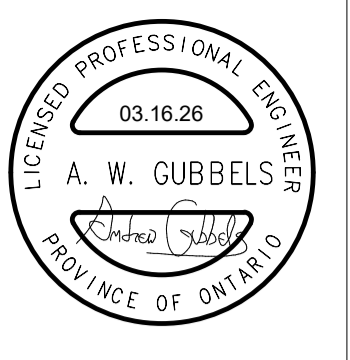
1 EXISTING FIRST FLOOR LIGHTING PLAN  
E4.1 SCALE: 1:100



2 EXISTING FIRST FLOOR POWER PLAN  
E4.1 SCALE: 1:100

**EXISTING DRAWING NOTES**

- 1 REWORK EXISTING LIGHTING CIRCUIT(S) AND WIRING FOR NEW LUMINAIRES.
  - 2 REFER TO SINGLE LINE DIAGRAM FOR ELECTRICAL DISTRIBUTION MODIFICATIONS.
  - 3 REWORK EXISTING CEILING-MOUNTED DEVICES, LUMINAIRES AND DECK MOUNTED SERVICES (NOT ALL INDICATED) TO PERMIT MECHANICAL & STRUCTURAL MODIFICATIONS. REMOVE AND RE-INSTALL AS REQUIRED.
  - 4 MAINTAIN EXISTING PROGRAMMABLE LOGIC CONTROLLER (PLC).
    - PROVIDE NEW CURRENT SENSING RELAYS ON PANEL FEEDERS FOR PHASE MONITORING.
    - CONNECT CURRENT SENSING RELAYS TO AVAILABLE PLC INPUTS.
    - REPROGRAM PLC LOGIC TO MONITOR AND CONTROL PANEL SHUTDOWNS.
  - 5 MAINTAIN EXISTING ROOM SHUTDOWN CONTROLS. EXTEND CONTROL WIRING FROM EXISTING CONTACTOR TO NEW CONTACTOR CONTROLLING NEW PANEL.
  - 6 MODIFICATIONS TO EXISTING WOOD STUD WALL BY GENERAL TRADES TO SUPPORT NEW DISTRIBUTION EQUIPMENT.
- DESIGNATIONS FOR EXISTING DRAWINGS:**
- DEVICES & LUMINAIRES ARE TO BE REWORKED (GENERALLY TEMPORARILY REMOVED AND REINSTALLED IN THE SAME LOCATION) TO ACCOMMODATE MECHANICAL AND STRUCTURAL REVISIONS. COORDINATE EXACT REQUIREMENTS ON SITE.
- EXISTING MECHANICAL EQUIPMENT:**
- MECHANICAL EQUIPMENT INDICATED TO BE DELETED SHALL BE REMOVED BY MECHANICAL TRADES.
- UNLESS OTHERWISE INDICATED, THE ELECTRICAL SUBCONTRACTOR SHALL DISCONNECT & REMOVE ALL LINE VOLTAGE POWER WIRING BACK TO POINT OF DISTRIBUTION. INCLUDE FOR DISCONNECTING ALL LINE VOLTAGE FEEDS TO CONTROL DEVICES.
  - ALL LOW VOLTAGE CONTROL CABLING SHALL BE REMOVED BY MECHANICAL TRADES.



MNE Engineering Inc.  
22 Keeco Place - Box A  
Kitchener, Ontario N2C2G5  
(519) 994-9408  
www.mneengineering.ca



**Galt Collegiate Institute**  
200 WATER ST NORTH, CAMBRIDGE, ON N1R 1H6  
PROJECT C - PARTIAL EXISTING FIRST FLOOR ELECTRICAL PLANS  
BOILER REPLACEMENT AND HAV UPGRADES - PHASE 2

Project No.: 23053  
Drawn By: A.W.T.  
Checked By: A.W.G.

ISSUED FOR PERMIT & BID 2025-08-29  
ISSUED FOR BID #26-7860RFT 2025-03-17

