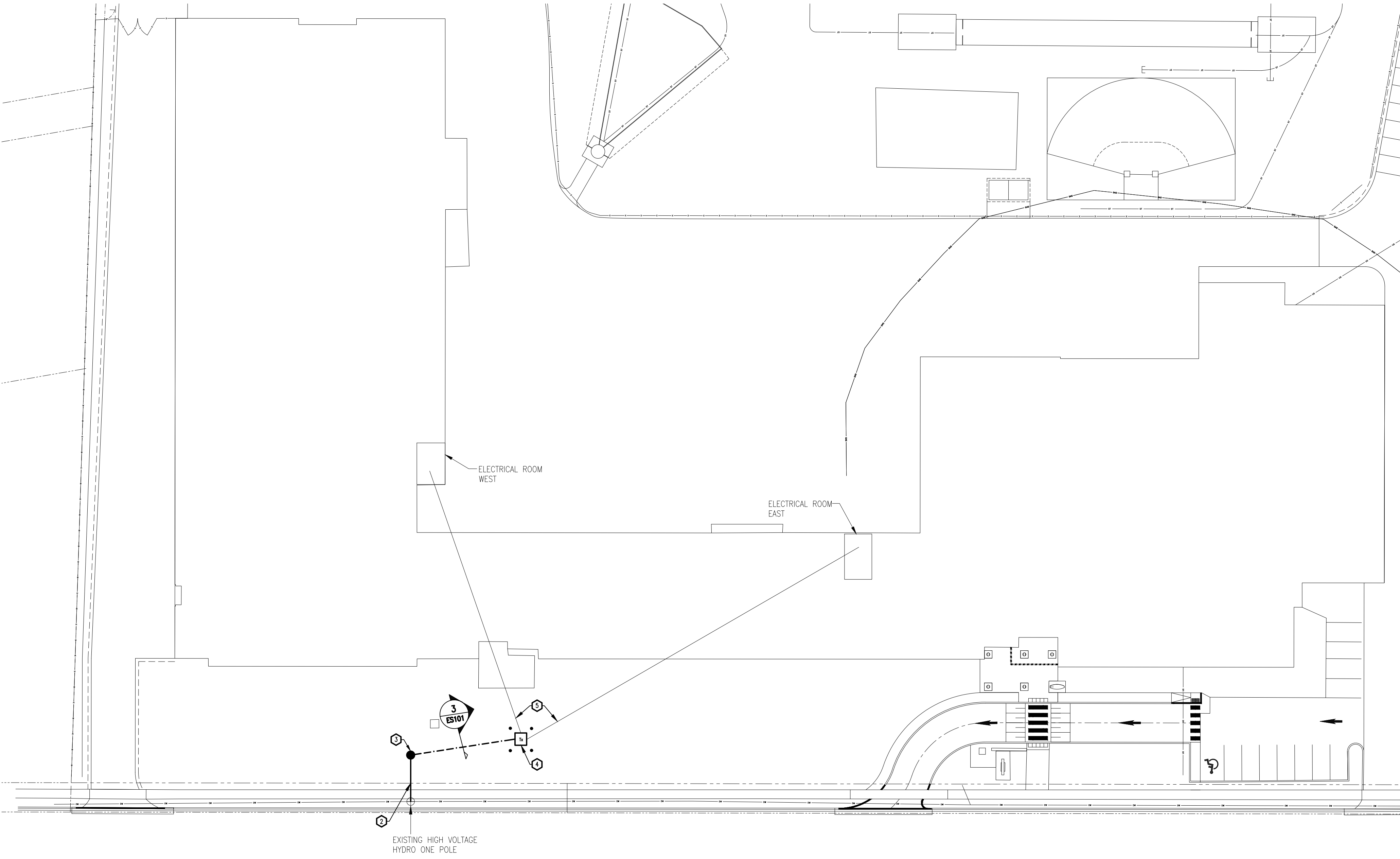


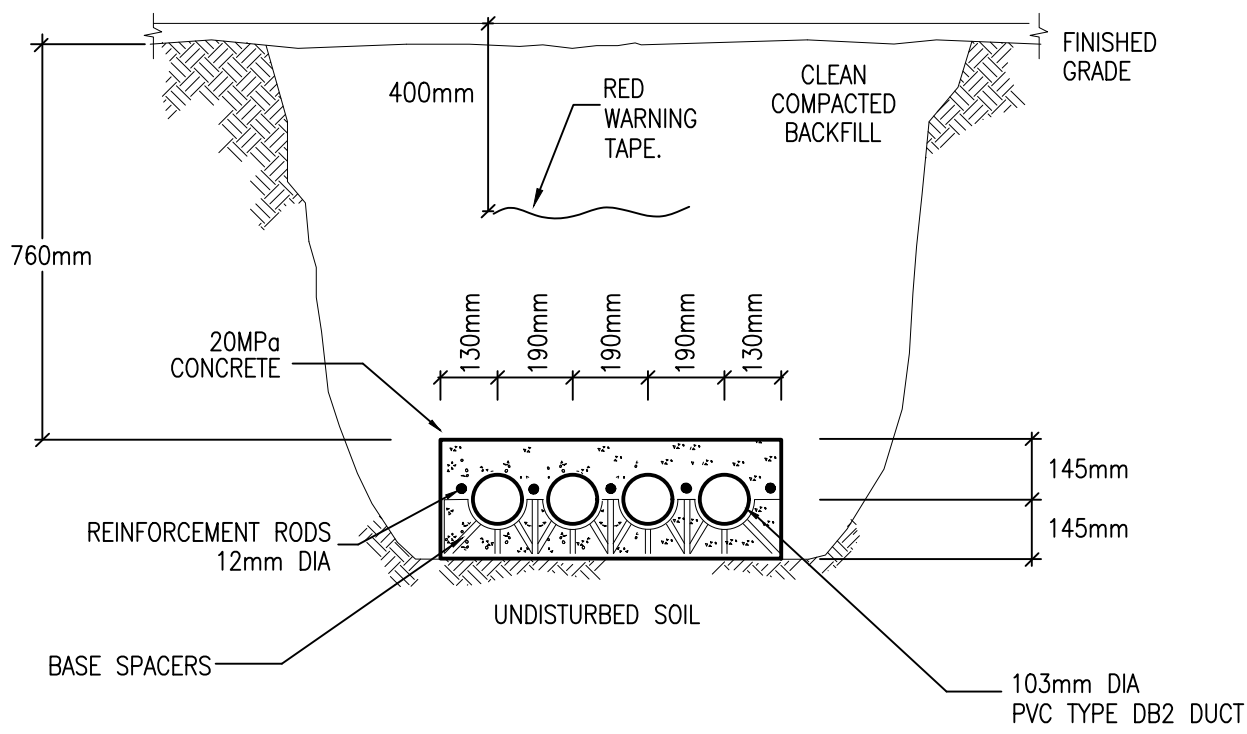
1  
ES101 SITE PLAN - DEMOLITION



2  
ES101 SITE PLAN - NEW

DRAWING NOTES

- 1 REMOVE EXISTING WOOD POLE AND OVERHEAD WIRING BACK TO HYDRO POLE. MAINTAIN TWO EXISTING UNDERGROUND DUCTS TO EAST AND WEST ELECTRICAL ROOMS.
- 2 PROVIDE OVERHEAD SERVICE CABLES FROM HYDRO ONE POLE TO CUSTOMER OWNED POLE ON PROPERTY AS SHOWN. ALLOW FOR AN ADDITIONAL SUFFICIENT AMOUNT OF CABLES COILED AT TOP OF HYDRO POLE TO ALLOW FOR CONNECTIONS. HYDRO ONE TO MAKE FINAL CONNECTIONS AND PROVIDE TERMINATIONS AT TOP OF HYDRO ONE POLE.
- 3 PROVIDE 16.8m (55'-0") CLASS L CONCRETE POLE USI#HA-550-L-1-PG AND LOAD BREAK 3 POLE GANG OPERATED SWITCH. POLE TO BE BURIED MINIMUM 2.59m (8'-6") IN THE GROUND WITH ENGINEERED BASE TO SUIT EQUIPMENT WEIGHT. PROVIDE USI W SERIES ENTRY BOXES AND RUN LOAD WIRING INSIDE POLE. TRANSITION FROM UNDERGROUND SERVICES TO LOAD BREAK SWITCH AND DIP BACK DOWN TO UNDERGROUND SERVICES AT THIS LOCATION. PROVIDE GROUNDING AND CABLE GUARDS AS PER SPECIFICATIONS AND AS PER OESC REQUIREMENTS.
- 4 PROVIDE NEW CUSTOMER OWNED TRANSFORMER C/W PRECAST PAD AND SWITCHING MANHOLE. REFER TO SPECIFICATIONS. COORDINATE WORK WITH HYDRO ONE AND INSPECTION AUTHORITY. PROVIDE PROTECTIVE BOLLARDS AROUND TRANSFORMER EQUAL TO USI E-90 SERIES.
- 5 UTILIZE EXISTING WIRING FROM EAST AND WEST ELECTRICAL ROOMS AND CONNECT TO NEW PADMOUNT TRANSFORMER.



NOTE: REINSTATE GRASS IN AREA OF NEW TRENCH

3  
ES101 TRENCH DETAIL - PRIMARY 4 CELL CONCRETE ENCASED

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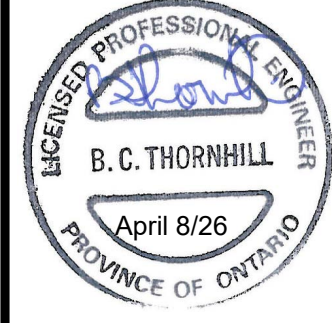
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1.	ISSUED FOR 30% REVIEW	MAY 02/25

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PROJECT:  
TISS - MECHANICAL REPLACEMENT  
2510 PARKEDALE AVE  
BROCKVILLE, ON

DRAWING:  
ELECTRICAL:  
SITE PLAN

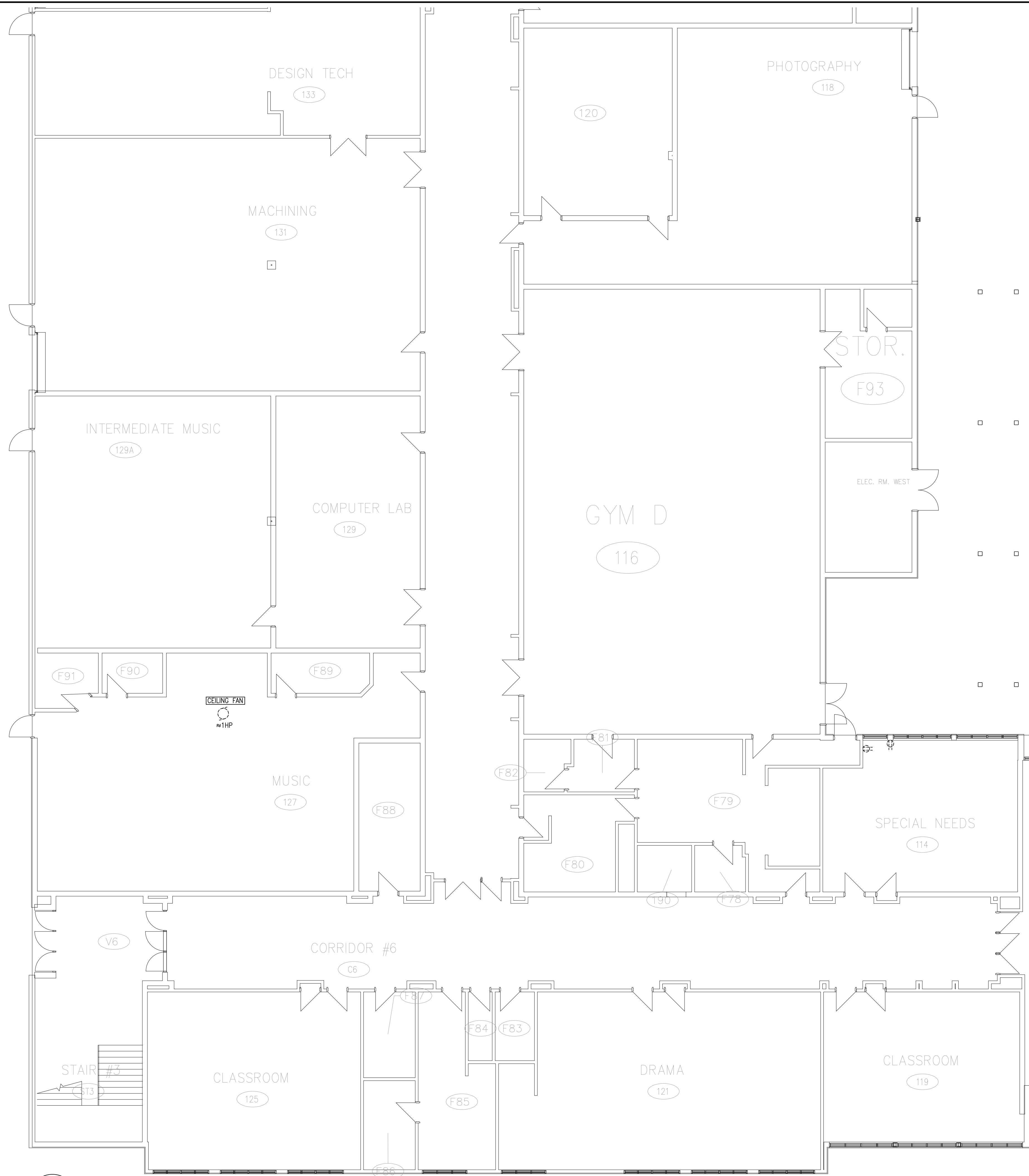


DATE: APRIL 2025  
DESIGNED BY: J.F.B.  
DRAWN BY: J.F.B.  
CHECKED BY: B.T.

No. DWGS: 26  
PROJECT No. 25020

DRAWING No. ES101





1  
ED101

GROUND FLOOR PART 2 – DEMOLITION

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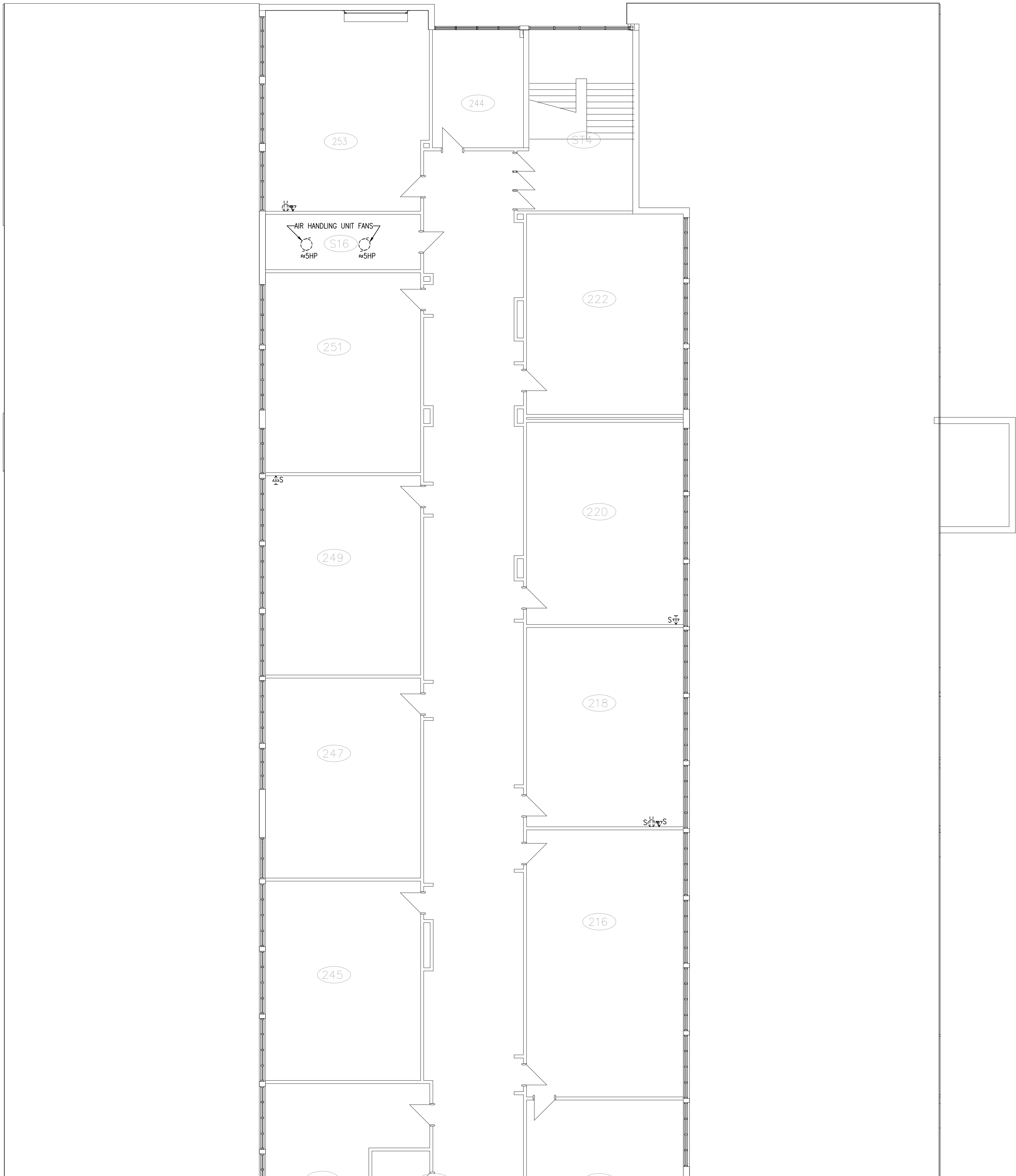
PROJECT:  
TISS – MECHANICAL REPLACEMENT  
2510 PARKEDALE AVE  
BROCKVILLE, ON

DRAWING:  
ELECTRICAL:  
GROUND FLOOR PART 2 –  
DEMOLITION

	DATE: APRIL 2025
	DESIGNED BY: J.F.B.
	DRAWN BY: J.F.B.
	CHECKED BY: B.T.
SCALE: 1:100	

No. DWGS: 26	DRAWING No.
PROJECT No. 25020	<b>ED101</b>





1  
ED103 SECOND FLOOR PART 1 – DEMOLITION

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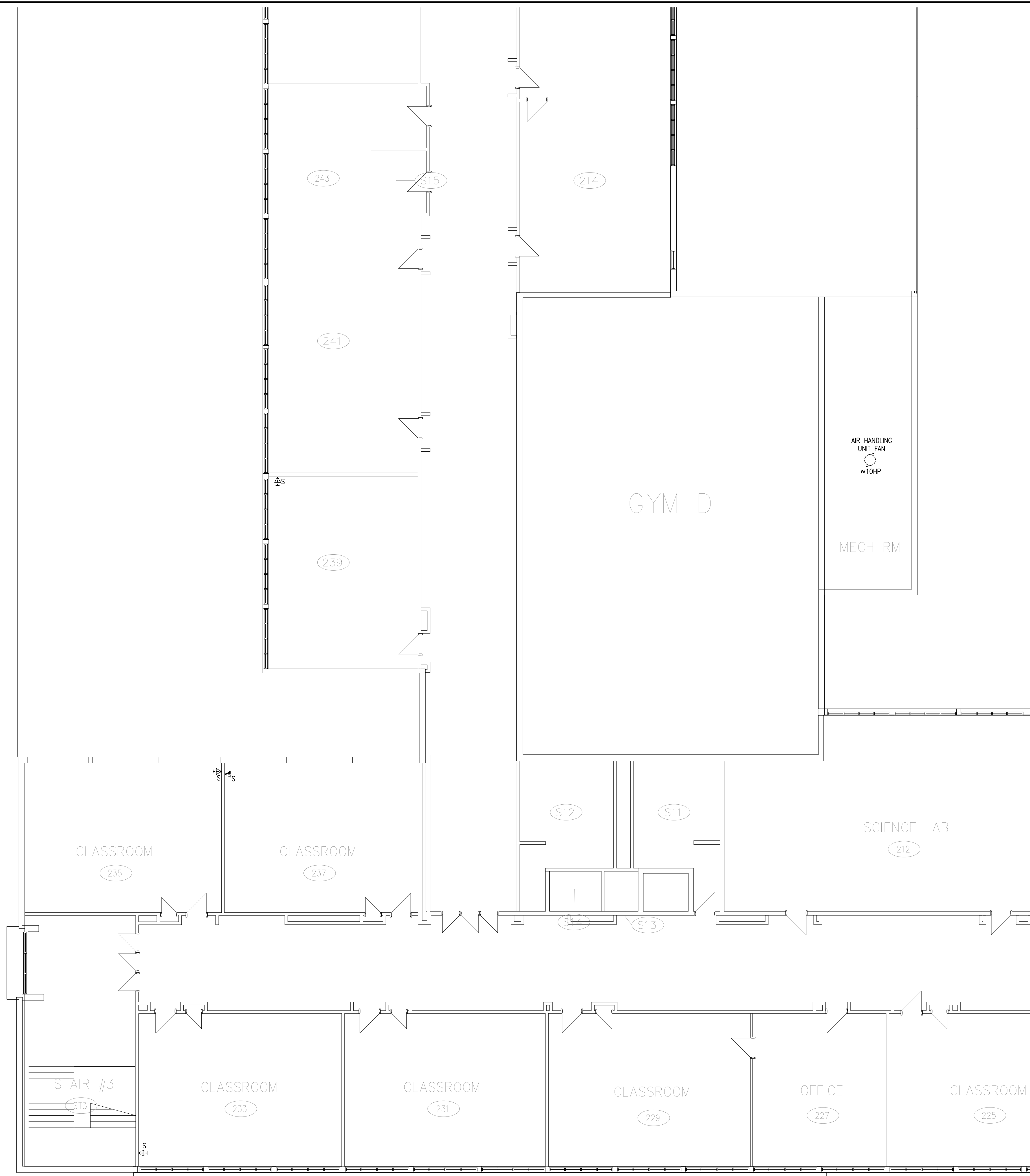
PROJECT:  
TISS – MECHANICAL REPLACEMENT  
2510 PARKEDALE AVE  
BROCKVILLE, ON

DRAWING:  
ELECTRICAL:  
SECOND FLOOR PART 1 –  
DEMOLITION

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	DRAWN BY: J.F.B.
	CHECKED BY: B.T.
SCALE: 1:100	

No. DWGS. 26	DRAWING No.
PROJECT No. 25020	ED103






1  
ED104 SECOND FLOOR PART 2 – DEMOLITION

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TISS – MECHANICAL REPLACEMENT  
2510 PARKEDALE AVE  
BROCKVILLE, ON

DRAWING:  
ELECTRICAL:  
SECOND FLOOR PART 2 –  
DEMOLITION



APRIL 8/26

DATE: APRIL 2025

DESIGNED BY: J.F.B.

DRAWN BY: J.F.B.

CHECKED BY: B.T.

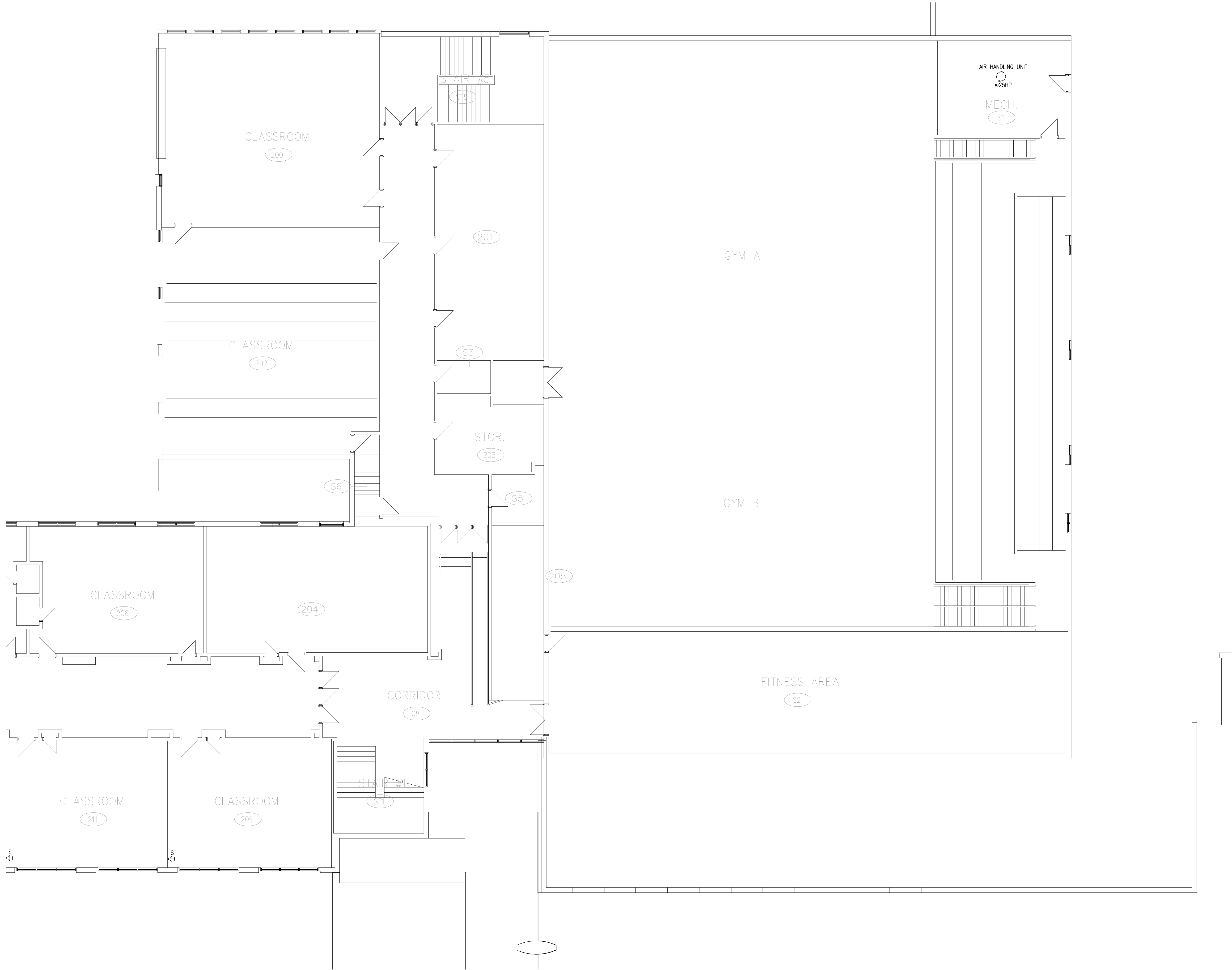
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No. DWGS. 26

PROJECT No. 25020

DRAWING No.

**ED104**



1 SECOND FLOOR PART 4 – DEMOLITION  
ED105

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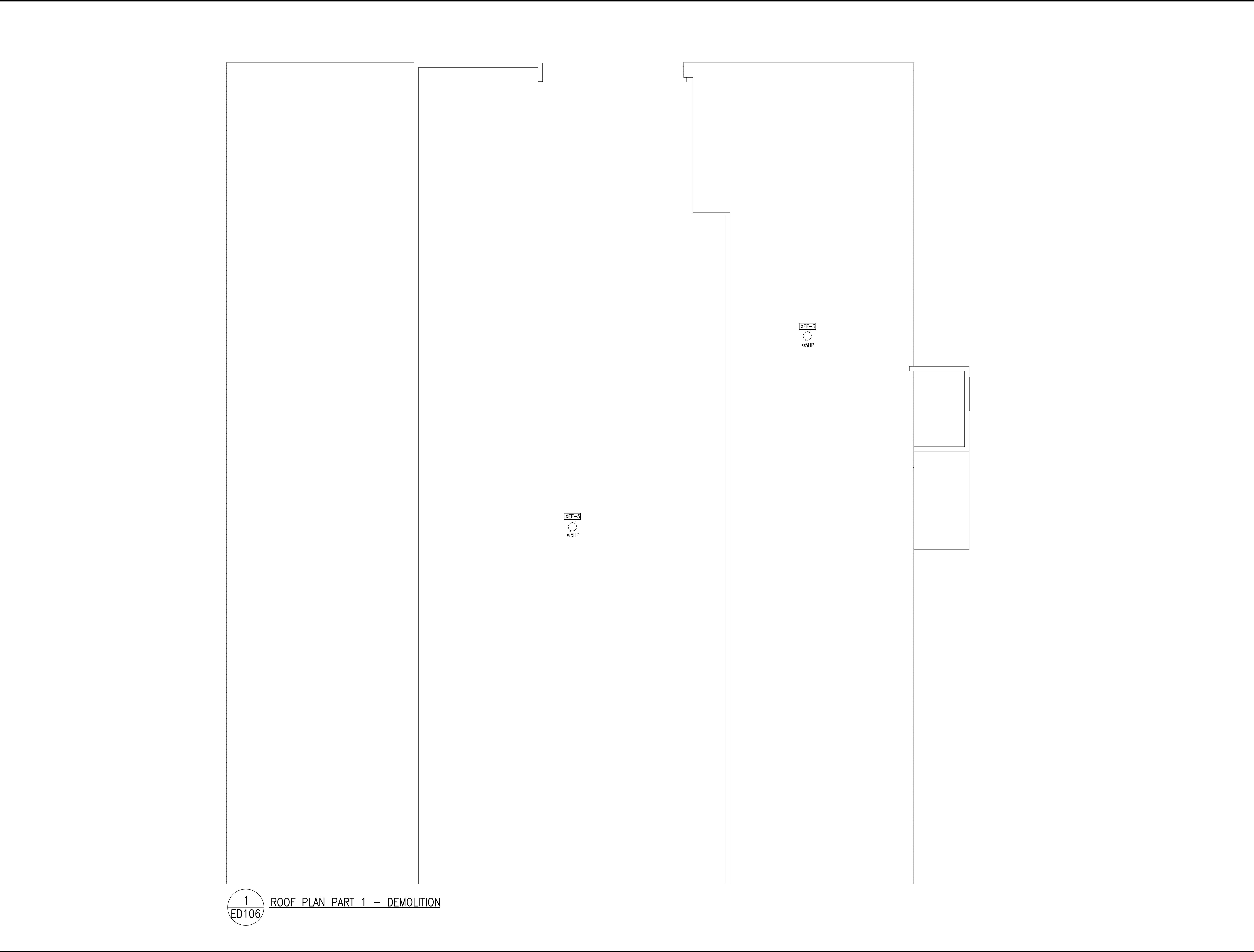
DRAWING:  
ELECTRICAL:  
SECOND FLOOR PART 4 –  
POWER



DATE: APRIL 2025  
DESIGNED BY: J.F.B.  
DRAWN BY: J.F.B.  
CHECKED BY: B.T.  
SCALE: 1:100

No. DWGS: 26  
PROJECT No. 25020


DRAWING No.  
**ED105**



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BROCKVILLE, ON

DRAWING:  
ELECTRICAL:  
ROOF PLAN PART 1 –  
DEMOLITION



**B.C. THORNHILL**  
April 8/26  
PROVINCE OF ONTARIO

DATE: **APRIL 2025**

DESIGNED BY: **J.F.B.**

DRAWN BY: **J.F.B.**

CHECKED BY: **B.T.**

SCALE: **1:100**

No. DWGS. <b>26</b>	DRAWING No.
PROJECT No. <b>25020</b>	<b>ED106</b>





1  
ED107 ROOF PLAN PART 3 – DEMOLITION

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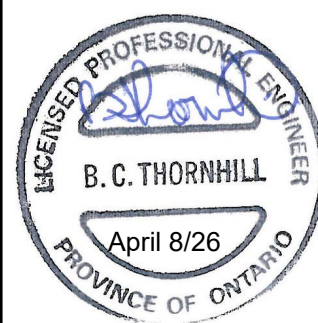
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DRAWING:  
ELECTRICAL:  
ROOF PLAN PART 3 –  
DEMOLITION



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No. DWGS. 26  
PROJECT No.


25020

DRAWING No.

ED107



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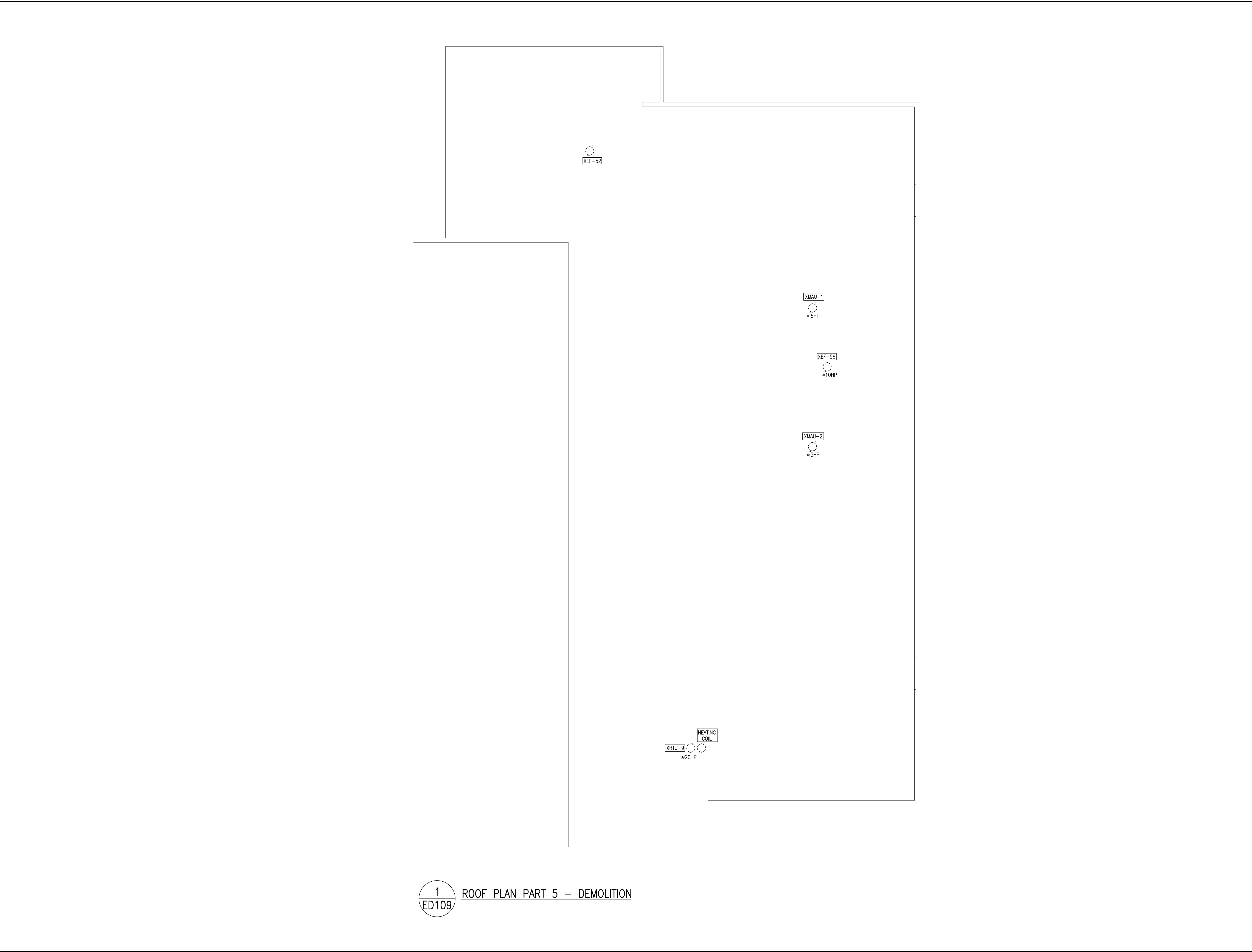
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DRAWING:  
ELECTRICAL:  
ROOF PLAN PART 4 -  
DEMOLITION




ED108



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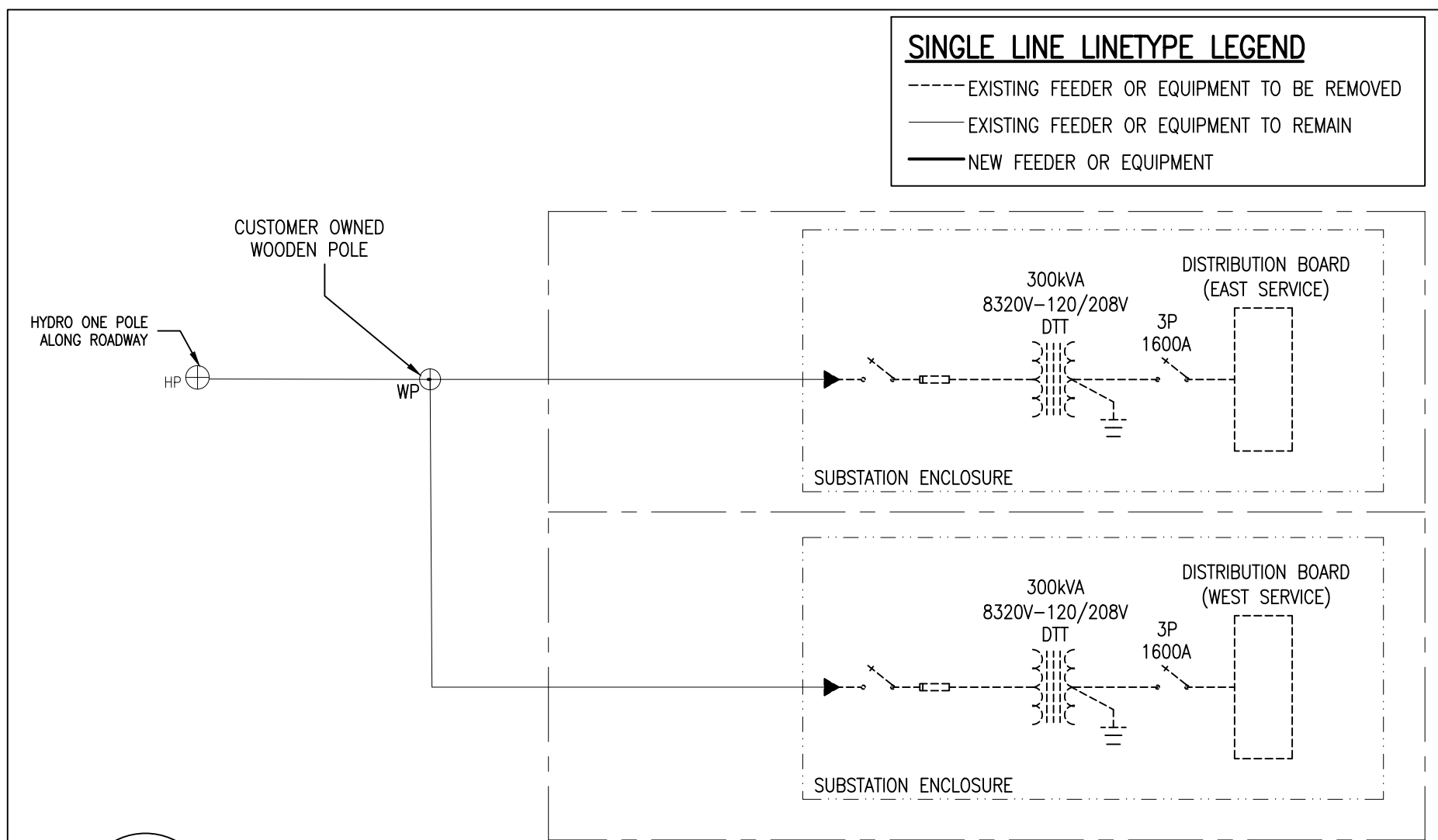
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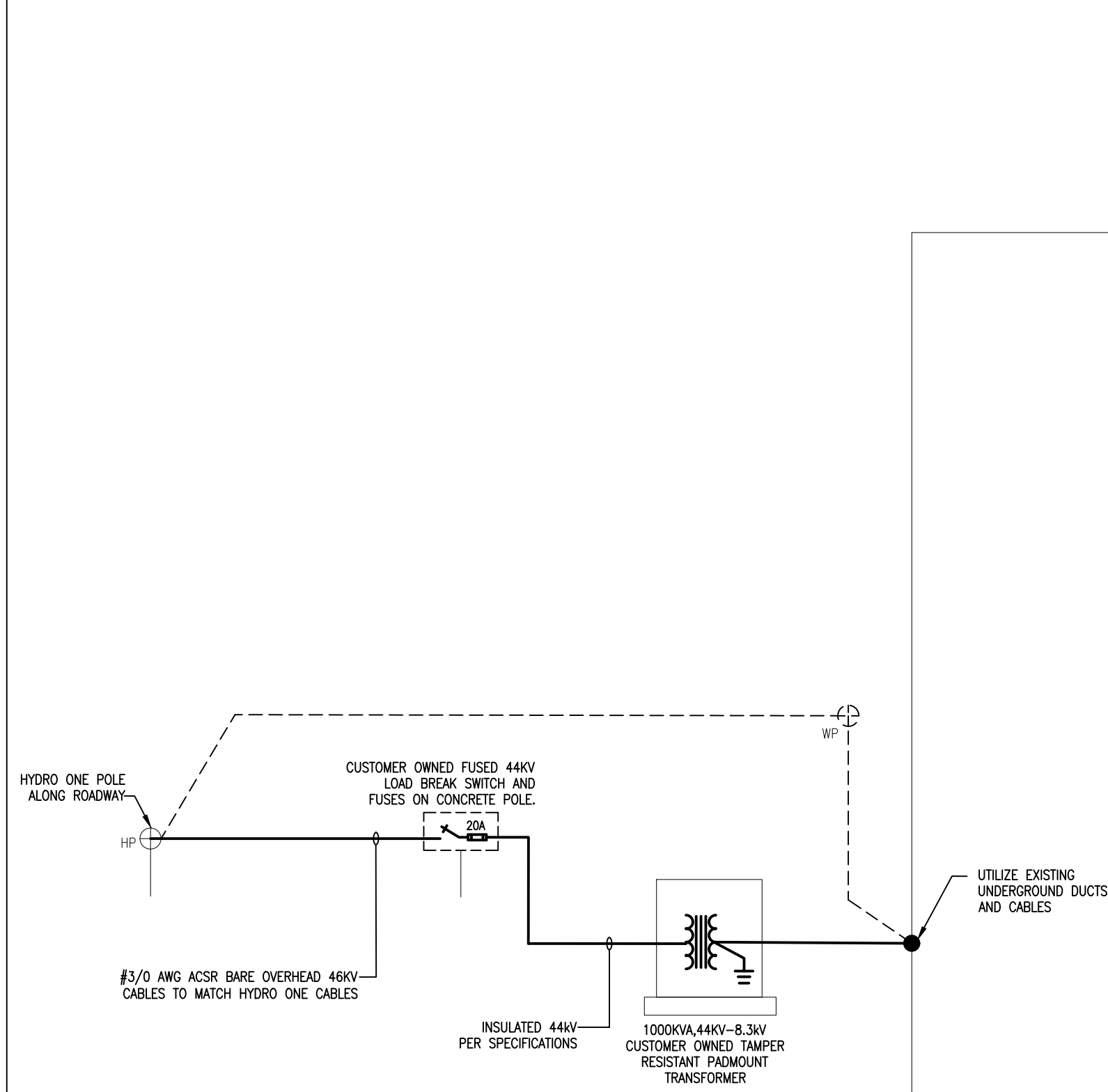
DRAWING:  
ELECTRICAL:  
ROOF PLAN PART 5 –  
DEMOLITION

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	DESIGNED BY: <b>J.F.B.</b>
	DRAWN BY: <b>J.F.B.</b>
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	SCALE: <b>1:100</b>
No. DWGS. <b>26</b>	DRAWING No.
PROJECT No. <b>25020</b>	<b>ED109</b>





1  
E001 SINGLE LINE DIAGRAM – DEMOLITION  
N.T.S.



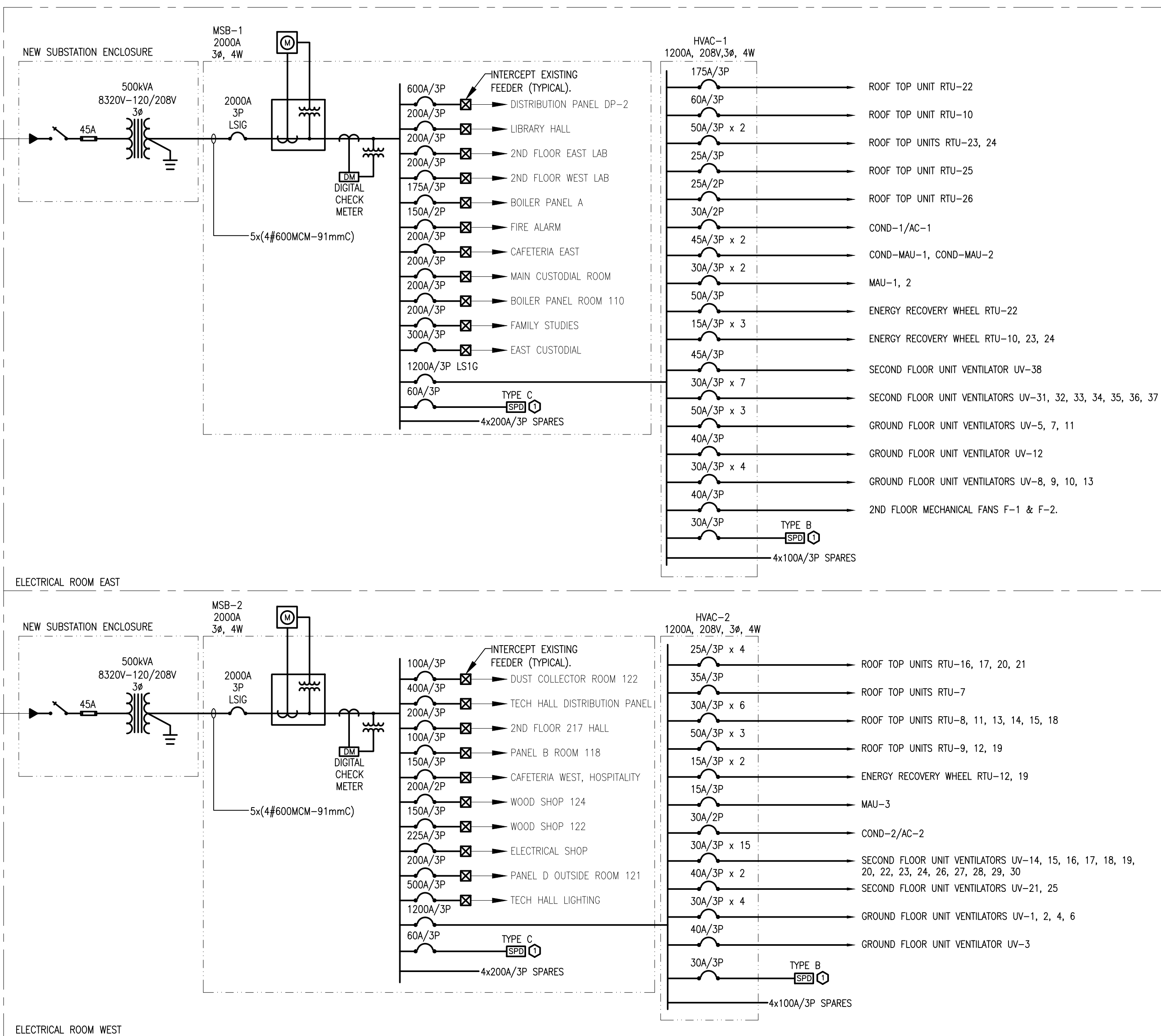
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E001 SINGLE LINE DIAGRAM – NEW  
N.T.S.

**DRAWING NOTES**

① SURGE PROTECTION LEADS SHALL BE AS SHORT AND STRAIGHT AS POSSIBLE. SURGE PROTECTION DEVICE SHALL BE INSTALLED INTEGRAL TO DISTRIBUTION EQUIPMENT WHERE POSSIBLE USING 3/10–21MMC. CIRCUIT BREAKER SIZE IS CONCEPTUAL. PROVIDE REQUIRED CIRCUIT BREAKER TO SUIT MANUFACTURER'S RECOMMENDATIONS.

**SINGLE LINE LINETYPE LEGEND**

-----EXISTING FEEDER OR EQUIPMENT TO BE REMOVED  
—EXISTING FEEDER OR EQUIPMENT TO REMAIN  
—NEW FEEDER OR EQUIPMENT



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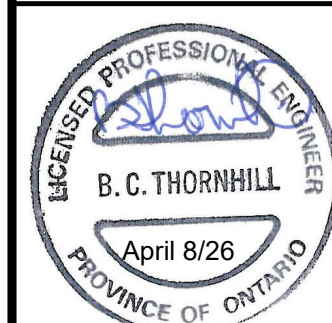
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PROJECT:  
TISS – MECHANICAL REPLACEMENT  
2510 PARKDALE AVE  
BROCKVILLE, ON

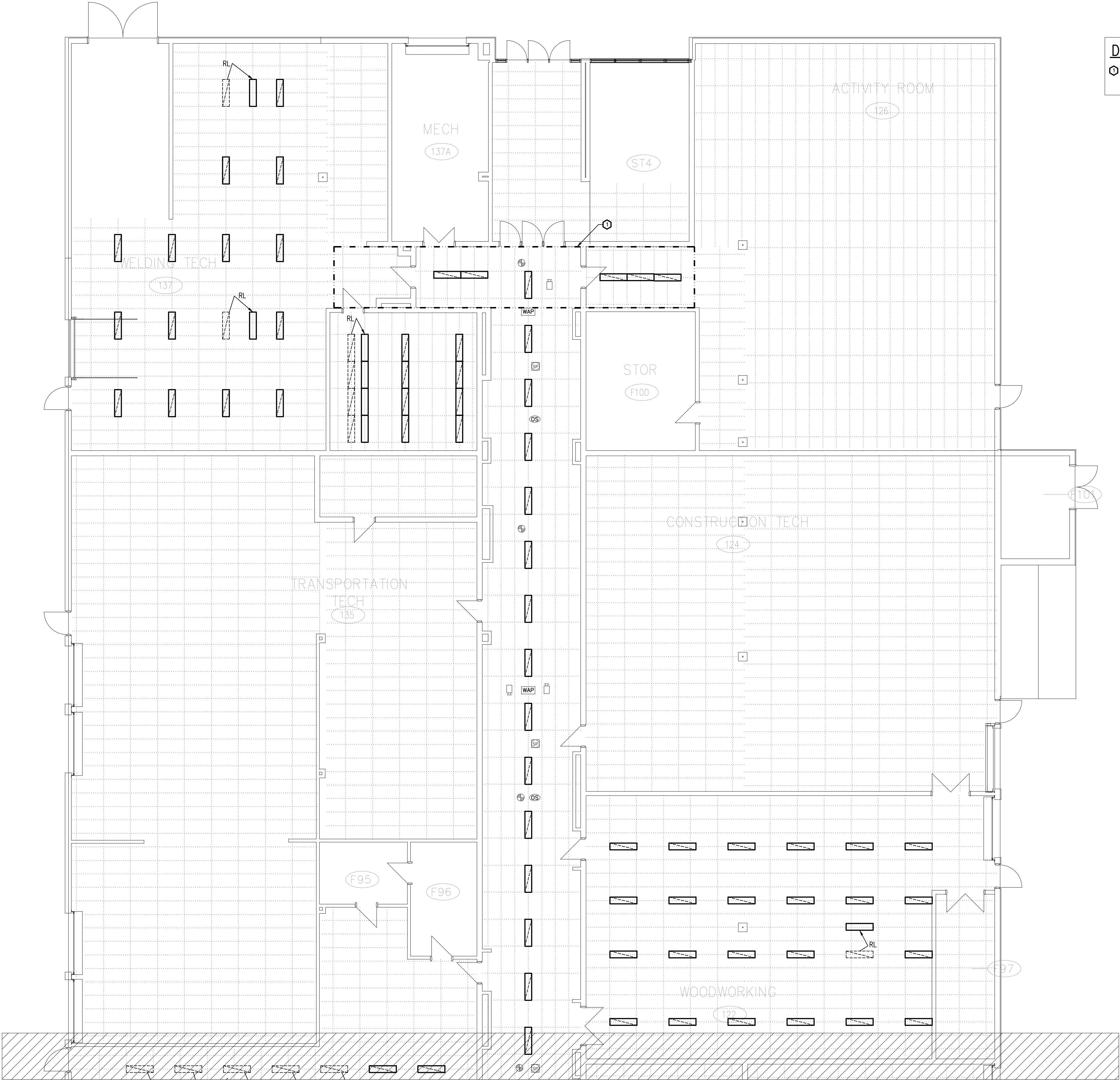
DRAWING:  
ELECTRICAL:  
SINGLE LINE DIAGRAM



DATE: APRIL 2025  
DESIGNED BY: J.F.B.  
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SCALE: N.T.S.

No. DWGS: 26  
PROJECT No.  
25020

DRAWING No.  
E001



**DRAWING NOTES**

⊖ REMOVE EXISTING CEILING MOUNTED DEVICES TO ALLOW FOR CEILING REMOVAL AND DUCTWORK INSTALLATION. RE-INSTALL IN PLACE ONCE WORK IS COMPLETE AND TEST.

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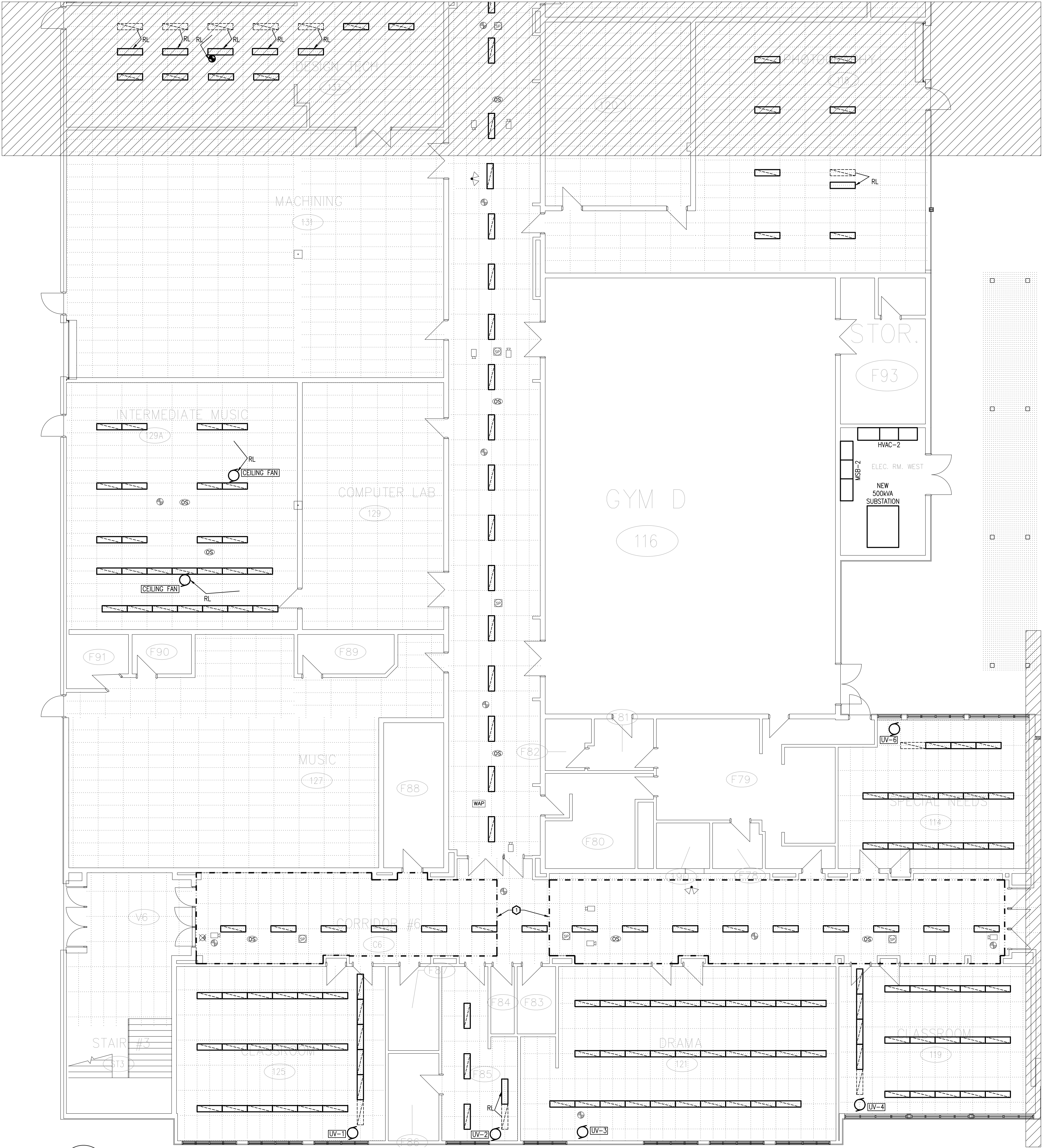
DRAWING:  
ELECTRICAL:  
GROUND FLOOR PART 1 –  
SYSTEMS

 DATE: APRIL 2025  
DESIGNED BY: J.F.B.  
DRAWN BY: J.F.B.  
CHECKED BY: B.T.  
SCALE: 1:100

No. DWGS. 26  
PROJECT No. 25020  
DRAWING No. E101

1  
E101 GROUND FLOOR PART 1 – SYSTEMS





DRAWING NOTES

1. REMOVE EXISTING CEILING MOUNTED DEVICES TO ALLOW FOR CEILING REMOVAL AND DUCTWORK INSTALLATION. RE-INSTALL IN PLACE ONCE WORK IS COMPLETE AND TEST.

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PROJECT:  
TISS - MECHANICAL REPLACEMENT  
2510 PARKDALE AVE  
BROCKVILLE, ON

DRAWING:  
ELECTRICAL:  
GROUND FLOOR PART 2 -  
SYSTEMS



DATE: APRIL 2025  
DESIGNED BY: J.F.B.  
DRAWN BY: J.F.B.  
CHECKED BY: B.T.

SCALE: 1:100

No. DWGS: 26

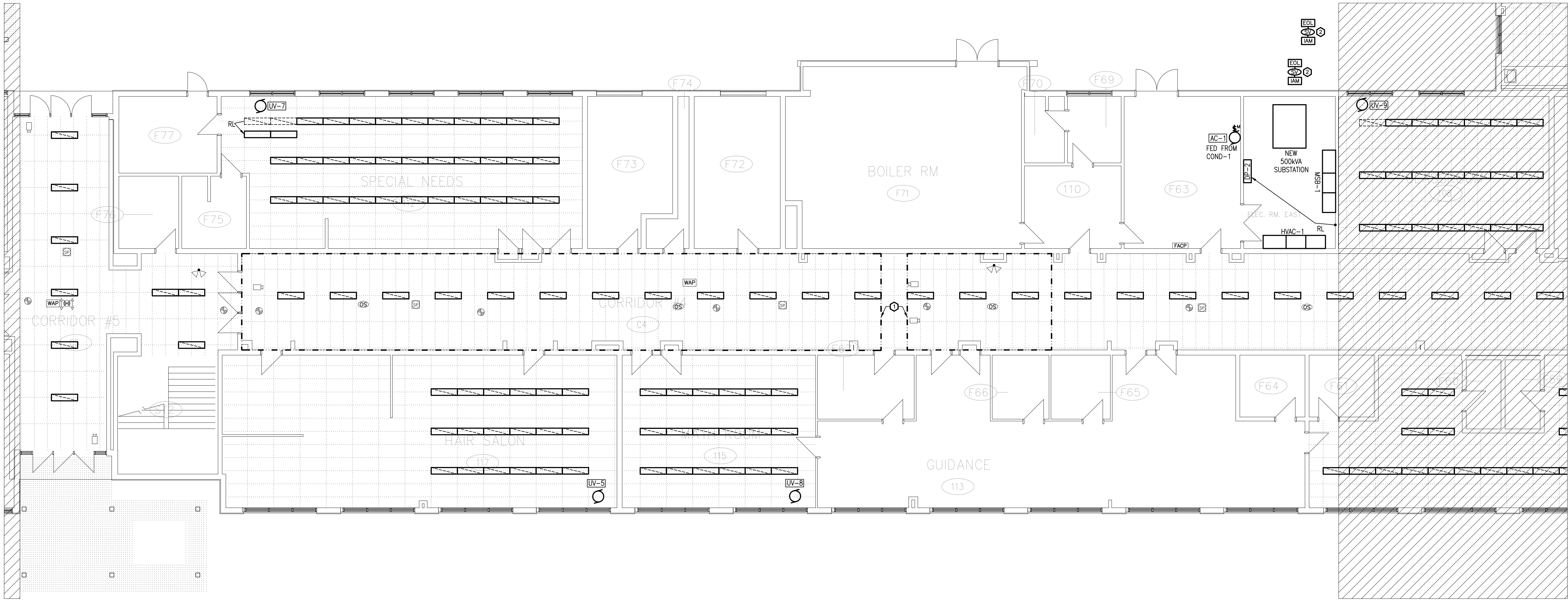
PROJECT No.

25020

DRAWING No.

E102





1  
E103

GROUND FLOOR PART 3 – SYSTEMS

- DRAWING NOTES**
- ① REMOVE EXISTING CEILING MOUNTED DEVICES TO ALLOW FOR CEILING REMOVAL AND DUCTWORK INSTALLATION. RE-INSTALL IN PLACE ONCE WORK IS COMPLETE AND TEST.
  - ② PROVIDE SUPERVISORY FIRE ALARM CONNECTIONS TO SUPERVISORY SWITCHES PROVIDED BY ENBRIDGE AT NEW ENBRIDGE NATURAL GAS MAIN SUPPLY VALVE, AND THE DOWNSTREAM NATURAL GAS VALVE TO THE OUTDOOR GENERATOR. CONNECT TO EXISTING SUPERVISORY ZONE IN EXISTING FIRE ALARM PANEL. ENSURE THE NEW SIGNAL CIRCUITS ANNOUNCE AS TROUBLE/SUPERVISORY.

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4.	ISSUED FOR 99% REVIEW	OCT 09/25
3.	ISSUED FOR 90% REVIEW	AUG 27/25
2.	ISSUED FOR 60% REVIEW	JUN 27/25
1.	ISSUED FOR 30% REVIEW	MAY 02/25

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Tel: (613) 723-9585  
Fax: (613) 723-9584  
www.mckeeottawa.ca

PROJECT:  
TISS – MECHANICAL REPLACEMENT  
2510 PARKEDALE AVE  
BROCKVILLE, ON

DRAWING:  
ELECTRICAL:  
GROUND FLOOR PART 3 –  
SYSTEMS

	DATE: APRIL 2025
	DESIGNED BY: J.F.B.
	DRAWN BY: J.F.B.
	CHECKED BY: B.T.
	SCALE: 1:100
No. DWGS. 26	DRAWING No.
PROJECT No. 25020	E103

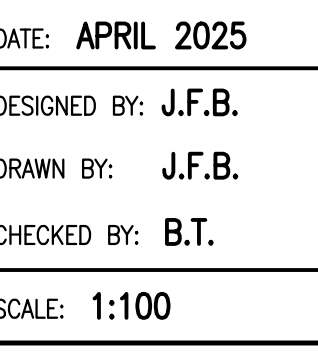


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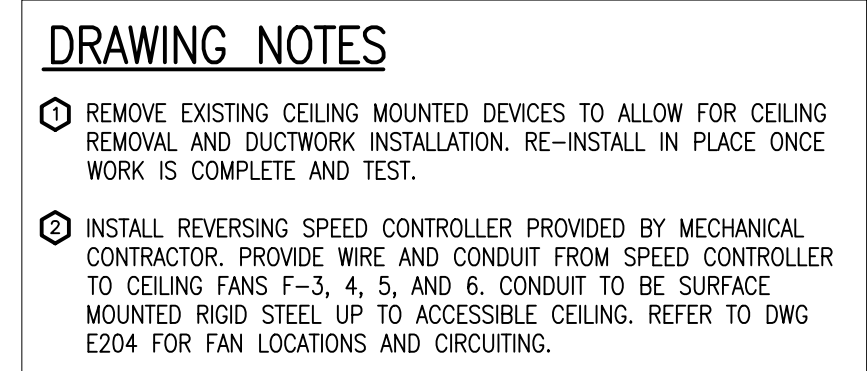
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Tel.:(613) 723-9585  
Fax.:(613) 723-9584  
[www.mckeeottawa.ca](http://www.mckeeottawa.ca)

DRAWING:  
ELECTRICAL:  
GROUND FLOOR PART 4 –  
SYSTEMS



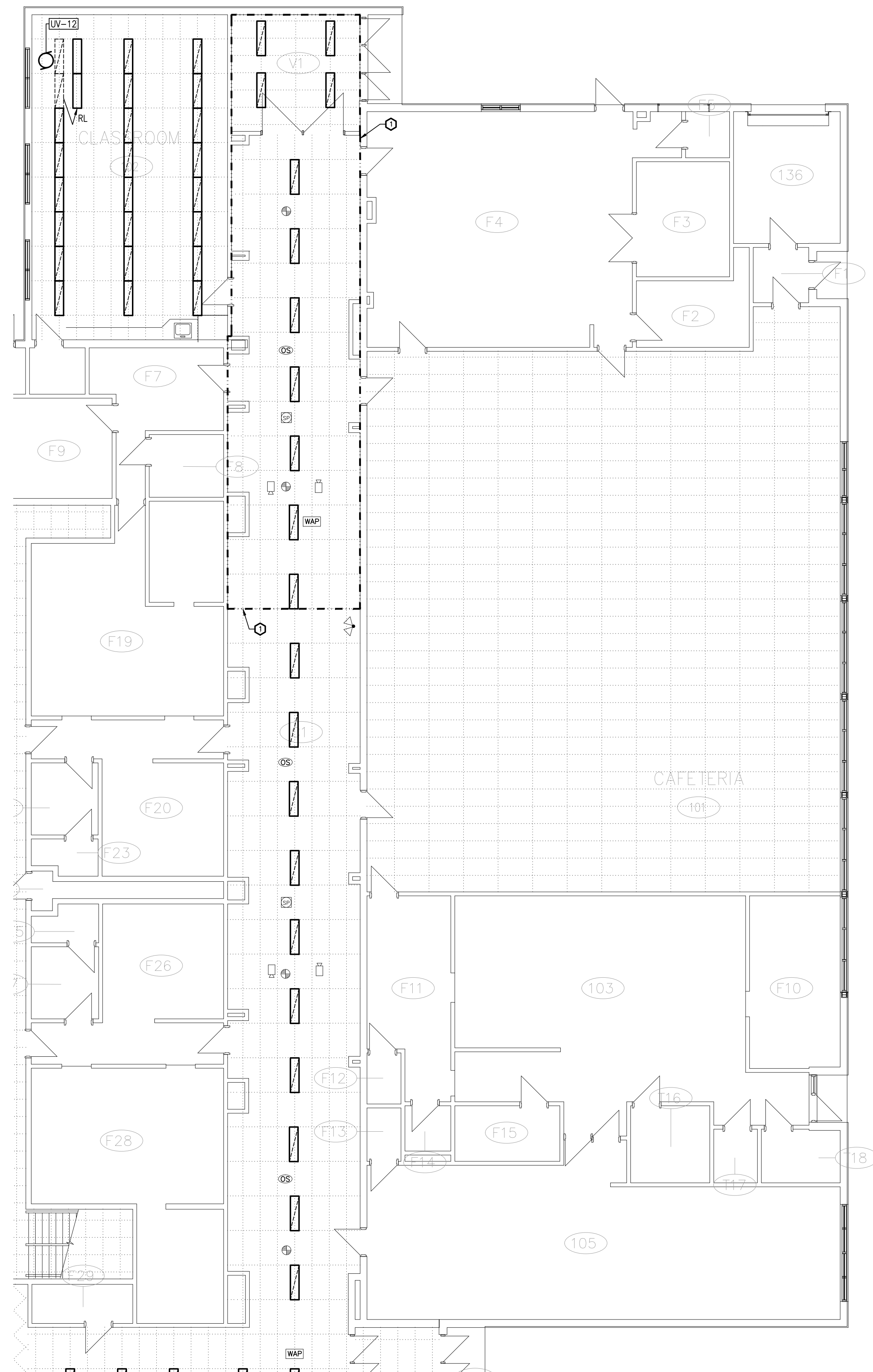
DRAWING No.

**E104**



1  
E104





1  
E105

GROUND FLOOR PART 5 – SYSTEMS

#### DRAWING NOTES

- ① REMOVE EXISTING CEILING MOUNTED DEVICES TO ALLOW FOR CEILING REMOVAL AND DUCTWORK INSTALLATION. RE-INSTALL IN PLACE ONCE WORK IS COMPLETE AND TEST.

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PROJECT:  
TISS – MECHANICAL REPLACEMENT  
2510 PARKEDALE AVE  
BROCKVILLE, ON

DRAWING:  
ELECTRICAL:  
GROUND FLOOR PART 5 –  
SYSTEMS



DATE: APRIL 2025  
DESIGNED BY: J.F.B.  
DRAWN BY: J.F.B.  
CHECKED BY: B.T.  
SCALE: 1:100

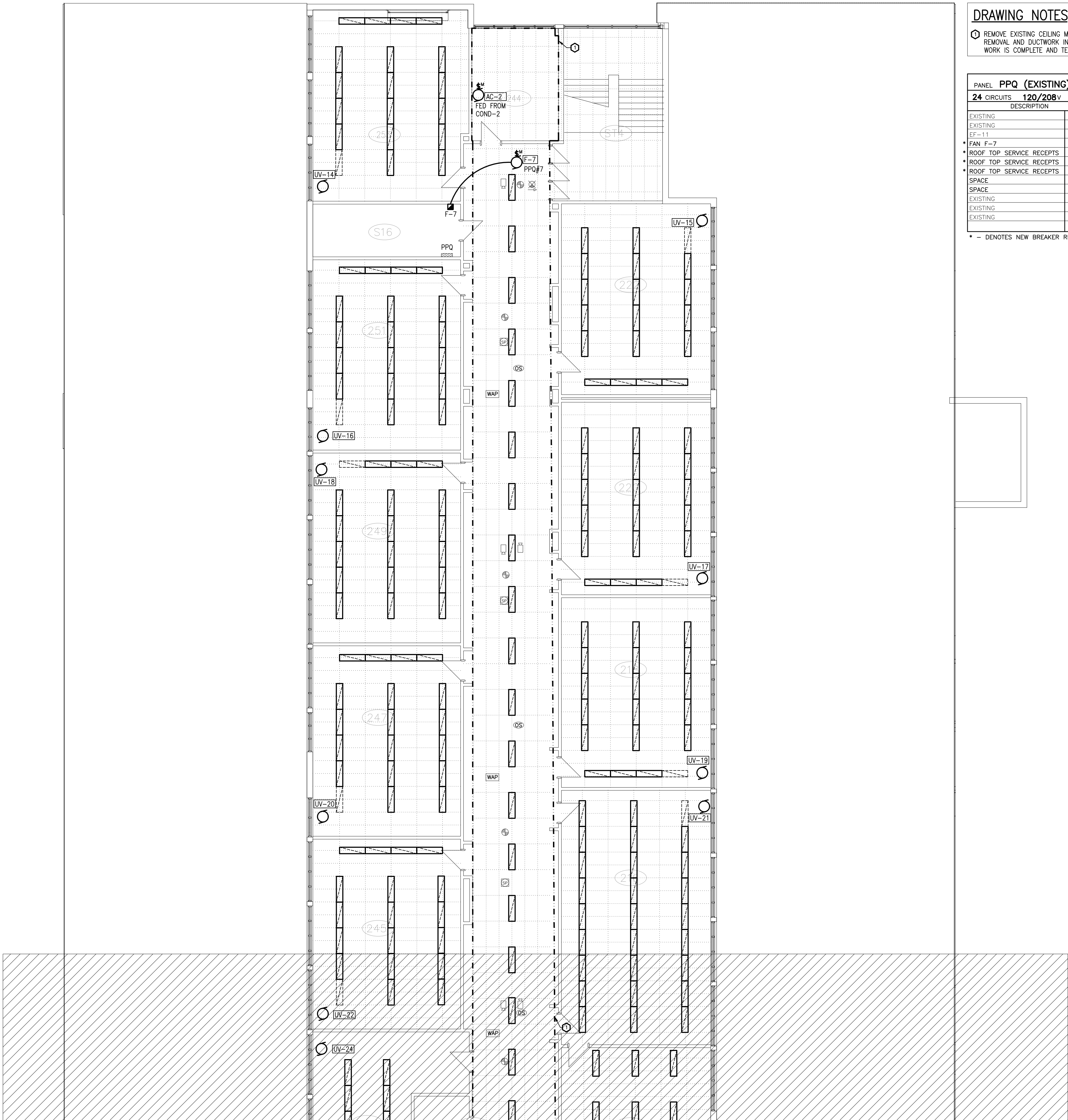
No. DWGS. 26  
PROJECT No.

25020

DRAWING No.

E105





DRAWING NOTES

○ REMOVE EXISTING CEILING MOUNTED DEVICES TO ALLOW FOR CEILING REMOVAL AND DUCTWORK INSTALLATION. RE-INSTALL IN PLACE ONCE WORK IS COMPLETE AND TEST.

PANEL PPQ (EXISTING) SQUARE D									
24 CIRCUITS		120/208V		3 PH		4 W		225 MAINS	
SURFACE MOUNTED									
DESCRIPTION	BR	CIR	A	B	C	CIR	BR	DESCRIPTION	
EXISTING	15	1				2	15	EXISTING	
EXISTING	15	3				4	15	EXISTING	
EF-11	15	5				6	15	EXISTING	
FAN F-7	15	7				8	20		
ROOF TOP SERVICE RECEP	20	9				10	15	ART ROOM EXHAUST FAN	
ROOF TOP SERVICE RECEP	20	11				12	3P		
ROOF TOP SERVICE RECEP	20	13				14	15	EXISTING	
SPACE	15					16	15	EXISTING	
SPACE	17					18	15	EXISTING	
EXISTING	15	19				20	15	EXISTING	
EXISTING	15	21				22	15	EXISTING	
EXISTING	15	23				24	15	EXISTING	

\* - DENOTES NEW BREAKER REQUIRED

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PROJECT:  
TISS - MECHANICAL REPLACEMENT  
2510 PARKEDALE AVE  
BROCKVILLE, ON

DRAWING:  
ELECTRICAL:  
SECOND FLOOR PART 1 -  
SYSTEMS



DATE: APRIL 2025  
DESIGNED BY: J.F.B.  
DRAWN BY: J.F.B.  
CHECKED BY: B.T.

SCALE: 1:100

No. DWGS. 26

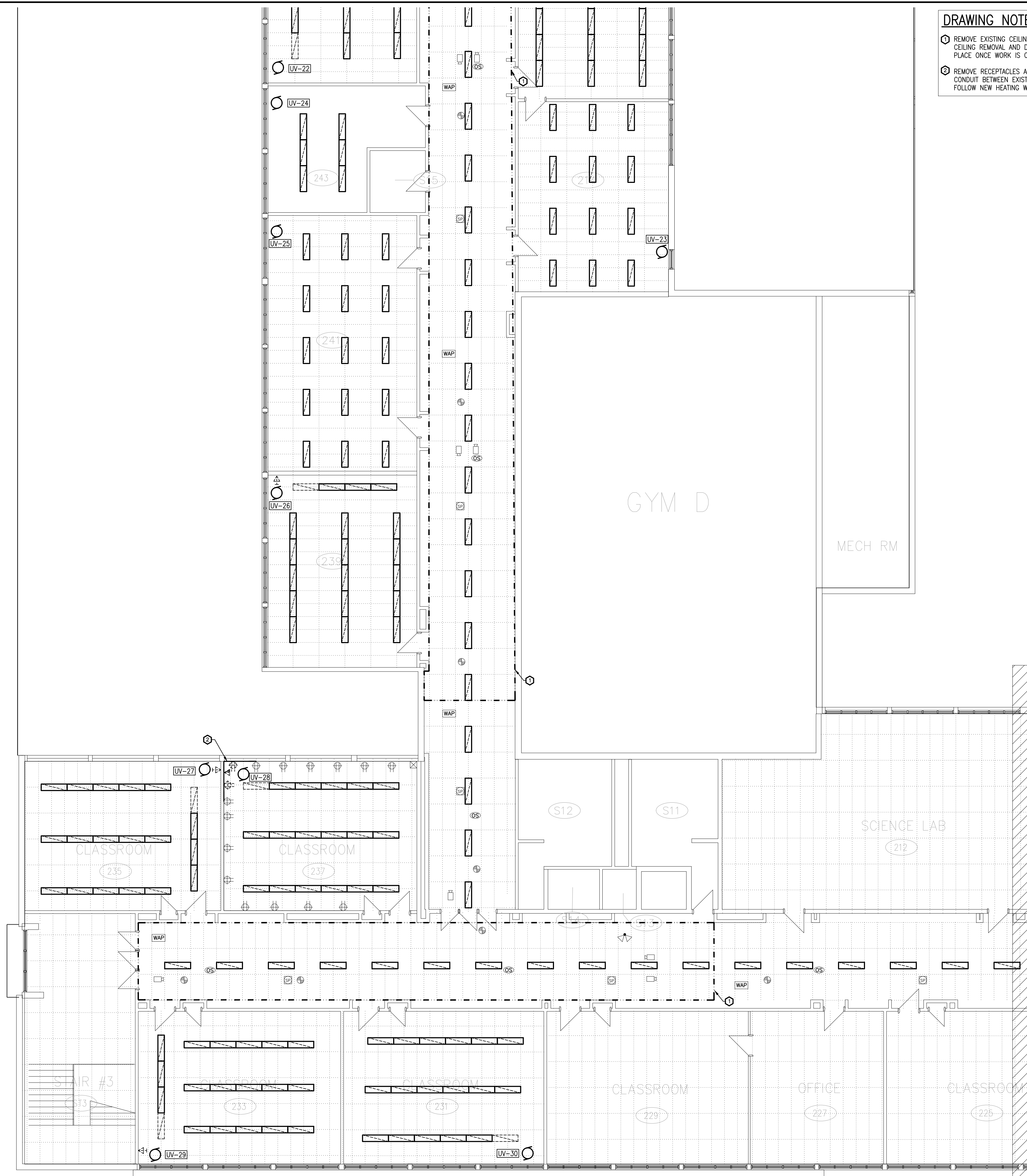
PROJECT No.

25020

DRAWING No.

PROJECT No.

E201



DRAWING NOTES

- 1. REMOVE EXISTING CEILING MOUNTED DEVICES TO ALLOW FOR CEILING REMOVAL AND DUCTWORK INSTALLATION. RE-INSTALL IN PLACE ONCE WORK IS COMPLETE AND TEST.
- 2. REMOVE RECEPTACLES AND INTERCONNECTING CONDUIT. RE-ROUTE CONDUIT BETWEEN EXISTING TO REMAIN RECEPTACLES AS SHOWN. FOLLOW NEW HEATING WATER PIPING TO AVOID NEW DUCTWORK.

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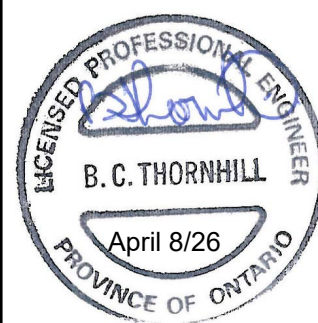
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PROJECT:  
TISS – MECHANICAL REPLACEMENT  
2510 PARKEDALE AVE  
BROCKVILLE, ON

DRAWING:  
ELECTRICAL:  
SECOND FLOOR PART 2 –  
SYSTEMS



DATE: APRIL 2025  
DESIGNED BY: J.F.B.  
DRAWN BY: J.F.B.  
CHECKED BY: B.T.

SCALE: 1:100

No. DWGS: 26

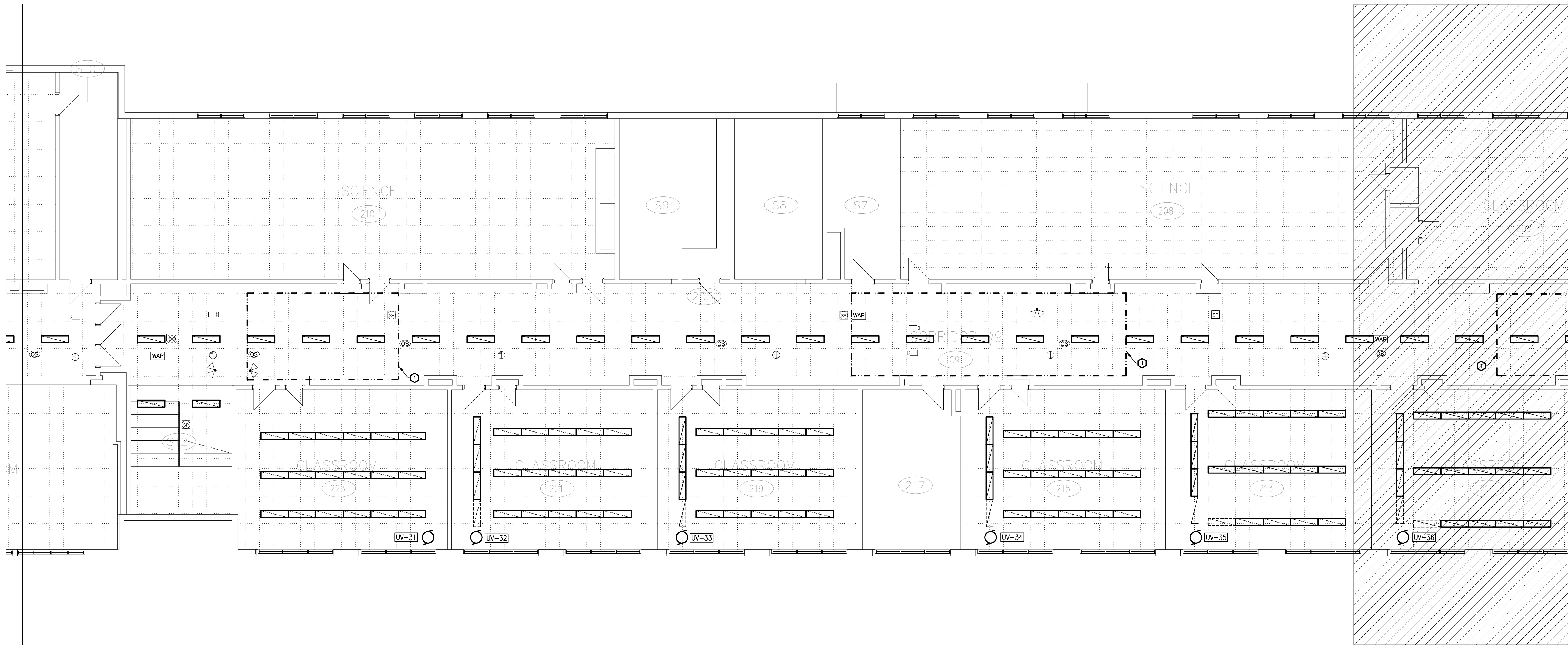
PROJECT No.

25020

DRAWING No.

E202





1  
E203 SECOND FLOOR PART 3 – SYSTEMS

**DRAWING NOTES**  
⊖ REMOVE EXISTING CEILING MOUNTED DEVICES TO ALLOW FOR CEILING REMOVAL AND DUCTWORK INSTALLATION. RE-INSTALL IN PLACE ONCE WORK IS COMPLETE AND TEST.

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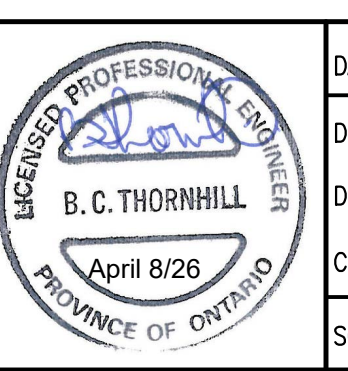


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PROJECT:  
TISS – MECHANICAL REPLACEMENT  
2510 PARKEDALE AVE  
BROCKVILLE, ON

DRAWING:  
ELECTRICAL:  
SECOND FLOOR PART 3 –  
SYSTEMS



DATE: APRIL 2025  
DESIGNED BY: J.F.B.  
DRAWN BY: J.F.B.  
CHECKED BY: B.T.  
SCALE: 1:100  
No. DWGS: 26  
PROJECT No. 25020

**E203**





### DRAWING NOTES

- ① REMOVE EXISTING CEILING MOUNTED DEVICES TO ALLOW FOR CEILING REMOVAL AND DUCTWORK INSTALLATION. RE-INSTALL IN PLACE ONCE WORK IS COMPLETE AND TEST.

PANEL M (EXISTING) SQUARE D											
24 CIRCUITS		120/208V		3 PH		4 W		225 MAINS		SURFACE MOUNTED	
DESCRIPTION		BR		CIR		A		B		CIR	
EF-43		15		1				2		15	
HVAC CONTROL POWER		15		3				4		15	
LIBRARY EXT. LIGHTS		15		5				6		15	
PANEL PLUG		15		7				8		15	
GYM FANS F-3, 4, 5, 6		15		9				10		20	
SPACE		11						12		20	
SPACE		13						14		20	
AHU-13		30		15				16		30	
SPACE		17						18		30	
SPACE		19						20		30	
SPACE		21						22		SPACE	
SPACE		23						24		SPACE	

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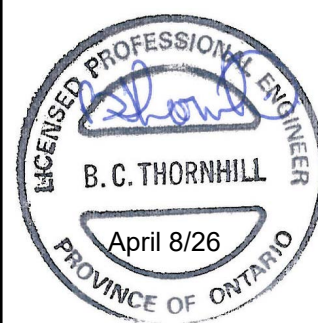
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PROJECT:  
TISS - MECHANICAL REPLACEMENT  
2510 PARKEDALE AVE  
BROCKVILLE, ON

DRAWING:  
ELECTRICAL:  
SECOND FLOOR PART 4 -  
SYSTEMS



DATE: APRIL 2025  
DESIGNED BY: J.F.B.  
DRAWN BY: J.F.B.  
CHECKED BY: B.T.

SCALE: 1:100

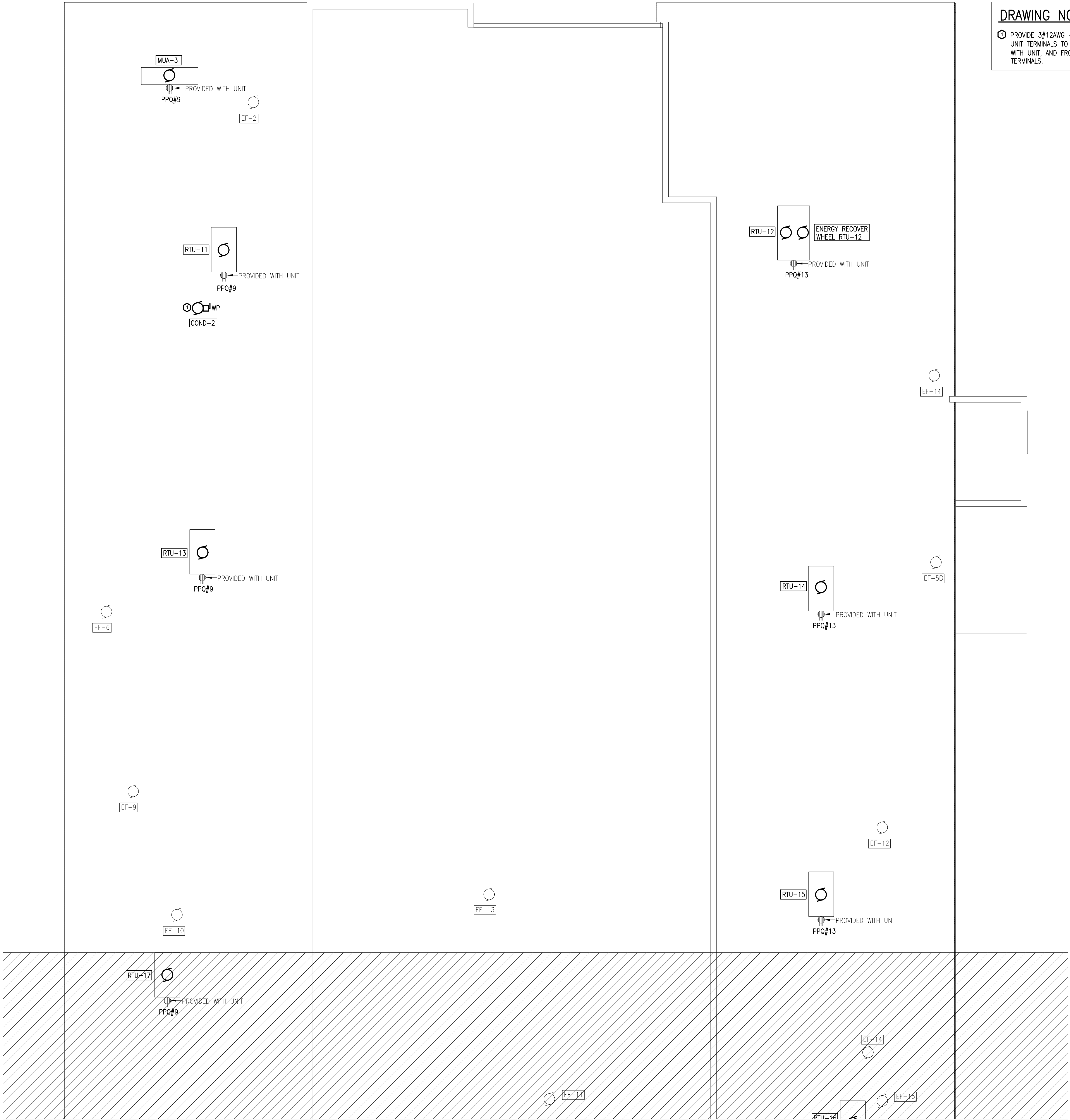
No. DWGS: 26

PROJECT No.

25020

DRAWING No.

E204



DRAWING NOTES

1 PROVIDE 3#12AWG + GROUND IN 21MMC FROM OUTDOOR CONDENSER UNIT TERMINALS TO INDOOR UNIT'S DISCONNECT SWITCH - SUPPLIED WITH UNIT, AND FROM DISCONNECT SWITCH TO THE INDOOR UNIT'S TERMINALS.

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PROJECT:  
TISS - MECHANICAL REPLACEMENT  
2510 PARKDALE AVE  
BROCKVILLE, ON

DRAWING:  
ELECTRICAL:  
ROOF PLAN PART 1 -  
POWER



DATE: APRIL 2025  
DESIGNED BY: J.F.B.  
DRAWN BY: J.F.B.  
CHECKED BY: B.T.

SCALE: 1:100

No. DWGS. 26

PROJECT No.

25020

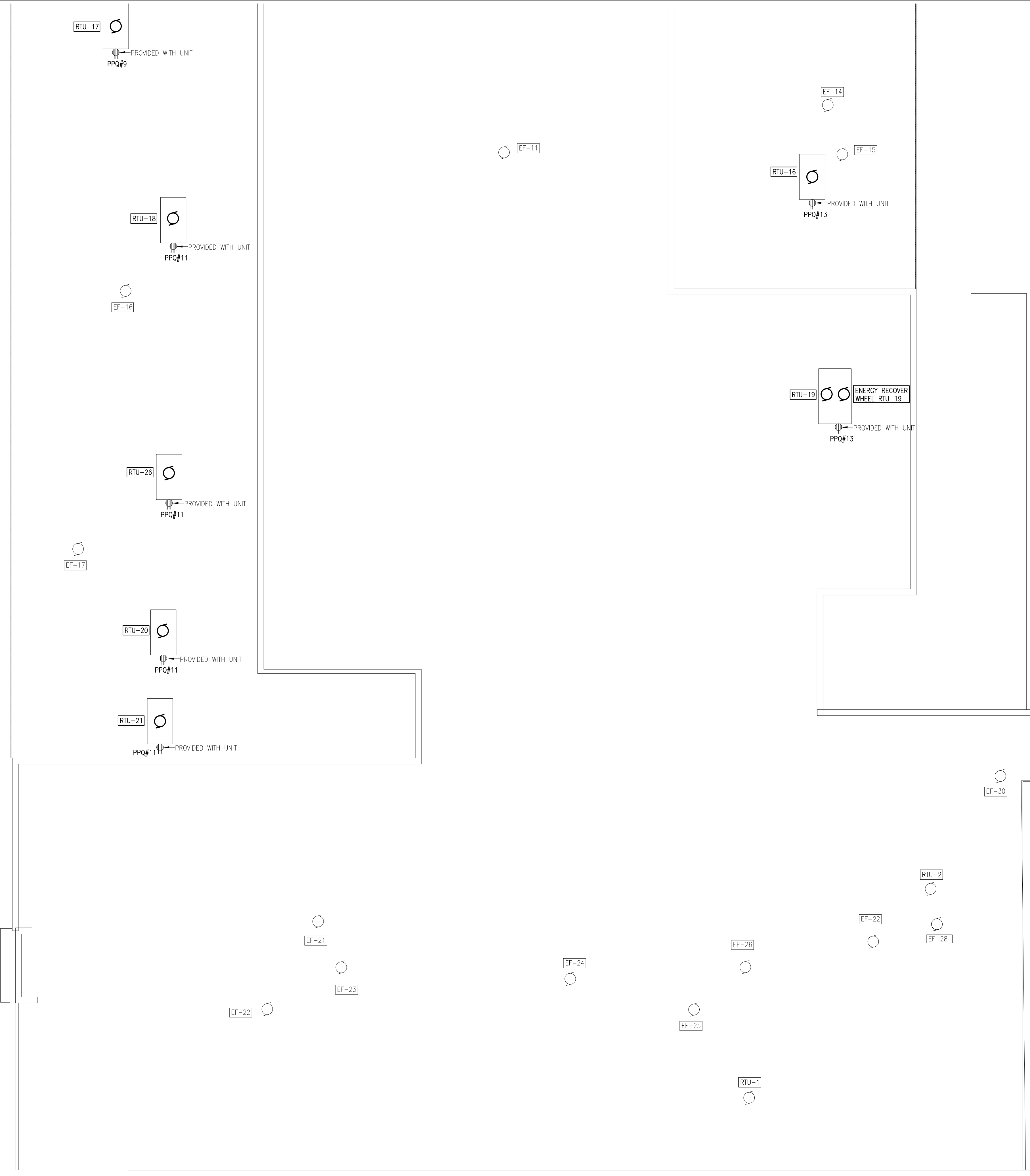
DRAWING No.

PROJECT No.

25020

E301

1  
E301 ROOF PLAN PART 1 - POWER



1  
E302

ROOF PLAN PART 2 – POWER

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PROJECT:  
TISS – MECHANICAL REPLACEMENT  
2510 PARKEDALE AVE  
BROCKVILLE, ON

DRAWING:  
ELECTRICAL:  
ROOF PLAN PART 2 –  
POWER

B.C. THORNHILL  
April 8/26  
PROVINCE OF ONTARIO

DATE: APRIL 2025  
DESIGNED BY: J.F.B.  
DRAWN BY: J.F.B.  
CHECKED BY: B.T.  
SCALE: 1:100

No. DWGS: 26  
PROJECT No.  
25020

DRAWING No.  
**E302**





1  
E303

ROOF PLAN PART 3 – POWER


**DRAWING NOTES**

ⓘ PROVIDE 3#12AWG + GROUND IN 21MMC FROM OUTDOOR CONDENSER UNIT TERMINALS TO INDOOR UNIT'S DISCONNECT SWITCH – SUPPLIED WITH UNIT, AND FROM DISCONNECT SWITCH TO THE INDOOR UNIT'S TERMINALS.

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PROJECT:  
TISS – MECHANICAL REPLACEMENT  
2510 PARKEDALE AVE  
BROCKVILLE, ON

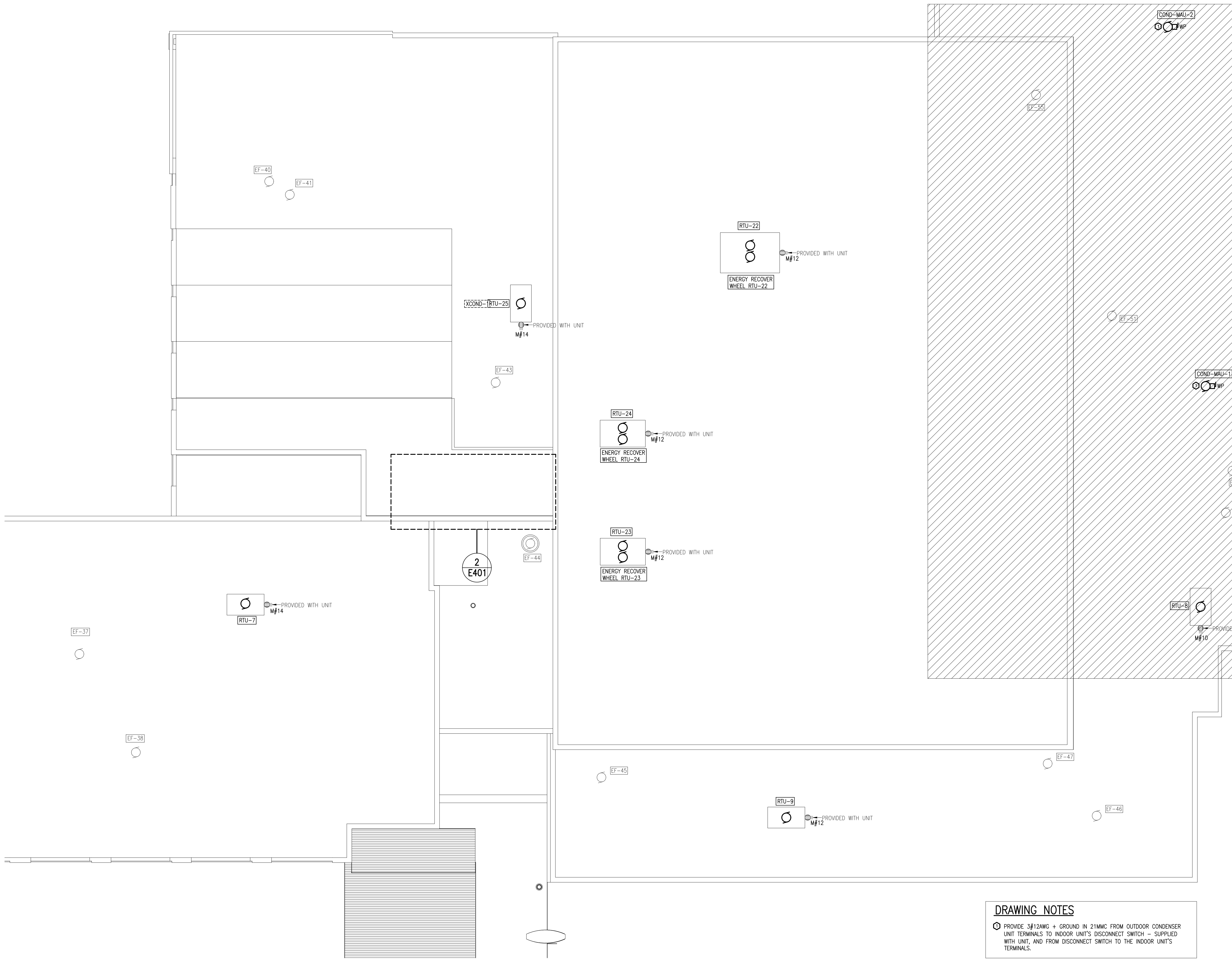
DRAWING:  
ELECTRICAL:  
ROOF PLAN PART 3 –  
POWER



DATE: **APRIL 2025**  
DESIGNED BY: **J.F.B.**  
DRAWN BY: **J.F.B.**  
CHECKED BY: **B.T.**  
SCALE: **1:100**

No. DWGS. **26**  
PROJECT No.  
**25020**

DRAWING No.  
**E303**



1  
E304 ROOF PLAN PART 4 – POWER

**DRAWING NOTES**

⊕ PROVIDE 3/12AWG + GROUND IN 21MMC FROM OUTDOOR CONDENSER UNIT TERMINALS TO INDOOR UNIT'S DISCONNECT SWITCH – SUPPLIED WITH UNIT, AND FROM DISCONNECT SWITCH TO THE INDOOR UNIT'S TERMINALS.

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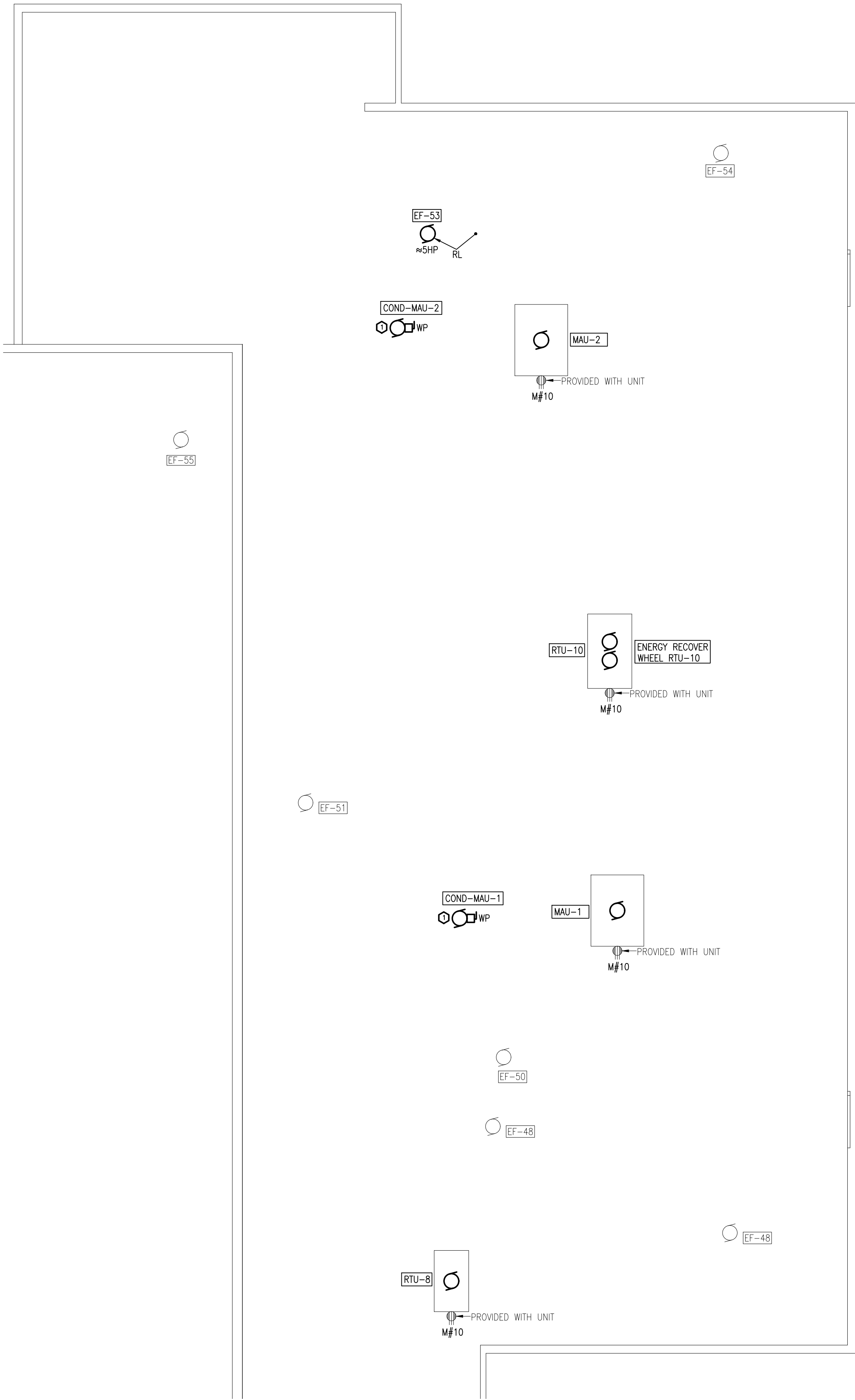
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PROJECT:  
TISS – MECHANICAL REPLACEMENT  
2510 PARKEDALE AVE  
BROCKVILLE, ON

DRAWING:  
ELECTRICAL:  
ROOF PLAN PART 4 –  
POWER

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	DRAWN BY: J.F.B.
	CHECKED BY: B.T.
SCALE: 1:100	
No. DWGS: 26	DRAWING No.
PROJECT No. 25020	<b>E304</b>





DRAWING NOTES

Ⓢ PROVIDE 3#12AWG + GROUND IN 21MMC FROM OUTDOOR CONDENSER UNIT TERMINALS TO INDOOR UNIT'S DISCONNECT SWITCH -- SUPPLIED WITH UNIT, AND FROM DISCONNECT SWITCH TO THE INDOOR UNIT'S TERMINALS.

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PROJECT:  
TISS -- MECHANICAL REPLACEMENT  
2510 PARKEDALE AVE  
BROCKVILLE, ON

DRAWING:  
ELECTRICAL:  
ROOF PLAN PART 5 --  
POWER



DATE: **APRIL 2025**  
DESIGNED BY: **J.F.B.**  
DRAWN BY: **J.F.B.**  
CHECKED BY: **B.T.**

SCALE: **1:100**

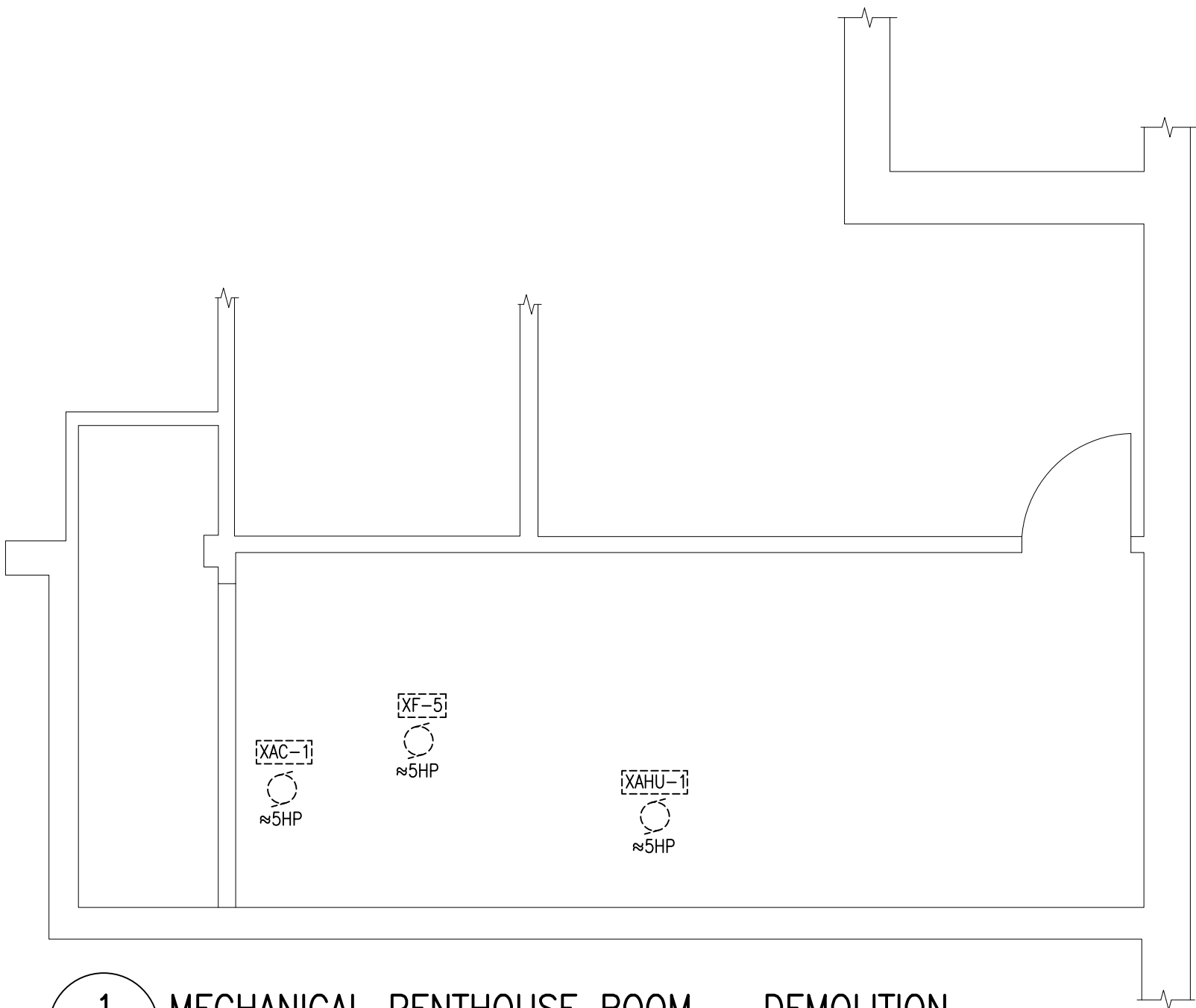
No. DWGS. **26**

PROJECT No.  
**25020**

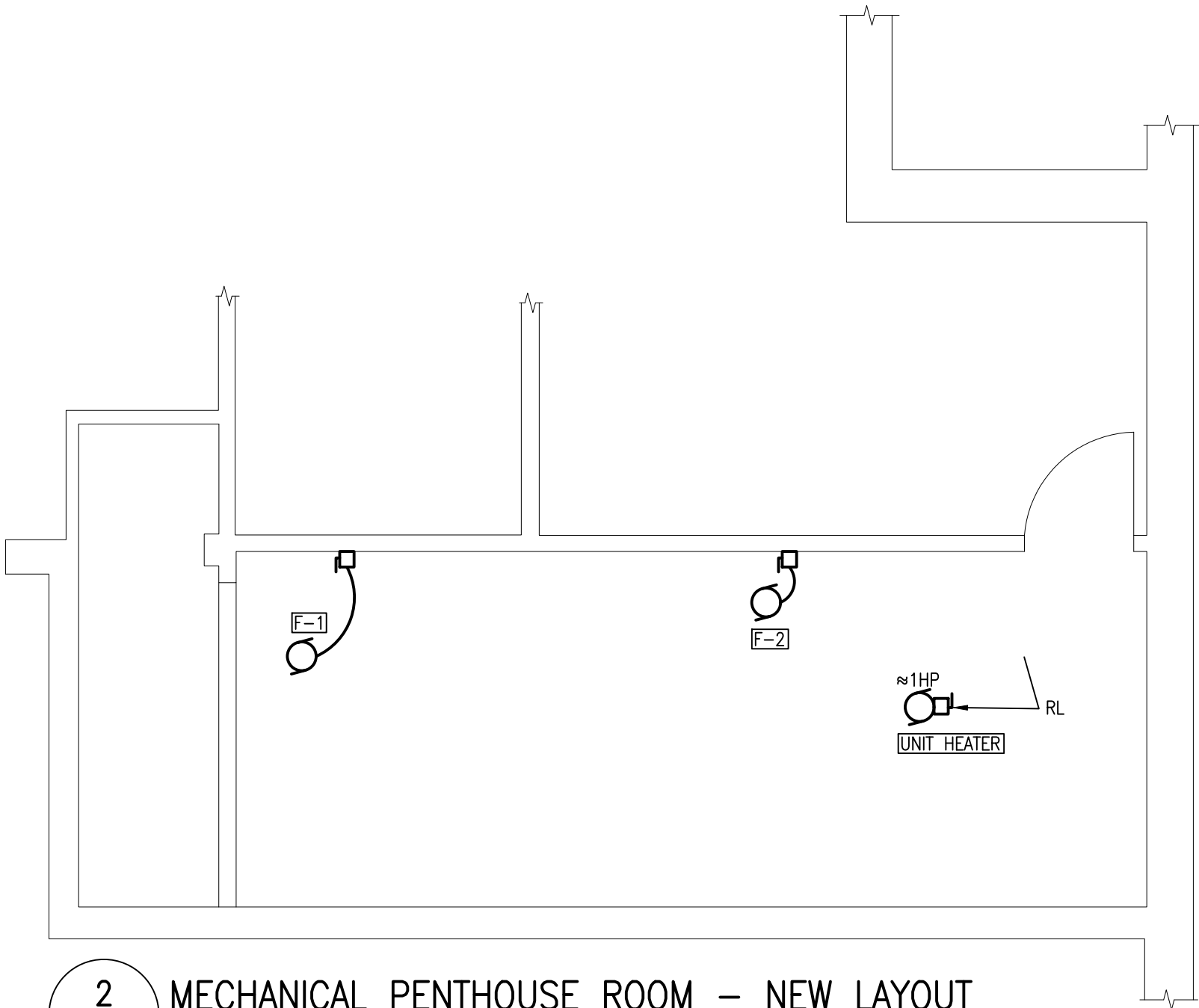
DRAWING No.

**E305**

1  
E305 ROOF PLAN PART 5 -- POWER



1 MECHANICAL PENTHOUSE ROOM – DEMOLITION  
E401 1:50



2 MECHANICAL PENTHOUSE ROOM – NEW LAYOUT  
E401 1:50

THESE DESIGN DOCUMENTS ARE PREPARED SOLELY FOR THE USE BY THE PARTY WITH WHOM THE DESIGN PROFESSIONAL HAS ENTERED INTO A CONTRACT AND THERE ARE NO REPRESENTATIONS OF ANY KIND MADE BY THE DESIGN PROFESSIONAL TO ANY PARTY WITH WHOM THE DESIGN PROFESSIONAL HAS NOT ENTERED INTO A CONTRACT.

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REVISION No.	DESCRIPTION	DATE
5.	ISSUED FOR TENDER & PERMIT	APR 08/26
4.	ISSUED FOR 99% REVIEW	OCT 09/25
3.	ISSUED FOR 90% REVIEW	AUG 27/25
2.	ISSUED FOR 60% REVIEW	JUN 27/25
1.	ISSUED FOR 30% REVIEW	MAY 02/25

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PROJECT:  
TISS – MECHANICAL REPLACEMENT  
2510 PARKEDALE AVE  
BROCKVILLE, ON

DRAWING:  
ELECTRICAL:  
DETAILS



DATE: APRIL 2025

DESIGNED BY: J.F.B.

DRAWN BY: J.F.B.

CHECKED BY: B.T.

SCALE: AS NOTED

No. DWGS. 26

PROJECT No.

25020

DRAWING No.

E401