

MECHANICAL DRAWING LIST

DRAWING No.	DESCRIPTION
M001	MECHANICAL – LEGEND AND DRAWING LIST
M002	MECHANICAL – KEY PLANS
MD101	MECHANICAL – GROUND FLOOR PART 1 – PLUMBING AND FIRE PROTECTION DEMOLITION
MD102	MECHANICAL – GROUND FLOOR PART 2 – PLUMBING AND FIRE PROTECTION DEMOLITION
MD103	MECHANICAL – GROUND FLOOR PART 3 – PLUMBING AND FIRE PROTECTION DEMOLITION
MD104	MECHANICAL – GROUND FLOOR PART 4 – PLUMBING AND FIRE PROTECTION DEMOLITION
MD105	MECHANICAL – GROUND FLOOR PART 5 – PLUMBING AND FIRE PROTECTION DEMOLITION
MD106	MECHANICAL – SECOND FLOOR PART 1 – PLUMBING AND FIRE PROTECTION DEMOLITION
MD107	MECHANICAL – SECOND FLOOR PART 2 – PLUMBING AND FIRE PROTECTION DEMOLITION
MD108	MECHANICAL – SECOND FLOOR PART 3 – PLUMBING AND FIRE PROTECTION DEMOLITION
MD109	MECHANICAL – SECOND FLOOR PART 4 – PLUMBING AND FIRE PROTECTION DEMOLITION
MD201	MECHANICAL – GROUND FLOOR PART 1 – HVAC DEMOLITION
MD202	MECHANICAL – GROUND FLOOR PART 2 – HVAC DEMOLITION
MD203	MECHANICAL – GROUND FLOOR PART 3 – HVAC DEMOLITION
MD204	MECHANICAL – GROUND FLOOR PART 4 – HVAC DEMOLITION
MD205	MECHANICAL – GROUND FLOOR PART 5 – HVAC DEMOLITION
MD206	MECHANICAL – SECOND FLOOR PART 1 – HVAC DEMOLITION
MD207	MECHANICAL – SECOND FLOOR PART 2 – HVAC DEMOLITION
MD208	MECHANICAL – SECOND FLOOR PART 3 – HVAC DEMOLITION
MD209	MECHANICAL – SECOND FLOOR PART 4 – HVAC DEMOLITION
MD301	MECHANICAL – ROOF PLAN PART 1 – DEMOLITION
MD302	MECHANICAL – ROOF PLAN PART 2 – DEMOLITION
MD303	MECHANICAL – ROOF PLAN PART 3 – DEMOLITION
MD304	MECHANICAL – ROOF PLAN PART 4 – DEMOLITION
MD305	MECHANICAL – ROOF PLAN PART 5 – DEMOLITION
M101	MECHANICAL – GROUND FLOOR PART 1 – PLUMBING AND FIRE PROTECTION
M102	MECHANICAL – GROUND FLOOR PART 2 – PLUMBING AND FIRE PROTECTION
M103	MECHANICAL – GROUND FLOOR PART 3 – PLUMBING AND FIRE PROTECTION
M104	MECHANICAL – GROUND FLOOR PART 4 – PLUMBING AND FIRE PROTECTION
M105	MECHANICAL – GROUND FLOOR PART 5 – PLUMBING AND FIRE PROTECTION
M106	MECHANICAL – SECOND FLOOR PART 1 – PLUMBING AND FIRE PROTECTION
M107	MECHANICAL – SECOND FLOOR PART 2 – PLUMBING AND FIRE PROTECTION
M108	MECHANICAL – SECOND FLOOR PART 3 – PLUMBING AND FIRE PROTECTION
M109	MECHANICAL – SECOND FLOOR PART 4 – PLUMBING AND FIRE PROTECTION
M201	MECHANICAL – GROUND FLOOR PART 1 – HVAC
M202	MECHANICAL – GROUND FLOOR PART 2 – HVAC
M203	MECHANICAL – GROUND FLOOR PART 3 – HVAC
M204	MECHANICAL – GROUND FLOOR PART 4 – HVAC
M205	MECHANICAL – GROUND FLOOR PART 5 – HVAC
M206	MECHANICAL – SECOND FLOOR PART 1 – HVAC
M207	MECHANICAL – SECOND FLOOR PART 2 – HVAC
M208	MECHANICAL – SECOND FLOOR PART 3 – HVAC
M209	MECHANICAL – SECOND FLOOR PART 4 – HVAC
M301	MECHANICAL – ROOF PLAN PART 1 – NEW
M302	MECHANICAL – ROOF PLAN PART 2 – NEW
M303	MECHANICAL – ROOF PLAN PART 3 – NEW
M304	MECHANICAL – ROOF PLAN PART 4 – NEW
M305	MECHANICAL – ROOF PLAN PART 5 – NEW
M401	MECHANICAL – SCHEDULES
M501	MECHANICAL – DETAILS
M502	MECHANICAL – DETAILS
M503	MECHANICAL – DETAILS

REMOVED AND/OR RELOCATED	EXISTING TO REMAIN	NEW	PLUMBING LEGEND
			SANITARY PIPING ABOVE GRADE/FLOOR
			SANITARY PIPING BELOW GRADE/FLOOR
			PUMPED CONDENSATE
			SANITARY VENT PIPING
			STORM PIPING ABOVE GRADE/FLOOR
			STORM PIPING BELOW GRADE/FLOOR
			DOMESTIC COLD WATER PIPING
			DOMESTIC HOT WATER PIPING
			DOMESTIC HOT WATER RECIRCULATION PIPING
			NATURAL GAS PIPING
			COMPRESSED AIR PIPING
			CLEAN OUT
			DRAIN/DRAIN BODY
			HUB DRAIN
			NATURAL GAS OUTLET
			COMPRESSED AIR OUTLET
			HOSE BIBB
			NON-FREEZE HOSE BIBB
			METER
			REGULATOR

REMOVED AND/OR RELOCATED	EXISTING TO REMAIN	NEW	VALVES & FITTINGS LEGEND
			CIRCUIT BALANCING VALVE
			BALL VALVE
			2 WAY CONTROL VALVE
			STRAINER
			CHECK VALVE
			DOUBLE CHECK VALVE BACKFLOW PREVENTER
			PRESSURE RELIEF VALVE
			AUTOMATIC AIR VENT
			MANUAL AIR VENT
			THERMOMETER
			PRESSURE GAUGE & COCK
			PUMP
			ELBOW UP OR DOWN
			BRANCH CONNECTION BOTTOM OR TOP
			CAP
			DRIP LEG
			REDUCER

REMOVED AND/OR RELOCATED	EXISTING TO REMAIN	NEW	HVAC LEGEND
			VERTICAL SUPPLY AIR DUCT
			VERTICAL RETURN OR EXHAUST AIR DUCT
			SUPPLY AIR DUCT
			RETURN OR EXHAUST DUCT
			INTERNAL ACOUSTIC DUCT LINING
			FIRE DAMPER
			BALANCING DAMPER
			TURNING VANES
			SQUARE TO ROUND TRANSITION
			FLEXIBLE DUCT (MAX. 6' LENGTH)
			LIGHT TROFFER DIFFUSER
			LINEAR DIFFUSER
			SQUARE DIFFUSER
			EGGCRATE RETURN/EXHAUST GRILLE
			FLEXIBLE CONNECTION
	A #	A #	A = DIFFUSER TYPE (SEE SCHEDULE) # = CAPACITY FOR EACH (L/S)

REMOVED AND/OR RELOCATED	EXISTING TO REMAIN	NEW	CONTROLS LEGEND
			TEMPERATURE SENSOR
			DE-STRATIFICATION FAN SPEED CONTROLLER
			CARBON DIOXIDE SENSOR
			CONTROL WIRING/TUBING
			HEATING ZONES

REMOVED AND/OR RELOCATED	EXISTING TO REMAIN	NEW	HEATING & COOLING LEGEND
			HEATING WATER SUPPLY PIPING
			HEATING WATER RETURN PIPING
			GLYCOL SUPPLY PIPING
			GLYCOL RETURN PIPING
			REFRIGERANT LIQUID PIPING
			REFRIGERANT SUCTION PIPING

REMOVED AND/OR RELOCATED	TO BE REMOVED	EXISTING TO REMAIN	NEW	FIRE PROTECTION LEGEND
				FIRE HOSE CABINET
				FIRE EXTINGUISHER

NOTE:
PRIOR TO DEMOLITION AND NEW EQUIPMENT SHOP DRAWING SUBMISSION,
PERFORM AIRFLOW MEASUREMENTS OF THE TWO KITCHEN EXHAUST
HOODS AND OF THE WELDING SHOP EXHAUST HOOD, AND SUBMIT
REPORT. REFER TO DRAWINGS MD201 AND MD205.

THESE DESIGN DOCUMENTS ARE PREPARED SOLELY
FOR THE USE BY THE PARTY WITH WHOM THE
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CONTRACT AND THERE ARE NO REPRESENTATIONS
OF ANY KIND MADE BY THE DESIGN
PROFESSIONAL TO ANY PARTY WITH WHOM THE
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CONTRACT.

THE PAPER COPY OF THE DRAWINGS ISSUED FOR
BUILDING PERMIT AND/OR TENDER WILL TAKE
PRECEDENCE OVER ELECTRONIC COPIES.

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4.	ISSUED FOR 99% REVIEW	OCT 9/25
3.	ISSUED FOR 90% REVIEW	AUG 27/25
2.	ISSUED FOR 60% REVIEW	JUN 27/25
1.	ISSUED FOR 30% REVIEW	MAY 02/25
REVISION No.	DESCRIPTION	DATE

McKEE
ENGINEERING
R.J. McKEE
ENGINEERING LTD.
1785 Woodward Drive
Ottawa, ON K2C 0P9
CANADA
Tel: (613) 723-9585
Fax: (613) 723-9584
www.mckeeottawa.ca

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

DRAWING:
MECHANICAL:
LEGEND AND DRAWING LIST



DATE: APRIL 2025

DESIGNED BY: J.G.

DRAWN BY: J.G.

CHECKED BY: S.C.

SCALE: N.T.S.

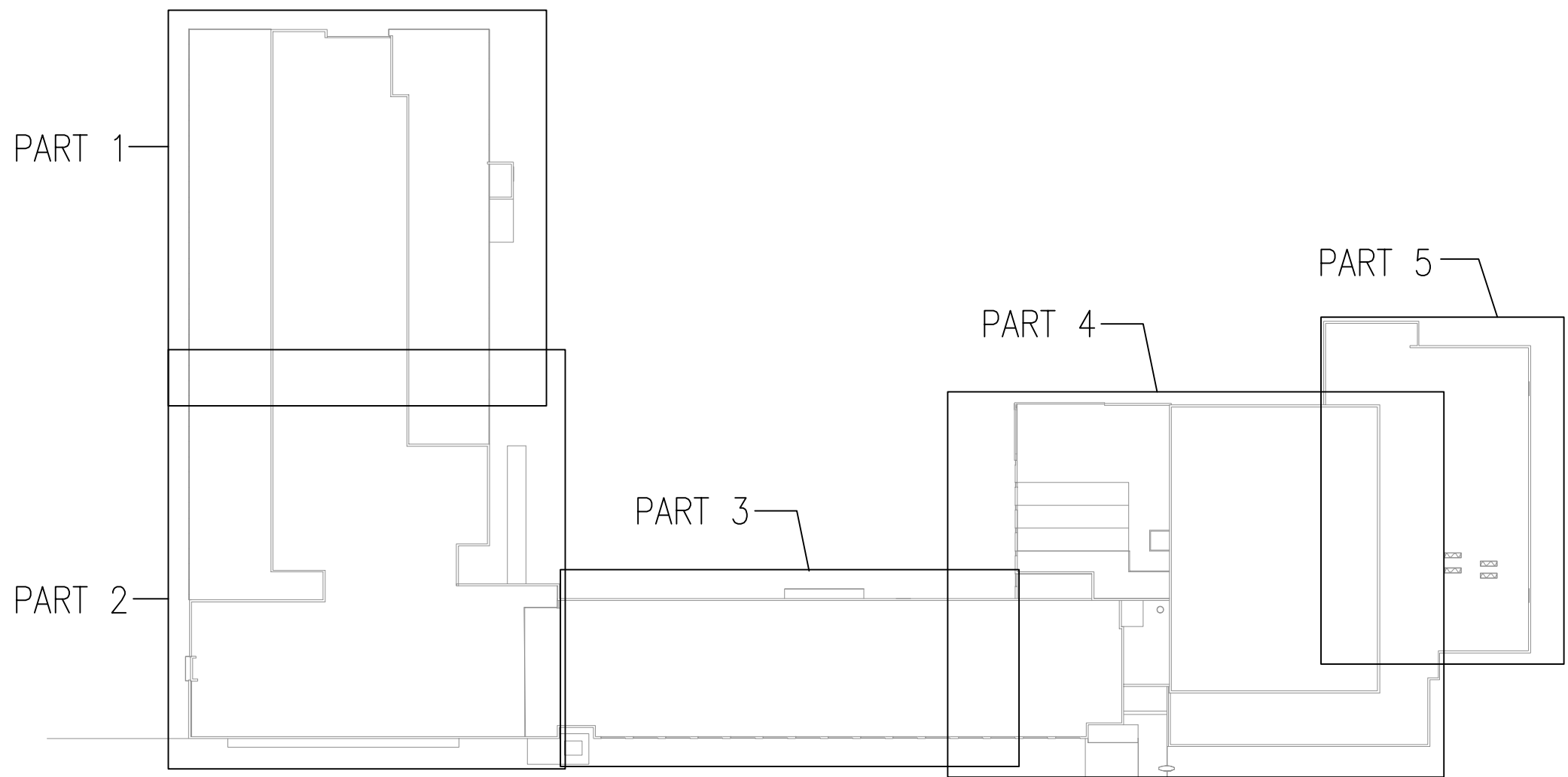
No. DWGS. 52

PROJECT No.

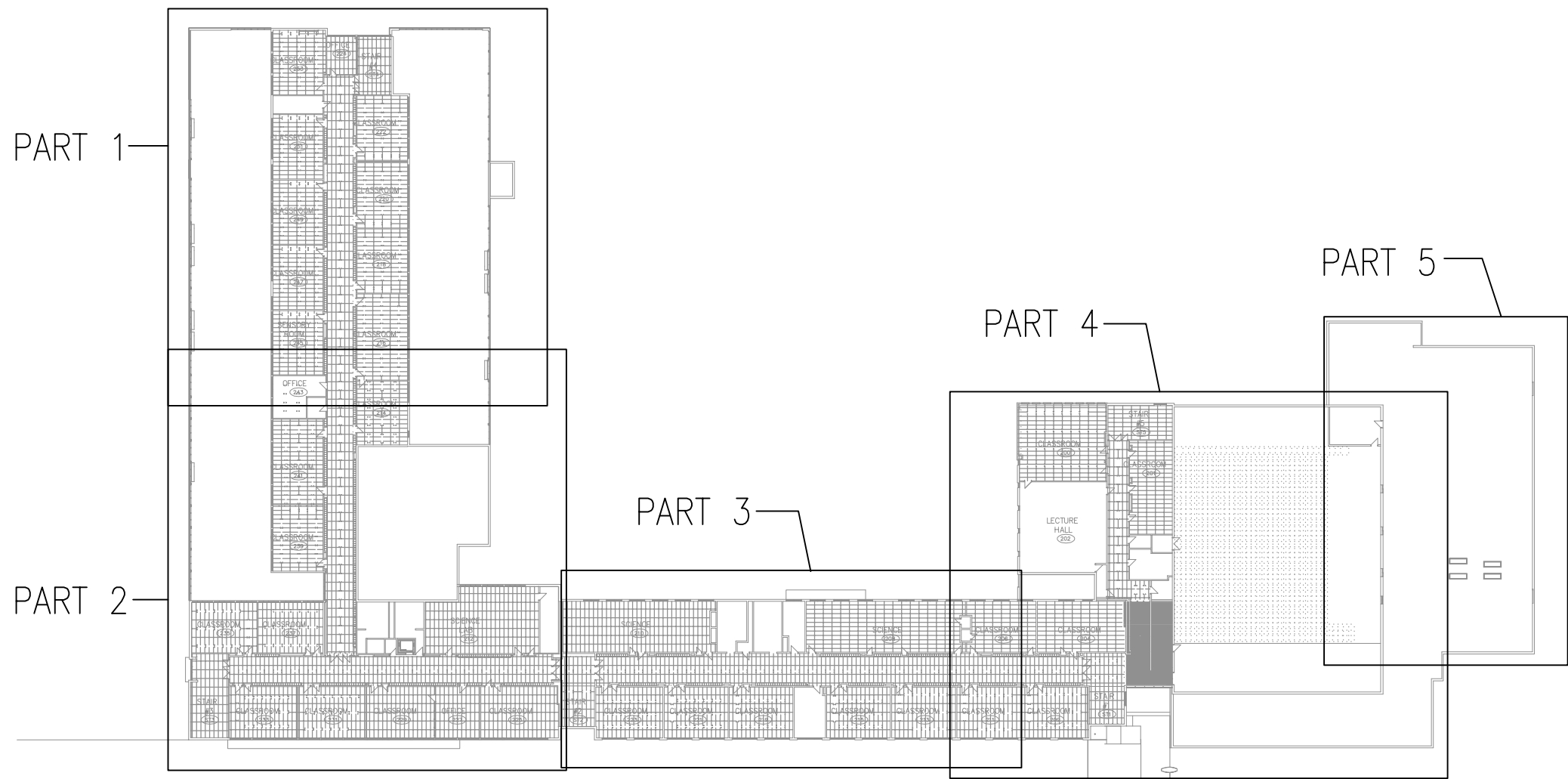
25020

DRAWING No.

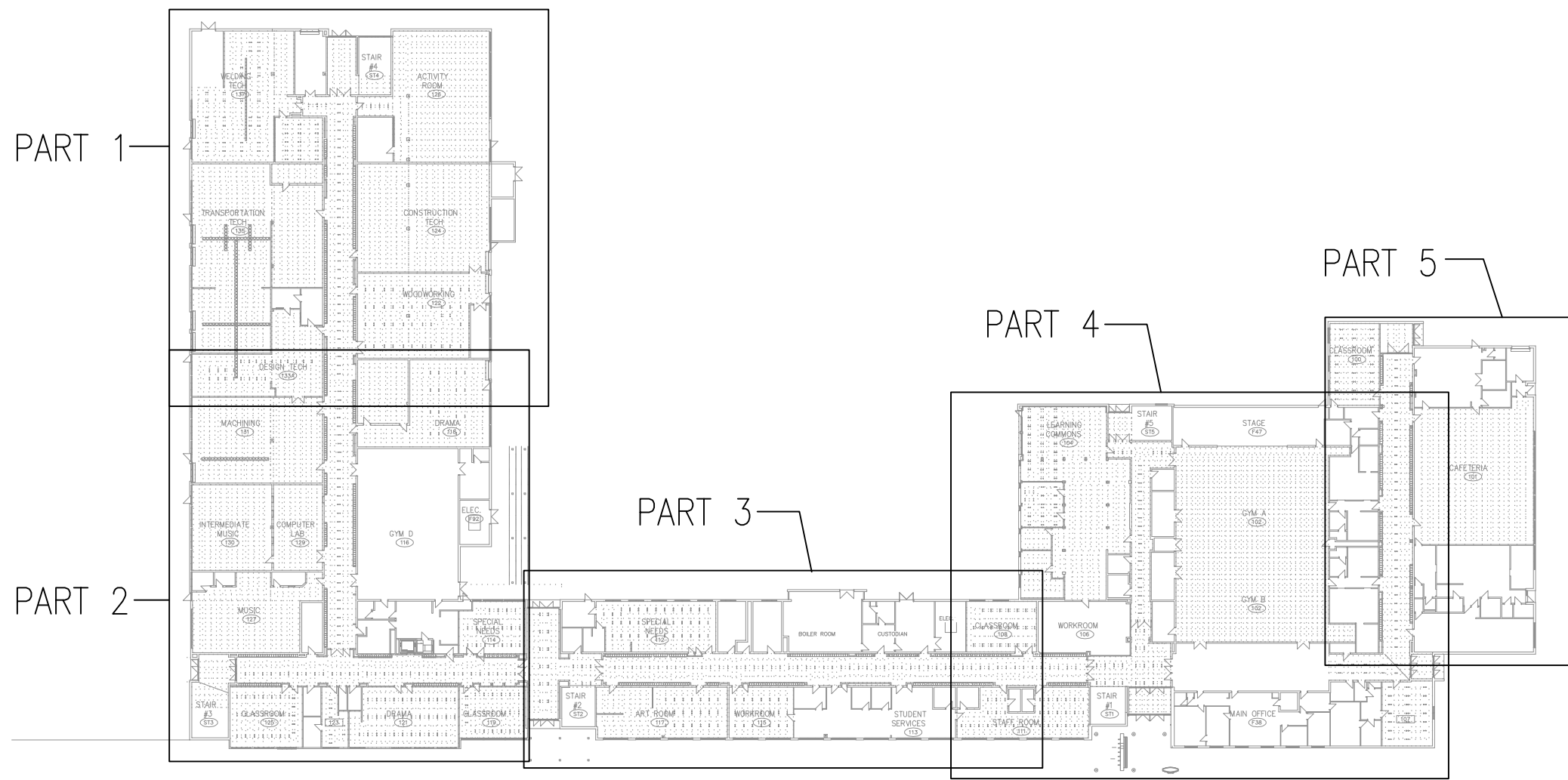
M001



1
M002 ROOF PLAN – KEYPLAN
N.T.S.



2
M002 SECOND FLOOR – KEYPLAN
N.T.S.



3
M002 GROUND FLOOR – KEYPLAN
N.T.S.

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

DRAWING:
MECHANICAL:
KEY PLANS



DATE: APRIL 2025

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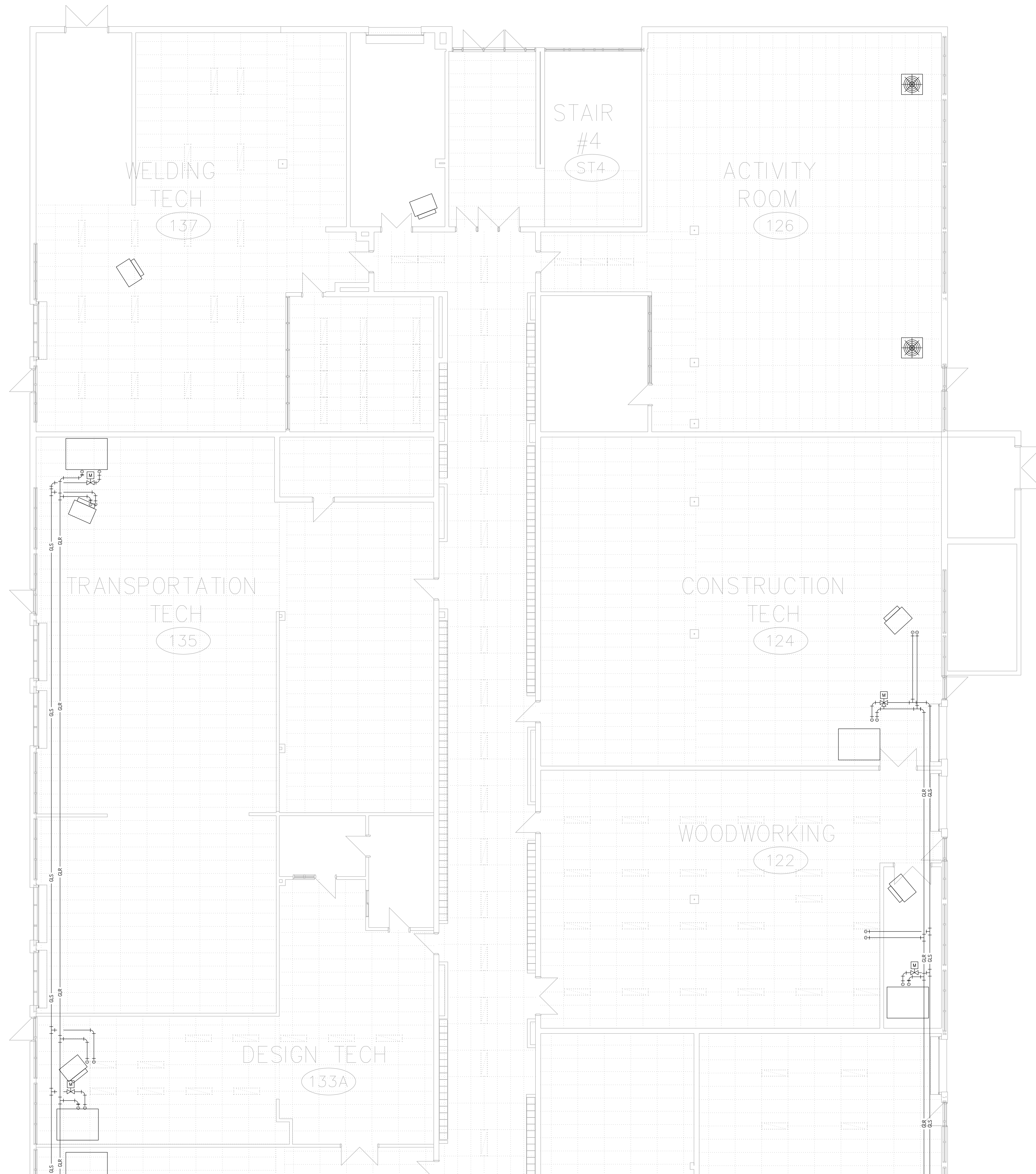
No. DWGS. 52

PROJECT No.

25020

DRAWING No.

M002




GENERAL NOTES

1. NO DEMOLITION SCOPE ON THIS DRAWING.
INCLUDED FOR INFORMATION ONLY.

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

DRAWING:
MECHANICAL:
GROUND FLOOR PART 1 –
PLUMBING AND FIRE PROTECTION
DEMOLITION



LICENCED PROFESSIONAL ENGINEER
S. P. CHENIER
Apr 8/26
PROVINCE OF ONTARIO

DATE: APRIL 2025

DESIGNED BY: J.G.

DRAWN BY: J.G.

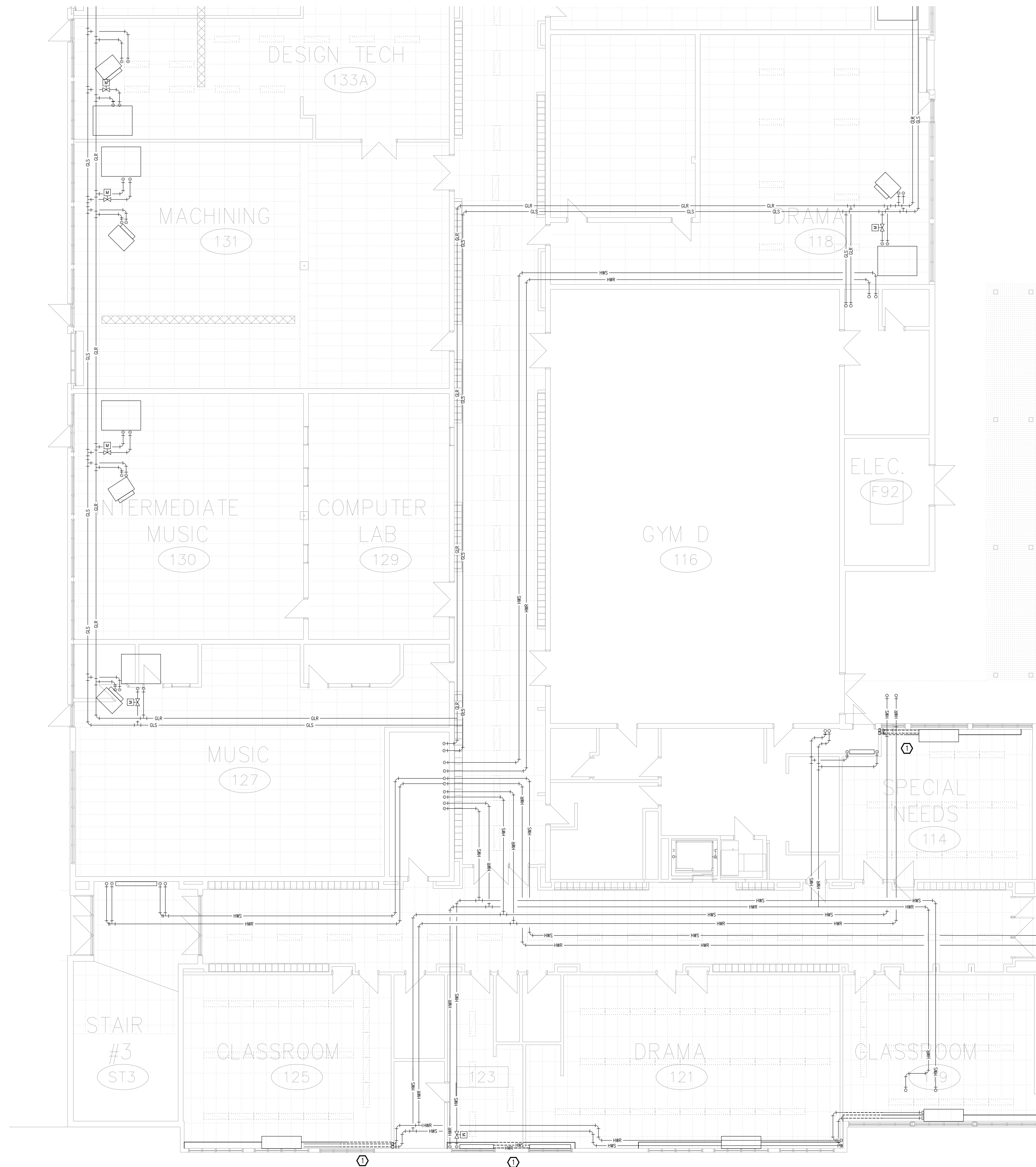
CHECKED BY: S.C.

SCALE: 1:100

No. DWGS: 52

PROJECT No.
25020

DRAWING No.
MD101



DRAWING NOTES

① CUT BACK HEATING WATER PIPING, VALVES, FITTINGS, TWO LEVELS OF FINNED TUBES, VENTS, AND CONVECTION HEATER CASING AS REQUIRED TO ACCOMMODATE NEW UNIT VENTILATOR INSTALLATION. REMOVE AND RE-INSTALL ADDITIONAL CASING SECTIONS AS REQUIRED TO COMPLETE WORK.

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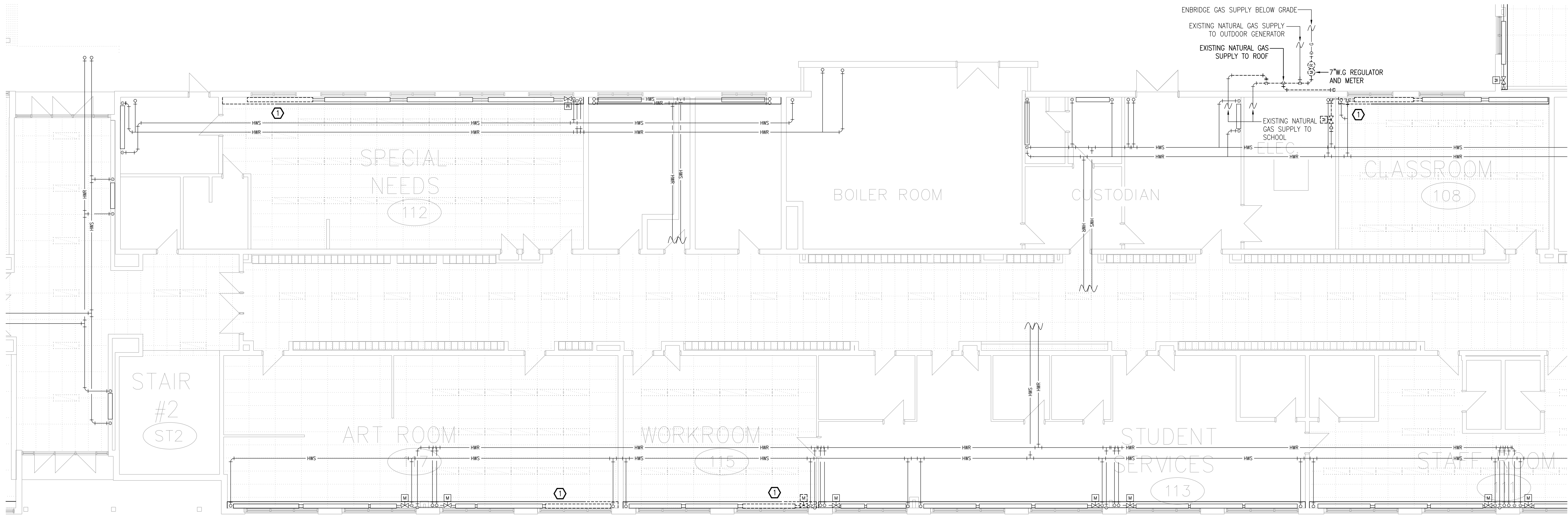
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PROJECT:
TISS – MECHANICAL REPLACEMENT
2510 PARKDALE AVE
BROCKVILLE, ON

DRAWING:
MECHANICAL:
GROUND FLOOR PART 2 –
PLUMBING AND FIRE PROTECTION
DEMOLITION

	DATE: APRIL 2025
	DESIGNED BY: J.G.
	DRAWN BY: J.G.
	CHECKED BY: S.C.
SCALE: 1:100	
No. DWGS: 52	DRAWING No.
PROJECT No. 25020	MD102




DRAWING NOTES

① CUT BACK HEATING WATER PIPING, VALVES, FITTINGS, TWO LEVELS OF FINNED TUBES, VENTS, AND CONVECTION HEATER CASING AS REQUIRED TO ACCOMMODATE NEW UNIT VENTILATOR INSTALLATION. REMOVE AND RE-INSTALL ADDITIONAL CASING SECTIONS AS REQUIRED TO COMPLETE WORK.

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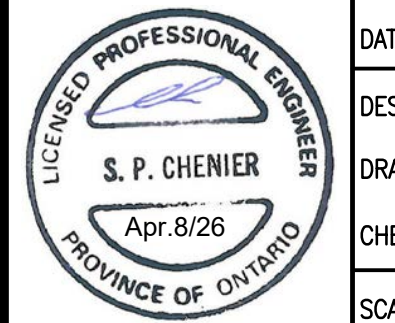
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ENGINEERING LTD.
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Ottawa, ON K2C 0P9
CANADA
Tel: (613) 723-9585
Fax: (613) 723-9584
www.mckeeottawa.ca

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

DRAWING:
MECHANICAL:
GROUND FLOOR PART 3 –
PLUMBING AND FIRE PROTECTION
DEMOLITION



DATE: APRIL 2025
DESIGNED BY: J.G.
DRAWN BY: J.G.
CHECKED BY: S.C.
SCALE: 1:100

No. DWGS. 52	DRAWING No.
PROJECT No. 25020	MD103




DRAWING NOTES

① CUT BACK HEATING WATER PIPING, VALVES, FITTINGS, TWO LEVELS OF FINNED TUBES, VENTS, AND CONVECTION HEATER CASING AS REQUIRED TO ACCOMMODATE NEW UNIT VENTILATOR INSTALLATION. REMOVE AND RE-INSTALL ADDITIONAL CASING SECTIONS AS REQUIRED TO COMPLETE WORK.

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TISS – MECHANICAL REPLACEMENT
2510 PARKDALE AVE
BROCKVILLE, ON

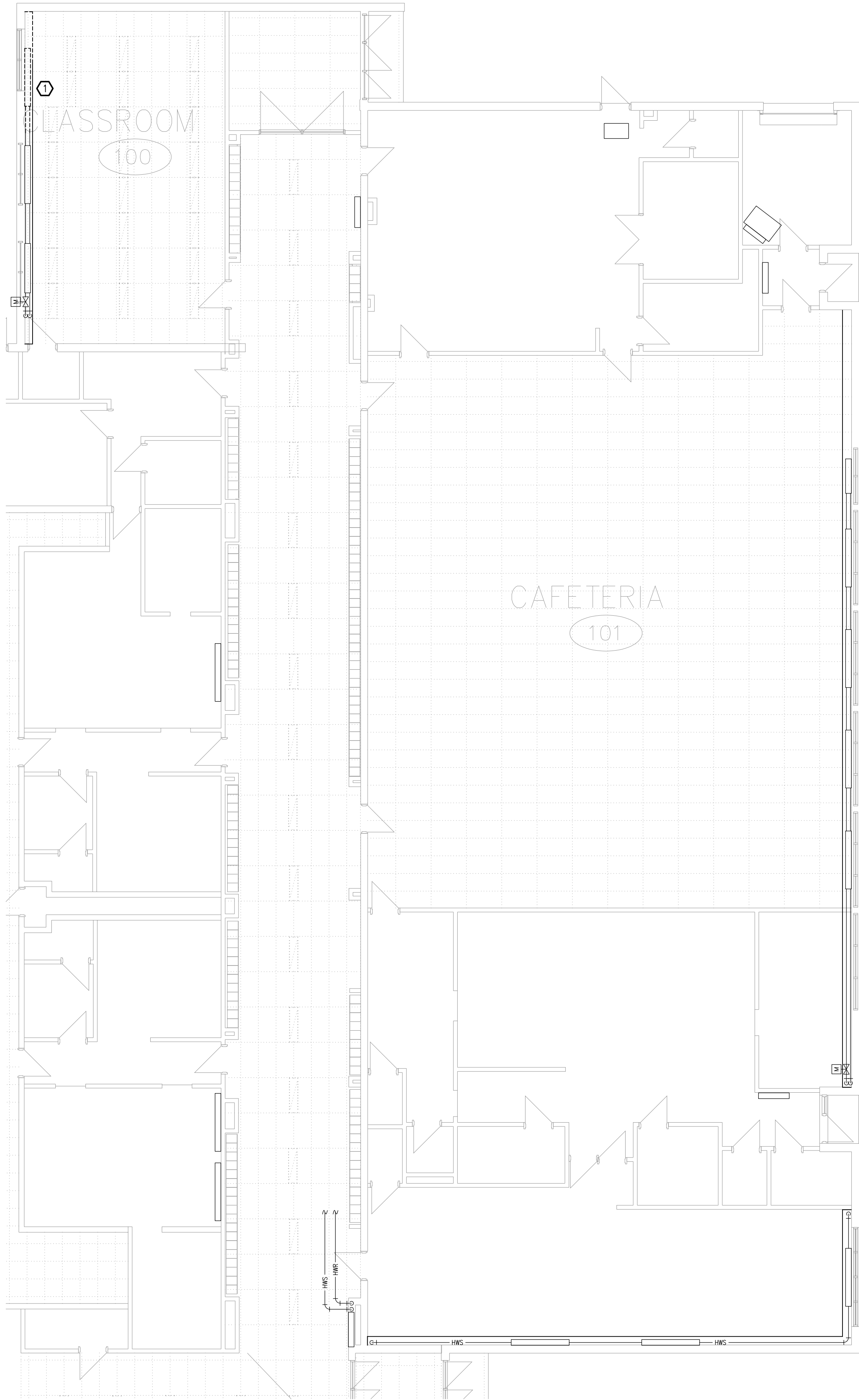
DRAWING:
MECHANICAL:
GROUND FLOOR PART 4 –
PLUMBING AND FIRE PROTECTION
DEMOLITION



DATE: APRIL 2025
DESIGNED BY: J.G.
DRAWN BY: J.G.
CHECKED BY: S.C.
SCALE: 1:100

No. DWGS. 52
PROJECT No.
25020

DRAWING No.
MD104



DRAWING NOTES

- ① CUT BACK HEATING WATER PIPING, VALVES, FITTINGS, TWO LEVELS OF FINNED TUBES, VENTS, AND CONVECTION HEATER CASING AS REQUIRED TO ACCOMMODATE NEW UNIT VENTILATOR INSTALLATION. REMOVE AND RE-INSTALL ADDITIONAL CASING SECTIONS AS REQUIRED TO COMPLETE WORK.

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

DRAWING:
MECHANICAL:
GROUND FLOOR PART 5 –
PLUMBING AND FIRE PROTECTION
DEMOLITION



DATE: APRIL 2025

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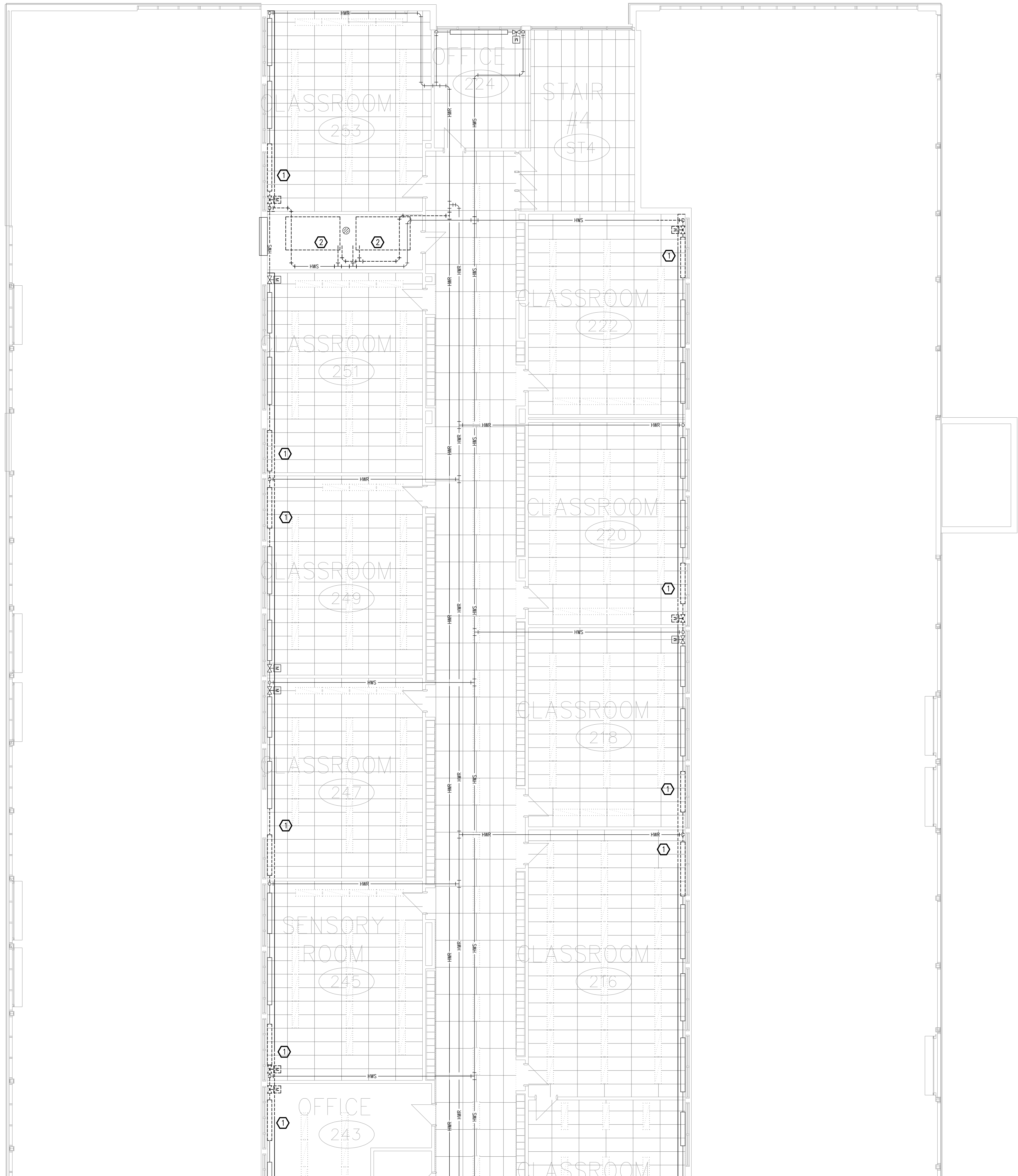
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No. DWGS. 52

DRAWING No.

PROJECT No.
25020

MD105



DRAWING NOTES

- ① CUT BACK HEATING WATER PIPING, VALVES, FITTINGS, TWO LEVELS OF FINNED TUBES, VENTS, AND CONVECTION HEATER CASING AS REQUIRED TO ACCOMMODATE NEW UNIT VENTILATOR INSTALLATION. REMOVE AND RE-INSTALL ADDITIONAL CASING SECTIONS AS REQUIRED TO COMPLETE WORK.
- ② REMOVE AIR HANDLING UNITS, COILS, FITTINGS, CONTROL VALVES, AND ALL ASSOCIATED REDUNDANT SYSTEMS. CAP PIPING AT MAINS OR MECHANICAL ROOM WALLS AS APPLICABLE.

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TISS – MECHANICAL REPLACEMENT
2510 PARKDALE AVE
BROCKVILLE, ON

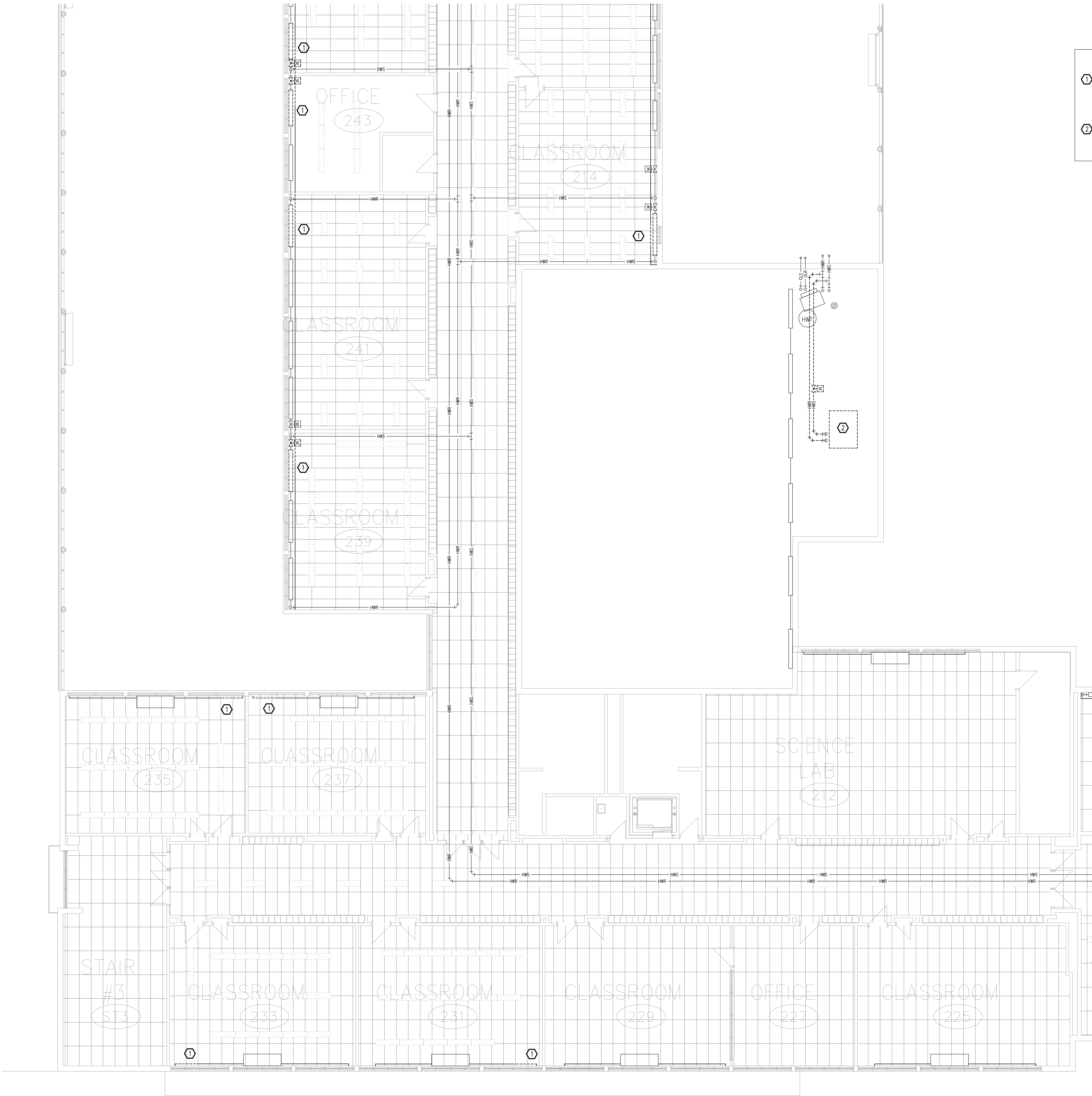
DRAWING:
MECHANICAL:
SECOND FLOOR PART 1 –
PLUMBING AND FIRE PROTECTION
DEMOLITION



DATE: APRIL 2025
DESIGNED BY: J.G.
DRAWN BY: J.G.
CHECKED BY: S.C.
SCALE: 1:100

No. DWGS. 52
PROJECT No. 25020

DRAWING No. MD106



DRAWING NOTES

- ① CUT BACK HEATING WATER PIPING, VALVES, FITTINGS, TWO LEVELS OF FINNED TUBES, VENTS, AND CONVECTION HEATER CASING AS REQUIRED TO ACCOMMODATE NEW UNIT VENTILATOR INSTALLATION. REMOVE AND RE-INSTALL ADDITIONAL CASING SECTIONS AS REQUIRED TO COMPLETE WORK.
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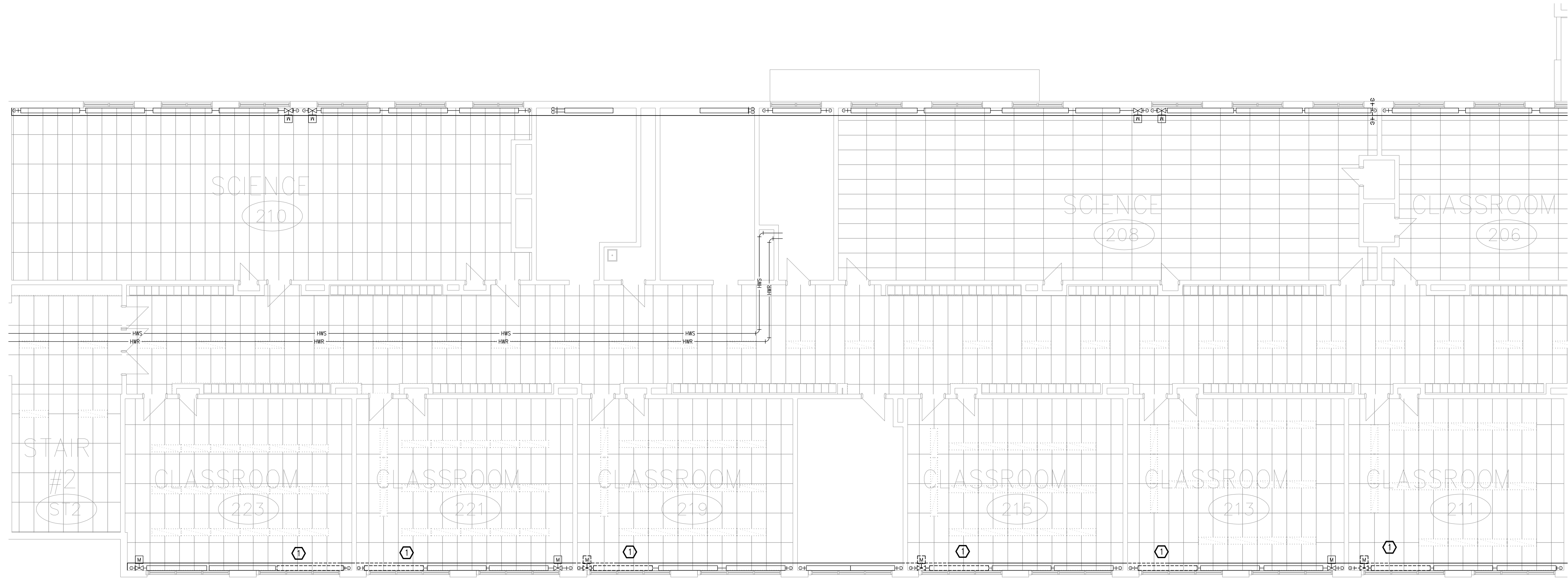
DRAWING:
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SECOND FLOOR PART 2 –
PLUMBING AND FIRE PROTECTION
DEMOLITION



DATE: APRIL 2025
DESIGNED BY: J.G.
DRAWN BY: J.G.
CHECKED BY: S.C.
SCALE: 1:100

No. DWGS: 52
PROJECT No.
25020

DRAWING No.
MD107




DRAWING NOTES

① CUT BACK HEATING WATER PIPING, VALVES, FITTINGS, TWO LEVELS OF FINNED TUBES, VENTS, AND CONVECTION HEATER CASING AS REQUIRED TO ACCOMMODATE NEW UNIT VENTILATOR INSTALLATION. REMOVE AND RE-INSTALL ADDITIONAL CASING SECTIONS AS REQUIRED TO COMPLETE WORK.

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.

THE PAPER COPY OF THE DRAWINGS ISSUED FOR BUILDING PERMIT AND/OR TENDER WILL TAKE PRECEDENCE OVER ELECTRONIC COPIES.

5.	ISSUED FOR TENDER & PERMIT	APR 08/26
4.	ISSUED FOR 99% REVIEW	OCT 9/25
3.	ISSUED FOR 90% REVIEW	AUG 27/25
2.	ISSUED FOR 60% REVIEW	JUN 27/25
1.	ISSUED FOR 30% REVIEW	MAY 02/25
REVISION No.	DESCRIPTION	DATE




McKee
ENGINEERING

R.J. McKEE
ENGINEERING LTD.
1785 Woodward Drive
Ottawa, ON K2C 0P9
CANADA
Tel: (613) 723-9585
Fax: (613) 723-9584
www.mckeeottawa.ca

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

DRAWING:
MECHANICAL:
SECOND FLOOR PART 3 –
PLUMBING AND FIRE PROTECTION
DEMOLITION



S. P. CHENIER
Apr 8/26
PROVINCE OF ONTARIO

DATE: APRIL 2025

DESIGNED BY: J.G.

DRAWN BY: J.G.

CHECKED BY: S.C.

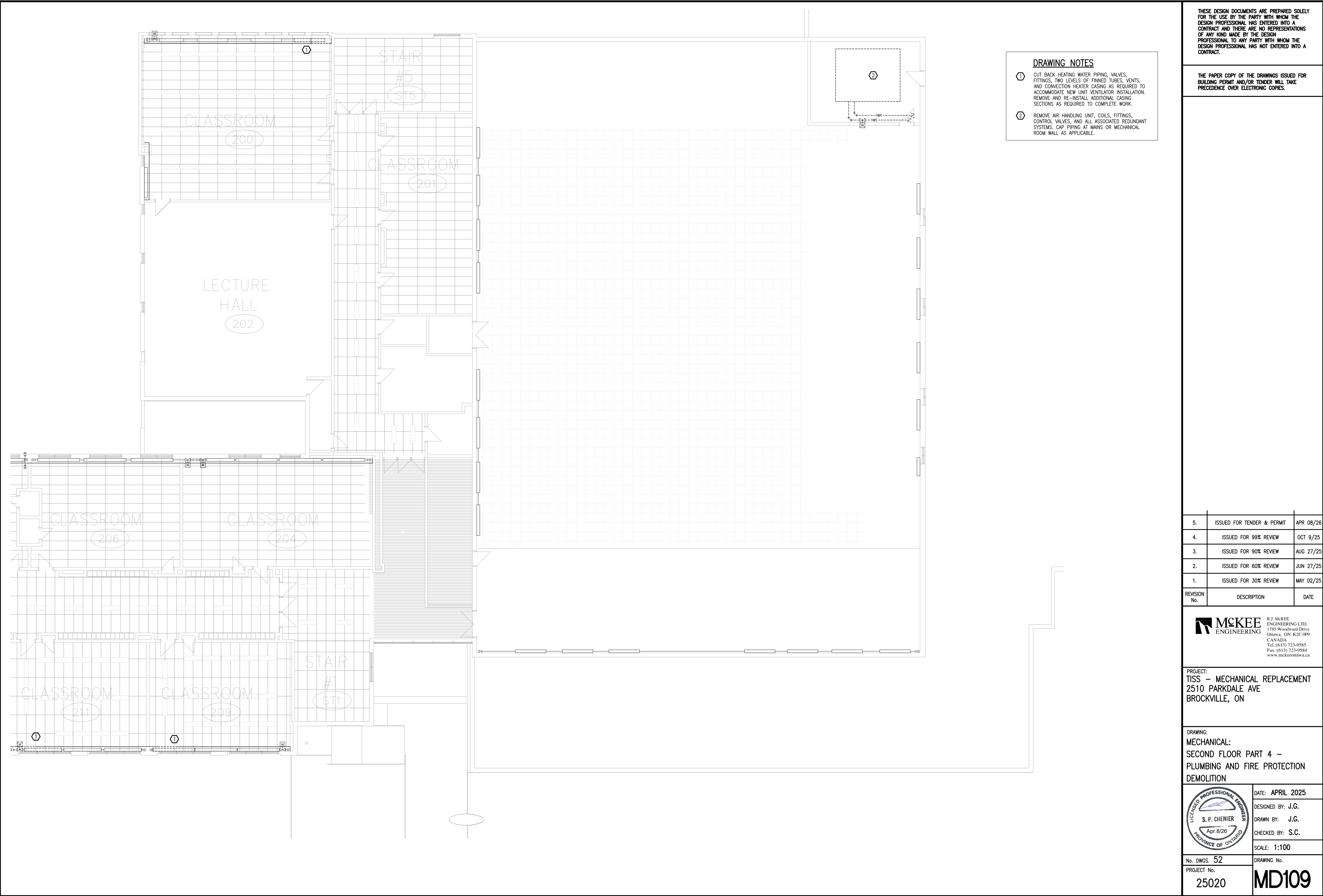
SCALE: 1:100

No. DWGS. 52

PROJECT No. 25020

DRAWING No.

MD108



- DRAWING NOTES**
- ① CUT BACK HEATING WATER PIPING, VALVES, FITTINGS, TWO LEVELS OF FINNED TUBES, VENTS, AND CONVECTION HEATER CASING AS REQUIRED TO ACCOMMODATE NEW UNIT VENTILATOR INSTALLATION. REMOVE AND RE-INSTALL ADDITIONAL CASING SECTIONS AS REQUIRED TO COMPLETE WORK.
 - ② REMOVE AIR HANDLING UNIT, COILS, FITTINGS, CONTROL VALVES, AND ALL ASSOCIATED REDUNDANT SYSTEMS. CAP PIPING AT MAINS OR MECHANICAL ROOM WALL AS APPLICABLE.

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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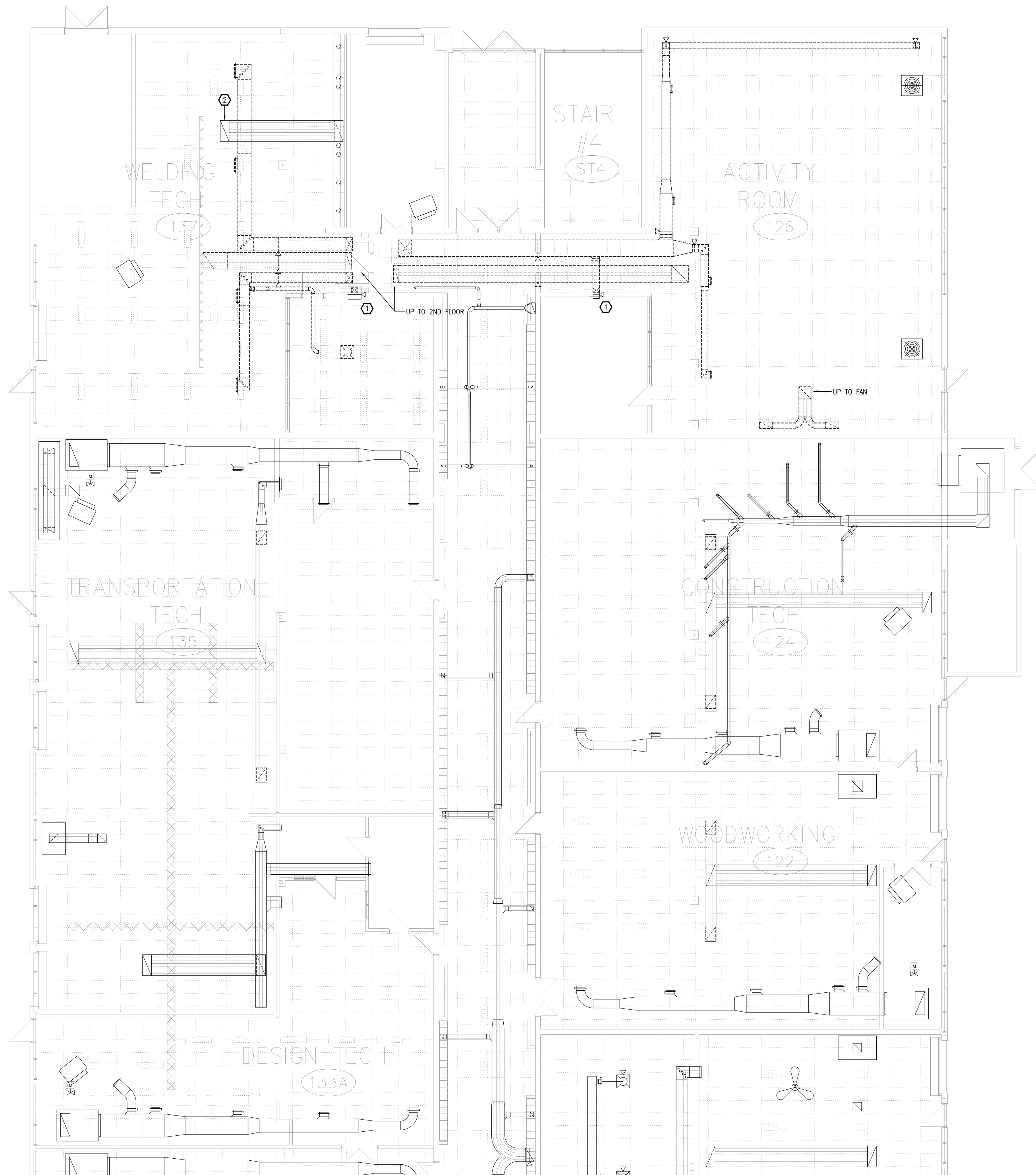
REVISION No.	DESCRIPTION	DATE
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4.	ISSUED FOR 99% REVIEW	OCT 9/25
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1.	ISSUED FOR 30% REVIEW	MAY 02/25

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R.J. McKEE
ENGINEERING LTD.
1785 Woodward Drive
Ottawa, ON K2C 0P9
CANADA
Tel: (613) 723-9585
Fax: (613) 723-9584
www.mckeeottawa.ca

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

DRAWING:
MECHANICAL:
SECOND FLOOR PART 4 –
PLUMBING AND FIRE PROTECTION
DEMOLITION

	DATE: APRIL 2025
	DESIGNED BY: J.G.
	DRAWN BY: J.G.
	CHECKED BY: S.C.
SCALE: 1:100	
No. DWGS. 52	DRAWING No.
PROJECT No. 25020	MD109



DRAWING NOTES

- 1 CUT BACK AND REMOVE DUCTWORK AS INDICATED. TEMPORARILY CAP DUCT ON CORRIDOR SIDE FOR FUTURE RECONNECTION. WALL GRILLES TO REMAIN.
- 2 PRIOR TO ANY DEMOLITION WORK AND SUBMITTING NEW EQUIPMENT SHOP DRAWINGS, MECHANICAL CONTRACTOR SHALL TAKE EXHAUST AIRFLOW MEASUREMENTS AT THE WELDING SHOP EXHAUST HOOD SYSTEM AND SUBMIT REPORT.

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.

THE PAPER COPY OF THE DRAWINGS ISSUED FOR BUILDING PERMIT AND/OR TENDER WILL TAKE PRECEDENCE OVER ELECTRONIC COPIES.

5.	ISSUED FOR TENDER & PERMIT	APR 08/26
4.	ISSUED FOR 99% REVIEW	OCT 9/25
3.	ISSUED FOR 90% REVIEW	AUG 27/25
2.	ISSUED FOR 60% REVIEW	JUN 27/25
1.	ISSUED FOR 30% REVIEW	MAY 02/25
REVISION No.	DESCRIPTION	DATE

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R.J. McKEE
ENGINEERING LTD.
1785 Woodward Drive
Ottawa, ON K2C 0P9
CANADA
Tel: (613) 723-9585
Fax: (613) 723-9584
www.mckeeottawa.ca

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

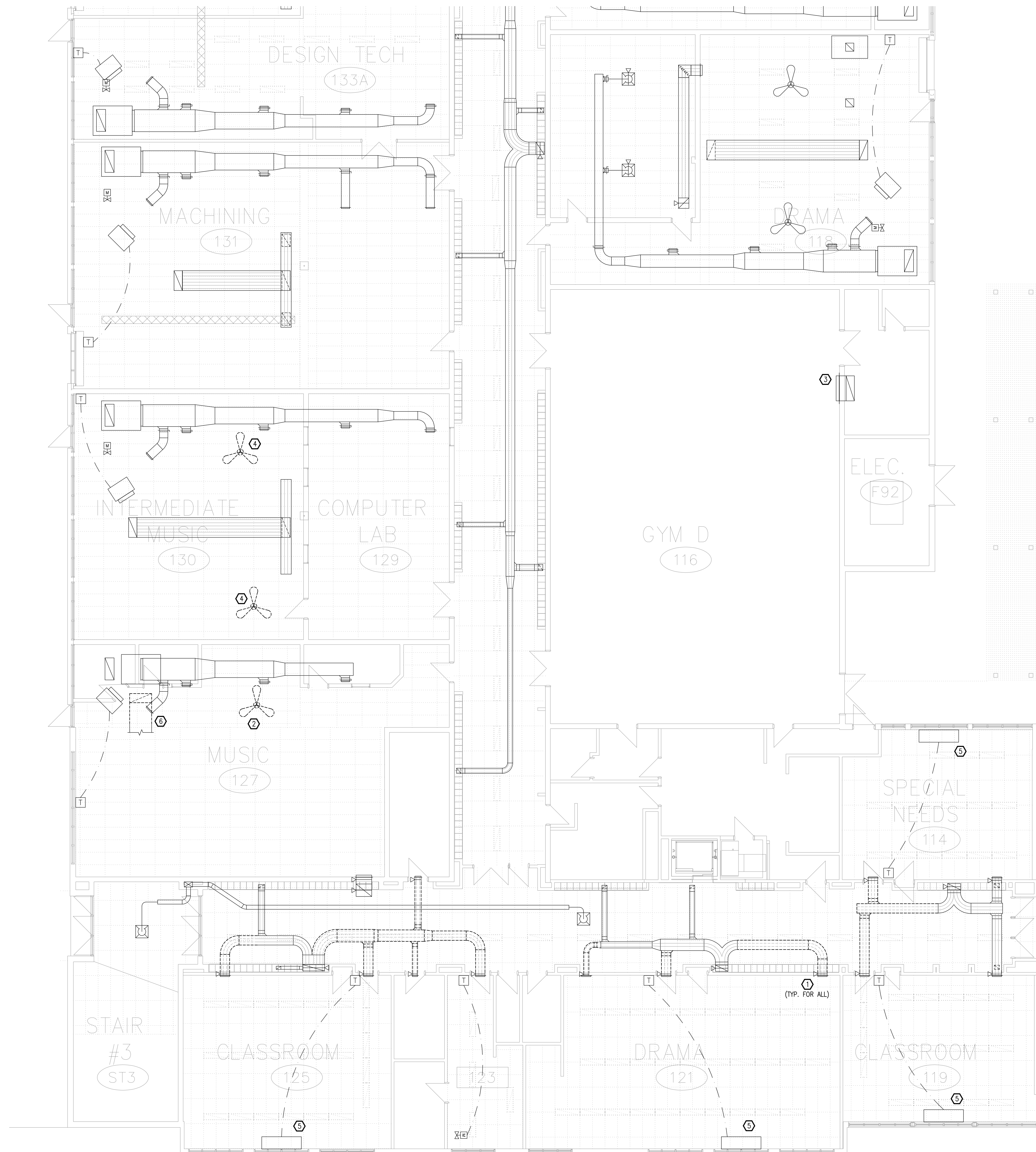
DRAWING:
MECHANICAL:
GROUND FLOOR PART 1 –
HVAC DEMOLITION



DATE: APRIL 2025
DESIGNED BY: J.G.
DRAWN BY: J.G.
CHECKED BY: S.C.
SCALE: 1:100

No. DWGS: 52
PROJECT No.
25020

DRAWING No.
MD201



- DRAWING NOTES**
- 1 CUT BACK AND REMOVE DUCTWORK AS INDICATED. CAP DUCT ON CORRIDOR SIDE AND CLOSE FIRE DAMPER. WALL GRILLES TO REMAIN.
 - 2 DISCONNECT AND DISPOSE OF EXISTING CEILING FAN.
 - 3 RETURN AIR GRILLE AT LOW LEVEL AND RETURN AIR DUCT TO MEZZANINE TO REMAIN.
 - 4 DISCONNECT CEILING FAN AND STORE ON SITE FOR REINSTALLATION.
 - 5 CLOSE OUTDOOR AIR DAMPER, LOCK IN CLOSED POSITION. OPEN RETURN AIR DAMPER, LOCK IN OPEN POSITION. PROVIDE CAULKING TO SEAL OPENINGS.
 - 6 CUT BACK DUCTWORK TO WALL AND CAP.

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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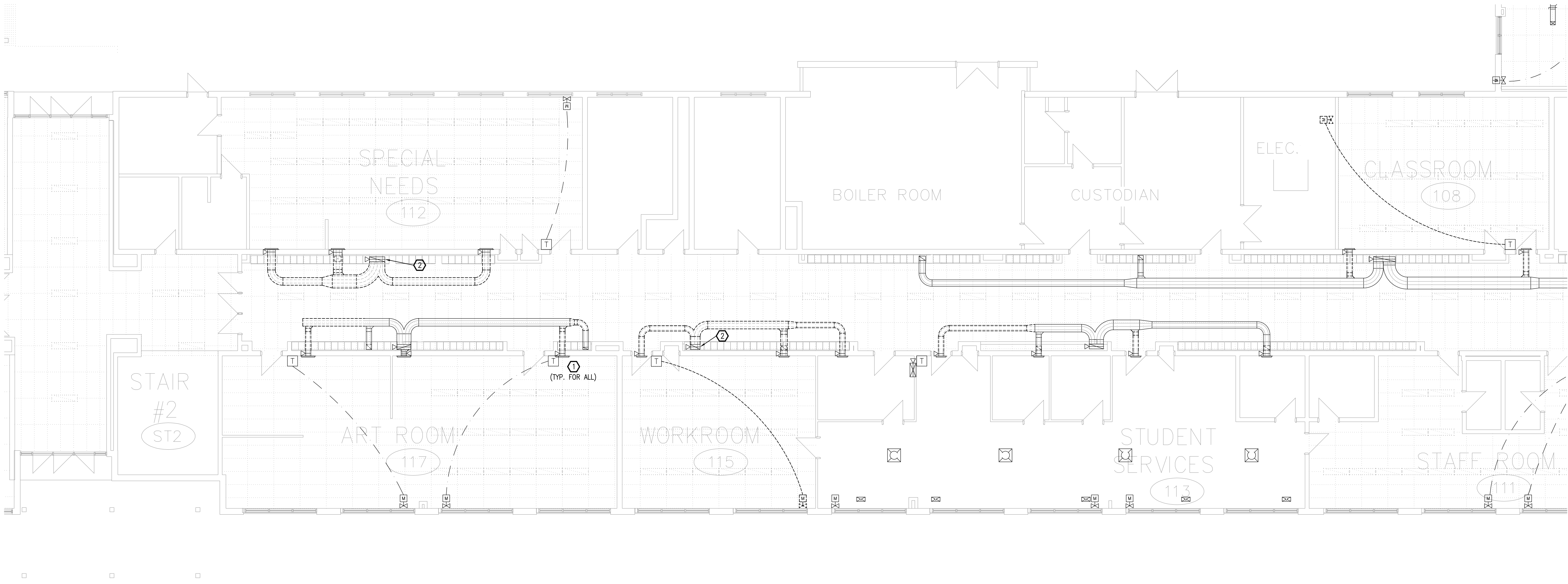
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1.	ISSUED FOR 30% REVIEW	MAY 02/25
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McKEE ENGINEERING
R.J. McKEE
ENGINEERING LTD.
1785 Woodward Drive
Ottawa, ON K2C 0P9
CANADA
Tel: (613) 723-9585
Fax: (613) 723-9584
www.mckeeottawa.ca

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

DRAWING:
MECHANICAL:
GROUND FLOOR PART 2 –
HVAC DEMOLITION

	DATE: APRIL 2025
	DESIGNED BY: J.G.
	DRAWN BY: J.G.
	CHECKED BY: S.C.
SCALE: 1:100	
No. DWGS: 52	DRAWING No.
PROJECT No. 25020	MD202




- DRAWING NOTES**
- ① CUT BACK AND REMOVE DUCTWORK AS INDICATED. CAP DUCT ON CORRIDOR SIDE AND CLOSE FIRE DAMPER, WALL GRILLES TO REMAIN.
 - ② CLOSE FIRE DAMPER AND CAP DUCT TO BE ABANDONED IN SHAFT.

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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2.	ISSUED FOR 60% REVIEW	JUN 27/25
1.	ISSUED FOR 30% REVIEW	MAY 02/25
REVISION No.	DESCRIPTION	DATE




McKee
ENGINEERING

R.J. McKEE
ENGINEERING LTD.
1785 Woodward Drive
Ottawa, ON K2C 0P9
CANADA
Tel: (613) 723-9585
Fax: (613) 723-9584
www.mckeeottawa.ca

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

DRAWING:
MECHANICAL:
GROUND FLOOR PART 3 –
HVAC DEMOLITION



S. P. CHENIER
Apr 8/26
PROVINCE OF ONTARIO

DATE: APRIL 2025

DESIGNED BY: J.G.

DRAWN BY: J.G.

CHECKED BY: S.C.

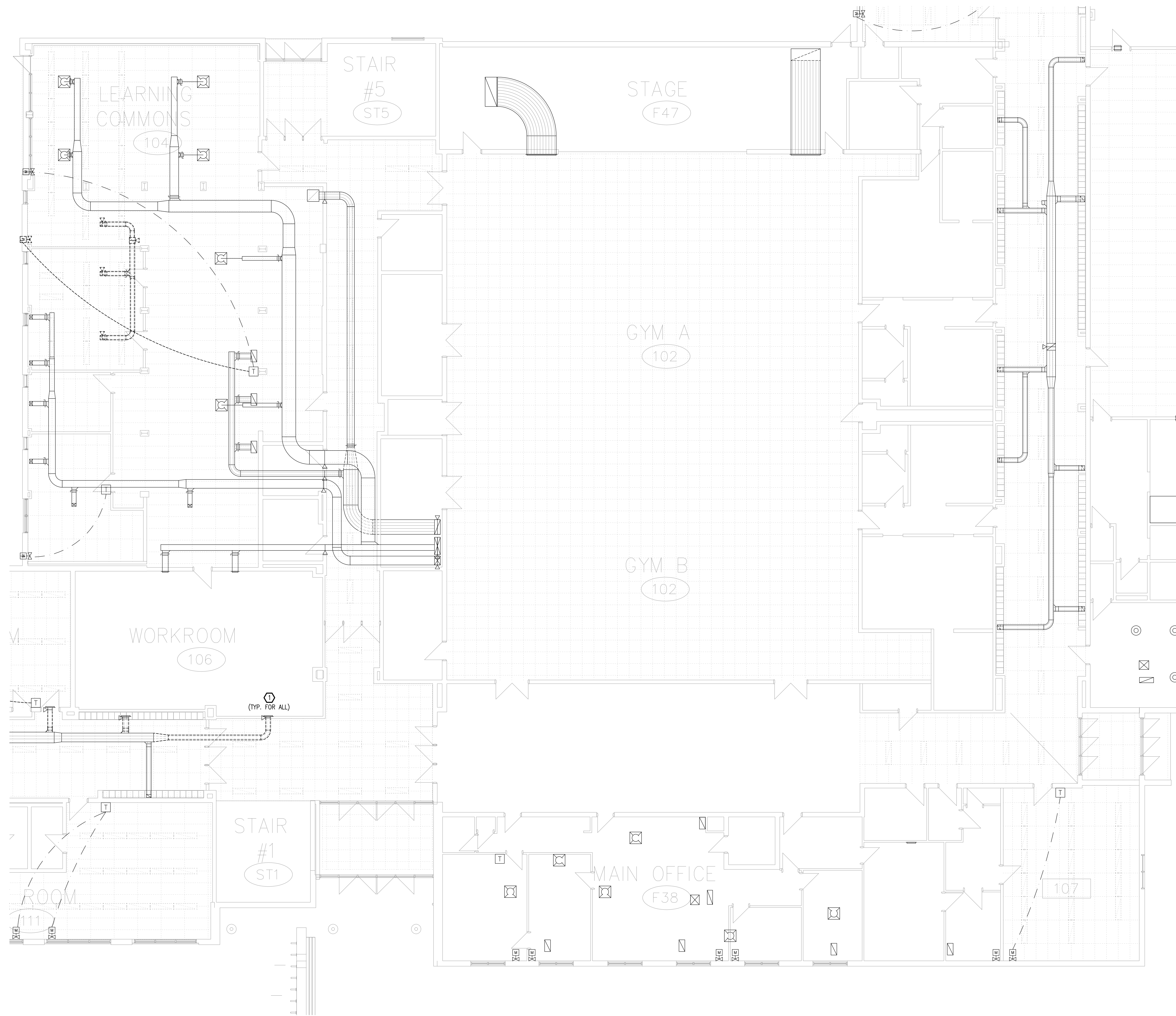
SCALE: 1:100

No. DWGS. 52

PROJECT No. 25020

DRAWING No.

MD203



DRAWING NOTES

① CUT BACK AND REMOVE DUCTWORK AS INDICATED. CAP DUCT ON CORRIDOR SIDE AND CLOSE FIRE DAMPER. WALL GRILLES TO REMAIN.

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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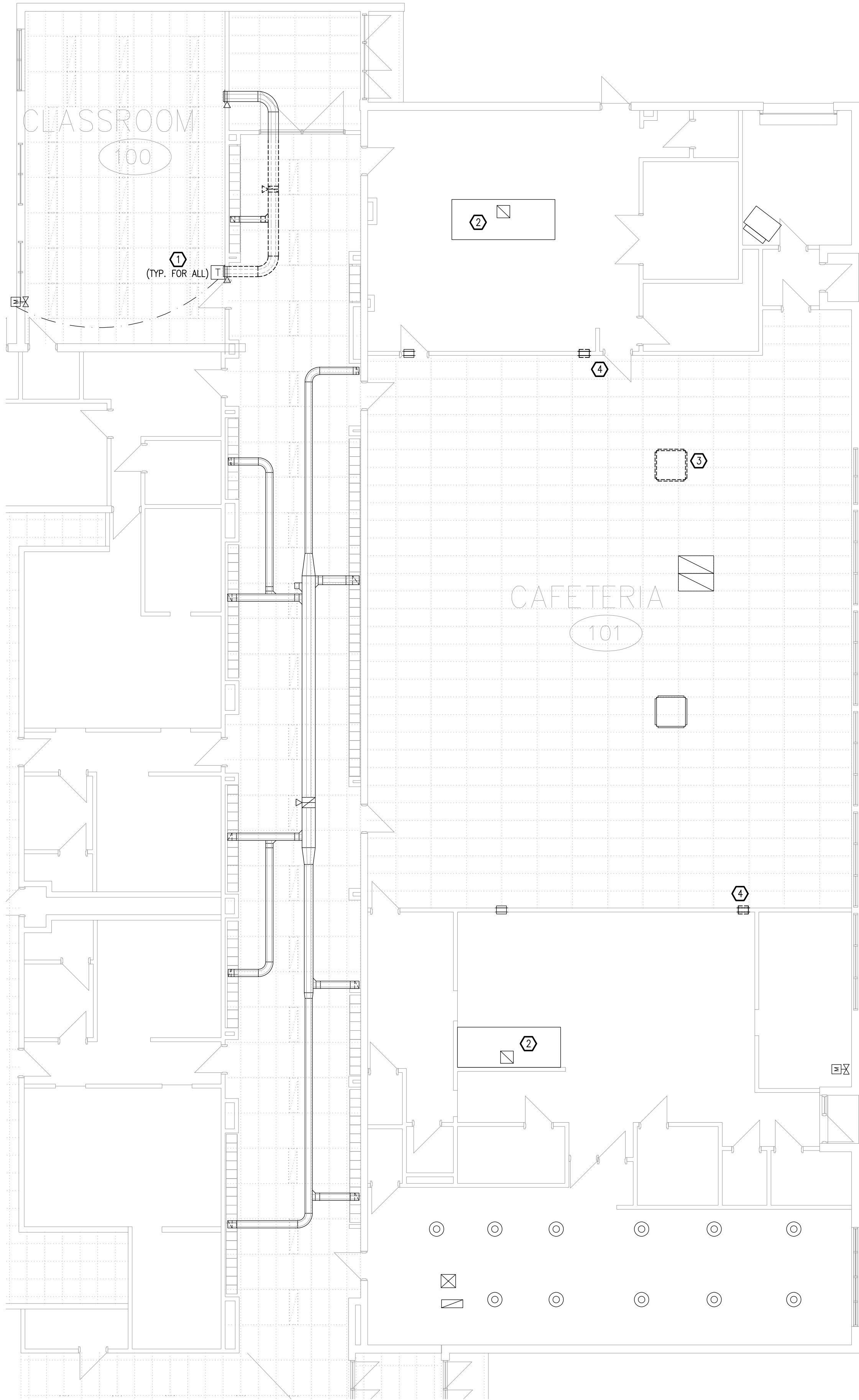
5.	ISSUED FOR TENDER & PERMIT	APR 08/26
4.	ISSUED FOR 99% REVIEW	OCT 9/25
3.	ISSUED FOR 90% REVIEW	AUG 27/25
2.	ISSUED FOR 60% REVIEW	JUN 27/25
1.	ISSUED FOR 30% REVIEW	MAY 02/25
REVISION No.	DESCRIPTION	DATE

McKEE ENGINEERING
R.J. McKEE
ENGINEERING LTD.
1785 Woodward Drive
Ottawa, ON K2C 0P9
CANADA
Tel: (613) 723-9585
Fax: (613) 723-9584
www.mckeeottawa.ca

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

DRAWING:
MECHANICAL:
GROUND FLOOR PART 4 –
HVAC DEMOLITION

	DATE: APRIL 2025
	DESIGNED BY: J.G.
	DRAWN BY: J.G.
	CHECKED BY: S.C.
SCALE: 1:100	
No. DWGS: 52	DRAWING No.
PROJECT No. 25020	MD204



- DRAWING NOTES**
- 1 CUT BACK AND REMOVE DUCTWORK AS INDICATED. CAP DUCT ON CORRIDOR SIDE AND CLOSE FIRE DAMPER. WALL GRILLES TO REMAIN.
 - 2 PRIOR TO ANY DEMOLITION WORK AND SUBMITTING NEW EQUIPMENT SHOP DRAWINGS, MECHANICAL CONTRACTOR SHALL TAKE EXHAUST AIRFLOW MEASUREMENTS AT THE KITCHEN HOOD AND SUBMIT REPORT.
 - 3 REMOVE SUPPLY AIR PLENUM AND DUCTWORK TO ROOF.
 - 4 REMOVE AIR TRANSFER OPENING. MODIFY OPENING AS REQUIRED TO ACCOMMODATE NEW SUPPLY AIR DUCTWORK AND GRILLE.

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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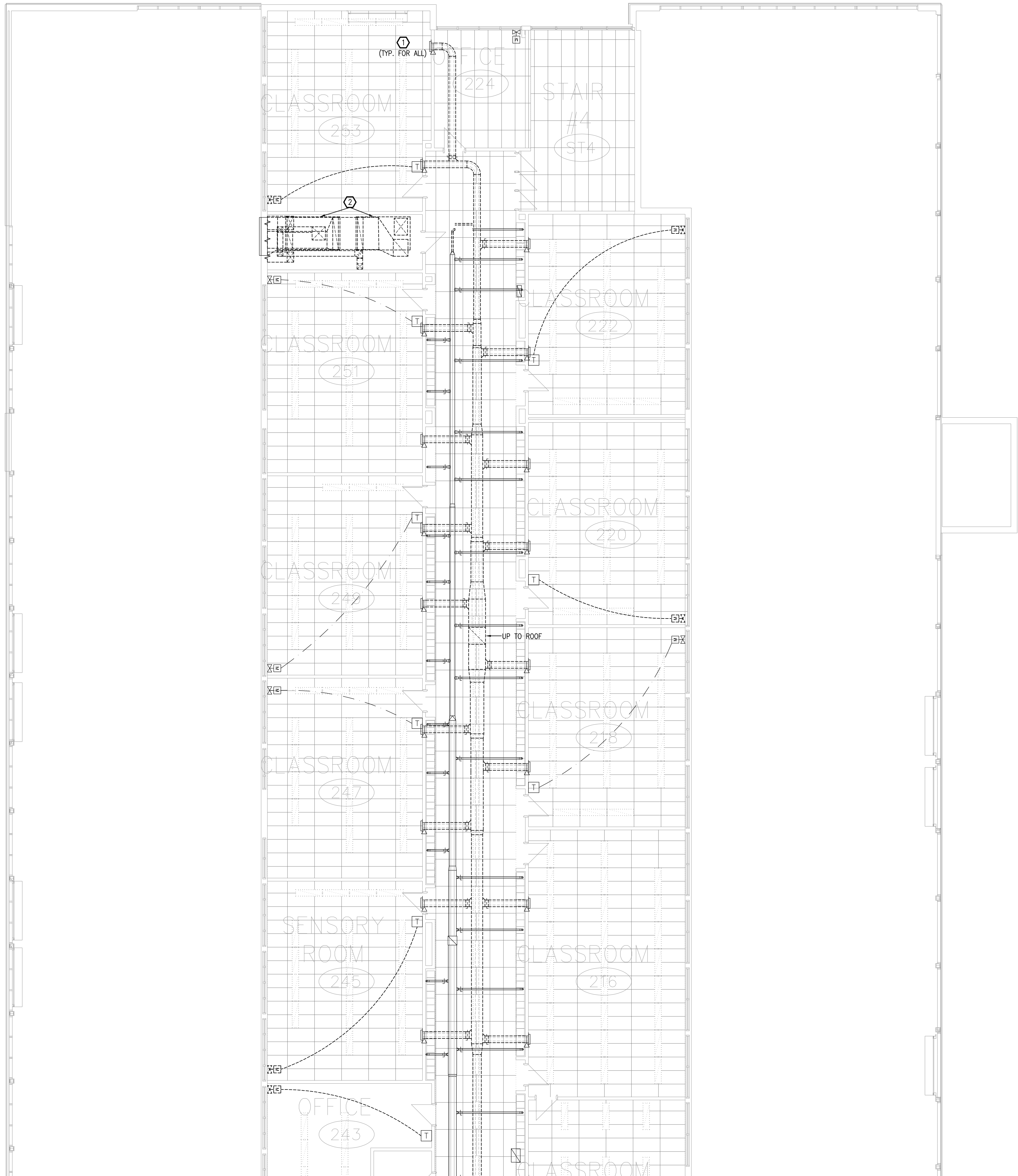
5.	ISSUED FOR TENDER & PERMIT	APR 08/26
4.	ISSUED FOR 99% REVIEW	OCT 9/25
3.	ISSUED FOR 90% REVIEW	AUG 27/25
2.	ISSUED FOR 60% REVIEW	JUN 27/25
1.	ISSUED FOR 30% REVIEW	MAY 02/25
REVISION No.	DESCRIPTION	DATE

McKEE ENGINEERING
R.J. McKEE
ENGINEERING LTD.
1785 Woodward Drive
Ottawa, ON K2C 0P9
CANADA
Tel: (613) 723-9585
Fax: (613) 723-9584
www.mckeeottawa.ca

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

DRAWING:
MECHANICAL:
GROUND FLOOR PART 5 –
HVAC DEMOLITION

	DATE: APRIL 2025
	DESIGNED BY: J.G.
	DRAWN BY: J.G.
	CHECKED BY: S.C.
	SCALE: 1:100
No. DWGS. 52	DRAWING No.
PROJECT No. 25020	MD205




- DRAWING NOTES**
- ① CUT BACK AND REMOVE DUCTWORK AS INDICATED. CAP DUCT ON CORRIDOR SIDE AND CLOSE FIRE DAMPER. WALL GRILLES TO REMAIN.
 - ② REMOVE EXISTING AIR HANDLING UNITS AND ASSOCIATED SUPPLY, RETURN, INTAKE, AND EXHAUST DUCTWORK, MOTORIZED DAMPERS, BLOWER FAN, AND ALL REDUNDANT SYSTEMS. EXTERIOR WALL LOUVER TO REMAIN.

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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5.	ISSUED FOR TENDER & PERMIT	APR 08/26
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2.	ISSUED FOR 60% REVIEW	JUN 27/25
1.	ISSUED FOR 30% REVIEW	MAY 02/25
REVISION No.	DESCRIPTION	DATE




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R.J. McKEE
ENGINEERING LTD.
1785 Woodward Drive
Ottawa, ON K2C 0P9
CANADA
Tel: (613) 723-9585
Fax: (613) 723-9584
www.mckeeottawa.ca

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

DRAWING:
MECHANICAL:
SECOND FLOOR PART 1 –
HVAC DEMOLITION



LICENSED PROFESSIONAL ENGINEER
S. P. CHENIER
Apr 8/26
PROVINCE OF ONTARIO

DATE: APRIL 2025

DESIGNED BY: J.G.

DRAWN BY: J.G.

CHECKED BY: S.C.

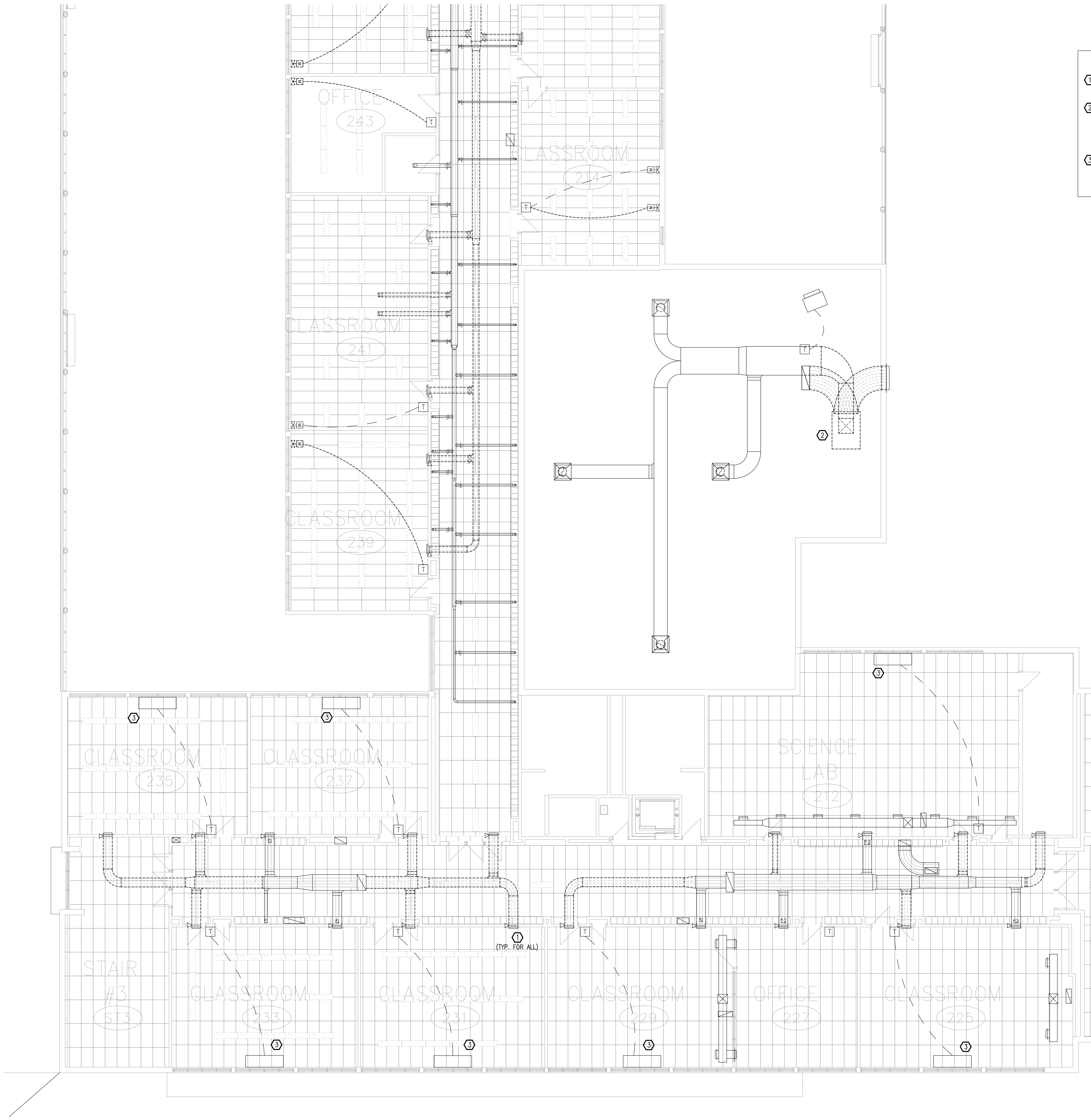
SCALE: 1:100

No. DWGS. 52

PROJECT No. 25020

DRAWING No.

MD206



- DRAWING NOTES**
- ① CUT BACK AND REMOVE DUCTWORK AS INDICATED. CAP DUCT ON CORRIDOR SIDE AND CLOSE FIRE DAMPER. WALL GRILLES TO REMAIN.
 - ② REMOVE EXISTING AIR HANDLING UNIT WITHIN MEZZANINE AND ASSOCIATED SUPPLY, RETURN, AND INTAKE DUCTWORK, MOTORIZED DAMPERS, BLOWER FAN AND ALL REDUNDANT SYSTEMS. EXTERIOR WALL LOUVER TO REMAIN. RETURN AIR DUCT TO LOW LEVEL GRILLE IN GYMNASIUM TO REMAIN.
 - ③ CLOSE OUTDOOR AIR DAMPER, LOCK IN CLOSED POSITION. OPEN RETURN AIR DAMPER, LOCK IN OPEN POSITION. PROVIDE CAULKING TO SEAL OPENINGS.

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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2.	ISSUED FOR 60% REVIEW	JUN 27/25
1.	ISSUED FOR 30% REVIEW	MAY 02/25

REVISION No.	DESCRIPTION	DATE
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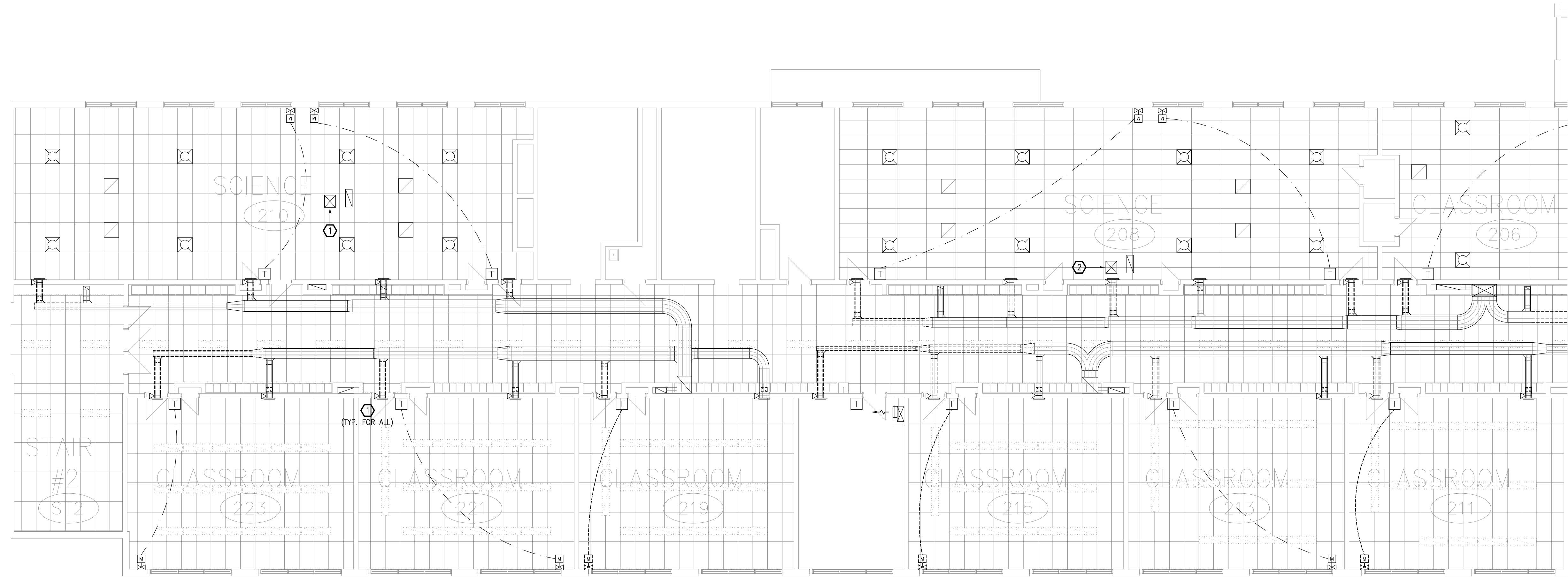
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R.J. McKEE
ENGINEERING LTD.
1785 Woodward Drive
Ottawa, ON K2C 0P9
CANADA
Tel: (613) 723-9585
Fax: (613) 723-9584
www.mckeeottawa.ca

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

DRAWING:
MECHANICAL:
SECOND FLOOR PART 2 –
HVAC DEMOLITION

	DATE: APRIL 2025
	DESIGNED BY: J.G.
	DRAWN BY: J.G.
	CHECKED BY: S.C.

No. DWGS: 52	DRAWING No.
PROJECT No.	
25020	MD207




DRAWING NOTES

① CUT BACK AND REMOVE DUCTWORK AS INDICATED. CAP DUCT ON CORRIDOR SIDE AND CLOSE FIRE DAMPER. WALL GRILLES TO REMAIN.

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2.	ISSUED FOR 60% REVIEW	JUN 27/25
1.	ISSUED FOR 30% REVIEW	MAY 02/25




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ENGINEERING

R.J. McKee
ENGINEERING LTD.
1785 Woodward Drive
Ottawa, ON K2C 0P9
CANADA
Tel: (613) 723-9585
Fax: (613) 723-9584
www.mckeeottawa.ca

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

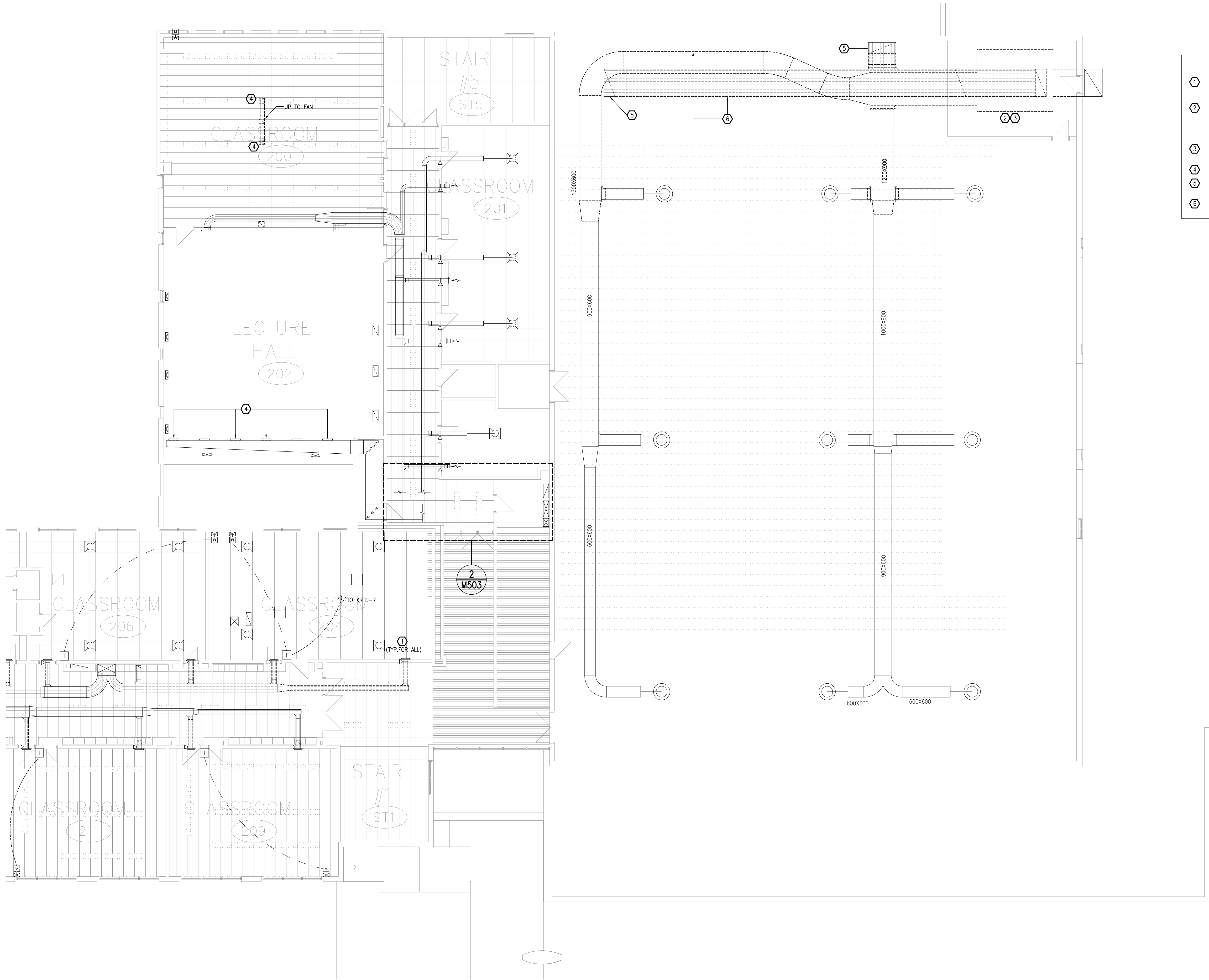
DRAWING:
MECHANICAL:
SECOND FLOOR PART 3 –
HVAC DEMOLITION



LICENCED PROFESSIONAL ENGINEER
S. P. CHENIER
Apr 8/26
PROVINCE OF ONTARIO

DATE: APRIL 2025
DESIGNED BY: J.G.
DRAWN BY: J.G.
CHECKED BY: S.C.
SCALE: AS SHOWN

No. DWGS. 52	DRAWING No.
PROJECT No. 25020	MD208



DRAWING NOTES

- 1 CUT BACK AND REMOVE DUCTWORK AS INDICATED. CAP DUCT ON CORRIDOR SIDE AND CLOSE FIRE DAMPER. WALL GRILLES TO REMAIN.
- 2 REMOVE EXISTING AIR HANDLING UNIT AND ASSOCIATED SUPPLY, RETURN, AND INTAKE DUCTWORK, MOTORIZED DAMPERS, BLOWER FAN AND, ALL REDUNDANT SYSTEMS. EXTERIOR WALL LOUVER TO REMAIN.
- 3 REMOVE STEEL STRUCTURE SUPPORTING EXISTING AIR HANDLING UNIT.
- 4 REMOVE GRILLE.
- 5 RETURN AIR DUCT DROPS TO LOW LEVEL TO REMAIN.
- 6 REMOVE DUCTWORK ABOVE STAGE. PROVIDE SCAFFOLDING AS REQUIRED.

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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2.	ISSUED FOR 60% REVIEW	JUN 27/25
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REVISION No.	DESCRIPTION	DATE

McKEE ENGINEERING
R.J. McKEE
ENGINEERING LTD.
1785 Woodward Drive
Ottawa, ON K2C 0P9
CANADA
Tel: (613) 723-9585
Fax: (613) 723-9584
www.mckeeottawa.ca

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

DRAWING:
MECHANICAL:
SECOND FLOOR PART 4 –
HVAC DEMOLITION



DATE: APRIL 2025
DESIGNED BY: J.G.
DRAWN BY: J.G.
CHECKED BY: S.C.

SCALE: 1:100

No. DWGS. 52
PROJECT No.
25020

DRAWING No.

MD209




DRAWING NOTES

① DISCONNECT AND REMOVE EXISTING EXHAUST FAN AND ASSOCIATED DUCTWORK. DISCONNECT AND REMOVE ALL REDUNDANT SYSTEMS. ROOF CURB TO REMAIN, TO BE INSULATED AND CAPPED WEATHER TIGHT.

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

**McKee**
ENGINEERING


R.J. McKee
ENGINEERING LTD.
1785 Woodward Drive
Ottawa, ON K2C 0P9
CANADA
Tel: (613) 723-9585
Fax: (613) 723-9584
www.mckeeottawa.ca

PROJECT:

TISS – MECHANICAL REPLACEMENT
2510 PARKDALE AVE
BROCKVILLE, ON

DRAWING:

MECHANICAL:
ROOF PLAN PART 1 – DEMOLITION



DATE: APRIL 2025
DESIGNED BY: J.G.
DRAWN BY: J.G.
CHECKED BY: S.C.
SCALE: 1:100

No. DWGS: 52
PROJECT No. 25020

DRAWING No. MD301




DRAWING NOTES

① DISCONNECT AND REMOVE EXISTING GOOSENECK AND ASSOCIATED DUCTWORK. ROOF CURB TO REMAIN, TO BE INSULATED AND CAPPED WEATHER TIGHT.

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5.	ISSUED FOR TENDER & PERMIT	APR 08/26
4.	ISSUED FOR 99% REVIEW	OCT 9/25
3.	ISSUED FOR 90% REVIEW	AUG 27/25
2.	ISSUED FOR 60% REVIEW	JUN 27/25
1.	ISSUED FOR 30% REVIEW	MAY 02/25
REVISION No.	DESCRIPTION	DATE




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R.J. McKEE
ENGINEERING LTD.
1785 Woodward Drive
Ottawa, ON K2C 0P9
CANADA
Tel: (613) 723-9585
Fax: (613) 723-9584
www.mckeeottawa.ca

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

DRAWING:
MECHANICAL:
ROOF PLAN PART 2 – DEMOLITION



LICENSED PROFESSIONAL ENGINEER
S. P. CHENIER
Apr 8/26
PROVINCE OF ONTARIO

DATE: APRIL 2025

DESIGNED BY: J.G.

DRAWN BY: J.G.

CHECKED BY: S.C.

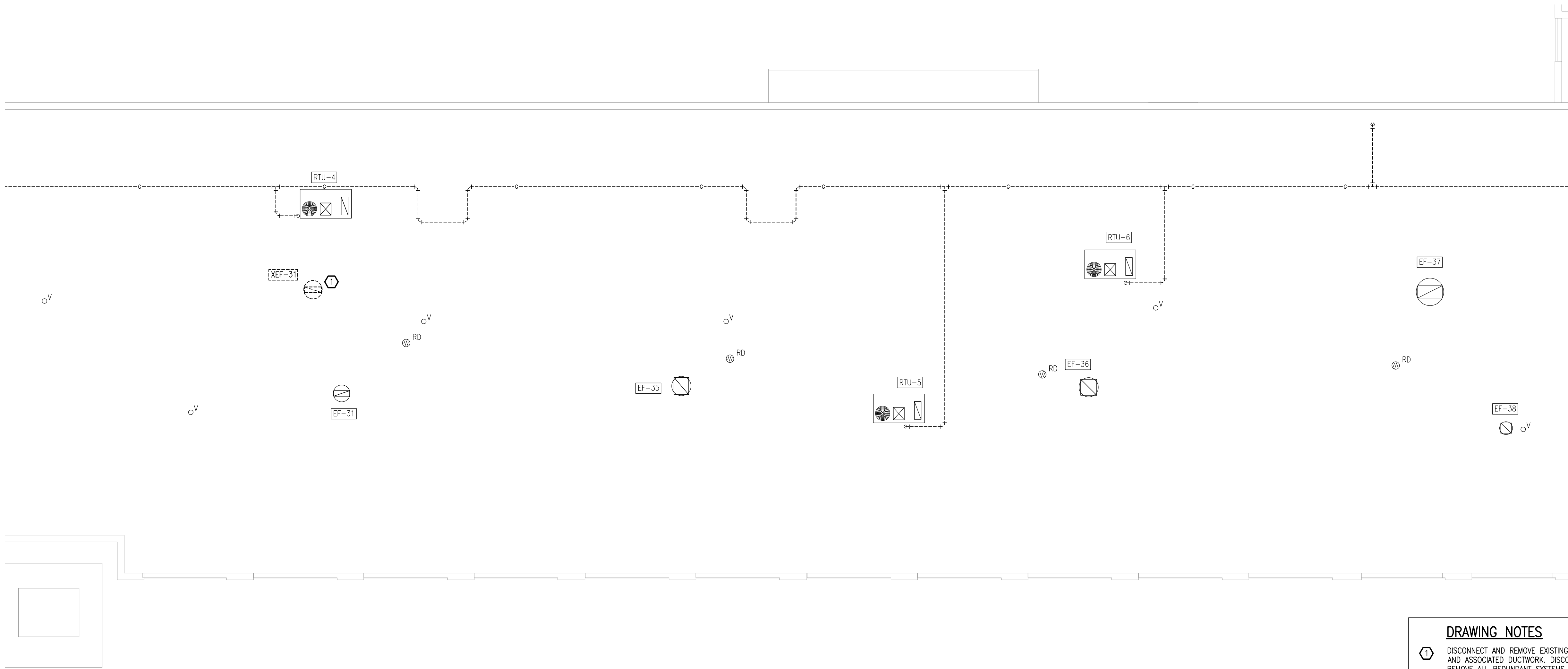
SCALE: 1:100

No. DWGS: 52

PROJECT No. 25020

DRAWING No.

MD302




DRAWING NOTES

① DISCONNECT AND REMOVE EXISTING EXHAUST FAN AND ASSOCIATED DUCTWORK. DISCONNECT AND REMOVE ALL REDUNDANT SYSTEMS. ROOF CURB TO REMAIN, TO BE INSULATED AND CAPPED WEATHER TIGHT.

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REVISION No.	DESCRIPTION	DATE



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ENGINEERING LTD.
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Ottawa, ON K2C 0P9
CANADA
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PROJECT:
TISS – MECHANICAL REPLACEMENT
2510 PARKDALE AVE
BROCKVILLE, ON

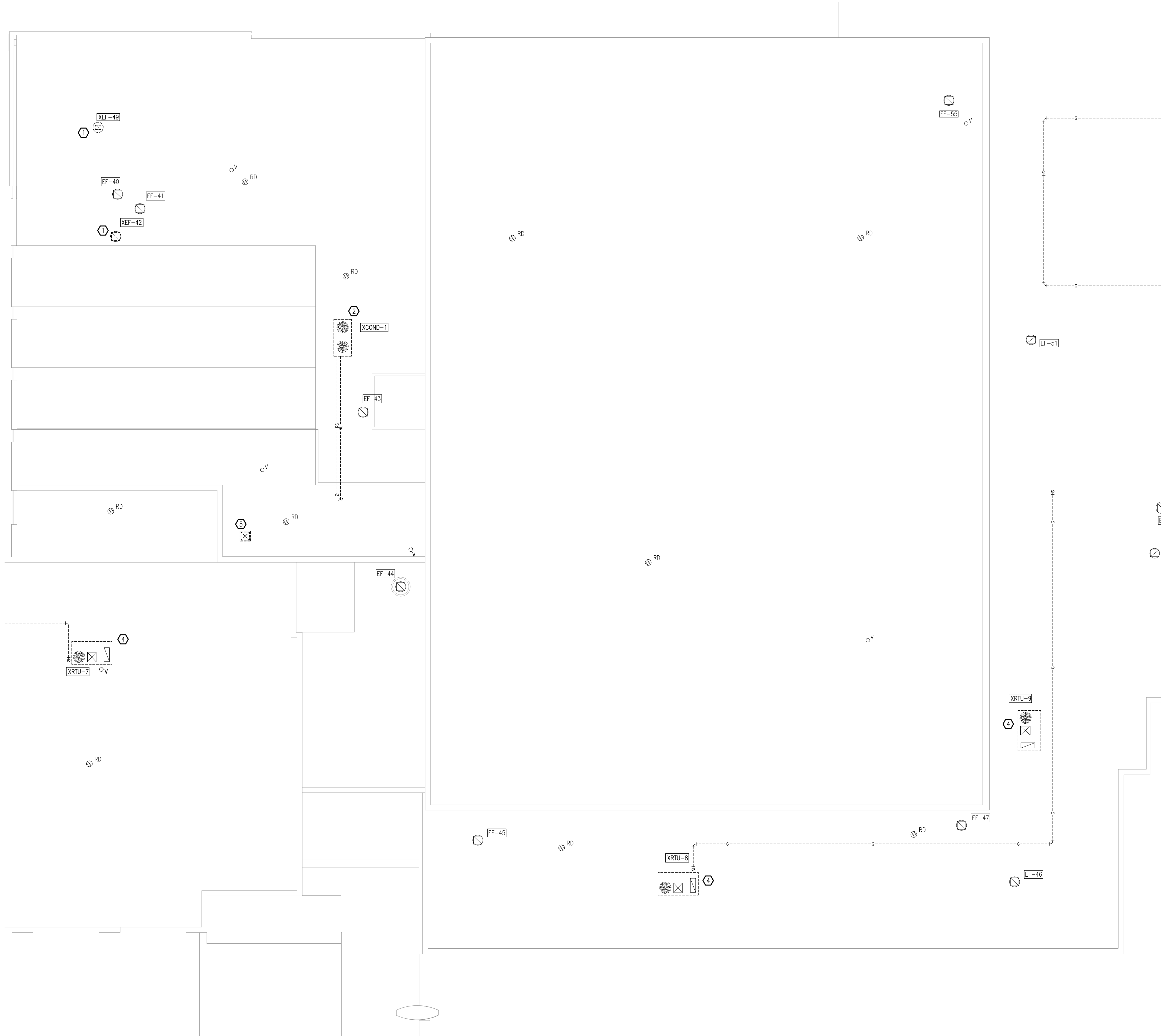
DRAWING:
MECHANICAL:
ROOF PLAN PART 3 – DEMOLITION



DATE: APRIL 2025
DESIGNED BY: J.G.
DRAWN BY: J.G.
CHECKED BY: S.C.
SCALE: 1:100

No. DWGS. 52
PROJECT No. 25020

DRAWING No. MD303




DRAWING NOTES

- 1 DISCONNECT AND REMOVE EXISTING EXHAUST FAN AND ASSOCIATED DUCTWORK. DISCONNECT AND REMOVE ALL REDUNDANT SYSTEMS. ROOF CURB TO REMAIN, TO BE INSULATED AND CAPPED WEATHER TIGHT.
- 2 REMOVE AIR COOLED CONDENSER AND REFRIGERATION PIPING TO MECHANICAL ROOM AS WELL AS SUPPORTS AND REDUNDANT SYSTEMS.
- 3 NOT USED.
- 4 REMOVE ROOFTOP UNIT AND ROOF CURB. CUT BACK DUCTWORK AS REQUIRED TO SUIT NEW ROOFTOP UNIT CONNECTIONS.
- 5 REMOVE AIR INTAKE LOUVER BOX. ROOF CURB TO REMAIN, TO BE INSULATED AND CAPPED WEATHER TIGHT.

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1.	ISSUED FOR 30% REVIEW	MAY 02/25
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ENGINEERING LTD.
1785 Woodward Drive
Ottawa, ON K2C 0P9
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www.mckeeottawa.ca

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

DRAWING:
MECHANICAL:
ROOF PLAN PART 4 – DEMOLITION



DATE: APRIL 2025

DESIGNED BY: J.G.

DRAWN BY: J.G.

CHECKED BY: S.C.

SCALE: 1:100

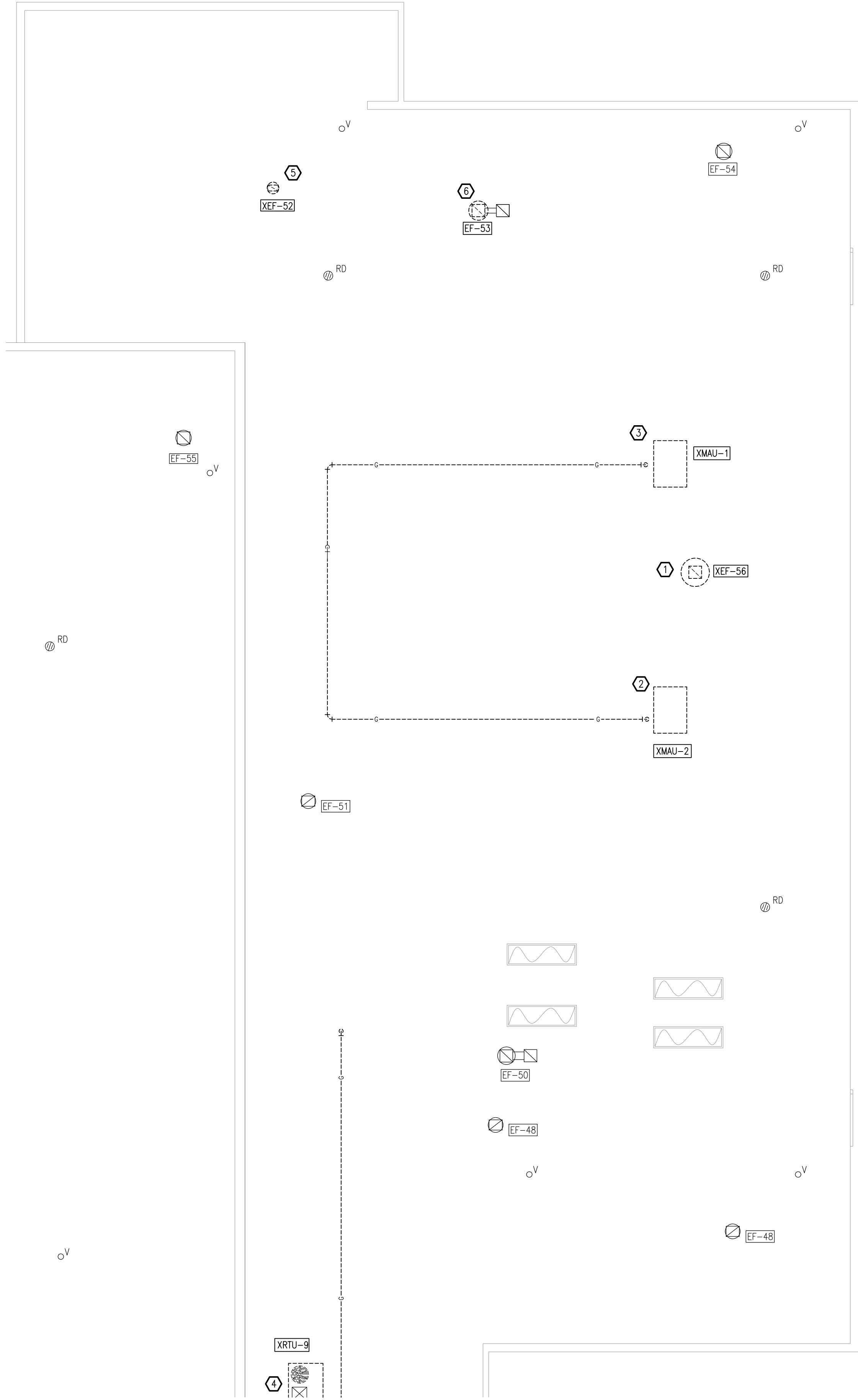
No. DWGS. 52

PROJECT No.

25020

DRAWING No.

MD304



DRAWING NOTES

- 1 REMOVE EXHAUST FAN, ROOF CURB AND DUCTWORK TO REMAIN.
- 2 REMOVE OUTDOOR AIR SUPPLY UNIT AND ROOF CURB. DUCTWORK INTO BUILDING TO REMAIN.
- 3 REMOVE OUTDOOR AIR SUPPLY UNIT, DUCTWORK, ROOF CURB, AND ALL ASSOCIATED REDUNDANT SYSTEMS.
- 4 REMOVE ROOFTOP UNIT AND ROOF CURB. CUT BACK DUCTWORK AS REQUIRED TO SUIT NEW ROOFTOP UNIT CONNECTIONS.
- 5 DISCONNECT AND REMOVE EXISTING EXHAUST FAN AND ASSOCIATED DUCTWORK. DISCONNECT AND REMOVE ALL REDUNDANT SYSTEMS. ROOF CURB TO REMAIN, TO BE INSULATED AND CAPPED WEATHER TIGHT.
- 6 NFPA KITCHEN HOOD EXHAUST FAN TO BE RELOCATED TO NEW LOCATION INDICATED ON DRAWINGS.

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

DRAWING:
MECHANICAL:
ROOF PLAN PART 5 – DEMOLITION



DATE: APRIL 2025

DESIGNED BY: J.G.

DRAWN BY: J.G.

CHECKED BY: S.C.

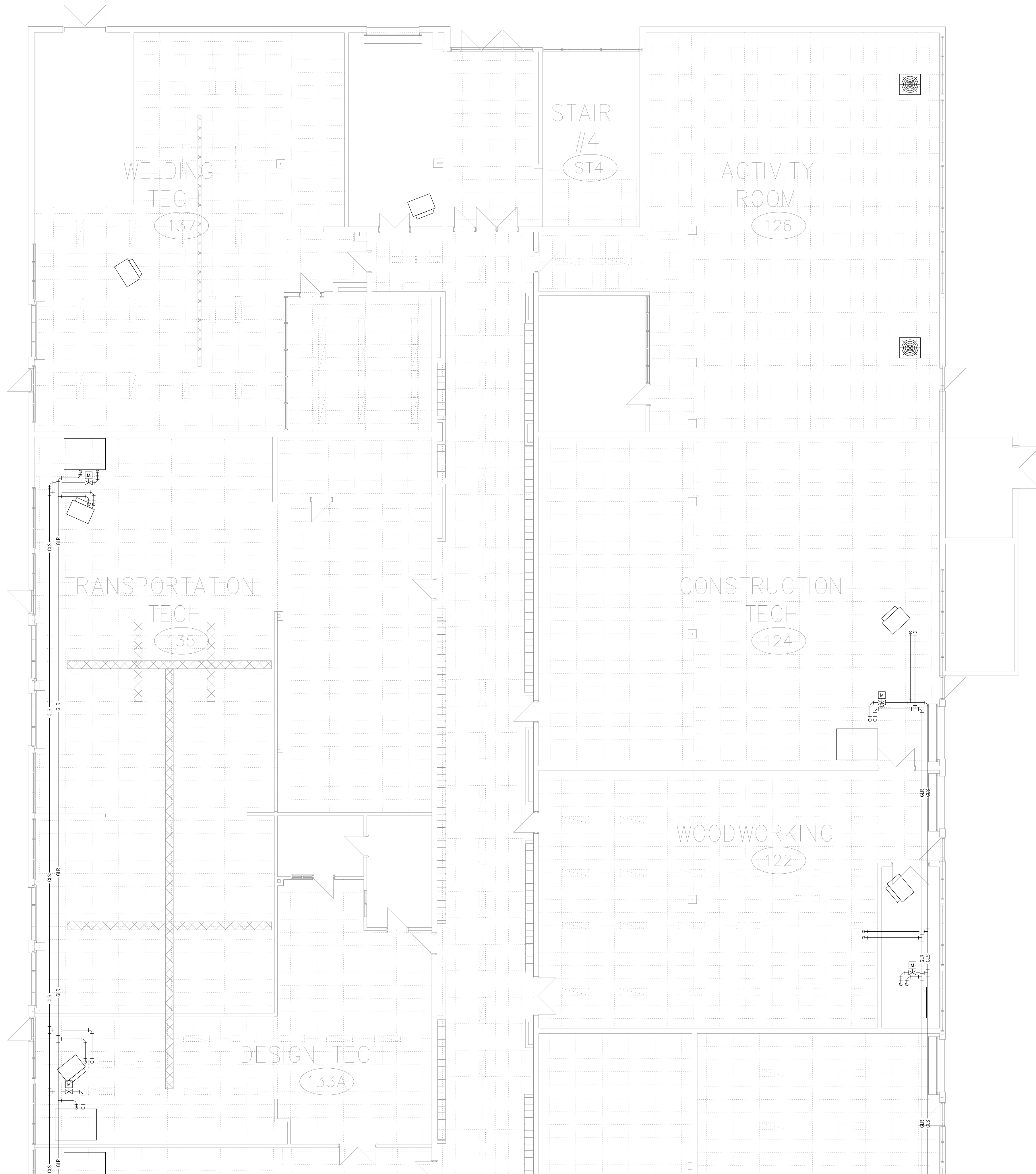
SCALE: 1:100

No. DWGS. 52

DRAWING No.

PROJECT No.
25020

MD305




GENERAL NOTES

1. NO NEW SCOPE ON THIS DRAWING. INCLUDED FOR INFORMATION ONLY.

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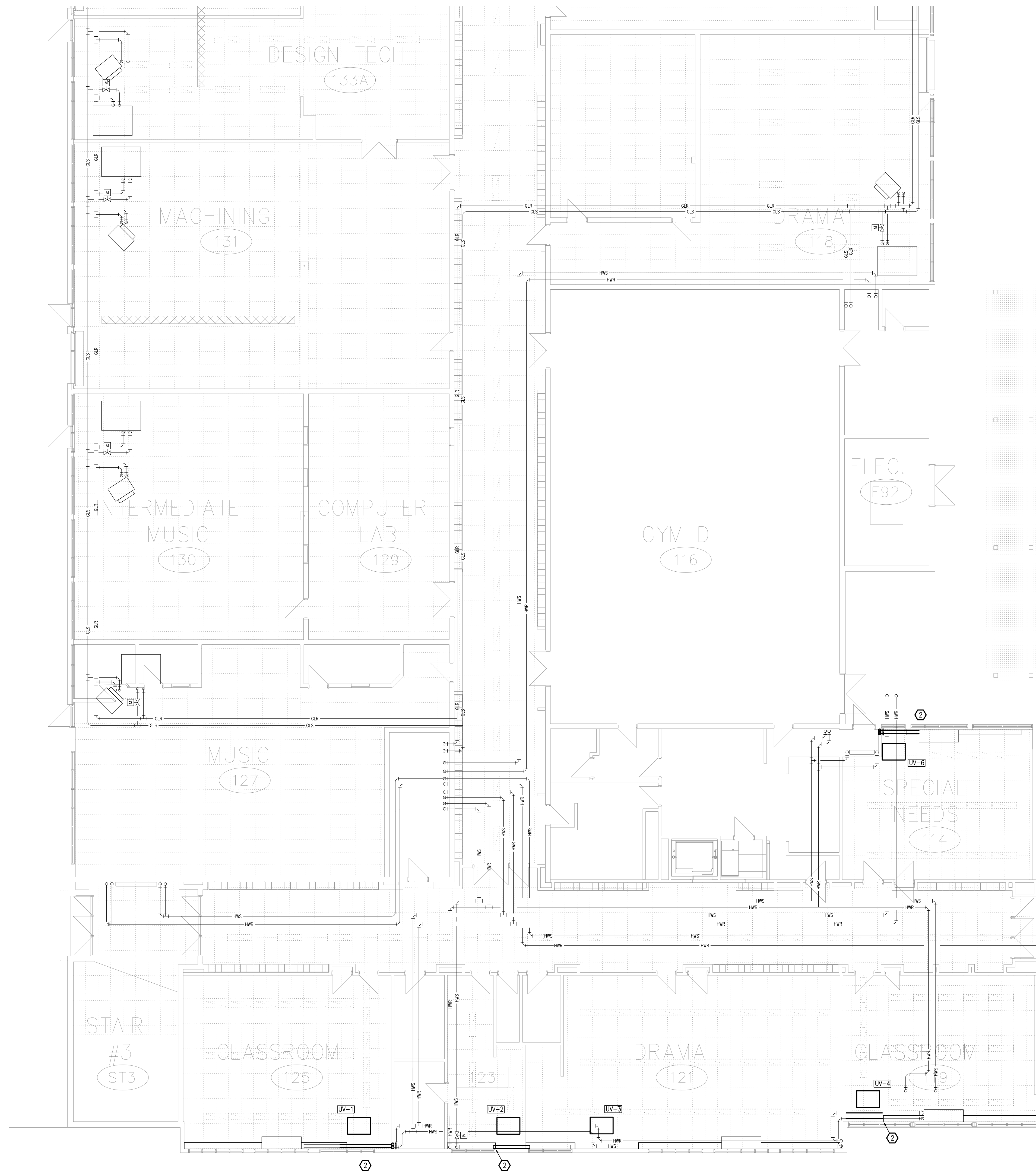
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R.J. McKEE
ENGINEERING LTD.
1785 Woodward Drive
Ottawa, ON K2C 0P9
CANADA
Tel: (613) 723-9585
Fax: (613) 723-9584
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PROJECT:
TISS – MECHANICAL REPLACEMENT
2510 PARKDALE AVE
BROCKVILLE, ON

DRAWING:
MECHANICAL:
GROUND FLOOR PART 1 –
PLUMBING AND FIRE PROTECTION

	DATE: APRIL 2025
	DESIGNED BY: J.G.
	DRAWN BY: J.G.
	CHECKED BY: S.C.
	SCALE: 1:100
No. DWGS: 52	DRAWING No.
PROJECT No. 25020	M101



DRAWING NOTES

- 1 NOT USED.
- 2 REINSTALL FINNED TUBE ELEMENTS AND SUPPORTS AS REQUIRED. DROP PIPES LOWER, THEN OFFSET PIPING BELOW CLASSROOM VENTILATOR AIR EXHAUST/INTAKE PLENUM. ADJUST PIPING TO SUIT. MODIFY OR PROVIDE NEW CONVECTOR CASING END CAP TO SUIT. REINSTALL VALVES, FITTINGS, VENTS, AND ANY OTHER DEVICES AS REQUIRED IN ACCESSIBLE LOCATION. PROVIDE CASING ACCESS DOORS AS REQUIRED.

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R.J. McKEE
ENGINEERING LTD.
1785 Woodward Drive
Ottawa, ON K2C 0P9
CANADA
Tel: (613) 723-9585
Fax: (613) 723-9584
www.mckeeottawa.ca

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

DRAWING:
MECHANICAL:
GROUND FLOOR PART 2 –
PLUMBING AND FIRE PROTECTION



DATE: APRIL 2025
DESIGNED BY: J.G.
DRAWN BY: J.G.
CHECKED BY: S.C.

SCALE: 1:100

No. DWGS: 52

PROJECT No.

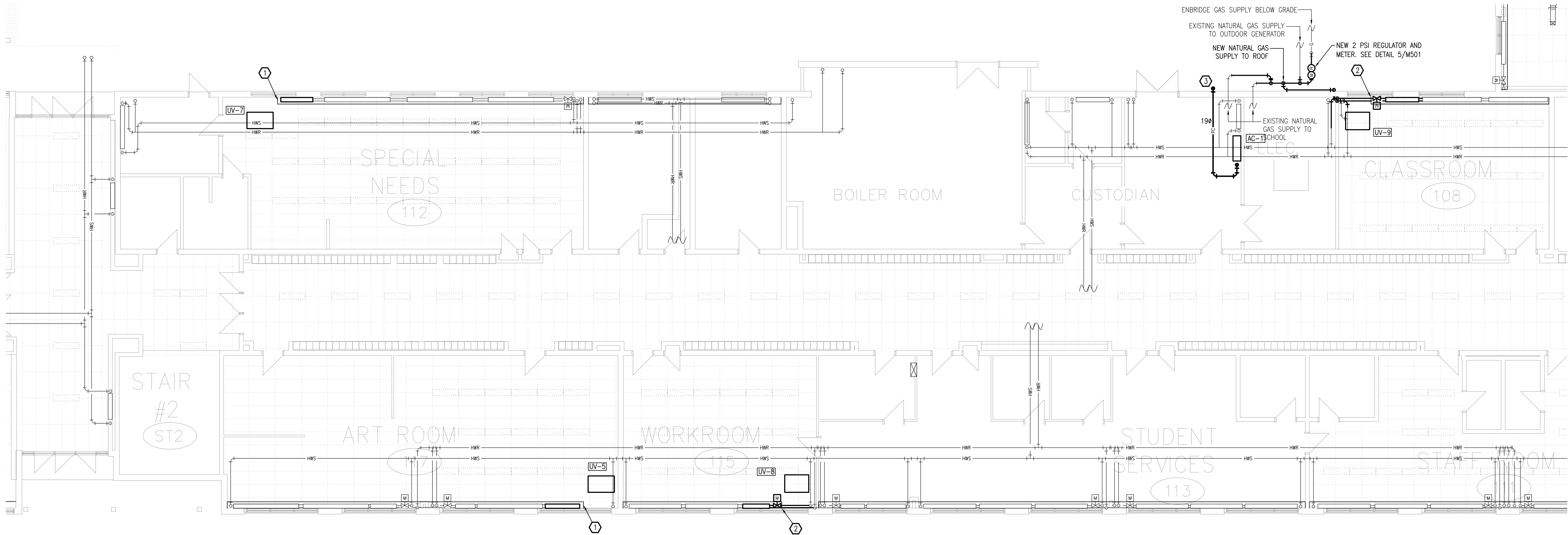
25020

DRAWING No.

PROJECT No.

25020

M102



DRAWING NOTES

- ① REINSTALL FINNED TUBE ELEMENTS AND SUPPORTS, INCLUDING SHORTENING THE FINNED TUBES AS REQUIRED. MODIFY CONNECTOR CASING AND ADD END CAP TO SUIT. REINSTALL VALVES, FITTINGS, VENTS, AND ANY OTHER DEVICES AS REQUIRED IN ACCESSIBLE LOCATION. PROVIDE CASING ACCESS DOORS AS REQUIRED.
- ② REINSTALL FINNED TUBE ELEMENTS AND SUPPORTS AS REQUIRED. DROP PIPES LOWER, THEN OFFSET PIPING BELOW CLASSROOM VENTILATOR AIR EXHAUST/INTAKE PLENUM. ADJUST PIPING TO SUIT. MODIFY OR PROVIDE NEW CONNECTOR CASING END CAP TO SUIT. REINSTALL VALVES, FITTINGS, VENTS, AND ANY OTHER DEVICES AS REQUIRED IN ACCESSIBLE LOCATION. PROVIDE CASING ACCESS DOORS AS REQUIRED.
- ③ EXTEND 100mm FROM WALL WITH DOWN ELBOW AND INSECT SCREEN.

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R.J. McKEE
ENGINEERING LTD.
1785 Woodward Drive
Ottawa, ON K2C 0P9
CANADA
Tel: (613) 723-9585
Fax: (613) 723-9584
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PROJECT:
TISS – MECHANICAL REPLACEMENT
2510 PARKDALE AVE
BROCKVILLE, ON

DRAWING:
MECHANICAL:
GROUND FLOOR PART 3 –
PLUMBING AND FIRE PROTECTION



DATE: APRIL 2025
DESIGNED BY: J.G.
DRAWN BY: J.G.
CHECKED BY: S.C.

SCALE: 1:100

No. DWGS. 52
PROJECT No.
25020

DRAWING No.
M103



DRAWING NOTES

- ① REINSTALL FINNED TUBE ELEMENTS AND SUPPORTS, INCLUDING SHORTENING THE FINNED TUBES AS REQUIRED. MODIFY CONVECTOR CASING AND ADD END CAP TO SUIT. REINSTALL VALVES, FITTINGS, VENTS, AND ANY OTHER DEVICES AS REQUIRED IN ACCESSIBLE LOCATION. PROVIDE CASING ACCESS DOORS AS REQUIRED.
- ② REINSTALL FINNED TUBE ELEMENTS AND SUPPORTS AS REQUIRED. DROP PIPES LOWER, THEN OFFSET PIPING BELOW CLASSROOM VENTILATOR AIR EXHAUST/INTAKE PLENUM. ADJUST PIPING TO SUIT. MODIFY OR PROVIDE NEW CONVECTOR CASING END CAP TO SUIT. REINSTALL VALVES, FITTINGS, VENTS, AND ANY OTHER DEVICES AS REQUIRED IN ACCESSIBLE LOCATION. PROVIDE CASING ACCESS DOORS AS REQUIRED.

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R.J. McKEE
ENGINEERING LTD.
1785 Woodward Drive
Ottawa, ON K2C 0P9
CANADA
Tel: (613) 723-9585
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PROJECT:
TISS – MECHANICAL REPLACEMENT
2510 PARKDALE AVE
BROCKVILLE, ON

DRAWING:
MECHANICAL:
GROUND FLOOR PART 4 –
PLUMBING AND FIRE PROTECTION

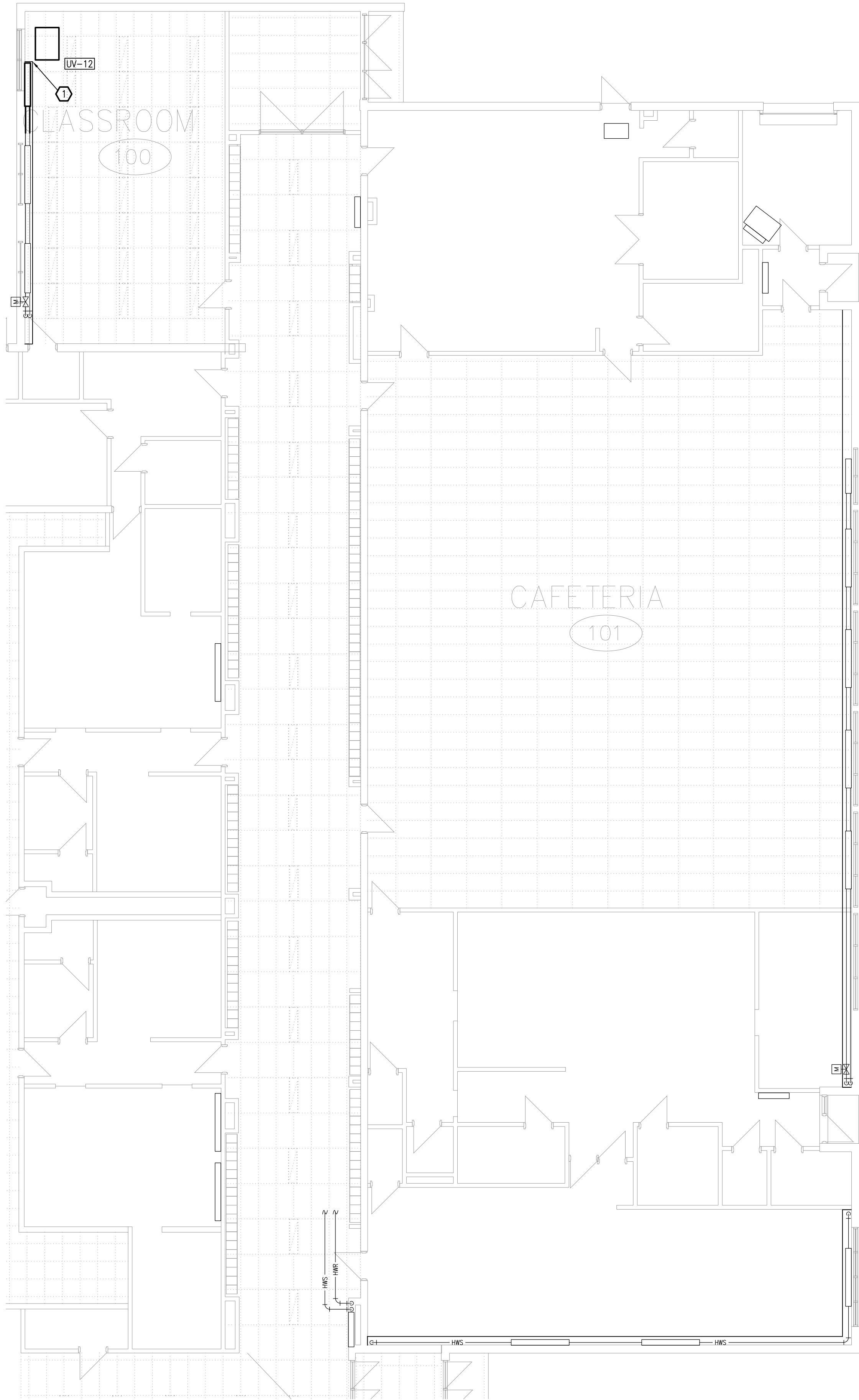


DATE: APRIL 2025
DESIGNED BY: J.G.
DRAWN BY: J.G.
CHECKED BY: S.C.

SCALE: 1:100

No. DWGS. 52
PROJECT No.
25020

DRAWING No.
M104



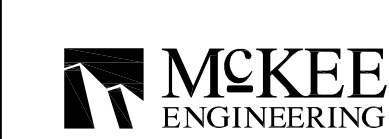
DRAWING NOTES

① REINSTALL FINNED TUBE ELEMENTS AND SUPPORTS, INCLUDING SHORTENING THE FINNED TUBES AS REQUIRED. MODIFY CONNECTOR CASING AND ADD END CAP TO SUIT. REINSTALL VALVES, FITTINGS, VENTS, AND ANY OTHER DEVICES AS REQUIRED IN ACCESSIBLE LOCATION. PROVIDE CASING ACCESS DOORS AS REQUIRED.

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

DRAWING:
MECHANICAL:
GROUND FLOOR PART 5 –
PLUMBING AND FIRE PROTECTION



DATE: APRIL 2025

DESIGNED BY: J.G.

DRAWN BY: J.G.

CHECKED BY: S.C.

SCALE: 1:100

No. DWGS. 52

PROJECT No. 25020

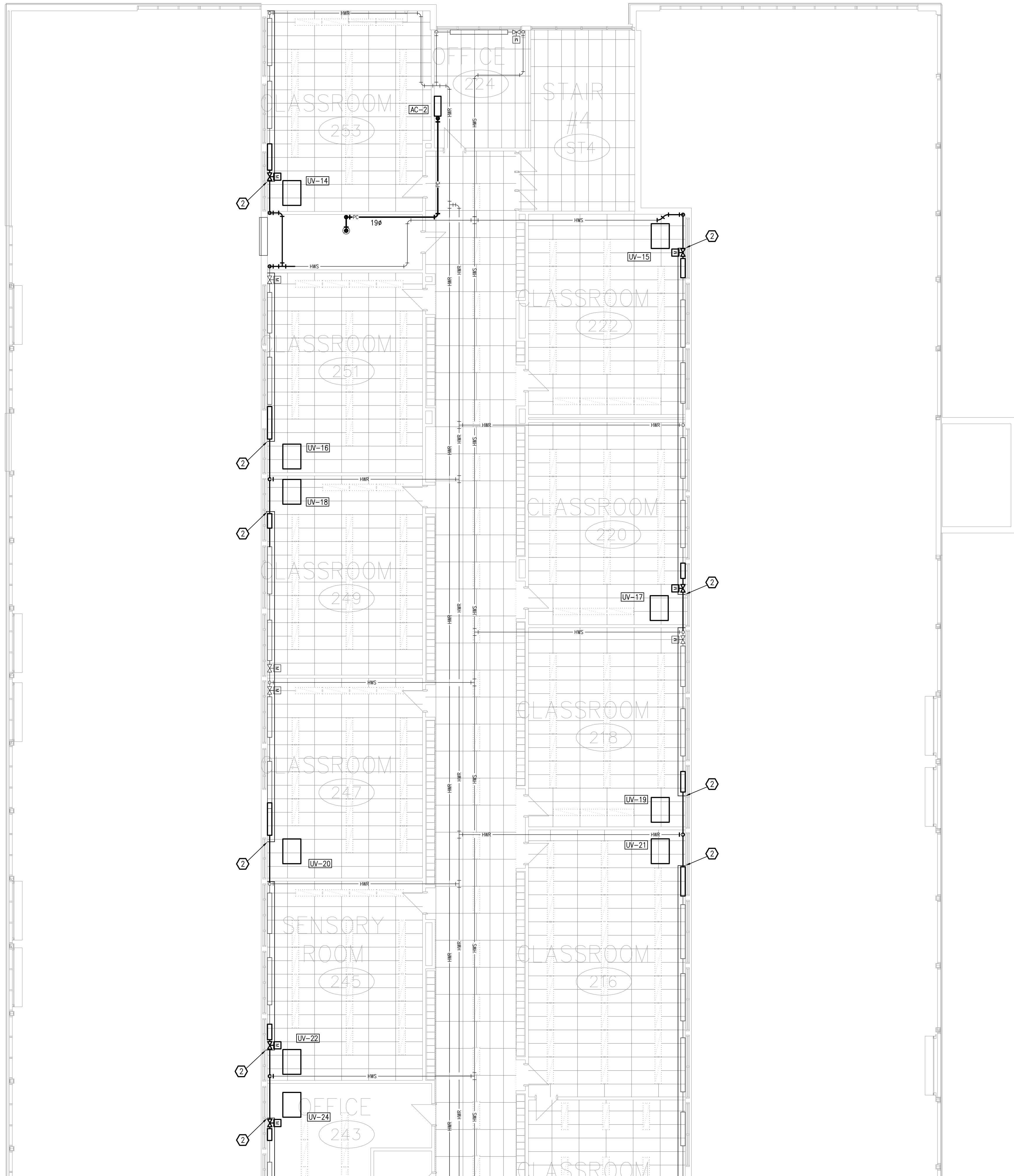
DRAWING No.

M105


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NOT USED.

REINSTALL FINNED TUBE ELEMENTS AND SUPPORTS AS REQUIRED. DROP PIPES LOWER, THEN OFFSET PIPING BELOW CLASSROOM VENTILATOR AIR EXHAUST/INTAKE PLENUM. ADJUST PIPING TO SUIT. MODIFY OR PROVIDE NEW CONVECTOR CASING END CAP TO SUIT. REINSTALL VALVES, FITTINGS, VENTS, AND ANY OTHER DEVICES AS REQUIRED IN ACCESSIBLE LOCATION. PROVIDE CASING ACCESS DOORS AS REQUIRED.




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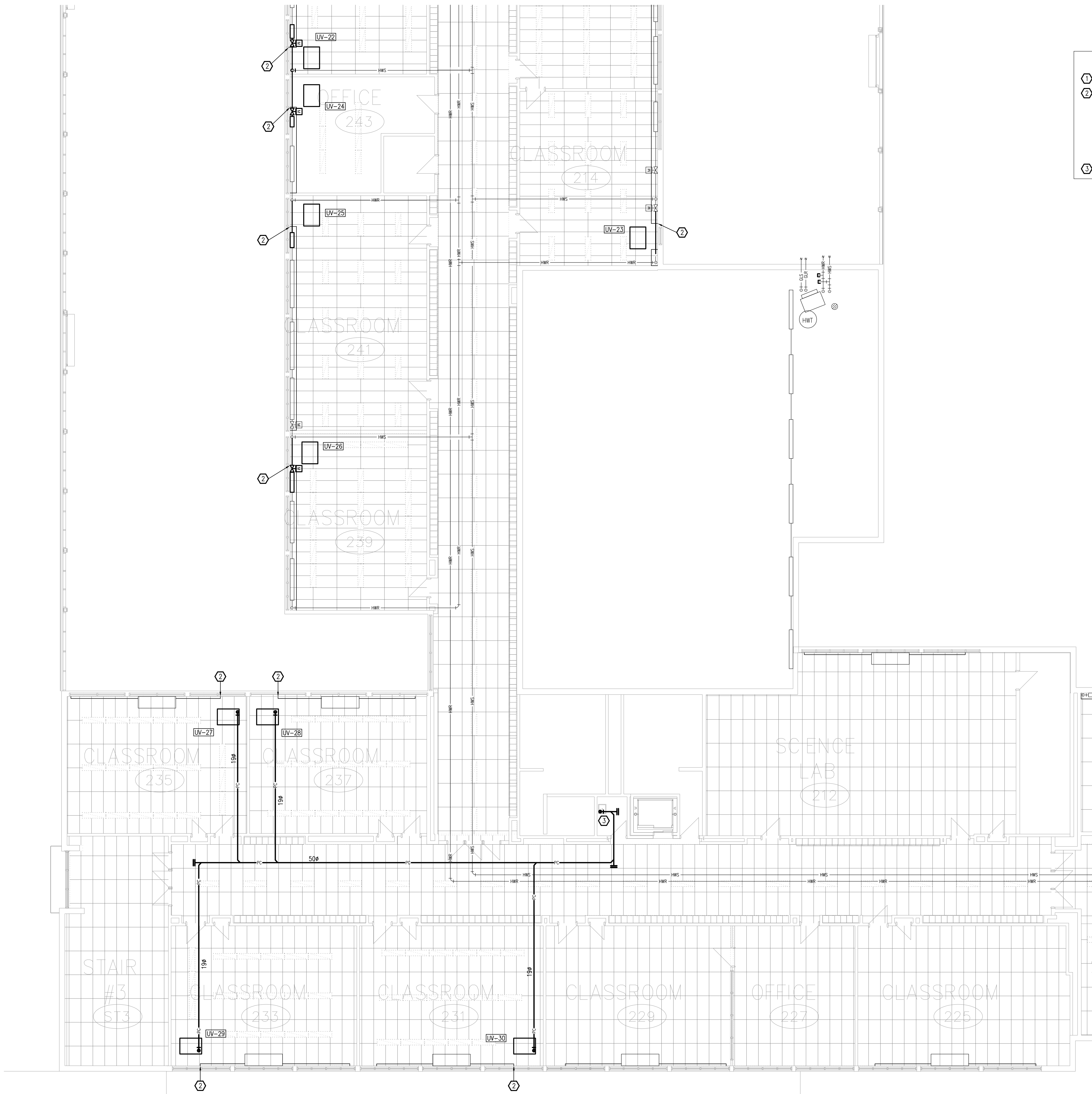
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ENGINEERING LTD.
1785 Woodward Drive
Ottawa, ON K2C 0P9
CANADA
Tel.:(613) 723-9585
Fax.:(613) 723-9584
www.mckeeottawa.ca

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

DRAWING:
MECHANICAL:
SECOND FLOOR PART 1 –
PLUMBING AND FIRE PROTECTION

	DATE: APRIL 2025
	DESIGNED BY: J.G. DRAWN BY: J.G. CHECKED BY: S.C.
No. DWGS. 52 PROJECT No. 25020	DRAWING No. M106



- DRAWING NOTES**
- 1 NOT USED.
 - 2 REINSTALL FINNED TUBE ELEMENTS AND SUPPORTS AS REQUIRED. DROP PIPES LOWER, THEN OFFSET PIPING BELOW CLASSROOM VENTILATOR AIR EXHAUST/INTAKE PLENUM. ADJUST PIPING TO SUIT. MODIFY OR PROVIDE NEW CONVECTOR CASING END CAP TO SUIT. REINSTALL VALVES, FITTINGS, VENTS, AND ANY OTHER DEVICES AS REQUIRED IN ACCESSIBLE LOCATION. PROVIDE CASING ACCESS DOORS AS REQUIRED.
 - 3 DISCHARGE INTO JANITOR SINK.

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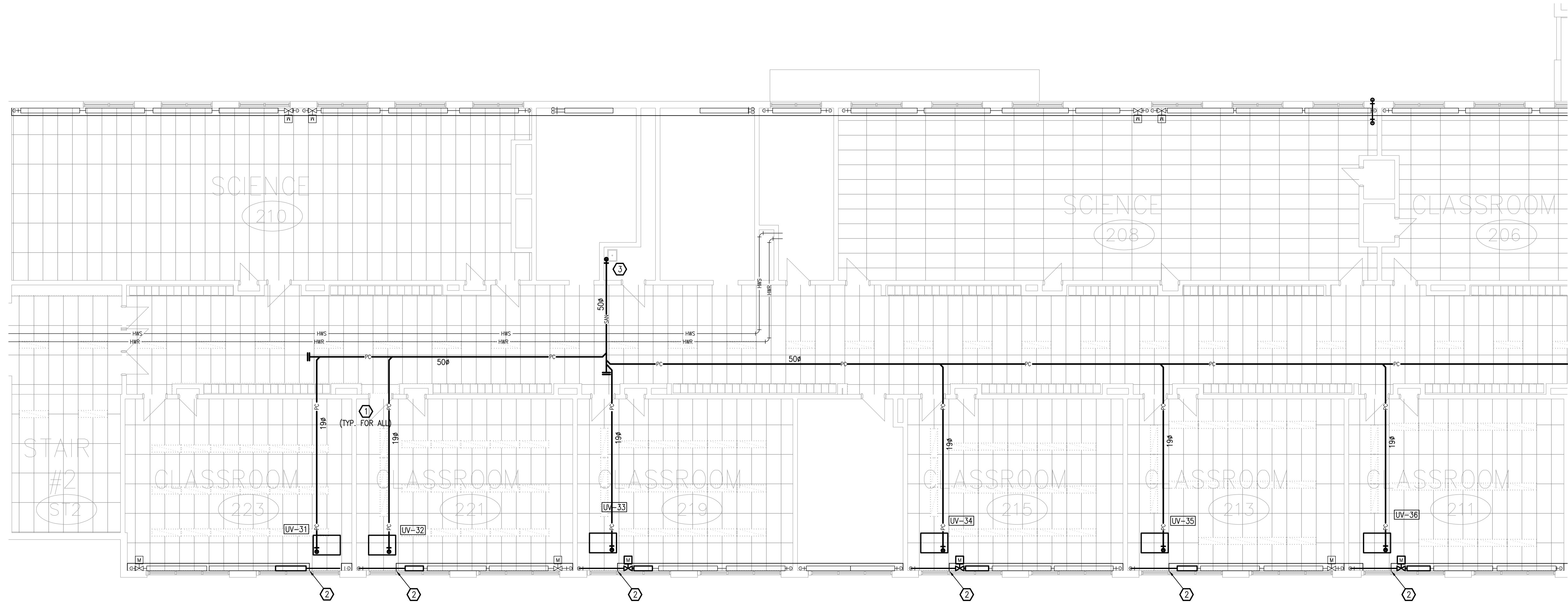
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PROJECT:
TISS – MECHANICAL REPLACEMENT
2510 PARKDALE AVE
BROCKVILLE, ON

DRAWING:
MECHANICAL:
SECOND FLOOR PART 2 –
PLUMBING AND FIRE PROTECTION

	DATE: APRIL 2025
	DESIGNED BY: J.G.
	DRAWN BY: J.G.
	CHECKED BY: S.C.
	SCALE: 1:100

No. DWGS: 52	DRAWING No.
PROJECT No. 25020	M107



- DRAWING NOTES**
- ① NOT USED.
 - ② REINSTALL FINNED TUBE ELEMENTS AND SUPPORTS AS REQUIRED. DROP PIPES LOWER, THEN OFFSET PIPING BELOW CLASSROOM VENTILATOR AIR EXHAUST/INTAKE PLENUM. ADJUST PIPING TO SUIT. MODIFY OR PROVIDE NEW CONNECTOR CASING END CAP TO SUIT. REINSTALL VALVES, FITTINGS, VENTS, AND ANY OTHER DEVICES AS REQUIRED IN ACCESSIBLE LOCATION. PROVIDE CASING ACCESS DOORS AS REQUIRED.
 - ③ DISCHARGE INTO JANITOR SINK.

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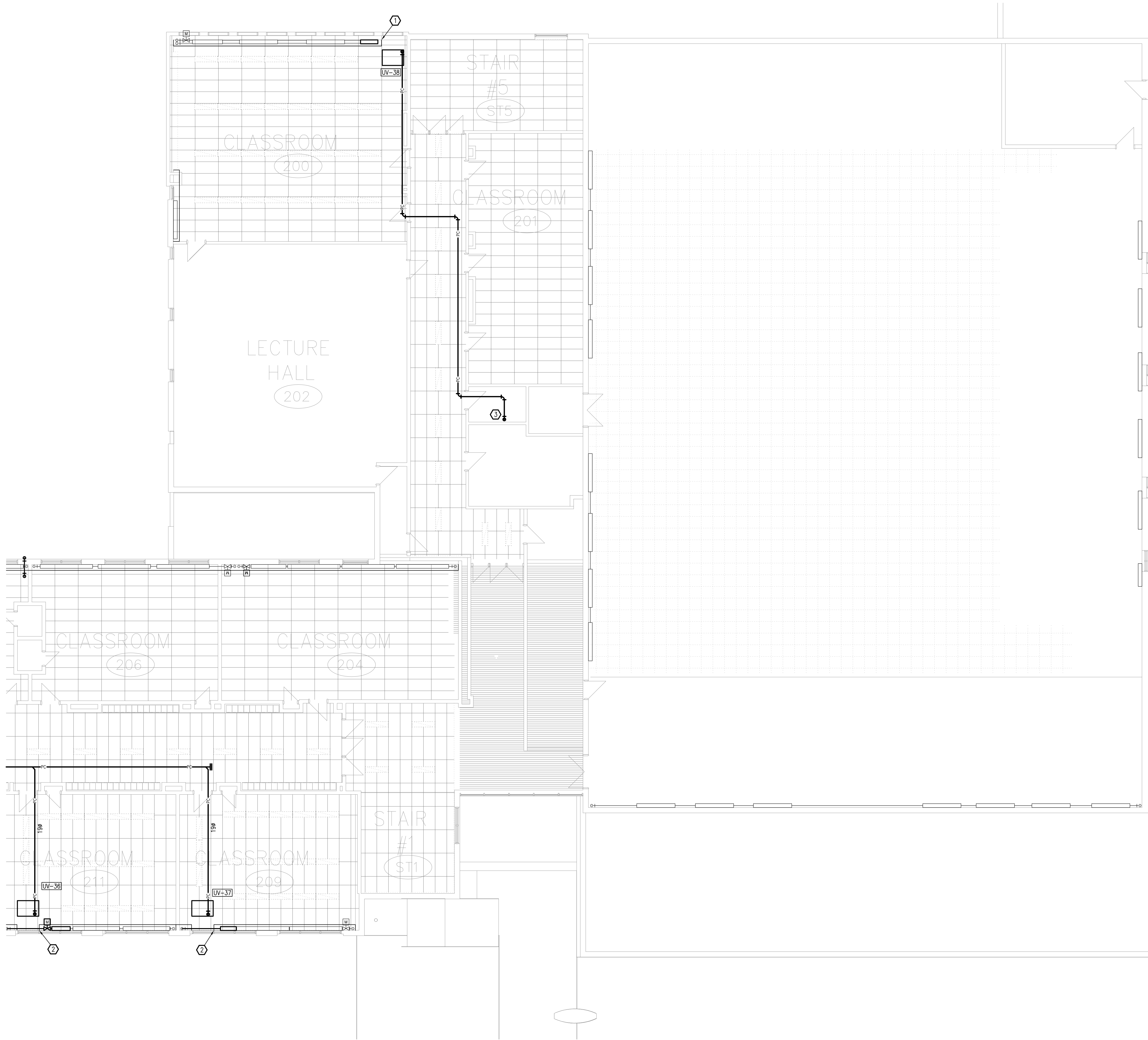


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PROJECT:
TISS – MECHANICAL REPLACEMENT
2510 PARKDALE AVE
BROCKVILLE, ON

DRAWING:
MECHANICAL:
SECOND FLOOR PART 3 –
PLUMBING AND FIRE PROTECTION

	DATE: APRIL 2025
	DESIGNED BY: J.G.
	DRAWN BY: J.G.
	CHECKED BY: S.C.
SCALE: 1:100	
No. DWGS. 52	DRAWING No.
PROJECT No. 25020	M108



DRAWING NOTES

- ① REINSTALL FINNED TUBE ELEMENTS AND SUPPORTS, INCLUDING SHORTENING THE FINNED TUBES AS REQUIRED. MODIFY CONVECTOR CASING AND ADD END CAP TO SUIT. REINSTALL VALVES, FITTINGS, VENTS, AND ANY OTHER DEVICES AS REQUIRED IN ACCESSIBLE LOCATION. PROVIDE CASING ACCESS DOORS AS REQUIRED.
- ② REINSTALL FINNED TUBE ELEMENTS AND SUPPORTS AS REQUIRED. DROP PIPES LOWER, THEN OFFSET PIPING BELOW CLASSROOM VENTILATOR AIR EXHAUST/INTAKE PLENUM. ADJUST PIPING TO SUIT. MODIFY OR PROVIDE NEW CONVECTOR CASING END CAP TO SUIT. REINSTALL VALVES, FITTINGS, VENTS, AND ANY OTHER DEVICES AS REQUIRED IN ACCESSIBLE LOCATION. PROVIDE CASING ACCESS DOORS AS REQUIRED.
- ③ DISCHARGE INTO JANITOR SINK.

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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5.	ISSUED FOR TENDER & PERMIT	APR 08/26
4.	ISSUED FOR 99% REVIEW	OCT 9/25
3.	ISSUED FOR 90% REVIEW	AUG 27/25
2.	ISSUED FOR 60% REVIEW	JUN 27/25
1.	ISSUED FOR 30% REVIEW	MAY 02/25
REVISION No.	DESCRIPTION	DATE

McKEE ENGINEERING
R.J. McKEE
ENGINEERING LTD.
1785 Woodward Drive
Ottawa, ON K2C 0P9
CANADA
Tel: (613) 723-9585
Fax: (613) 723-9584
www.mckeeottawa.ca

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

DRAWING:
MECHANICAL:
SECOND FLOOR PART 4 –
PLUMBING AND FIRE PROTECTION



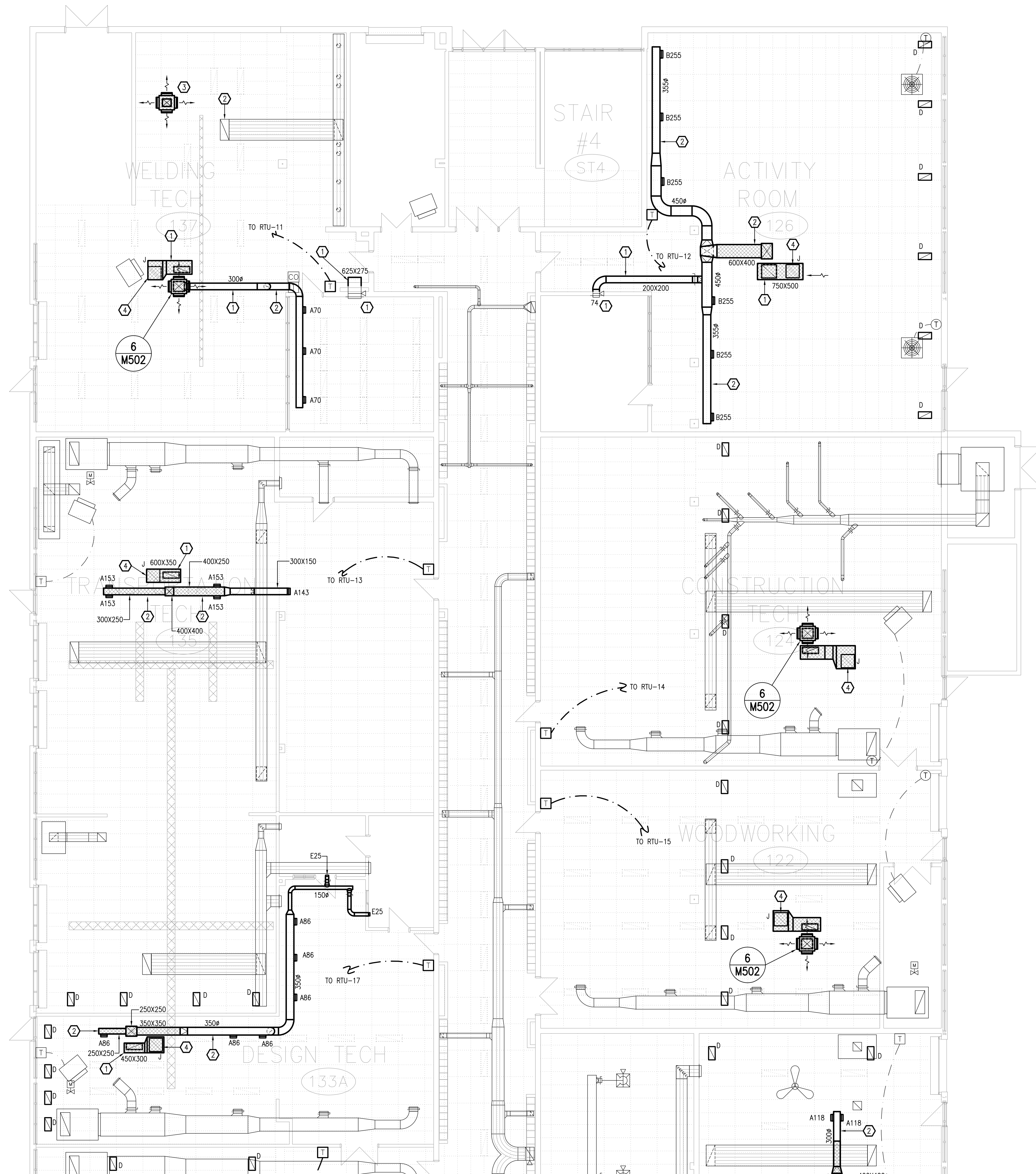
DATE: APRIL 2025
DESIGNED BY: J.G.
DRAWN BY: J.G.
CHECKED BY: S.C.

SCALE: 1:100

No. DWGS. 52
PROJECT No. 25020

DRAWING No.

M109



- DRAWING NOTES**
- 1 ABOVE SUSPENDED CEILING.
 - 2 BELOW SUSPENDED CEILING.
 - 3 SUPPLY AIR PLENUM BOX, PROVIDED BY MAKE-UP AIR UNIT MANUFACTURER, INSTALLED BELOW THE CEILING.
 - 4 CONNECT TO CEILING GRILLE.

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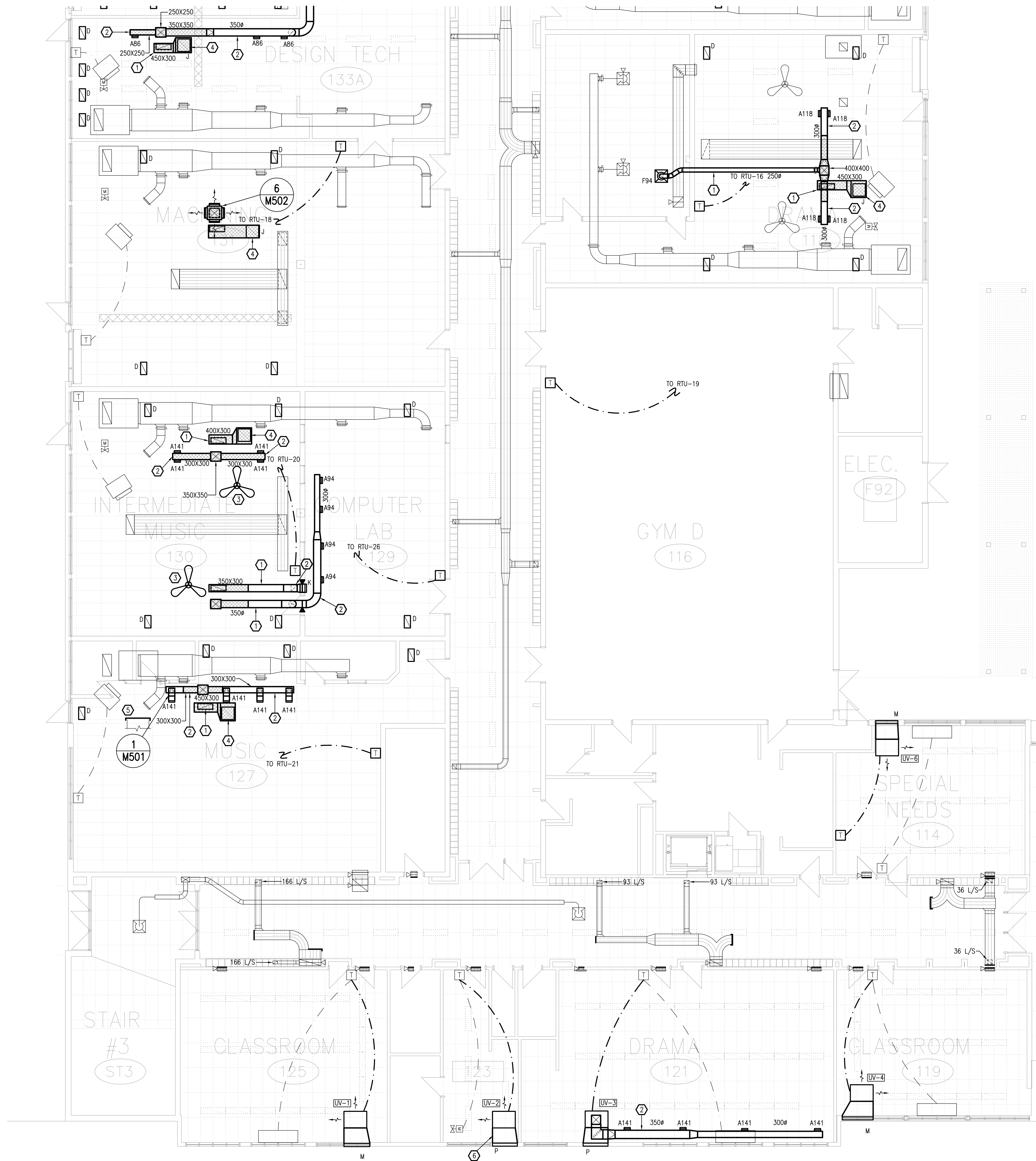
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R.J. McKEE
ENGINEERING LTD.
1785 Woodward Drive
Ottawa, ON K2C 0P9
CANADA
Tel: (613) 723-9585
Fax: (613) 723-9584
www.mckeeottawa.ca

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

DRAWING:
MECHANICAL:
GROUND FLOOR PART 1 – HVAC

	DATE: APRIL 2025
	DESIGNED BY: J.G.
	DRAWN BY: J.G.
	CHECKED BY: S.C.
	SCALE: 1:100
No. DWGS: 52	DRAWING No.
PROJECT No. 25020	M201



- DRAWING NOTES**
- ① ABOVE SUSPENDED CEILING.
 - ② BELOW SUSPENDED CEILING.
 - ③ RELOCATED SUSPENDED CEILING FAN.
 - ④ CONNECT TO CEILING GRILLE.
 - ⑤ CAP EXISTING UNIT VENTILATOR INTAKE DUCTWORK BEFORE WALL.
 - ⑥ INTAKE/EXHAUST LOUVER TO BE GENERALLY INLINE WITH UNIT OPENING.

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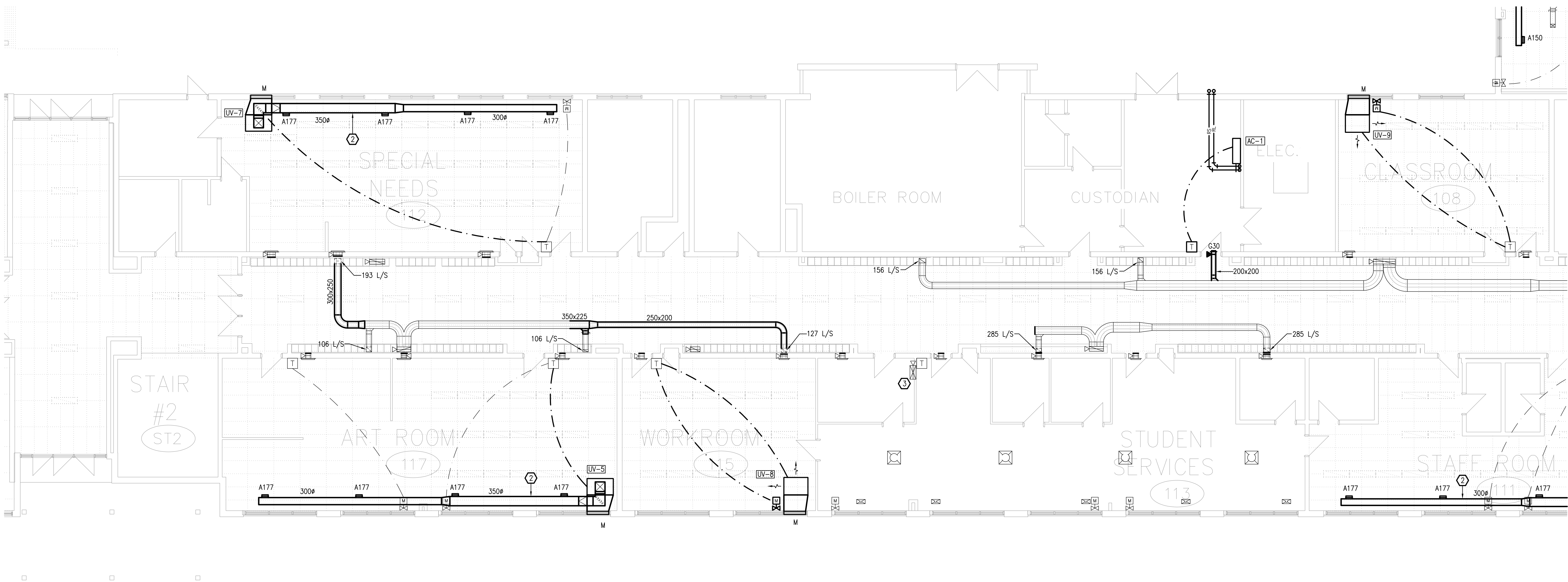
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R.J. McKEE
ENGINEERING LTD.
1785 Woodward Drive
Ottawa, ON K2C 0P9
CANADA
Tel: (613) 723-9585
Fax: (613) 723-9584
www.mckeeottawa.ca

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

DRAWING:
MECHANICAL:
GROUND FLOOR PART 2 – HVAC

	DATE: APRIL 2025
	DESIGNED BY: J.G.
	DRAWN BY: J.G.
	CHECKED BY: S.C.
SCALE: 1:100	
No. DWGS. 52	DRAWING No.
PROJECT No. 25020	M202




- DRAWING NOTES**
- ① NOT USED.
 - ② BELOW SUSPENDED CEILING.
 - ③ SUPPLY AIR DUCTWORK ABOVE DRYWALL CEILING SERVES DIFFUSERS WITHIN ROOM.

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REVISION No.	DESCRIPTION	DATE



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ENGINEERING LTD.
1785 Woodward Drive
Ottawa, ON K2C 0P9
CANADA
Tel: (613) 723-9585
Fax: (613) 723-9584
www.mckeeottawa.ca

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

DRAWING:
MECHANICAL:
GROUND FLOOR PART 3 – HVAC

	DATE: APRIL 2025
	DESIGNED BY: J.G.
	DRAWN BY: J.G.
	CHECKED BY: S.C.
	SCALE: 1:100
No. DWGS. 52	DRAWING No.
PROJECT No. 25020	M203



- DRAWING NOTES**
- 1 NOT USED.
 - 2 BELOW SUSPENDED CEILING.
 - 3 INTAKE/EXHAUST LOUVER TO BE GENERALLY IN LINE WITH UNIT OPENING.
 - 4 PROVIDE CLEAR VENTED PLEXIGLASS PROTECTION CASE.
 - 5 SUPPLY AIR DUCTWORK ABOVE DRYWALL CEILING SERVES DIFFUSERS WITHIN ROOM.
 - 6 EXTEND TRANSFER DUCT TO CEILING GRILLES.
 - 7 RETURN AIR DUCT STATIC PRESSURE SENSOR FOR FAN F-2 CONTROL.

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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1.	ISSUED FOR 30% REVIEW	MAY 02/25

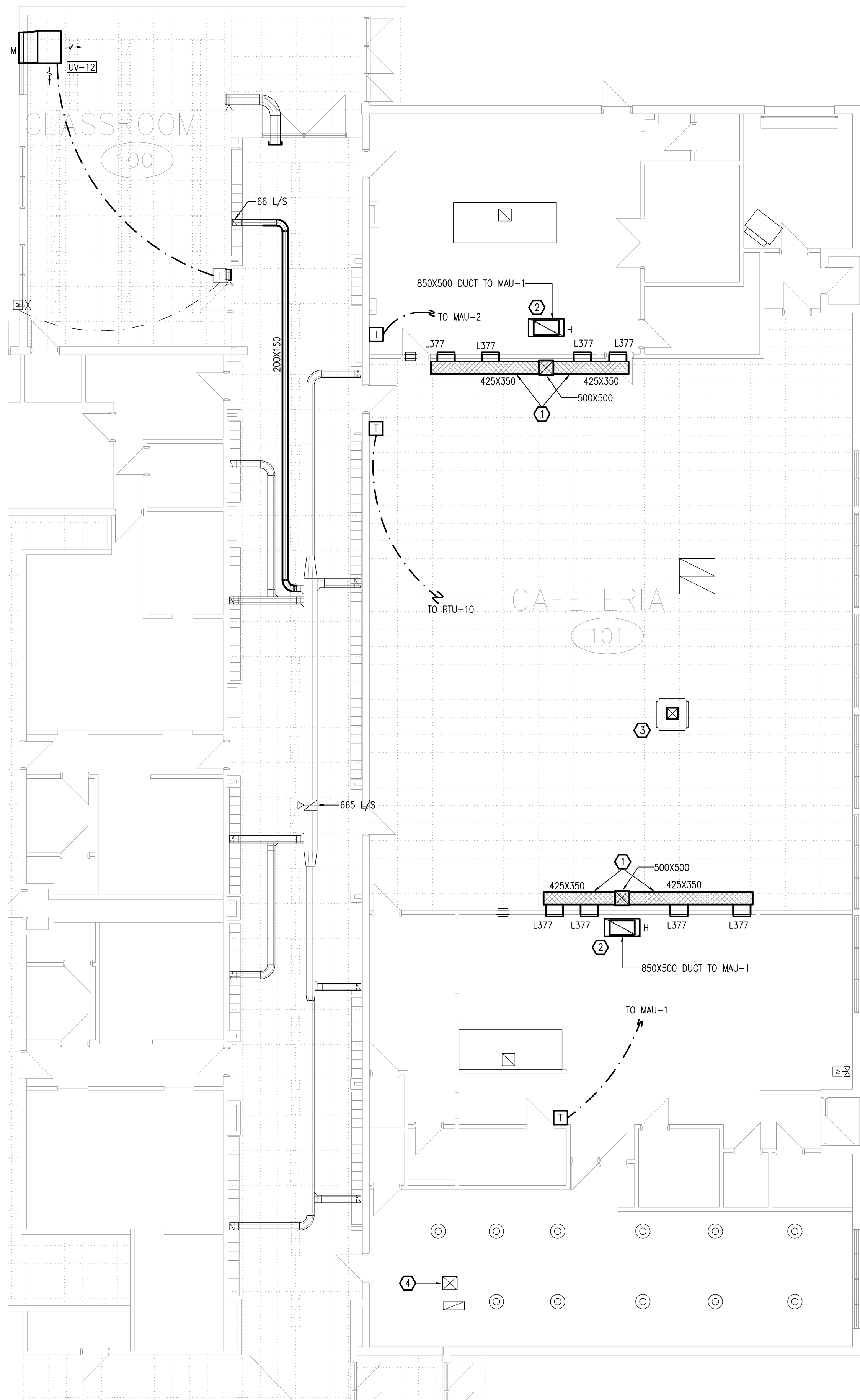
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1785 Woodward Drive
Ottawa, ON K2C 0P9
CANADA
Tel: (613) 723-9585
Fax: (613) 723-9584
www.mckeeottawa.ca

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

DRAWING:
MECHANICAL:
GROUND FLOOR PART 4 - HVAC

	DATE: APRIL 2025
	DESIGNED BY: J.G.
	DRAWN BY: J.G.
	CHECKED BY: S.C.
	SCALE: 1:100
No. DWGS. 52	DRAWING No.
PROJECT No. 25020	M204



- DRAWING NOTES**
1. BELOW SUSPENDED CEILING.
 2. DUCT MAKE UP AIR UNITS RETURN AIR TO EGG CRATE GRILLES.
 3. CONNECT NEW SUPPLY AIR DUCT TO EXISTING SUPPLY AIR PLENUM BOX BELOW CEILING. PROVIDE TRANSITIONAL FITTING AS REQUIRED. ALL NEW DUCTWORK BETWEEN ROOFTOP UNIT AND PLENUM BOX TO HAVE INTERNAL ACOUSTIC LINING.
 4. SUPPLY AIR DUCTWORK ABOVE DRYWALL CEILING SERVES DIFFUSERS WITHIN ROOM.

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R.J. McKEE
ENGINEERING LTD.
1785 Woodward Drive
Ottawa, ON K2C 0P9
CANADA
Tel: (613) 723-9585
Fax: (613) 723-9584
www.mckeeottawa.ca

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

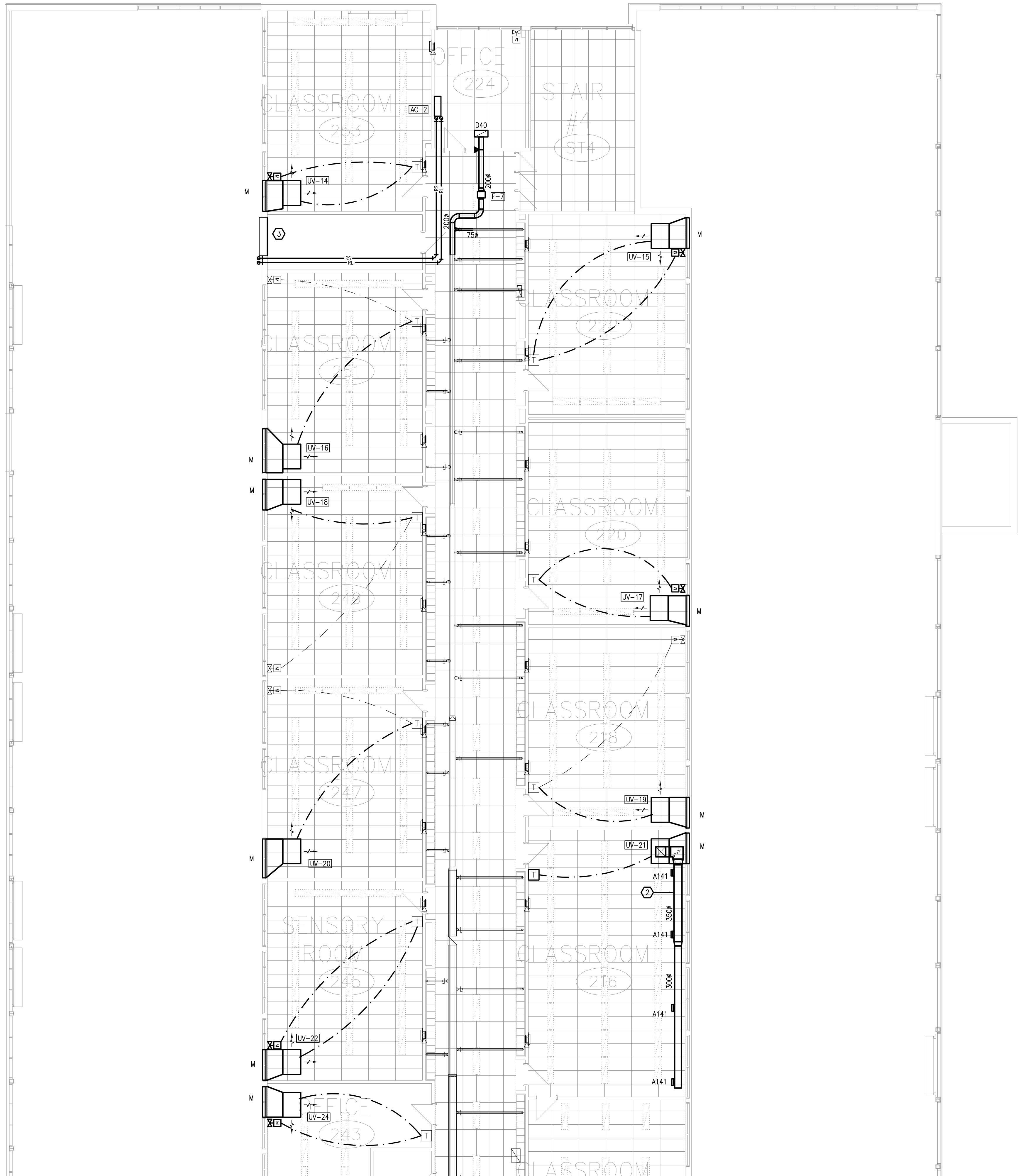
DRAWING:
MECHANICAL:
GROUND FLOOR PART 5 - HVAC



DATE: APRIL 2025
DESIGNED BY: J.G.
DRAWN BY: J.G.
CHECKED BY: S.C.
SCALE: 1:100

No. DWGS: 52
PROJECT No.
25020

DRAWING No.
M205



- DRAWING NOTES
- 1

NOT USED.
- 2

BELOW SUSPENDED CEILING.
- 3

INSULATED BLANK-OFF PANEL BY ARCHITECTURAL SEALED WEATHER TIGHT.

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ENGINEERING

R.J. MCKEE
ENGINEERING LTD.
1785 Woodward Drive
Ottawa, ON K2C 0P9
CANADA
Tel: (613) 723-9585
Fax: (613) 723-9584
www.mckeeottawa.ca

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

DRAWING:
MECHANICAL:
SECOND FLOOR PART 1 – HVAC



DATE: APRIL 2025

DESIGNED BY: J.G.

DRAWN BY: J.G.

CHECKED BY: S.C.

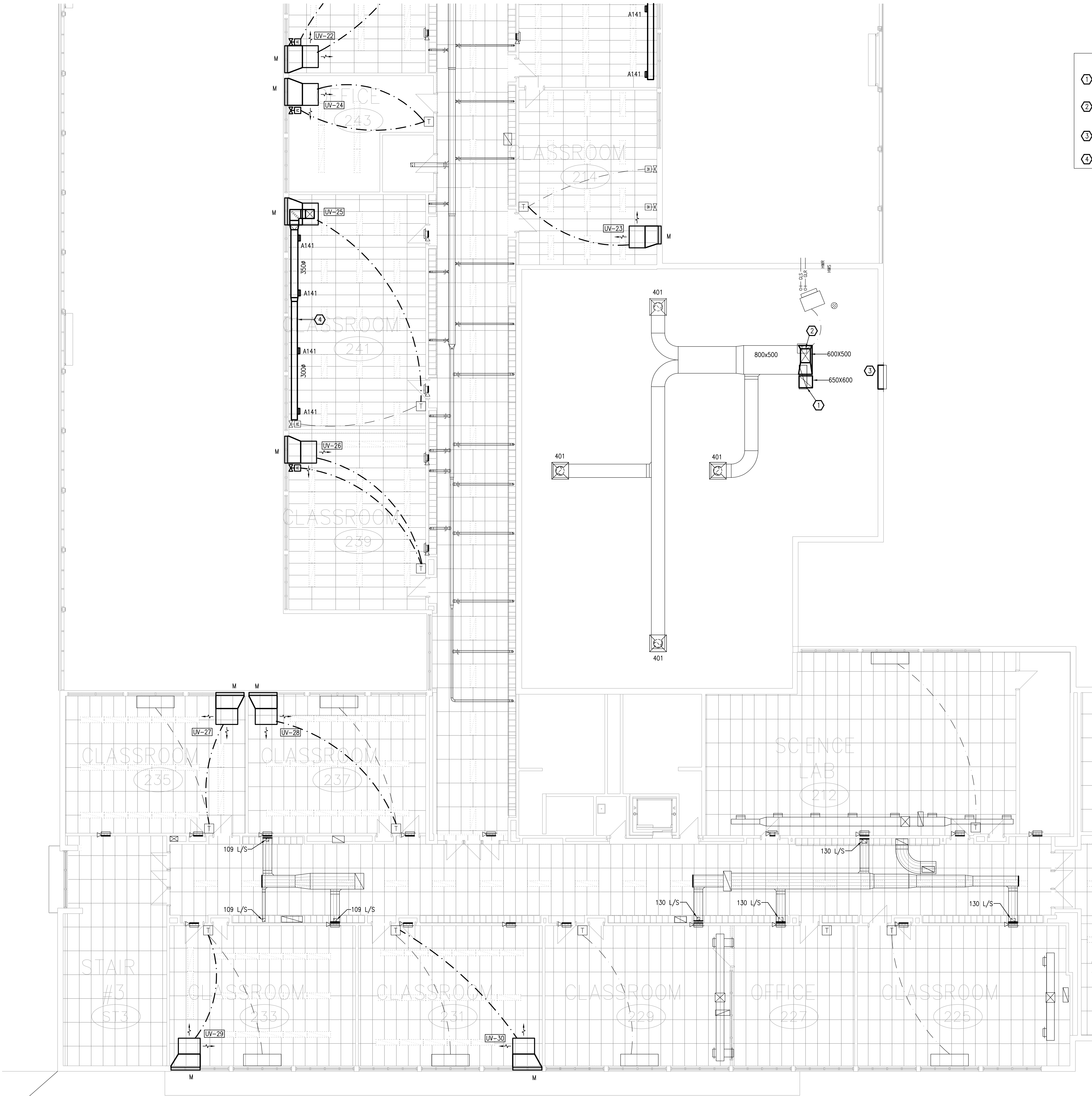
SCALE: 1:100

No. DWGS. 52

PROJECT No. 25020

DRAWING No.

M206



- DRAWING NOTES**
- 1 FROM ROOF PROVIDE TRANSITIONAL FITTING TO CONNECT TO EXISTING RETURN DUCT AT FLOOR LEVEL.
 - 2 FROM ROOF, CONNECT TO EXISTING SUPPLY AIR DUCTWORK WITHIN MEZZANINE, PROVIDE TRANSITIONAL FITTING AS REQUIRED.
 - 3 INSULATED BLANK-OFF PANEL BY ARCHITECTURAL SEALED WEATHER TIGHT.
 - 4 BELOW SUSPENDED CEILING.

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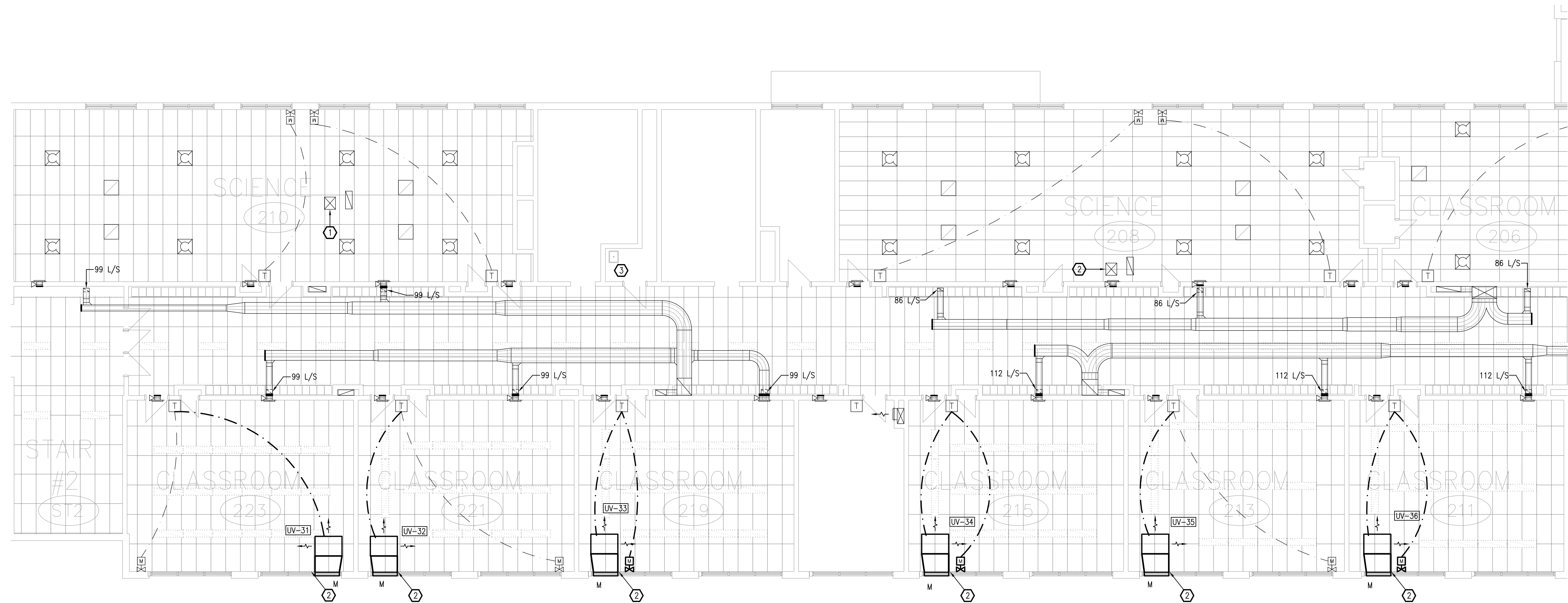
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McKEE ENGINEERING
R.J. McKEE
ENGINEERING LTD.
1785 Woodward Drive
Ottawa, ON K2C 0P9
CANADA
Tel: (613) 723-9585
Fax: (613) 723-9584
www.mckeeottawa.ca

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

DRAWING:
MECHANICAL:
SECOND FLOOR PART 2 – HVAC

	DATE: APRIL 2025
	DESIGNED BY: J.G.
	DRAWN BY: J.G.
	CHECKED BY: S.C.
SCALE: 1:100	DRAWING No.
No. DWGS: 52	PROJECT No.
25020	M207




- DRAWING NOTES**
- ① SUPPLY AIR DUCTWORK ABOVE DRYWALL CEILING SERVING DIFFUSERS IN ROOM 210.
 - ② SUPPLY AIR DUCTWORK ABOVE DRYWALL CEILING SERVING DIFFUSERS IN ROOM 208.

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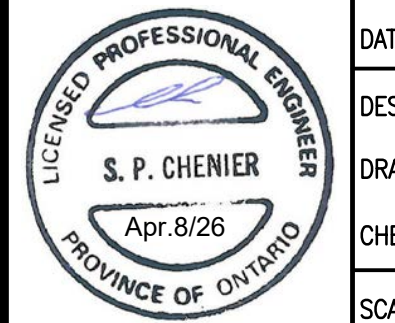


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PROJECT:
TISS – MECHANICAL REPLACEMENT
2510 PARKDALE AVE
BROCKVILLE, ON

DRAWING:
MECHANICAL:
SECOND FLOOR PART 3 – HVAC



S. P. CHENIER
Apr 8/26
PROVINCE OF ONTARIO

DATE: APRIL 2025

DESIGNED BY: J.G.

DRAWN BY: J.G.

CHECKED BY: S.C.

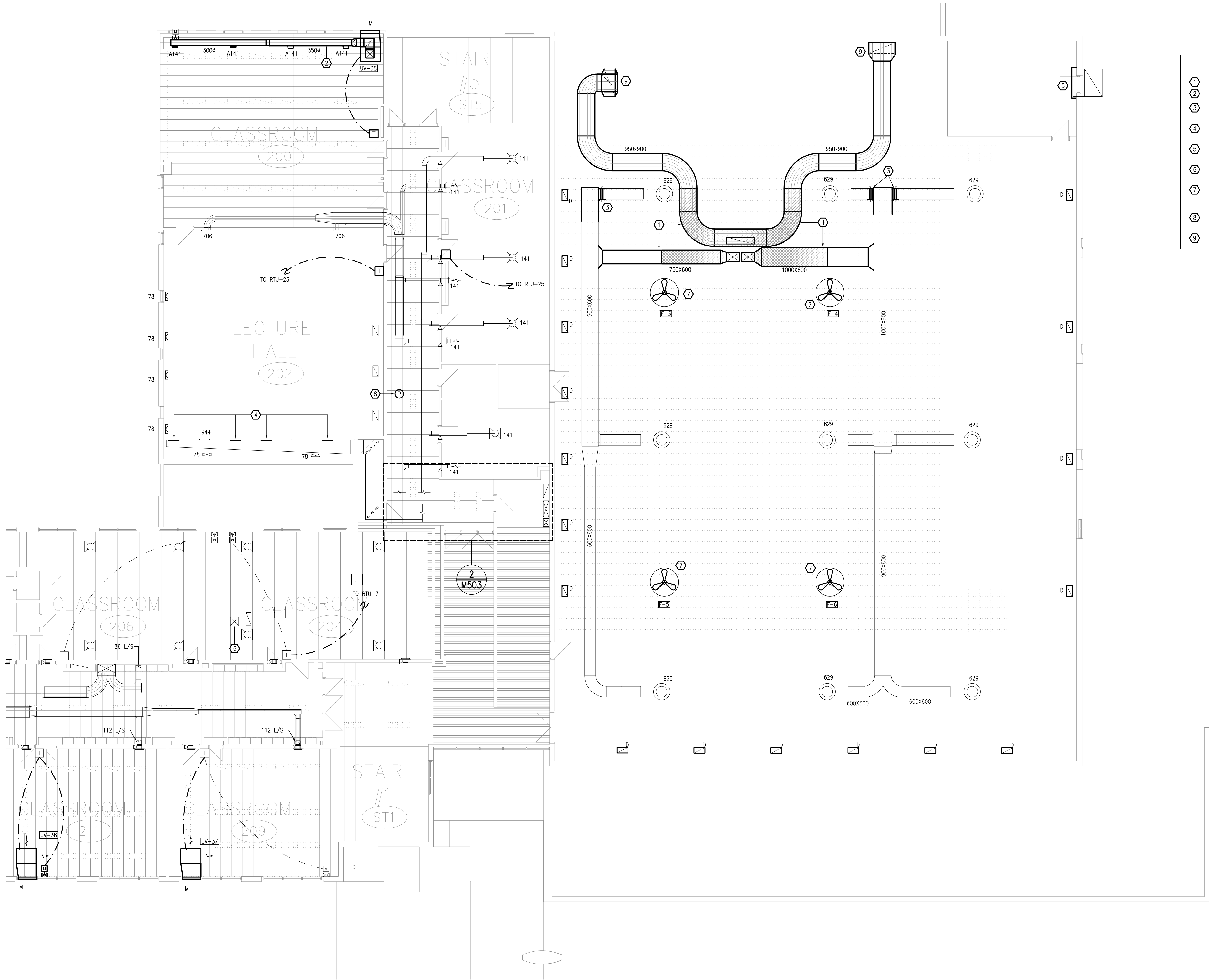
SCALE: 1:100

No. DWGS. 52

PROJECT No. 25020

DRAWING No.

M208



- DRAWING NOTES**
- 1 ABOVE SUSPENDED CEILING.
 - 2 BELOW SUSPENDED CEILING.
 - 3 PROVIDE NEW TAKE-OFF AND RECONNECT TO EXISTING DUCTWORK.
 - 4 PROVIDE SHEET METAL TO BLOCK OPENING. PAINT TO MATCH EXISTING.
 - 5 INSULATED BLANK-OFF PANEL BY ARCHITECTURAL SEALED WEATHER TIGHT.
 - 6 SUPPLY AIR DUCTWORK ABOVE DRYWALL CEILING SERVING DIFFUSERS IN ROOMS 204 AND 206.
 - 7 PROVIDE UNISTRUT SUPPORTS AS REQUIRED FROM STRUCTURAL STEEL ABOVE CEILING FOR FAN AND PROTECTION CAGE INSTALLATION.
 - 8 RETURN AIR DUCT STATIC PRESSURE SENSOR FOR FAN F-1 CONTROL.
 - 9 RECONNECT TO EXISTING RETURN AIR DUCT DROPS.

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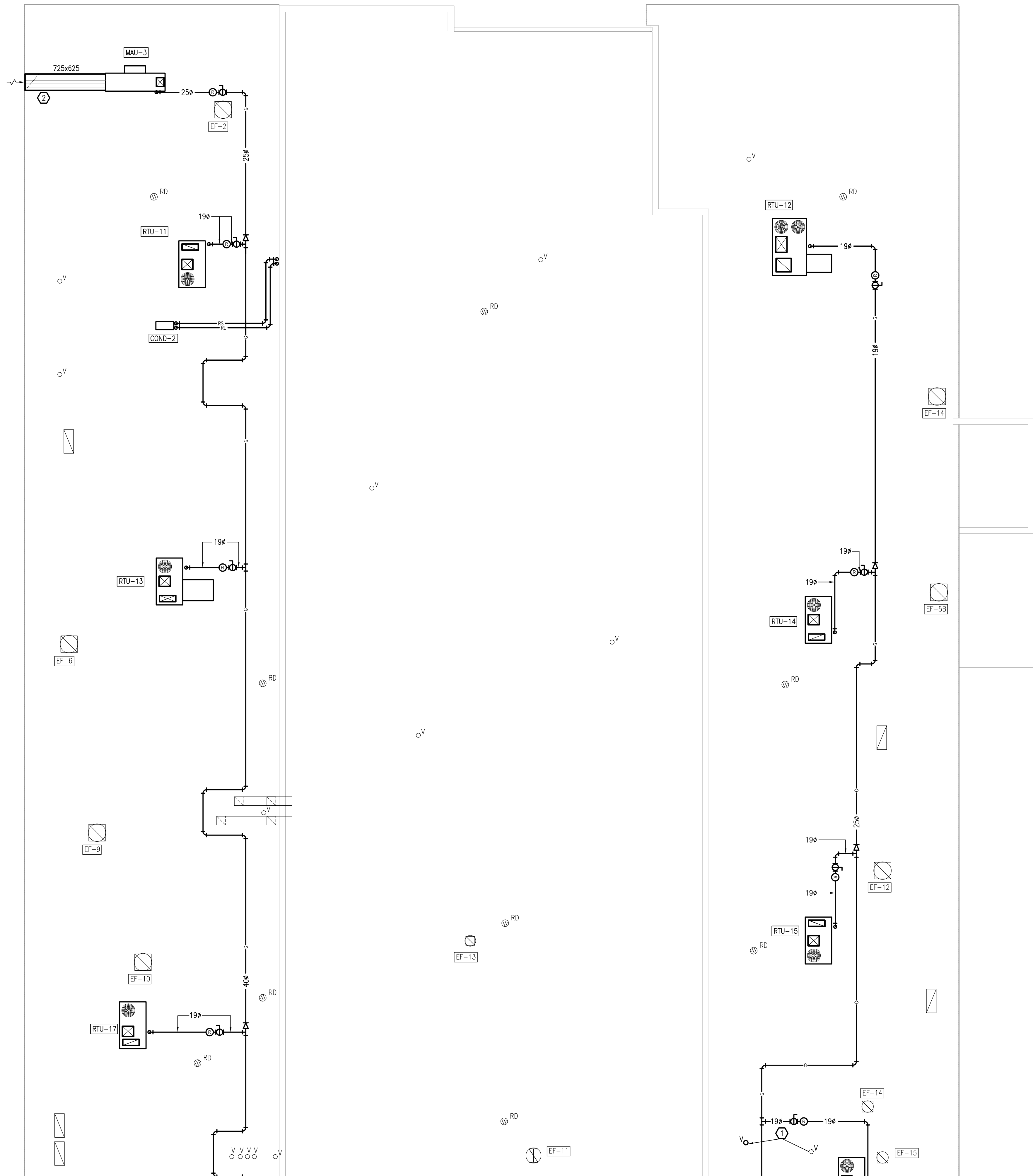
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REVISION No.	DESCRIPTION	DATE

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R.J. McKEE
ENGINEERING LTD.
1785 Woodward Drive
Ottawa, ON K2C 0P9
CANADA
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Fax: (613) 723-9584
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PROJECT:
TISS - MECHANICAL REPLACEMENT
2510 PARKDALE AVE
BROCKVILLE, ON

DRAWING:
MECHANICAL:
SECOND FLOOR PART 4 - HVAC

	DATE: APRIL 2025
	DESIGNED BY: J.G.
	DRAWN BY: J.G.
	CHECKED BY: S.C.
	SCALE: 1:100
No. DWGS. 52	DRAWING No.
PROJECT No. 25020	M209



- GENERAL NOTES**
- NEW ROOF MOUNTED EQUIPMENT SHALL BE 2.5 METERS FROM ROOF DRAINS.
- DRAWING NOTES**
- RELOCATE SANITARY VENT PIPE TO BE 3.5 METERS FROM ROOFTOP UNIT AIR INTAKE. EXTEND PIPING IN CEILING SPACE BELOW AS REQUIRED.
 - EXTEND INTAKE DUCT TO EDGE OF ROOF WITH 45' DOWN ELBOW.

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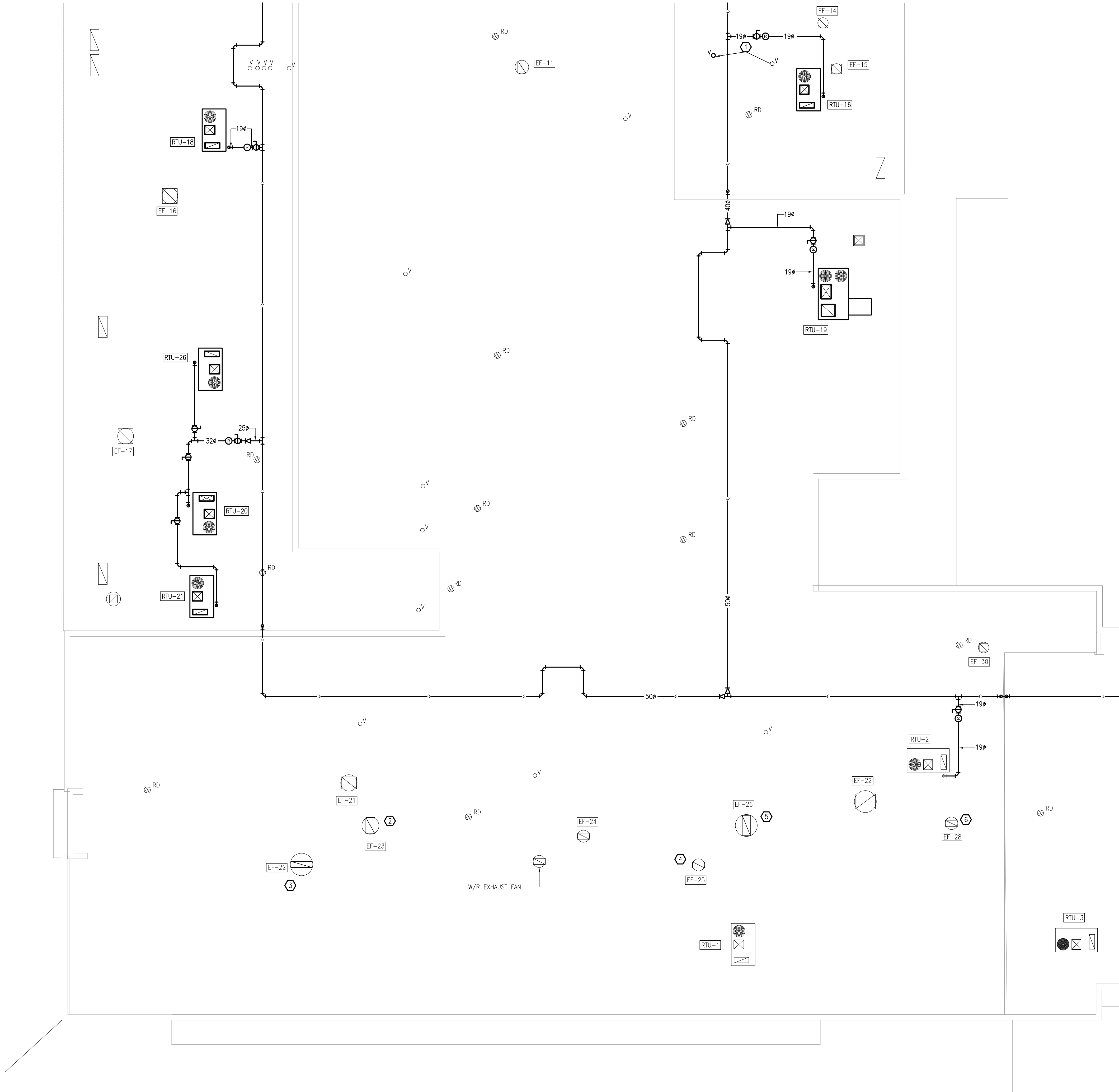
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ENGINEERING LTD.
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CANADA
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PROJECT:
TISS - MECHANICAL REPLACEMENT
2510 PARKDALE AVE
BROCKVILLE, ON

DRAWING:
MECHANICAL:
ROOF PLAN PART 1 - NEW

	DATE: APRIL 2025
	DESIGNED BY: J.G.
	DRAWN BY: J.G.
	CHECKED BY: S.C.
SCALE: 1:100	
No. DWGS: 52	DRAWING No.
PROJECT No. 25020	M301



GENERAL NOTES

1. NEW ROOF MOUNTED EQUIPMENT SHALL BE A MINIMUM OF 2.5 METERS FROM ROOF DRAINS.

DRAWING NOTES

- ① RELOCATE SANITARY VENT PIPE TO BE 3.5 METERS FROM ROOFTOP UNIT AIR INTAKE, EXTEND PIPING IN CEILING SPACE BELOW AS REQUIRED.
- ② REPLACE FAN PULLEYS AND BELTS AS REQUIRED TO REDUCE AIRFLOW TO 327 L/S.
- ③ REPLACE FAN PULLEYS AND BELTS AS REQUIRED TO REDUCE AIRFLOW TO 332 L/S.
- ④ REPLACE FAN PULLEYS AND BELTS AS REQUIRED TO REDUCE AIRFLOW TO 186 L/S.
- ⑤ REPLACE FAN PULLEYS AND BELTS AS REQUIRED TO REDUCE AIRFLOW TO 520 L/S.
- ⑥ REPLACE FAN PULLEYS AND BELTS AS REQUIRED TO REDUCE AIRFLOW TO 72 L/S.

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

DRAWING:
MECHANICAL:
ROOF PLAN PART 2 – NEW



DATE: APRIL 2025

DESIGNED BY: J.G.

DRAWN BY: J.G.

CHECKED BY: S.C.

SCALE: 1:100

No. DWGS: 52

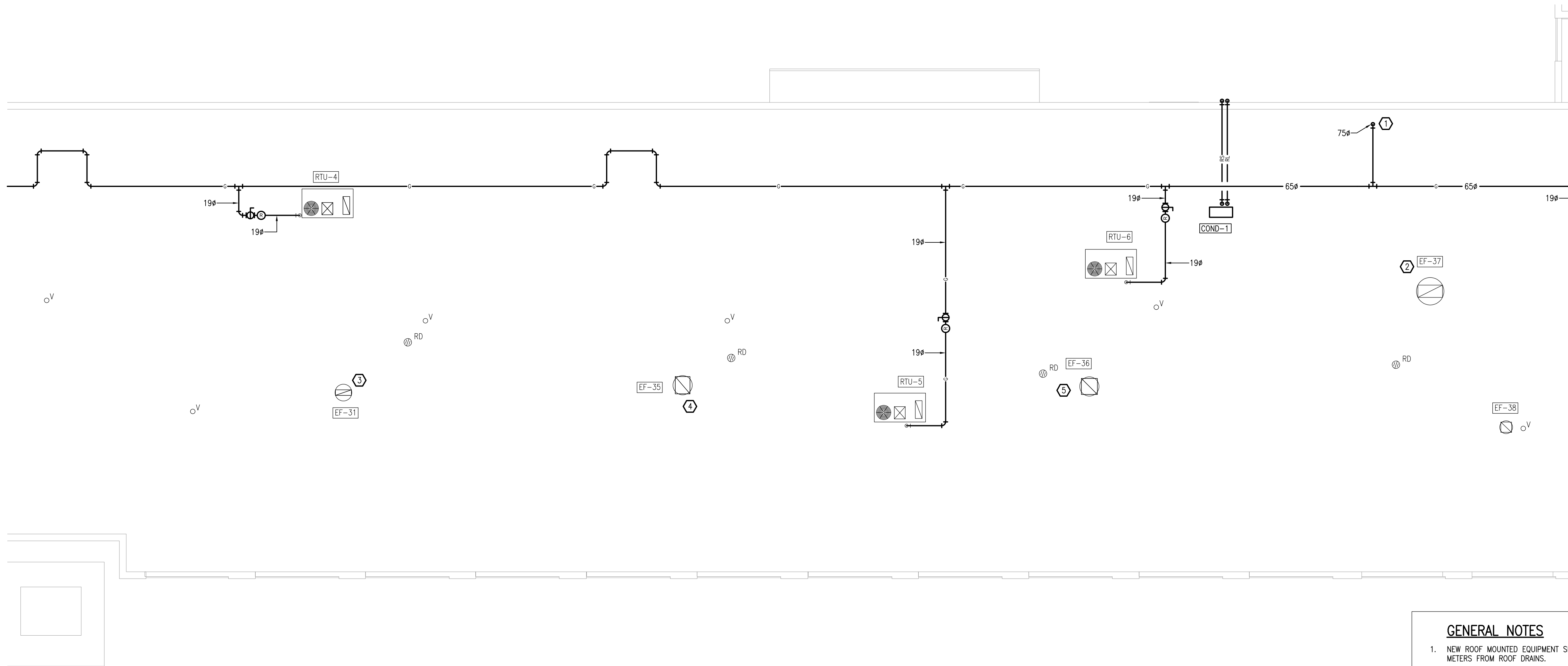
PROJECT No.

25020

DRAWING No.

PROJECT No.

M302



GENERAL NOTES

1. NEW ROOF MOUNTED EQUIPMENT SHALL BE 2.5 METERS FROM ROOF DRAINS.

DRAWING NOTES

- ① DOWN TO FIRST FLOOR.
- ② REPLACE FAN PULLEYS AND BELTS AS REQUIRED TO REDUCE AIRFLOW TO 756 L/S.
- ③ REPLACE FAN PULLEYS AND BELTS AS REQUIRED TO REDUCE AIRFLOW TO 523 L/S.
- ④ REPLACE FAN PULLEYS AND BELTS AS REQUIRED TO REDUCE AIRFLOW TO 459 L/S.
- ⑤ REPLACE FAN PULLEYS AND BELTS AS REQUIRED TO REDUCE AIRFLOW TO 1018 L/S.

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.

THE PAPER COPY OF THE DRAWINGS ISSUED FOR BUILDING PERMIT AND/OR TENDER WILL TAKE PRECEDENCE OVER ELECTRONIC COPIES.

5.	ISSUED FOR TENDER & PERMIT	APR 08/26
4.	ISSUED FOR 99% REVIEW	OCT 9/25
3.	ISSUED FOR 90% REVIEW	AUG 27/25
2.	ISSUED FOR 60% REVIEW	JUN 27/25
1.	ISSUED FOR 30% REVIEW	MAY 02/25
REVISION No.	DESCRIPTION	DATE

McKEE ENGINEERING
R.J. McKEE
ENGINEERING LTD.
1785 Woodward Drive
Ottawa, ON K2C 0P9
CANADA
Tel: (613) 723-9585
Fax: (613) 723-9584
www.mckeeottawa.ca

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

DRAWING:
MECHANICAL:
ROOF PLAN PART 3 – NEW

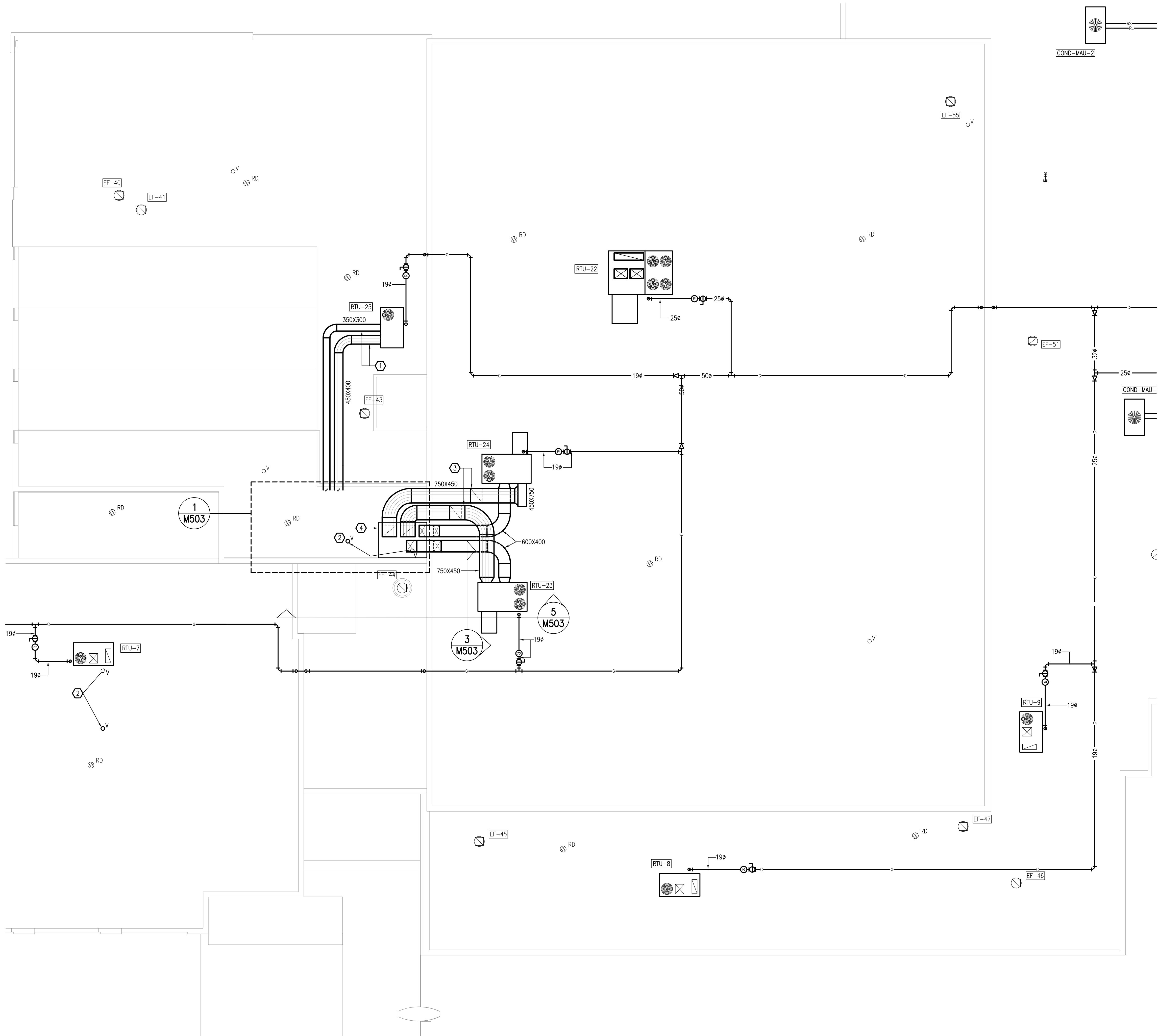


DATE: APRIL 2025
DESIGNED BY: J.G.
DRAWN BY: J.G.
CHECKED BY: S.C.

SCALE: 1:100

No. DWGS. 52
PROJECT No. 25020

DRAWING No. M303



GENERAL NOTES

1. NEW ROOF MOUNTED EQUIPMENT SHALL BE 2.5 METERS FROM ROOF DRAINS.

DRAWING NOTES

1. DUCTWORK ON ROOF.
2. RELOCATE SANITARY VENT PIPE TO BE 3.5 METERS FROM ROOFTOP UNIT AIR INTAKE. EXTEND PIPING IN CEILING SPACE BELOW AS REQUIRED.
3. SLOPE DOWN.
4. NEW ROOF CURB. REFER TO ARCHITECTURAL DRAWINGS. DUCTWORK TO PENETRATE SIDE OF CURB, MINIMUM 300mm ABOVE ROOF. SEAL WEATHER TIGHT.

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Ottawa, ON K2C 0P9
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Tel: (613) 723-9585
Fax: (613) 723-9584
www.mckeeottawa.ca

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

DRAWING:
MECHANICAL:
ROOF PLAN PART 4 - NEW



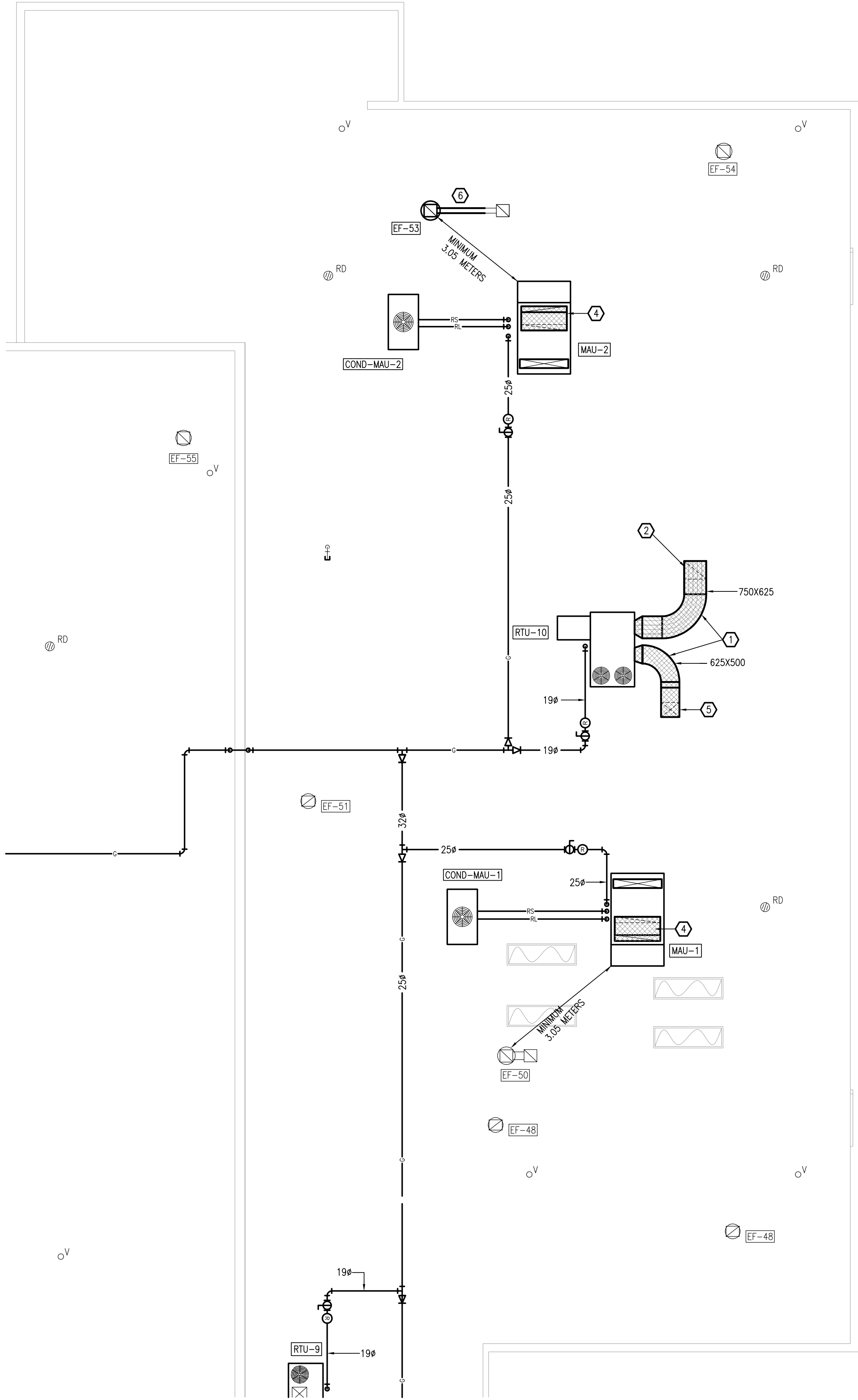
DATE: APRIL 2025
DESIGNED BY: J.G.
DRAWN BY: J.G.
CHECKED BY: S.C.

SCALE: 1:100

No. DWGS: 52
PROJECT No.
25020

DRAWING No.

M304



GENERAL NOTES

1. NEW ROOF MOUNTED EQUIPMENT SHALL BE 2.5 METERS FROM ROOF DRAINS.

DRAWING NOTES

1. DUCTWORK ON ROOF.
2. ELBOW INTO EXISTING OPENING AND CONNECT INTO EXISTING DUCT TO RETURN AIR GRILLES IN CAFETERIA.
3. REPLACE FAN PULLEYS AND BELTS AS REQUIRED TO REDUCE AIRFLOW TO 665 L/S.
4. OFFSET DUCT WITHIN ROOF CURB TO CONNECT TO EXISTING DUCT. PROVIDE INTERNAL ACOUSTIC LINING.
5. SUPPLY AIR DUCTWORK TO CONNECT INTO EXISTING SUPPLY AIR DUCT THROUGH ROOF. PROVIDE TRANSITIONAL FITTING TO CONNECT TO EXISTING DUCT.
6. EXTEND KITCHEN HOOD DUCTWORK PER NFPA 96. PROVIDE SUPPORTS FROM ROOF AS REQUIRED, INCLUDING NEW SLEEPERS.

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

DRAWING:
MECHANICAL:
ROOF PLAN PART 5 – NEW



DATE: APRIL 2025

DESIGNED BY: J.G.

DRAWN BY: J.G.

CHECKED BY: S.C.

SCALE: 1:100

No. DWGS. 52

PROJECT No.
25020

DRAWING No.

M305

GRILLE & DIFFUSER SCHEDULE

REF.	FUNCTION	THROW DIRECTION	FRAME OR BORDER TYPE	NECK SIZE	COLOR	BALANCING DAMPER	REMARKS
A	SUPPLY	2-WAY	DUCTED	N/A	WHITE	IN BRANCH	EQUAL TO NAILOR MODEL SERIES 51DH, 304X152
B	SUPPLY	2-WAY	DUCTED	N/A	WHITE	IN BRANCH	EQUAL TO NAILOR MODEL SERIES 51DH, 355X254
D	RETURN	N/A	T-BAR	N/A	WHITE	NONE	EQUAL TO NAILOR MODEL SERIES 51EC, 609X304
E	SUPPLY	2-WAY	DUCTED	N/A	WHITE	IN BRANCH	EQUAL TO NAILOR MODEL SERIES 51DH, 152X152
F	SUPPLY	4-WAY	T-BAR	250ø	WHITE	IN BRANCH	EQUAL TO NAILOR MODEL SERIES 4020, 609X609
G	RETURN	N/A	T-BAR	N/A	WHITE	NONE	EQUAL TO NAILOR MODEL SERIES 5145H, 203X203
H	RETURN	N/A	T-BAR	N/A	WHITE	NONE	EQUAL TO NAILOR MODEL SERIES 51EC, 1219X609
J	RETURN	N/A	T-BAR	N/A	WHITE	NONE	EQUAL TO NAILOR MODEL SERIES 51EC, 609X609
L	SUPPLY	2-WAY	DRYWALL/DUCTED	750X350	WHITE	IN BRANCH	EQUAL TO NAILOR MODEL SERIES 51DH, 600X350
M	NTAKE/EXHAUST	N/A	FLANGED	N/A	GF209**	NONE	EQUAL TO AIROLITE MODEL K609HP, 2060X2150*
P	NTAKE/EXHAUST	N/A	FLANGED	N/A	GF209**	NONE	EQUAL TO AIROLITE MODEL K609HP, 1200X1200

*MEASURE LOUVER ON SITE PRIOR TO ORDERING TO FIT WITHIN WINDOW MULLIONS. COORDINATE WITH ARCHITECTURAL DRAWINGS.
**COORDINATE WITH ARCHITECT PRIOR TO ORDERING

AIR CONDITIONING UNIT SCHEDULE

(BASED ON 35°C AIR ON CONDENSER)

REF.	COOLING CAP.		E.A.T.		ELEC.			REMARKS
	SENSIBLE KW	TOTAL KW	DB °C	WB °C	VOLT	PH.	MCA	
AC-1/COND-1	3.95	7.03	22	20	208	1	19	EQUAL TO MITSUBISHI MODEL PKA-A24KA7 COMPLETE WITH INTERNAL CONDENSATE PUMP AND REMOTE OUTDOOR CONDENSER (COND-2) MODEL PU1-A24NH47.
AC-2/COND-2	2.12	3.52	22	20	208	1	11	EQUAL TO MITSUBISHI MODEL PKA-A12LA1-TH COMPLETE WITH INTERNAL CONDENSATE PUMP AND REMOTE OUTDOOR CONDENSER (COND-3) MODEL PU1-A12NKA7.

NEW FAN SCHEDULE

REF.	FUNCTION	LOCATION	CAPACITY		RPM	ELECTRICAL		REMARKS
			FLOW L/S	SP Pa		MAX WATTS	PH.	
F-1	RETURN AIR	MECHANICAL ROOM	1982	249	1460	3 HP	208	3 EQUAL TO PENN BARRY MODEL SQX182.
F-2	RETURN AIR	MECHANICAL ROOM	1416	249	1268	2 HP	208	3 EQUAL TO PENN BARRY MODEL SQX182.
F-3	DESTRATIFICATION FAN	GYM A/B CEILING	4530	N/A	310	37	120	1 EQUAL TO CANARM CP-56 WITH FAN GUARD.
F-4	DESTRATIFICATION FAN	GYM A/B CEILING	4530	N/A	310	37	120	1 EQUAL TO CANARM CP-56 WITH FAN GUARD.
F-5	DESTRATIFICATION FAN	GYM A/B CEILING	4530	N/A	310	37	120	1 EQUAL TO CANARM CP-56 WITH FAN GUARD.
F-6	DESTRATIFICATION FAN	GYM A/B CEILING	4530	N/A	310	37	120	1 EQUAL TO CANARM CP-56 WITH FAN GUARD.
F-7	TRANSFER FAN	2ND FLOOR CORRIDOR	40	62	1050	75	120	1 EQUAL TO PENN BARRY ZEPHYR MODEL Z85(TDA).

OUTDOOR MAKE UP AIR UNIT SCHEDULE

COOLING PERFORMANCE BASED ON 35°C OUTDOOR AIR TEMPERATURE

REF.	SUPPLY FAN			SUMMER				WINTER				MAU ELEC.				CONDENSER ELEC.				REMARKS
	FLOW L/S	ESP. Pa	HP	TOTAL CAPACITY (kW)	SENSIBLE CAPACITY (kW)	OUTDOOR AIR		TYPE	INPUT kW	OUTDOOR AIR		VOLT	ø	MCA	MOCP	VOLT	ø	MCA	MOCP	
						E.A.T. (°C)	L.A.T. (°C)			E.A.T. (°C)	L.A.T. (°C)									
						(DB/WB)	(DB/WB)			(DB)	(DB)									
MAU-1	1508	187	3	29.3	21.4	27.8/20	16.1/14.4	GAS	131.9	-25	30	208	3	20.5	30	208	3	38.9	45	EQUAL TO ENGINEERED AIR MODEL DJE60/C/O COMPLETE WITH REMOTE CONDENSER (COND-MAU-1) MODEL CU83/O.
MAU-2	1508	187	3	29.3	21.4	27.8/20	16.1/14.4	GAS	131.9	-25	30	208	3	20.5	30	208	3	38.9	45	EQUAL TO ENGINEERED AIR MODEL DJE60/C/O COMPLETE WITH REMOTE CONDENSER (COND-MAU-2) MODEL CU83/O.
MAU-3	1652	124	2	N/A	N/A	N/A	N/A	GAS	121	-25	28.5	208	3	10.8	15	N/A	N/A	N/A	N/A	EQUAL TO ENGINEERED AIR MODEL HE-40 C/W DISCHARGE HEAD

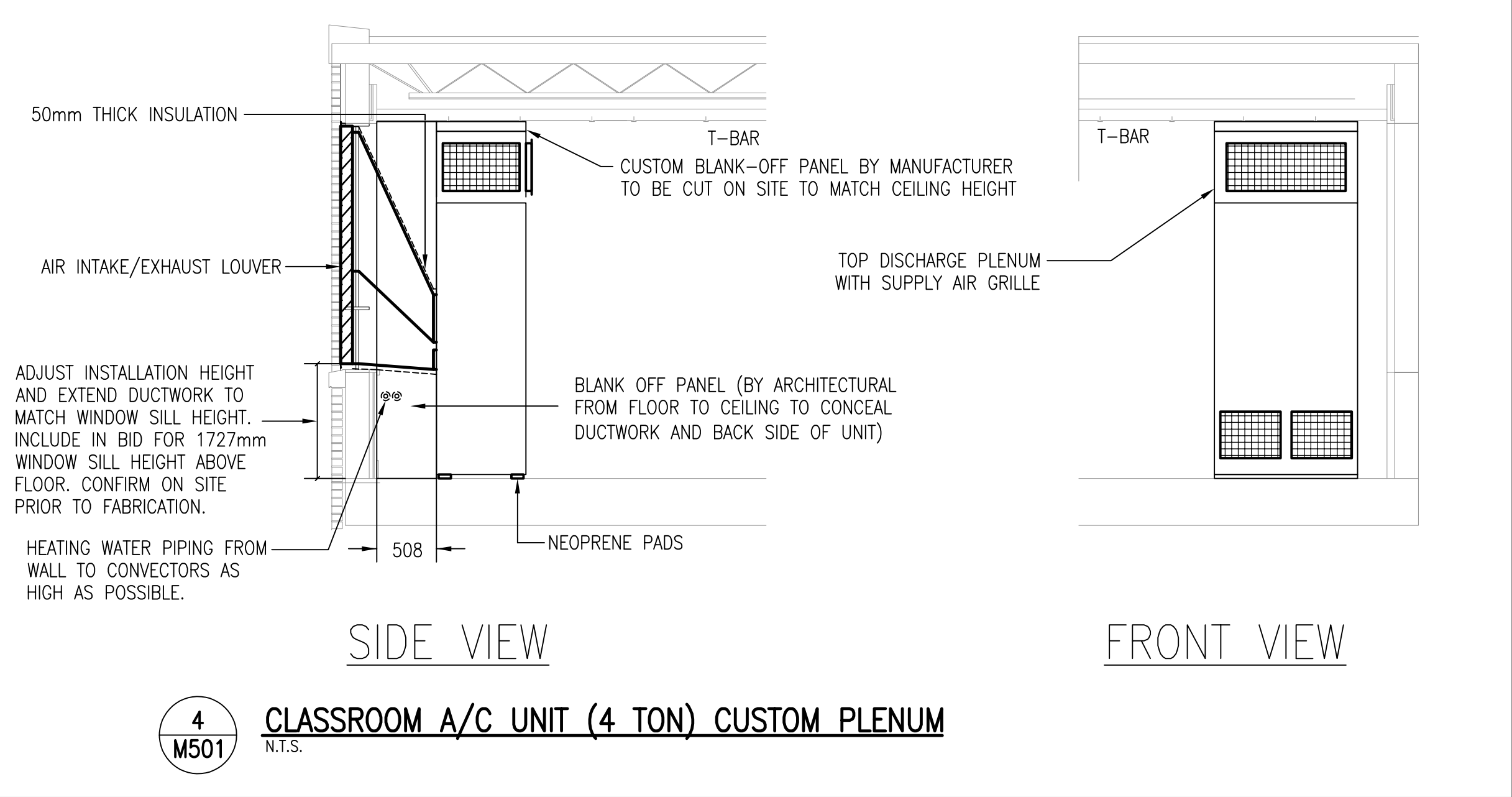
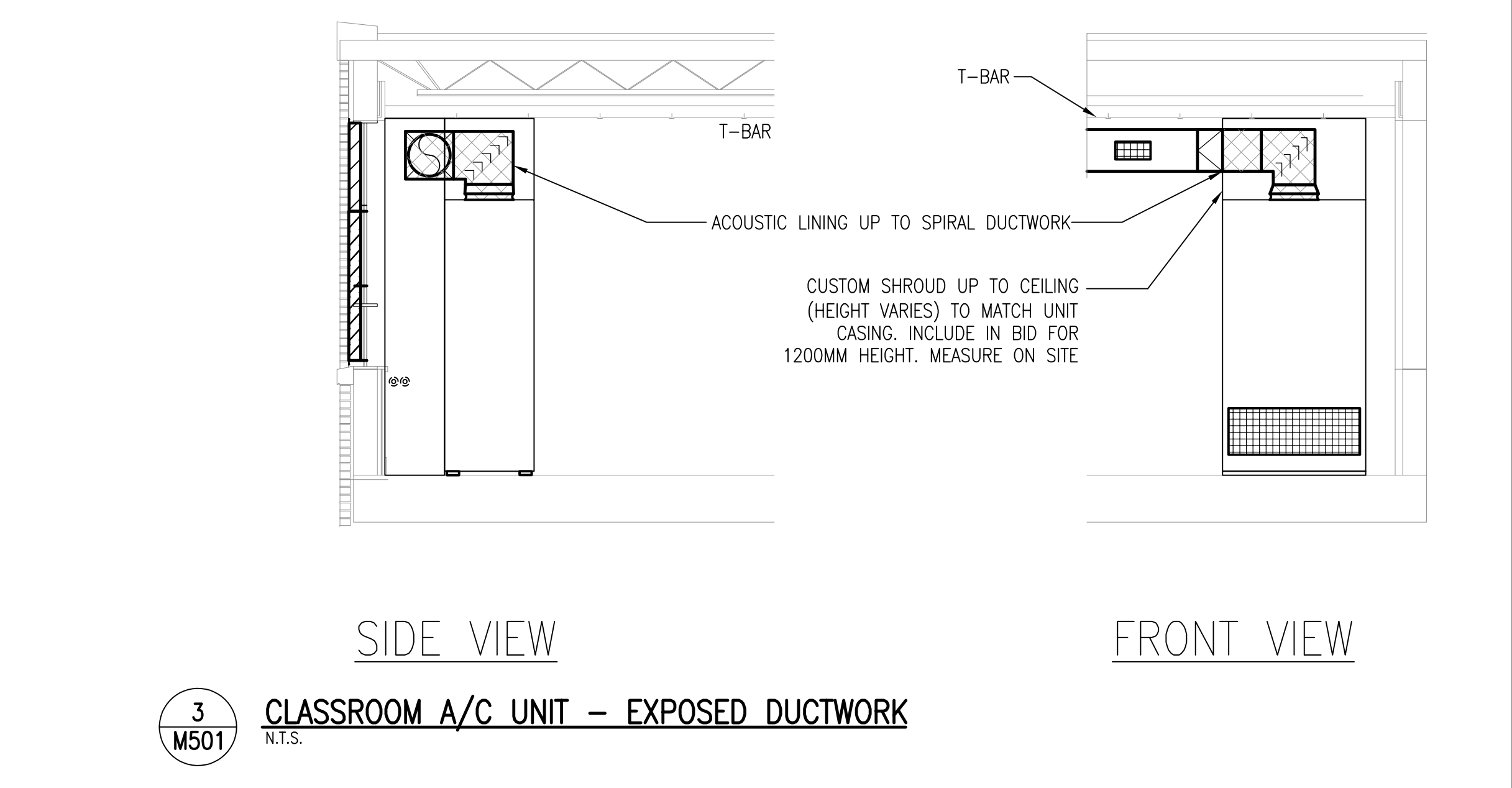
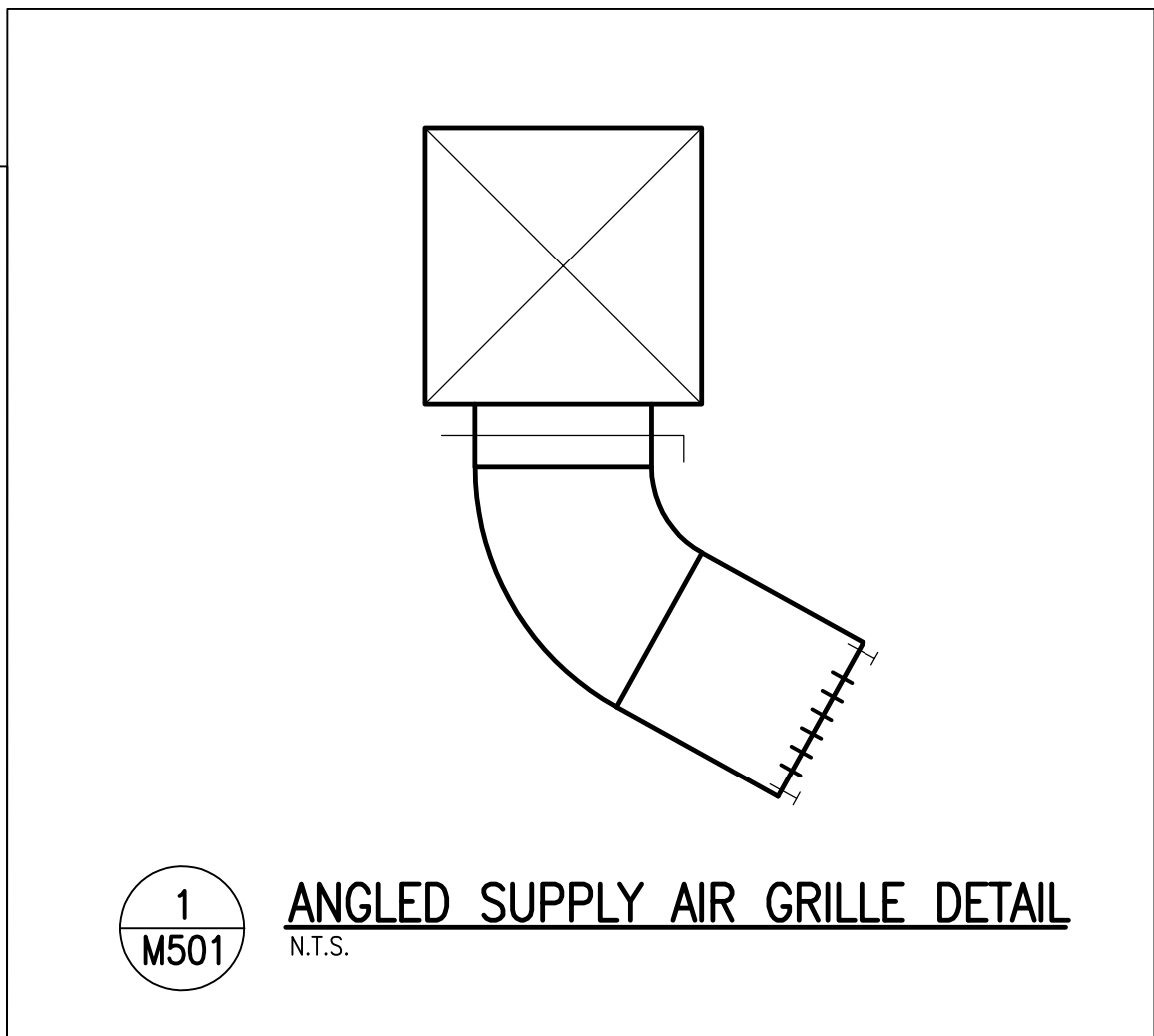
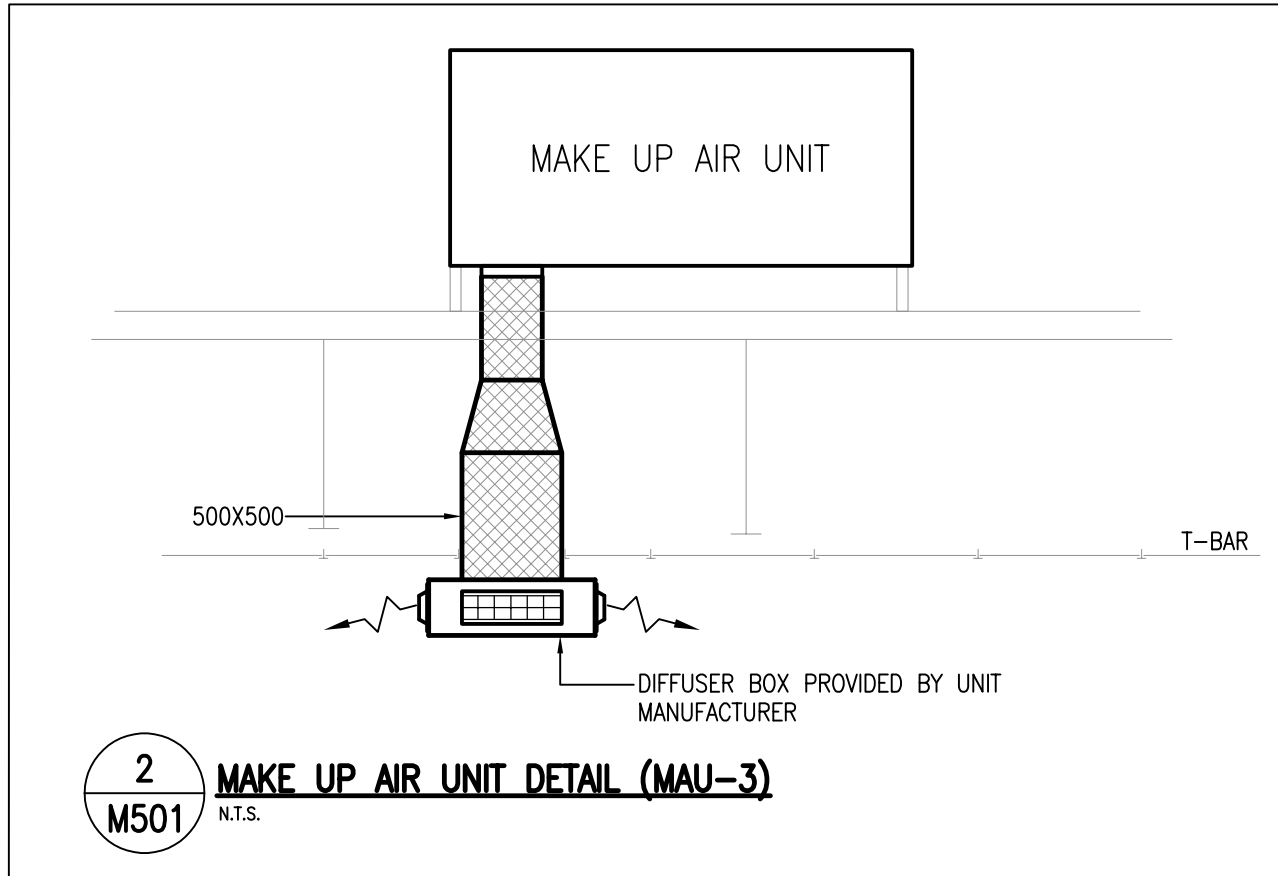
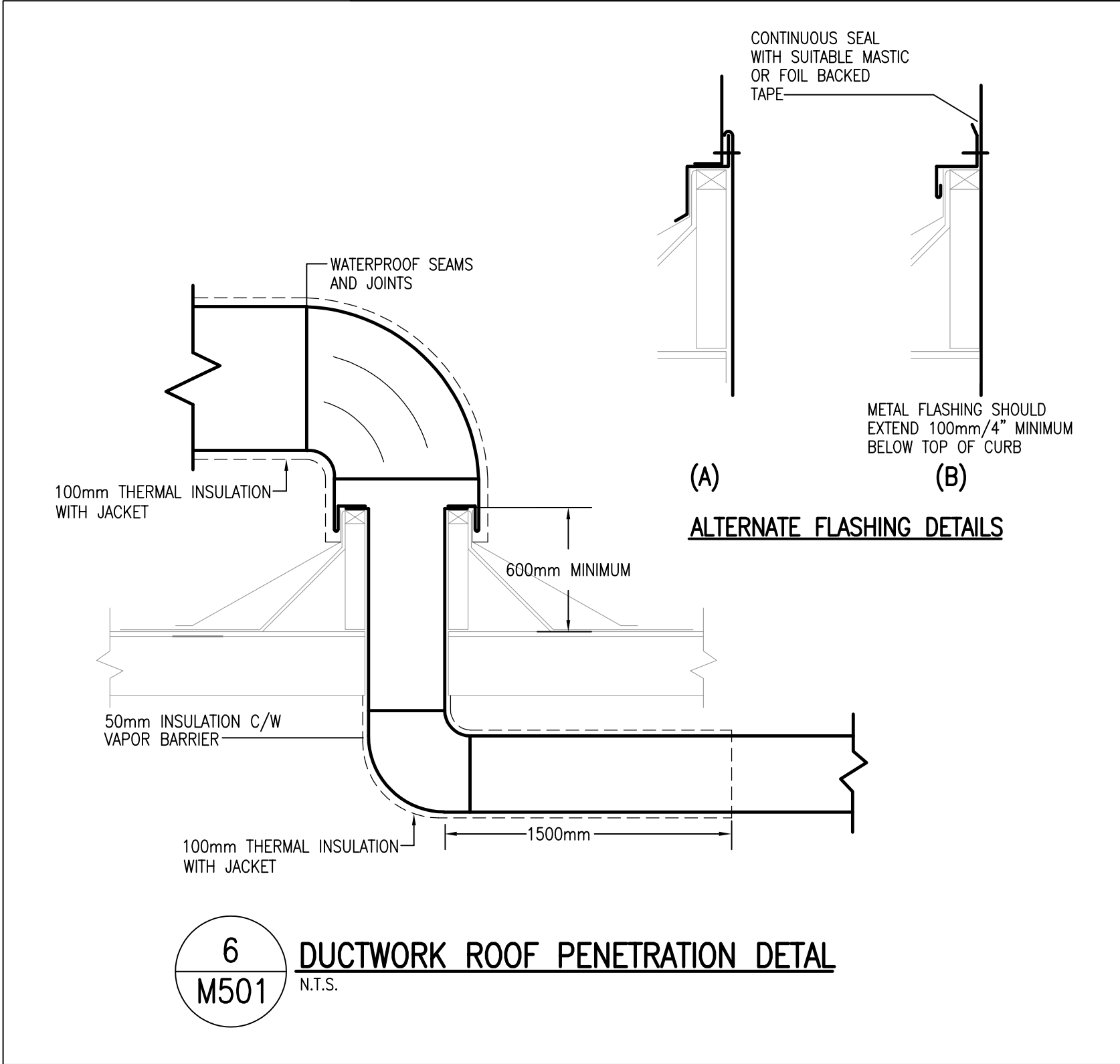
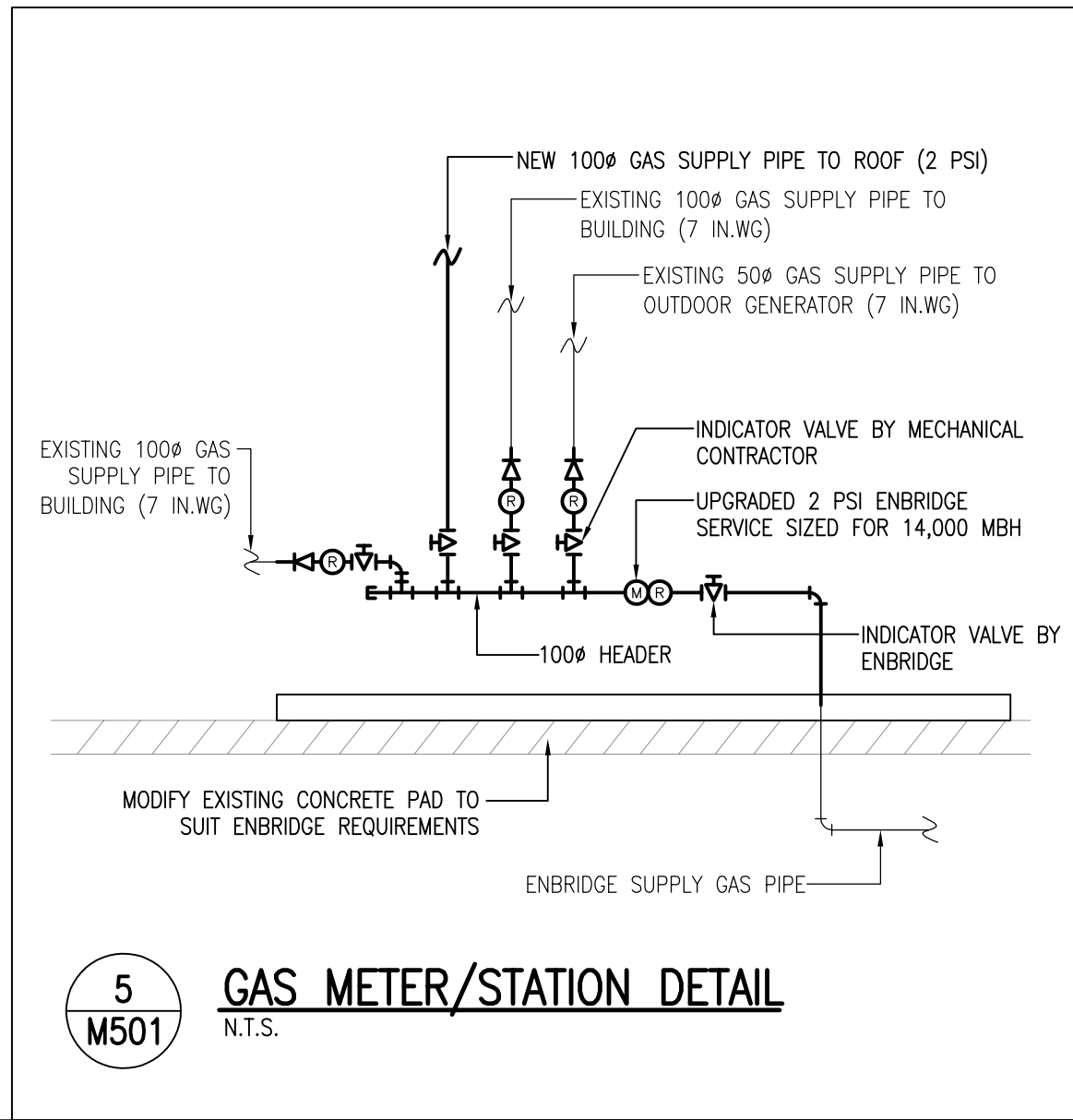
UNIT VENTILATOR SCHEDULE

COOLING PERFORMANCE BASED ON 35°C OUTDOOR AIR TEMPERATURE

REF.	ELECTRIC HEAT		AIR SIDE				ENERGY RECOVERY WHEEL – HEATING (WINTER)						ENERGY RECOVERY WHEEL – COOLING (SUMMER)						PACKAGED A/C				ELECTRICAL				REMARKS		
	CAPACITY KW	FLOW L/S	S.P. Pa	MIN O.A. L/S	O.A. L/S	EXH L/S	O.A. DB °C	ROOM AIR DB °C	L.A.T. DB °C	CAPACITY KW	O.A. L/S	EXH L/S	O.A.		ROOM AIR DB °C	L.A.T. DB °C	CAPACITY KW	E.A.T.		TOTAL KW	SENS. KW	E.E.R.	VOLTAGE	M.C.A	F.I.A.	M.O.C.P.			
													DB °C	WB °C				DB °C	WB °C									DB °C	WB °C
UV-1	5.0	377	62	42	126	126	-27	22.2	15.0	7.7	126	126	33	24.5	23.9	17.2	25.2	19.1	2.8	26.7	19.4	7.1	5.6	11.3	208/3/60	28.48	18.8	30	EQUAL TO SYSTEMAIR MODEL S281240
UV-2	5.0	377	62	12	126	126	-27	22.2	15.0	7.7	126	126	33	24.5	23.9	17.2	25.2	19.1	2.8	26.7	19.4	7.1	5.6	11.3	208/3/60	28.48	18.8	30	EQUAL TO SYSTEMAIR MODEL S281240
UV-3	7.5	566	62	37	189	189	-27	22.2	7.9	9.9	189	189	33	24.5	23.9	17.2	26.3	19.9	3.7	26.7	19.4	10.6	8.1	11.3	208/3/60	39.53	27.02	40	EQUAL TO SYSTEMAIR MODEL S281260
UV-4	5.0	377	62	41	126	126	-27	22.2	15.0	7.7	126	126	33	24.5	23.9	17.2	25.2	19.1	2.8	26.7	19.4	7.1	5.6	11.3	208/3/60	28.48	18.8	30	EQUAL TO SYSTEMAIR MODEL S281240
UV-5	10	708	62	119	212	212	-27	22.2	5.1	10.3	212	212	33	24.5	23.9	17.2	26.8	20.3	3.9	26.7	19.4	13.5	10.5	10.7	208/3/60	50.08	35.43	60	EQUAL TO SYSTEMAIR MODEL S28128P
UV-6	5.0	377	62	39	126	126	-27	22.2	15.0	7.7	126	126	33	24.5	23.9	17.2	25.2	19.1	2.8	26.7	19.4	7.1	5.6	11.3	208/3/60	28.48	18.8	30	EQUAL TO SYSTEMAIR MODEL S281240
UV-7	10	708	62	86	212	212	-27	22.2	5.1	10.3	212	212	33	24.5	23.9	17.2	26.8	20.3	3.9	26.7	19.4	13.5	10.5	10.7	208/3/60	50.08	35.43	60	EQUAL TO SYSTEMAIR MODEL S28128P
UV-8	5.0	377	62	39	126	126	-27	22.2	15.0	7.7	126	126	33	24.5	23.9	17.2	25.2	19.1	2.8	26.7	19.4	7.1	5.6	11.3	208/3/60	28.48	18.8	30	EQUAL TO SYSTEMAIR MODEL S281240
UV-9	5.0	377	62	42	126	126	-27	22.2	15.0	7.7	126	126	33	24.5	23.9	17.2	25.2	19.1	2.8	26.7	19.4	7.1	5.6	11.3	208/3/60	28.48	18.8	30	EQUAL TO SYSTEMAIR MODEL S281240
UV-10	5.0	377	62	52	126	126	-27	22.2	15.0	7.7	126	126	33	24.5	23.9	17.2	25.2	19.1	2.8	26.7	19.4	7.1	5.6	11.3	208/3/60	28.48	18.8	30	EQUAL TO SYSTEMAIR MODEL S281240
UV-11	10	708	62	80	212	212	-27	22.2	5.1	10.3	212	212	33	24.5	23.9	17.2	26.8	20.3	3.9	26.7	19.4	13.5	10.5	10.7	208/3/60	50.08	35.43	60	EQUAL TO SYSTEMAIR MODEL S28128P
UV-12	7.5	566	62	48	189	189	-27	22.2	7.9	9.9	189	189	33	24.5	23.9	17.2	26.3	19.9	3.7	26.7	19.4	10.6	8.1	11.3	208/3/60	39.53	27.02	40	EQUAL TO SYSTEMAIR MODEL S281260
UV-13	5.0	377	62	39	126	126	-27	22.2	15.0	7.7	126	126	33	24.5	23.9	17.2	25.2	19.1	2.8	26.7	19.4	7.1	5.6	11.3	208/3/60	28.48	18.8	30	EQUAL TO SYSTEMAIR MODEL S281240
UV-14	5.0	377	62	40	126	126	-27	22.2	15.0	7.7	126	126	33	24.5	23.9	17.2	25.2	19.1	2.8	26.7	19.4	7.1	5.6	11.3	208/3/60	28.48	18.8	30	EQUAL TO SYSTEMAIR MODEL S281240
UV-15	5.0	377	62	39	126	126	-27	22.2	15.0	7.7	126	126	33	24.5	23.9	17.2	25.2	19.1	2.8	26.7	19.4	7.1	5.6	11.3	208/3/60	28.48	18.8	30	EQUAL TO SYSTEMAIR MODEL S281240
UV-16	5.0	377	62	38	126	126	-27	22.2	15.0	7.7	126	126	33	24.5	23.9	17.2	25.2	19.1	2.8	26.7	19.4	7.1	5.6	11.3	208/3/60	28.48	18.8	30	EQUAL TO SYSTEMAIR MODEL S281240
UV-17	5.0	377	62	39	126	126	-27	22.2	15.0	7.7	126	126	33	24.5	23.9	17.2	25.2	19.1	2.8	26.7	19.4	7.1	5.6	11.3	208/3/60	28.48	18.8	30	EQUAL TO SYSTEMAIR MODEL S281240
UV-18	5.0	377	62	38	126	126	-27	22.2	15.0	7.7	126	126	33	24.5	23.9	17.2	25.2	19.1	2.8	26.7	19.4	7.1	5.6	11.3	208/3/60	28.48	18.8	30	EQUAL TO SYSTEMAIR MODEL S281240
UV-19	5.0	377	62	38	126	126	-27	22.2	15.0	7.7	126	126	33	24.5	23.9	17.2	25.2	19.1	2.8	26.7	19.4	7.1	5.6	11.3	208/3/60	28.48	18.8	30	EQUAL TO SYSTEMAIR MODEL S281240
UV-20	5.0	377	62	38	126	126	-27	22.2	15.0	7.7	126	126	33	24.5	23.9	17.2	25.2	19.1	2.8	26.7	19.4	7.1	5.6	11.3	208/3/60	28.48	18.8	30	EQUAL TO SYSTEMAIR MODEL S281240
UV-21	7.5	566	62	52	189	189	-27	22.2	7.9	9.9	189	189	33	24.5	23.9	17.2	26.3	19.9	3.7	26.7	19.4	10.6	8.1	11.3	208/3/60	39.53	27.02	40	EQUAL TO SYSTEMAIR MODEL S281260
UV-22	5.0	377	62	38	126	126	-27	22.2	15.0	7.7	126	126	33	24.5	23.9	17.2	25.2	19.1	2.8	26.7	19.4	7.1	5.6	11.3	208/3/60	28.48	18.8	30	EQUAL TO SYSTEMAIR MODEL S281240
UV-23	5.0	377	62	38	126	126	-27	22.2	15.0	7.7	126	126	33	24.5	23.9	17.2	25.2	19.1	2.8	26.7	19.4	7.1	5.6	11.3	208/3/60	28.48	18.8	30	EQUAL TO SYSTEMAIR MODEL S281240
UV-24	5.0	377	62	18	126	126	-27	22.2	15.0	7.7	126	126	33	24.5	23.9	17.2	25.2	19.1	2.8	26.7	19.4	7.1	5.6	11.3	208/3/60	28.48	18.8	30	EQUAL TO SYSTEMAIR MODEL S281240
UV-25	7.5	566	62	51	189	189	-27	22.2	7.9	9.9	189	189	33	24.5	23.9	17.2	26.3	19.9	3.7	26.7	19.4	10.6	8.1	11.3	208/3/60	39.53	27.02	40	EQUAL TO SYSTEMAIR MODEL S281260
UV-26	5.0	377	62	39	126	126	-27	22.2	15.0	7.7	126	126	33	24.5	23.9	17.2	25.2	19.1	2.8	26.7	19.4	7.1	5.6	11.3	208/3/60	28.48	18.8	30	EQUAL TO SYSTEMAIR MODEL S281240
UV-27	5.0	377	62	39	126	126	-27	22.2	15.0	7.7	126	126	33	24.5	23.9	17.2	25.2	19.1	2.8	26.7	19.4	7.1	5.6	11.3	208/3/60	29.1	18.8	30	EQUAL TO SYSTEMAIR MODEL S281240 C/W INTEGRAL CONDENSATE PUMP
UV-28	5.0	377	62	39	126	126	-27	22.2	15.0	7.7	126	126	33	24.5	23.9	17.2	25.2	19.1	2.8	26.7	19.4	7.1	5.6	11.3	208/3/60	29.1	18.8	30	EQUAL TO SYSTEMAIR MODEL S281240 C/W INTEGRAL CONDENSATE PUMP
UV-29	5.0	377	62	42	126	126	-27	22.2	15.0	7.7	126	126	33	24.5	23.9	17.2	25.2	19.1	2.8	26.7	19.4	7.1	5.6	11.3	208/3/60	29.1	18.8	30	EQUAL TO SYSTEMAIR MODEL S281240 C/W INTEGRAL CONDENSATE PUMP
UV-30	5.0	377	62	42	126	126	-27	22.2	15.0	7.7	126	126	33	24.5	23.9	17.2	25.2	19.1	2.8	26.7	19.4	7.1	5.6	11.3	208/3/60	29.1	18.8	30	EQUAL TO SYSTEMAIR MODEL S281240 C/W INTEGRAL CONDENSATE PUMP
UV-31	5.0	377	62	40	126	126	-27	22.2	15.0	7.7	126	126	33	24.5	23.9	17.2	25.2	19.1	2.8	26.7	19.4	7.1	5.6	11.3	208/3/60	29.1	18.8	30	EQUAL TO SYSTEMAIR MODEL S281240 C/W INTEGRAL CONDENSATE PUMP
UV-32	5.0	377	62	39	126	126	-27	22.2	15.0	7.7	126	126	33	24.5	23.9	17.2	25.2	19.1	2.8	26.7	19.4	7.1	5.6	11.3	208/3/60	29.1	18.8	30	EQUAL TO SYSTEMAIR MODEL S281240 C/W INTEGRAL CONDENSATE PUMP
UV-33	5.0	377	62	39	126	126	-27	22.2	15.0	7.7	126	126	33	24.5	23.9	17.2	25.2	19.1	2.8	26.7	19.4	7.1	5.6	11.3	208/3/60	29.1	18.8	30	EQUAL TO SYSTEMAIR MODEL S281240 C/W INTEGRAL CONDENSATE PUMP
UV-34	5.0	377	62	38	126	126	-27	22.2	15.0	7.7	126	126	33	24.5	23.9	17.2	25.2	19.1	2.8	26.7	19.4	7.1	5.6	11.3	208/3/60	29.1	18.8	30	EQUAL TO SYSTEMAIR MODEL S281240 C/W INTEGRAL CONDENSATE PUMP
UV-35	5.0	377	62	39	126	126	-27	22.2	15.0	7.7	126	126	33	24.5	23.9	17.2	25.2	19.1	2.8	26.7	19.4	7.1	5.6	11.3	208/3/60	29.1	18.8	30	EQUAL TO SYSTEMAIR MODEL S281240 C/W INTEGRAL CONDENSATE PUMP
UV-36	5.0	377	62	38	126	126	-27	22.2	15.0	7.7	126	126	33	24.5	23.9	17.2	25.2	19.1	2.8	26.7	19.4	7.1	5.6	11.3	208/3/60	29.1	18.8	30	EQUAL TO SYSTEMAIR MODEL S281240 C/W INTEGRAL CONDENSATE PUMP
UV-37	5.0	377	62	40	126	126	-27	22.2	15.0	7.7	126	126	33	24.5	23.9	17.2	25.2	19.1	2.8	26.7	19.4	7.1	5.6	11.3	208/3/60	29.1	18.8	30	EQUAL TO SYSTEMAIR MODEL S281240 C/W INTEGRAL CONDENSATE PUMP
UV-38	7.5	566	62	78	189	189	-27	22.2	7.9	9.9	189	189	33	24.5	23.9	17.2	26.3	19.9	3.7	26.7	19.4	10.6	8.1	11.3	208/3/60	40.15	27.02	45	EQUAL TO SYSTEMAIR MODEL S281260 C/W INTEGRAL CONDENSATE PUMP

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5.	ISSUED FOR TENDER & PERMIT	APR 08/26
4.	ISSUED FOR 99% REVIEW	OCT 9/25
3.	ISSUED FOR 90% REVIEW	AUG 27/25
2.	ISSUED FOR 60% REVIEW	JUN 27/25
1.	ISSUED FOR 30% REVIEW	MAY 02/25
REVISION No.	DESCRIPTION	DATE

McKEE ENGINEERING
R.J. McKEE
ENGINEERING LTD.
1785 Woodward Drive
Ottawa, ON K2C 0P9
CANADA
Tel: (613) 723-9585
Fax: (613) 723-9584
www.mckeeottawa.ca

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

DRAWING:
MECHANICAL:
DETAILS

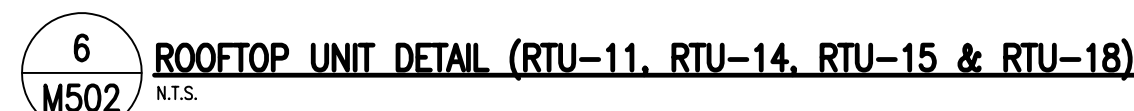


DATE: APRIL 2025
DESIGNED BY: J.G.
DRAWN BY: J.G.
CHECKED BY: S.C.
SCALE: N.T.S.

No. DWGS: 52
PROJECT No.
25020

DRAWING No.
M501

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DRAWING No. **M502**

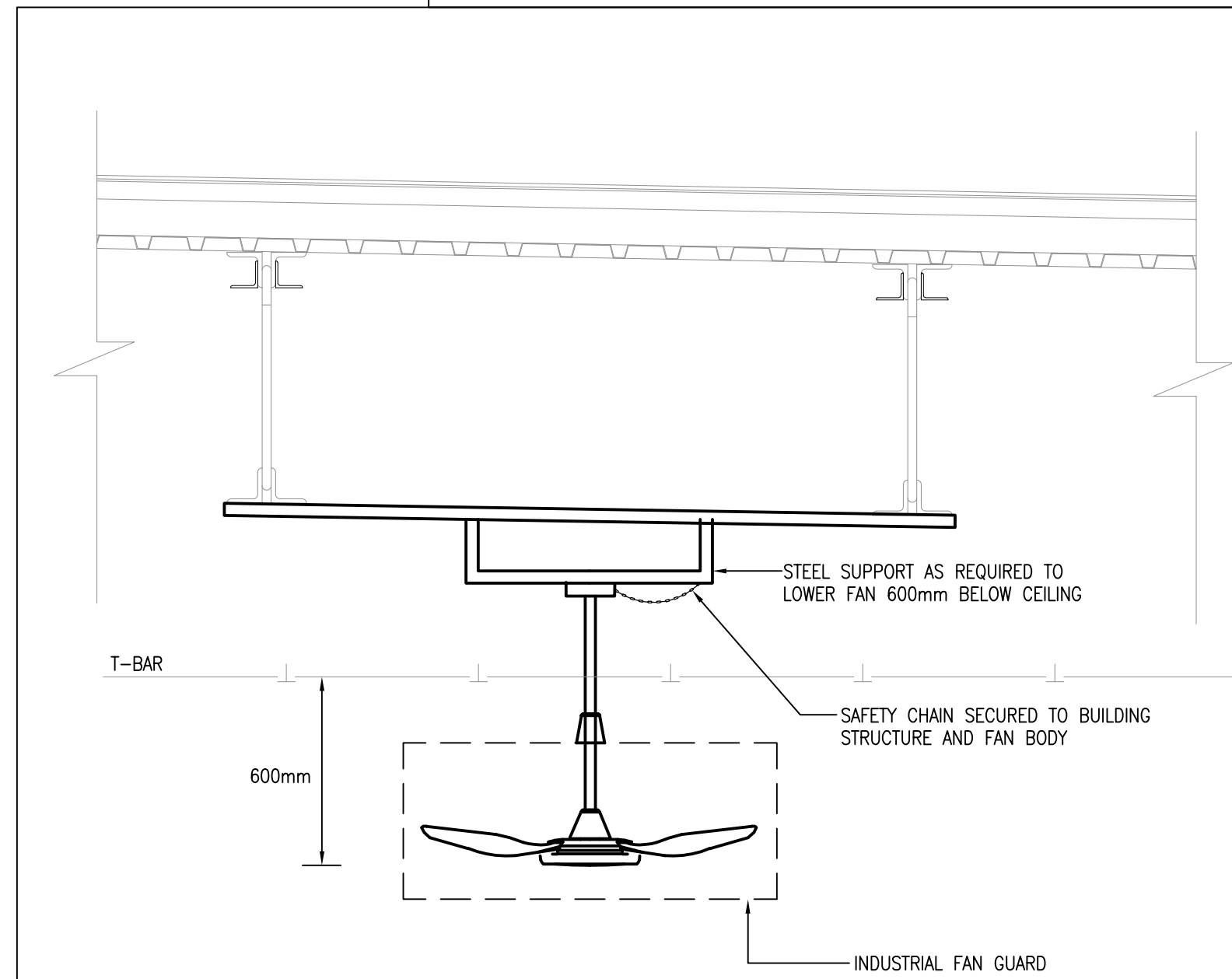
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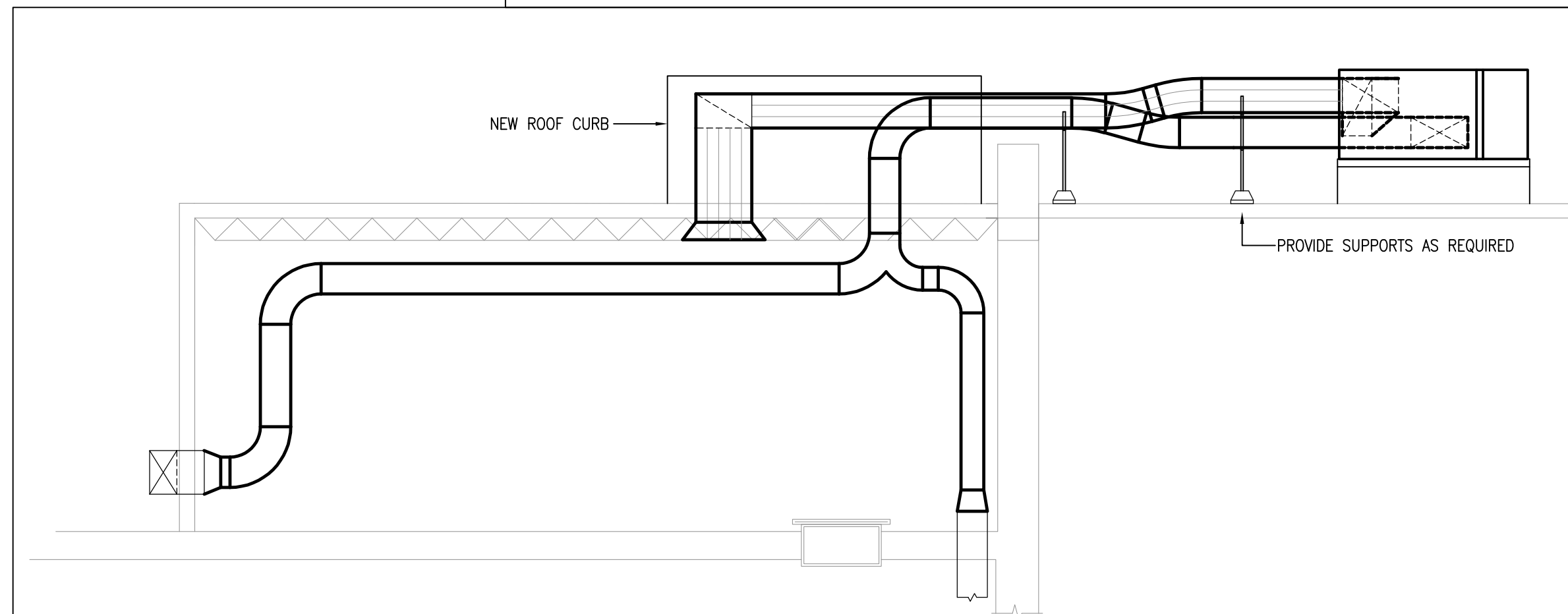
DRAWING NOTES

- CONNECT TO EXISTING OPENING.
- REMOVE MESH, CONNECT TO EXISTING OPENING.
- REMOVE ALL REDUNDANT EQUIPMENT WITHIN MECHANICAL ROOM, INCLUDING AIR HANDLING SYSTEMS AND PIPING. CAP HEATING PIPING AT MECHANICAL ROOM WALLS. CUT BACK DUCTWORK AS REQUIRED FOR NEW CONNECTIONS. REMOVE REFRIGERANT PIPING TO OUTDOOR CONDENSER.
- RELOCATE UNIT HEATER. DISCONNECT AND CUT BACK PIPING, FITTINGS, VALVES. RECONNECT AT NEW LOCATION INDICATED ON 1/M503.

3 RTU-23 DUCTWORK SECTION VIEW
N.T.S.

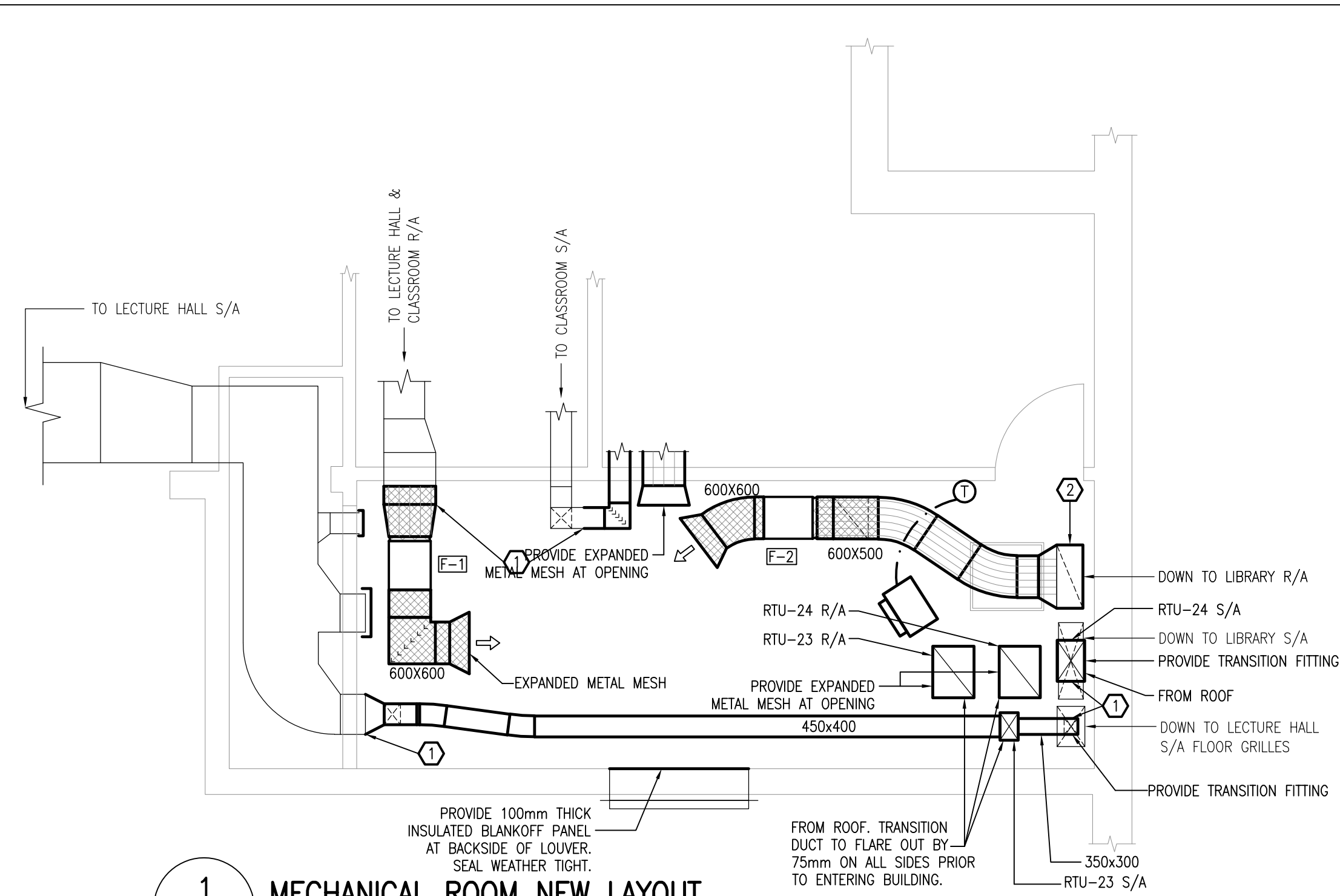


4 DE-STRATIFICATION FAN
N.T.S.

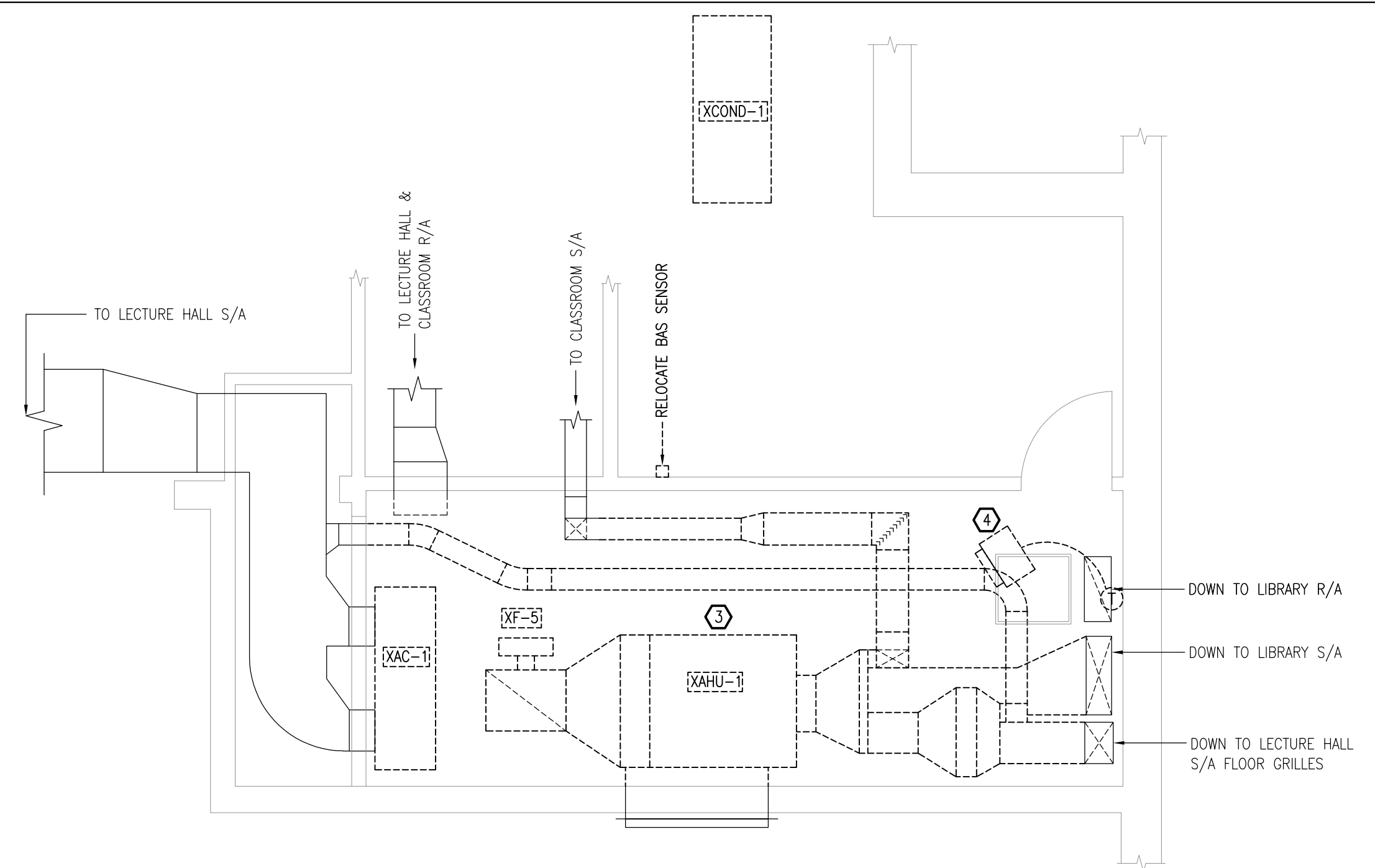


5 RTU-23 MECHANICAL ROOM SECTION VIEW
N.T.S.

1 MECHANICAL ROOM NEW LAYOUT
N.T.S.



2 MECHANICAL ROOM DEMOLITION LAYOUT
N.T.S.



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