


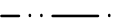

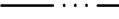


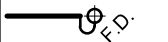
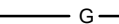
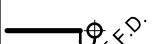

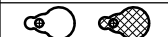





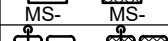

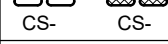







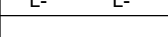

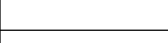

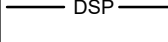



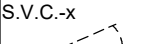

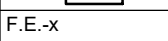
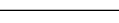





SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	FIRE DAMPER		SMOKE DAMPER
	MOTOR OPERATED DAMPER		POSITIVE SEAL DAMPER
	MANUAL DAMPER		GRAVITY OR BACKDRAFT DAMPER
	BALANCING DAMPER		REMOTE OPERATED BALANCING DAMPER
	COMBINATION SMOKE AND FIRE DAMPER		VOLUME EXTRACTOR
V.A.V., F.A.V., AND A.F.S. TAGS			
V.A.V. BOX TYPE		V.A.V. BOX TYPE	
MIN. PRIMARY FLOW FAN POWERED V.A.V. BOX TYPE		MIN. FLOW (L/s) HEATING/COOLING MAX. FLOW (L/s) HEATING/COOLING REHEAT COIL CAPACITY (KW)	
		IMPERIAL: CFM [INS.] METRIC: L/s [mm]	
	V.A.V. BOX (VARIABLE AIR VOLUME)		FAN POWERED BOX C/W RETURN AIR SILENCER OR ACOUSTICALLY LINED RETURN AIR
	V.A.V. BOX WITH ATTENUATOR		FAN POWERED BOX C/W RETURN AIR SILENCER OR ACOUSTICALLY LINED RETURN AIR WITH REHEAT COIL
	V.A.V. BOX WITH REHEAT COIL		INDUCTION V.A.V. BOX
	V.A.V. BOX WITH REHEAT COIL AND ATTENUATOR		PRESSURE INDEPENDENT AIR VALVE (LAB)
			TERMINAL UNIT (SEE NOTE 2)
HEATING ELEMENT TAG			
	HEATING CAPACITY ACTIVE ELEMENT LENGTH ENCLOSURE TYPE		
	HORIZONTAL UNIT HEATER		DUCT COIL
	DOWN BLAST UNIT HEATER		RADIATION HEATING RISER UNITS (S=SUPPLY AND R=RETURN)
	RADIANT HEATING PANEL		WALL FIN ELEMENT IN CONTINUOUS ENCLOSURE

NOTE: 1. - NOT ALL SYMBOLS APPLY; REFER TO FLOOR PLANS AND DRAWINGS
NOTE: 2. - SYMBOLS ARE DIAGRAMMATIC IN NATURE, REFER TO SPECIFICATION/SCHEDULES FOR EXACT
DIMENSIONS/CLEARANCES

5 TM40.1				AIR HANDLING SYMBOLS (MSD-012.09)			
SYMBOL		DESCRIPTION		SYMBOL		DESCRIPTION	
		SUPPLY DUCT UP OR FROM ABOVE				ACOUSTICALLY LINED TRANSFER AIR DUCT	
		SUPPLY DUCT DOWN OR FROM BELOW				SILENCER	
		RETURN OR EXHAUST DUCT UP OR FROM ABOVE				CROSSTALK SILENCER	
		RETURN OR EXHAUST DUCT DOWN OR FROM BELOW				DUCT WITH MINIMUM CLEARANCE FIRE RATE ENCLOSURE	
		ROUND DUCT UP OR FROM ABOVE				DUCT WITH SLEEVE, INSULATION AND DAMPER	
		ROUND DUCT DOWN OR FROM BELOW				CAPPED CONNECTION	
		ACOUSTIC LINED DUCT					
		FLEXIBLE CONNECTION				RISE IN DUCT	
		SQUARE ELBOW DUCT WITH TURNING VANE				DROP IN DUCT	
		RADIUS ELBOW WITH TURNING VANES				SOUND BAFFLE	
		AXIAL FAN/IN-LINE FAN MIXED FLOW OR CENTRIFUGAL				PROPELLER FAN WITH PROTECTIVE SCREEN	
DIFFUSER GRILLE OR REGISTER TYPE (IMPERIAL: CFM, [INS.] METRIC: L/s, [mm])		NECK OR FACE SIZE (MM) AIR FLOW (L/S)		LINEAR SLOT DIFFUSER AIR FLOW (L/S)		(IMPERIAL: CFM, [INS.] METRIC: L/s, [mm]) NECK SIZE AND LINEAR DIFFUSER LENGTH (MM)	
		ROUND SUPPLY DIFFUSER				LINEAR SUPPLY AIR DIFFUSER C/W FLEXIBLE DUCT	
		DUCTED RETURN OR EXHAUST REGISTER OR GRILLE				LIGHT TROFFER DIFFUSER TOP INLET C/W FLEXIBLE DUCT	
		SQUARE OR RECTANGULAR DIFFUSER				LIGHT TROFFER DIFFUSER SIDE INLET C/W FLEXIBLE DUCT	
		RETURN OR EXHAUST GRILLE				DUCT MOUNTED SUPPLY OR RETURN GRILLE	
		ROUND RETURN OR EXHAUST GRILLE				LINEAR SUPPLY OR RETURN GRILLE	
		SQUARE DIFFUSER					
		DIFFUSERS WITH BLANK-OFF PORTION (QTY SHOWN)					

NOTE: NOT ALL SYMBOLS APPLY. REFER TO FLOOR PLANS AND DRAWINGS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	FLOOR DRAIN SIZE AS NOTED REFER TO SPECIFICATION FOR TYPES		DOMESTIC COLD WATER (DOM. COLD WATER)
	FUNNEL FLOOR DRAIN SIZE AS NOTED REFER TO SPECIFICATION FOR TYPES		DOMESTIC HOT WATER (DOM. HOT WATER)
	UPTURNED CLEANOUT		DOMESTIC HOT WATER RECIRCULATION (DOM. HOT WATER RECIRC.)
	HORIZONTAL CLEANOUT		TEMPERED DOMESTIC HOT WATER
	FLOOR DRAIN FROM ABOVE WITH TRAP		NATURAL GAS
	FUNNEL FLOOR DRAIN FROM ABOVE WITH TRAP		NATURAL GAS VENT
	WATER CLOSET AS NOTED REFER TO SPECIFICATION FOR TYPES		VENT
	SINGLE COMPARTMENT KITCHEN SINK		SANITARY ABOVE GRADE OR FLOOR
	MOP SINK		SANITARY BELOW GRADE OR FLOOR
	DOUBLE COMPARTMENT SINK		GATE OR ISOLATION VALVE (REFER TO SPECIFICATION)
	DRINKING FOUNTAIN		GLOBE VALVE
	URINAL		BALL VALVE
	WALL HUNG LAVATORY		PENDANT SPRINKLER HEAD
	WET SPRINKLER		DP DRY PENDANT SPRINKLER HEAD
	DRY SPRINKLER		UPRIGHT SPRINKLER HEAD
	FIRE HOSE CABINET AND TYPE		CONCEALED SPRINKLER HEAD
	SPRINKLER SHUT-OFF VALVE CABINET AND TYPE		ONF NON-FREEZE SPRINKLER HEAD
	FIRE EXTINGUISHER AND TYPE		OH HIGH TEMPERATURE SPRINKLER HEAD
	FIRE EXTINGUISHER CABINET AND TYPE		O* CHEMICAL SPRINKLER HEAD
	FIRE REEL		SW SIDEWALL SPRINKLER HEAD
	WATER METER		W WINDOW SPRINKLER HEAD
	BACK FLOW PREVENTOR	NOTE: NOT ALL SYMBOLS APPLY, REFER TO FLOOR PLANS AND DRAWINGS	

GENERAL SYMBOLS AND ABBREVIATIONS (MSD-012.14)			
SYMBOL		SYMBOL	
DESCRIPTION		DESCRIPTION	
	HEATING WATER SUPPLY		FUEL OIL SUPPLY
	HEATING WATER RETURN		FUEL OIL RETURN
	CHILLED WATER SUPPLY		EMERGENCY FUEL OIL VENT
	CHILLED WATER RETURN		FUEL OIL VENT
	GLYCOL SUPPLY		FUEL OIL FILL
	GLYCOL RETURN		PUMPED STEAM CONDENSATE
	GLYCOL HEATING SUPPLY		REFRIGERATION SUCTION
	GLYCOL HEATING RETURN		REFRIGERATION LIQUID
	GLYCOL COOLING SUPPLY		REFRIGERATION HOT GAS
	GLYCOL COOLING RETURN		DUAL TEMPERATURE SUPPLY
	CONDENSER WATER SUPPLY		DUAL TEMPERATURE RETURN
	CONDENSER WATER RETURN		BUCKET TYPE STEAM TRAP
	LOW PRESSURE STEAM		FLOAT AND THERMOSTAT TYPE STEAM TRAP
	MEDIUM PRESSURE STEAM		STEAM VACUUM BREAKER
	HIGH PRESSURE STEAM		REFRIGERATION THERMAL EXPANSION VALVE
	LOW PRESSURE CONDENSATE		REFRIGERATION SOLENOID LIQUID VALVE
	MEDIUM PRESSURE CONDENSATE		REFRIGERATION FILTER DRYER
	HIGH PRESSURE CONDENSATE		6 WAY CONTROL VALVE ELECTRIC
	PRESSURE INDEPENDENT CONTROL VALVE		6 WAY CONTROL VALVE
	2 WAY CONTROL VALVE		CONTROL VALVE (WHERE SYMBOL NOT SHOWN)
	3 WAY CONTROL VALVE		

NOTE: NOT ALL SYMBOLS APPLY, REFER TO FLOOR PLANS AND DRAWINGS

[illegible]

GENERAL AND SITE PLAN SYMBOLS AND ABBREVIATIONS (MSD-012.01)			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	DETAIL NUMBER DRAWING NUMBER		SECTION NUMBER DRAWING NUMBER
	REVISION NUMBER		REVISION BUBBLE
	ELBOWS		PIPING SERVICE CONTINUES
	TEE		REFER TO STANDARD DETAIL DRAWINGS FOR ADDITIONAL REQUIREMENTS OF EQUIPMENT NOTED
	BRANCH OFF BOTTOM OF MAIN		VENT PIPE REDUCER
	BRANCH OFF TOP OF MAIN		AIR QUANTITY C.F.M. (L/s)
	DIRECTION OF FLOW		NAMING OF EXISTING EQUIPMENT DENOTES EXISTING EQUIPMENT DESIGNATION FLOOR NUMBER SEQUENTIAL NUMBER EX:FC-12-01
NOTE: EXISTING EQUIPMENT, PIPING, VALVES, DUCTWORK SHOWN LIGHT TO REMAIN			
	EXISTING DUCT, FLEX. DUCT AND AIR SUPPLY TO REMAIN		EX EXISTING CONCEALED SPRINKLER HEAD & PIPING TO REMAIN
	EXISTING ELECTRIC/PNEUMATIC THERMOSTAT/TEMPERATURE SENSOR AND SPEED CONTROL SWITCH TO REMAIN		EX EXISTING PENDANT SPRINKLER HEAD & PIPING TO REMAIN
	EXISTING UPRIGHT SPRINKLER HEAD & PIPING TO REMAIN		EX EXISTING SIDEWALL OR WINDOW SPRINKLER HEAD & PIPING TO REMAIN
NOTE: EXISTING EQUIPMENT SHOWN HATCHED TO BE REMOVED AND/OR RELOCATED.			
	EXISTING DUCT, FLEX. DUCT AND AIR SUPPLY TO BE REMOVED		EX EXISTING CONCEALED SPRINKLER HEAD TO BE REMOVED/RELOCATED
	EXISTING ELECTRIC/PNEUMATIC THERMOSTAT/TEMPERATURE SENSOR AND SPEED CONTROL SWITCH TO BE REMOVED/RELOCATED		EX EXISTING PENDANT SPRINKLER HEAD TO BE REMOVED/RELOCATED
	EXISTING UPRIGHT SPRINKLER HEAD TO BE REMOVED/RELOCATED		EX EXISTING SIDEWALL OR WINDOW SPRINKLER HEAD TO BE REMOVED/RELOCATED
NOTE: NOT ALL SYMBOLS APPLY, REFER TO FLOOR PLANS AND DRAWINGS			

ISSUES/ REVISIONS		
No.	Issue	Date
01	ISSUED FOR PERMIT	2023-12-04
02	ISSUED FOR REVIEW	2023-12-19
03	ISSUED FOR REVIEW	2024-01-12
04	ISSUED FOR TENDER	2024-02-02
05	ISSUED FOR CONSTRUCTION	2024-03-28

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PROJECT CONTACT

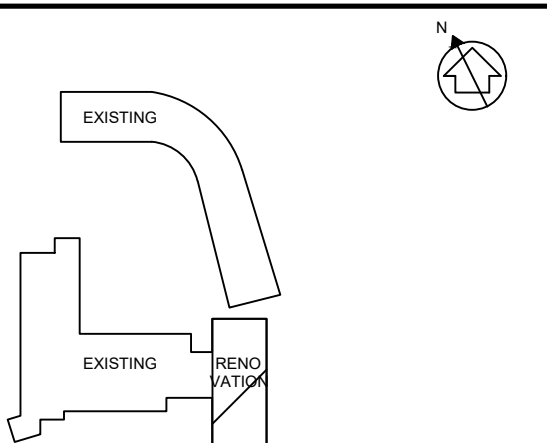
NAME: JONATHAN LUONG

TEL: 437-880-5412

EMAIL: jonathan.luong@smithandandersen.com

THIS DRAWING SHALL BE READ IN CONJUNCTION WITH
MECHANICAL SPECIFICATION SUBMITTED FOR THIS
PROJECT.

Keyplan:



Consultant:



Smith + Andersen

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North

Stamp:

Client

VICTORIA UNIVERSITY

Project: Proj. No.: 23501.003.M.001

**GOLDRING STUDENT CENTRE
RENEWAL**

150 Charles St W, Toronto, ON M5S 1K9

Title: MECHANICAL DRAWING LIST
& LEGENDS

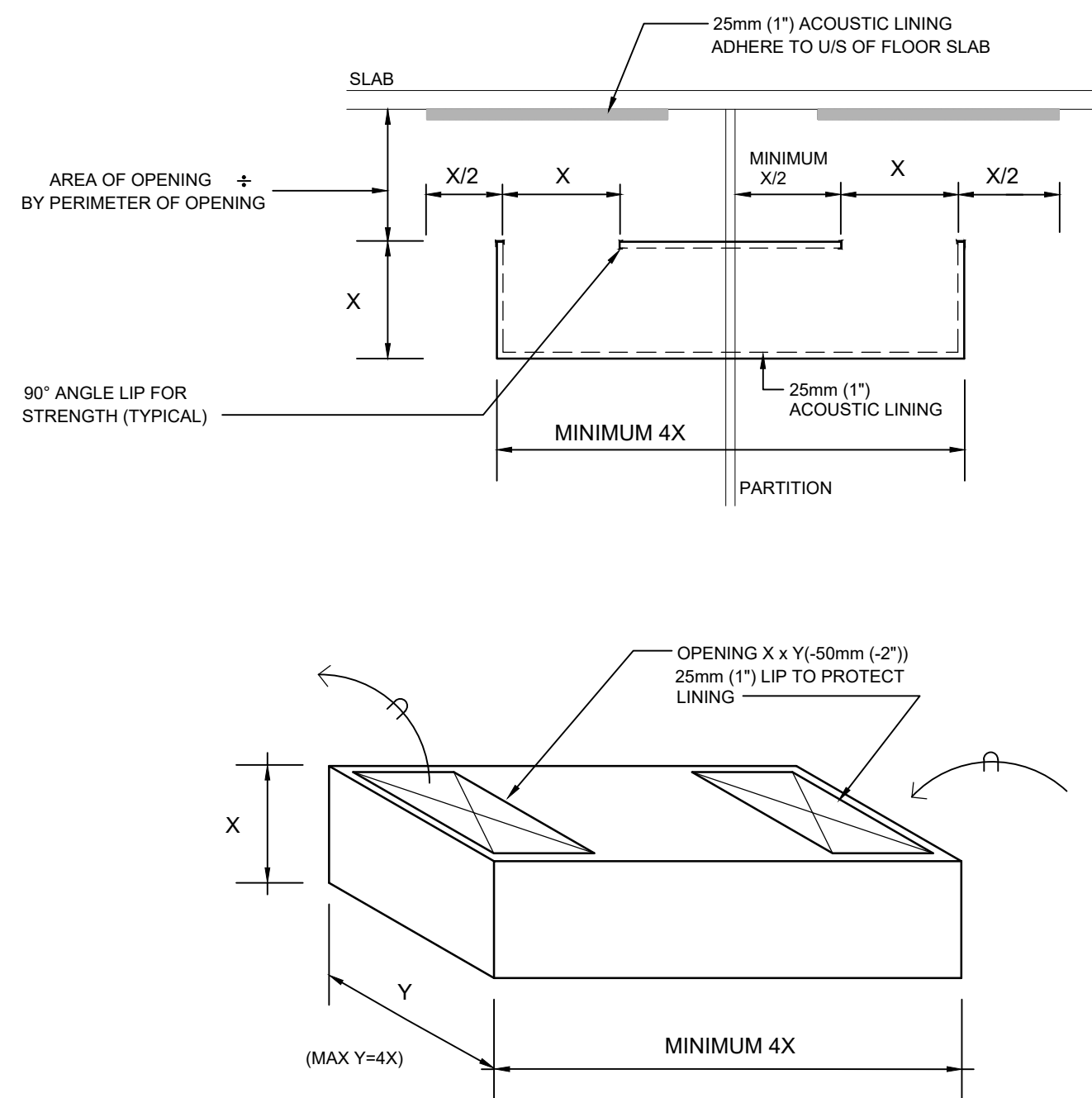
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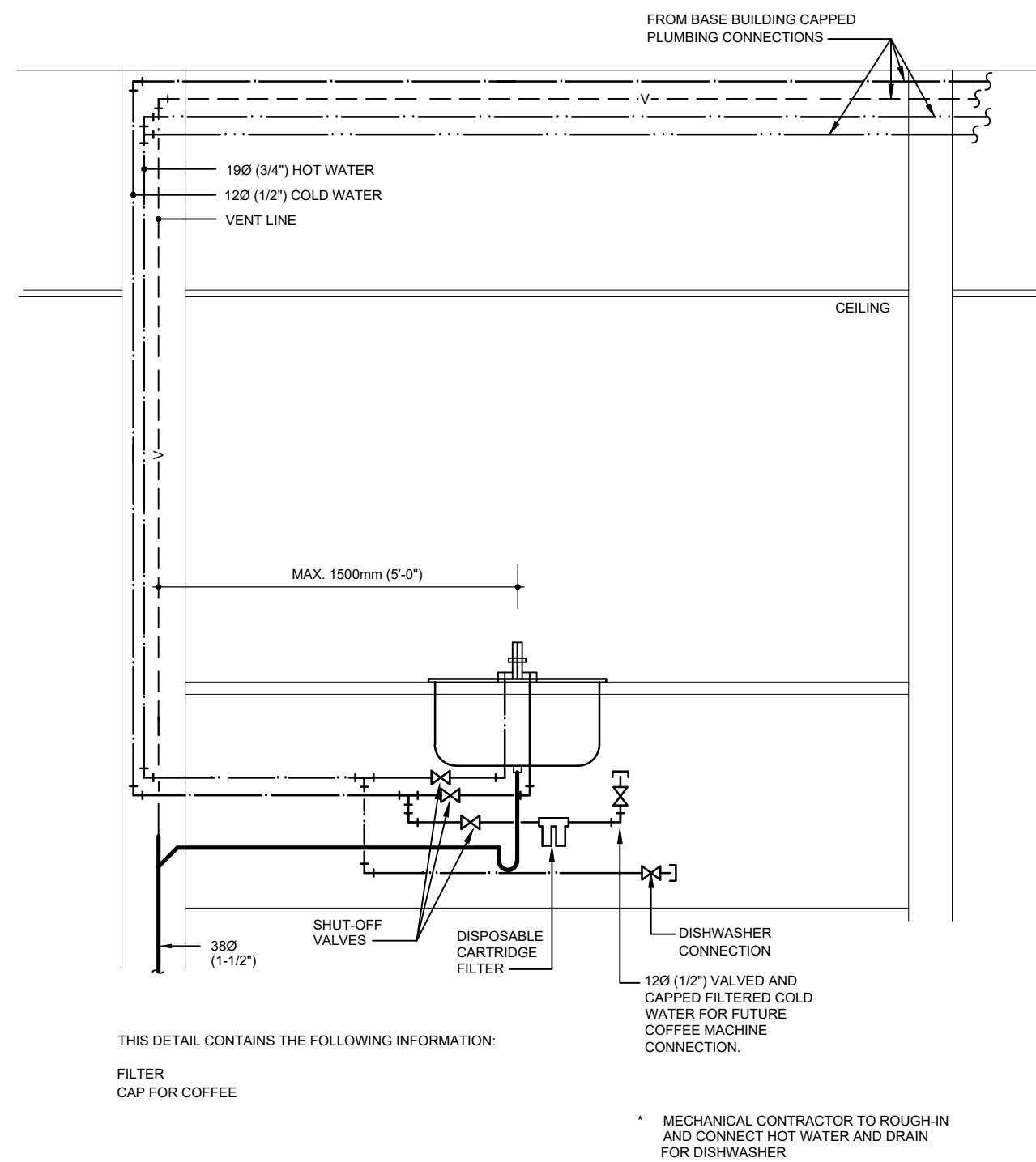
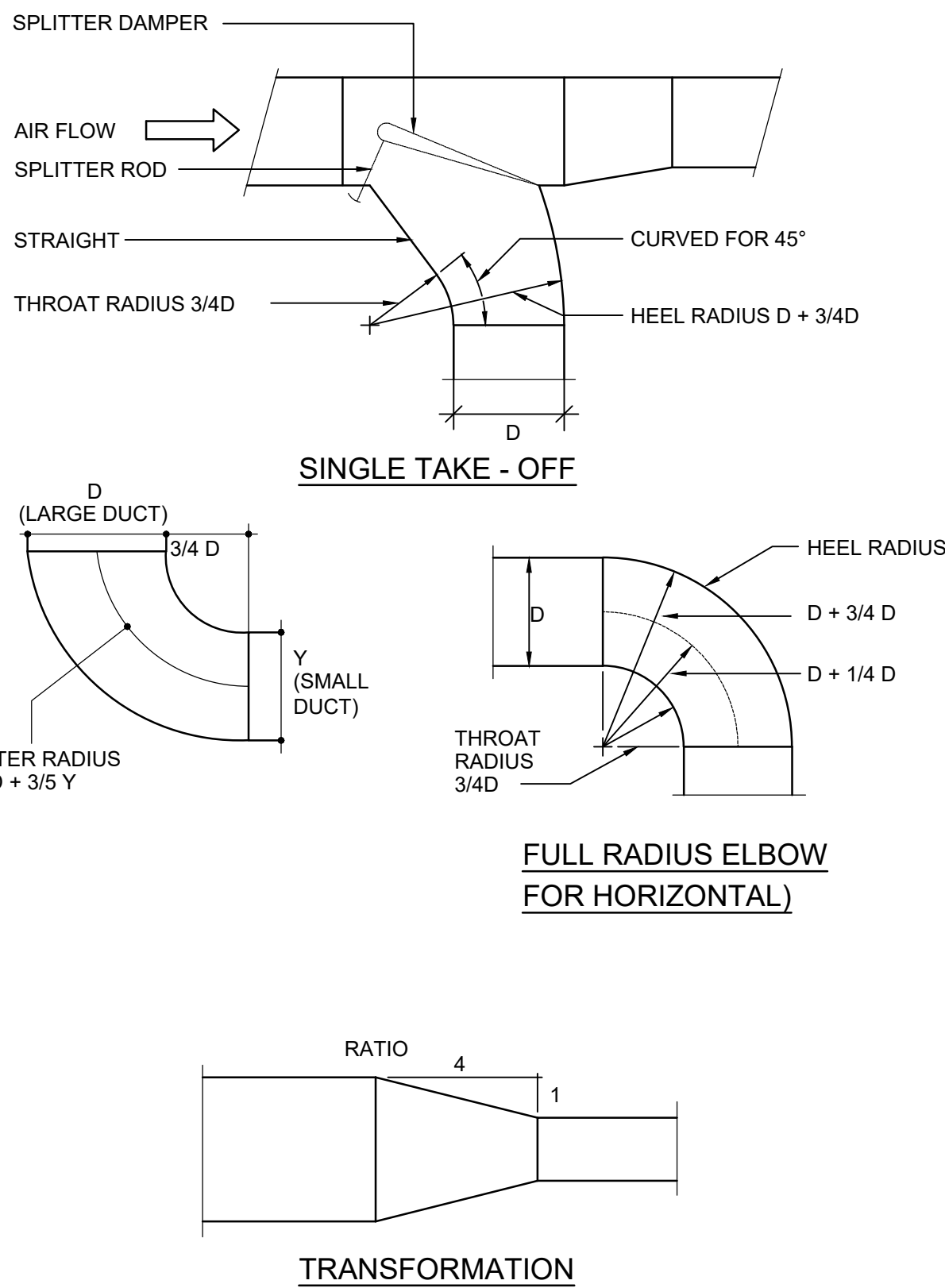
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TM-0.1



NOTES:

TOTAL FREE AREA NOTED ON DRAWINGS.
CONTRACTOR TO PROVIDE MULTIPLE
TRANSFER AIR DUCTS OF SMALLER
DIMENSIONS TO SUIT SITE CONDITIONS AS
REQUIRED



MORIYAMA & TESHIMA ARCHITECTS

mtarch.com

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109 Murray Street, Unit 3 Ottawa, Ontario Canada K1N 5M5 613-562-2905

ISSUES/ REVISIONS

No.	Issue	Date
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03	ISSUED FOR REVIEW	2024-01-12
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05	ISSUED FOR CONSTRUCTION	2024-03-28

PROJECT CONTACT

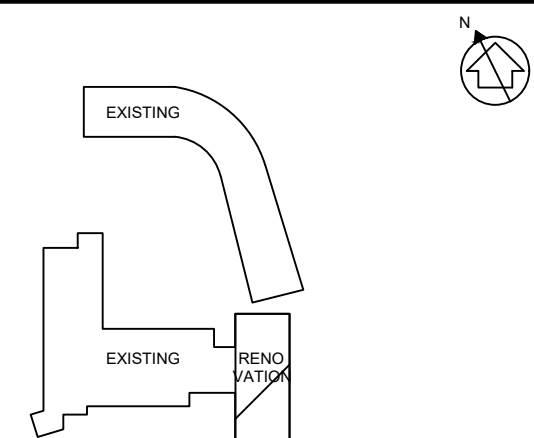
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Keyplan:



Consultant:



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North:

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Client:

VICTORIA UNIVERSITY

Project: GOLDRING STUDENT CENTRE RENEWAL Proj. No.: 23501.003.M.001

150 Charles St W, Toronto, ON M5S 1K9

Title:
MECHANICAL STANDARD
DETAILS

Scale: NTS

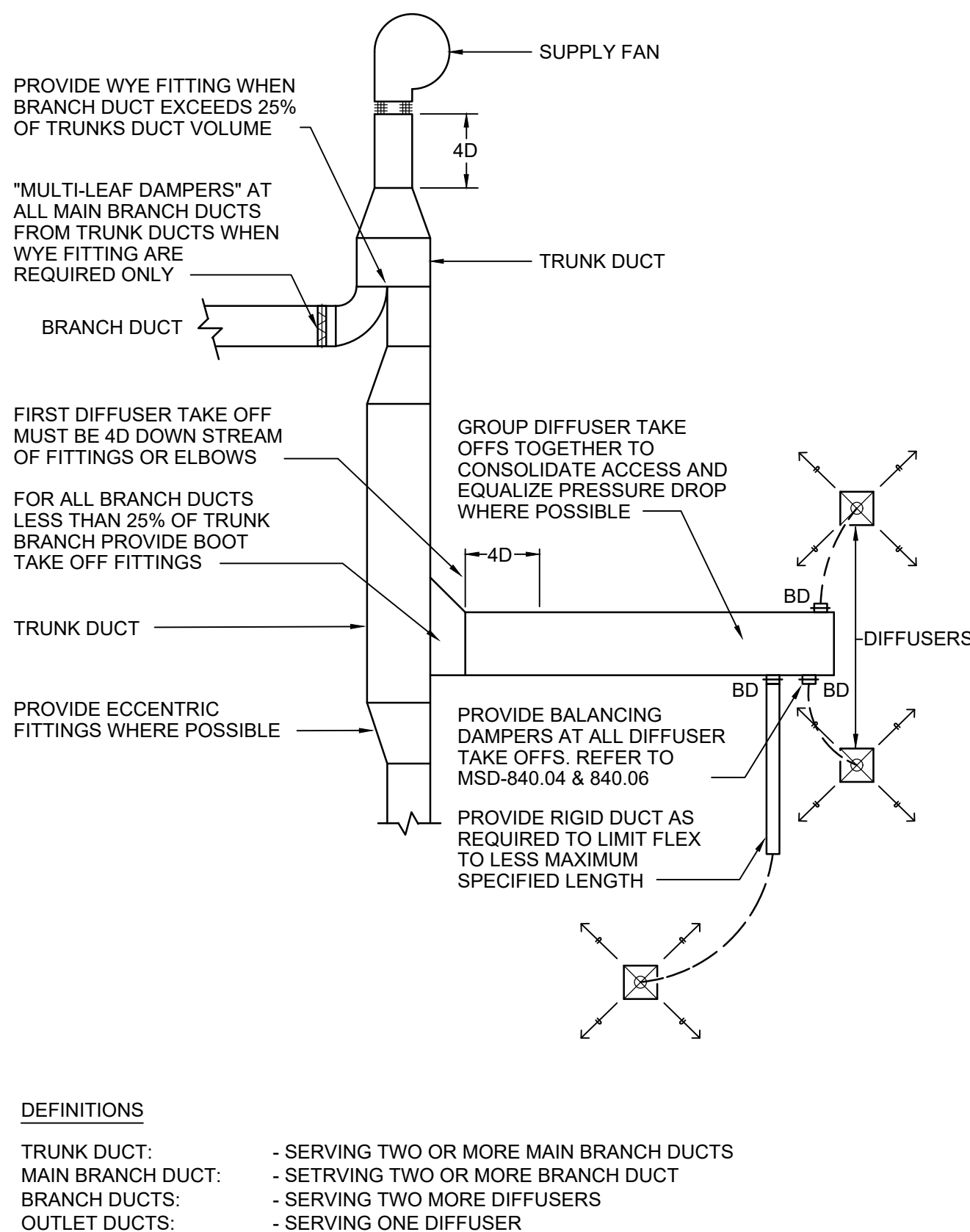
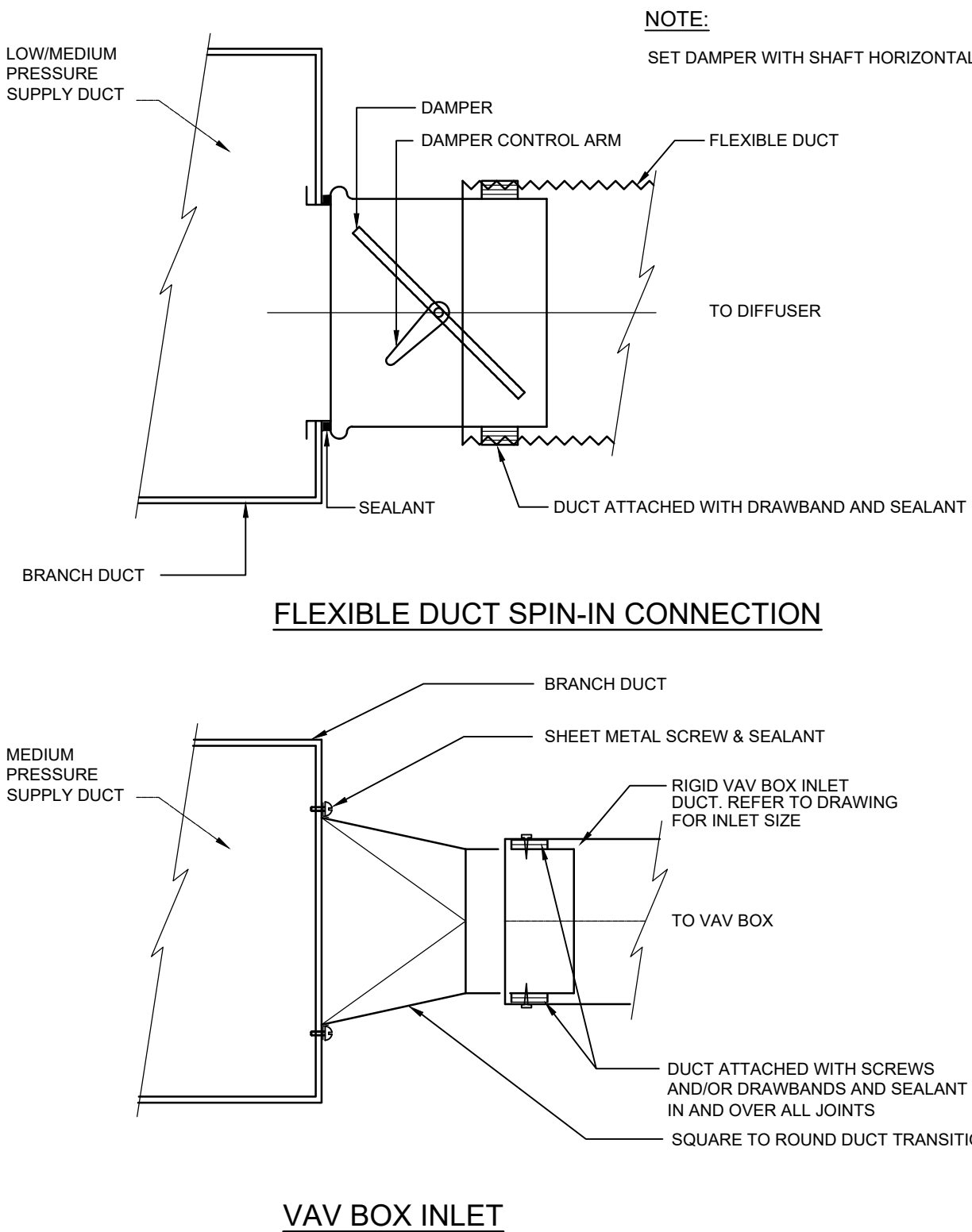
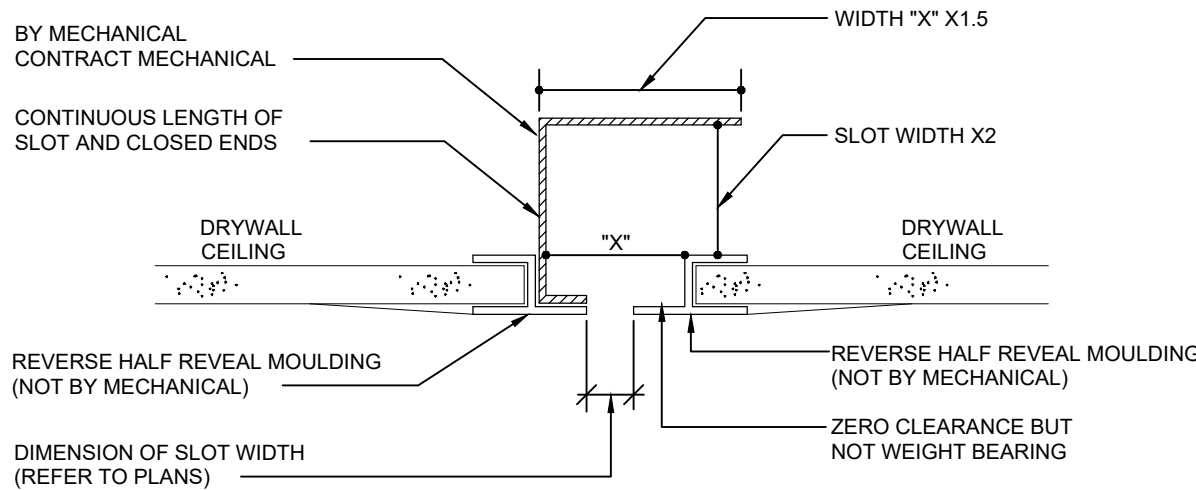
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Checked By: AV/RC

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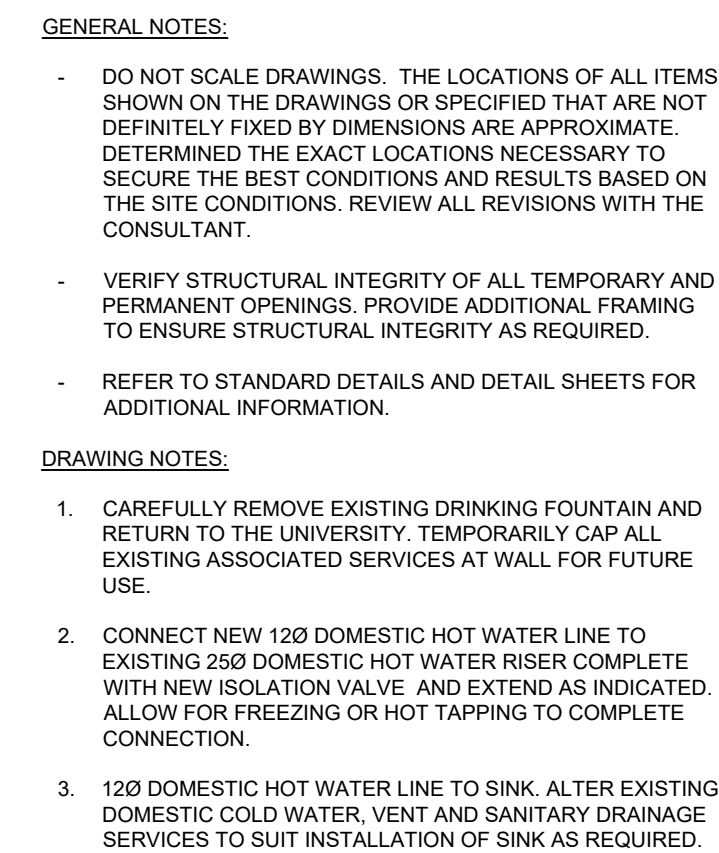
TM-0.2

22 GAUGE SHEET METAL WITH FLAT
BLACK PAINT INSIDE. SIDES, ENDS AND TOP
PROVIDE CONNECTIONS TO CEILING AND
SUPPORTS AS REQUIRED



DEFINITIONS

TRUNK DUCT: - SERVING TWO OR MORE MAIN BRANCH DUCTS
MAIN BRANCH DUCT: - SERVING TWO OR MORE BRANCH DUCT
BRANCH DUCTS: - SERVING TWO OR MORE DIFFUSERS
OUTLET DUCTS: - SERVING ONE DIFFUSER



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[illegible]

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Keyplan:

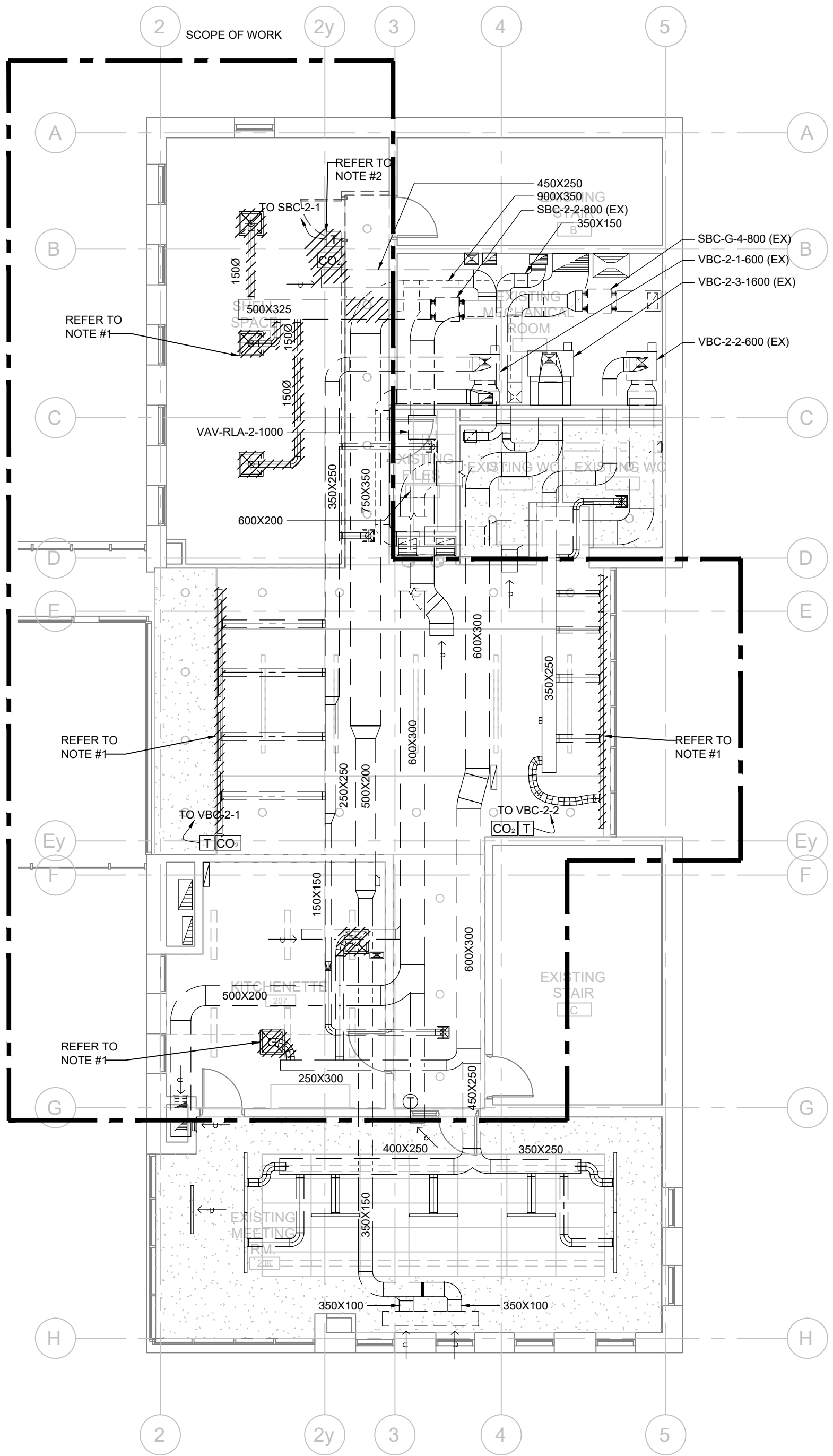
The keyplan shows the layout of the existing building and the proposed renovation. The existing building is shown in solid black, and the renovation area is shown in white with a black outline. A north arrow is located in the top right corner.

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Title: GROUND FLOOR - PLUMBING & DRAINAGE LAYOUT

TM-1.2



- GENERAL NOTES:
- DO NOT SCALE DRAWINGS. THE LOCATIONS OF ALL ITEMS SHOWN ON THE DRAWINGS OR SPECIFIED THAT ARE NOT DEFINITELY FIXED BY DIMENSIONS ARE APPROXIMATE. DETERMINED THE EXACT LOCATIONS NECESSARY TO SECURE THE BEST CONDITIONS AND RESULTS BASED ON THE SITE CONDITIONS. REVIEW ALL REVISIONS WITH THE CONSULTANT.
 - VERIFY STRUCTURAL INTEGRITY OF ALL TEMPORARY AND PERMANENT OPENINGS. PROVIDE ADDITIONAL FRAMING TO ENSURE STRUCTURAL INTEGRITY AS REQUIRED.
 - REFER TO STANDARD DETAILS AND DETAIL SHEETS FOR ADDITIONAL INFORMATION.
- DRAWING NOTES:
- REMOVE/RELOCATE EXISTING SUPPLY AIR DIFFUSERS COMPLETE WITH ASSOCIATED BRANCH DUCTWORK AS REQUIRED. DO NOT RE-USE EXISTING FLEXIBLE DUCTWORK.
 - REMOVE AND RELOCATE EXISTING THERMOSTAT/CO2 SENSOR AND DO NOT REUSE EXISTING CONTROL WIRING. REFER TO DRAWING TM-2.3 FOR NEW LOCATION.

MORIYAMA & TESHIMA **ARCHITECTS**
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ISSUES/ REVISIONS

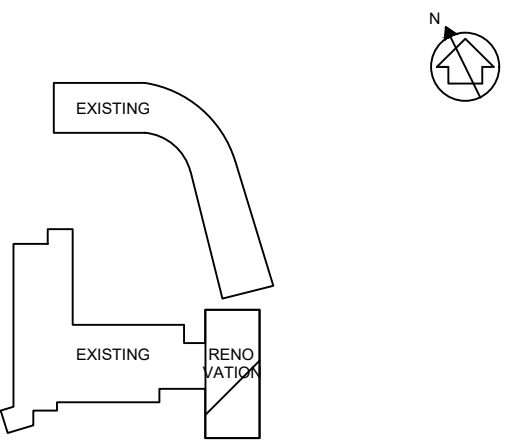
No.	Issue	Date
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02	ISSUED FOR REVIEW	2023-12-19
03	ISSUED FOR REVIEW	2024-01-12
04	ISSUED FOR TENDER	2024-02-02
05	ISSUED FOR ADD-M-01	2024-02-23
06	ISSUED FOR CONSTRUCTION	2024-03-26

PROJECT CONTACT

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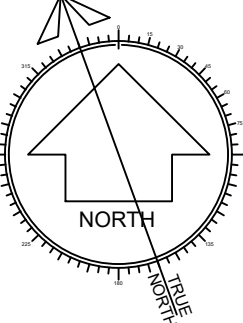


Consultant:



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North:



Stamp:

Client:

VICTORIA UNIVERSITY

Project: Proj. No.: 23501.003.M.001

GOLDRING STUDENT CENTRE
RENEWAL

150 Charles St W, Toronto, ON M5S 1K9

Title:
2ND FLOOR - DEMO HVAC
LAYOUT

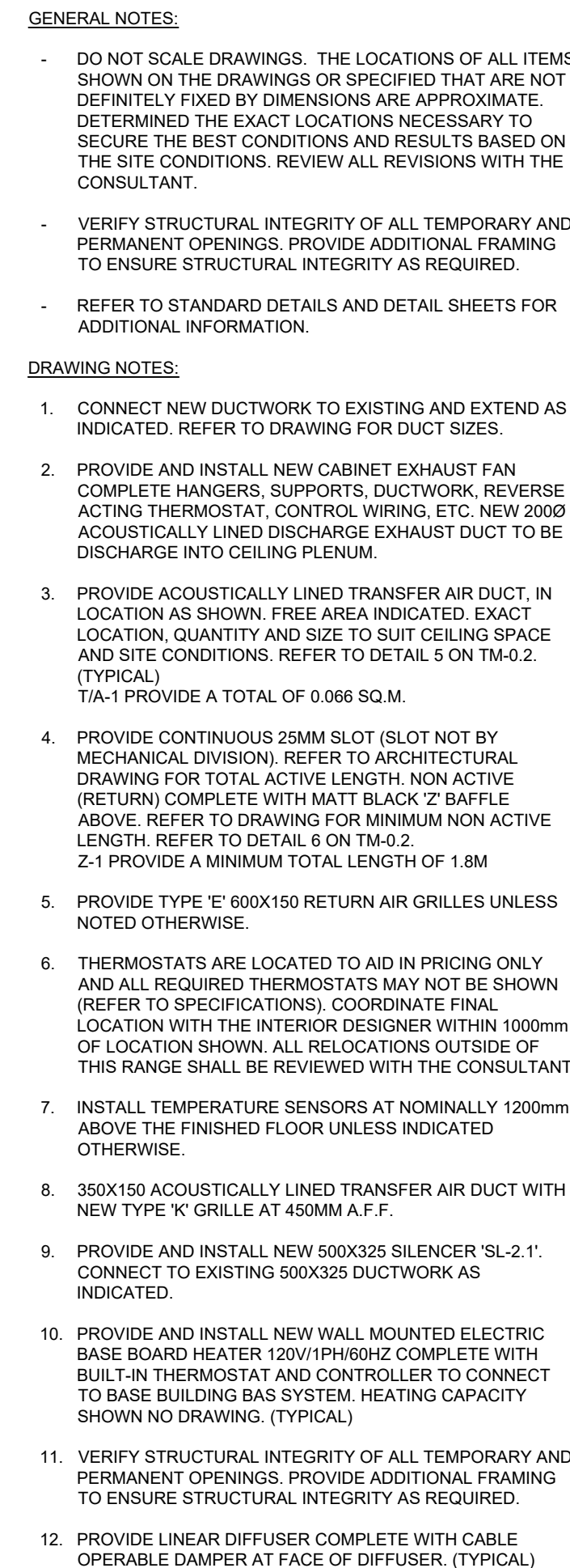
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Checked By: AV/RC

Sheet No.:

TM-2.1.3

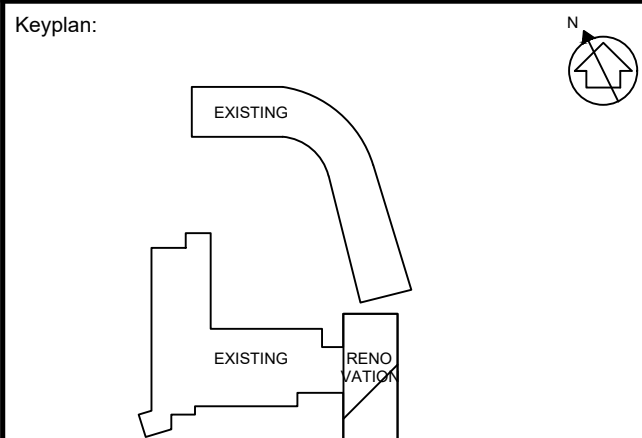
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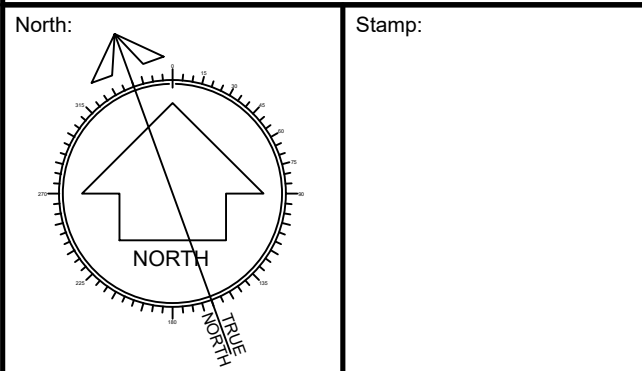


Consultant:



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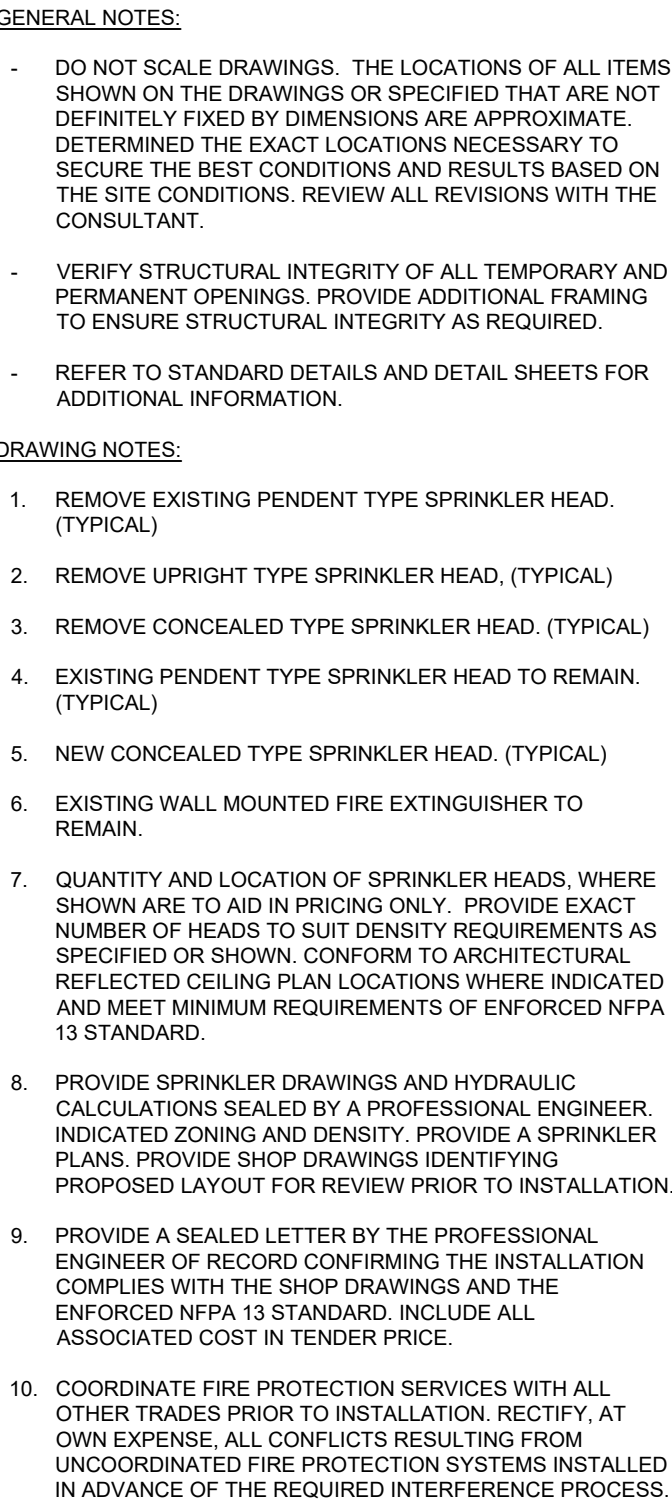


Client:	
VICTORIA UNIVERSITY	
Project:	Proj. No.: 23501.003.M.001
GOLDRING STUDENT CENTRE RENEWAL	
150 Charles St W, Toronto, ON M5S 1K9	

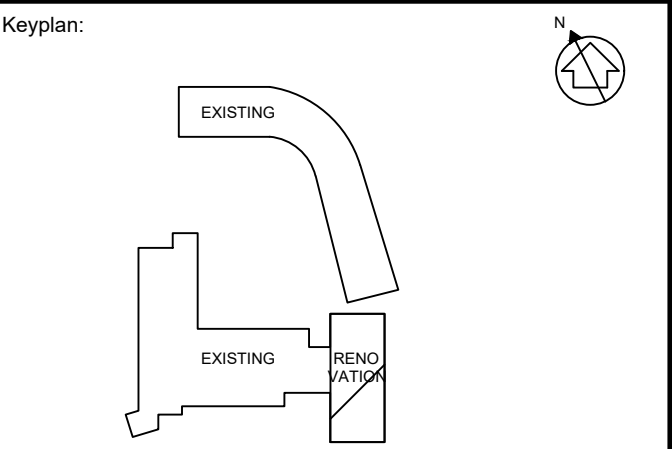
Title: 2ND FLOOR - HVAC LAYOUT

Scale: 1:100	Sheet No.:
Drawn By: JL	TM-2.3
Checked By: AV/RC	


TM-2.3



PROJECT CONTACT	
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EMAIL:	jonathan.luong@smithandandersen.com
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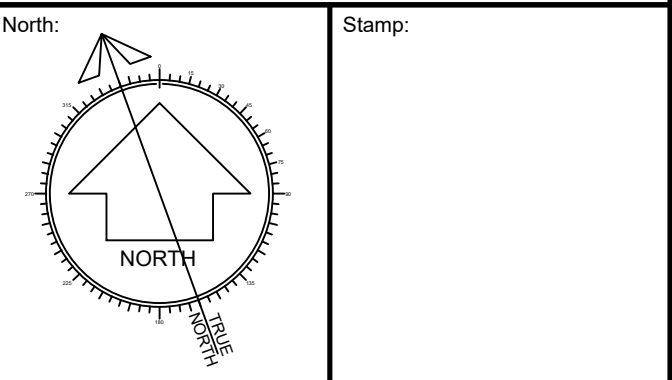


Consultant:



Smith + Andersen

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Client:

VICTORIA UNIVERSITY

Project: Proj. No.: 23501.003.M.001

**GOLDRED STUDENT CENTRE
RENEWAL**

150 Charles St W, Toronto, ON M5S 1K9

Title:

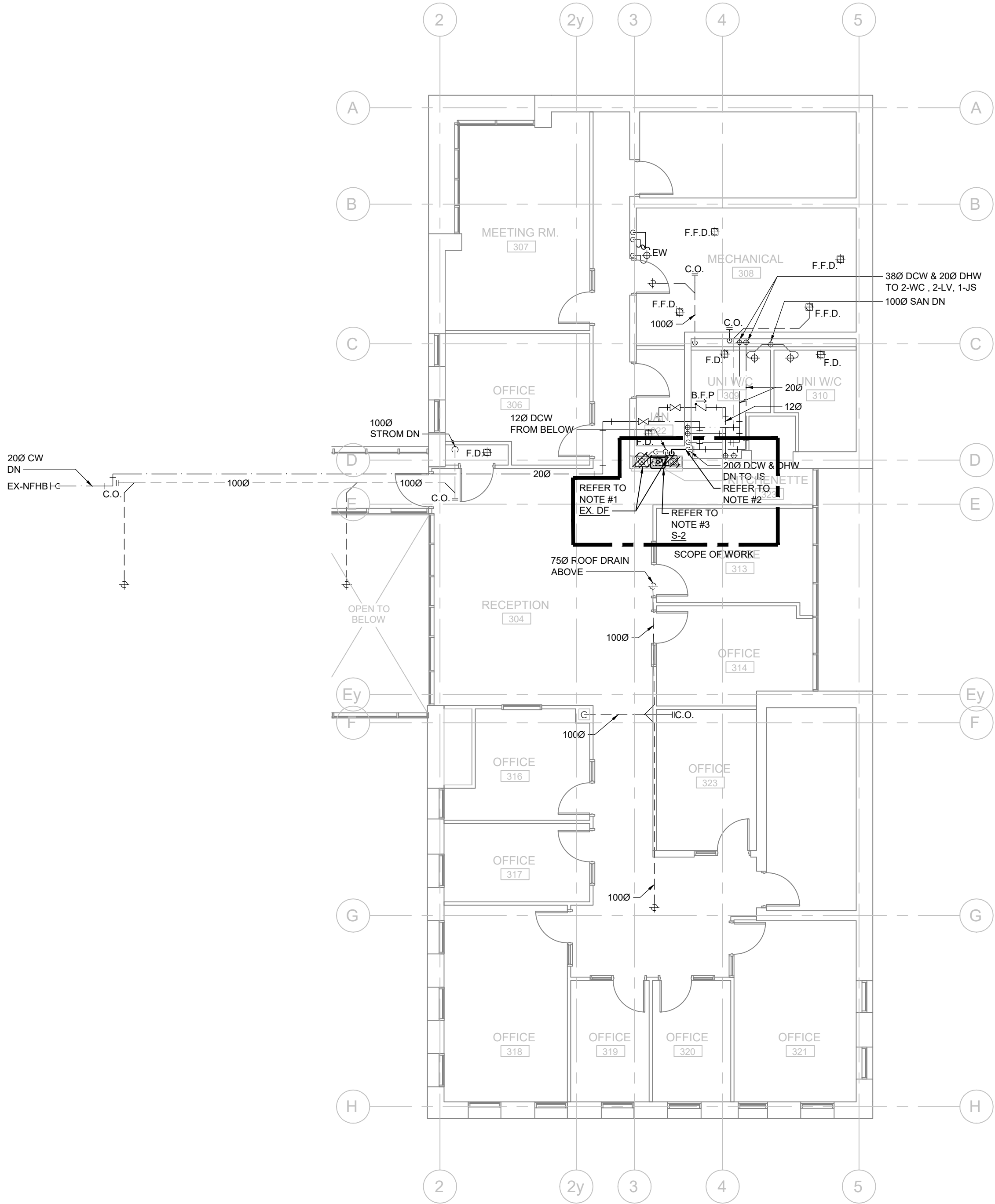
2ND FLOOR - FIRE
PROTECTION LAYOUT

Scale: 1:100	Sheet No.: TM-2.4
Drawn By: JL	
Checked By: AV/RC	

TM-2.4

- GENERAL NOTES:
- DO NOT SCALE DRAWINGS. THE LOCATIONS OF ALL ITEMS SHOWN ON THE DRAWINGS OR SPECIFIED THAT ARE NOT DEFINITELY FIXED BY DIMENSIONS ARE APPROXIMATE. DETERMINED THE EXACT LOCATIONS NECESSARY TO SECURE THE BEST CONDITIONS AND RESULTS BASED ON THE SITE CONDITIONS. REVIEW ALL REVISIONS WITH THE CONSULTANT.
 - VERIFY STRUCTURAL INTEGRITY OF ALL TEMPORARY AND PERMANENT OPENINGS. PROVIDE ADDITIONAL FRAMING TO ENSURE STRUCTURAL INTEGRITY AS REQUIRED.
 - REFER TO STANDARD DETAILS AND DETAIL SHEETS FOR ADDITIONAL INFORMATION.

- DRAWING NOTES:
- CAREFULLY REMOVE EXISTING DRINKING FOUNTAIN AND RETURN TO THE UNIVERSITY. TEMPORARILY CAP ALL EXISTING ASSOCIATED SERVICES AT WALL FOR FUTURE USE.
 - CONNECT NEW 120 DOMESTIC HOT WATER LINE TO EXISTING 200 DOMESTIC HOT WATER LINE AND EXTEND AS INDICATED. ALLOW FOR FREEZING OR HOT TAPPING TO COMPLETE CONNECTION.
 - 120 DOMESTIC HOT WATER LINE TO SINK. ALTER EXISTING DOMESTIC COLD WATER, VENT AND SANITARY DRAINAGE SERVICES TO SUIT INSTALLATION OF SINK AS REQUIRED.



MORIYAMA & TESHIMA **ARCHITECTS**
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117 George Street, Toronto, Ontario Canada M5A 2N4 416-925-4484
109 Murray Street, Unit 3 Ottawa, Ontario Canada K1N 5M5 613-562-2905

ISSUES/ REVISIONS

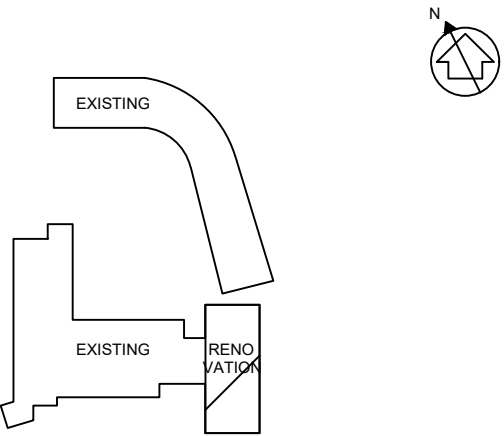
No.	Issue	Date
01	ISSUED FOR PERMIT	2023-12-04
02	ISSUED FOR REVIEW	2023-12-19
03	ISSUED FOR REVIEW	2024-01-12
04	ISSUED FOR TENDER	2024-02-02
05	ISSUED FOR ADD-M-02	2024-02-27
06	ISSUED FOR CONSTRUCTION	2024-03-26

PROJECT CONTACT

NAME: JONATHAN LUONG
TEL: 437-880-5412
EMAIL: jonathan.luong@smithandandersen.com

THIS DRAWING SHALL BE READ IN CONJUNCTION WITH MECHANICAL SPECIFICATION SUBMITTED FOR THIS PROJECT.

Keyplan:

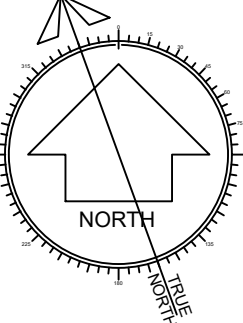


Consultant:



Smith + Andersen
1105 - 100 Sheppard Ave. East, Toronto, ON, M2N 6N5
416 487 8151 F 416 487 9104 smithandandersen.com

North:



Stamp:

Client:

VICTORIA UNIVERSITY

Project: Proj. No.: 23501.003.M.001

GOLDRING STUDENT CENTRE
RENEWAL

150 Charles St W, Toronto, ON M5S 1K9

Title:
3RD FLOOR - PLUMBING &
DRAINAGE LAYOUT

Scale: 1:100
Drawn By: JL
Checked By: AV/RC

Sheet No.:

TM-3.2