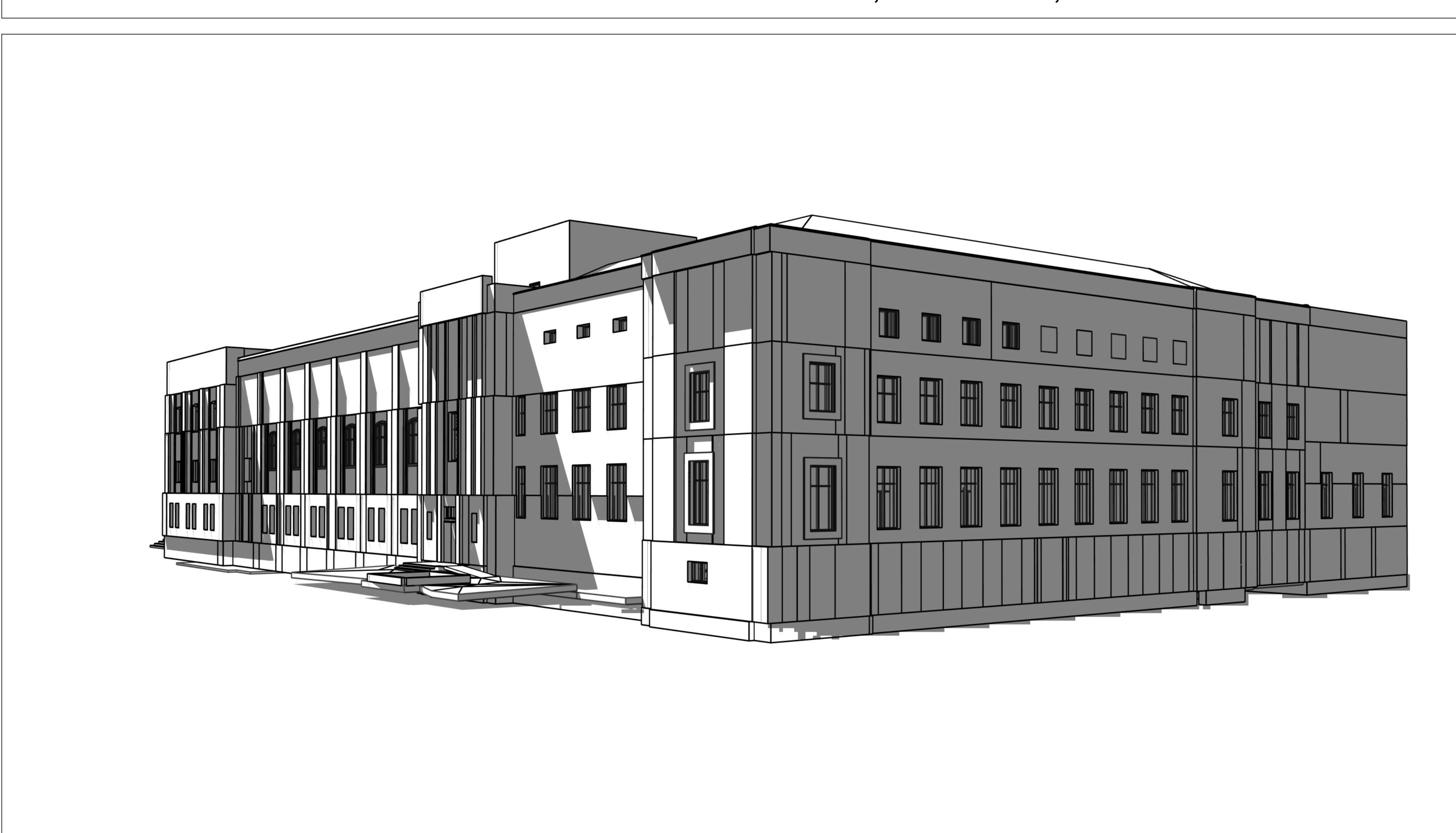
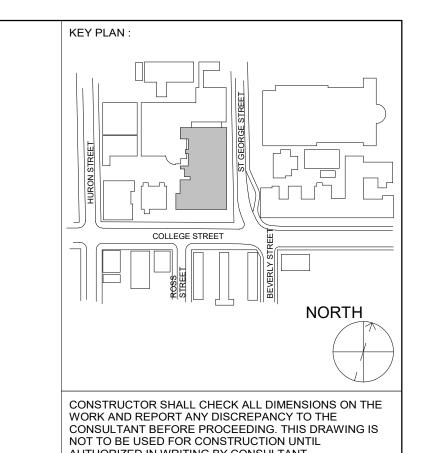
HEALTH AND WELLNESS CENTRE RENOVATION AT KOFFLER

214 COLLEGE ST, TORONTO, ON M5T 3A1





SHEET No.	SHEET NAME	SCALE
TM-0.0	COVER & MECHANICAL DRAWING LIST	N.T.S.
TM-0.1	MECHANICAL LEGENDS	N.T.S.
TM-0.2	MECHANICAL STANDARD DETAILS	N.T.S.
TM-0.3	KITCHEN HOOD DETAILS	N.T.S.
TM-0.4	KITCHEN HOOD DETAILS	N.T.S.
TM-0.5	KITCHEN ECOLOGY UNIT DETAILS	N.T.S.
TM-0.6	KITCHEN ECOLOGY UNIT DETAILS	N.T.S.
TM-0.7	KITCHEN ECOLOGY UNIT DETAILS	N.T.S.
TM-0.8	CONTROLS DIAGRAM AND SEQUENCES	N.T.S.
TM-0.9	CONTROLS DIAGRAMS AND SEQUENCES	N.T.S.
TM-0.10	BAS ARCHITECTURE DIAGRAM	N.T.S.
TM-B.2	BASEMENT - PLUMBING AND PIPING LAYOUT	1:100
TM-1.2	GROUND FLOOR - PLUMBING AND PIPING LAYOUT	1:50
TM-2.2.1	SECOND FLOOR - PLUMBING AND PIPING DEMOLITION LAYOUT	1:100
TM-2.2	SECOND FLOOR - PLUMBING AND PIPING LAYOUT	1:100
TM-3.2.1	THIRD FLOOR - PLUMBING AND PIPING DEMOLITION LAYOUT	1:100
TM-3.2	THIRD FLOOR - PLUMBING AND PIPING LAYOUT	1:100
TM-1.1	GROUND FLOOR - H.V.A.C. DEMOLITION LAYOUT	1:100
TM-1.3	GROUND FLOOR - H.V.A.C. LAYOUT	1:100
TM-2.1	SECOND FLOOR - H.V.A.C. DEMOLITION LAYOUT	1:100
TM-2.3	SECOND FLOOR - H.V.A.C. LAYOUT	1:100
TM-3.1	THIRD FLOOR - H.V.A.C. DEMOLITION LAYOUT	1:100
TM-3.3	THIRD FLOOR - H.V.A.C. LAYOUT	1:100
TM-R.3	ROOF - MECHANICAL LAYOUT	1:100
TM-1.4.1	GROUND FLOOR - FIRE PROTECTION DEMOLITION LAYOUT	1:100
TM-1.4	GROUND FLOOR - FIRE PROTECTION LAYOUT	1:100
TM-2.4.1	SECOND FLOOR - FIRE PROTECTION DEMOLITION LAYOUT	1:100
TM-2.4	SECOND FLOOR - FIRE PROTECTION LAYOUT	1:100
TM-3.4.1	THIRD FLOOR - FIRE PROTECTION DEMOLITION LAYOUT	1:100
TM-3.4	THIRD FLOOR - FIRE PROTECTION LAYOUT	1:100



		REVISION
NO.	DATE	DESCRIPTION
1	2024-10-04	ISSUED FOR 50% REVIEW
2	2024-11-14	ISSUED FOR PERMIT
3	2024-12-04	ISSUED FOR F&S REVIEW
4	2025-01-24	ISSUED FOR PEER REVIEW
5	2025-01-31	ISSUED FOR BID
6	2025-04-30	ISSUED FOR CONSTRUCTION

THIS DRAWING IS "ISSUED FOR CONSTRUCTION" AND IS CONSIDERED COMPLEMENTARY TO THE CONTRACT DOCUMENTS. TO THE BEST OF OUR KNOWLEDGE IT IS AN ACCURATE REPRESENTATION OF DOCUMENTED REVISIONS. IN THE CASE OF ANY DISCREPANCY, OMISSION OR CONFLICT BETWEEN THIS "ISSUED FOR CONSTRUCTION" DOCUMENT AND THE CONTRACT DOCUMENTS, THE CONTRACTOR IS TO PROMPTLY BRING IT TO THE ATTENTION OF THE CONSULTANT.



ENFORM Architects Inc. 128A Sterling Road, Suite 302B Toronto, Ontario, Canada M6R 2B7 t: 647-948-7523 www.enformarchitects.com



HEALTH AND WELLNESS CENTRE RENOVATION AT KOFFLER

214 COLLEGE ST, TORONTO, ON M5T 3A1 SHEET CONTENTS: **COVER & MECHANICAL**

DRAWING LIST

PROJECT NUMBER	:	
21590.003		
DRAWING SCALE:		
N.T.S.		
DRAWN BY :	CHECKED BY:	DAT
AS	RC/DC	20

TM-0.0

XX YY — POINT	TYPE	XX POINT AI	BBREVIATION	
DINT TYPE	DESCRIPITION	POINT ABBREVIATION	DESCRIPITION	
	ANALOG INPUT	HTWE	HEAT WHEEL ENABLE	
	ANALOG OUTPUT	HTWLAT	HEAT WHEEL LEAVING AIR TEMPERATURE	
	BINARY INPUT	HTWVSD	HEAT WHEEL VARIABLE SPEED DRIVE	
	BINARY OUTPUT PULSE INPUT	HUME	HUMIDIFIER ENABLE HUMIDIFIER VALVE	
XX — POINT	ABBREVIATION	HWP	HOT WATER PUMP	
YY		HWR	HOT WATER RETURN	
DINT ABBREVIATION	DESCRIPITION	HWRT HWRV	HOT WATER RETURN TEMPERATURE	
	AIR FLOW	HWS	HOT WATER RETURN VALVE HOT WATER SUPPLY	
5	AIR FLOW STATION	HWST	HOT WATER SUPPLY TEMPERATURE	
PD	BYPASS DAMPER	HWSTSP	HOT WATER SUPPLY TEMPERATURE SET-POINT	
V AF	COOLING COIL VALVE COLD DECK AIR FLOW	LTHWDP	LEAVING AIR TEMPERATURE LOW TEMPERATURE HEATING WATER DIFFERENTIAL PRESSURE	
ASP	COLD DECK AIR STATIC PRESSURE	LTHWPXXEN	LOW TEMPERATURE HEATING PUMP XX	
AT	COLD DECK DAMPER	LTHWPXXFB	LOW TEMPERATURE HEATING PUMP XX FEED BACK	
D WDP	COLD DECK DAMPER CHILLED WATER DIFFERENTIAL PRESSURE	LTHWPXXVFD OAD	LOW TEMPERATURE HEATING PUMP XX VARIABLE FREQUENCY DRIVE OUTSIDE AIR DAMPER	
XXAMP	CHILLER XX AMPS	OADES	OUTSIDE AIR DAMPER END SWITCH	
XXCHWET	CHILLER XX CHILLED WATER ENTERING TEMPERATURE	PCHWST	PRIMARY CHILLED WATER SUPPLY TEMPERATURE	
XXCHWF XXCHWLT	CHILLER XX CHILLED WATER FLOW CHILLER XX WATER LEAVING TEMPERATURE	PFPD	PRE-FILTER PRESSURE DIFFERENTIAL PRE-HEAT COIL VALVE	
XXCHWSTSP	CHILLER XX CHILLED WATER SUPPLY TEMPERATURE SET POINT	PP	PRIMARY PUMP	
XXCHWV	CHILLER XX CHILLED WATER VALVE	PPXXEN	PRIMARY PUMP XX ENABLE	
XXCMW	CHILLER XX CONDENSER WATER VALVE CHILLER XX CONDENSER WATER CONTROL VALVE	PPXXFB PPXXVFD	PRIMARY PUMP XX FEED BACK PRIMARY PUMP XX VARIABLE FREQUENCY DRIVE	
XXCWET	CHILLER XX CONDENSER WATER ENTERING TEMPERATURE	RADV	RADIANT VALVE	
XXCWLT	CHILLER XX CONDENSER WATER LEAVING TEMPERATURE	RAF	RETURN AIR FLOW	
XXCWV XXEN	CHILLER XX CONDENSER WATER VALVE CHILLER XX ENABLE	RAH RAT	RETURN AIR HUMIDITY RETURN AIR TEMPERATURE	
XXLHWISOV	CHILLER XX HEATING WATER ISOLATION VALVE	RHV	REHEAT VALVE	
XXLHWRT	CHILLER XX LOW HEATING WATER RETURN TEMPERATURE	RVLV	REVERSING VALVE	
XXLHWST MP	CHILLER XX LOW HEATING WATER SUPPLY TEMPERATURE COMPRESSOR	SAH	SUPPLY AIR TEMPERATURE SUPPLY AIR HUMIDITY	
HWT	DECOUPLER CHILLED WATER TEMPERATURE	schwf	SECONDARY CHILLED WATER FLOW	
D	EXHAUST AIR DAMPER	SCHWRT	SECONDARY CHILLED WATER RETURN TEMPERATURE	
DES T	EXHAUST AIR DAMPER END SWITCH ENTERING AIR TEMPERATURE	SCHWST	SECONDARY CHILLED WATER SUPPLY TEMPERATURE SERIES FAN	
SS	EXHAUST FAN START/STOP	SFSS	SUPPLY FAN START/STOP	
ST	EXHAUST FAN STATUS	SFST	SUPPLY FAN STATUS	
PD	FIRESTAT	SP SPCT	SECONDARY PUMP	
-U	FINAL FILTER PRESSURE DIFFERENTIAL FREEZESTAT	SPXXEN	SPACE TEMPERATURE SECONDARY PUMP XX ENABLE	
L	GENERAL ALARM	SPXXFB	SECONDARY PUMP XX FEED BACK	
R	GLYCOL RETURN	SPXXVFD	SECONDARY PUMP XX VARIABLE FREQUENCY DRIVE	
YPX	GLYCOL SUPPLY GLYCOL PUMP	VAVD ZD	VAV DAMPER ZONE DAMPER	
V	HEATING COIL VALVE			
AF D	HOT DECK DAMPER			
SAH	HOT DECK SUPPLY AIR HUMIDIFIER			
	HIGH PRESSURE SWITCH			
DINT LEGEND				

11 NOT USED

12 TM-0.1 NOT USED

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
Image: Control of the	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	CTS	CROSSTALK SILENCER
	RETURN OR EXHAUST DUCT DOWN OR FROM BELOW		DUCT WITH MINIMUM CLEARANCE FIRE RATED ENCLOSURE
	ROUND DUCT UP OR FROM ABOVE	F/D	DUCT WITH SLEEVE, INSULATION, AND DAMPER
	ROUND DUCT DOWN OR FROM BELOW	CAP	CAPPED CONNECTION
	ACOUSTIC LINED DUCT		
##	FLEXIBLE CONNECTION	RISE UP ——	RISE IN DUCT
(C)	SQUARE ELBOW DUCT WITH TURNING VANES	SLOPE DN	DROP IN DUCT
	RADIUS ELBOW WITH TURNING VANES	■ SB	SOUND BAFFLE
	- AXIAL FAN / INLINE FAN MIXED FLOW OR CENTRIFUGAL		PROPELLER FAN WITH PROTECTIVE SCREEN
DIFFUSER, GRILLE DR REGISTER TYP MPERIAL: CFM, [IN METRIC: L/s, [mm]	P4 150ø SIZE (mm)	LINEAR SLOT DIFFUSER ————————————————————————————————————	IMPERIAL: CFM, [INS METRIC: L/s, [mm] 300 NECK SIZE AND LINEAR DIFFUSER LENGTH (mm
	ROUND SUPPLY DIFFUSER		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
$\boxed{\hspace{1cm}}$	SQUARE DIFFUSER		
	DIFFUSER WITH BLANK-OFF PORTION (QTY SHOWN)		
NOTE: NOT ALL S	YMBOLS APPLY, REFER TO FLOOR PLANS AND DRA	AWINGS	

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
W	POWER REQUIREMENT FOR ELECTRIC TRACING	PE	PNEUMATIC-ELECTRIC
(33333333)	ELECTRIC PIPE TRACING FOR SINGLE LINE PIPES	С	CONTROLLER
	ELECTRIC PIPE TRACING FOR DOUBLE LINE PIPES	TS	TEMPERATURE SENSOR
MCC	MOTOR CONTROL CENTRE	HS	HUMIDITY SENSOR
DS DS	DISCONNECT SWITCH		AIR FLOW MONITORING STATION
	SWITCH (MANUAL STARTER)	SP	STATIC
НОА	HAND-OFF AUTO	VFD	VARIABLE FREQUENCY DRIVE
FZ	LOW TEMPERATURE THERMOSTAT	СО	CARBON MONOXIDE SENSOR
FS	HIGH TEMPERATURE THERMOSTAT	RS	REFRIGERANT SENSOR
T	ELECTRIC/LOW VOLTAGE THERMOSTAT/SENSOR	CO2	CARBON DIOXIDE SENSOR
T	PNEUMATIC THERMOSTAT	NO2	NITROGEN DIOXIDE SENSOR
Fs	FLOW SWITCH	AFS	AIR FLOW STATION
S	SPEED SWITCH	PS	PRESSURE SENSOR
Т	THERMOSTAT WITH LOCKABLE TAMPER GUARD	BTU	BTU METER

8 ELECTRICAL AND CONTROLS SYMBOLS AND ABBREVIATIONS (012.11)	

9 NOT USED

	ISOLATION VALVE (REFER TO		
\bowtie	SPECIFICATION FOR SPEIFIC TYPE AS REQUIRED)	_=	PIPE GUIDE (REFER TO SPECIFICATIONS
\bowtie	GLOBE VALVE		PIPE SLEEVE
ΙФΙ	BALL VALVE		ANCHOR
\square	LOCKSHIELD VALVE		STRAINER
FBV	FLOW BALANCING VALVE		UNION
PIFBV	PRESSURE INDEPENDENT FLOW BALANCING VALVE		FLANGE FITTING
\bigvee	PLUG VALVE		ECCENTRIC FITTING
PRV	NATURAL PRESSURE REDUCING VALVE ASSEMBLY		CONCENTRIC FITTING
	CHECK VALVE		PRESSURE GAUGE
<u>s</u> =	SOLENOID VALVE	T T	THERMOMETER
SRV	SAFETY RELIEF VALVE		PRESSURE GAUGE COCK ASSEMBLY
FMS	FLOW METERING STATION	TW TW	THERMOMETER WELL
ВР	BACKFLOW PREVENTOR	EJ	EXPANSION JOINT
M	ANGLE VALVE	MV	MANUAL AIR VENT
x	BUTTERFLY VALVE	AV	AUTOMATIC AIR VENT
<u> </u>	2-WAY BUTTERFLY VALVE	S AS	AIR SEPARATOR
	TEMPERED MIXING WALVE	SG	SIGHT GLASS
	TEMPERED MIXING VALVE	-55	PUMP
	FLEXIBLE JOINT	_sskss	DOMESTIC WATER PRV STATION
VB	VACUUM BREAKER		
	BACK WATER VALVE	WHA	WATER HAMMER ARRESTOR

	4 VALVE AND COMPONENT SYMBOLS AND ABBREVIATIONS
\TM	1-0.1) (012.06)

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
HWS	HEATING WATER SUPPLY	FOS—	- FUEL OIL SUPPLY
— HWR — —	HEATING WATER RETURN	— — FOR — —	- FUEL OIL RETURN
—CHS——	CHILLED WATER SUPPLY	EFOV	- EMERGENCY FUEL OIL VENT
— CHR———	CHILLED WATER RETURN	FOV	- FUEL OIL VENT
—GLS——	GLYCOL SUPPLY	FOF—	- FUEL OIL FILL
— GLR———	GLYCOL RETURN	PC	PUMPED STEAM CONDESATE
—GLHS——	GLYCOL HEATING SUPPLY	RS-	REFRIGERATION SUCTION
—GLHR———	GLYCOL HEATING RETURN	— — RL — —	REFRIGERATION LIQUID
—GLCS——	GLYCOL COOLING SUPPLY	RHG	REFRIGERATION HOT GAS
—GLCR———	GLYCOL COOLING RETURN	DTS	DUAL TEMPERATURE SUPPLY
CDS	CONDENSER WATER SUPPLY	DTR	DUAL TEMPERATURE RETURN
— CDR———	CONDENSER WATER RETURN		BUCKET TYPE STEAM TRAP
LPS-	LOW PRESSURE STEAM		FLOAT AND THERMOSTAT TYPE STEAM TRAP
MPS	MEDIUM PRESSURE STEAM	SVB	STEAM VACUUM BREAKER
—HPS——	HIGH PRESSURE STEAM		REFRIGERATION THERMAL EXPANSION VALVE
— LPC — —	LOW PRESSURE CONDENSATE	SLV	REFRIGERATION SOLENOID LIQUID VALVE
— MPC———	MEDIUM PRESSURE CONDENSATE	RFD	REFRIGERATION FILTER DRYER
— HPC	HIGH PRESSURE CONDENSATE		6 WAY CONTROL VALVE ELECTRIC
PICV	PRESSURE INDEPENDENT CONTROL VALVE		
S-X-X-	- 2 WAY CONTROL VALVE		6 WAY CONTROL VALVE
	3 WAY CONTROL VALVE	CV CV	CONTROL VALVE (WHERE SYMBOL NOT SHOWN)

5 MECHANICAL DIDING SYMBOLS AND ARRDEVIATIONS

6 AIR HANDLING SYMBOLS AND ABBREVIATIONS (012.09)

	DESCRIPTION	SYMBOL	DESCRIPTION
F/D	FIRE DAMPER	SMD	SMOKE DAMPER
MOD	MOTOR OPERATED DAMPER	PSD	POSITIVE SEAL DAMPER
MD	MANUAL DAMPER	BDD	GRAVITY OR BACKDRAFT DAMPER
BD	BALANCING DAMPER		VOLUME EXTRACTOR
CSF/D	COMBINATION SMOKE AND FIRE DAMPER	RBD	REMOTE OPERATED BALANCING DAMPER
N. PRIMARY FLO N POWERED V OX TYPE	'	i)	RHC-REHEAT COIL CAPACITY (KW) PERIAL: CFM, [INS.] ETRIC: L/s, [mm]
	VAV BOX (VARIABLE AIR VOLUME)		FAN POWERED BOX C/W RETURN AIR SILENCER OR ACOUSTICALLY LINED RETURN AIR
	VAV BOX (VARIABLE AIR VOLUME) VAV BOX WITH ATTENUATOR		SILENCER OR ACOUSTICALLY LINED
	, , ,		SILENCER OR ACOUSTICALLY LINED RETURN AIR FAN POWERED BOX C/W RETURN AIR SILENCER OR ACOUSTICALLY LINED
	VAV BOX WITH ATTENUATOR		SILENCER OR ACOUSTICALLY LINED RETURN AIR FAN POWERED BOX C/W RETURN AIR SILENCER OR ACOUSTICALLY LINED RETURN AIR WITH REHEAT COIL
	VAV BOX WITH ATTENUATOR VAV BOX WITH REHEAT COIL VAV BOX WITH REHEAT COIL AND		SILENCER OR ACOUSTICALLY LINED RETURN AIR FAN POWERED BOX C/W RETURN AIR SILENCER OR ACOUSTICALLY LINED RETURN AIR WITH REHEAT COIL INDUCTION VAV BOX
EATING ELEMEN	VAV BOX WITH ATTENUATOR VAV BOX WITH REHEAT COIL VAV BOX WITH REHEAT COIL AND ATTENUATOR NT TAG ICLOSURE TYPE ————————————————————————————————————		SILENCER OR ACOUSTICALLY LINED RETURN AIR FAN POWERED BOX C/W RETURN AIR SILENCER OR ACOUSTICALLY LINED RETURN AIR WITH REHEAT COIL INDUCTION VAV BOX PRESSURE INDEPENDENT AIR VALVE (LAB)
EATING ELEMEN	VAV BOX WITH ATTENUATOR VAV BOX WITH REHEAT COIL VAV BOX WITH REHEAT COIL AND ATTENUATOR NT TAG ICLOSURE TYPE ————————————————————————————————————	G CAPACITY	SILENCER OR ACOUSTICALLY LINED RETURN AIR FAN POWERED BOX C/W RETURN AIR SILENCER OR ACOUSTICALLY LINED RETURN AIR WITH REHEAT COIL INDUCTION VAV BOX PRESSURE INDEPENDENT AIR VALVE (LAB)
EATING ELEMEN	VAV BOX WITH ATTENUATOR VAV BOX WITH REHEAT COIL VAV BOX WITH REHEAT COIL AND ATTENUATOR NT TAG ICLOSURE TYPE A 1200W HEATING 1944 ACTIVE B	S CAPACITY ELEMENT LENGTH	SILENCER OR ACOUSTICALLY LINED RETURN AIR FAN POWERED BOX C/W RETURN AIR SILENCER OR ACOUSTICALLY LINED RETURN AIR WITH REHEAT COIL INDUCTION VAV BOX PRESSURE INDEPENDENT AIR VALVE (LAB) TERMINAL UNIT (SEE NOTE 2)

	SYMBOL DESCRIPTION		SYMBOL	DESCRIPTION	
	6 M-01	—DETAIL NUMBER —DRAWING NUMBER	SECTION NUMBER M-01 DRAWING NUMBER		
	4	REVISION NUMBER		REVISION BUBBLE	
	↓_ OR →	ELBOWS		PIPING SERVICE CONTINUES	
		TEE	55	REFER TO STANDARD DETAIL DRAWINGS FOR ADDITIONAL REQUIREMENTS OF EQUIPMENT NOTED	
		BRANCH OFF BOTTOM OF MAIN		VENT PIPE REDUCER	
		BRANCH OFF TOP OF MAIN	CFM	AIR QUANTITY CFM (L/s)	
	→	DIRECTION OF FLOW			

	BRANCH OFF TOP OF MAIN	(CFM)	AIR QUANTITY CFM (L/s)
→	DIRECTION OF FLOW		
NOTE: EXISTING	EQUIPMENT, PIPING, VALVES, DUCTWORK SHOWN LIC	GHT TO REMAIN.	
	EXISTING DUCT, FLEX DUCT, AND AIR SUPPLY TO REMAIN	EX ©	EXISTING CONCEALED SPRINKLER HEAD & PIPING TO REMAIN
		EX 👄	EXISTING PENDANT SPRINKLER HEAD & PIPING TO REMAIN
TTS	EXISTING ELECTRIC/PHEUMATIC THERMOSTAT/TEMPERATURE SENSOR AND SPEED CONTROL SWITCH TO REMAIN	EX Ç	EXISTING SIDEWALL OR WINDOW SPRINKLER HEAD & PIPING TO REMAIN
EX ()	EXISTING UPRIGHT SPRINKLER HEAD & PIPING TO REMAIN		
NOTE: EXISTING	EQUIPMENT, PIPING, VALVES, DUCTWORK SHOWN HA	ATCHED TO BE REMO	VED AND/OR RELOCATED.
	EXISTING DUCT, FLEX DUCT, AND AIR SUPPLY TO BE REMOVED	EX 🙀	EXISTING CONCEALED SPRINKLER HEAD & PIPING TO BE REMOVED/RELOCATED
	EXISTING ELECTRIC/PHEUMATIC	EX 🌲	EXISTING PENDANT SPRINKLER HEAD & PIPING TO BE REMOVED/RELOCATED
	EQUIPMENT, PIPING, VALVES, DUCTWORK SHOWN HA EXISTING DUCT, FLEX DUCT, AND AIR SUPPLY TO BE REMOVED	EX (b)	EXISTING CONCEALED SPRINKLER HE. PIPING TO BE REMOVED/RELOCATED EXISTING PENDANT SPRINKLER HEAD

EXISTING SIDEWALL OR WINDOW SPRINKLER HEAD & PIPING TO BE REMOVED/RELOCATED

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

REMOVED/RELOCATED

THERMOSTAT / TEMPERATURE SENSOR AND SPEED CONTROL SWITCH TO BE

EXISTING UPRIGHT SPRINKLER HEAD & PIPING TO BE REMOVED/RELOCATED

1	GENERAL SYMBOLS AND ABBREVIATIONS
TM-0.1	(012.13)

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION		
⊕ FD	FLOOR DRAIN, SIZE AS NOTED. REFER TO SPECIFICATION FOR TYPES		DOMESTIC COLD WATER (DOM. COLD WATER) (DCW)		
∯ FFD	FUNNEL FLOOR DRAIN, SIZE AS NOTED. REFER TO SPECIFICATION FOR TYPES		DOMESTIC HOT WATER (DOM. HOT WATER) (DHW)		
oco	UPTURNED CLEANOUT		DOMESTIC HOT WATER RECIRCULATION (DOM. HOT WATER RECIRC.) (DHWR)		
——II co	HORIZONTAL CLEANOUT	Т	TEMPERED WATER		
₩	FLOOR DRAIN FROM ABOVE WITH TRAP	G	NATURAL GAS		
₩	FUNNEL FLOOR DRAIN FROM ABOVE WITH TRAP	GV	NATURAL GAS VENT		
●	WATER CLOSET AS NOTED, REFER TO SPECIFICATION FOR TYPES	V	VENT		
U- U-	URINAL	———SAN——	SANITARY ABOVE GRADE OR FLOOR		
CS- CS-	SINGLE COMPARTMENT KITCHEN SINK	SAN(B)	SANITARY BELOW GRADE OR FLOOR		
cs- cs-	DOUBLE COMPARTMENT SINK	\longrightarrow	GATE OR ISOLATION VALVE (REFER TO SPECIFICATION)		
Ş	WALL HUNG LAVATORY	——><	GLOBE VALVE		
υ www.	MOP SINK		BALL VALVE		
we w	DRINKING FOUNTAIN	•	PENDANT SPRINKLER HEAD		
SP	WET SPRINKLER LINE	● DP	DRY PENDANT SPRINKLER HEAD		
—DSP——	DRY SPRINKLER LINE	0	UPRIGHT SPRINKLER HEAD		
FHC-x	FIRE HOSE CABINET AND TYPE	•	CONCEALED SPRINKLER HEAD		
SVC-x	SPRINKLER SHUT-OFF VALVE CABINET AND TYPE	O NF	NON-FREEZE SPRINKLER HEAD		
FE-x	FIRE EXTINGUISHER AND TYPE	O HT	HIGH TEMPERATURE SPRINKLER HEAD		
C-x	FIRE EXTINGUISHER CABINER AND TYPE	0*	CHEMICAL SPRINKLER HEAD		
FR []	FIRE REEL AND TYPE	•	SIDEWALL SPRINKLER HEAD		
WM	WATER METER	∢ ^w	WINDOW SPRINKLER HEAD		
BFP BACK FLOW PREVENTOR		NOTE: NOT ALL SYMBOLS APPLY, REFER TO FLOOR PLANS AND DRAWINGS			

(2) GENERAL SYMBOLS AND ABBREVIATIONS (012.14)

TM-0.1 PLUMBING SYMBOLS AND ABBREVIATIONS (012.04)

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION		
ARE D	R TO SPECIFICATION FOR DETAILS AND ADDITIONAL INGRAMMATIC IN NATURE, REFER TO SPECIFICATION RELANS.				
• WC-	WATER CLOSET	ВТ	BATHTUB		
] U-	URINAL	∩ <u>\$</u> -∩ sH-	SHOWER		
<u>ئ</u> ل-	COUNTERTOP LAVATORY	BF- DF-	BOTTLE FILLER DRINKING FOUNTAIN		
ها کې	WALL HUNG LAVATORY	S EW	EMERGENCY EYEWASH		
S-	SINGLE COMPARTMENT SINK	C EW/SH	EMERGENCY EYEWASH / SHOWER		
JS-	JANITOR SINK	S ESH	EMERGENCY SHOWER		
\$ -	DOUBLE COMPARTMENT SINK	FT FT	FLUSH TANK		
NP	NON-POTABLE (IF SUFFIX IS APPENDED TO A DOMESTIC WATER SYSTEM, I.E. DCW-NP)	н	HIGH TEMPERATURE (IF PREFIX IS APPENDED TO A DOMESTIC HOT WATERSYSTEM, I.E. HDHW)		
	DOMESTIC COLD WATER (DOM. COLD WATER) (DCW)	RRW-	RECLAIM RAINWATER		
(B)	BURIED DOMESTIC COLD WATER (DOM. COLD WATER) (DCW)	G	NATURAL GAS		
	DOMESTIC HOT WATER (DOM. HOT WATER) (DHW)	GV	NATURAL GAS VENT		
	DOMESTIC HOT WATER RECIRCULATION (DOM. HOT WATER RECIRC.) (DHWR)	——Э- НВ	HOSE BIBB		
т	TEMPERED WATER	→ WH (NFWH)	WALL HYDRANT (OR NON FREEZE WALL HYDRANT)		
- WM	WATER METER	[C기 GH (NFGH)	GROUND HYDRANT (OR NON FREEZE GROUND HYDRANT)		
Ş— <u>†</u>	TEMPERED MIXING VALVE ASSEMBLY	[C] NFPH	NON FREEZE POST HYDRANT		
5—1					
5-7	TEMPERED MIXING VALVE CABINET	H/C 5————————————————————————————————————	HOT AND COLD HOSE BIBB		
TE NOT ALL OV	MBOLS APPLY, REFER TO FLOOR PLANS AND DRAW	INCS	I		

CONSTRUCTOR SHALL CHECK ALL DIMENSIONS ON THE WORK AND REPORT ANY DISCREPANCY TO THE CONSULTANT BEFORE PROCEEDING. THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION UNTIL AUTHORIZED IN WRITING BY CONSULTANT.

 NO.
 DATE
 DESCRIPTION

 1
 2024-10-04
 ISSUED FOR 50% REVIEW

 2
 2024-11-14
 ISSUED FOR PERMIT

 3
 2024-12-04
 ISSUED FOR F&S REVIEW

 4
 2025-01-24
 ISSUED FOR PEER REVIEW

 5
 2025-01-31
 ISSUED FOR BID

 6
 2025-03-24
 Bid Addendum #04

 7
 2025-04-30
 ISSUED FOR CONSTRUCTION

THIS DRAWING IS "ISSUED FOR CONSTRUCTION" AND IS CONSIDERED COMPLEMENTARY TO THE CONTRACT DOCUMENTS. TO THE BEST OF OUR KNOWLEDGE IT IS AN ACCURATE REPRESENTATION OF DOCUMENTED REVISIONS. IN THE CASE OF ANY DISCREPANCY, OMISSION OR CONFLICT BETWEEN THIS "ISSUED FOR CONSTRUCTION" DOCUMENT AND THE CONTRACT DOCUMENTS, THE CONTRACTOR IS TO PROMPTLY BRING IT TO THE ATTENTION OF THE CONSULTANT.



architects

ENFORM Architects Inc. 128A Sterling Road, Suite 302B Toronto, Ontario, Canada M6R 2B7 t: 647-948-7523 www.enformarchitects.com

UNIVERSITY OF TORONTO

HEALTH AND WELLNESS CENTRE RENOVATION AT KOFFLER

214 COLLEGE ST, TORONTO, ON M5T 3A1 SHEET CONTENTS:

MECHANICAL LEGENDS

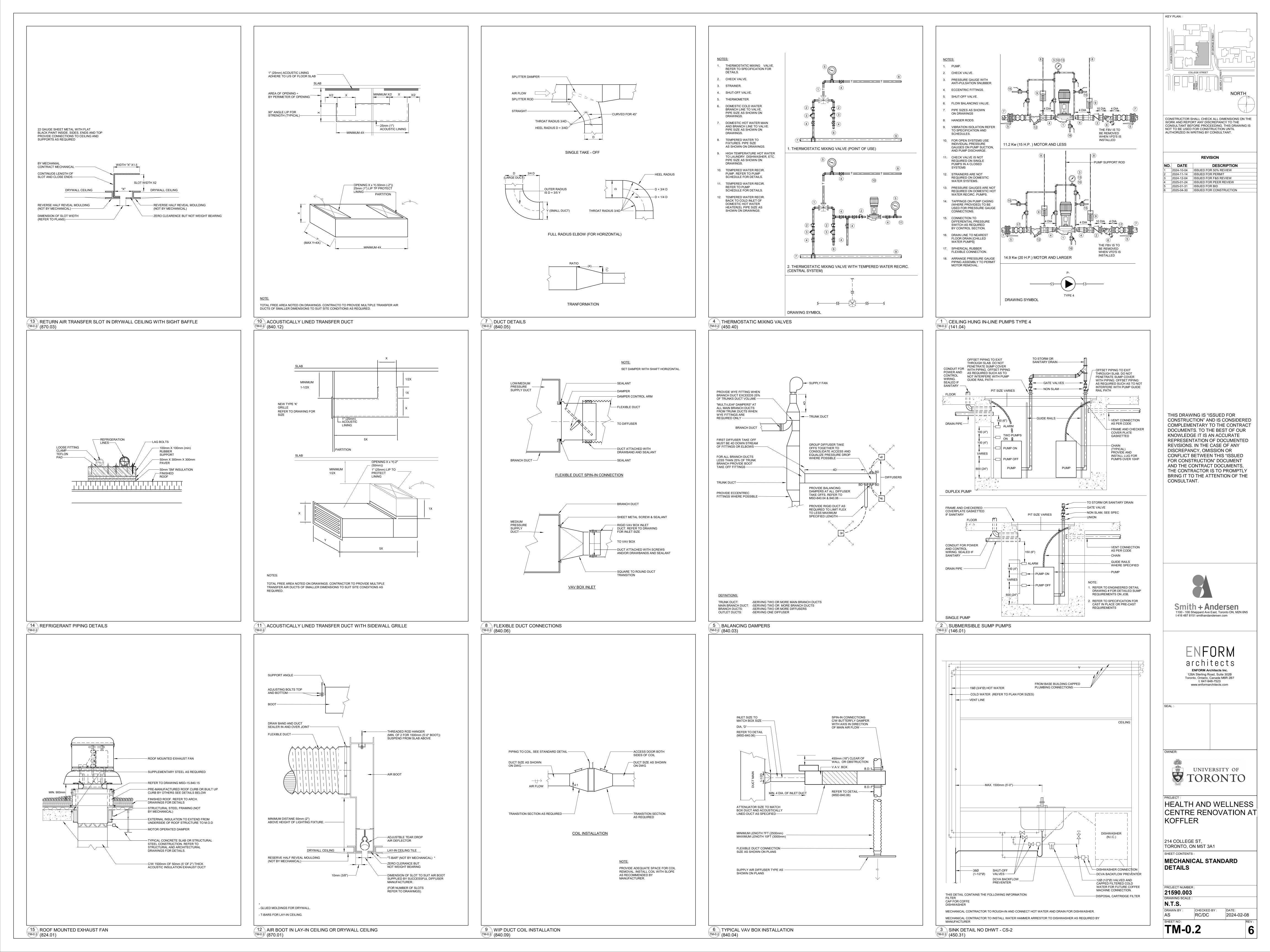
PROJECT NUMBER:
21590.003

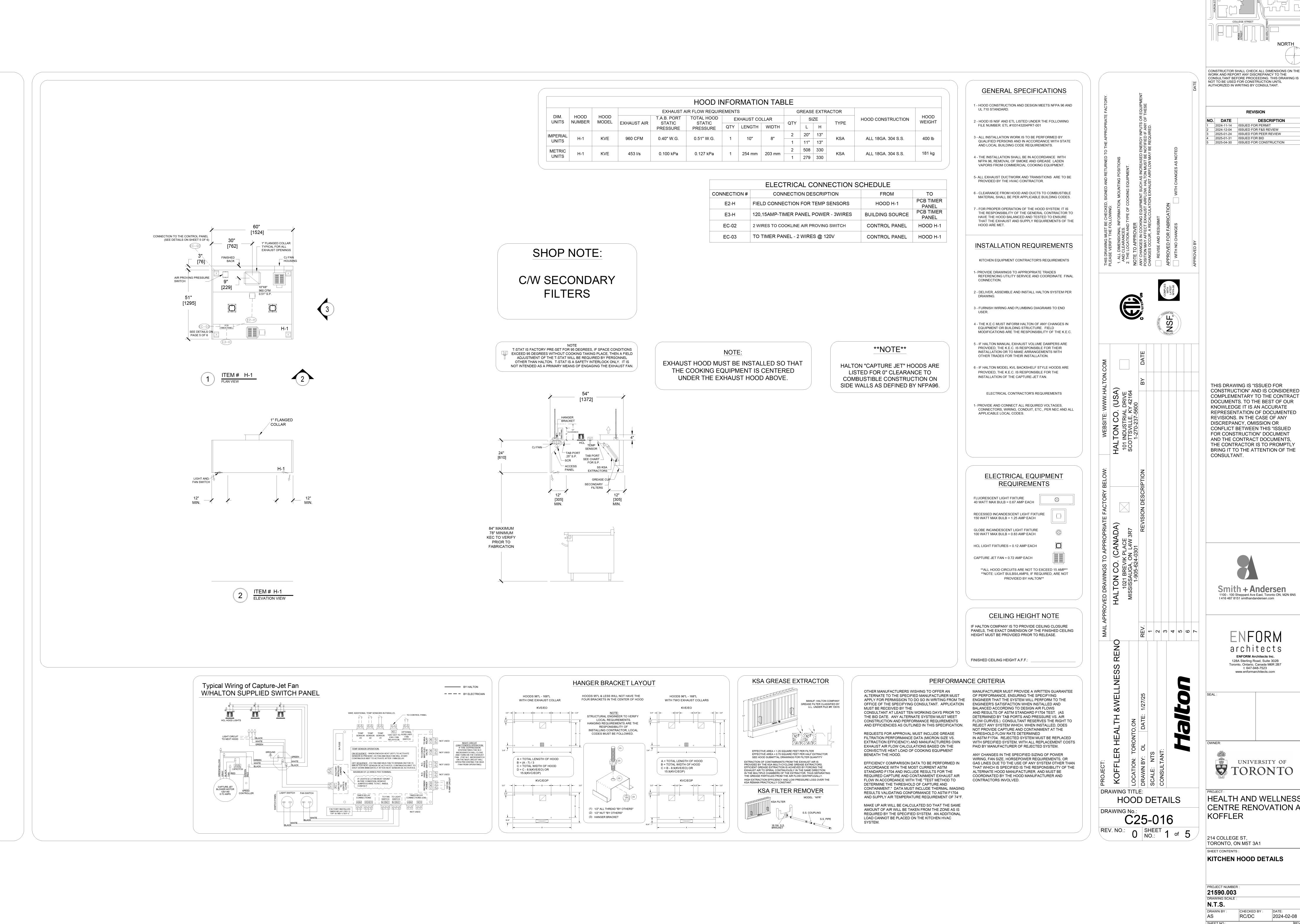
DRAWING SCALE:

N.T.S.

DRAWN BY: CHECKED BY: DATE:
AS RC/DC 2024-02-08

SHEET NO:
TM-0.1





KEY PLAN: CONSTRUCTOR SHALL CHECK ALL DIMENSIONS ON THE

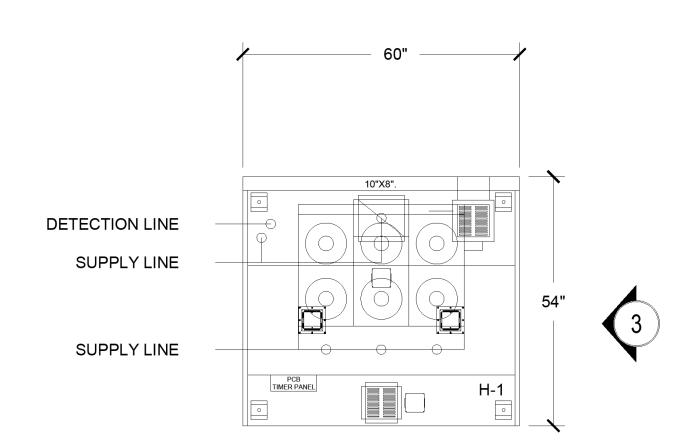
1100 - 100 Sheppard Ave East, Toronto ON, M2N 6N5 t 416 487 8151 smithandandersen.com

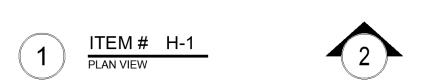
HEALTH AND WELLNESS CENTRE RENOVATION AT

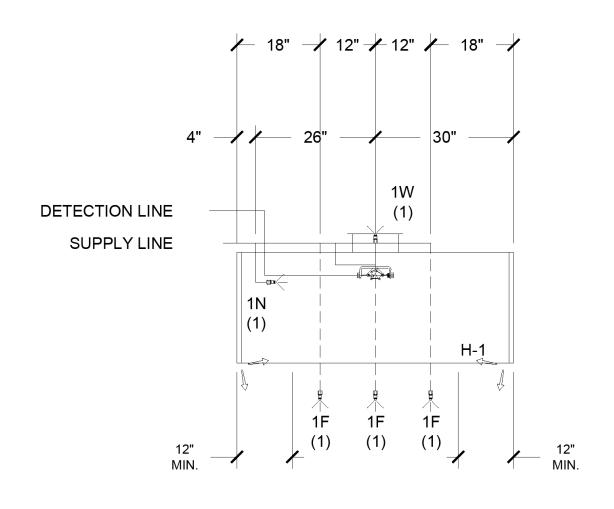
TM-0.3

ANSUL R-102 FIRE SUPPRESSION SYSTEM FIRE SYSTEM IS INTEGRAL WITH FACTORY DESIGN/PIPING/FIELD CERTIFICATION

ITEM#











VOLTAGE FREE N/O CONTACTS

TO THE MUA HVAC

VOLTAGE FREE

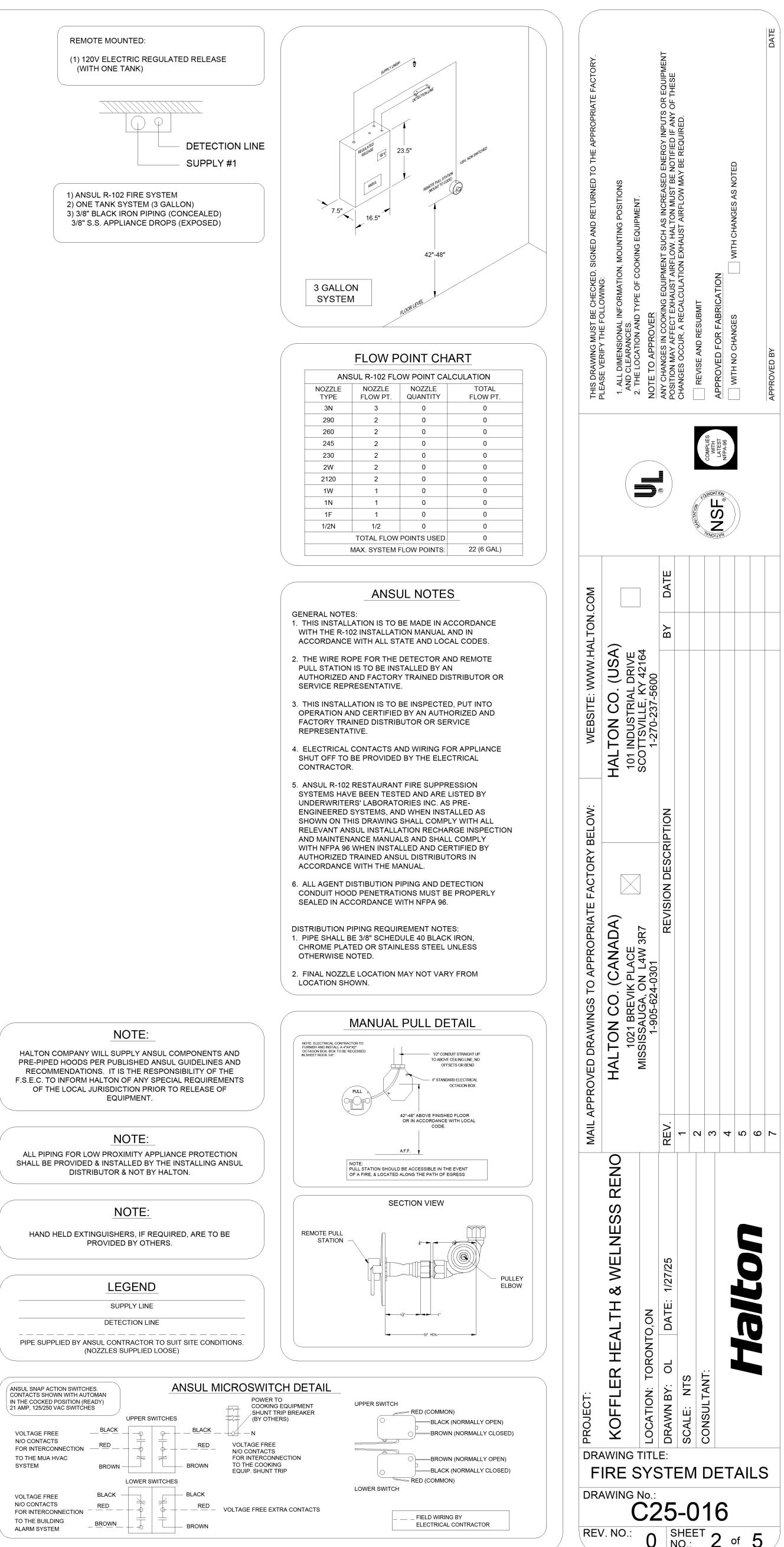
N/O CONTACTS

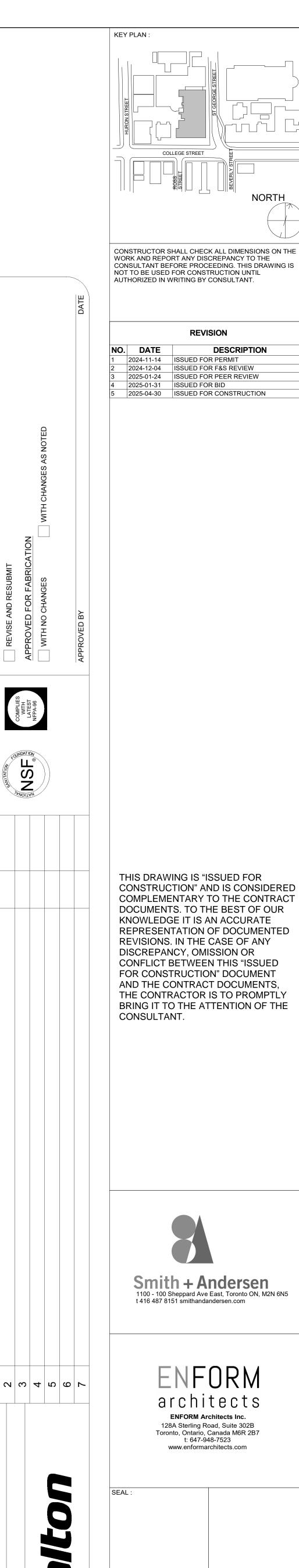
TO THE BUILDING

ALARM SYSTEM

FOR INTERCONNECTION -

FOR INTERCONNECTION -



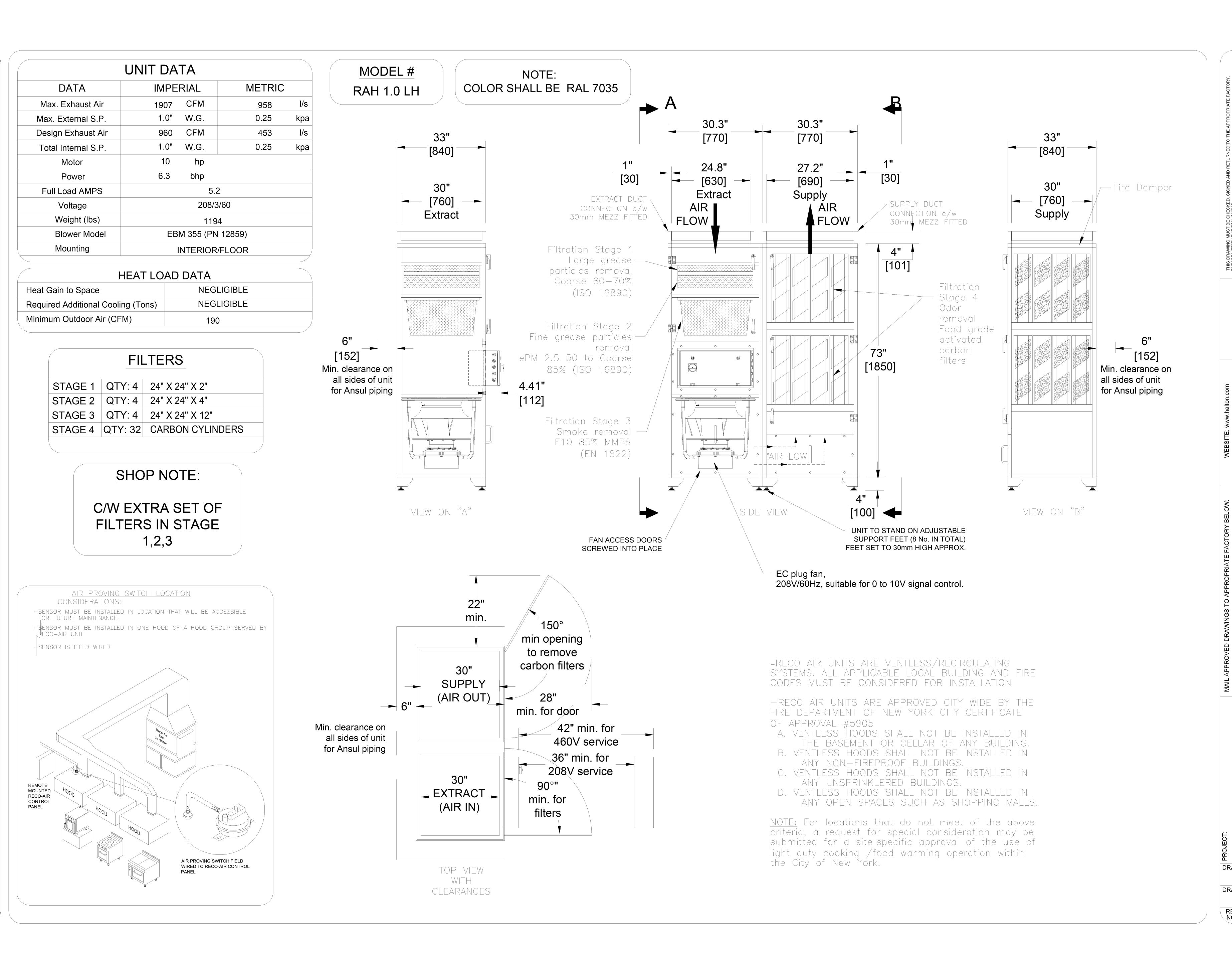




HEALTH AND WELLNESS CENTRE RENOVATION AT

214 COLLEGE ST, TORONTO, ON M5T 3A1 SHEET CONTENTS : KITCHEN HOOD DETAILS

PROJECT NUMBER : 21590.003 DRAWING SCALE DRAWN BY : 2024-02-08



E 4 3 2 4 Reco-Air RAH 1.0 C25-016 REV. NO.: 0 SHEET 3 of 5

CONSTRUCTOR SHALL CHECK ALL DIMENSIONS ON THE WORK AND REPORT ANY DISCREPANCY TO THE CONSULTANT BEFORE PROCEEDING. THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION UNTIL AUTHORIZED IN WRITING BY CONSULTANT. **REVISION**
 NO.
 DATE
 DESCRIPTION

 1
 2025-01-31
 ISSUED FOR BID

 2
 2025-03-24
 Bid Addendum #04

 3
 2025-04-30
 ISSUED FOR CONSTRUCTION

THIS DRAWING IS "ISSUED FOR DOCUMENTS. TO THE BEST OF OUR KNOWLEDGE IT IS AN ACCURATE REPRESENTATION OF DOCUMENTED AND THE CONTRACT DOCUMENTS, THE CONTRACTOR IS TO PROMPTLY BRING IT TO THE ATTENTION OF THE CONSULTANT.



ENFORM architects ENFORM Architects Inc. 128A Sterling Road, Suite 302B Toronto, Ontario, Canada M6R 2B7 t: 647-948-7523

www.enformarchitects.com

UNIVERSITY OF TORONTO

HEALTH AND WELLNESS CENTRE RENOVATION AT KOFFLER

214 COLLEGE ST, TORONTO, ON M5T 3A1 SHEET CONTENTS: KITCHEN ECOLOGY UNIT **DETAILS**

PROJECT NUMBER: 21590.003
DRAWING SCALE: CHECKED BY: DATE: 2024-02-08

TM-0.5

MODEL# RAH 1.0 LH

FLOW POINT CHART ANSUL R-102 FLOW POINT CALCULATION TOTAL QUANTITY FLOW PT. 2W TOTAL FLOW POINTS USED

MAX. SYSTEM FLOW POINTS:

33 (9 GALLON)

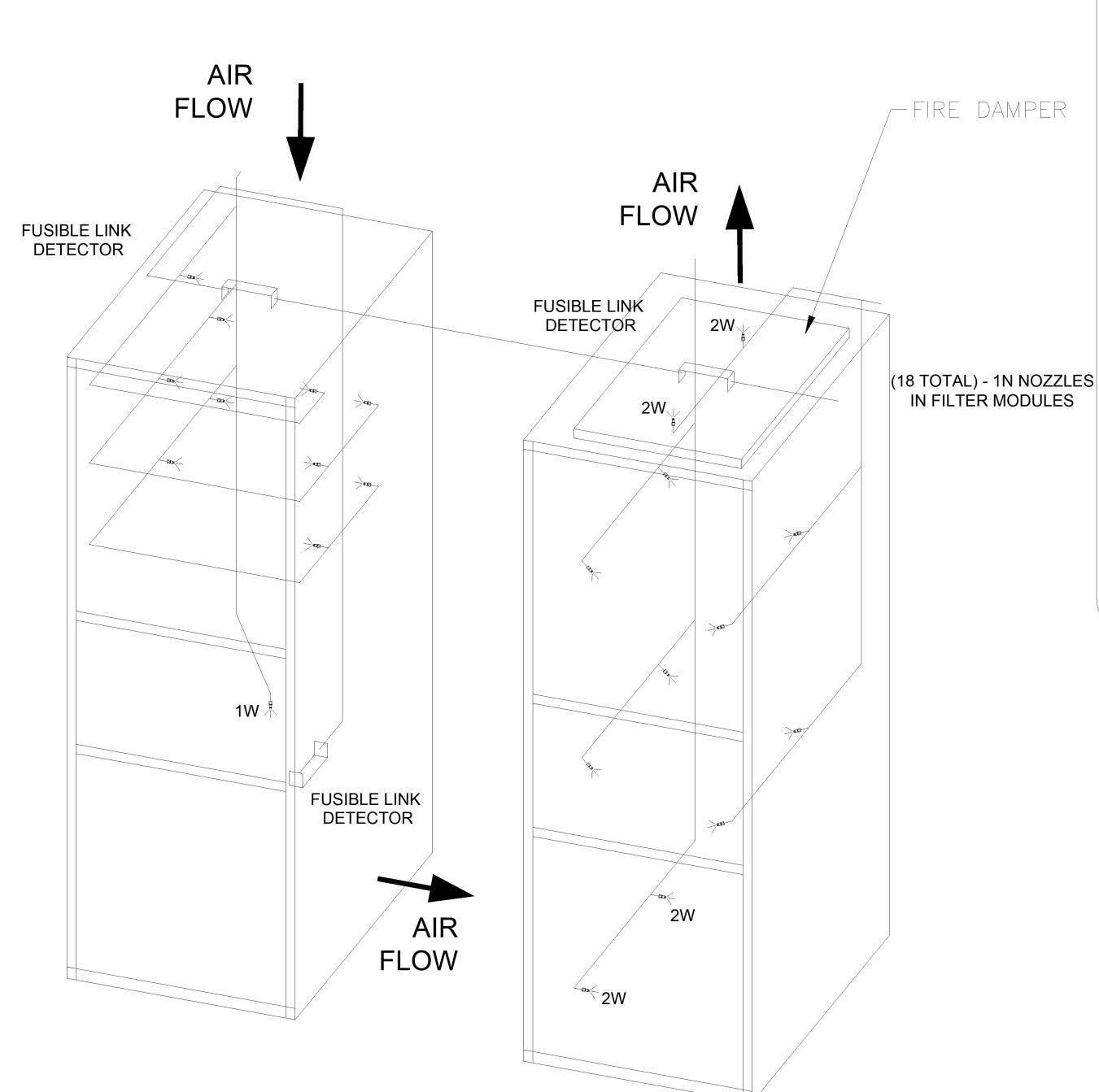
ANSUL NOTES

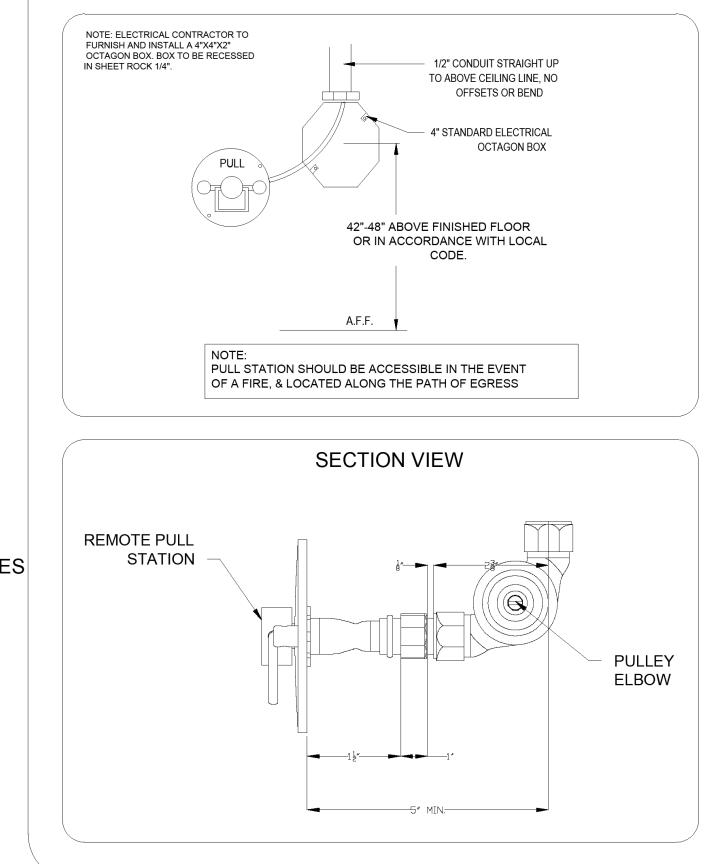
GENERAL NOTES:

- 1. THIS INSTALLATION IS TO BE MADE IN ACCORDANCE WITH THE R-102 INSTALLATION MANUAL AND IN ACCORDANCE WITH ALL STATE AND LOCAL CODES.
- 2. THE WIRE ROPE FOR THE DETECTOR IS TO BE **INSTALLED BY AN** AUTHORIZED AND FACTORY TRAINED DISTRIBUTOR OR SERVICE REPRESENTATIVE.
- 3. THIS INSTALLATION IS TO BE INSPECTED, PUT INTO OPERATION AND CERTIFIED BY AN AUTHORIZED AND FACTORY TRAINED DISTRIBUTOR OR SERVICE REPRESENTATIVE.
- 4. ELECTRICAL CONTACTS AND WIRING FOR APPLIANCE SHUT OFF TO BE PROVIDED BY THE ELECTRICAL CONTRACTOR.
- 5. ANSUL R-102 RESTAURANT FIRE SUPPRESSION SYSTEMS HAVE BEEN TESTED AND ARE LISTED BY UNDERWRITERS' LABORATORIES INC. AS PRE-ENGINEERED SYSTEMS, AND WHEN INSTALLED AS SHOWN ON THIS DRAWING SHALL COMPLY WITH ALL RELEVANT ANSUL INSTALLATION RECHARGE INSPECTION AND MAINTENANCE MANUALS AND SHALL COMPLY WITH NFPA 96 WHEN INSTALLED AND CERTIFIED BY AUTHORIZED TRAINED ANSUL DISTRIBUTORS IN ACCORDANCE WITH THE MANUAL.
- 6. ALL AGENT DISTRIBUTION PIPING AND DETECTION CONDUIT HOOD PENETRATIONS MUST BE PROPERLY SEALED IN ACCORDANCE WITH NFPA 96.

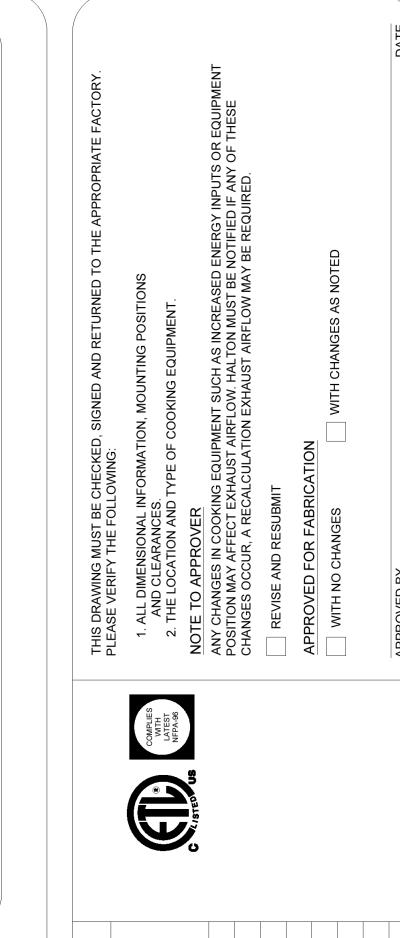
DISTRIBUTION PIPING REQUIREMENT NOTES: 1. PIPE SHALL BE 3/8" SCHEDULE 40 BLACK IRON FOR INDOOR APPLICATIONS, AND WILL BE PAINTED FOR OUTDOOR APPLICATIONS UNLESS OTHERWISE NOTED.

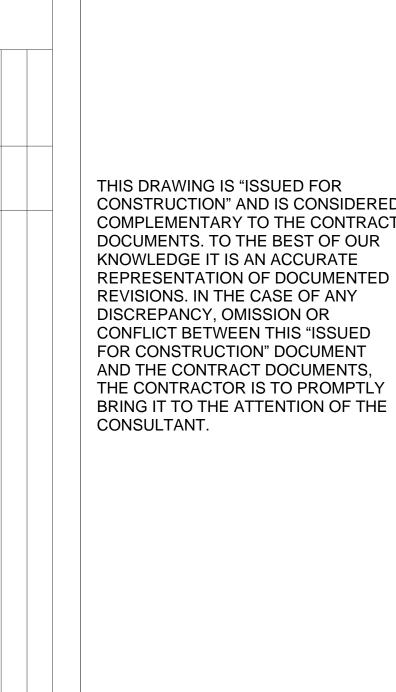
2. FINAL NOZZLE LOCATION MAY NOT VARY FROM LOCATION SHOWN.





MANUAL PULL DETAIL





CONSTRUCTOR SHALL CHECK ALL DIMENSIONS ON THE WORK AND REPORT ANY DISCREPANCY TO THE CONSULTANT BEFORE PROCEEDING. THIS DRAWING IS

NOT TO BE USED FOR CONSTRUCTION UNTIL

AUTHORIZED IN WRITING BY CONSULTANT.

2025-01-31 ISSUED FOR BID

2025-04-30 ISSUED FOR CONSTRUCTION





www.enformarchitects.com



HEALTH AND WELLNESS CENTRE RENOVATION AT KOFFLER

214 COLLEGE ST, TORONTO, ON M5T 3A1 SHEET CONTENTS: KITCHEN ECOLOGY UNIT

DETAILS

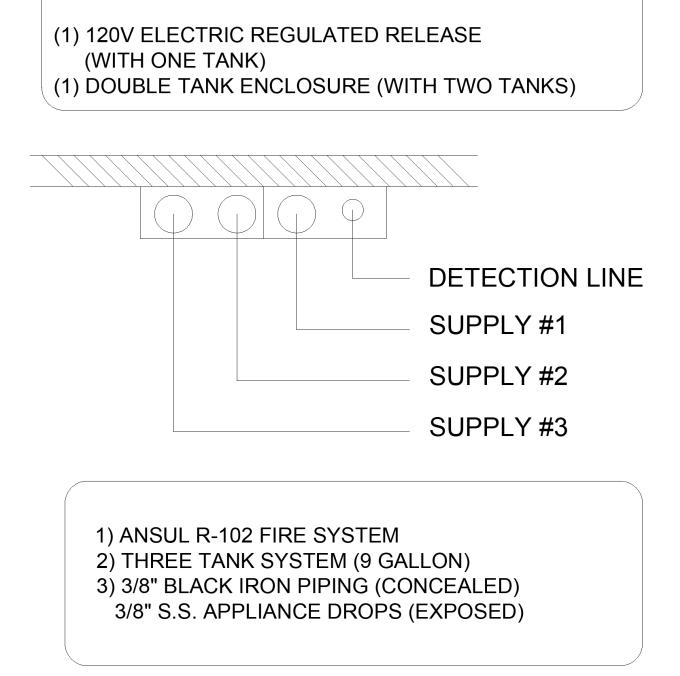
PROJECT NUMBER: 21590.003 DRAWING SCALE : DATE: 2024-02-08

NOTE:

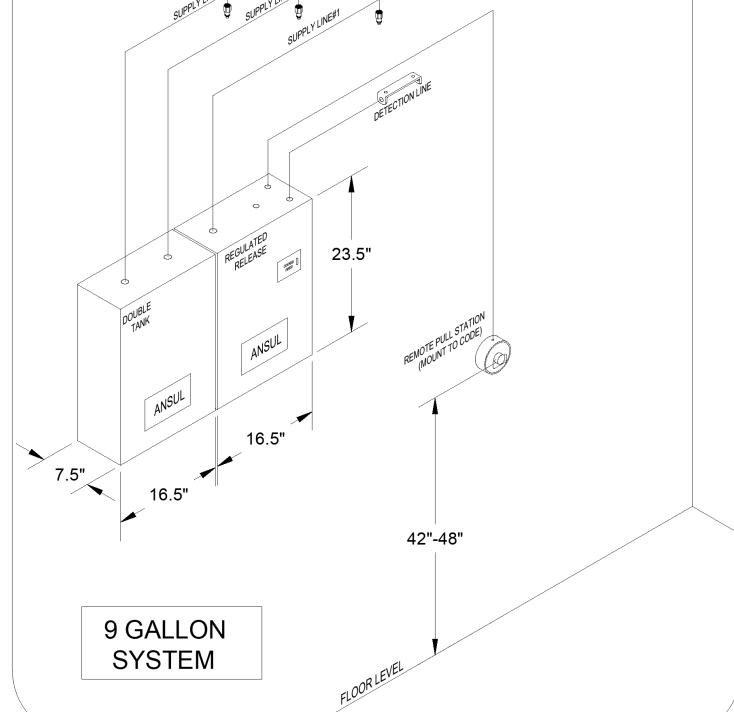
HALTON COMPANY WILL SUPPLY ANSUL COMPONENTS AND PRE-PIPED HOODS PER PUBLISHED ANSUL GUIDELINES AND RECOMMENDATIONS. IT IS THE RESPONSIBILITY OF THE F.S.E.C. TO INFORM HALTON OF ANY SPECIAL REQUIREMENTS OF THE LOCAL JURISDICTION PRIOR TO RELEASE OF EQUIPMENT.

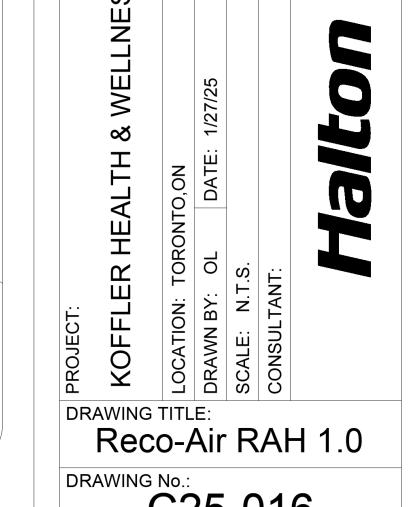
NOTE:

ALL PIPING FOR LOW PROXIMITY APPLIANCE PROTECTION SHALL BE PROVIDED & INSTALLED BY THE INSTALLING ANSUL DISTRIBUTOR & NOT BY HALTON.



REMOTE MOUNTED:

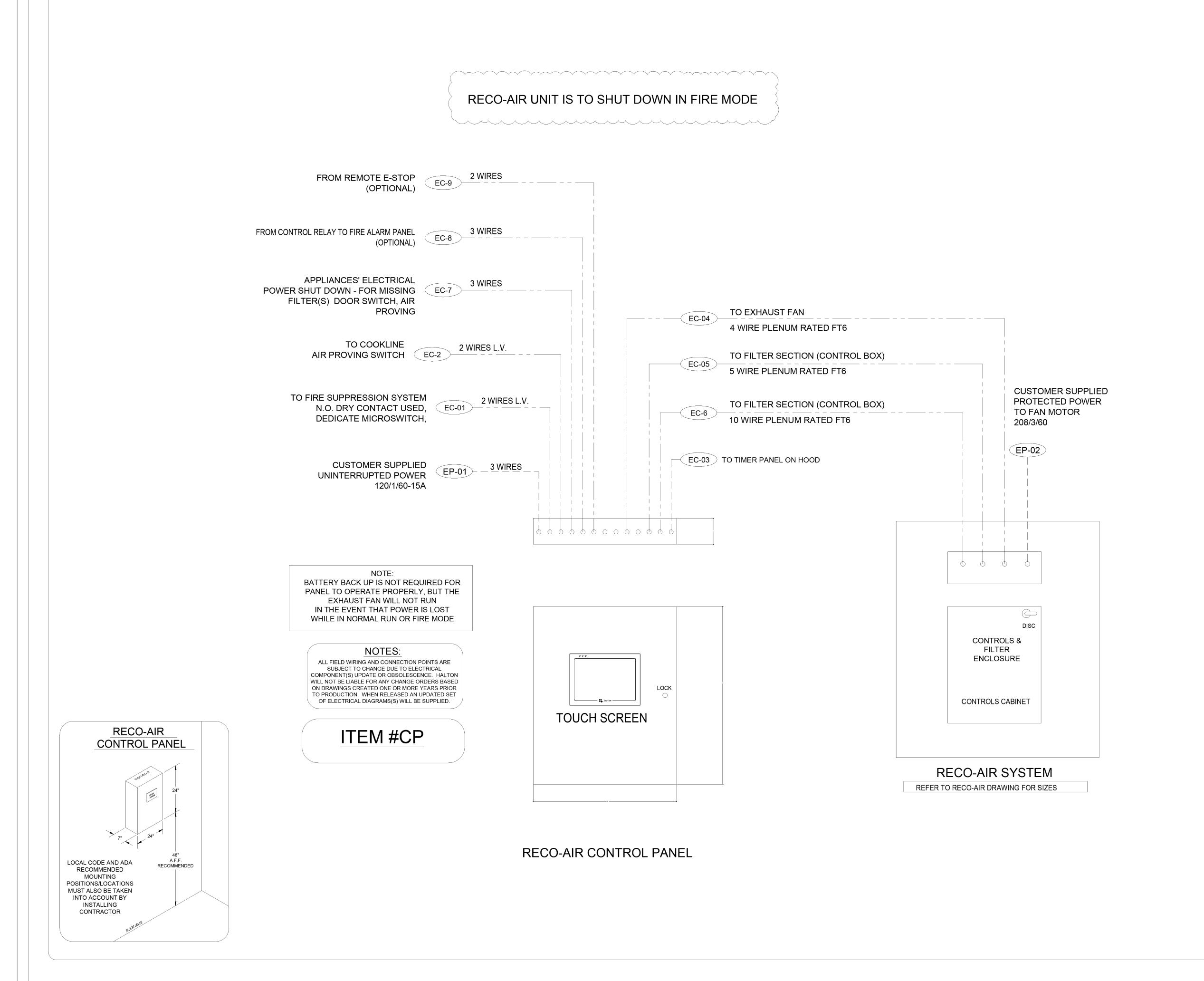




C25-016 REV. 0 SHEET 4 of 5

CHECKED BY:

TM-0.6



NOTES:

ALL WIRING AND CABLING TO BE

PROVIDED BY ELECTRICAL CONTRACTOR

NOTES:

---- FIELD WIRING (BY E.C.) - 120V - 12AWG MIN.-10AWG MAX.

——— — FIELD WIRING (BY E.C.) - 24V - 22AWG MIN.-16AWG MAX.

UNLESS STATED OTHERWISE

ELECTRICAL CONNECTION SCHEDULE

POWER CONNECTIONS:

EP-01 120 V, 15 AMP - RECO-AIR CONTROL PANEL POWER - 3 WIRES

EP-02 HIGH VOLTAGE POWER FROM BUILDING SOURCE TO VFD

CONTROLS CONNECTIONS:

EC-01 2 WIRES - TO N.O. CONTACT OF FIRE SYSTEM MICROSWITCH

EC-06 10 WIRES TO DOOR MICROSWITCHES, CANOPY FILTER SWITCH

EC-07 3 WIRES (N.O., COMMON, N.C.) FROM CONTROL RELAY TO SHUNT TRIP

EC-08 3 WIRES (N.O., COMMON, N.C.) FROM CONTROL RELAY TO FIRE ALARM PANEL (OPTIONAL)

EC-02 2 WIRES TO COOKLINE AIR PROVING SWITCH

EC-09 2 WIRES (OPTIONAL) FROM REMOTE E-STOP

EC-04 4 WIRES TO EXHAUST FAN - PLENUM RATED FT6

EC-05 5 WIRES TO FILTER SECTION - STP CABLE - FT6 RATED

EC-03 2 WIRES - FROM TIMER PANEL - 120 VAC

RECO-AIR - SYSTEM SCOPE OF WORK

RESPONSIBILITY TO BE SELECTED BY GENERAL CONTRACTOR DEFINITIONS FOR REFERENCE:

RECO-AIR SYSTEMS = 1 EXHAUST FAN SERVING MULTIPLE KITCHEN HOODS OR ONE HOOD ONLY VFD = VARIABLE FREQUENCY DRIVES

CONNECTION LOCATIONS WILL VARY PER SYSTEM, REFER TO

- 1. APPLICABLE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF THE RECO-AIR CONTROL PANEL. LOCATION TO BE DETERMINED BY GC AND SHAL BE WITHIN SAME SPACE AS THE KITCHEN HOODS BEING SERVED BY
- (15A) DEDICATED CIRCUIT AT RECO-AIR CONTROL PANEL
- 3. APPLICABLE CONTRACTOR TO SUPPLY AND INSTALL THREE PHASE OR SINGLE PHASE POWER FEED FROM CIRCUIT BREAKER(S) TO VFD(S). APPLICABLE CONTRACTOR TO SUPPLY AND INSTALL THREE PHASE OR SINGLE PHASE POWER FROM VFD(S) TO EXHAUST / MUA (IF APPLICABLE) MOTORS, IF RECO-AIR IS EXTERIOR TYPE. ALL TO BE RAN IN SEPARATE CONDUIT.
- DC WIRING FROM FIRE SYSTEM TO RECO-AIR CONTROL PANEL.
- PLENUM RATED CABLE FOR MUA SIGNAL START/STOP FROM CONTROL PANEL TO BMS OR DDC PANEL.
- AC WIRING FROM RECO-AIR CONTROL PANEL TO VFD CABINET. FOR FIRESTAT CONNECTION.
- MOUNTED AT RECO-AIR UNIT. 9. APPLICABLE CONTRACTOR TO SUPPLY AND RUN 3 WIRE 24V

PANEL IN ORDER TO SHUT OFF POWER SUPPLY AND GAS.

AC WIRING FROM RECO-AIR CONTROL PANEL TO THIRD PARTY

- WIRING FROM RECO-AIR CONTROL PANEL TO RECO-AIR CARBON
- COMMISSIONING ONCE ALL RESPONSIBILITIES ARE COMPLETED

HALTON MARVEL DIAGRAMS FOR SPECIFICS

2. APPLICABLE CONTRACTOR TO SUPPLY AND INSTALL 120V

4. APPLICABLE CONTRACTOR TO SUPPLY AND RUN 2 WIRE 5 V

5. APPLICABLE CONTRACTOR TO SUPPLY AND RUN 4 WIRE STP

6. APPLICABLE CONTRACTOR TO SUPPLY AND RUN 7 WIRE STP PLENUM RATED CABLE 7 FROM RECO-AIR CONTROL PANEL TO

7. APPLICABLE CONTRACTOR TO SUPPLY AND RUN 2 WIRE 24V

8. APPLICABLE CONTRACTOR TO SUPPLY AND RUN 10 WIRE STP PLENUM RATED CABLE FROM RECO-AIR CONTROL PANEL

TO ELECTRICAL ENCLOSURE OF THE FILTER SECTION

10. APPLICABLE CONTRACTOR TO SUPPLY AND RUN 3 WIRE 24V SECTION. THREE WIRES ARE FOR VOC DETECTOR BEFORE CARBON FILTERS AND THREE WIRES ARE FOR VOC DETECTOR AFTER CARBON FILTERS.

11. HALTON REPRESENTATIVE TO PERFORM FINAL FIELD

REVISION 2025-01-31 ISSUED FOR BID 2025-04-30 ISSUED FOR CONSTRUCTION

CONSTRUCTOR SHALL CHECK ALL DIMENSIONS ON THE WORK AND REPORT ANY DISCREPANCY TO THE CONSULTANT BEFORE PROCEEDING. THIS DRAWING IS

NOT TO BE USED FOR CONSTRUCTION UNTIL AUTHORIZED IN WRITING BY CONSULTANT.

THIS DRAWING IS "ISSUED FOR CONSTRUCTION" AND IS CONSIDERED COMPLEMENTARY TO THE CONTRACT DOCUMENTS. TO THE BEST OF OUR KNOWLEDGE IT IS AN ACCURATE REPRESENTATION OF DOCUMENTED REVISIONS. IN THE CASE OF ANY DISCREPANCY, OMISSION OR CONFLICT BETWEEN THIS "ISSUED FOR CONSTRUCTION" DOCUMENT AND THE CONTRACT DOCUMENTS, THE CONTRACTOR IS TO PROMPTLY BRING IT TO THE ATTENTION OF THE CONSULTANT.



1100 - 100 Sheppard Ave East, Toronto ON, M2N 6N5 t 416 487 8151 smithandandersen.com

architects **ENFORM Architects Inc.** 128A Sterling Road, Suite 302B Toronto, Ontario, Canada M6R 2B7 t: 647-948-7523

www.enformarchitects.com

UNIVERSITY OF

HEALTH AND WELLNESS CENTRE RENOVATION AT KOFFLER

214 COLLEGE ST, TORONTO, ON M5T 3A1 SHEET CONTENTS:

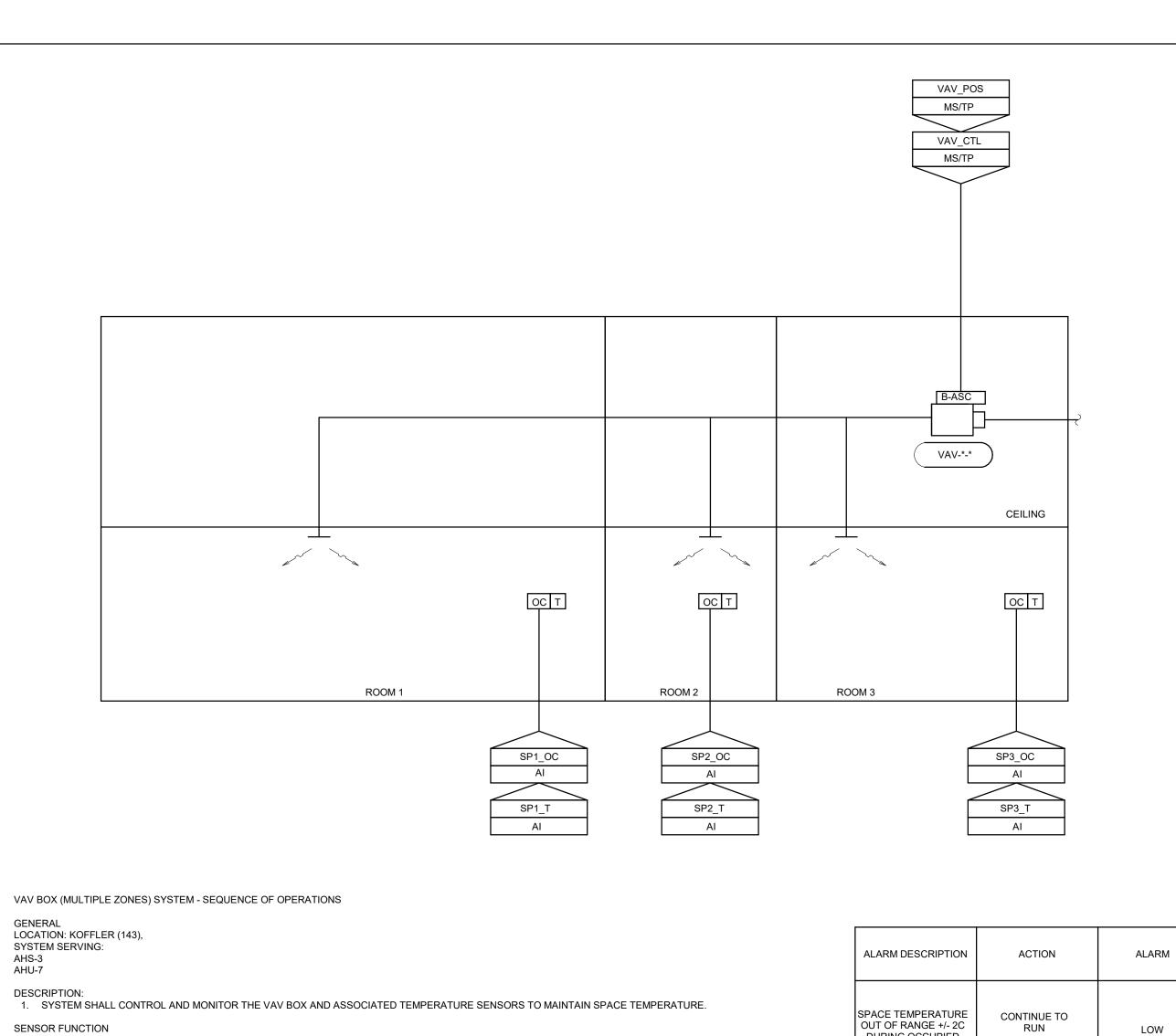
PROJECT NUMBER : 21590.003 DRAWING SCALE :

Reco-Air RAH 1.0

C25-016

KITCHEN ECOLOGY UNIT **DETAILS**

RC/DC 2024-02-08 TM-0.7



VAV BOX (MULTIPLE ZONES) SYSTEM - SEQUENCE OF OPERATIONS

1. SYSTEM SHALL CONTROL AND MONITOR THE VAV BOX AND ASSOCIATED TEMPERATURE SENSORS TO MAINTAIN SPACE TEMPERATURE.

SENSOR FUNCTION SPACE TEMPERATURE SENSOR (BY CONTROLS CONTRACTOR) THIS INPUT SHALL BE USED TO MODULATE THE ASSOCIATED VAV BOX TO CONTROL THE SPACE TEMPERATURE.

OCCUPANCY SENSOR (BY CONTROL CONTRACTOR) THIS INPUT SHALL BE USED TO ADD OR REMOVE TEMPERATURE SENSORS FROM THE SPACE TEMPERATURE AVERAGING FUNCTION.

OCCUPIED SCHEDULE: SAME SCHEDULE AS ASSOCIATED AIR HANDLING UNIT.

SYSTEM START/STOP

SYSTEM ENABLED (INITIAL START- UP): SYSTEM IS ENABLED THROUGH THE BAS BASED ON OPERATOR DEFINED SCHEDULE OR BY OPERATOR COMMAND. 1. VAV BOXES SHALL MODULATE TO THEIR PRESET POSITION.

SYSTEM IS DISABLED THROUGH THE BAS BASED ON OPERATOR DEFINED SCHEDULE OR BY OPERATOR COMMAND. VAV BOXES SHALL MODULATE CLOSED.

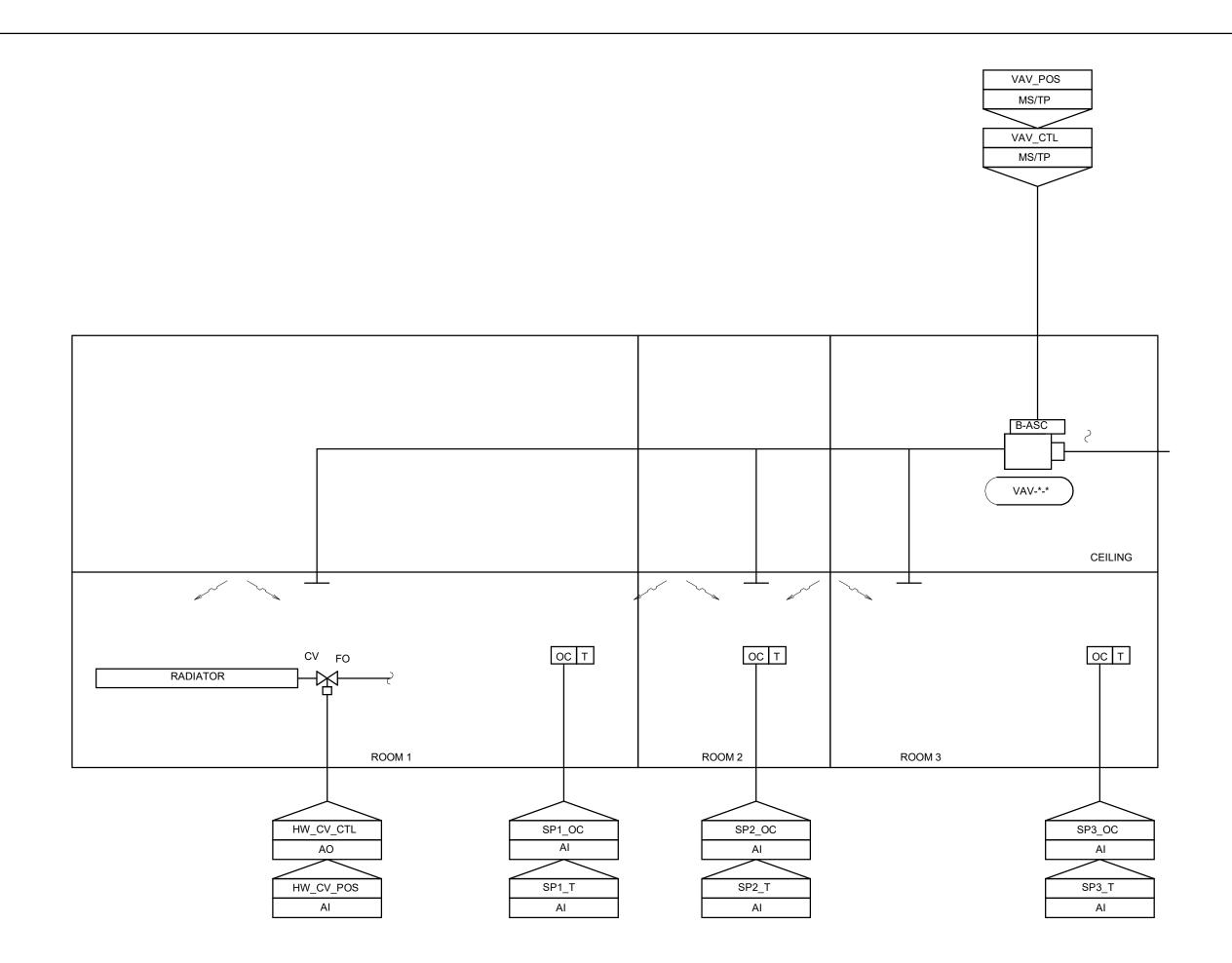
SPACE TEMPERATURE SHALL BE AVERAGED FROM ALL CONNECTED SPACE TEMPERATURE SENSORS OF OCCUPIED ROOMS ONLY. VAV BOX SHALL MODULATE TO MAINTAIN SPACE TEMPERATURE SETPOINT OF 23°C (OPERATOR ADJUSTABLE) BASED ON OCCUPIED AVERAGE SPACE TEMPERATURE.

INTEGRATION WITH OTHER SYSTEMS: 2. CONNECT TO B-BC OF ASSOCIATED AIR HANDLING UNIT

1. SPACE TEMPERATURE FOR EACH SENSOR.

GRAPHICS TO DISPLAY THE MINIMUM AND MAXIMUM SETPOINTS FOR EACH VAV BOX.





VAV BOX (MULTIPLE ZONES) SYSTEM - SEQUENCE OF OPERATIONS

LOCATION: KOFFLER (143), SYSTEM SERVING:

AHU-7

1. SYSTEM SHALL CONTROL AND MONITOR THE VAV BOX AND ASSOCIATED TEMPERATURE SENSORS TO MAINTAIN SPACE TEMPERATURE.

SPACE TEMPERATURE SENSOR (BY CONTROLS CONTRACTOR) THIS INPUT SHALL BE USED TO MODULATE THE ASSOCIATED VAV BOX TO CONTROL THE SPACE TEMPERATURE.

OCCUPANCY SENSOR (BY CONTROL CONTRACTOR) THIS INPUT SHALL BE USED TO ADD OR REMOVE TEMPERATURE SENSORS FROM THE SPACE TEMPERATURE AVERAGING FUNCTION.

OCCUPIED SCHEDULE: SAME SCHEDULE AS ASSOCIATED AIR HANDLING UNIT.

SYSTEM ENABLED (INITIAL START- UP): SYSTEM IS ENABLED THROUGH THE BAS BASED ON OPERATOR DEFINED SCHEDULE OR BY OPERATOR COMMAND.

1. VAV BOXES SHALL MODULATE TO THEIR PRESET POSITION. SYSTEM IS DISABLED THROUGH THE BAS BASED ON OPERATOR DEFINED SCHEDULE OR BY OPERATOR COMMAND.

VAV BOXES SHALL MODULATE CLOSED.

SPACE TEMPERATURE SHALL BE AVERAGED FROM ALL CONNECTED SPACE TEMPERATURE SENSORS OF OCCUPIED ROOMS ONLY. VAV BOX SHALL MODULATE TO MAINTAIN SPACE TEMPERATURE SETPOINT OF 23°C (OPERATOR ADJUSTABLE) BASED ON OCCUPIED AVERAGE SPACE TEMPERATURE. IF HEATING REQUIRED, VAV BOX SHALL MODULATE TO MINIMUM POSITION AND HEATING WATER CONTROL VALVE SHALL MODULATE TO MAINTAIN SPACE TEMPERATURE SETPOINT OF 23°C (OPERATOR ADJUSTABLE).

INTEGRATION WITH OTHER SYSTEMS: CONNECT TO EMRS. 2. CONNECT TO B-BC OF ASSOCIATED AIR HANDLING UNIT

1. SPACE TEMPERATURE FOR EACH SENSOR.

4 MULTI-ZONE BOXES WITH RADIATORS CONTROL DIAGRAM AND SEQUENCE

GRAPHICS TO DISPLAY THE MINIMUM AND MAXIMUM SETPOINTS FOR EACH VAV BOX.

ACTION ALARM DESCRIPTION SPACE TEMPERATURE OUT OF RANGE +/- 2C DURING OCCUPIED CONTINUE TO UNOCCUPIED MODE IF SPACE TEMPERATYRE DROPS BELOW 18 DEG (ADJUSTABLE) DO NOT ALARM WHEN OPERATOR OVERRIDES SYSTEM OR ITS COMPONENTS TO BE DISABLED.

DURING OCCUPIED

MODE

BAS TO ALARM IN

UNOCCUPIED MODE IF

SPACE TEMPERATYRE

DROPS BELOW 18 DEG

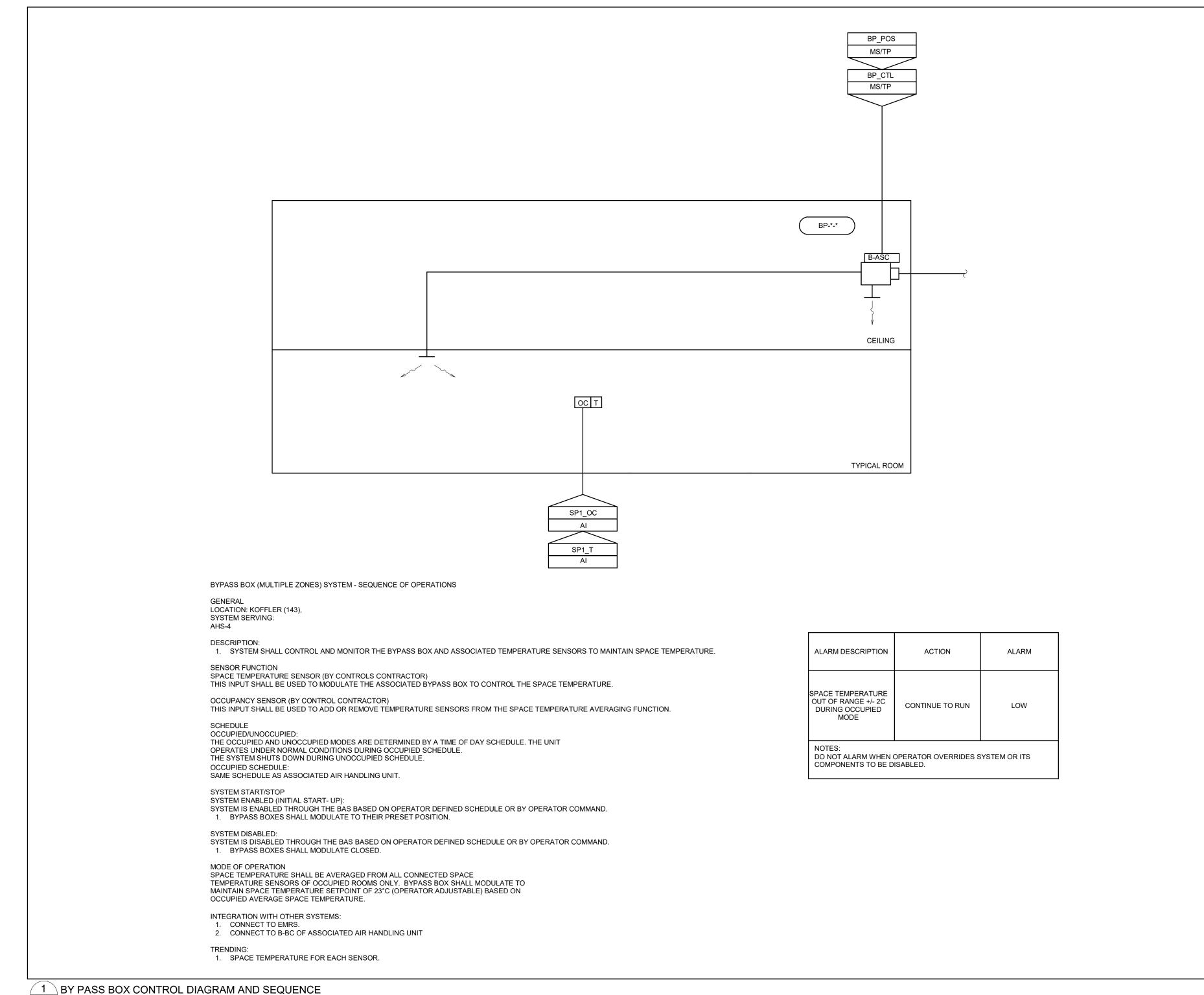
COMPONENTS TO BE DISABLED.

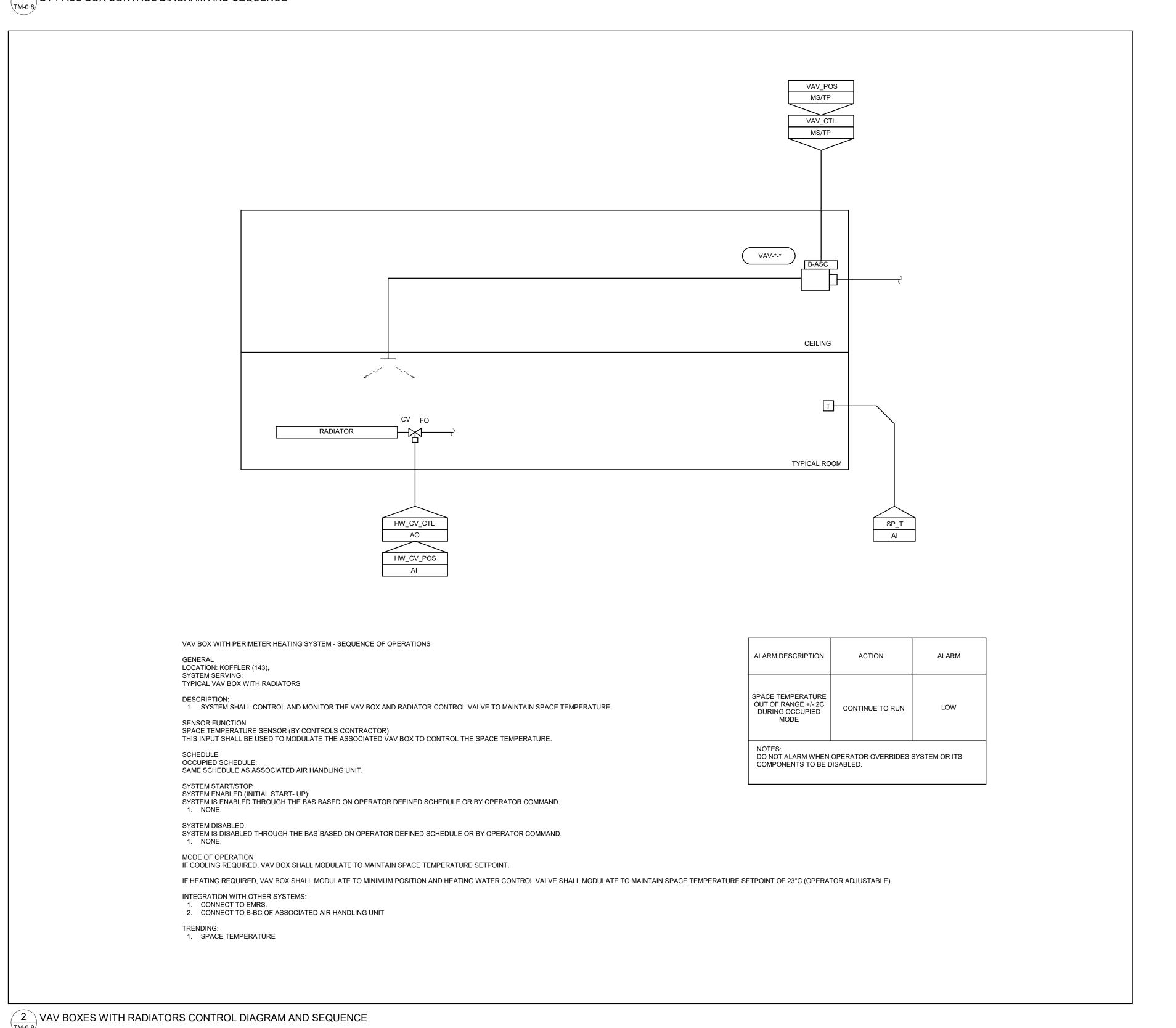
(ADJUSTABLE)

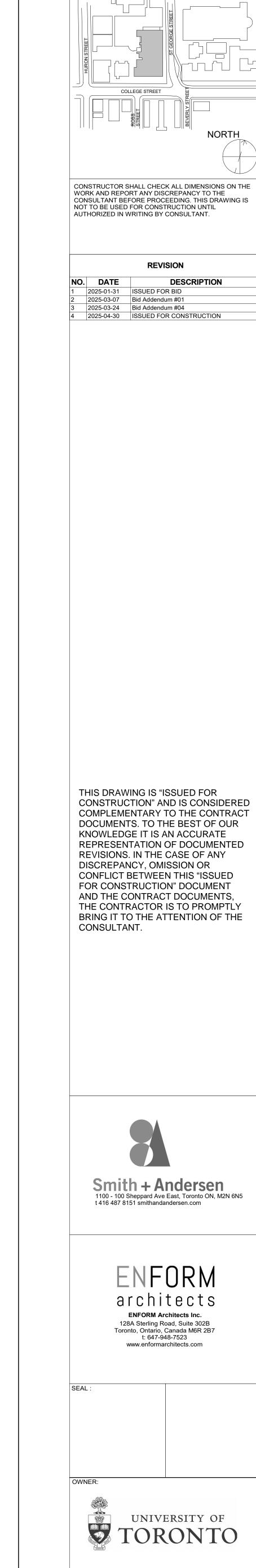
CONTINUE TO

DO NOT ALARM WHEN OPERATOR OVERRIDES SYSTEM OR ITS

LOW





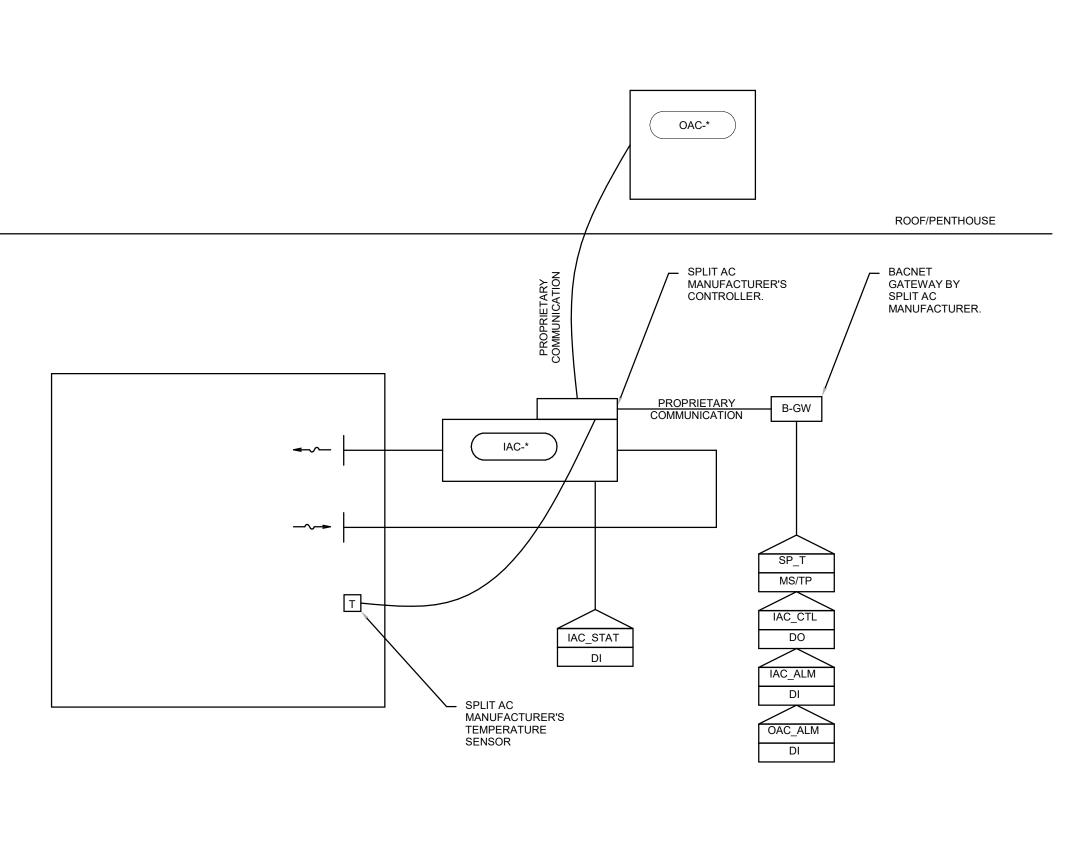


HEALTH AND WELLNESS CENTRE RENOVATION AT

214 COLLEGE ST, TORONTO, ON M5T 3A1 SHEET CONTENTS : CONTROLS DIAGRAM AND

SEQUENCES

PROJECT NUMBER: 21590.003 DRAWING SCALE



SPLIT AC SYSTEMS (TYPICAL) - SEQUENCE OF OPERATIONS

<u>GENERAL</u> LOCATION: KOFFLER (143), STORAGE ROOM 205A, ELECTRICAL ROOM 380A, ELECTRICAL ROOM 343

<u>DESCRIPTION:</u>
SYSTEM SHALL PROVIDE COOLING AND MONITORING OF SPACE TEMPERATURE FOR ASSOCIATED ROOMS.

SENSOR FUNCTION CURRENT SENSOR (BY CONTROLS CONTRACTOR): THIS INPUT SHALL BE USED TO SENSE STATUS OF INDOOR AC UNIT.

<u>SYSTEM START/STOP</u> SYSTEM ENABLED (INITIAL START- UP): SYSTEM IS ENABLED THROUGH THE BAS BASED ON OPERATOR DEFINED SCHEDULE OR BY OPERATOR COMMAND.

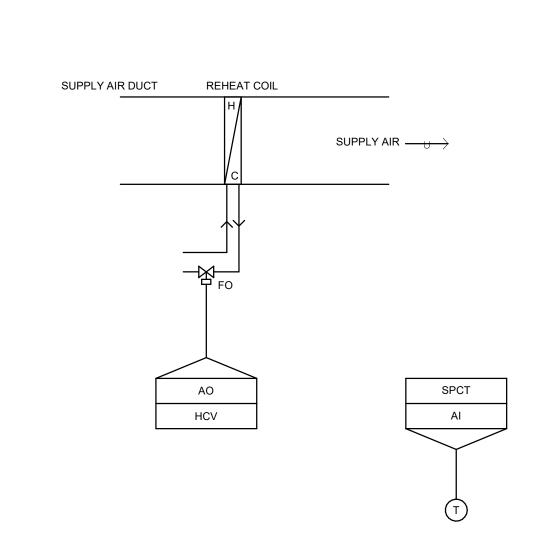
 SPLIT AC UNIT SHALL BE ENABLED.
 INDOOR UNIT SHALL HAVE FAN RUN CONTINUOUSLY. SYSTEM IS DISABLED THROUGH THE BAS BASED ON OPERATOR DEFINED SCHEDULE OR BY OPERATOR COMMAND.

1. SPLIT AC UNIT SHALL BE DISABLED. MODE OF OPERATION SPLIT AC UNIT SHALL MODULATE COMPRESSORS TO MAINTAIN LOCAL SPACE TEMPERATURE SETPOINT.

INTEGRATION WITH OTHER SYSTEMS:
1. CONNECT TO EMRS.

TRENDING:
1. SPACE TEMPERATURE





SYSTEM START/STOP
SYSTEM SHALL BE ENABLED ONLY IN WINTER MODE.

1. SYSTEM START SHALL BE INITIATED BY SPACE TEMPERATURE DEMAND. UPON SIGNAL TO START THE SYSTEM, SUPPLY FAN SHALL START. HEATING COIL VALVE SHALL BE ENABLED.

NORMAL OPERATION WINTER MODE: 1. HEATING COIL VALVE (HCV) SHALL MODULATE TO MAINTAIN SPACE TEMPERATURE (SPCT) AT SET-POINT.

SYSTEM STOP:
1. SYSTEM STOP IS INITIATED WHEN SPACE TEMPERATURE IS SATISFIED. UPON SIGNAL TO STOP THE SYSTEM THE SUPPLY FAN SHALL STOP. HEATING COIL VALVE SHALL BE CLOSED. 2. SYSTEM SHALL BE DISABLED IN SUMMER MODE.

ALARMS:
1. SPACE TEMPERATURE (SPCT) OUT OF RANGE.

ALARM DESCRIPTION CONTINUE TO TEMPERATURE OUT LOW OF RANGE ±2°C DO NOT ALARM WHEN OPERATOR OVERRIDES SYSTEM OR ITS COMPONENTS TO BE DISABLED.

ISOLATION ROOM - SEQUENCE OF OPERATIONS

CONTINUE TO MAINTAIN A NEGATIVE PRESSURE DIFFERENTIAL AS SET BY AIR BALANCERS.

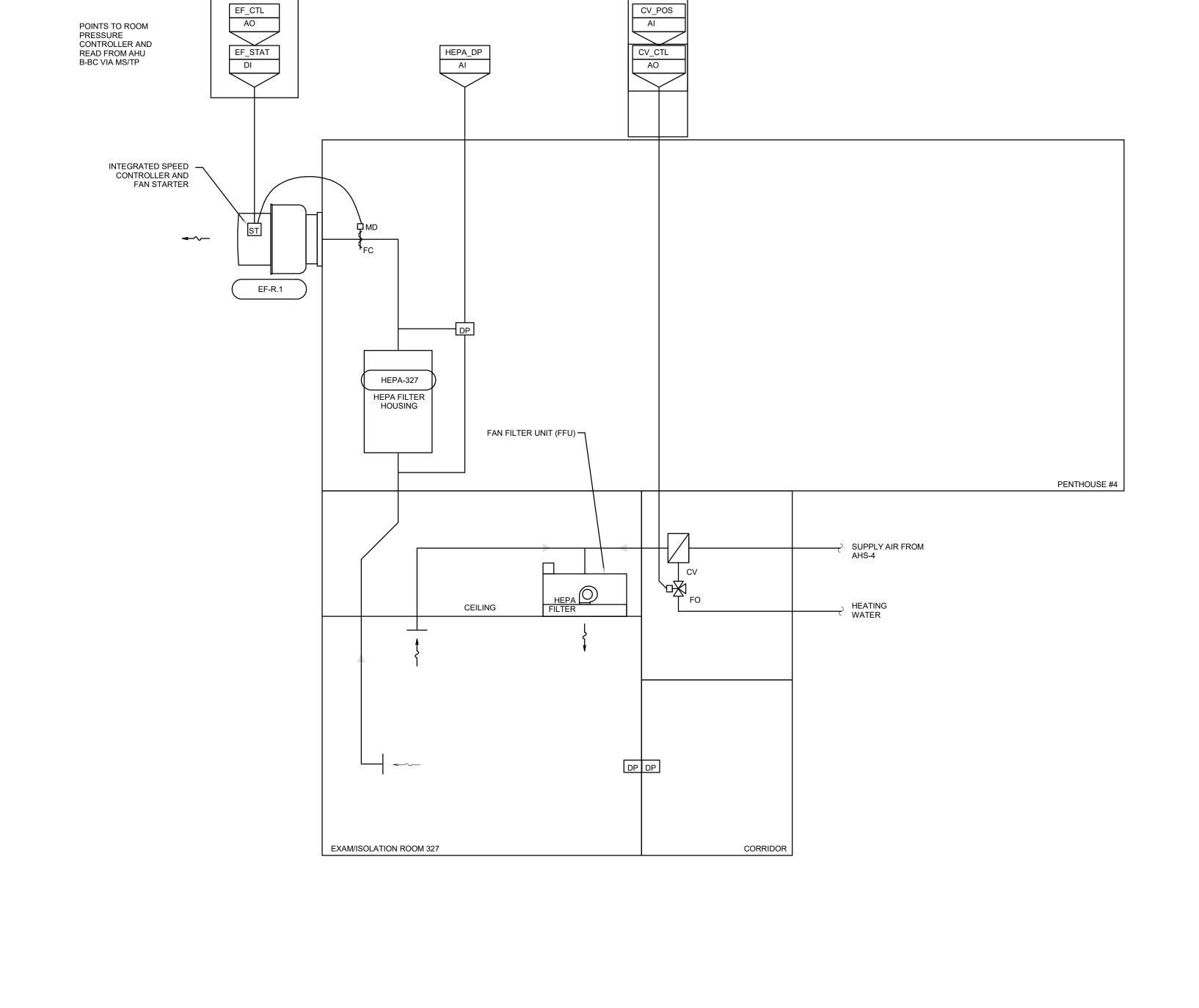
MODE OF OPERATION
IF ROOM PRESSURE DIFFERENTIAL CONTROLLER IS OPERATING

FAN FILTER UNIT SHALL BE DISABLED.

MODULATE REHEAT COIL CONTROL VALVE TO MAINTAIN SPACE TEMPERATURE. INTEGRATION WITH OTHER SYSTEMS: CONNECT TO EMRS.

TRENDING:

1 ISOLATION ROOM CONTROLS DIAGRAM AND SEQUENCE



GENERAL LOCATION: KOFFLER STUDENT CENTER (143), PENTHOUSE #4 SYSTEM SERVING: ISOLATION ROOM 370

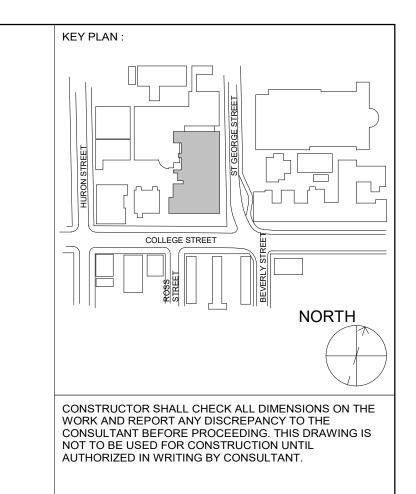
1. CONSTANT VOLUME SUPPLY AND EXHAUST FANS SHALL 2. THE BAS SHALL MONITOR AND DISPLAY THE DIFFERENTIAL PRESSURE IN THE SPACE AND SHALL ALARM IN ANY CASE WHERE PRESSURE IN SPACE BECOMES POSITIVE IN RELATION TO ADJACENT CORRIDOR.

ROOM DIFFERENTIAL PRESSURE CONTROLLER SHALL MODULATE EXHAUST FAN EF-R.1 SPEED TO MAINTAIN 0 INWC ROOM DIFFERENTIAL MODULATE REHEAT COIL CONTROL VALVE TO MAINTAIN SPACE TEMPERATURE. IF ROOM PRESSURE DIFFERENTIAL CONTROLLER IS OPERATING IN "ISOLATION" MODE: FAN FILTER UNIT SHALL BE ENABLED AT PREBALANCED AIRFLOW OF 250 CFM. ROOM DIFFERENTIAL PRESSURE CONTROLLER SHALL ENABLE EXHAUST FAN EF-R.1. LOCAL EF-R.1 ECM CONTROLLER SHALL OPEN MOTORIZED DAMPER MD-2. MODULATE EXHAUST FAN EF-R.1 SPEED TO MAINTAIN 0.03 INWC ROOM DIFFERENTIAL PRESSURE.

. ROOM PRESSURE. 2. ROOM TEMPERATURE

ALARM DESCRIPTION	ACTION	ALARM	
ROOM PRESSURE BELOW 0.01 INWC.	ACTIVATE LOCAL AUDIBLE AND VISUAL ALARM	CRITICAL	
FAN FILTER UNIT FILTER DIRTY	CONTINUE TO RUN	HIGH	
HEPA FILTER HOUSING FILTER DIRTY	CONTINUE TO RUN	HIGH	
EXHAUST FAN NOT WORKING	ACTIVATE LOCAL AUDIBLE AND VISUAL ALARM	CRITICAL	
NOTES: DO NOT ALARM WHEN OPERATOR OVERRIDES SYSTEM OR ITS			

COMPONENTS TO BE DISABLED.



 NO.
 DATE
 DESC

 1
 2025-01-31
 ISSUED FOR BID

 2
 2025-03-07
 Bid Addendum #01

2025-04-30 ISSUED FOR CONSTRUCTION

2025-03-24 Bid Addendum #04

THIS DRAWING IS "ISSUED FOR CONSTRUCTION" AND IS CONSIDERED COMPLEMENTARY TO THE CONTRACT DOCUMENTS. TO THE BEST OF OUR KNOWLEDGE IT IS AN ACCURATE REPRESENTATION OF DOCUMENTED REVISIONS. IN THE CASE OF ANY DISCREPANCY, OMISSION OR CONFLICT BETWEEN THIS "ISSUED FOR CONSTRUCTION" DOCUMENT AND THE CONTRACT DOCUMENTS, THE CONTRACTOR IS TO PROMPTLY BRING IT TO THE ATTENTION OF THE CONSULTANT.



architects ENFORM Architects Inc. 128A Sterling Road, Suite 302B Toronto, Ontario, Canada M6R 2B7 t: 647-948-7523

www.enformarchitects.com

UNIVERSITY OF

HEALTH AND WELLNESS CENTRE RENOVATION AT

214 COLLEGE ST, TORONTO, ON M5T 3A1 SHEET CONTENTS : **CONTROLS DIAGRAMS AND SEQUENCES**

PROJECT NUMBER : 21590.003 DRAWING SCALE : DRAWN BY : 2024-02-08

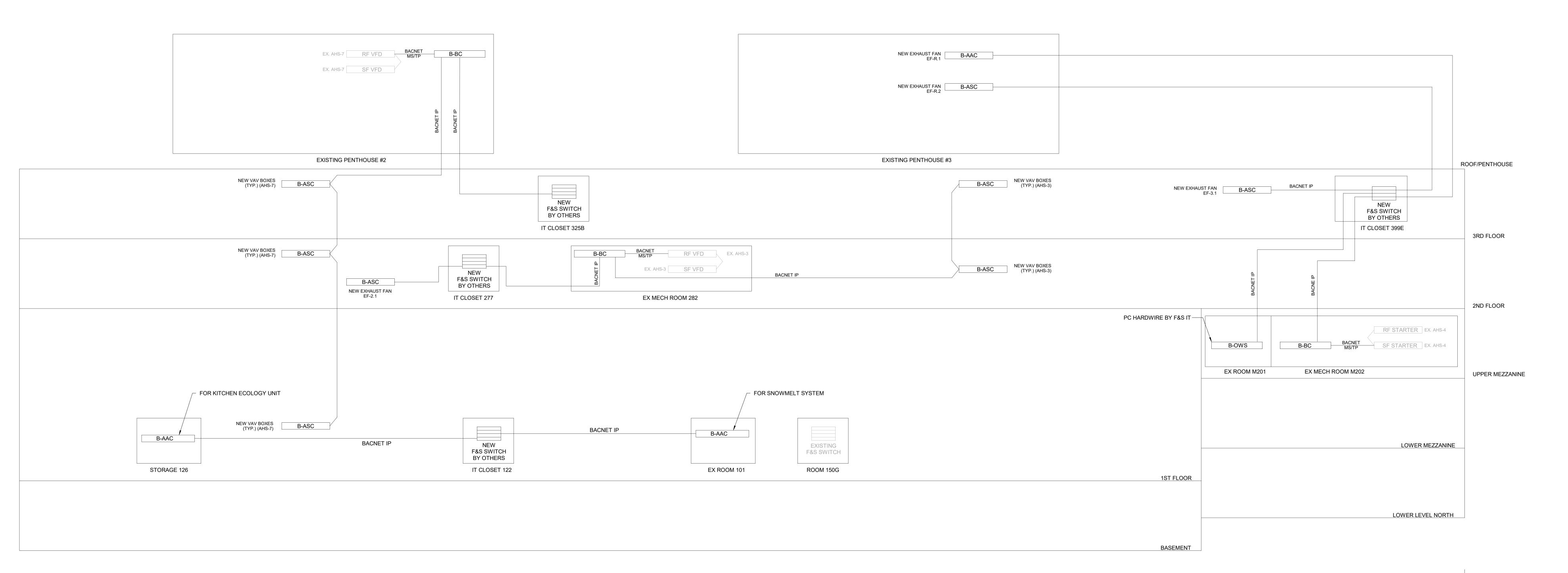
RC/DC

3 REHEAT COIL CONTROLS DIAGRAM

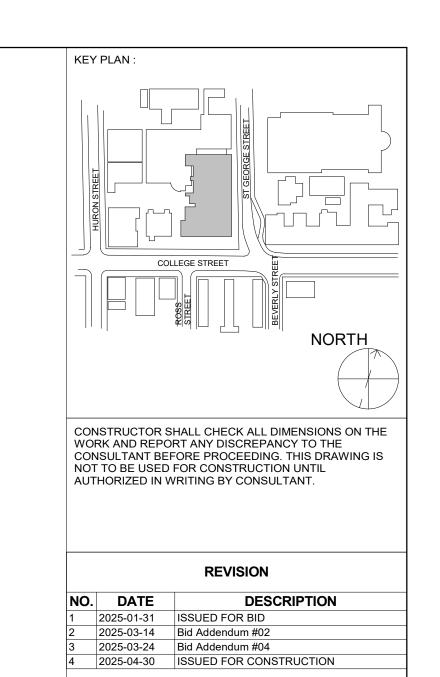
<u>GENERAL NOTES:</u>
PROVIDE ALL NEW DATA AND COMMUNICATION CABLING AS SHOWN BELOW AND AS SPECIFIED. COORDINATE WITH ALL TRADES

B-BC - BUILDING CONTROLLER C/W UPS B-AAC - ADVANCED APPLICATION CONTROLLER B-ASC - APPLICATION SPECIFIC CONTROLLER B-GW – GATEWAY

B-OWS - OPERATOR WORKSTATION



KOFFLER STUDENT CENTER BAHEN (BCIT)



THIS DRAWING IS "ISSUED FOR CONSTRUCTION" AND IS CONSIDERED COMPLEMENTARY TO THE CONTRACT DOCUMENTS. TO THE BEST OF OUR KNOWLEDGE IT IS AN ACCURATE REPRESENTATION OF DOCUMENTED REVISIONS. IN THE CASE OF ANY DISCREPANCY, OMISSION OR CONFLICT BETWEEN THIS "ISSUED FOR CONSTRUCTION" DOCUMENT AND THE CONTRACT DOCUMENTS, THE CONTRACTOR IS TO PROMPTLY BRING IT TO THE ATTENTION OF THE CONSULTANT.



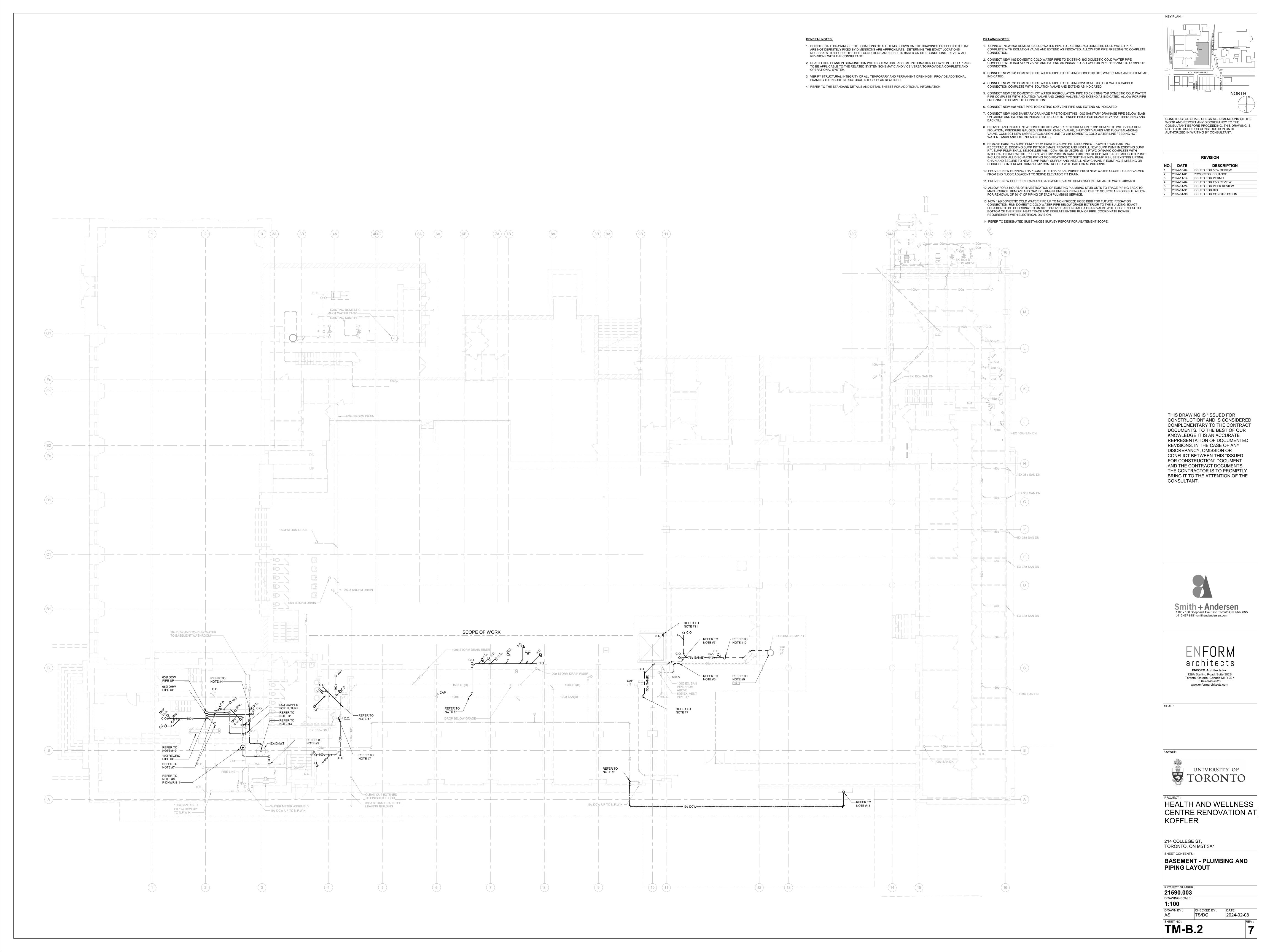
architects ENFORM Architects Inc. 128A Sterling Road, Suite 302B Toronto, Ontario, Canada M6R 2B7 t: 647-948-7523 www.enformarchitects.com

HEALTH AND WELLNESS CENTRE RENOVATION AT KOFFLER

214 COLLEGE ST, TORONTO, ON M5T 3A1 SHEET CONTENTS : BAS ARCHITECTURE DIAGRAM

PROJECT NUMBER:
21590.003
DRAWING SCALE:
N.T.S. CHECKED BY: DATE:
Checker 2024-02-08

SHEET NO: TM-0.10



Grease Interceptor Calculation

Floor	Item Description	length (inches)	width (inches)	depth (inches)	volume (cu in)	Factor to convert volume to gallons	Item Gallons - Item Fixture Units or Calculated Gallons	120 ^{*4 and *3}
1	Sink Compartment 1	14	13	8	1456	231	23	0.5
1	Sink Compartment 2	14	13	8	1456	231	23	0.5
								1.1
						Conversion	1 L/s - 0.063 GPM	0.1

- *1 : Total floor drains (i.e., 3 floor drain * 2.31 to convert to gallons)
- *2 : Enter unit gallon in column H if/when volumes do not apply
- *3 : Drainage Load 75% of Maximum Discharge (Dishes Displace 25% of the water in sink)
- *4 : Drain Down Time 120 (seconds) = (0.75*(I2*3.785)/120) where 3.785 convert gallons to litres and 120 is the drain down time *5 : Drain Down Time 60 (seconds) = (0.75*(I2*3.785)/60) where 3.785 convert gallons to litres and 60 is the drain down time
- Code Reference: OBC 7.4.4.3 Interceptors

GENERAL NOTES:

- 1. DO NOT SCALE DRAWINGS. THE LOCATIONS OF ALL ITEMS SHOWN ON THE DRAWINGS OR SPECIFIED THAT ARE NOT DEFINITELY FIXED BY DIMENSIONS ARE APPROXIMATE. DETERMINE THE EXACT LOCATIONS NECESSARY TO SECURE THE BEST CONDITIONS AND RESULTS BASED ON SITE CONDITIONS. REVIEW ALL
- REVISIONS WITH THE CONSULTANT. 2. READ FLOOR PLANS IN CONJUNCTION WITH SCHEMATICS. ASSUME INFORMATION SHOWN ON FLOOR PLANS TO BE APPLICABLE TO THE RELATED SYSTEM SCHEMATIC AND VICE-VERSA TO PROVIDE A COMPLETE AND
- 3. VERIFY STRUCTURAL INTEGRITY OF ALL TEMPORARY AND PERMANENT OPENINGS. PROVIDE ADDITIONAL FRAMING TO ENSURE STRUCTURAL INTEGRITY AS REQUIRED.

4. REFER TO THE STANDARD DETAILS AND DETAIL SHEETS FOR ADDITIONAL INFORMATION.

DRAWING NOTES:

- 1. CONNECT NEW 100Ø SANITARY DRAINAGE PIPE TO EXISTING 100Ø SANITARY PIPE RISER AND EXTEND AS 2. 12Ø DOMESTIC HOT AND COLD WATER PIPES DOWN TO SINK, 32Ø VENT LINE UP FROM SINK, AND 38Ø SANITARY DRAIN DOWN TO BELOW COUNTER GREASE INTERCEPTOR AND DOWN TO CEILING SPACE OF (BASEMENT) FLOOR BELOW. ROUGH-IN AND FINAL CONNECTION FOR TWO AT 12Ø (1/2"Ø) ONE VALVED AND
- COLD WATER CONNECTION FOR FUTURE CLIENT SUPPLIED APPLIANCE. PROVIDE NEW GREASE INTERCEPTER UNDER SINK. 3. 12Ø DOMESTIC HOT AND COLD WATER PIPES DOWN TO MOP SINK, 32Ø VENT LINE UP FROM MOP SINK, AND 38Ø SANITARY DRAIN DOWN FROM MOP SINK TO CEILING SPACE OF (BASEMENT) FLOOR BELOW.

CAPPED DOMESTIC HOT WATER CONNECTION FOR DISHWASHER AND ONE VALVED AND CAPPED DOMESTIC

AND 32Ø SANITARY DRAIN DOWN FROM LAVATORY TO NEW 75Ø SANITARY PIPING AS INDICATED. 5. 12Ø DOMESTIC HOT AND COLD WATER PIPES DOWN TO LAVATORY, 32Ø VENT LINE UP FROM LAVATORY,

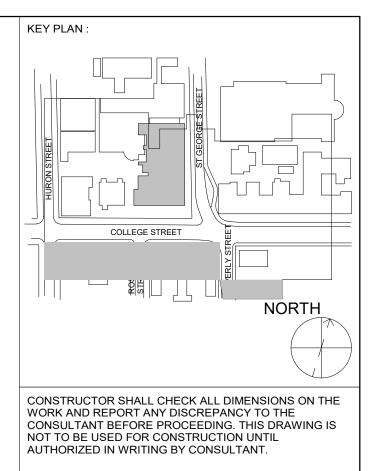
4. 12Ø DOMESTIC HOT AND COLD WATER PIPES DOWN TO LAVATORY, 32Ø VENT LINE UP FROM LAVATORY,

- AND 32Ø SANITARY DRAIN DOWN FROM LAVATORY TO CEILING SPACE OF (BASEMENT) FLOOR BELOW. 6. 25Ø DOMESTIC COLD WATER PIPE DOWN TO WATERCLOSET, 50Ø VENT LINE UP FROM WATERCLOSET, AND 75Ø SANITARY DRAIN DOWN FROM WATERCLOSET TO NEW 75Ø SANITARY PIPING AS INDICATED.
- 7. 25Ø DOMESTIC COLD WATER PIPE DOWN TO WATERCLOSET, 50Ø VENT LINE UP FROM WATERCLOSET, AND 75Ø SANITARY DRAIN DOWN FROM WATERCLOSET TO CEILING SPACE OF (BASEMENT) FLOOR BELOW. 8. PROVIDE AND INSTALL NEW WALL MOUNTED DUCTLESS SPLIT A/C COMPLETE WITH REFRIGERANT LINES AND CONDENSATE PUMP. NEW 25Ø CONDENSATE DRAIN FROM SPLIT A/C TO TERMINATE INDIRECTLY OVER
- 9. PROVIDE NEW 100Ø STORM DRAIN FROM NEW TRENCH DRAIN AND DISCHARGE OPEN ENDED TO DRY BASIN BELOW PLANTER FOR IRRIGATION. REFER TO ARCHITECTURAL DRAWING FOR ELEVATION. 10. PROVIDE NEW TRENCH DRAIN. TRENCH DRAIN SHALL BE J.R. SMITH #9660, 150MM WIDE STAINLESS STEEL CONTINUOUS TRENCH DRAIN SYSTEM. SNOWMELT SYSTEM FOR TRENCH DRAIN BY ELECTRICAL WATER PIPES IN THE CEILING SPACE OF THIS FLOOR AND EXTEND AS INDICATED.
- 11. CONNECT NEW 12Ø DOMESTIC HOT AND COLD WATER PIPES TO EXISTING 12Ø DOMESTIC HOT AND COLD 12. 12Ø DOMESTIC HOT AND COLD WATER PIPES UP TO SINK ON FLOOR ABOVE AND 38Ø SANITARY DRAIN DOWN FROM SINK ON FLOOR ABOVE DOWN TO CEILING OF THIS FLOOR.

13. 25Ø DOMESTIC COLD WATER PIPE UP TO WATER CLOSET ON FLOOR ABOVE AND 75Ø SANITARY DRAIN

DOWN FROM WATER CLOSET ON FLOOR ABOVE DOWN TO CEILING OF THIS FLOOR.

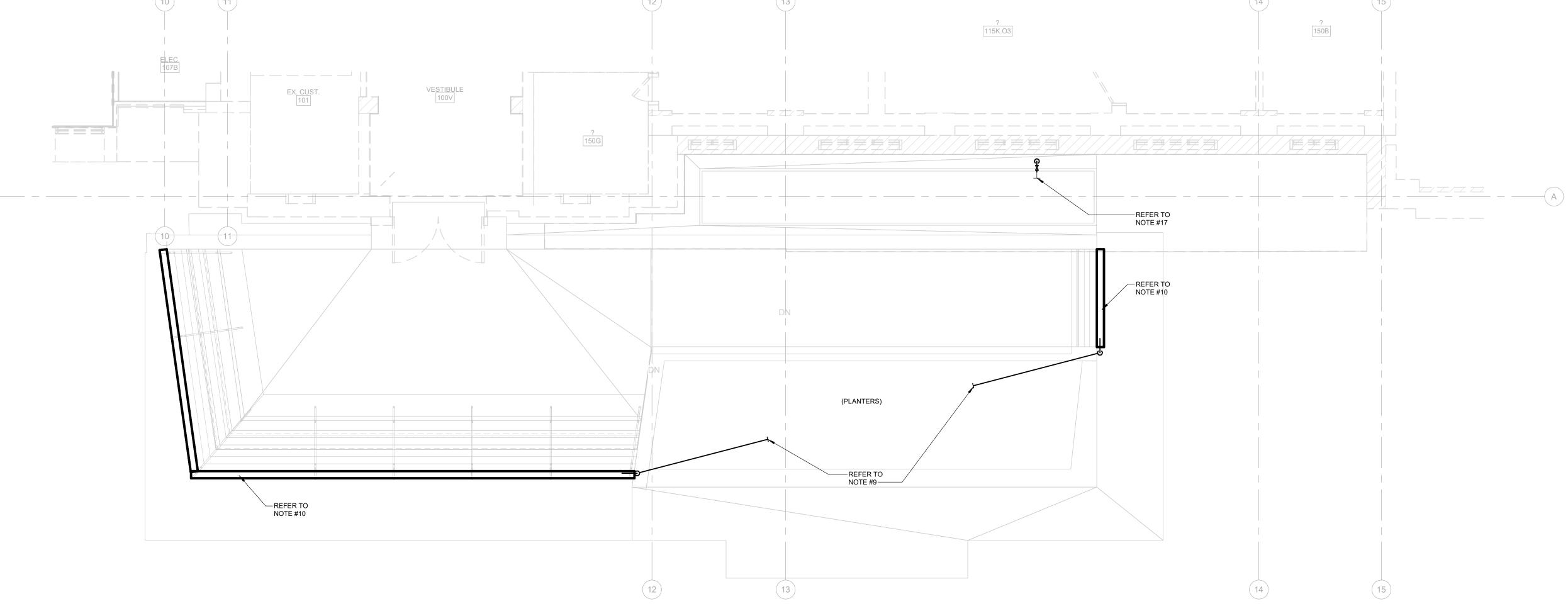
- 14. 12Ø DOMESTIC COLD WATER PIPE UP TO DRINKING FOUNTAIN ON FLOOR ABOVE AND 38Ø SANITARY DRAIN DOWN FROM DRINKING FOUNTAIN ON FLOOR ABOVE DOWN TO CEILING OF THIS FLOOR. 15. ALLOW FOR 3 HOURS OF INVESTIGATION OF EXISTING PLUMBING STUB-OUTS TO TRACE PIPING BACK TO
- MAIN SOURCE. REMOVE AND CAP EXISTING PLUMBING PIPING AS CLOSE TO SOURCE AS POSSIBLE. ALLOW FOR REMOVAL OF 30'-0" OF PIPING OF EACH PLUMBING SERVICE. 16. 12Ø DOMESTIC HOT AND COLD WATER PIPES DOWN TO SINK, 38Ø VENT LINE UP FROM SINK, AND 38Ø SANITARY DRAIN DOWN FROM SINK TO CEILING SPACE OF (BASEMENT) FLOOR BELOW.
- 17. PROVIDE NEW 19Ø WALL MOUNTED HOSE BIB FOR FUTURE IRRIGATION CONNECTION. HOSE BIB SHALL BE IN A LOCKABLE BOX AND RECESSED INTO THE NEW PLANTER. EXACT LOCATION TO BE COORDINATED ON 18. 25Ø DOMESTIC COLD WATER PIPE CAPPED CONNECTION COMPLETE WITH SHUT-OFF VALVE AND WATER
- CHECK METER FOR FUTURE TENANT. 19. 50Ø VENT PIPE CAPPED CONNECTION FOR FUTURE TENANT. 20. PROVIDE AND INSTALL NEW UNDER COUNTER GREASE INTERCEPTOR COMPLETE WITH COUPLING ON SIDE
- AND THREADED CONNECTION FOR GREASE PUMP CONNECTION. GREASE INTERCEPTOR SHALL BE RATED FOR 34 GPM AND 70 LB GREASE HOLDING CAPACITY. 21. PROVIDE 19Ø CAPPED DOMESTIC HOT AND COLD WATER LINES FOR FUTURE CLIENT SUPPLIED WASHER. 22. ALLOW FOR 3 HOURS OF INVIESTIGATION AND TO REMOVE AND RE-ROUTE EXISTING PIPE. 23. 12Ø DOMESTIC HOT AND COLD WATER PIPES UP TO MOP SINK ON FLOOR ABOVE AND 75Ø SANITARY DRAIN DOWN FROM MOP SINK ON FLOOR ABOVE DOWN TO CEILING OF THIS FLOOR. 24. PROVIDE NEW ELECTRONIC TRAP SEAL PRIMER. COORDINATE POWER REQUIREMENTS WITH ELECTRICAL



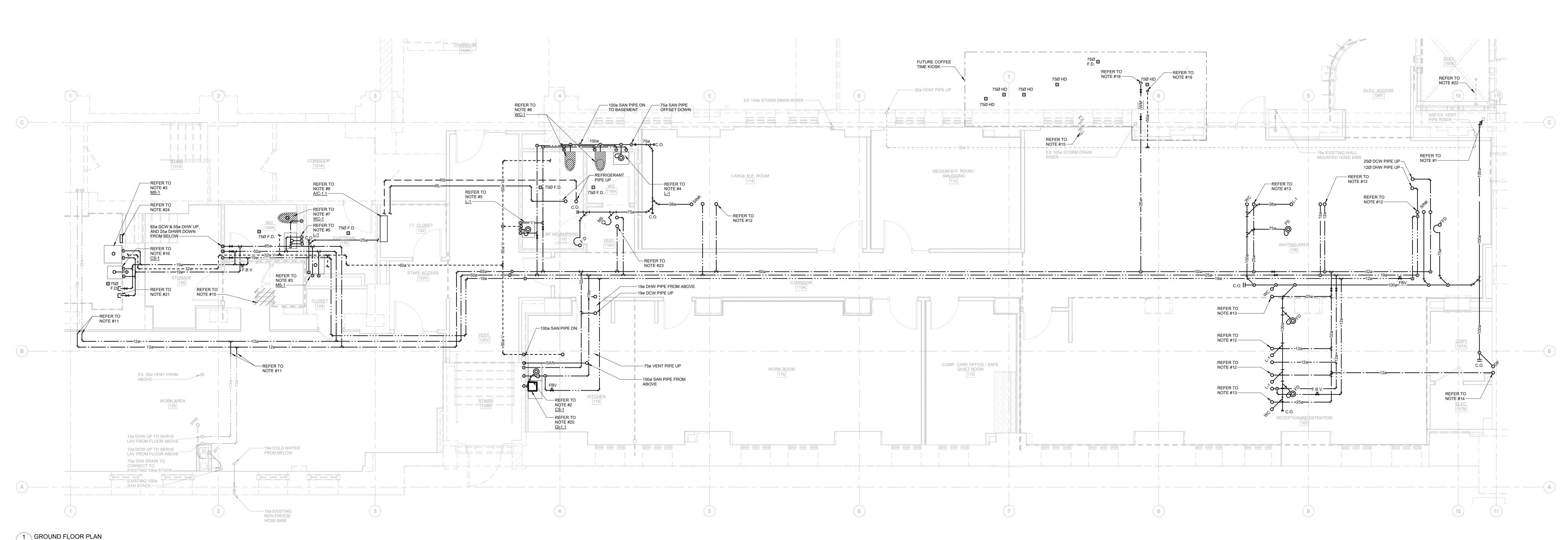
DESCRIPTION 2024-10-04 ISSUED FOR 50% REVIEW 2024-11-01 PROGRESS ISSUANCE 2024-11-14 ISSUED FOR PERMIT 2024-12-04 ISSUED FOR F&S REVIEW 2025-01-24 ISSUED FOR PEER REVIEW 2025-01-31 ISSUED FOR BID 2025-03-24 Bid Addendum #04 2025-04-30 ISSUED FOR CONSTRUCTION

THIS DRAWING IS "ISSUED FOR CONSTRUCTION" AND IS CONSIDERED COMPLEMENTARY TO THE CONTRACT DOCUMENTS. TO THE BEST OF OUR KNOWLEDGE IT IS AN ACCURATE REPRESENTATION OF DOCUMENTED REVISIONS. IN THE CASE OF ANY DISCREPANCY, OMISSION OR CONFLICT BETWEEN THIS "ISSUED FOR CONSTRUCTION" DOCUMENT AND THE CONTRACT DOCUMENTS THE CONTRACTOR IS TO PROMPTLY BRING IT TO THE ATTENTION OF THE

CONSULTANT.



2 ENLARGED BUILDING EXTERIOR PLUMBING PLAN
1:50





Smith + Andersen
1100 - 100 Sheppard Ave East, Toronto ON, M2N 6N5
t 416 487 8151 smithandandersen.com

ENFORM Architects Inc. 128A Sterling Road, Suite 302B Toronto, Ontario, Canada M6R 2B7 t: 647-948-7523 www.enformarchitects.com

UNIVERSITY OF

HEALTH AND WELLNESS CENTRE RENOVATION AT

214 COLLEGE ST, TORONTO, ON M5T 3A1

SHEET CONTENTS: **GROUND FLOOR - PLUMBING AND PIPING LAYOUT**

PROJECT NUMBER : 21590.003 DRAWING SCALE RC/DC 2024-02-08

TM-1.2

GENERAL NOTES: DRAWING NOTES: 1. DO NOT SCALE DRAWINGS. THE LOCATIONS OF ALL ITEMS SHOWN ON THE DRAWINGS OR SPECIFIED THAT 1. CAP AND REMOVE EXISTING 50Ø VENT LINE AS CLOSE TO MAIN SOURCE AS POSSIBLE. ALLOW FOR ARE NOT DEFINITELY FIXED BY DIMENSIONS ARE APPROXIMATE. DETERMINE THE EXACT LOCATIONS REMOVAL OF AN ADDITIONAL 5.0 METERS OF PIPING THAN SHOWN ON DRAWING. NECESSARY TO SECURE THE BEST CONDITIONS AND RESULTS BASED ON SITE CONDITIONS. REVIEW ALL REVISIONS WITH THE CONSULTANT. 2. CAP AND REMOVE EXISTING 38Ø SANITARY DRAIN AS CLOSE TO MAIN SOURCE AS POSSIBLE. ALLOW FOR REMOVAL OF AN ADDITIONAL 5.0 METERS OF PIPING THAN SHOWN ON DRAWING. 2. READ FLOOR PLANS IN CONJUNCTION WITH SCHEMATICS. ASSUME INFORMATION SHOWN ON FLOOR PLANS TO BE APPLICABLE TO THE RELATED SYSTEM SCHEMATIC AND VICE-VERSA TO PROVIDE A COMPLETE AND 3. CAP AND REMOVE EXISTING 75Ø SANITARY DRAIN AS CLOSE TO MAIN SOURCE AS POSSIBLE. ALLOW FOR OPERATIONAL SYSTEM. REMOVAL OF AN ADDITIONAL 5.0 METERS PIPING NOT SHOWN ON THE DRAWING. 3. VERIFY STRUCTURAL INTEGRITY OF ALL TEMPORARY AND PERMANENT OPENINGS. PROVIDE ADDITIONAL 4. CAP AND REMOVE EXISTING FLOOR DRAIN COMPLETE WITH ASSOCIATED P-TRAP AND SANITARY DRAINAGE FRAMING TO ENSURE STRUCTURAL INTEGRITY AS REQUIRED. IN THE CEILING PLENUM OF 2ND FLOOR BELOW. PIPING TO BE TERMINATED AS CLOSE TO MAIN SOURCE AS POSSIBLE. ALLOW FOR REMOVAL OF AN ADDITIONAL 5.0 METERS OF PIPING NOT SHOWN ON THE DRAWING. 4. REFER TO THE STANDARD DETAILS AND DETAIL SHEETS FOR ADDITIONAL INFORMATION. 5. REMOVE EXISTING SINK AND FIXTURES. CAP AND REMOVE ALL ASSOCIATED SERVICES, HANGERS AND PIPING AS INDICATED OR AS CLOSE TO SOURCE AS POSSIBLE. ALLOW FOR REMOVAL OF 5.0 METERS OF PIPING OF EACH SERVICE. 6. REMOVE EXISTING CEILING MOUNTED WATER CHILLER AND ASSSOCIATED APPURTENANCES (DRIP PAN, ETC.). REMOVE AND CAP EXISTING SERVICES AS CLOSE TO SOURCE AS POSSIBLE. ELECTRICAL DISCONNECTION BY ELECTRICAL DIVISION. EX. 38ø VENT DOWN TO FLOOR DRAIN_____ EX. 19ø DHW -----EX. 65ø DCW -----WATER HEATER — EX. 100ø SAN AND VENT RISER UP AND DOWN EX.75ø VENT STACKS DOWN - - -38ø DHW - - +D - —65ø DCW 32ø CONDENSATE PIPE FROM ABOVE, DRAIN TO INDIRECT DRAIN RISER FOR SPRINKLER DRAINGE. ---DRAIN RISER EXISTING STORM DRAIN RISER ——— FROM ABOVE —— REFER TO NOTE #2 —REFER TO EXISTING STORM DRAIN RISER— — EXISTING 100ø STORM DRAIN AND 100ø VENT RISERS REFER TO NOTE #2 REFER TO NOTE #2 EX. 50ø VENT FROM 12ø DCW & DHW FROM BELOW, 32ø VENT UP 12ø DCW FROM BELOW, 40ø VENT UP

KEY PLAN: CONSTRUCTOR SHALL CHECK ALL DIMENSIONS ON THE WORK AND REPORT ANY DISCREPANCY TO THE CONSULTANT BEFORE PROCEEDING. THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION UNTIL AUTHORIZED IN WRITING BY CONSULTANT.

> REVISION DESCRIPTION

2024-11-01 PROGRESS ISSUANCE 2024-11-14 ISSUED FOR PERMIT 2024-12-04 ISSUED FOR F&S REVIEW 2025-01-24 ISSUED FOR PEER REVIEW 2025-04-30 ISSUED FOR CONSTRUCTION

2024-10-04 ISSUED FOR 50% REVIEW

THIS DRAWING IS "ISSUED FOR CONSTRUCTION" AND IS CONSIDERED COMPLEMENTARY TO THE CONTRACT DOCUMENTS. TO THE BEST OF OUR KNOWLEDGE IT IS AN ACCURATE

REPRESENTATION OF DOCUMENTED REVISIONS. IN THE CASE OF ANY DISCREPANCY, OMISSION OR

CONFLICT BETWEEN THIS "ISSUED

AND THE CONTRACT DOCUMENTS, THE CONTRACTOR IS TO PROMPTLY

BRING IT TO THE ATTENTION OF THE

CONSULTANT.

FOR CONSTRUCTION" DOCUMENT



architects ENFORM Architects Inc. 128A Sterling Road, Suite 302B Toronto, Ontario, Canada M6R 2B7 t: 647-948-7523

www.enformarchitects.com

UNIVERSITY OF TORONTO

HEALTH AND WELLNESS CENTRE RENOVATION AT KOFFLER

214 COLLEGE ST, TORONTO, ON M5T 3A1 SHEET CONTENTS: SECOND FLOOR - PLUMBING

AND PIPING DEMOLITION

PROJECT NUMBER: 21590.003
DRAWING SCALE: 1:100

LAYOUT

CHECKED BY: 2024-02-08

TM-2.2.1

GENERAL NOTES:

FROM ABOVE ----

REFER TO NOTE #8 L-1

25Ø DCW PIPE UP 12Ø DHW

REFRIGERANT

PIPE UP

NOTE #6

REFER TO NOTE #8 <u>L-1</u>

REFER TO NOTE #19

REFER TO NOTE #11

PIPE UP —

VENT RISER UP AND DOWN

- FXISTING 100ø STORM DRAIN

DHW FROM BELOW

AND 100ø VENT RISERS

REFER TO NOTE #3

REFRIGERANT

REFRIGERANT PIPE FROM BELOW———

TO GROUND FLOOR —

EX. 50ø VENT FROM

12ø DCW & DHW FROM BELOW, 32ø VENT UP 12ø DCW FROM BELOW, 40ø VENT UP

1. DO NOT SCALE DRAWINGS. THE LOCATIONS OF ALL ITEMS SHOWN ON THE DRAWINGS OR SPECIFIED THAT ARE NOT DEFINITELY FIXED BY DIMENSIONS ARE APPROXIMATE. DETERMINE THE EXACT LOCATIONS

NECESSARY TO SECURE THE BEST CONDITIONS AND RESULTS BASED ON SITE CONDITIONS. REVIEW ALL REVISIONS WITH THE CONSULTANT. 2. READ FLOOR PLANS IN CONJUNCTION WITH SCHEMATICS. ASSUME INFORMATION SHOWN ON FLOOR PLANS

TO BE APPLICABLE TO THE RELATED SYSTEM SCHEMATIC AND VICE-VERSA TO PROVIDE A COMPLETE AND

3. CONNECT NEW 50Ø VENT PIPE TO EXISTING 75Ø VENT PIPE AND EXTEND AS INDICATED. 3. VERIFY STRUCTURAL INTEGRITY OF ALL TEMPORARY AND PERMANENT OPENINGS. PROVIDE ADDITIONAL FRAMING TO ENSURE STRUCTURAL INTEGRITY AS REQUIRED.

4. REFER TO THE STANDARD DETAILS AND DETAIL SHEETS FOR ADDITIONAL INFORMATION.

DRAWING NOTES:

FLOOR BELOW.

1. CONNECT NEW DOMESTIC COLD WATER PIPING TO EXISTING DOMESTIC COLD WATER PIPING AND EXTEND AS INDICATED. REFER TO DRAWING FOR PIPE SIZES. CONNECT NEW DOMESTIC HOT WATER PIPING TO EXSITING DOMESTIC HOT WATER PIPING AND EXTEND AS INDICATED. REFER TO DRAWING FOR PIPE SIZES.

4. CONNECT NEW 100Ø SANITARY DRAINAGE PIPE TO EXISTING 100Ø SANITARY PIPE RISER AND EXTEND AS 5. 12Ø DOMESTIC HOT AND COLD WATER PIPES DOWN TO SINK, 32Ø VENT LINE UP FROM SINK, AND 38Ø SANITARY DRAIN DOWN FROM SINK TO CEILING SPACE OF (GROUND) FLOOR BELOW.

6. $12\emptyset$ DOMESTIC HOT AND COLD WATER PIPES UP FROM FLOOR BELOW TO SINK, $32\emptyset$ VENT LINE UP FROM SINK, AND 38Ø SANITARY DRAIN DOWN FROM SINK TO CEILING SPACE OF (GROUND) FLOOR BELOW. 7. 12Ø DOMESTIC HOT AND COLD WATER PIPES DOWN TO LAVATORY, 32Ø VENT LINE UP FROM LAVATORY, AND 32Ø SANITARY DRAIN DOWN FROM LAVATORY TO CEILING SPACE OF (GROUND) FLOOR BELOW. 8. 12Ø DOMESTIC HOT AND COLD WATER PIPES UP FROM FLOOR BELOW TO LAVATORY, 32Ø VENT LINE UP FROM LAVATORY, AND 32Ø SANITARY DRAIN DOWN FROM LAVATORY TO CEILING SPACE OF (GROUND)

> PIPE UP 12Ø DCW PIPE UP-

12ø DHWR TO LAVS----

NOTE #2-

12Ø DCW PIPE UP ----

32ø VENT, 12ø DCW, 12ø

19ø DHW TO MAIN PIPES—

EX. 38ø VENT DOWN TO FLOOR DRAIN — CONNECT NEW 25ø AND

EX. 19ø DHW —

EX. 65ø DCW ----

WATER HEATER-

EX. 100ø SAN AND

EX.75ø VENT STACKS DO\

NOTE #4 ---12Ø DCW PIPE UP-

REFER TO NOTE #5

REFER TO NOTE #5

EXISTING STORM DRAIN RISER—

NOTE #2

REFER TO REFER TO NOTE #1

REFER TO NOTE #2 25ø DCW

32ø DCW PIPE UP

100ø SAN PIPE DOWN

REFER TO

NOTE #1

-RELOCATED 75ø VENT RISER UP

DRAIN RISER

NOTE #1-

9. 25Ø DOMESTIC COLD WATER PIPE DOWN TO WATERCLOSET, 50Ø VENT LINE UP FROM WATERCLOSET, AND 75Ø SANITARY DRAIN DOWN FROM WATERCLOSET TO CEILING SPACE OF (GROUND) FLOOR BELOW. 10. 25Ø DOMESTIC COLD WATER PIPE UP FROM FLOOR BELOW TO WATERCLOSET, 50Ø VENT LINE UP FROM WATERCLOSET, AND 75Ø SANITARY DRAIN DOWN FROM WATERCLOSET TO CEILING SPACE OF (GROUND)

11. 12Ø DOMESTIC COLD WATER PIPE UP FROM FLOOR BELOW TO DRINKING FOUNTAIN, 32Ø VENT AND 32Ø SANITARY DRAIN DOWN FROM DRINKING FOUNTAIN TO CEILING SPACE OF (GROUND) FLOOR BELOW. 12. 12Ø DOMESTIC COLD WATER PIPE UP TO DRINKING FOUNTAIN ON FLOOR ABOVE, 32Ø SANITARY DRIAN DOWN FROM DRINKING FOUNTAIN ON FLOOR ABOVE. 13. 12Ø DOMESTIC HOT AND COLD WATER PIPES UP TO LAVATORY ON FLOOR ABOVE, 32Ø SANITARY DRAIN

DOWN FROM LAVATORY ON FLOOR ABOVE. 14. 12Ø DOMESTIC HOT AND COLD WATER PIPES UP TO SINK ON FLOOR ABOVE, 38Ø SANITARY DRAIN DOWN FROM SINK ON FLOOR ABOVE. (TYPICAL) 15. PROVIDE NEW FLOOR DRAINS COMPLETE WITH TRAPS AND TRAP PRIMERS. (TYPICAL)

16. PROVIDE AND INSTALL NEW WALL MOUNTED DUCTLESS SPLIT A/C COMPLETE WITH REFRIGERANT LINES

AND CONDENSATE PUMP. NEW 25Ø CONDENSATE DRAIN FROM SPLIT A/C TO EXTEND AS INDICATED AND TERMINATE INDIRECTLY OVER FUNNEL FLOOR DRAIN BELOW COUNTER SINK. 17. PROVIDE NEW WATER TIGHT DRIP PAN UNDER NEW/EXISTING PLUMBING SERVICES COMPLETE WITH MOISTURE SENSOR TIED INTO AUDIBLE ALARM WITHIN CEILING SPACE FOR MONITORING. 25 DRIP PAN DRAIN TO TERMINATE INDIRECTLY OVER 75Ø FUNNEL FLOOR DRAIN AS INDICATED. 18. CONNECT NEW HEATING WATER SUPPLY PIPES TO EXISTING PIPING ON THIS FLOOR AND EXTEND AS

INDICATED. INCLUDE FOR PIPE FREEZING TO FACILITATE NEW CONNECTION WITHOUT DISTURBANCE TO EXISTING SERVICES. SIZE AS INDICATED ON DRAWING. 19. CONNECT NEW HEATING WATER RETURN PIPES TO EXISTING PIPING ON THIS FLOOR AND EXTEND AS INDICATED. SYSMTEM SHALL FOLLOW A REVERSE RETURN PIPING CONFIGURATION. INCLUDE FOR PIPE FREEZING TO FACILITATE NEW CONNECTION WITHOUT DISTURBANCE TO EXISTING SERVICES. SIZE AS INDICATED ON DRAWING.

20. 12Ø DOMESTIC HOT AND COLD WATER PIPES DOWN TO COUNTER SINK, 32Ø VENT LINE UP FROM SINK, AND 32Ø SANITARY DRAIN DOWN FROM SINK TO CEILING SPACE OF FLOOR BELOW AND TO CONNECT TO EXISTING PIPE OF EQUAL OR LARGER SIZE. 21. OFFSET NEW SANITARY, DOMESTIC COLD AND HOT WATER AS REQUIRED TO AVOID INTERFERENCE WITH

EXISTING BEAM. (TYPICAL) 22. ALLOW FOR THE REWORK OF EXISTING HEATING WATER SUPPLY PIPING AND INSTALL NEW CONTROL VALVE WITHIN EXISTING PERIMETER RADIATION UNIT ENCLOSURE. INTERFACE WITH NEW DDC VAV BOX CONTROLS. COORDINATE WORK ON SITE. WORK SHALL BE PERFORMED BY XX. (TYPICAL) 23. CONNECT NEW 75Ø SANITARY DRAINAGE PIPE TO EXISTING 100Ø SANITARY PIPE RISER AND EXTEND AS

24. COORDINATE CEILING DEMOLITION AND REINSTALLATION WITH THE ARCHITECT.

NOTE #2 —REFER TO NOTE #1

-12Ø DHW

REFER TO

NOTE #2

REFER TO

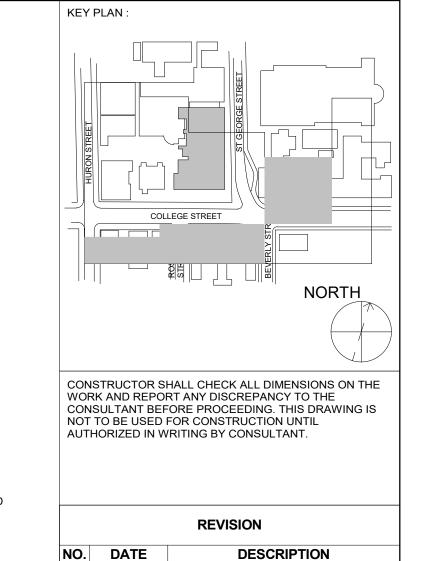
DRAIN RISER

PIPE UP

—12Ø DHW

PIPE UP

2024-11-01 PROGRESS ISSUANCE 2024-11-14 ISSUED FOR PERMIT



2024-10-04 ISSUED FOR 50% REVIEW

THIS DRAWING IS "ISSUED FOR REPRESENTATION OF DOCUMENTED REVISIONS. IN THE CASE OF ANY THE CONTRACTOR IS TO PROMPTLY BRING IT TO THE ATTENTION OF THE CONSULTANT.



1100 - 100 Sheppard Ave East, Toronto ON, M2N 6N5 t 416 487 8151 smithandandersen.com

architects ENFORM Architects Inc. 128A Sterling Road, Suite 302B Toronto, Ontario, Canada M6R 2B7 t: 647-948-7523 www.enformarchitects.com



UNIVERSITY OF

HEALTH AND WELLNESS CENTRE RENOVATION AT KOFFLER

214 COLLEGE ST, TORONTO, ON M5T 3A1 SHEET CONTENTS: SECOND FLOOR - PLUMBING

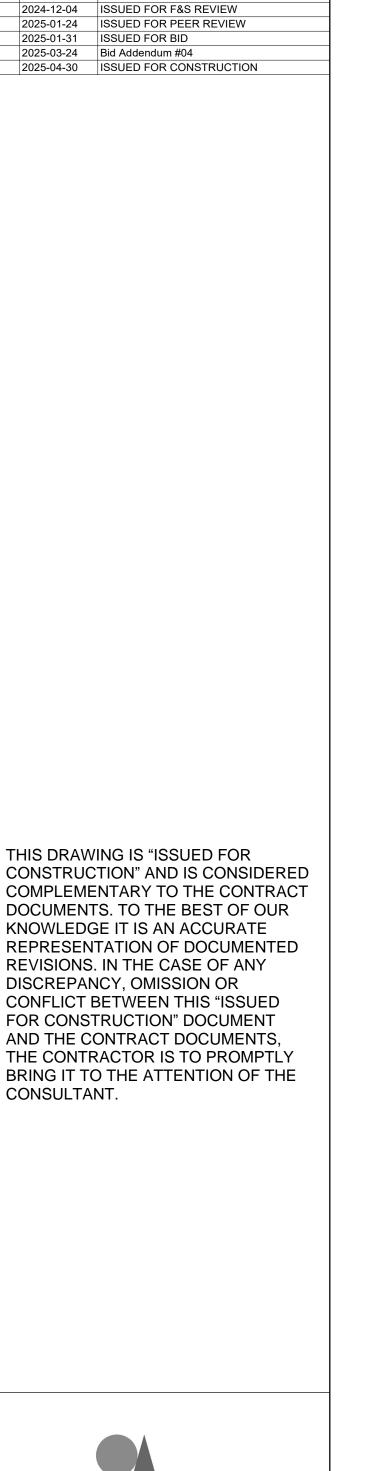
PROJECT NUMBER : 21590.003
DRAWING SCALE:

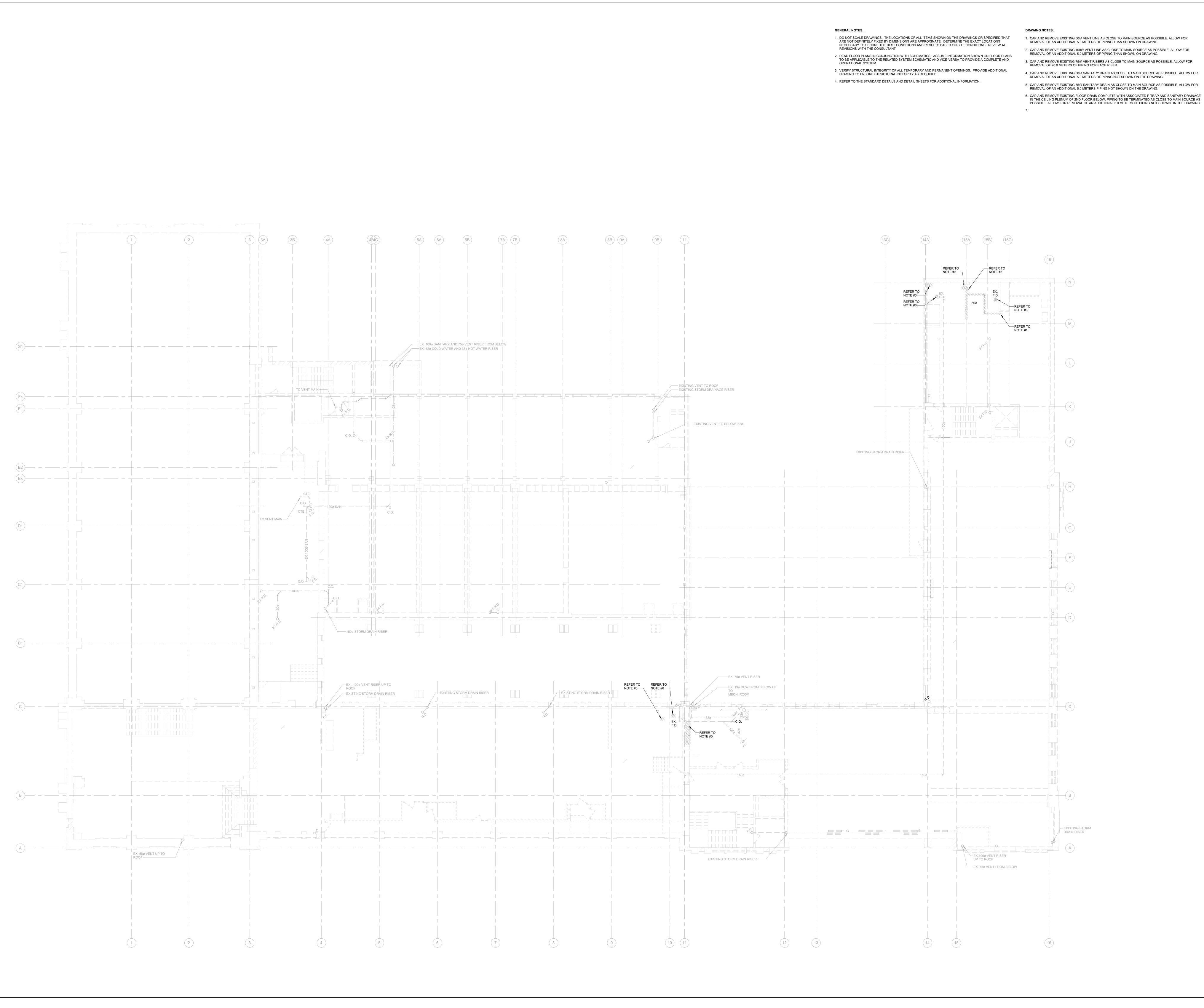
2024-02-08

AND PIPING LAYOUT

RC/DC

TM-2.2





- 1. CAP AND REMOVE EXISTING 50Ø VENT LINE AS CLOSE TO MAIN SOURCE AS POSSIBLE. ALLOW FOR REMOVAL OF AN ADDITIONAL 5.0 METERS OF PIPING THAN SHOWN ON DRAWING. 2. CAP AND REMOVE EXISTING 100Ø VENT LINE AS CLOSE TO MAIN SOURCE AS POSSIBLE. ALLOW FOR
- 3. CAP AND REMOVE EXISTING 75Ø VENT RISERS AS CLOSE TO MAIN SOURCE AS POSSIBLE. ALLOW FOR
- 4. CAP AND REMOVE EXISTING 38Ø SANITARY DRAIN AS CLOSE TO MAIN SOURCE AS POSSIBLE. ALLOW FOR REMOVAL OF AN ADDITIONAL 5.0 METERS OF PIPING NOT SHOWN ON THE DRAWING. 5. CAP AND REMOVE EXISTING 75Ø SANITARY DRAIN AS CLOSE TO MAIN SOURCE AS POSSIBLE. ALLOW FOR
- REMOVAL OF AN ADDITIONAL 5.0 METERS PIPING NOT SHOWN ON THE DRAWING. 6. CAP AND REMOVE EXISTING FLOOR DRAIN COMPLETE WITH ASSOCIATED P-TRAP AND SANITARY DRAINAGE IN THE CEILING PLENUM OF 2ND FLOOR BELOW. PIPING TO BE TERMINATED AS CLOSE TO MAIN SOURCE AS

CONSTRUCTOR SHALL CHECK ALL DIMENSIONS ON THE WORK AND REPORT ANY DISCREPANCY TO THE CONSULTANT BEFORE PROCEEDING. THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION UNTIL

AUTHORIZED IN WRITING BY CONSULTANT.

2024-10-04 ISSUED FOR 50% REVIEW 2024-11-01 PROGRESS ISSUANCE 2024-11-14 ISSUED FOR PERMIT 2024-12-04 ISSUED FOR F&S REVIEW 2025-01-24 ISSUED FOR PEER REVIEW

2025-04-30 ISSUED FOR CONSTRUCTION

THIS DRAWING IS "ISSUED FOR CONSTRUCTION" AND IS CONSIDERED COMPLEMENTARY TO THE CONTRACT DOCUMENTS. TO THE BEST OF OUR KNOWLEDGE IT IS AN ACCURATE REPRESENTATION OF DOCUMENTED REVISIONS. IN THE CASE OF ANY DISCREPANCY, OMISSION OR CONFLICT BETWEEN THIS "ISSUED FOR CONSTRUCTION" DOCUMENT AND THE CONTRACT DOCUMENTS, THE CONTRACTOR IS TO PROMPTLY BRING IT TO THE ATTENTION OF THE CONSULTANT.



architects ENFORM Architects Inc. 128A Sterling Road, Suite 302B Toronto, Ontario, Canada M6R 2B7 t: 647-948-7523

www.enformarchitects.com

UNIVERSITY OF

HEALTH AND WELLNESS CENTRE RENOVATION AT KOFFLER

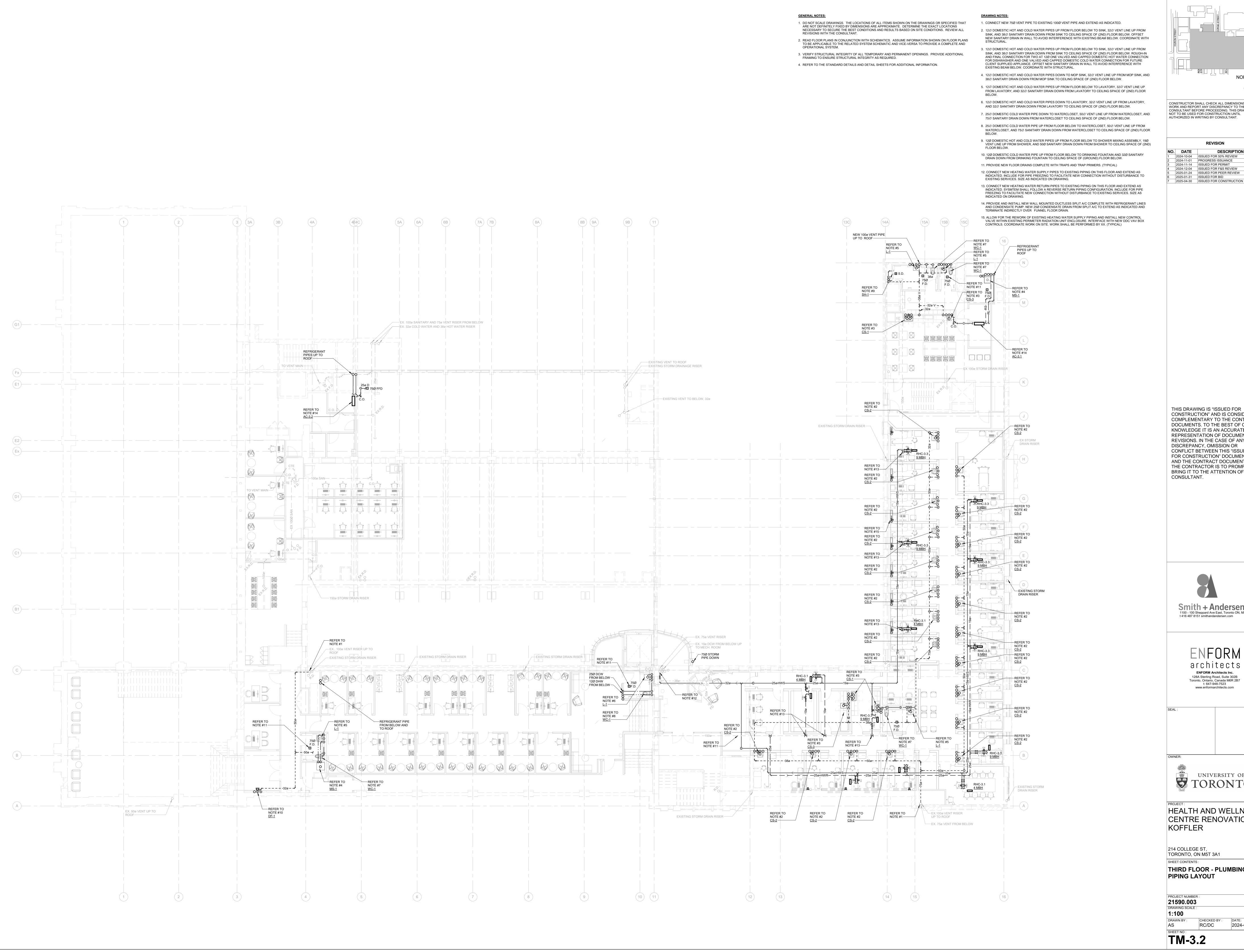
214 COLLEGE ST, TORONTO, ON M5T 3A1 SHEET CONTENTS: THIRD FLOOR - PLUMBING AND

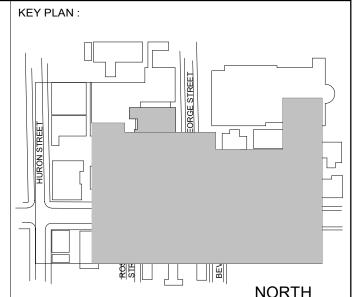
PIPING DEMOLITION LAYOUT

PROJECT NUMBER: 21590.003
DRAWING SCALE: 1:100 DRAWN BY :

CHECKED BY: DATE: 2024-02-08

TM-3.2.1





CONSTRUCTOR SHALL CHECK ALL DIMENSIONS ON THE WORK AND REPORT ANY DISCREPANCY TO THE CONSULTANT BEFORE PROCEEDING. THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION UNTIL

DESCRIPTION

2024-10-04 ISSUED FOR 50% REVIEW 2024-11-01 PROGRESS ISSUANCE 2024-11-14 ISSUED FOR PERMIT 2024-12-04 ISSUED FOR F&S REVIEW 2025-01-24 ISSUED FOR PEER REVIEW 2025-01-31 ISSUED FOR BID

THIS DRAWING IS "ISSUED FOR DOCUMENTS. TO THE BEST OF OUR KNOWLEDGE IT IS AN ACCURATE REPRESENTATION OF DOCUMENTED REVISIONS. IN THE CASE OF ANY DISCREPANCY, OMISSION OR CONFLICT BETWEEN THIS "ISSUED FOR CONSTRUCTION" DOCUMENT AND THE CONTRACT DOCUMENTS, THE CONTRACTOR IS TO PROMPTLY BRING IT TO THE ATTENTION OF THE



architects ENFORM Architects Inc. 128A Sterling Road, Suite 302B Toronto, Ontario, Canada M6R 2B7 t: 647-948-7523 www.enformarchitects.com

UNIVERSITY OF TORONTO

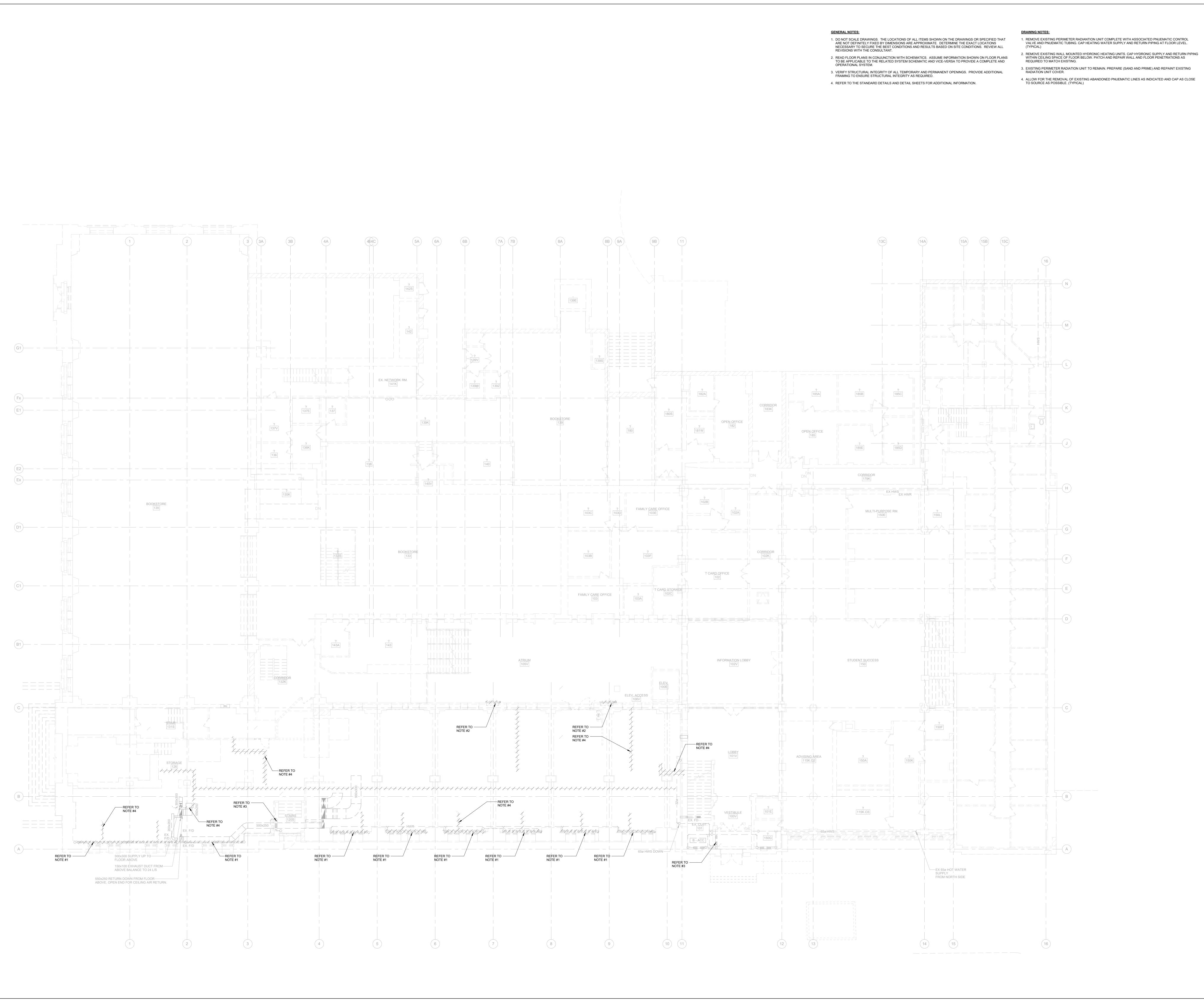
HEALTH AND WELLNESS CENTRE RENOVATION AT

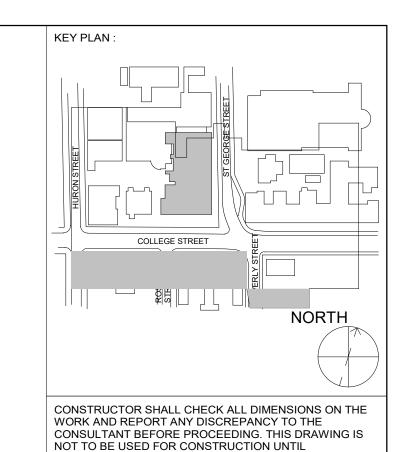
214 COLLEGE ST, TORONTO, ON M5T 3A1

THIRD FLOOR - PLUMBING AND PIPING LAYOUT

CHECKED BY:

DATE: 2024-02-08





2024-10-04 ISSUED FOR 50% REVIEW 2024-11-01 PROGRESS ISSUANCE 2024-11-14 ISSUED FOR PERMIT 2024-12-04 ISSUED FOR F&S REVIEW 2025-01-24 ISSUED FOR PEER REVIEW 2025-01-31 ISSUED FOR BID 2025-04-30 ISSUED FOR CONSTRUCTION

AUTHORIZED IN WRITING BY CONSULTANT.

THIS DRAWING IS "ISSUED FOR CONSTRUCTION" AND IS CONSIDERED COMPLEMENTARY TO THE CONTRACT DOCUMENTS. TO THE BEST OF OUR KNOWLEDGE IT IS AN ACCURATE REPRESENTATION OF DOCUMENTED REVISIONS. IN THE CASE OF ANY DISCREPANCY, OMISSION OR CONFLICT BETWEEN THIS "ISSUED FOR CONSTRUCTION" DOCUMENT AND THE CONTRACT DOCUMENTS, THE CONTRACTOR IS TO PROMPTLY BRING IT TO THE ATTENTION OF THE CONSULTANT.



architects ENFORM Architects Inc. 128A Sterling Road, Suite 302B Toronto, Ontario, Canada M6R 2B7 t: 647-948-7523 www.enformarchitects.com

UNIVERSITY OF

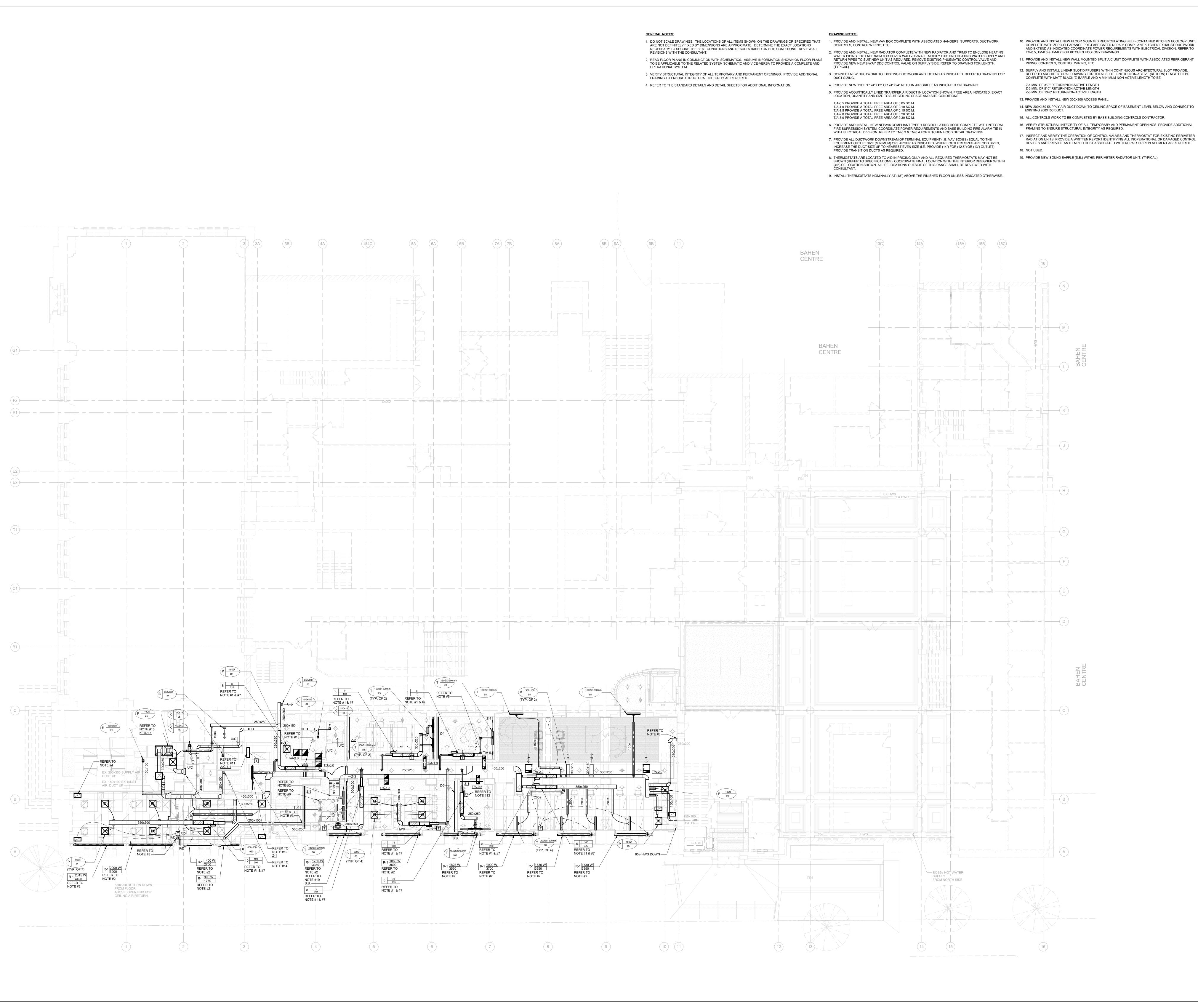
HEALTH AND WELLNESS CENTRE RENOVATION AT

214 COLLEGE ST, TORONTO, ON M5T 3A1

SHEET CONTENTS: **GROUND FLOOR - H.V.A.C. DEMOLITION LAYOUT**

PROJECT NUMBER : 21590.003 DRAWING SCALE : RC/DC

2024-02-08



10. PROVIDE AND INSTALL NEW FLOOR MOUNTED RECIRCULATING SELF- CONTAINED KITCHEN ECOLOGY UNIT. COMPLETE WITH ZERO CLEARANCE PRE-FABRICATED NFPA96 COMPLIANT KITCHEN EXHAUST DUCTWORK AND EXTEND AS INDICATED COORDINATE POWER REQUIREMENTS WITH ELECTRICAL DIVISION. REFER TO 11. PROVIDE AND INSTALL NEW WALL MOUNTED SPLIT A/C UNIT COMPLETE WITH ASSOCIATED REFRIGERANT 12. SUPPLY AND INSTALL LINEAR SLOT DIFFUSERS WITHIN CONTINUOUS ARCHITECTURAL SLOT PROVIDE. COLLEGE STREET REFER TO ARCHITECTURAL DRAWING FOR TOTAL SLOT LENGTH. NON-ACTIVE (RETURN) LENGTH TO BE

CONSTRUCTOR SHALL CHECK ALL DIMENSIONS ON THE WORK AND REPORT ANY DISCREPANCY TO THE CONSULTANT BEFORE PROCEEDING. THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION UNTIL AUTHORIZED IN WRITING BY CONSULTANT.

REVISION

DESCRIPTION

2024-11-01 PROGRESS ISSUANCE 2024-11-14 ISSUED FOR PERMIT 2024-12-04 ISSUED FOR F&S REVIEW 2025-01-24 ISSUED FOR PEER REVIEW

2025-01-31 ISSUED FOR BID 2025-03-24 Bid Addendum #04

2025-04-30 ISSUED FOR CONSTRUCTION

2024-10-04 ISSUED FOR 50% REVIEW

THIS DRAWING IS "ISSUED FOR CONSTRUCTION" AND IS CONSIDERED COMPLEMENTARY TO THE CONTRACT DOCUMENTS. TO THE BEST OF OUR KNOWLEDGE IT IS AN ACCURATE REPRESENTATION OF DOCUMENTED REVISIONS. IN THE CASE OF ANY DISCREPANCY, OMISSION OR CONFLICT BETWEEN THIS "ISSUED FOR CONSTRUCTION" DOCUMENT AND THE CONTRACT DOCUMENTS, THE CONTRACTOR IS TO PROMPTLY

BRING IT TO THE ATTENTION OF THE

CONSULTANT.



1100 - 100 Sheppard Ave East, Toronto ON, M2N 6N5 t 416 487 8151 smithandandersen.com

ENFORM Architects Inc.

128A Sterling Road, Suite 302B
Toronto, Ontario, Canada M6R 2B7
t: 647-948-7523
www.enformarchitects.com

UNIVERSITY OF

HEALTH AND WELLNESS CENTRE RENOVATION AT KOFFLER

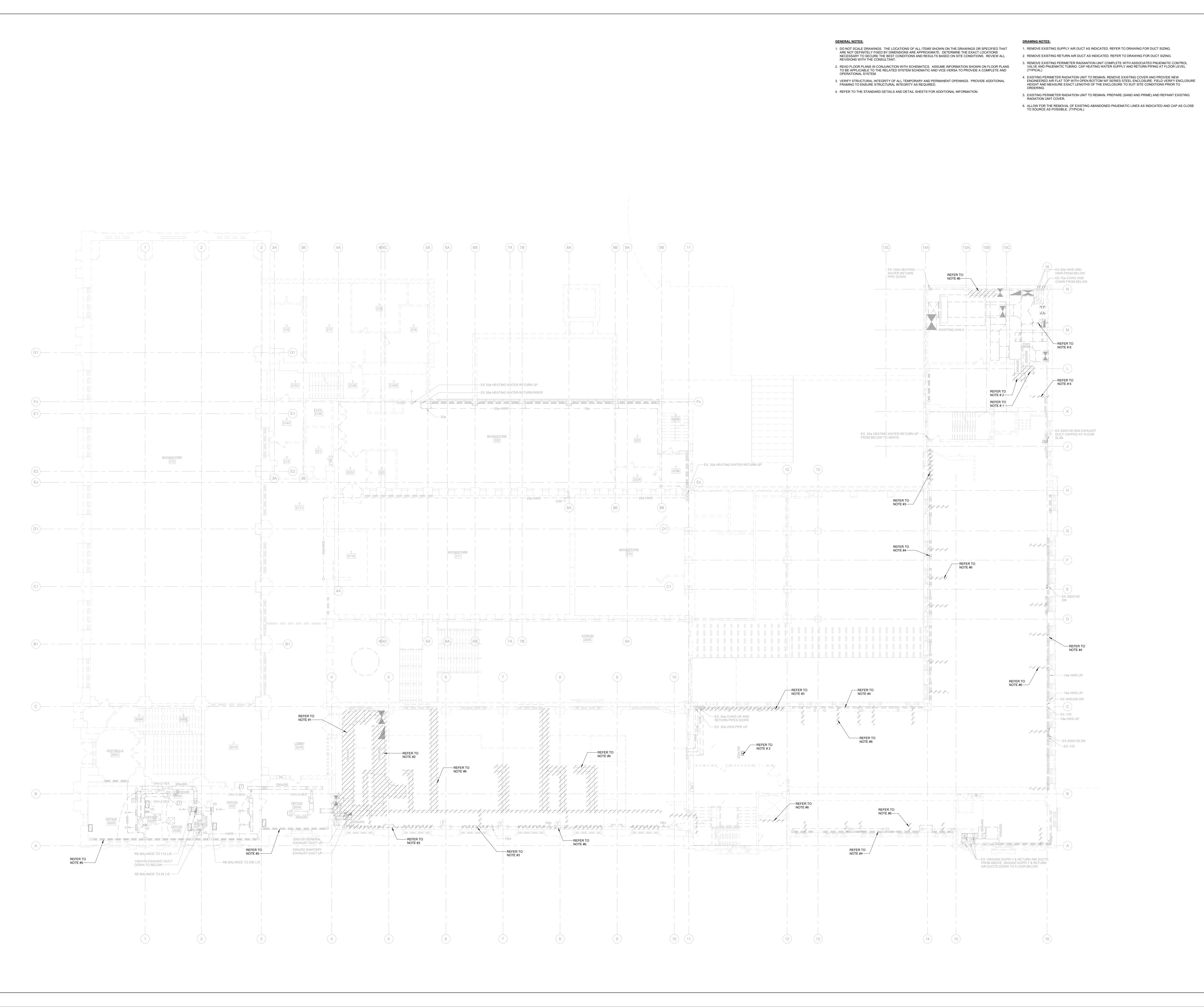
214 COLLEGE ST, TORONTO, ON M5T 3A1

SHEET CONTENTS : **GROUND FLOOR - H.V.A.C.** LAYOUT

PROJECT NUMBER: 21590.003
DRAWING SCALE:

DATE: 2024-02-08

SHEET NO:



CONSTRUCTOR SHALL CHECK ALL DIMENSIONS ON THE WORK AND REPORT ANY DISCREPANCY TO THE CONSULTANT BEFORE PROCEEDING. THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION UNTIL AUTHORIZED IN WRITING BY CONSULTANT.

KEY PLAN :

REVISION

2024-10-04 ISSUED FOR 50% REVIEW 2024-11-01 PROGRESS ISSUANCE 2024-11-14 ISSUED FOR PERMIT 2024-12-04 ISSUED FOR F&S REVIEW 2025-01-24 ISSUED FOR PEER REVIEW 2025-01-31 ISSUED FOR BID 2025-04-30 ISSUED FOR CONSTRUCTION

THIS DRAWING IS "ISSUED FOR CONSTRUCTION" AND IS CONSIDERED COMPLEMENTARY TO THE CONTRACT DOCUMENTS. TO THE BEST OF OUR KNOWLEDGE IT IS AN ACCURATE REPRESENTATION OF DOCUMENTED REVISIONS. IN THE CASE OF ANY DISCREPANCY, OMISSION OR CONFLICT BETWEEN THIS "ISSUED FOR CONSTRUCTION" DOCUMENT AND THE CONTRACT DOCUMENTS, THE CONTRACTOR IS TO PROMPTLY BRING IT TO THE ATTENTION OF THE CONSULTANT.



architects ENFORM Architects Inc. 128A Sterling Road, Suite 302B Toronto, Ontario, Canada M6R 2B7 t: 647-948-7523 www.enformarchitects.com

UNIVERSITY OF

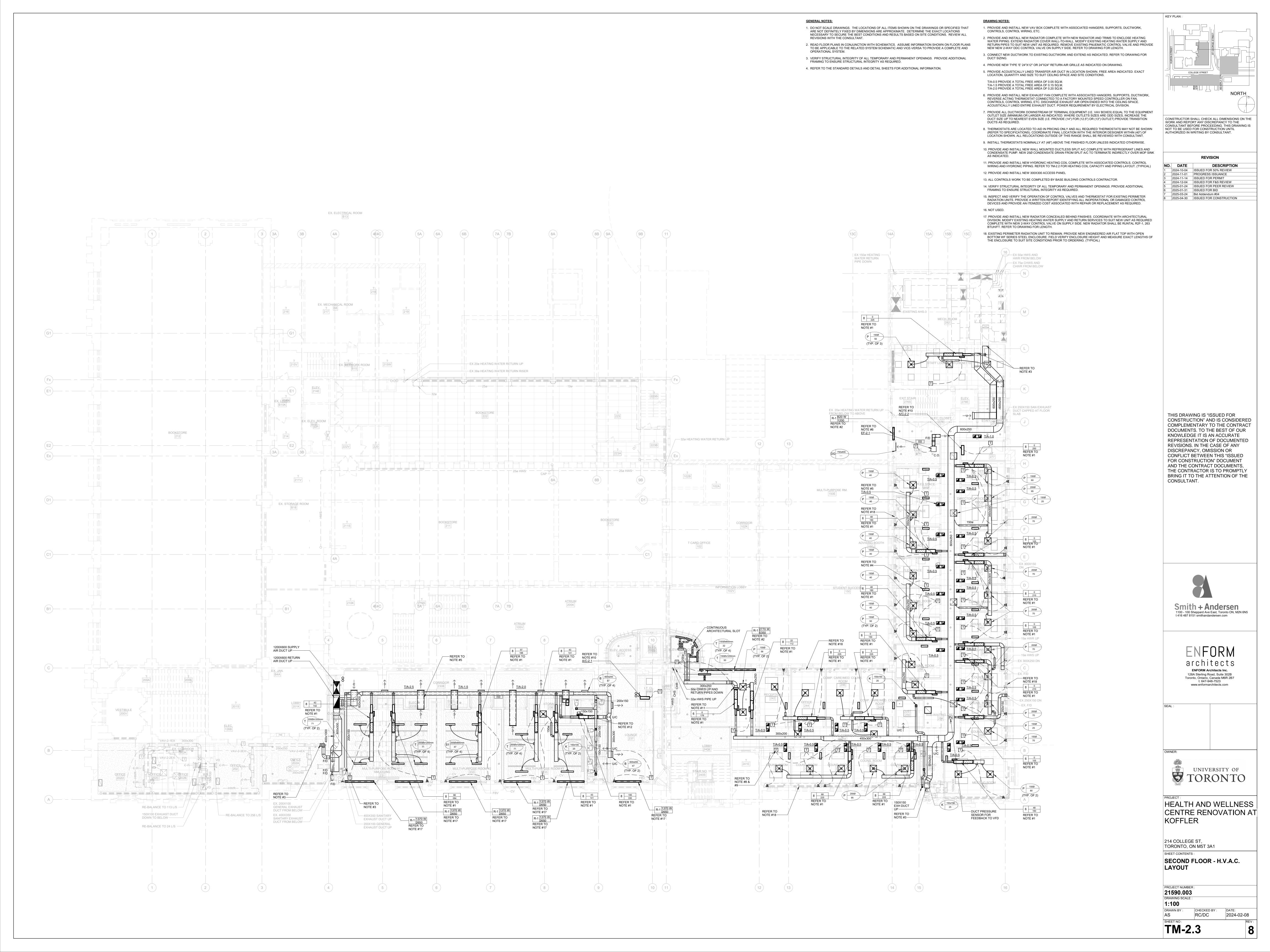
HEALTH AND WELLNESS CENTRE RENOVATION AT KOFFLER

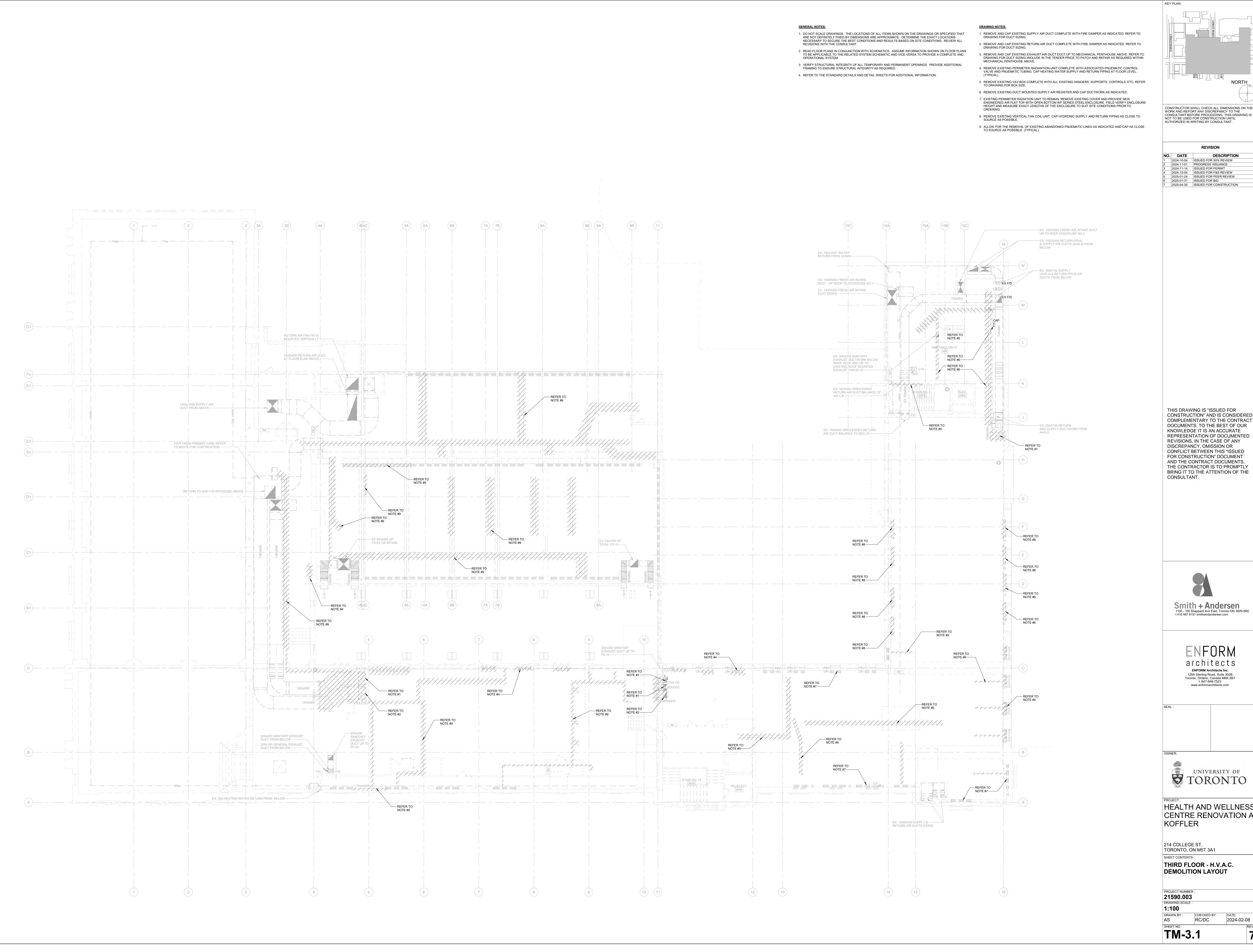
214 COLLEGE ST, TORONTO, ON M5T 3A1 SHEET CONTENTS: SECOND FLOOR - H.V.A.C.

DEMOLITION LAYOUT

PROJECT NUMBER: 21590.003
DRAWING SCALE: RC/DC 2024-02-08

TM-2.1





CONSTRUCTOR SHALL CHECK ALL DIMENSIONS ON THE WORK AND REPORT ANY DISCREPANCY TO THE CONSULTANT BEFORE PROCEEDING. THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION UNTIL

REPRESENTATION OF DOCUMENTED CONFLICT BETWEEN THIS "ISSUED THE CONTRACTOR IS TO PROMPTLY



UNIVERSITY OF

HEALTH AND WELLNESS CENTRE RENOVATION AT

2024-02-08

RADIATOR SCHEDULE **GENERAL NOTES: DRAWING NOTES:** LENGTH (IN) 1. PROVIDE AND INSTALL NEW VAV BOX COMPLETE WITH ASSOCIATED HANGERS, SUPPORTS, DUCTWORK, 1. DO NOT SCALE DRAWINGS. THE LOCATIONS OF ALL ITEMS SHOWN ON THE DRAWINGS OR SPECIFIED THAT ARE NOT DEFINITELY FIXED BY DIMENSIONS ARE APPROXIMATE. DETERMINE THE EXACT LOCATIONS CONTROLS, CONTROL WIRING, ETC. EXTEND AS INDICATED. EFER TO FLOOR PLANS R2F-1 RUNTAL NECESSARY TO SECURE THE BEST CONDITIONS AND RESULTS BASED ON SITE CONDITIONS. REVIEW ALL 2. PROVIDE AND INSTALL NEW HYDRONIC HEATING COIL COMPLETE WITH ASSOCIATED CONTROLS, CONTROL REVISIONS WITH THE CONSULTANT. WIRING AND HYDRONIC PIPING. REFER TO TM-3.2 FOR HEATING COIL CAPACITY AND PIPING LAYOUT. EXTEND AS INDICATED. PROVIDE TRIM COVER TO COMPLETELY COVER ASSOCIATED EXPOSED PIPING. 2. READ FLOOR PLANS IN CONJUNCTION WITH SCHEMATICS. ASSUME INFORMATION SHOWN ON FLOOR PLANS COLOUR: WHITE TO BE APPLICABLE TO THE RELATED SYSTEM SCHEMATIC AND VICE-VERSA TO PROVIDE A COMPLETE AND PROVIDE 75 MM CLEARANCE FROM BOTTOM OF RADIATOR. 3. CONNECT NEW DUCTWORK TO EXISTING DUCTWORK AND EXTEND AS INDICATED. REFER TO DRAWING FOR OPERATIONAL SYSTEM. RADIATOR PIPING CONFIGURATION SHALL MATCH ROUTING ON PLAN DRAWINGS. DUCT SIZING. 3. VERIFY STRUCTURAL INTEGRITY OF ALL TEMPORARY AND PERMANENT OPENINGS. PROVIDE ADDITIONAL 4. PROVIDE NEW TYPE 'E' 24"X12" OR 24"X24" RETURN AIR GRILLE AS INDICATED ON DRAWING. FRAMING TO ENSURE STRUCTURAL INTEGRITY AS REQUIRED. UPSTREAM OF P-TRAP. 5. PROVIDE ACOUSTICALLY LINED TRANSFER AIR DUCT IN LOCATION SHOWN. FREE AREA INDICATED. EXACT 4. REFER TO THE STANDARD DETAILS AND DETAIL SHEETS FOR ADDITIONAL INFORMATION. LOCATION, QUANTITY AND SIZE TO SUIT CEILING SPACE AND SITE CONDITIONS. T/A-0.5 PROVIDE A TOTAL FREE AREA OF 0.05 SQ.M. 15. ALL CONTROLS WORK TO BE COMPLETED BY BASE BUILDING CONTROLS CONTRACTOR. 6. PROVIDE ALL DUCTWORK DOWNSTREAM OF TERMINAL EQUIPMENT (I.E. VAV BOXES) EQUAL TO THE EQUIPMENT OUTLET SIZE (MINIMUM) OR LARGER AS INDICATED. WHERE OUTLETS SIZES ARE ODD SIZES, INCREASE THE DUCT SIZE UP TO NEAREST EVEN SIZE (I.E. PROVIDE (14") FOR (12.5") OR (13") OUTLET) FRAMING TO ENSURE STRUCTURAL INTEGRITY AS REQUIRED. PROVIDE TRANSITION DUCTS AS REQUIRED. 7. THERMOSTATS ARE LOCATED TO AID IN PRICING ONLY AND ALL REQUIRED THERMOSTATS MAY NOT BE SHOWN (REFER TO SPECIFICATIONS). COORDINATE FINAL LOCATION WITH THE INTERIOR DESIGNER WITHIN (40") OF LOCATION SHOWN. ALL RELOCATIONS OUTSIDE OF THIS RANGE SHALL BE REVIEWED WITH 8. INSTALL THERMOSTATS NOMINALLY AT (1200MM) ABOVE THE FINISHED FLOOR UNLESS INDICATED 19. PROVIDE AND INSTALL NEW EXHAUST FAN COMPLETE WITH ASSOCIATED HANGERS, SUPPORTS, DUCTWORK, 9. PROVIDE AND INSTALL NEW RADIATOR COMPLETE WITH RADIATOR COVERS, AND TRIMS TO ENCLOSE CONTROLS, CONTROL WIRING, ETC. POWER REQUIREMENT BY ELECTRICAL DIVISION. PIPING AND EXTEND RADIATOR WALL-TO-WALL. MODIFY EXISTING HEATING WATER SUPPLY AND RETURN SERVICES TO SUIT NEW UNIT AS REQUIRED COMPLETE WITH NEW 2-WAY CONTROL VALVE ON SUPPLY SIDE. REFER TO DRAWING FOR LENGTH. CONTROLS, CONTROL WIRING, ETC. 10. NEW SANITARY EXHAUST DUCTWORK SERVING WASHROOM TO BE ALUMINUM. THERMALLY INSULATE THE 21. LOCATION OF 120/1/60 - 15 AMP POWER FOR CONTROLS. ENTIRE EXHAUST DUCT. 22. EXISTING PERIMETER RADIATION UNIT TO REMAIN. PROVIDE NEW ENGINEERED AIR FLAT TOP WITH OPEN OF THE ENCLOSURE TO SUIT SITE CONDITIONS PRIOR TO ORDERING. 24. PROVIDE NEW SOUND BAFFLE (S.B.) WITHIN PERIMETER RADIATOR UNIT. (TYPICAL) EX 1000X500 FRESH AIR INTAKE DUCT UP TO ROOF DOGHOUSE NO.2 EXISITING 1050X450 RETURN (FR-6) & SUPPLY AIR DUCTS (AHS-3) FROM EXISTING 150ø HOT WATER RFTURN PIPES DOWN----NOTE #3 (AHS-4) & RETURN (FR-8) AIR DUCTS FROM BELOW EX 1400X900 FRESH AIR INTAKE DUCT UP ROOF TO DOGHOUSE NO.1 — EX 1400X900 FRESH AIR INTAKE RETURN AIR FAN FR-10 MOUNTED VERTICALLY+ 2450x900 RETURN AIR DUCT AT FLOOR SLAB ABOVE -1200x1000 SUPPLY AIR DUCT FROM ABOVE -R-1 270 W 520 REFER TO NOTE #9 AND SUPPLY DUCTWORK REFER TO NOTE #9 RETURN TO AHS-7 IN PETHOUSE ABOVE — EX 750x750 UP TO EX. FE-15-6 0 125 REFER TO NOTE #1 REFER TO NOTE #12 8 225
REFER TO NOTE #1 150x150 250Ø EXHAUST DUCT UP-6 0 120

REFER TO NOTE #1

P 1500 40 REFER TO NOTE #24 S.B. — 450x450 SANITARY EXHAUST DUCT UP TO EF-24 500x250 SANITARY EXHAUST EX. 1050X450 SUPPLY & —— RETURN AIR DUCTS DOWN.

11. CONNECT NEW 250X250 SANITARY EXHAUST DUCT TO EXISTING 300X300 DUCT BELOW ROOF DECK AND 12. CONNECT NEW 150X150 SANITARY EXHAUST DUCT TO EXISTING 300X300 DUCT BELOW ROOF DECK AND

13. PROVIDE AND INSTALL NEW WALL MOUNTED DUCTLESS SPLIT A/C COMPLETE WITH REFRIGERANT LINES AND CONDENSATE PUMP. NEW 25Ø CONDENSATE DRAIN FROM SPLIT A/C TO TERMINATE INDIRECTLY OVER NEW 75Ø WIDE HUB DAIN IN THE CEILING SPACE WHERE INDICATED ON DRAWING COMPLETE WITH AIR GAP. NEW 25Ø HUB DRAIN CONDENSATE LINE TO RUN INSIDE WALL CAVITY AND DOWN TO TAILSTOCK OF NEW SINK

14. COORDINATE WITH ARCHITECTURAL DIVISION TO HAVE GRILLE ABOVE PATIENT. EXTEND 250Ø DUCT UP TO PENTHOUSE ABOVE AS INDICATED. LABEL DUCTWORK WITH "CAUTION: AIRBORNE ISOLATION ROOM 16. VERIFY STRUCTURAL INTEGRITY OF ALL TEMPORARY AND PERMANENT OPENINGS. PROVIDE ADDITIONAL

17. INSPECT AND VERIFY THE OPERATION OF CONTROL VALVES AND THERMOSTAT FOR EXISTING PERIMETER RADIATION UNITS. PROVIDE A WRITTEN REPORT IDENTIFYING ALL INOPERATIONAL OR DAMAGED CONTROL DEVICES AND PROVIDE AN ITEMIZED COST ASSOCIATED WITH REPAIR OR REPLACEMENT AS REQUIRED. 18. EXISTING AIR HANDLING UNITS TO REMAIN. INSPECT AND VERIFY THE OPERATION OF EXISTING AHS-3, AHS-4, AHS-7. PROVIDE A WRITTEN REPORT IDENTIFYING ALL IN OPERATIONAL OR DAMAGED CONTROL DEVICES AND PROVIDE AN ITEMIZED COST ASSOCIATED WITH REPAIR OR REPLACEMENT AS REQUIRED.

20. PROVIDE AND INSTALL NEW BYPASS BOX COMPLETE WITH ASSOCIATED HANGERS, SUPPORTS, DUCTWORK,

BOTTOM WF SERIES STEEL ENCLOSURE. FIELD VERIFY ENCLOSURE HEIGHT AND MEASURE EXACT LENGTHS 23. PROVIDE AND INSTALL NEW EXHAUST FAN COMPLETE WITH ASSOCIATED HANGERS, SUPPORTS, DUCTWORK, REVERSE ACTING THERMOSTAT CONNECTED TO A FACTORY MOUNTED SPEED CONTROLLER ON FAN, CONTROLS, CONTROL WIRING, ETC. DISCHARGE EXHAUST AIR OPEN ENDED INTO THE CEILING SPACE. ACOUSTICALLY LINED ENTIRE EXHAUST DUCT. POWER REQUIREMENT BY ELECTRICAL DIVISION.

2024-10-04 ISSUED FOR 50% REVIEW 2024-11-01 PROGRESS ISSUANCE 2024-11-14 ISSUED FOR PERMIT 2024-12-04 ISSUED FOR F&S REVIEW 2025-01-24 ISSUED FOR PEER REVIEW 2025-01-31 ISSUED FOR BID

> THIS DRAWING IS "ISSUED FOR THE CONTRACTOR IS TO PROMPTLY BRING IT TO THE ATTENTION OF THE CONSULTANT.

CONSTRUCTOR SHALL CHECK ALL DIMENSIONS ON THE

CONSULTANT BEFORE PROCEEDING. THIS DRAWING IS

DESCRIPTION

WORK AND REPORT ANY DISCREPANCY TO THE

NOT TO BE USED FOR CONSTRUCTION UNTIL

AUTHORIZED IN WRITING BY CONSULTANT.

2025-03-24 Bid Addendum #04

2025-04-30 ISSUED FOR CONSTRUCTION



Smith + Andersen
1100 - 100 Sheppard Ave East, Toronto ON, M2N 6N5
t 416 487 8151 smithandandersen.com

ENFORM Architects Inc.

128A Sterling Road, Suite 302B
Toronto, Ontario, Canada M6R 2B7
t: 647-948-7523
www.enformarchitects.com



UNIVERSITY OF

HEALTH AND WELLNESS CENTRE RENOVATION AT KOFFLER

214 COLLEGE ST, TORONTO, ON M5T 3A1 SHEET CONTENTS: THIRD FLOOR - H.V.A.C. LAYOUT

PROJECT NUMBER: 21590.003
DRAWING SCALE:

TM-3.3

GENERAL NOTES:

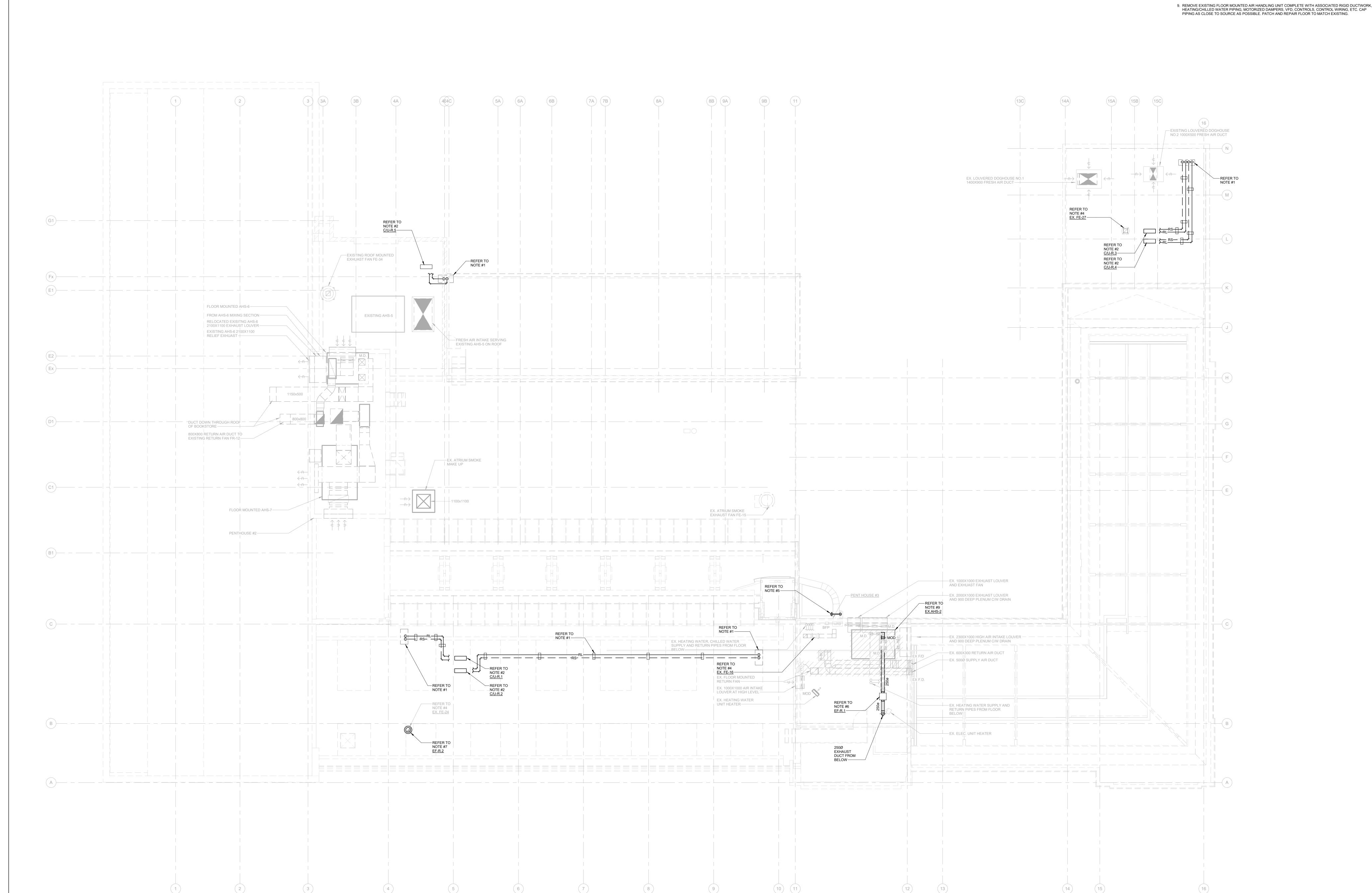
- 1. DO NOT SCALE DRAWINGS. THE LOCATIONS OF ALL ITEMS SHOWN ON THE DRAWINGS OR SPECIFIED THAT ARE NOT DEFINITELY FIXED BY DIMENSIONS ARE APPROXIMATE. DETERMINE THE EXACT LOCATIONS NECESSARY TO SECURE THE BEST CONDITIONS AND RESULTS BASED ON SITE CONDITIONS. REVIEW ALL REVISIONS WITH THE CONSULTANT.
- 2. READ FLOOR PLANS IN CONJUNCTION WITH SCHEMATICS. ASSUME INFORMATION SHOWN ON FLOOR PLANS TO BE APPLICABLE TO THE RELATED SYSTEM SCHEMATIC AND VICE-VERSA TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM.
- 3. VERIFY STRUCTURAL INTEGRITY OF ALL TEMPORARY AND PERMANENT OPENINGS. PROVIDE ADDITIONAL FRAMING TO ENSURE STRUCTURAL INTEGRITY AS REQUIRED.

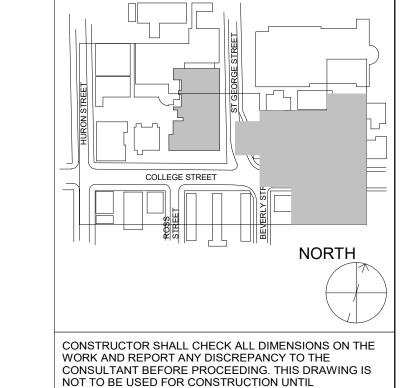
4. REFER TO THE STANDARD DETAILS AND DETAIL SHEETS FOR ADDITIONAL INFORMATION.

DRAWING NOTES:

- 1. RUN NEW LIQUID AND SUCTION REFRIGERATION LINES FROM BELOW VIA DOGHOUSE ENCLOSURE. REFER TO DETAIL/TM-0.3. 2. INSTALL NEW CONDENSING UNIT COMPLETE WITH ECOFOOT STAND ON THE ROOF AT THIS APPROXIMATE LOCATION. INSTALL CONDENSING UNIT ABOVE SNOW LINE AS PER MANUFACTURER'S REQUIREMENT. REFER
- 3. EXISTING AIR HANDLING UNITS TO REMAIN. INSPECT AND VERIFY THE OPERATION OF EXISTING AHS-3, AHS-4, AHS-7. PROVIDE A WRITTEN REPORT IDENTIFYING ALL IN OPERATIONAL OR DAMAGED CONTROL DEVICES AND PROVIDE AN ITEMIZED COST ASSOCIATED WITH REPAIR OR REPLACEMENT AS REQUIRED. 4. REMOVE EXISTING ROOF MOUNTED SANITARY EXHAUST FAN "EX.FE-24" AND CAP DUCTWORK AT ROOF FOR FUTURE CONNECTION. POWER DISCONNECTION BY ELECTRICAL DIVISION.
- 5. NEW 75Ø WALL SCUPPER DRAIN COMPLETE WITH 75Ø STORM PIPE DOWN ALONG BUILDING EXTERIOR WALL AS INDICATED. SECURE STORM PIPE TO EXTERIOR BUILDING WALL. STORM PIPE TO TERMINATE WITH 45 DEGREE DOWNSPOUT AT LOWER ROOF. REFER TO TM-2.2 FOR CONTINUATION. SCUPPER DRAIN AND STORM PIPE SPECIFICATION BY ARCHITECTURAL DIVISION. PROVIDE ELECTRICAL HEAT TRACING INSIDE STORM PIPE NVENT RAYCHEM SELF REGULATING HEATING CABLES OR EQUIVALENT. COORDINATE POWER REQUIREMENTS WITH ELECTRICAL DIVISION.
- 6. PROVIDE AND INSTALL NEW CEILING MOUNTED INLINE EXHAUST FAN COMPLETE WITH HEPA FILTRATION SECTION, ASSOCIATED HANGERS, SUPPORTS, CONTROLS, CONTROL WIRING, DUCTWORK, ETC. EXHAUST DUCTWORK TO BE THERMALLY INSULATED AND EXTEND TO EXISTING EXHAUST AIR PLENUM BOX AT EXTERIOR WALL AS INDICATED. INTERLOCK MOTORIZED DAMPER WITH EXHAUST FAN. 7. PROVIDE AND INSTALL NEW ROOF MOUNTED UP BLAST SANITARY EXHAUST FAN "EF-R.2". REMOVE CAP AND
- CONNECT NEW 450X450 SANITARY EXHAUST DUCT TO EXISTING 450X450 AND EXTEND AS INDICATED. 8. PROVIDE REFRIGERANT PIPING SUPPORT AS REQUIRED TO PROPERLY SUPPORT ENTIRE LENGTH OF REFRIGERANT PIPING. REFER TO DETAIL #/TM-0.4.







DESCRIPTION

AUTHORIZED IN WRITING BY CONSULTANT.

2024-10-04 ISSUED FOR 50% REVIEW 2024-11-14 ISSUED FOR PERMIT 2024-12-04 ISSUED FOR F&S REVIEW 2025-01-24 ISSUED FOR PEER REVIEW 2025-01-31 ISSUED FOR BID 2025-03-07 Bid Addendum #01 2025-04-30 ISSUED FOR CONSTRUCTION

THIS DRAWING IS "ISSUED FOR CONSTRUCTION" AND IS CONSIDERED COMPLEMENTARY TO THE CONTRACT DOCUMENTS. TO THE BEST OF OUR KNOWLEDGE IT IS AN ACCURATE REPRESENTATION OF DOCUMENTED REVISIONS. IN THE CASE OF ANY DISCREPANCY, OMISSION OR CONFLICT BETWEEN THIS "ISSUED FOR CONSTRUCTION" DOCUMENT AND THE CONTRACT DOCUMENTS, THE CONTRACTOR IS TO PROMPTLY BRING IT TO THE ATTENTION OF THE CONSULTANT.



architects

ENFORM Architects Inc. 128A Sterling Road, Suite 302B Toronto, Ontario, Canada M6R 2B7 t: 647-948-7523

www.enformarchitects.com

UNIVERSITY OF

HEALTH AND WELLNESS CENTRE RENOVATION AT KOFFLER

214 COLLEGE ST, TORONTO, ON M5T 3A1 SHEET CONTENTS: **ROOF - MECHANICAL LAYOUT**

PROJECT NUMBER : 21590.003 DRAWING SCALE : 1:100 RC/DC 2024-02-08

TM-R.3

GENERAL NOTES: DRAWING NOTES: 1. DO NOT SCALE DRAWINGS. THE LOCATIONS OF ALL ITEMS SHOWN ON THE DRAWINGS OR SPECIFIED THAT 1. EXISTING PENDENT TYPE SPRINKLER HEADS TO REMAIN. (TYPICAL) ARE NOT DEFINITELY FIXED BY DIMENSIONS ARE APPROXIMATE. DETERMINE THE EXACT LOCATIONS NECESSARY TO SECURE THE BEST CONDITIONS AND RESULTS BASED ON SITE CONDITIONS. REVIEW ALL REVISIONS WITH THE CONSULTANT. 2. REMOVE EXISTING UPRIGHT TYPE SPRINKLER HEADS. (TYPICAL) 3. REMOVE EXISTING PENDENT TYPE SPRINKLER HEAD. 2. READ FLOOR PLANS IN CONJUNCTION WITH SCHEMATICS. ASSUME INFORMATION SHOWN ON FLOOR PLANS TO BE APPLICABLE TO THE RELATED SYSTEM SCHEMATIC AND VICE-VERSA TO PROVIDE A COMPLETE AND 4. REMOVE EXISTING FIRE HOSE CABINET AND CAP EXISTING 75Ø FIRE LINE IN THE CEILING SPACE AS OPERATIONAL SYSTEM. INDICATED. ALLOWS FOR DRAIN DOWN OF FIRE STANDPIPE RISER. REMOVE ALL UNUSED PIPING FROM SITE. 5. INCLUDE IN THE TENDER FOR THE REMOVAL OF AN ADDITIONAL FIVE (5) SPRINKLER HEADS COMPLETE 3. VERIFY STRUCTURAL INTEGRITY OF ALL TEMPORARY AND PERMANENT OPENINGS. PROVIDE ADDITIONAL FRAMING TO ENSURE STRUCTURAL INTEGRITY AS REQUIRED. WITH BRANCH PIPING NOT SHOWN IN THE DRAWINGS TO SUIT SITE CONDITIONS. 4. REFER TO THE STANDARD DETAILS AND DETAIL SHEETS FOR ADDITIONAL INFORMATION. /STUDEN<u>T S</u>UCCESS/

COLLEGE STREET CONSTRUCTOR SHALL CHECK ALL DIMENSIONS ON THE WORK AND REPORT ANY DISCREPANCY TO THE CONSULTANT BEFORE PROCEEDING. THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION UNTIL AUTHORIZED IN WRITING BY CONSULTANT.

2024-10-04 ISSUED FOR 50% REVIEW

2 2024-11-01 PROGRESS ISSUANCE 3 2024-11-14 ISSUED FOR PERMIT 2025-04-30 ISSUED FOR CONSTRUCTION

THIS DRAWING IS "ISSUED FOR CONSTRUCTION" AND IS CONSIDERED COMPLEMENTARY TO THE CONTRACT DOCUMENTS. TO THE BEST OF OUR KNOWLEDGE IT IS AN ACCURATE REPRESENTATION OF DOCUMENTED REVISIONS. IN THE CASE OF ANY DISCREPANCY, OMISSION OR CONFLICT BETWEEN THIS "ISSUED FOR CONSTRUCTION" DOCUMENT AND THE CONTRACT DOCUMENTS, THE CONTRACTOR IS TO PROMPTLY BRING IT TO THE ATTENTION OF THE CONSULTANT.



Smith + Andersen
1100 - 100 Sheppard Ave East, Toronto ON, M2N 6N5
t 416 487 8151 smithandandersen.com

architects ENFORM Architects Inc. 128A Sterling Road, Suite 302B Toronto, Ontario, Canada M6R 2B7 t: 647-948-7523 www.enformarchitects.com

UNIVERSITY OF

HEALTH AND WELLNESS CENTRE RENOVATION AT KOFFLER

214 COLLEGE ST, TORONTO, ON M5T 3A1

SHEET CONTENTS: **GROUND FLOOR - FIRE** PROTECTION DEMOLITION LAYOUT

PROJECT NUMBER : 21590.003 DRAWING SCALE :

GENERAL NOTES: DRAWING NOTES: 1. DO NOT SCALE DRAWINGS. THE LOCATIONS OF ALL ITEMS SHOWN ON THE DRAWINGS OR SPECIFIED THAT ARE NOT DEFINITELY FIXED BY DIMENSIONS ARE APPROXIMATE. DETERMINE THE EXACT LOCATIONS NECESSARY TO SECURE THE BEST CONDITIONS AND RESULTS BASED ON SITE CONDITIONS. REVIEW ALL MAIN WITH ADEQUATE SIZE. (TYPICAL) REVISIONS WITH THE CONSULTANT. 2. NEW 23.0 METER FIRE HOSE CABINET. 2. READ FLOOR PLANS IN CONJUNCTION WITH SCHEMATICS. ASSUME INFORMATION SHOWN ON FLOOR PLANS TO BE APPLICABLE TO THE RELATED SYSTEM SCHEMATIC AND VICE-VERSA TO PROVIDE A COMPLETE AND 3. NEW 75Ø FIRE LINE DOWN TO NEW FIRE HOSE CABINET. OPERATIONAL SYSTEM. 3. VERIFY STRUCTURAL INTEGRITY OF ALL TEMPORARY AND PERMANENT OPENINGS. PROVIDE ADDITIONAL FRAMING TO ENSURE STRUCTURAL INTEGRITY AS REQUIRED. 4. REFER TO THE STANDARD DETAILS AND DETAIL SHEETS FOR ADDITIONAL INFORMATION. WITH ELECTRICAL DIVISION. REFER TO HOOD DETAIL DRAWINGS. REQUIREMENTS OF ENFORCED NFPA 13 STANDARD. PROPOSED LAYOUT FOR REVIEW PRIOR TO INSTALLATION. ASSOCIATED COSTS IN TENDER PRICE. 9. COORDINATE FIRE PROTECTION SERVICES WITH ALL OTHER TRADES PRIOR TO INSTALLATION. RECTIFY, AT IN ADVANCE OF THE REQUIRED INTERFERENCE PROCESS. HEADS COMPLETE WITH BRANCH PIPING TO SUIT SITE CONDITIONS TO MEET REQUIREMENTS OF NFPA-13. BAHEN CENTRE CENTRE REFER TO NOTE #2 NEW FHC — REFER TO NOTE #3-----

NEW SEMI-RECESSED TYPE SPRINKLER HEAD TO MATCH BASE BUILDING STANDARD COMPLETE WITH ALL ASSOCIATED BRANCH PIPING. NEW BRANCH PIPING TO CONNECT TO EXISTING SPRINKLER MAIN OR BRANCH

4. SUPPLY AND INSTALL NEW FIRE EXTINGUISHER CABINET AS PER SPECIFICATIONS. FIRE EXTINGUISHER INSTALLATION TO COMPLETE WITH NFPA 10 STANDARDS. (TYPICAL) 5. PROVIDE AND INSTALL NEW NFPA96 COMPLIANT TYPE 1 RECIRCULATING HOOD COMPLETE WITH INTEGRAL FIRE SUPRESSION SYSTEM. COORDINATE POWER REQUIREMENTS AND BASE BUILDING FIRE ALARM TIE IN

6. QUANTITY AND LOCATION OF SPRINKLER HEADS, WHERE SHOWN ARE TO AID IN PRICING ONLY. PROVIDE EXACT NUMBER OF HEADS TO SUIT DENSITY REQUIREMENTS AS SPECIFIED OR SHOWN. CONFORM TO ARCHITECTURAL REFLECTED CEILING PLAN LOCATIONS WHERE INDICATED AND MEET MINIMUM

7. PROVIDE SPRINKLER DRAWINGS AND HYDRAULIC CALCULATIONS SEALED BY A PROFESSIONAL ENGINEER. INDICATED ZONING AND DENSITY. PROVIDE A SPRINKLER PLANS. PROVIDE SHOP DRAWINGS IDENTIFYING

8. PROVIDE A SEALED LETTER BY THE PROFESSIONAL ENGINEER OF RECORD CONFIRMING THE INSTALLATION COMPLIES WITH THE SHOP DRAWINGS AND THE ENFORCED NFPA 13 & 14 STANDARD. INCLUDE ALL

OWN EXPENSE, ALL CONFLICTS RESULTING FROM UNCOORDINATED FIRE PROTECTION SYSTEMS INSTALLED 10. INCLUDE IN THE TENDER PRICE FOR THE SUPPLY AND INSTALLATION OF AN ADDITIONAL FIVE (5) SPRINKLER

COLLEGE STREET CONSTRUCTOR SHALL CHECK ALL DIMENSIONS ON THE WORK AND REPORT ANY DISCREPANCY TO THE CONSULTANT BEFORE PROCEEDING. THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION UNTIL AUTHORIZED IN WRITING BY CONSULTANT.

REVISION

2024-10-04 ISSUED FOR 50% REVIEW 2024-11-01 PROGRESS ISSUANCE 2024-11-14 ISSUED FOR PERMIT 2024-12-04 ISSUED FOR F&S REVIEW 2025-01-24 ISSUED FOR PEER REVIEW

2025-04-30 ISSUED FOR CONSTRUCTION

2025-01-31 ISSUED FOR BID

DESCRIPTION

CONSTRUCTION" AND IS CONSIDERED COMPLEMENTARY TO THE CONTRACT DOCUMENTS. TO THE BEST OF OUR KNOWLEDGE IT IS AN ACCURATE REPRESENTATION OF DOCUMENTED REVISIONS. IN THE CASE OF ANY DISCREPANCY, OMISSION OR CONFLICT BETWEEN THIS "ISSUED FOR CONSTRUCTION" DOCUMENT AND THE CONTRACT DOCUMENTS, THE CONTRACTOR IS TO PROMPTLY BRING IT TO THE ATTENTION OF THE CONSULTANT.

THIS DRAWING IS "ISSUED FOR



Smith + Andersen
1100 - 100 Sheppard Ave East, Toronto ON, M2N 6N5
t 416 487 8151 smithandandersen.com

architects ENFORM Architects Inc.
128A Sterling Road, Suite 302B
Toronto, Ontario, Canada M6R 2B7
t: 647-948-7523
www.enformarchitects.com

UNIVERSITY OF

HEALTH AND WELLNESS CENTRE RENOVATION AT KOFFLER

214 COLLEGE ST, TORONTO, ON M5T 3A1

SHEET CONTENTS : **GROUND FLOOR - FIRE** PROTECTION LAYOUT

PROJECT NUMBER: 21590.003
DRAWING SCALE:

CHECKED BY:

TM-1.4

GENERAL NOTES: DRAWING NOTES: 1. DO NOT SCALE DRAWINGS. THE LOCATIONS OF ALL ITEMS SHOWN ON THE DRAWINGS OR SPECIFIED THAT 1. EXISTING UPRIGHT TYPE SPRINKLER HEADS TO REMAIN. (TYPICAL) ARE NOT DEFINITELY FIXED BY DIMENSIONS ARE APPROXIMATE. DETERMINE THE EXACT LOCATIONS NECESSARY TO SECURE THE BEST CONDITIONS AND RESULTS BASED ON SITE CONDITIONS. REVIEW ALL REVISIONS WITH THE CONSULTANT. 2. REMOVE EXISTING UPRIGHT TYPE SPRINKLER HEADS. (TYPICAL) 2. READ FLOOR PLANS IN CONJUNCTION WITH SCHEMATICS. ASSUME INFORMATION SHOWN ON FLOOR PLANS TO BE APPLICABLE TO THE RELATED SYSTEM SCHEMATIC AND VICE-VERSA TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM. WITH BRANCH PIPING NOT SHOWN IN THE DRAWINGS TO SUIT SITE CONDITIONS. 3. VERIFY STRUCTURAL INTEGRITY OF ALL TEMPORARY AND PERMANENT OPENINGS. PROVIDE ADDITIONAL FRAMING TO ENSURE STRUCTURAL INTEGRITY AS REQUIRED. 4. REFER TO THE STANDARD DETAILS AND DETAIL SHEETS FOR ADDITIONAL INFORMATION. NOTE #1----/ REFER TO — NOTE #2 RISER FROM BELOW SCOPE OF WORK

3. REMOVE EXISTING FIRE HOSE CABINET AND CAP EXISTING 75Ø FIRE LINE IN THE CEILING SPACE AS

INDICATED. ALLOWS FOR DRAIN DOWN OF FIRE STANDPIPE RISER. REMOVE ALL UNUSED PIPING FROM SITE. 4. INCLUDE IN THE TENDER FOR THE REMOVAL OF AN ADDITIONAL FIVE (5) SPRINKLER HEADS COMPLETE

CONSTRUCTOR SHALL CHECK ALL DIMENSIONS ON THE WORK AND REPORT ANY DISCREPANCY TO THE CONSULTANT BEFORE PROCEEDING. THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION UNTIL AUTHORIZED IN WRITING BY CONSULTANT.

> 2024-10-04 ISSUED FOR 50% REVIEW 2024-11-14 ISSUED FOR PERMIT 2024-12-04 ISSUED FOR F&S REVIEW 4 2025-01-24 ISSUED FOR PEER REVIEW
> 5 2025-01-31 ISSUED FOR BID
> 6 2025-04-30 ISSUED FOR CONSTRUCTION

THIS DRAWING IS "ISSUED FOR CONSTRUCTION" AND IS CONSIDERED COMPLEMENTARY TO THE CONTRACT DOCUMENTS. TO THE BEST OF OUR KNOWLEDGE IT IS AN ACCURATE REPRESENTATION OF DOCUMENTED REVISIONS. IN THE CASE OF ANY DISCREPANCY, OMISSION OR CONFLICT BETWEEN THIS "ISSUED FOR CONSTRUCTION" DOCUMENT AND THE CONTRACT DOCUMENTS, THE CONTRACTOR IS TO PROMPTLY BRING IT TO THE ATTENTION OF THE CONSULTANT.



architects ENFORM Architects Inc.
128A Sterling Road, Suite 302B
Toronto, Ontario, Canada M6R 2B7
t: 647-948-7523
www.enformarchitects.com

UNIVERSITY OF

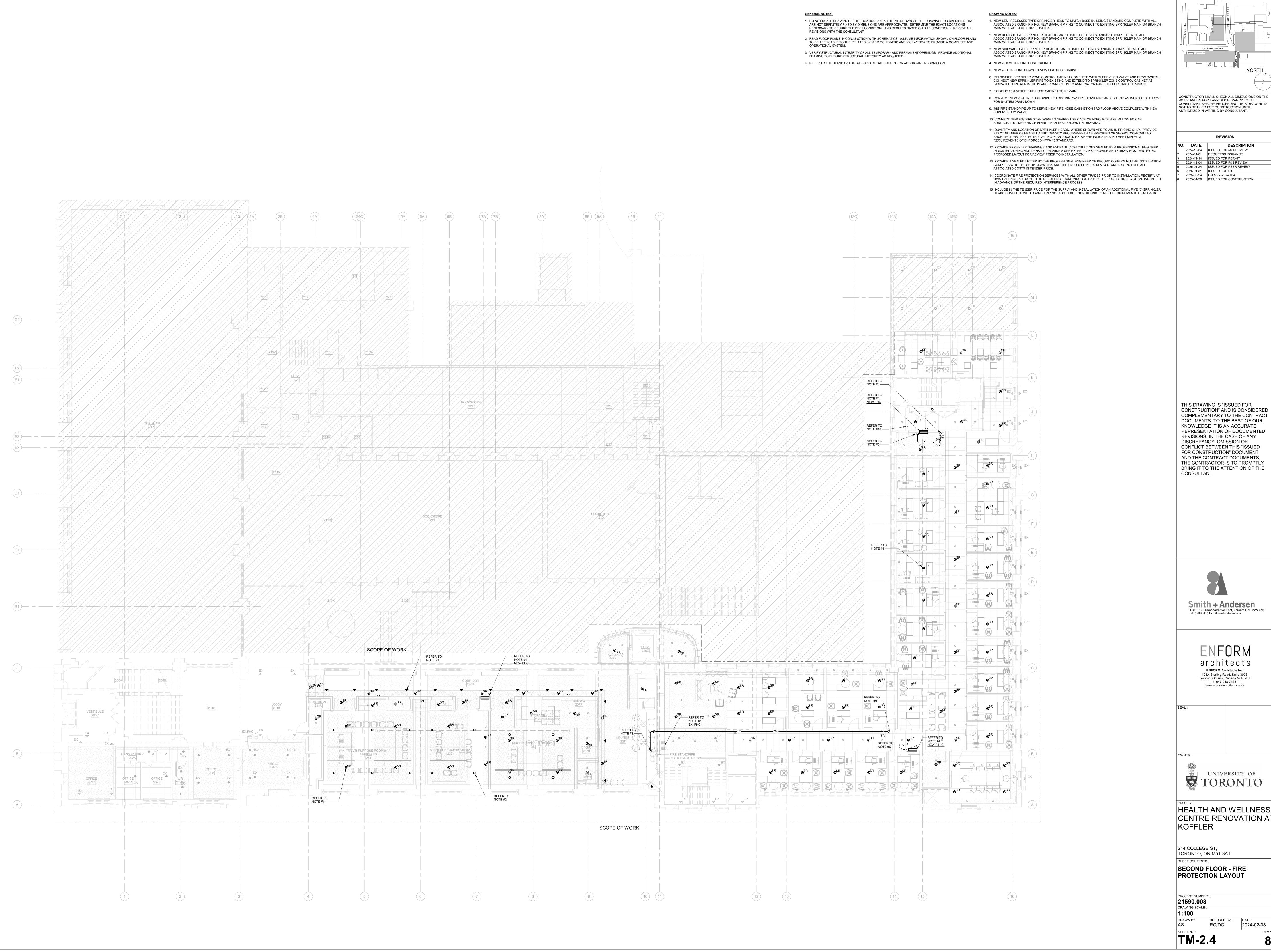
HEALTH AND WELLNESS CENTRE RENOVATION AT KOFFLER

214 COLLEGE ST, TORONTO, ON M5T 3A1 SHEET CONTENTS: **SECOND FLOOR - FIRE** PROTECTION DEMOLITION

PROJECT NUMBER: 21590.003
DRAWING SCALE:

LAYOUT

TM-2.4.1



2024-10-04 ISSUED FOR 50% REVIEW 2024-11-01 PROGRESS ISSUANCE 2024-11-14 ISSUED FOR PERMIT 2024-12-04 ISSUED FOR F&S REVIEW 2025-01-24 ISSUED FOR PEER REVIEW 2025-01-31 ISSUED FOR BID 2025-03-24 Bid Addendum #04

REVISION

DESCRIPTION

THIS DRAWING IS "ISSUED FOR REPRESENTATION OF DOCUMENTED BRING IT TO THE ATTENTION OF THE CONSULTANT.



ENFORM Architects Inc.

128A Sterling Road, Suite 302B
Toronto, Ontario, Canada M6R 2B7
t: 647-948-7523
www.enformarchitects.com

UNIVERSITY OF

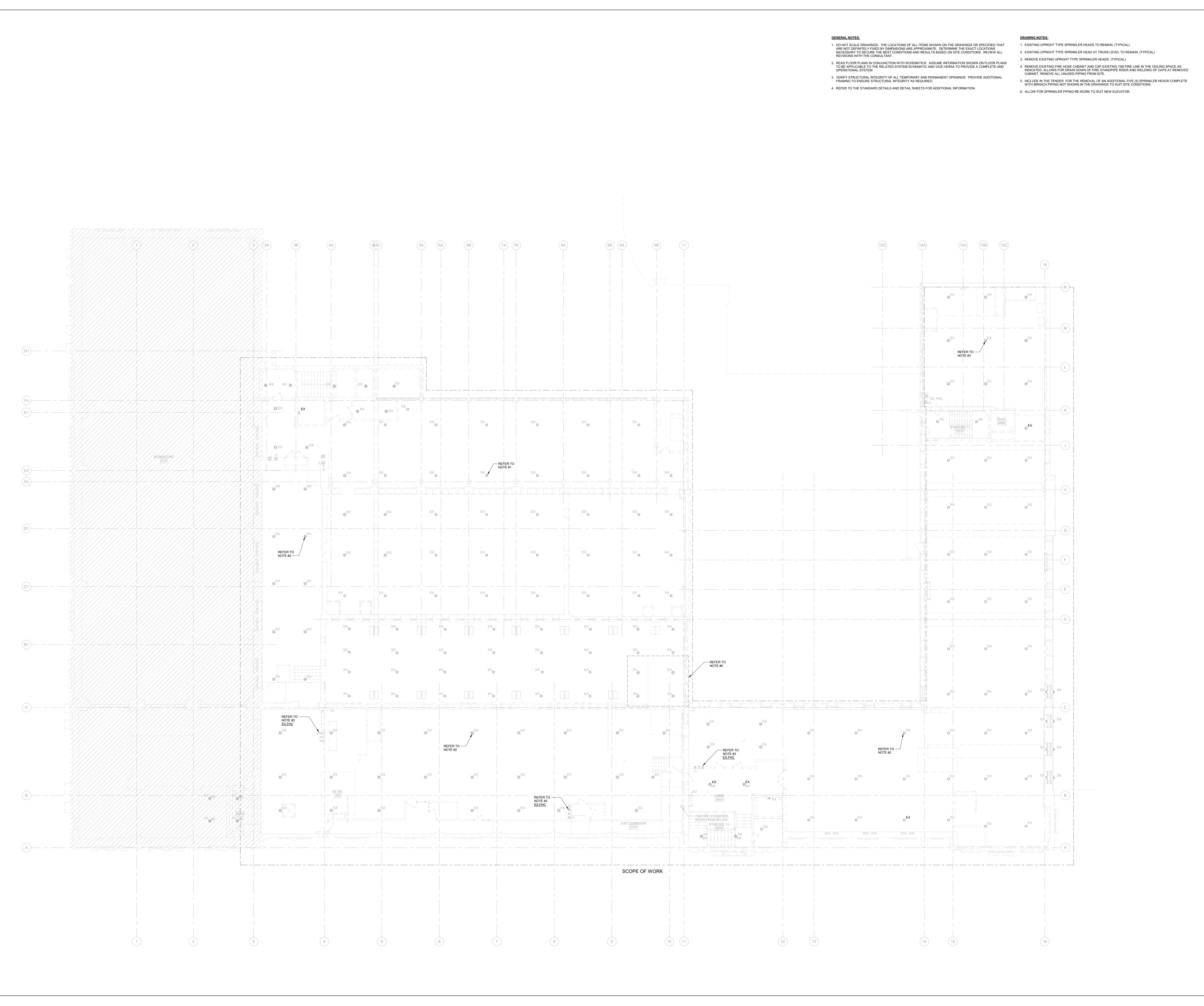
HEALTH AND WELLNESS CENTRE RENOVATION AT KOFFLER

214 COLLEGE ST, TORONTO, ON M5T 3A1 SHEET CONTENTS: SECOND FLOOR - FIRE

PROTECTION LAYOUT

PROJECT NUMBER: 21590.003
DRAWING SCALE:

TM-2.4



CONSTRUCTOR SHALL CHECK ALL DIMENSIONS ON THE WORK AND REPORT ANY DISCREPANCY TO THE

> NOT TO BE USED FOR CONSTRUCTION UNTIL AUTHORIZED IN WRITING BY CONSULTANT.

CONSULTANT BEFORE PROCEEDING. THIS DRAWING IS

2024-10-04 ISSUED FOR 50% REVIEW 2024-11-14 ISSUED FOR PERMIT 2024-12-04 ISSUED FOR F&S REVIEW 2025-01-24 ISSUED FOR PEER REVIEW 2025-01-31 ISSUED FOR BID

2025-03-24 Bid Addendum #04 2025-04-30 ISSUED FOR CONSTRUCTION

THIS DRAWING IS "ISSUED FOR CONSTRUCTION" AND IS CONSIDERED COMPLEMENTARY TO THE CONTRACT DOCUMENTS. TO THE BEST OF OUR KNOWLEDGE IT IS AN ACCURATE REPRESENTATION OF DOCUMENTED REVISIONS. IN THE CASE OF ANY DISCREPANCY, OMISSION OR CONFLICT BETWEEN THIS "ISSUED FOR CONSTRUCTION" DOCUMENT AND THE CONTRACT DOCUMENTS, THE CONTRACTOR IS TO PROMPTLY BRING IT TO THE ATTENTION OF THE CONSULTANT.



architects Inc.

128A Sterling Road, Suite 302B
Toronto, Ontario, Canada M6R 2B7
t: 647-948-7523
www.enformarchitects.com

UNIVERSITY OF

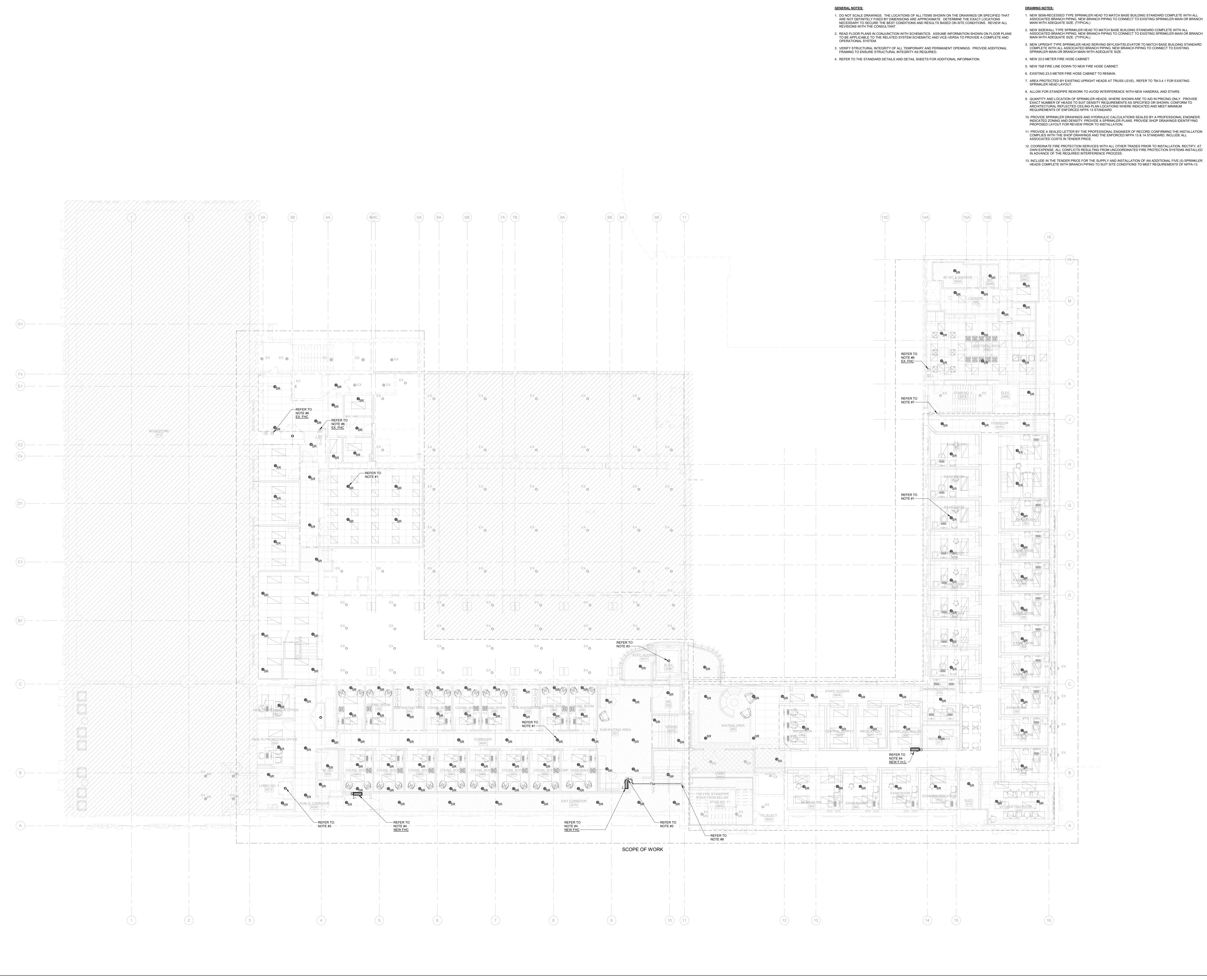
HEALTH AND WELLNESS CENTRE RENOVATION AT KOFFLER

214 COLLEGE ST, TORONTO, ON M5T 3A1

SHEET CONTENTS: THIRD FLOOR - FIRE PROTECTION DEMOLITION LAYOUT

PROJECT NUMBER: 21590.003
DRAWING SCALE:

TM-3.4.1



1. NEW SEMI-RECESSED TYPE SPRINKLER HEAD TO MATCH BASE BUILDING STANDARD COMPLETE WITH ALL ASSOCIATED BRANCH PIPING. NEW BRANCH PIPING TO CONNECT TO EXISTING SPRINKLER MAIN OR BRANCH

> 3. NEW UPRIGHT TYPE SPRINKLER HEAD SERVING SKYLIGHT/ELEVATOR TO MATCH BASE BUILDING STANDARD COMPLETE WITH ALL ASSOCIATED BRANCH PIPING. NEW BRANCH PIPING TO CONNECT TO EXISTING

7. AREA PROTECTED BY EXISTING UPRIGHT HEADS AT TRUSS LEVEL. REFER TO TM-3.4.1 FOR EXISTING

9. QUANTITY AND LOCATION OF SPRINKLER HEADS, WHERE SHOWN ARE TO AID IN PRICING ONLY. PROVIDE EXACT NUMBER OF HEADS TO SUIT DENSITY REQUIREMENTS AS SPECIFIED OR SHOWN. CONFORM TO ARCHITECTURAL REFLECTED CEILING PLAN LOCATIONS WHERE INDICATED AND MEET MINIMUM

10. PROVIDE SPRINKLER DRAWINGS AND HYDRAULIC CALCULATIONS SEALED BY A PROFESSIONAL ENGINEER. INDICATED ZONING AND DENSITY. PROVIDE A SPRINKLER PLANS. PROVIDE SHOP DRAWINGS IDENTIFYING 11. PROVIDE A SEALED LETTER BY THE PROFESSIONAL ENGINEER OF RECORD CONFIRMING THE INSTALLATION

12. COORDINATE FIRE PROTECTION SERVICES WITH ALL OTHER TRADES PRIOR TO INSTALLATION. RECTIFY, AT OWN EXPENSE, ALL CONFLICTS RESULTING FROM UNCOORDINATED FIRE PROTECTION SYSTEMS INSTALLED 13. INCLUDE IN THE TENDER PRICE FOR THE SUPPLY AND INSTALLATION OF AN ADDITIONAL FIVE (5) SPRINKLER

CONSTRUCTOR SHALL CHECK ALL DIMENSIONS ON THE WORK AND REPORT ANY DISCREPANCY TO THE CONSULTANT BEFORE PROCEEDING. THIS DRAWING IS

NOT TO BE USED FOR CONSTRUCTION UNTIL

AUTHORIZED IN WRITING BY CONSULTANT.

REVISION

DESCRIPTION

2024-10-04 ISSUED FOR 50% REVIEW 2024-11-01 PROGRESS ISSUANCE 2024-11-14 ISSUED FOR PERMIT 2024-12-04 ISSUED FOR F&S REVIEW

2025-01-24 ISSUED FOR PEER REVIEW 2025-01-31 ISSUED FOR BID 2025-03-24 Bid Addendum #04 2025-04-30 ISSUED FOR CONSTRUCTION

THIS DRAWING IS "ISSUED FOR COMPLEMENTARY TO THE CONTRACT DOCUMENTS. TO THE BEST OF OUR KNOWLEDGE IT IS AN ACCURATE REPRESENTATION OF DOCUMENTED REVISIONS. IN THE CASE OF ANY DISCREPANCY, OMISSION OR AND THE CONTRACT DOCUMENTS, THE CONTRACTOR IS TO PROMPTLY BRING IT TO THE ATTENTION OF THE CONSULTANT.



Smith + Andersen
1100 - 100 Sheppard Ave East, Toronto ON, M2N 6N5
t 416 487 8151 smithandandersen.com

ENFORM Architects Inc.

128A Sterling Road, Suite 302B
Toronto, Ontario, Canada M6R 2B7
t: 647-948-7523
www.enformarchitects.com



UNIVERSITY OF

HEALTH AND WELLNESS CENTRE RENOVATION AT KOFFLER

214 COLLEGE ST, TORONTO, ON M5T 3A1 SHEET CONTENTS: THIRD FLOOR - FIRE

PROTECTION LAYOUT

PROJECT NUMBER: 21590.003
DRAWING SCALE:

CHECKED BY: