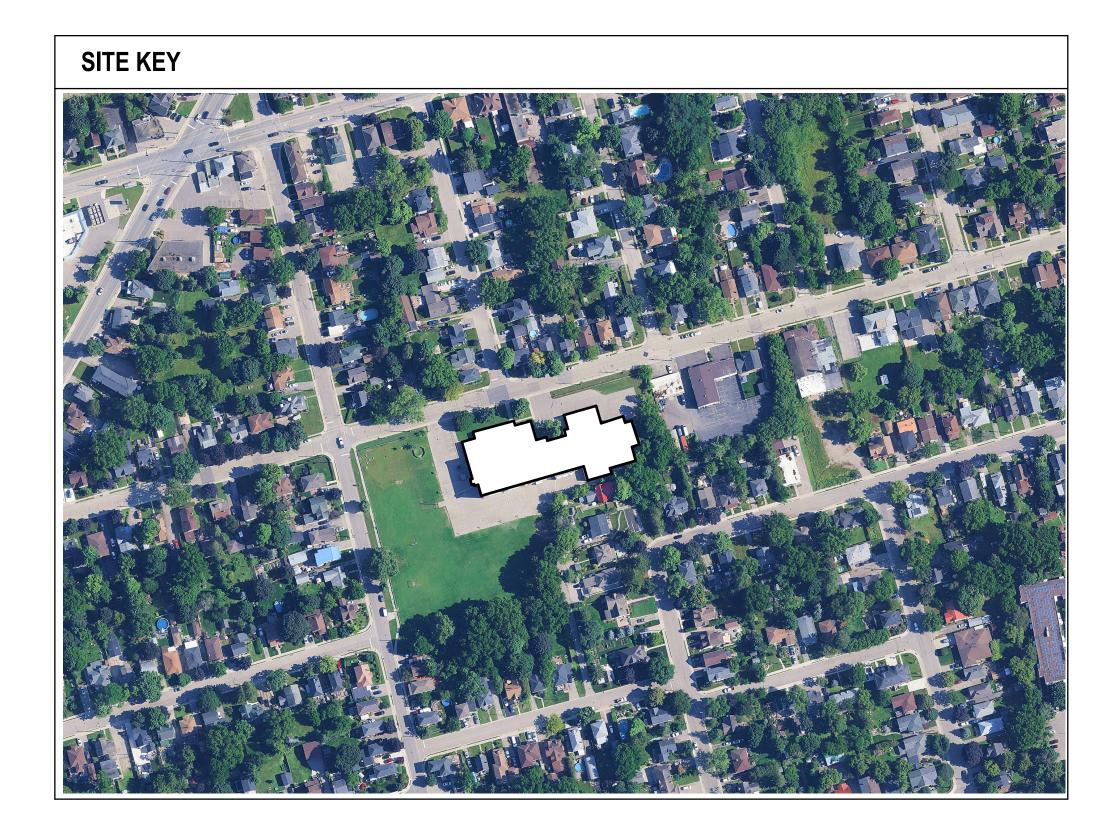
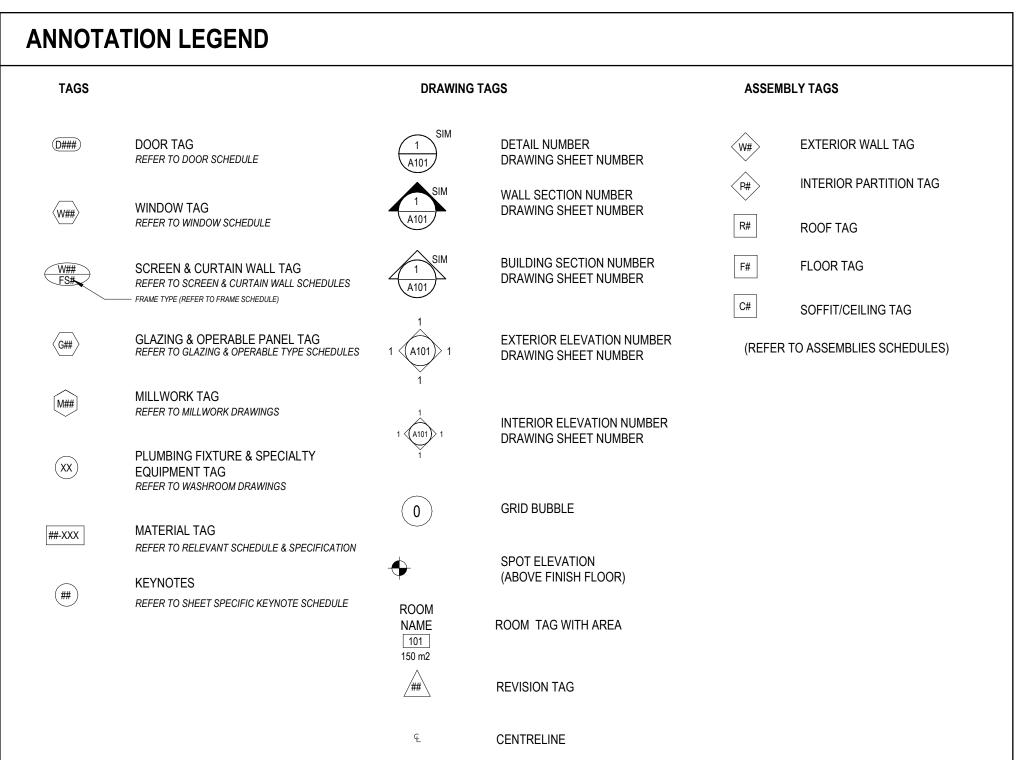
# WRDSB ST ANDREWS PUBLIC SCHOOL / ISSUED FOR TENDER 24-05-02

65 VICTORIA AVENUE, CAMBRIDGE, ON N1S 1X2





		1 (A101) 1	DRAWING SHEET NUMBER
(x	PLUMBING FIXTURE & SPECIALTY EQUIPMENT TAG	ĭ	
	REFER TO WASHROOM DRAWINGS		
		(0)	GRID BUBBLE
##-X	MATERIAL TAG  REFER TO RELEVANT SCHEDULE & SPECIFICATION		
	NEI EN TO NELEVANT GOTEBBLE & GI EGITIONTON	•	SPOT ELEVATION
(#	KEYNOTES	•	(ABOVE FINISH FLOOR)
(#	REFER TO SHEET SPECIFIC KEYNOTE SCHEDULE	ROOM	DOOM TAGUMTU AREA
		NAME 101	ROOM TAG WITH AREA
		150 m2	
		##	REVISION TAG
		E	CENTRELINE
GEN	NERAL NOTES		
1.	THE CONTRACTOR WILL VERIFY ALL DIMENSIONS FOR WORK.	R THE WORK AND SI	HALL REPORT ANY DISCREPANCIES TO THE ARCHITECT PRIOR TO COMMENCEMENT OF THE
2	DRAWINGS ARE NOT TO BE SCALED FOR CONSTRUCT	ION PURPOSES	

DRAWINGS ARE NOT TO BE SCALED FOR CONSTRUCTION PURPOSES. ALL DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF LGA ARCHITECTURAL PARTNERS. ALL COPYRIGHT CONDITIONS ARE RESERVED BY THE ARCHITECT WITH RESPECT TO THESE DOCUMENTS. THESE DOCUMENTS SHALL NOT BE DUPLICATED OR USED FOR OTHER THAN THE PURPOSE FOR WHICH THEY WERE ISSUED. NO CHANGES OR SUBSTITUTIONS SHALL BE MADE TO THE WORK DESCRIBED IN THESE DRAWINGS OR SPECIFICATIONS WITHOUT THE EXPRESS WRITTEN AUTHORIZATION OF THE ARCHITECT. REFER TO THE SPECIFICATION FOR THE FULL LIST OF REQUIREMENTS AND PROCEDURES THAT MUST BE FOLLOWED TO MAKE ANY SUBSTITUTIONS. THE ARCHITECT RESERVES THE RIGHT TO REFUSE ANY REQUEST FOR SUBSTITUTION. THE ARCHITECTURAL DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE LANDSCAPE, STRUCTURAL, ELECTRICAL, MECHANICAL, CIVIL, GEOTECHNICAL, ENVIRONMENTAL CONSULTANTS DOCUMENTS. ANY DISCREPANCIES ARE TO BE REPORTED TO THE ARCHITECT PRIOR TO ANY EXECUTION OF RELATED WORK. THE CONTRACTORS SHALL ENSURE THAT MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH CONTRACT DOCUMENTS. THE CONTRACTORS SHALL ENSURE THAT THE LOCATIONS OFALL UNDERGROUND SERVICES ARE IDENTIFIED PRIOR TO THE COMMENCEMENT OF WORK AND EXCAVATIONS. THE CONTRACTOR IS FULLY RESPONSIBLE TO REPAIR ANY DAMAGE TO UNDERGROUND SERVICES THEY HAVE COMMITTED. ALL STRUCTURAL COMPONENTS TO BE TAKEN OFF THE STRUCTURAL DOCUMENTS. NO STRUCTURAL DESIGN INFORMATION SHALL BE INFERRED FROM THE ARCHITECTURAL DRAWINGS. ALL MECHANICAL COMPONENTS TO BE TAKEN OFF THE MECHANICAL DOCUMENTS. NO MECHANICAL DESIGN INFORMATION SHALL BE INFERRED FROM THE 10. ALL ELECTRICAL COMPONENTS TO BE TAKEN OFF THE ELECTRICAL DOCUMENTS. NO ELECTRICAL DESIGN INFORMATION SHALL BE INFERRED FROM THE ARCHITECTURAL DRAWINGS. 11. ALL CIVIL COMPONENTS TO BE TAKEN OFF THE CIVIL DOCUMENTS. NO CIVIL DESIGN INFORMATION SHALL BE INFERRED FROM THE ARCHITECTURAL DRAWINGS. 12. ALL LANDSCAPE COMPONENTS TO BE TAKEN OFF THE LANDSCAPE DOCUMENTS. NO LANDSCAPE DESIGN INFORMATION SHALL BE INFERRED FROM THE ARCHITECTURAL DRAWINGS.

13. THE ARCHITECTURAL DRAWINGS ARE TO BE READ IN COLOR. IT IS THE CONTRACTOR RESPONSIBILITY TO PRINT AND DISTRIBUTE TO ALL RELEVANT STAKEHOLDERS

N/A

	ARCHITECTURAL SHEET	LIS I	
A000	COVER SHEET	2	ISSUED FOR TENDER
A003	ASSEMBLIES SCHEDULE, DOOR SCHEDULE, NOTES, AND LEGENDS	2	ISSUED FOR TENDER
A051	SECOND FLOOR DEMOLITION PLAN	1	ISSUED FOR TENDER
A101	SECOND FLOOR PLAN	1	ISSUED FOR TENDER
A110	ROOF LEVEL PLAN	2	ISSUED FOR TENDER
A120	SECOND FLOOR REFLECTED CEILING PLAN	2	ISSUED FOR TENDER
A500	INTERIOR ELEVATIONS	1	ISSUED FOR TENDER
A600	MILLWORK	1	ISSUED FOR TENDER

THE CONTRACT DRAWINGS IN COLOR.



ABBREVIATIONS MAY OR MAY NOT INCLUDE PERIOD PUNCTUATION. ABBREVIATIONS APPLY TO ARCHITECTURAL DOCUMENTS ONLY.

BARRIER FREE CENTRE TO CENTRE CEILING FINISH CENTER LINE DIAMETER DIMENSION DRAWING ELEC ELECTRICAL ELEV **ELEVATION EQUAL** GEOTECH GEOTECHNICAL FIRE ANNUNCIATOR AND ALARM PANEL FINISH CEILING ELEVATION FINISH FLOOR ELEVATION FIRE RESISTANCE RATING FLOOR DRAIN MAXIMUM MECHANICAL MINIMUM NOT APPLICABLE NOT IN CONTRACT NUMBER NOT TO SCALE ONTARIO BUILDING CODE ON CENTRE OPENWEB STEEL JOIST REFLECTED CEILING PLAN **ROOF DRAIN** REQUIRED ROUGH OPENING **ROOF TOP UNIT** RAIN WATER LEADER SCHEDULE SQUARE FEET SIMILAR SQUARE METER SPEC STC SPECIFICATION SOUND TRANSMISSION CLASS STRUC STRUCTURAL TO BE DETERMINED

TYPICAL

N/A

WASHROOM

2 05/02/2024 ISSUED FOR TENDER 1 11/14/2023 DESIGN DEVELOPMENT NO. DATE DESCRIPTION

310 Spadina Ave, Suite 100B

Toronto, Ontario, Canada M5T 2E8 T: 416 203 7600 F: 416 203 3342

**NOTE:** This drawing is the property of the architect and may not be

reproduced or used without the expressed consent of the architect. The contractor shall be responsible for checking and verifying all levels and dimensions and shall report all discrepancies to the architect and obtain

DO NOT SCALE DRAWINGS

**ISSUE DATE:** 

ST ANDREW'S SENIOR PUBLIC

65 VICTORIA AVE. CAMBRIDGE, ON N1S 1X2

SHEET TITLE: **COVER SHEET** 

PROJECT NO: SCALE: DRAWN BY: **REVIEWED BY:** 

SHEET NO: A000

MECHANICAL/ELECTRICAL **OWNER ARCHITECT** STRUCTURAL CONSULTANT **CIVIL CONSULTANT** LANDSCAPE ARCHITECT CONSULTANT

WRDSB

SHEET LIST TABLE					
heet Number	Sheet Title				
M-001	MECHANICAL LEGEND AND DRAWING LIST				
M-202	PLUMBING & DRAINAGE - DEMOLITION - LEVEL 2				
M-252	PLUMBING & DRAINAGE - NEW WORK - LEVEL 2				
M-302	HVAC - DEMOLITION - LEVEL 2				
M-352	HVAC - NEW WORK - LEVEL 2				
M-353	HVAC PIPING - NEW WORK - LEVEL 2				
M-354	HVAC - DEMOLITION & NEW WORK - ROOF				
M-502	FIRE PROTECTION - DEMOLITION - LEVEL 2				
M-552	FIRE PROTECTION - NEW WORK - LEVEL 2				
M-750	MECHANICAL CONTROL SCHEMATICS				
M-751	MECHANICAL VRF SCHEMATICS AND DETAILS I				
M-800	MECHANICAL TYPICAL DETAILS I				
M-900	MECHANICAL SCHEDULES I				

### **GENERAL NOTES**

THE MECHANICAL CONTRACTOR SHALL VISIT THE SITE TO VERIFY EXISTING CONDITIONS PRIOR TO SUBMITTING BID. THIS SHALL BE DONE IN ORDER TO CONFIRM THAT EQUIPMENT AND SERVICES CAN BE INSTALLED AS SHOWN ON DRAWINGS AND THAT ADDITIONAL COSTS ARE INCLUDED IN BID TO FACILITATE INSTALLATION. IT IS THE CONTRACTORS RESPONSIBILITY TO NOTIFY THE ENGINEERS OF ANY DISCREPANCIES, OMISSIONS, AND INTERFERENCES. CONTRACTOR SHALL PROVIDE INTERFERENCE DRAWINGS TO CONSULTANT FOR REVIEW AND DIRECTION. CONTRACTOR SHALL VERIFY ALL CONNECTIONS, PIPE SIZES AND LOCATION OF EXISTING SERVICES AT POINTS OF CONNECTIONS ON SITE AND REPORT ANY DISCREPANCY TO THE CONSULTANT PRIOR TO FABRICATION &/OR INSTALLATION OF NEW SERVICES.

ENSURE THAT ALL NEW AND EXISTING MECHANICAL EQUIPMENT REQUIRING MAINTENANCE IS ACCESSIBLE AND THAT ACCESS REQUIREMENTS ARE NOT OBSTRUCTED BY NEW OR EXISTING SERVICES AND STRUCTURE. COORDINATE WITH PROJECT MANAGER AND ALL OTHER TRADES. INSTALL MECHANICAL EQUIPMENT IN SUCH A WAY AS TO PROVIDE ALL ACCESS REQUIREMENTS. REFER TO SHOP DRAWINGS AND/OR MANUFACTURER'S RECOMMENDATIONS FOR ACCESS REQUIREMENTS. REPORT ANY OBSTRUCTIONS TO THE PROJECT MANAGER AND MECHANICAL ENGINEER. PROVIDE ACCESS DOORS/PANELS WITH MINIMUM DIMENSIONS AS NOTED BELOW (UNLESS INDICATED OTHERWISE ON DRAWINGS): 2.1. 24 INCHES BY 24 INCHES FOR PERSONNEL ENTRY.

18 INCHES BY 18 INCHES FOR HAND ENTRY. 12 INCHES BY 12 INCHES FOR VIEWING ONLY.

2.4. SIZE DOORS TO ALLOW ADEQUATE OPERATING/MAINTENANCE CLEARANCE FOR DEVICES. 2.5. ACCESS DOORS SHALL BE, WHEREVER POSSIBLE, OF A STANDARD SIZE FOR EACH APPLICATION.

SUPPLY ALL LABOUR AND MATERIALS TO PROVIDE A COMPLETE MECHANICAL INSTALLATION. ITEMS NOT EXPLICITLY ILLUSTRATED ON THE DRAWINGS ARE NOT TO BE EXCLUDED FROM THE SCOPE OF WORK IF REQUIRED AS PART OF A PROPER INSTALLATION. PERMITS, TESTING, BALANCING, AND OCCUPANT OPERATIONAL TRAINING WILL BE PART OF THE WORK.

PROVIDE ALL REQUIRED CUTTING AND PATCHING OF EXISTING CEILINGS AND WALLS TO FACILITATE DEMOLITION AND THE INSTALLATION OF THE MECHANICAL SERVICES OUTLINED FOR THIS SCOPE OF WORK.

WELDING TO BE PERFORMED WITH STRINGENT ENVIRONMENTAL CONDITIONS FOR SMOKE AND FUME EVACUATION.

. THE MECHANICAL DRAWINGS ARE PERFORMANCE DRAWINGS, DIAGRAMMATIC, AND SHOW APPROXIMATE LOCATIONS OF EQUIPMENT AND CONNECTING SERVICES. ANY INFORMATION REGARDING ACCURATE MEASUREMENT OF THE BUILDING ARE TO BE TAKEN AT THE SITE. DO NOT SCALE THE DRAWINGS, AND DO NOT USE THE DRAWINGS FOR PREFABRICATION WORK.

FOR CLARITY. NOT ALL EXISTING EQUIPMENT, DUCTWORK, PIPING, ETC. HAS BEEN SHOWN ON THE DRAWINGS. THE EXISTING EQUIPMENT, PIPES, DUCTS AND SERVICES ARE SHOWN FOR REFERENCE ONLY. EXACT LOCATIONS, SIZES AND DIMENSIONS SHALL BE DETERMINED ON SITE. WHERE INTERFERENCES EXIST, CONTRACTOR SHALL REROUTE THE NEW WORK TO SUIT THE EXISTING PIPING.

8. NOT ALL CONNECTIONS TO EQUIPMENT ARE SHOWN. REFER TO THE MANUFACTURERS LITERATURE FOR ALL PIPING CONNECTIONS.

ONTRACTOR IS TO BE RESPONSIBLE FOR THE REMOVAL AND DISPOSAL OF ALL DUCTWORK AND EQUIPMENT AS SHOWN ON THE DEMOLITION PLAN UNLESS NOTED OTHERWISE.

10. COORDINATE, WITH THE OWNER AND GENERAL CONTRACTOR, ALL TEMPORARY SHUT DOWNS. PROVIDE THE DATE AND PERIOD OF THE TIME REQUIRED FOR DISCONNECTING AND MAKING NEW CONNECTIONS TO PIPING, DUCTING, AND ALL RELATED MECHANICAL WORK IN ORDER TO KEEP THE INTERRUPTIONS OF DAILY OPERATIONS AS MINIMAL AS POSSIBLE. INCLUDE FOR FREEZING WHERE REQUIRED. IT IS RECOMMENDED THAT THE CONTRACTOR PROVIDE MINIMUM 7 WORKING DAYS NOTICE TO THE OWNER, FOR ANY SHUTDOWN REQUIRED.

1. SURVEY ALL AFFILIATED WORK AREAS AND REPORT ABNORMALITIES AND DISCREPANCIES TO CONSULTANT.

2. WHERE CEILING, FLOOR, WALL OR ROOF OPENINGS ARE REQUIRED TO RUN MECHANICAL SERVICES, SEAL ALL OPENINGS WITH APPROVED FIRE-STOPPING MATERIALS AS REQUIRED. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

13. IF ASBESTOS CONTAINING MATERIAL IS SUSPECTED OR IDENTIFIED IN THE WORK AREA AND REQUIRED TO BE HANDLED AS PART OF THE DEMOLITION PHASE OF THE PROJECT, CONTRACTOR SHALL HALT WORK AND INFORM CONSULTANT OF SUCH CONDITIONS. CONTRACTOR SHALL NOT PROCEED WITH DEMOLITION OF SUCH AREAS WITHOUT AUTHORIZATION BY CONSULTANT. REMOVAL OF SUCH MATERIALS TO ACCOMMODATE THE WORK DESCRIBED AND OUTLINED IN THESE DRAWINGS SHALL BE ARRANGED THROUGH THE OWNER. ASBESTOS ABATEMENT, IF ANY, IS EXCLUDED FROM THIS CONTRACT AND WILL BE HANDLED SEPARATELY BY OWNER.

WITHIN THE WORK AREA TO FACILITATE ALL NEW MECHANICAL WORK, UNLESS OTHERWISE NOTED BY THE OWNER OR ON THE DRAWINGS. 15. INSULATE ALL NEW DUCTWORK AND AND ANY EXISTING DUCTWORK WHERE INSULATION HAS BEEN REMOVED OR DAMAGED BY THIS WORK . REFER TO

4. ALL ABANDONED OR OBSOLETE MECHANICAL SERVICES SUCH AS VALVES, PIPING, EQUIPMENT, INSTRUMENTATION, ETC. SHALL BE REMOVED FROM

16. CONTRACTOR TO PROVIDE AIR AND WATER BALANCING PRE-TESTS. CONTRACTOR TO PROVIDE CUTTING & PATCHING FOR THE INSTALLATION OF HIS

WORK. EMPLOY THE SERVICES OF THE GENERAL TRADES CONTRACTOR IF NECESSARY. 17. COORDINATE NEW SERVICES WITH EXISTING BUILDING STRUCTURE, EXISTING SERVICES & WORK.

18. ANY SERVICES THAT ARE NOT SHOWN ON THE DRAWINGS AND ARE EXPOSED DURING DEMOLITION/CONSTRUCTION SHALL BE VERIFIED BY THE

19. CONTRACTOR SHALL COORDINATE WITH ALL NEW AND EXISTING MECHANICAL AND ELECTRICAL SERVICES WHEN MAKING THE PIPE AND, DUCTING, AND EQUIPMENT CONNECTIONS ON SITE.

20. CONTRACTOR TO PROVIDE TEMPORARY HEATING/COOLING AND VENTILATION FOR AREAS AFFECTED BY TEMPORARY SHUT-DOWN.

21. DO NOT INTERRUPT EXISTING MECHANICAL SERVICES OCCUPIED OR ADJACENT AREAS OUTSIDE THE SCOPE UNLESS APPROVED BY THE OWNER. 22. ALL DEMOLITION WORK SHALL BE PERFORMED WITH DUE CARE AND DILIGENCE. SO AS TO PREVENT THE UNNECESSARY DESTRUCTION AND/OR DAMAGE

TO SYSTEMS THAT SHALL REMAIN IN OPERATION DURING THE CONSTRUCTION PHASE OF THIS WORK. 23. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY DAMAGES THAT MIGHT OCCUR TO THE MECHANICAL SYSTEMS DURING CONSTRUCTION.

CONTRACTOR SHALL PROTECT ANY AND ALL PORTIONS OF THE EXISTING MECHANICAL SYSTEMS. 24. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT DAMAGE TO OWNER'S OCCUPIED AREAS ADJACENT TO THE NEW

25. CONTRACTOR TO PAY FOR AND OBTAIN ALL REQUIRED PERMITS .FEES, LICENSES CERTIFICATES OF INSPECTION, ETC. IF REQUIRED.

26. CONTRACTOR SHALL BE RESPONSIBLE FOR PROPERLY SEALING PENETRATIONS THROUGH FIRE RATED, SMOKE RATED OR COMBINATION FIR & SMOKE RATED SEPARATIONS. SEE SPECIFICATIONS FOR FIRE & SMOKE RATED SEALANTS. CONTRACTOR TO STOP INSULATION FLUSH WITH ALL WALL AND FLOOR

SURFACES AND SEAL SPACE BETWEEN PIPE , DUCT, AND SLEEVE WITH ULC APPROVED AND LISTED FIRE STOPPING MATERIAL AS REQUIRED.

27. CONTRACTOR TO PROVIDE APPARATUS WITH PROPER NAMEPLATES AFFIXED THERE TO , SHOWING THE SIZE, NAME OF THE EQUIPMENT, SERIAL NUMBER AND ALL INFORMATION USUALLY PROVIDED, WHICH ALSO INCLUDES VOLTAGE, CYCLE, PHASE AND HORSEPOWER OF MOTORS AND THE NAME AND ADDRESS OF THE MANUFACTURER.

28. COORDINATE MECHANICAL WORK WITH WORK OF ALL OTHER DIVISIONS.

29. ALL CRANING WORK TO BE COORDINATED WITH OWNER, AND SCHEDULED. ALLOW FOR WEEKEND WORK.

30. CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS WITHIN 2 WEEKS AFTER COMMISSIONING IS COMPLETED.

31. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR REINSTALLATION AND RECONNECTION OF ALL SUCH SERVICES TO MATCH EXISTING STANDARDS. CONTRACTOR SHALL INCLUDE ALL COSTS FOR SITE INVESTIGATION TO SOURCE DELETE SERVICES REQUIRED FOR RE-CONNECTION OF EXISTING SERVICES THAT MUST REMAIN. INCLUDE IN YOUR BID ALL COSTS ASSOCIATED WITH SITE INVESTIGATION, ETC, AND ALL REQUIRED COSTS FOR THIS WORK. REVIEW AND NOTE EXISTING CONDITIONS AND CONFIRM EXACT SITE CONDITIONS.

32. CONTRACTOR TO REPAIR BEAMS FIRE RATING SAME WITH PREVIOUS FIRE RATING WHERE SECURING SUPPORTS TO THE EXISTING FIRE RATED BEAMS. 33. WRDSB'S APPROVED VENDORS FOR SERVICES NOTED BELOW:

BAS/ CONTROLS: ENERGY CONTROLS

CONTRACTOR AND REPORTED TO THE CONSULTANT.

MECHANICAL LEGEND				
SYMBOL	DESCRIPTION			
	CONTROLS			
SF	SUPPLY FAN			
RF	RETURN EXHAUST FAN			
EF	EXHAUST FAN			
H/ /C	HEATING COIL			
c/ /c	COOLING COIL			
P/ /C	PRE-HEAT COIL			
	FILTERS			
SA	SUPPLY AIR			
EA	EXHAUST AIR			
OA	OUTDOOR AIR			
RA	RETURN AIR			
MD				
MSP	MOTORIZED DAMPER			
	MOTOR STARTER PANEL			
MCC	MOTOR CONTROL CENTER			
$\overline{}$	HUMIDIFIER			
NO NG	NORMALLY OPEN			
NC VFD	NORMALLY CLOSED  VARIABLE FREQUENCY DRIVE			
   <del> </del>	ACTUATOR CLOSED END SWITCH			
[1]	ACTUATOR OPEN END SWITCH			
FS	FLOW SWITCH			
LS	LEVEL SWITCH			
PS	PRESSURE SWITCH			
NC	ACTUATOR NORMALLY CLOSED DE-ENERGIZED POSITION			
NO	ACTUATOR NORMALLY OPEN DE-ENERGIZED POSITION			
	ACTUATOR FAIL OPEN POSITION			
$\boxtimes$	ACTUATOR FAIL CLOSED POSITION			
FL	ACTUATOR FAIL LAST POSITION			
<u> </u>	TWO-POSITION ACTUATOR			
	MODULATING ACTUATOR			
P	PRESSURE SENSOR			
(P)	DIFFERENTIAL PRESSURE SENSOR			
	VELOCITY SENSOR			
(vs) (H)	HUMIDITY SENSOR			
	TEMPERATURE SENSOR			
(T)	OCCUPANCY SENSOR			
(os)	CARBON MONOXIDE SENSOR			
(vo)				
(NO) (O <sub>2</sub> )	NOX SENSOR  OXYGEN SENSOR			
GDP	GAS DETECTION SYSTEM CONTROL PANEL			
¤	VISUAL INDICATOR ALARM			
	AUDIBLE INDICATOR ALARM			
BAS	BUILDING AUTOMATION SYSTEM			
Al	ANALOG INPUT			
AO	ANALOG OUTPUT			
DI DO	DIGITAL INPUT DIGITAL OUTPUT			
GP	BAS GRAPHICS POINT			
AP	BAS ADJUSTABLE SET POINT			
BV HOA	BACNET BINARY VARIABLE HAND-OFF-AUTO			
HUA	CONTROL WIRING			
THIS LEGEND IS GENERIC. ALL SYMBOLS LISTED MAY NOT BE APPLICABLE				
FOR THIS PROJECT. REFER TO DEVICES AND EQUIPMENT.	O FLOOR PLANS TO DETERMINE USED			

MECHANICAL LEGEND  SYMBOL DESCRIPTION				
STIVIDUL	GENERAL			
	EXISTING TO REMAIN			
	EXISTING TO BE DEMOLISHED			
R	EXISTING TO BE REMOVED FOR RELOCATION			
R	EXISTING RELOCATED IN NEW WORK			
	NEW WORK			
CTE	CONNECT TO EXISTING			
· •	AIRFLOW / PIPE FLOW DIRECTION			
DN	PIPE TURNING DOWN			
	PIPE TURNING UP			
×	PRESSURE REDUCING VALVE			
T	ROOM THERMOSTAT			
Н	ROOM HUMIDISTAT			
	PUMP			
Ř	AUTOMATIC CONTROL VALVE - TWO WAY			
Ŕ	AUTOMATIC CONTROL VALVE - THREE WAY			
$\bowtie$	ISOLATION VALVE			
$\bowtie$	BALANCING VALVE			
	CHECK VALVE			
	STRAINER - OVER 50MM WITH VALVED FLUSHING DRAIN			
J	PIPE BRANCH OFF TOP			
Ç	PIPE BRANCH OFF BOTTOM			
	RELIEF VALVE (PIPE TO DRAIN)			
***	VACUUM BREAKER VALVE			
	VENTURI VALVE			
$\Diamond$	PRESSURE GAUGE			
	TEMPERATURE GAUGE			
	STAINLESS STEEL BRAIDED FLEXIBLE HOSES			
——] CAP	CAP			
	SOLENOID VALVE			
	SOLENOID VALVE			
	FUSIBLE LINK VALVE			
<del>x                                    </del>	ELECTRIC HEAT TRACING			

MECHANICAL LEGEND		MECHANICAL LEGEND			
DESCRIPTION		SYMBOL DESCRIPTION			
	CONTROLS	1	PLUMBING		
$\overline{}$		SAN	SANITARY DRAINAGE - ABOVE GROUND		
SF	SUPPLY FAN	SAN	SANITARY DRAINAGE - UNDERGROUND SANITARY DRAINAGE (ACID RESISTANT) -		
RF	RETURN EXHAUST FAN	SAN(AR)	ABOVE GROUND  SANITARY DRAINAGE (ACID RESISTANT)		
EF /	EXHAUST FAN	STM	UNDERGROUND STORM DRAINAGE - ABOVE GROUND		
		STM	STORM DRAINAGE - UNDERGROUND		
H/C	HEATING COIL	——————————————————————————————————————	PUMPED DISCHARGE DOMESTIC COLD WATER SUPPLY		
c/ c	COOLING COIL		DOMESTIC HOT WATER SUPPLY		
P/C	PRE-HEAT COIL	TW	DOMESTIC HOT WATER RECIRC.  TEMPERED WATER		
		——————————————————————————————————————	ACID RESISTANT VENT		
	FILTERS		VENT		
— SA →	SUPPLY AIR	RO	REVERSE OSMOSIS PIPING		
EA	EXHAUST AIR	ISO	RADIO ISOTOPE DRAIN		
<b>—</b>	EXHAUST AIN	CA	COMPRESSED AIR		
$ \stackrel{OA}{\longrightarrow}$	OUTDOOR AIR		HEAT TRACING		
RA	RETURN AIR	U	RUNNING TRAP		
_	TAL FORMATION	- V	P-TRAP		
/\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	MOTORIZED DAMPER	O <sup>ES</sup>	EMERGENCY SHOWER		
MSP	MOTOR STARTER PANEL	⊝ <sup>EW</sup>	EYE WASH  CLEANOUT IN FLOOR/BELOW GRADE		
MCC	MOTOR CONTROL CENTER		CLEANOUT IN FLOOR/BELOW GRADE		
$\wedge$	HUMIDIFIER	● HB	HOSE BIBB		
NO	NORMALLY OPEN	● NFHB	NON FREEZE HOSE BIBB		
NC	NORMALLY CLOSED	<b>●</b> ⊣ G	SINGLE GAS OUTLET		
VFD	VARIABLE FREQUENCY DRIVE	<b>€</b> , G	DOUBLE GAS OUTLET		
¥	ACTUATOR CLOSED END SWITCH	● CA	COMPRESSED AIR OUTLET		
	ACTUATOR OPEN END SWITCH	●RD	ROOF DRAIN		
FS	FLOW SWITCH	● CFRD	CONTROL FLOW ROOF DRAIN		
LS	LEVEL SWITCH	● VTR ■ RWL	VENT THROUGH ROOF		
PS	PRESSURE SWITCH	→ NWL TSP	RAIN WATER LEADER TRAP SEAL PRIME		
	ACTUATOR NORMALLY CLOSED		SCUPPER DRAIN		
NC	DE-ENERGIZED POSITION	MH			
NO	ACTUATOR NORMALLY OPEN DE-ENERGIZED POSITION		MANHOLE		
	ACTUATOR FAIL OPEN POSITION	CB	CATCH BASIN		
$\boxtimes$	ACTUATOR FAIL CLOSED POSITION	TD ●AD	TRENCH GRATE & FRAME		
FL	ACTUATOR FAIL LAST POSITION	©FFD	AREA DRAIN FUNNEL FLOOR DRAIN		
<u> </u>	TWO-POSITION ACTUATOR	● FD	FLOOR DRAIN		
$\overline{\triangleright}$	MODULATING ACTUATOR	OHD	HUB DRAIN		
P	PRESSURE SENSOR	FS	FLOOR SINK		
(DP)	DIFFERENTIAL PRESSURE SENSOR	₩ TDD	TERRACE DECK DRAIN		
(VS)	VELOCITY SENSOR	Ø FRD	FLOOR DRAIN - FLUSHING RIM		
H	HUMIDITY SENSOR	M	WATER METER ASSEMBLY		
T	TEMPERATURE SENSOR	<u> </u>	GAS METER		
OS	OCCUPANCY SENSOR		BACK WATER VALVE		
CO	CARBON MONOXIDE SENSOR	BFP	BACKFLOW PREVENTER		
NO	NOX SENSOR	"WC-1"	DENOTES FIXTURE TYPE PER SPECIFICATION		
O <sub>2</sub>	OXYGEN SENSOR		LL SYMBOLS LISTED MAY NOT BE APPLICAB TO FLOOR PLANS TO DETERMINE USED		
GDP	GAS DETECTION SYSTEM CONTROL PANEL	DEVICES AND EQUIPMENT.			
X	VISUAL INDICATOR ALARM				
	AUDIBLE INDICATOR ALARM	MECHA	ANICAL LEGEND		
RAS	BUILDING AUTOMATION SYSTEM	SYMBOL	DESCRIPTION		

	l iiiws	SUPPLY
LE	—— ——HTGR—— ——	HIGH TEMPERATURE HEATING GLYCOL RETURN
)LE	HTGS	HIGH TEMPERATURE HEATING GLYCOL SUPPLY
	cwr	CONDENSER WATER RETURN
	cws	CONDENSER WATER SUPPLY
	— — CHR — —	CHILLED WATER RETURN
	CHS	CHILLED WATER SUPPLY
	— — CHGR — —	CHILLED GLYCOL RETURN
	CHGS	CHILLED GLYCOL SUPPLY
	— — CNDR — —	CONDENSATE DRAIN
	PC	PUMPED CONDENSATE
	— — REFR — —	REFRIGERANT GAS
	REFS	REFRIGERANT LIQUID
	LPS	LOW PRESSURE STEAM
	LPC	LOW PRESSURE CONDENSATE
	HPS	HIGH PRESSURE STEAM
	HPC	HIGH PRESSURE CONDENSATE
		VENT
		STEAM VENT
	GEOS	GEO-EXCHANGE SUPPLY
	— — GEOR — —	GEO-EXCHANGE RETURN
	FOS	FUEL OIL SUPPLY
	— — FOR— —	FUEL OIL RETURN
	FOV	FUEL OIL VENT
	F00	FUEL OIL OVERFLOW
_	BB - XXX	ELECTRIC BASEBOARD HEATER OUTPUT AS SHOWN (KW)
AY	ECH	ELECTRIC CABINET HEATER
	□ <u>CU</u> H	CABINET HEATER
	CV	UNIT HEATER  CONVECTOR - LENGTH - HEAT OUTPUT
	1200-5.6	(KW)
	1200-5.6	WALL FIN - LENGTH - HEAT OUTPUT (KW)
	——————————————————————————————————————	UNION
	*	MANUAL AIR VENT
	Ŷ	AUTOMATIC AIR VENT
	- <del>===-</del>	EXPANSION COMPENSATOR
	<u> П</u>	EXPANSION SWING
	×	PIPE ANCHOR
		PIPE GUIDE
		PIPE SLEEVE
	<b>≥</b>	FLOAT & THERMOSTATIC TRAP
	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	INVERTED BUCKET TRAP
	₹1	ELECTRIC TRACING  RADIANT PANEL - 8 DENOTES DEPTH,
BLE	8C-600-1100 = 2.1	600MM DENOTES HEIGHT, 1100MM DENOTES LENGTH & 2.1 HEAT OUTPUT (KW)
	•	L SYMBOLS LISTED MAY NOT BE APPLICABLE O FLOOR PLANS TO DETERMINE USED

FOR THIS PROJECT. REFER TO FLOOR PLANS TO DETERMINE USED

DEVICES AND EQUIPMENT.

DESCRIPTION

**HEATING & COOLING** 

HIGH TEMPERATURE HEATING WATER

HIGH TEMPERATURE HEATING WATER

——HWR—— HEATING WATER RETURN

—HGS——— HEATING GLYCOL SUPPLY

SUPPLY

HEATING WATER SUPPLY

— HGR — HEATING GLYCOL RETURN

— — HTWR— —

	MECHAN	ICAL LEGEND
S	YMBOL	DESCRIPTION
L	V	ENTILATION
	FD L	FUSIBLE LINK FIRE DAMPER
	1—1	
	SD	SMOKE DAMPER
		GINGRE BY WIN ER
	SFD	COMBINATION SMOKE/FIRE
	<u> </u>	DAMPER
	BDD	DAGK DDAFT DAMPED
		BACK DRAFT DAMPER
	BD	
	<u></u>	BALANCING DAMPER
	<u>M</u>	
		MOTORIZED DAMPER
	₹ WxH ₹	RECTANGULAR DUCTWORK -
		DIMENSION AS SHOWN ROUND DUCTWORK - DIMENSIO
	<del>\</del> XXXØ	AS SHOWN
		RECTANGULAR SUPPLY DUCT U
		RECTANGULAR EXHAUST/RETU
		DUCT UP  CIRCULAR SUPPLY/OUTDOOR A
		DUCT UP
		CIRCULAR EXHAUST/RETURN A DUCT UP
		RECTANGULAR SUPPLY DUCT
		DOWN  RECTANGULAR EXHAUST/RETU
		DUCT DOWN
		CIRCULAR SUPPLY/OUTDOOR A
	$\overline{\mathcal{O}}$	CIRCULAR EXHAUST/RETURN A
		DUCT DOWN
	[xxxx]	MITRED ELBOW WITH TURNING VANES
		SUPPLY GRILLE - DIMENSIONS SHOWN ON SCHEDULE
		EXHAUST/RETURN GRILLE -
	<del> </del>	DIMENSIONS SHOWN ON SCHEDULE
	$\sim$	CEILING SUPPLY AIR DIFFUSER DIMENSIONS SHOWN ON
		SCHEDULE
		SUPPLY AIR LINEAR SLOT DIFFUSER - DIMENSIONS SHOW
		ON SCHEDULE
		CEILING EXHAUST/RETURN GRI - DIMENSIONS SHOWN ON
		SCHEDULE
	(0)	SUPPLY AIR ROUND DIFFUSER
		BRANCH TAKE-OFF WITH ADJUSTABLE SPLITTER DAMPE
		SUPPLY DUCT
	O.E.D.	OPEN ENDED DUCT WITH BALANCING DAMPER AND
		BELLMOUTH. DIRECTION AS SHOWN
		FLEXIBLE DUCT CONNECTION
	7	I LEXIBLE DOCT CONNECTION
		ACOUSTICALLY LINED DUCTWO
	SL	SILENCER (ATTENUATOR)
		FLEXIBLE DUCT (DOUBLE LINE)
		FLEXIBLE DUCT (SINGLE LINE)
	, — -	. II. IIII BOOT (ONYOLE ENVE)
	<u> </u>	FLEXIBLE DUCT CONNECTION V
	<u>)</u> /	BALANCING DAMPER ON TAKE-0
$\vdash$	/	
		DUCT MOUNTED HEATING COIL
	н Ти	SUPPLY AIR TERMINAL BOX C/M
	<u>4VI</u>	REHEAT COIL AND ATTENUATOR
ı		SUPPLY AIR TERMINAL BOX C/W

	DUCT UP
	CIRCULAR SUPPLY/OUTDOOR AIR DUCT UP
2	CIRCULAR EXHAUST/RETURN AIR DUCT UP
	RECTANGULAR SUPPLY DUCT
	DOWN RECTANGULAR EXHAUST/RETURN
	DUCT DOWN  CIRCULAR SUPPLY/OUTDOOR AIR
	DUCT DOWN
	CIRCULAR EXHAUST/RETURN AIR DUCT DOWN
[xxxxx	MITRED ELBOW WITH TURNING VANES
	SUPPLY GRILLE - DIMENSIONS
——	SHOWN ON SCHEDULE  EXHAUST/RETURN GRILLE -
<u></u>	DIMENSIONS SHOWN ON SCHEDULE
X	CEILING SUPPLY AIR DIFFUSER - DIMENSIONS SHOWN ON SCHEDULE
	SUPPLY AIR LINEAR SLOT DIFFUSER - DIMENSIONS SHOWN
	ON SCHEDULE CEILING EXHAUST/RETURN GRILLE
	- DIMENSIONS SHOWN ON SCHEDULE
	SUPPLY AIR ROUND DIFFUSER
	BRANCH TAKE-OFF WITH ADJUSTABLE SPLITTER DAMPER IN SUPPLY DUCT
O.E.D.	OPEN ENDED DUCT WITH BALANCING DAMPER AND BELLMOUTH. DIRECTION AS SHOWN
	FLEXIBLE DUCT CONNECTION
£==3	ACOUSTICALLY LINED DUCTWORK
	SILENCER (ATTENUATOR)
SL SHIIIIIIIIIII	FLEXIBLE DUCT (DOUBLE LINE)
	FLEXIBLE DUCT (SINGLE LINE)
<u> </u>	,
<b>\</b>	FLEXIBLE DUCT CONNECTION WITH BALANCING DAMPER ON TAKE-OFF
	DUCT MOUNTED HEATING COIL
	SUPPLY AIR TERMINAL BOX C/W REHEAT COIL AND ATTENUATOR.
	SUPPLY AIR TERMINAL BOX C/W
	ATTENUATOR.  RETURN / EXHAUST AIR TERMINAL
——————————————————————————————————————	BOX ATTENUATOR.  FIRE RATED DUCTWORK (DOUBLE
	LINE)
	DUCT TRANSITION FROM RECTANGULAR TO ROUND
	RECTANGULAR DUCT BREAK
8	ROUND DUCT BREAK
<u> </u>	SINGLE LINE DUCT BREAK
U/C → <b>~</b>	3/4" DOOR UNDERCUT
	TRANSFER AIR DUCT
0	SUPPLY AIR LIGHT TROFFER
U/C → <del>-</del>	3/4" DOOR UNDERCUT
TYPE NECK SIZE	
↓ (mm) A-200Ø-100	DIFFUSER TAG
AIRFLOW IN CFM	
TYPE AIRFLOW IN CFM	
A-100 A-WxH-100	GRILLE TAG
AIRFLOW GRILLE SIZE	
	OLS LISTED MAY NOT BE APPLICABLE R PLANS TO DETERMINE USED
TON THIS I NOSECT. NEI EN TO LEGO	TO BETERWINE COLD

MECHA	ANICAL LEGEND	
F	FIRE PROTECTION	
SYMBOL	DESCRIPTION	
—SP	SPRINKLER LINE	
—FM	FIRE MAIN	
—-F	STANDPIPE	
VFA 🖁	WATER FLOW ALARM	PROJECT
SV	SUPERVISED VALVE	ST A
PS T	PRESSURE SWITCH	SEN
Ϋ́,	TEST CONNECTION	SCH
ď,	SPRINKLER FIRE DEPARTMENT CONNECTION	
•	PENDENT SPRINKLER HEAD	⊢AIR
<b>©</b>	UPRIGHT SPRINKLER HEAD	UPG
0	CONCEALED SPRINKLER HEAD	UPG
$\otimes$	FIRE SUPPRESSION (CLEAN AGENT) HEAD	
$\prec$	SIDEWALL SPRINKLER HEAD	65 VICTO
⊠ PIV	POST-INDICATOR VALVE	
SVC	SPRINKLER VALVE CABINET	SHEET TI
FEC	FIRE EXTINGUISHER CABINET	
FHC	FIRE HOSE CABINET	ME
F	FIRE EXTINGUISHER C/W WALL BRACKET	
<del>-</del>	FIRE HYDRANT C/W SHUT-OFF VALVE	
	AIR COMPRESSOR	
	PRESSURE SWITCH	
5//	WATER FLOW ALARM	
	EXCESS PRESSURE PUMP	
X	WET ALARM CHECK VALVE	PROJECT
J †	TEST & DRAIN VALVE	SCALE:

---WATER FLOW ALARM

PRESSURE SWITCH

-TEST & DRAIN VALVE

THIS LEGEND IS GENERIC. ALL SYMBOLS LISTED MAY NOT BE APPLICABLE FOR THIS PROJECT. REFER TO FLOOR PLANS TO DETERMIN

USED DEVICES AND EQUIPMENT.

-DRY ALARM CHECK VALVE



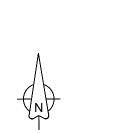
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ISSUED FOR TENDER 2025-05-02 ISSUED FOR DD CLIENT REVIEW 2025-04-11 ISSUED FOR DD CLIENT REVIEW 2025-03-26 **ISSUE DATE:** 

ANDREW'S NIOR PUBLIC HOOL -CONDITIONING GRADE

ORIA AVE. CAMBRIDGE, ON N1S 1X2

TITLE:

ECHANICAL LEGEND AND DRAWING LIST

CT NO: 22988 **AS SHOWN** DRAWN BY:

REVIEWED BY: T.P. / I.I.

SHEET NO:



CONFIRMED ON SITE. CONTRACTOR TO REVIEW EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF WORK AND PROVIDE CONSULTANT ANY DISCREPANCIES BASED ON SITE CONDITIONS AS CONTRACTOR TO INCLUDE FOR TEMPORARY ISOLATION OF EXISTING PLUMBING SERVICES OF DCW/DHW/DHWR PIPING SYSTEM FOR DRAINAGE OR PIPE FREEZING TO FACILITATE WORK.



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CLASSROOM	CLASSROOM [303.] 85.5 m²	EXISTING KITCHEN SINK TO CAP DCW, DHW, SANITAR VENT PIPING. PREPARE FOONNECTION AT NEW PH	Y DRAINAGE AND OR CONDENSATE ASE		
		RESOURCE ROOM [305] 44.1 m²	CLASSROOM  [307]  83.7 m²	CLASSROOM [309] 78.4 m²	
CLASSROOM [302] 71.4 m²	CLASSROOM  304  80.0 m²	CYW OFFICE [306]	CLASSROOM  [308]  79.5 m²		- EXISTING KITCHEN SINK TO BE REMOVED. CAP DCW, DHW, SANITARY DRAINAGE AND VENT PIPING. PREPARE FOR CONDENSATE CONNECTION AT NEW WORK PHASE. CONTRACTOR TO TURN OVER DISHWASHER TO SCHOOL BOARD AFTER REMOVAL. (TYP. OF 2)
		22.6 m²		CLASSROOM [310] 99.8 m²	

3 ISSUED FOR TENDER 2 ISSUED FOR DD CLIENT REVIEW ISSUED FOR DD CLIENT REVIEW

ISSUE DATE:

PROJECT:

ST ANDREW'S SENIOR PUBLIC SCHOOL -AIR CONDITIONING UPGRADE

65 VICTORIA AVE. CAMBRIDGE, ON N1S 1X2

SHEET TITLE:

PLUMBING & DRAINAGE -DEMOLITION - LEVEL 2

**PROJECT NO**: 22988 SCALE: AS SHOWN DRAWN BY: REVIEWED BY: T.P. / I.I.

SHEET NO:

### PLUMBING GENERAL NOTES - NEW WORK

PLUMBING AND SANITARY DRAINAGE LAYOUTS AS SHOWN ON PLANS IS TO SHOW DESIGN INTENT. CONTRACTOR SHALL COORDINATE ROUTING AND ALL NECESSARY FITTINGS TO ACCOMMODATE THE SITE CONDITIONS AND TO MEET THE DESIGN INTENT. VISIT THE SITE TO VERIFY EXISTING CONDITIONS PRIOR TO SUBMITTING BID. THIS SHALL BE DONE IN ORDER TO CONFIRM THAT EQUIPMENT AND SERVICES CAN BE INSTALLED AS SHOWN ON DRAWINGS AND THAT ADDITIONAL COSTS ARE INCLUDED IN BID TO FACILITATE INSTALLATION. NOTIFY THE ENGINEERS OF ANY DISCREPANCIES, OMISSIONS, AND INTERFERENCES. PROVIDE FOR ALL REQUIRED CUTTING AND PATCHING OF EXISTING CEILINGS AND WALLS TO FACILITATE THE INSTALLATION OF THE MECHANICAL SERVICES OUTLINED

FOR THIS SCOPE OF WORK. ALL WORK TO BE DONE IN ACCORDANCE WITH THE ONTARIO BUILDING CODE AND ALL OTHER REGULATORY REQUIREMENTS COORDINATE PLUMBING WITH WORK OF OTHER TRADES PRIOR TO FABRICATION OR

INSTALLATION. PROVIDE ALL FITTINGS, OFFSETS AND TRANSITIONS REQUIRED FOR COMPLETE WORKABLE INSTALLATION. ALL GRAVITY DRAINAGE PIPING 100Ø AND LARGER TO BE SLOPED AT 1% UNLESS NOTED OTHERWISE. ALL DRAINAGE PIPING, 75Ø AND LESS TO BE SLOPED AT 2%.

PROVIDE INSULATION AND PVC JACKETING FOR ALL NEW PIPING PER SPECIFICATIONS

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TERMINATE CONDENSATE  DRAIN AT EXIST. MOP SINK.  ALLOW FOR CUTTING DRYWALL  CEILING TO GAIN ACCESS  50Ø CONDENSATE DRAIN  SERVICING CONDENSATE  ROOF DRAIN ABOVE.	TERMINATE NEW PUMPED CONDENSATE DRAIN AT EXIST. SANITARY STACK SERVICING PREVIOUSLY REMOVED KITCHEN SINK. MODIFY SANITARY STACK TO ACCOMMODATE CONDENSATE DRAIN	
CLASSROOM (CLASSROOM) (CLASSRO	RESOURCE ROOM [305] 44.1 m²  CO  CD PUMPED  FCU-305  PCU-305  CLASSROOM [307.] 83.7 m²  CD PUMPED  FCU-307	
		NEW CONDENSATE DRAIN SERVICING CONDENSATE ROOF DRAIN ABOVE.

3 ISSUED FOR TENDER 2 ISSUED FOR DD CLIENT REVIEW ISSUED FOR DD CLIENT REVIEW

ISSUE DATE:

PROJECT:

ST ANDREW'S SENIOR PUBLIC SCHOOL -AIR CONDITIONING UPGRADE

65 VICTORIA AVE. CAMBRIDGE, ON N1S 1X2

SHEET TITLE:

PLUMBING & DRAINAGE -NEW WORK - LEVEL 2

**PROJECT NO**: 22988 SCALE: AS SHOWN **DRAWN BY:** 

REVIEWED BY: T.P. / I.I.

VENITLATION GENERAL NOTES - DEMOLITION

ALL EXISTING MECHANICAL SERVICES SHOWN IN THIS DRAWING TO REMAIN UNLESS NOTED OTHERWISE. THE LOCATION OF ALL EXISTING MECHANICAL EQUIPMENT, DUCTWORK, CONTROLS AND ACCESSORIES ARE APPROXIMATE AND SHOULD BE CONFIRMED ON SITE. CONTRACTOR TO REVIEW EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF WORK AND PROVIDE CONSULTANT ANY DISCREPANCIES BASED ON SITE CONDITIONS AS CONTRACTOR TO ISOLATE RENOVATION AREA TO CONTROL AND CONTAIN ALL DUST AND DEBRIS WITHIN CONSTRUCTION AREA DURING DEMOLITION PHASE



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QUASAR PROJECT No.: ED-22-405





	NOTE: CONTRACTOR TO ALLOW FOR THE REMOVAL OF ALL EXISTING CEILING DIFFUSERS AND RE-CONNECTION AFTER THE CEILING WORK HAS BEEN COMPLETED		
	TO REMAIN AS IS. CONTRACTOR TO BACK DUCTING CLEAN UNIT AT PROJECT COMPLETION.  NEW CEILING	ER TO BE REMOVED. CUT NG TO ACCOMMODATE G GRID. PREPARE FOR TION AT NEW WORK PHASE  1400x800 F/A DN TO BASEMENT cw (2) 700x800 FD AT ALL FLOOR PENETRATIONS  250 HWR DN  250 HWS FROM BELOW CW CV TER	25Ø HWR DN
	-4000 F/A	200 HWR DN  1400x600 F/A  CLASSROOM  307  337 m²  ATLOW LEVEL (000CFM)  RESOURCE  ROOM  306  44.1 m²  44.1 m²	DN UP RITO-CELLING SPACE  CLASSROOM  TRICM RCOF ABOVE  FROM RCOF ABOVE  BOATS TO SOLUTION FIA  FROM RCOF ABOVE  FROM RCOF ABOVE  BOATS TO SOLUTION FIA  BOATS TO SOLUTION FIA  BOATS TO SOLUTION FIA  FROM RCOF ABOVE  BOATS TO SOLUTION FIA  FROM RCOF ABOVE  BOATS TO SOLUTION FIA  BOATS TO SO
	EXIST, 600x600 R/A GRILLE AT LOW LEVEL (650CFM)  EXIST, 600x450 F/A UP FROM BASEMENT (825CFM)  EXIST, 600x600 R/A GRILLE AT LOW LEVEL (600CFM)  EXIST, 600x600 R/A GRILLE AT LOW LEVEL (600CFM)	850x450 E/A  140x600 E/A  1750x500 E/A	EXISTING THERMOSTAT TO BE REMOVED. (TYPICAL)  ON TO BELOW FINSH CELLING
EXISTING DUCTWORK TO REMAIN AS IS. CONTRACTOR TO CLEAN DUCTWORK WITHIN SCOPE OF WORK AT PROJECT COMPLETION. (TYPICAL)	CLUS SPROM  -4003 FIA  -4003 FIA  -4003 FIA  -4000 FIA  -4000 FIA  -4000 FIA  -4000 FIA  -4000 FIA	CLASSROOM   3.04	EXISTING RETURN AIR GRILLES TO BE REMOVED. CAP EXHAUST DUCT. (TYPICAL)  S80x190 EIA  S80x190 EIA
	25Ø HWS FROM BELOW 25Ø HWR DN 25Ø HWR DN 25Ø HWR DN 25Ø HWR DN 25Ø HWR FROM BELOW	EXISTING CEILING FAN TO BE REMOVED. CONTRACTOR TO TURN FANS OVER TO SCHOOL BOARD AFTER REMOVAL (TYPICAL)  EXISTING CEILING FAN TO BE REMOVED. CONTRACTOR TO TURN FANS OVER TO SCHOOL BOARD AFTER REMOVAL	PORTION OF EXISTING DUCTWORK TO BE REMOVED. CONTRACTOR TO CAP DUCTING AND PREPARE FOR RECONNECTION AT NEW WORK. (TYPICAL)

3 ISSUED FOR TENDER 2025-05-02 2 ISSUED FOR DD CLIENT REVIEW ISSUED FOR DD CLIENT REVIEW

ISSUE DATE:

PROJECT:

ST ANDREW'S SENIOR PUBLIC SCHOOL -AIR CONDITIONING UPGRADE

65 VICTORIA AVE. CAMBRIDGE, ON N1S 1X2

SHEET TITLE:

HVAC - DEMOLITION - LEVEL 2

**PROJECT NO**: 22988 SCALE: AS SHOWN **DRAWN BY:** 

SHEET NO:

REVIEWED BY: T.P. / I.I.

# VENTILATION GENERAL NOTES - NEW WORK 1. VENTILATION LAYOUTS AS SHOWN ON PLANS IS TO SHOW DESIGN INTENT INDICATE

GENERAL LOCATIONS OF EQUIPMENT AND CONNECTING SERVICES. CONTRACTOR SHALL COORDINATE ROUTING AND ALL NECESSARY FITTINGS TO ACCOMMODATE THE SITE CONDITIONS AND TO MEET THE DESIGN INTENT.

2. VISIT THE SITE TO VERIFY EXISTING CONDITIONS PRIOR TO SUBMITTING BID. THIS SHALL BE DONE IN ORDER TO CONFIRM THAT EQUIPMENT AND SERVICES CAN BE INSTALLED AS SHOWN ON DRAWINGS AND THAT ADDITIONAL COSTS ARE INCLUDED IN BID TO FACILITATE INSTALLATION. NOTIFY THE ENGINEERS OF ANY DISCREPANCIES, OMISSIONS, AND INTERFERENCES.

PROVIDE FOR ALL REQUIRED CUTTING AND PATCHING OF EXISTING CEILINGS AND WALLS TO FACILITATE THE INSTALLATION OF THE MECHANICAL SERVICES OUTLINED FOR THIS SCOPE OF WORK.
 ALL WORK TO BE DONE IN ACCORDANCE WITH THE ONTARIO BUILDING CODE AND ALL OTHER REGULATORY REQUIREMENTS

ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S WRITTEN GUIDELINES. PROVIDE ALL FITTINGS, OFFSETS AND TRANSITIONS AS REQUIRED FOR COMPLETE INSTALLATION.
 COORDINATE VENTILATION WORK WITH WORK OF OTHER TRADES PRIOR TO FABRICATION OR INSTALLATION. PROVIDE ALL FITTINGS, OFFSETS AND TRANSITIONS REQUIRED FOR COMPLETE WORKABLE INSTALLATION.
 PROVIDE BALANCING DAMPERS ARE BRANCH TAKE OFFS FOR EACH DIFFUSER
 PROVIDE ALL DUCT TRANSITIONS, FITTINGS TO SUIT INSTALLATION OF DUCTWORK, TAKE OFFS FOR DIFFUSERS AND GRILLES.

TAKE OFFS FOR DIFFUSERS AND GRILLES.

REFER TO ARCHITECTURAL DRAWINGS FOR FINAL LOCATION OF DIFFUSERS AND GRILLE LOCATIONS

PROVIDE ACCESS PANELS WHERE REQUIRED

LGA architect

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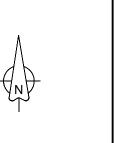
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		INSTALL NEW CUSTOM MADE WALL MOUNTED GRILLE AT LOW LEVEL. APPROX. SIZE 605x605. CONTRACTOR TO CONFIRM ON SITE. OWNER TO PROVIDE CUSTOM MADE GRILLE. (TYP. FOR 6)	INSTALL NEW EXHAUST AIR GRILLE ON VERTICAL FACE OF CABINET. MODIFY EXIST. DUCTING AND PROVIDE FOR NEW DUCT ELBOW AND BOOT TO ACCOMMODATE NEW GRILLE. COORDINATE EXACT LOCATION ON SITE. (TYP. OF 2)	
300x200 S/A  142 L/S (TYP. OF 2)  FCU-3	301 4000 F/A	A-200Ø-88 L/S (TYP. OF 4)  71 L/S  RESC RC RC RC 1400x600 F/A  1400x600 F/A  1400x600 F/A  2XIST. 600x600 R/A GRILLE AT LOW LEVEL (600CFM)  EXIST. 600x600 R/A GRILLE AT LOW LEVEL (600CFM)  CLASSROO  307 83.7 m² 83.7 m²	B-600x300  300x200 S/A  A-250Ø-117 L/S (TYP. OF 3)  142 L/S (TYP. OF 2)  O.E.D.  EXIST, DOD-400 F/A FROM ROOF ASOVE  142 L/S (TYP. OF 2)  RETY/CERT OF 2  A50x200 S/A  A-250Ø-117 L/S (TYP. OF 3)	
ACOUSTICALLY LINE SUPPLY AIR DUCT MIN. LENGTH: 1800 mm. (TYPICAL)  CONTRACTOR TO INSTALL NEW S/A DIFFUSER AND RE-CONNECT EXISTING	O.E.D.  x300 R/A  GO0x300 R/A	B-600x300  B-600x300  1400x600 F/A  1750x500 E/A	600x300 R/A  INSTALL NEW THERMOSTAT. (TYPICAL)  B-600x600  70 L/S  A-200Ø-71 L/S (TYP. OF 2)  B-600x600	B-600x300
SUPPLY DUCT AND REBALANCE AS REQUIRED. (TYPICAL)  EXISTING DUCTWORK TO REMAIN AS IS. CONTRACTOR TO CLEAN DUCTWORK WITHIN SCOPE OF WORK AT PROJECT COMPLETION. (TYPICAL)  142 L/S (TYP. OF 2)  CONTRACTOR TO INSTALL SUPPLY  A-250Ø-130 L/S	O.E.D.    ADDRIVE   ADDRIV	500x350 E/A 300x300 ROUM OFFILIS 500x300 TYP. OF 2 FCU-308 FCU-306	EXIST, 250x100 F/A  DN TO BELOW— FINISH CEILING  FEXIST, 250x125 WPE  A -250Ø-130 L/S  FCU-310	EXIST. 500x350 F/A TO DROP BEHIND REFRIGERATOR PROVIDE 100Ø TAXE-OFF AT CEILING LEVEL OF CUSTODIAN 311 & 450x350 F/A TO CONTINUE TO BELOW
CONTRACTOR TO INSTALL SUPPLY  DUCT BELOW EXISTING DUCT IN  CEILING SPACE. COORDINATE  EXACT LOCATION ON SITE.  A-250Ø-130 L/S  (TYP. OF 4)  450x200 S/A	DUCT BELOW EXISTING DUCT IN (TYP. OF 4) CEILING SPACE. COORDINATE	☐ 600x200 S 300x200 S	(TYP) OF 4)	

REQUIRED.

- NEW CEILING MOUNT HEAT

PUMP UNIT. (TYPICAL)

3 ISSUED FOR TENDER 2025-05-02
2 ISSUED FOR DD CLIENT REVIEW 2025-04-11
1 ISSUED FOR DD CLIENT REVIEW 2025-03-26

ISSUE DATE:

PROJECT:

ST ANDREW'S
SENIOR PUBLIC
SCHOOL AIR CONDITIONING
UPGRADE

65 VICTORIA AVE. CAMBRIDGE, ON N1S 1X2

SHEET TITLE:

HVAC - NEW WORK - LEVEL 2

M-352

PROJECT NO: 22988
SCALE: AS SHOWN
DRAWN BY:
REVIEWED BY: T.P. / I.I.

SHEET NO:

### HEATING & COOLING GENERAL NOTES - NEW WORK

CONTRACTOR SHALL COORDINATE ROUTING AND ALL NECESSARY FITTINGS TO ACCOMMODATE THE SITE CONDITIONS AND TO MEET THE DESIGN INTENT. VISIT THE SITE TO VERIFY EXISTING CONDITIONS PRIOR TO SUBMITTING BID. THIS SHALL BE DONE IN ORDER TO CONFIRM THAT EQUIPMENT AND SERVICES CAN BE INSTALLED AS SHOWN ON DRAWINGS AND THAT ADDITIONAL COSTS ARE INCLUDED IN BID TO FACILITATE INSTALLATION. NOTIFY THE ENGINEERS OF ANY DISCREPANCIES, OMISSIONS, AND INTERFERENCES. PROVIDE FOR ALL REQUIRED CUTTING AND PATCHING OF EXISTING CEILINGS AND

WALLS TO FACILITATE THE INSTALLATION OF THE SERVICES OUTLINED FOR THIS SCOPE ALL WORK TO BE DONE IN ACCORDANCE WITH THE ONTARIO BUILDING CODE AND ALL OTHER REGULATORY REQUIREMENTS

ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S WRITTEN GUIDELINES. PROVIDE ALL FITTINGS, OFFSETS AND TRANSITIONS AS REQUIRED FOR COMPLETE INSTALLATION. COORDINATE PIPING WORK WITH WORK OF OTHER TRADES PRIOR TO FABRICATION OR INSTALLATION. PROVIDE ALL FITTINGS, OFFSETS AND TRANSITIONS REQUIRED FOR COMPLETE WORKABLE INSTALLATION.

PROVIDE ISOLATION VALVES AT BRANCH TAKE OFFS SERVICING EACH MECHANICAL **EQUIPMENT** PROVIDE INSULATION AND PVC JACKETING FOR ALL NEW PIPING PER SPECIFICATIONS PROVIDE ACCESS PANELS WHERE REQUIRED



HEATING & COOLING LAYOUTS AS SHOWN ON PLANS IS TO SHOW DESIGN INTENT INDICATE GENERAL LOCATIONS OF EQUIPMENT AND CONNECTING SERVICES.

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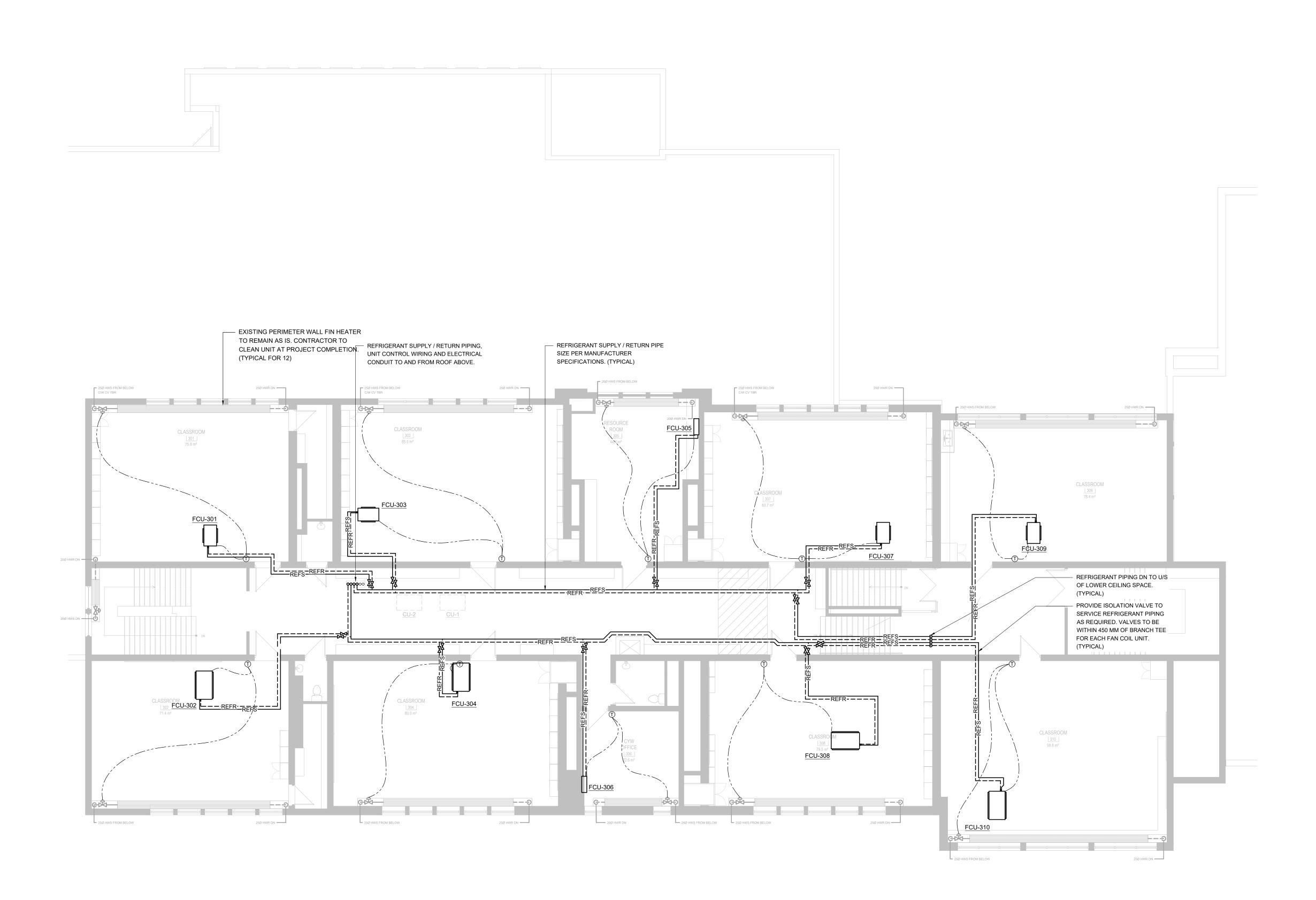


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ISSUED FOR TENDER ISSUED FOR DD CLIENT REVIEW ISSUED FOR DD CLIENT REVIEW

**ISSUE DATE:** 

PROJECT:

ST ANDREW'S SENIOR PUBLIC SCHOOL -AIR CONDITIONING UPGRADE

65 VICTORIA AVE. CAMBRIDGE, ON N1S 1X2

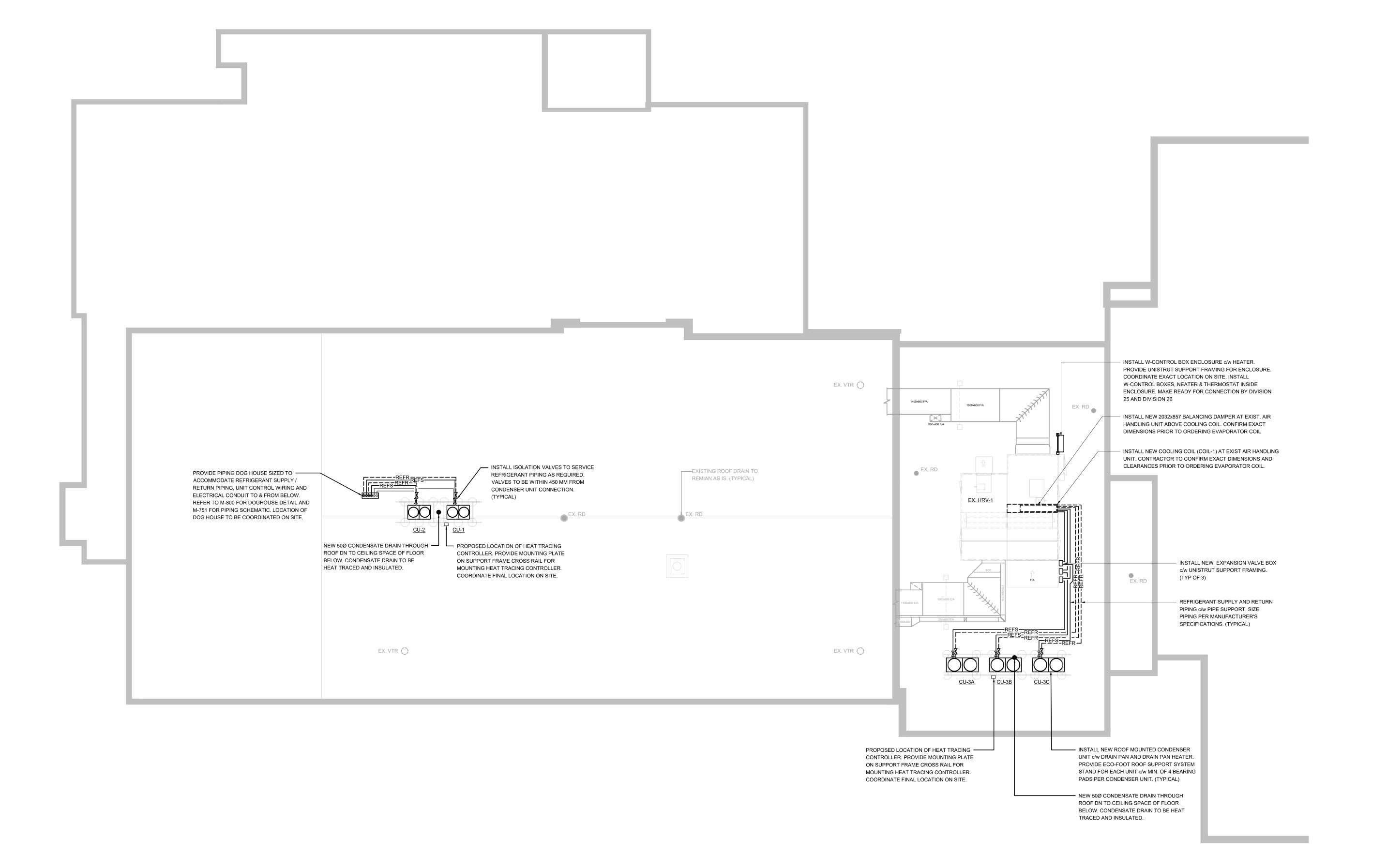
SHEET TITLE:

HVAC PIPING - NEW WORK -

**PROJECT NO**: 22988 SCALE: AS SHOWN DRAWN BY:

REVIEWED BY: T.P. / I.I.

SHEET NO:



MECHANICAL GENERAL NOTES - NEW WORK

MECHANICAL SERVICES LAYOUTS AS SHOWN ON PLANS IS TO SHOW DESIGN INTENT INDICATE GENERAL LOCATIONS OF EQUIPMENT AND CONNECTING SERVICES. CONTRACTOR SHALL COORDINATE ROUTING AND ALL NECESSARY FITTINGS TO ACCOMMODATE THE SITE CONDITIONS AND TO MEET THE DESIGN INTENT. VISIT THE SITE TO VERIFY EXISTING CONDITIONS PRIOR TO SUBMITTING BID. THIS SHALL BE DONE IN ORDER TO CONFIRM THAT EQUIPMENT AND SERVICES CAN BE INSTALLED AS SHOWN ON DRAWINGS AND THAT ADDITIONAL COSTS ARE INCLUDED IN BID TO FACILITATE INSTALLATION. NOTIFY THE ENGINEERS OF ANY DISCREPANCIES, OMISSIONS, AND INTERFERENCES.

CONTRACTOR TO CONFIRM ROOF WARRANTY WITH WRDSB AND COORDINATE, IN ADVANCE, ALL ROOFING WORK TO BE COMPLETED WITH WARRANTY HOLDER AND WRDSB APPROVED VENDOR ALL WORK TO BE DONE IN ACCORDANCE WITH THE ONTARIO BUILDING CODE AND ALL OTHER REGULATORY REQUIREMENTS

ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S WRITTEN GUIDELINES. PROVIDE ALL FITTINGS, OFFSETS AND TRANSITIONS AS REQUIRED FOR COMPLETE INSTALLATION. COORDINATE MECHANICAL SERVICES WORK WITH WORK OF OTHER TRADES PRIOR TO FABRICATION OR INSTALLATION. PROVIDE ALL EQUIPMENT, CONTROLS, ACCESSORIES, FITTINGS, OFFSETS AND TRANSITIONS REQUIRED FOR COMPLETE WORKABLE INSTALLATION.

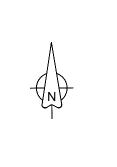
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QUASAR PROJECT No.: ED-22-405





3 ISSUED FOR TENDER 2025-05-02 ISSUED FOR DD CLIENT REVIEW ISSUED FOR DD CLIENT REVIEW

**ISSUE DATE:** 

PROJECT:

ST ANDREW'S SENIOR PUBLIC SCHOOL -AIR CONDITIONING UPGRADE

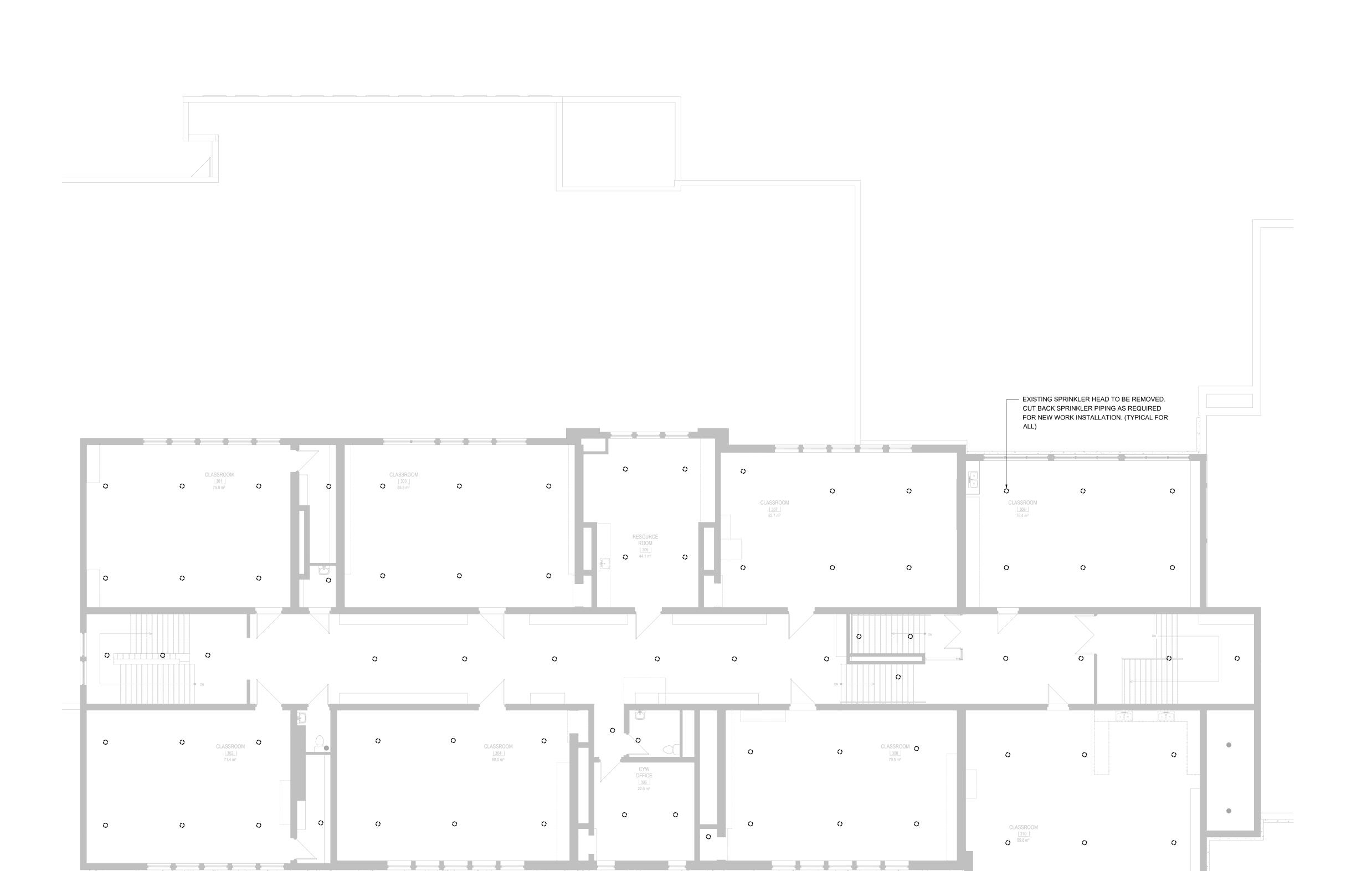
65 VICTORIA AVE. CAMBRIDGE, ON N1S 1X2

SHEET TITLE:

HVAC - DEMOLITION & NEW WORK - ROOF

**PROJECT NO**: 22988 SCALE: AS SHOWN DRAWN BY: REVIEWED BY: T.P. / I.I.

SHEET NO:



SPRINKLER GENERAL NOTES - DEMOLITION

THIS SPRINKLER DRAWING IS PREPARED TO GIVE THE CONTRACTOR THE DESIGN INTENT, THE SCOPE OF WORK AND TO ASSIST IN PRICING THE SPRINKLER WORK. THE SUCCESSFUL SPRINKLER CONTRACTOR SHALL OBTAIN COPIES OF CALCULATIONS AND ANY DRAWINGS REQUIRED FROM THE OWNER AND/OR THE ORIGINAL INSTALLING CONTRACTOR IN ORDER TO COMPLETE THIS DESIGN. THE CONTRACTOR SHALL INCLUDE FOR ALL NECESSARY REQUIREMENTS TO COMPLETE THE DESIGN IF THE ABOVE INFORMATION IS NOT AVAILABLE OR ACCEPTABLE.
 THE LOCATION OF ALL EXISTING SPRINKLER HEADS ARE APPROXIMATE AND SHOULD BE CONFIRMED ON SITE.
 CONTRACTOR TO REVIEW EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF WORK AND PROVIDE CONSULTANT ANY DISCREPANCIES BASED ON SITE CONDITIONS AS

AND PROVIDE CONSULTANT ANY DISCREPANCIES BASED ON SITE CONDITIONS AS NEEDED.

4. CONTRACTOR TO ISOLATE RENOVATION AREA TO CONTROL AND CONTAIN ALL DUST AND DEBRIS WITHIN CONSTRUCTION AREA DURING DEMOLITION PHASE

5. COORDINATE WITH OWNER FOR DRAIN TIME AND REFILL OF SPRINKLER SYSTEM



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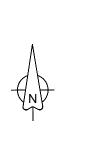
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QUASAR PROJECT No.: ED-22-405

PROFES





3 ISSUED FOR TENDER 2025-05-02
2 ISSUED FOR DD CLIENT REVIEW 2025-04-11
1 ISSUED FOR DD CLIENT REVIEW 2025-03-26

ISSUE DATE:

ST ANDREW'S
SENIOR PUBLIC
SCHOOL AIR CONDITIONING

65 VICTORIA AVE. CAMBRIDGE, ON N1S 1X2

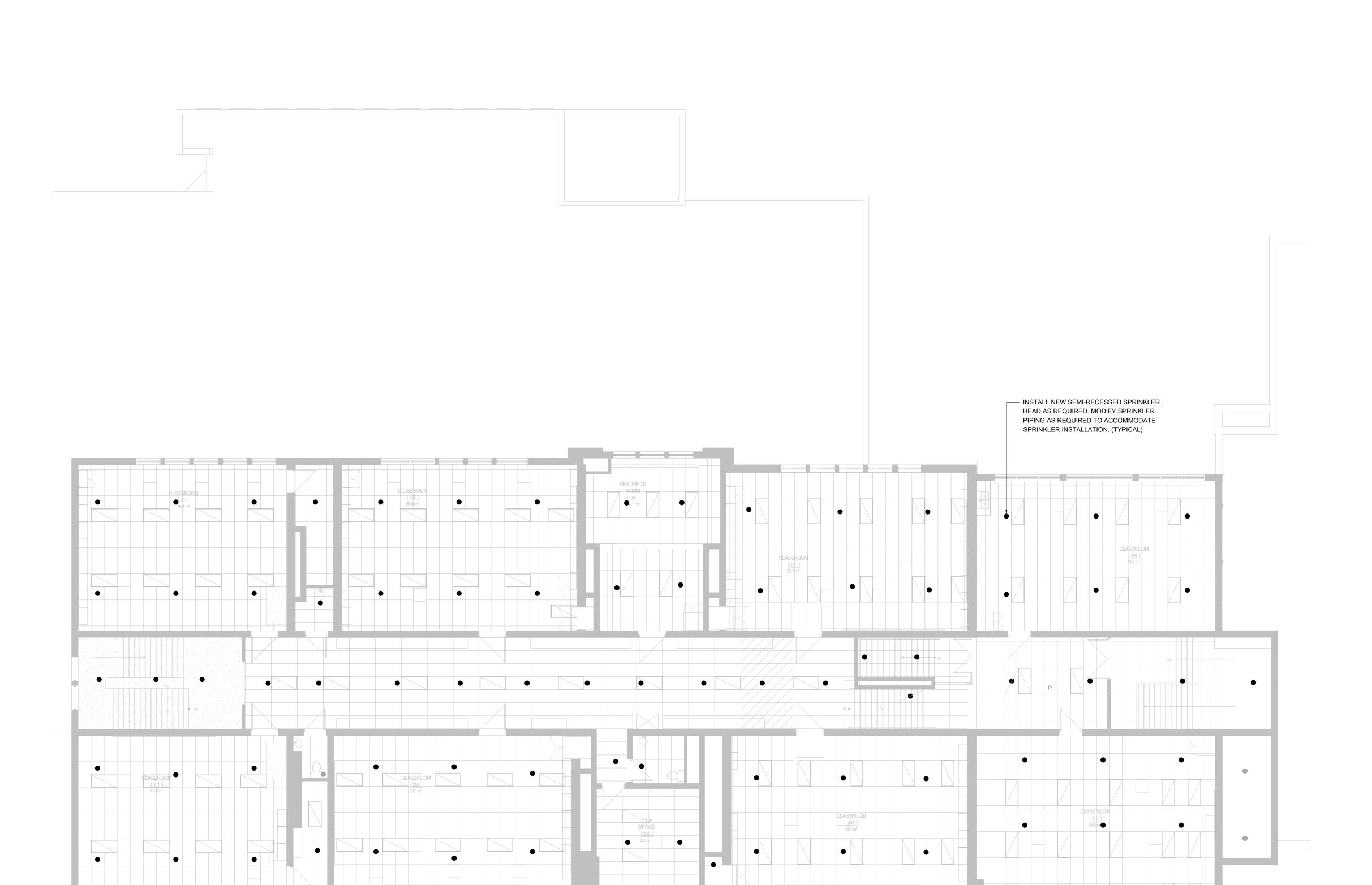
UPGRADE

SHEET TITLE:

FIRE PROTECTION - DEMOLITION - LEVEL 2

PROJECT NO: 22988
SCALE: AS SHOWN
DRAWN BY:
REVIEWED BY: T.P. / I.I.

SHEET NO: M-502



# FIRE PROTECTION GENERAL NOTES - NEW WORK

1. THE SPRINKLER DRAWING IS PREPARED TO GIVE THE CONTRACTOR THE DESIGN INTENT, THE SCOPE OF WORK AND TO ASSIST IN PRICING THE SPRINKLER WORK. THE SUCCESSFUL SPRINKLER CONTRACTOR SHALL PREPARE SHOP DRAWINGS AND HYDRAULIC CALCULATIONS AND SUBMIT TO THE CITY FIRE DEPARTMENT AND TO THE CONSULTANT FOR APPROVAL. CONTRACTOR SHALL OBTAIN COPIES OF CALCULATIONS AND ANY DRAWINGS REQUIRED FROM THE OWNER AND/OR THE ORIGINAL INSTALLING CONTRACTOR IN ORDER TO COMPLETE THIS DESIGN. THE CONTRACTOR SHALL INCLUDE FOR ALL NECESSARY REQUIREMENTS TO COMPLETE THE DESIGN IF THE ABOVE INFORMATION IS NOT AVAILABLE OR ACCEPTABLE.

VISIT THE SITE TO VERIFY EXISTING CONDITIONS PRIOR TO SUBMITTING BID. THIS SHALL BE DONE IN ORDER TO CONFIRM THAT EQUIPMENT AND SERVICES CAN BE INSTALLED AS SHOWN ON DRAWINGS AND THAT ADDITIONAL COSTS ARE INCLUDED IN BID TO FACILITATE INSTALLATION. NOTIFY THE ENGINEERS OF ANY DISCREPANCIES, OMISSIONS, AND INTERFERENCES.

PROVIDE FOR ALL REQUIRED CUTTING AND PATCHING OF EXISTING CEILINGS AND WALLS TO FACILITATE THE INSTALLATION OF THE SERVICES OUTLINED FOR THIS SCOPE OF WORK.

SPRINKLER CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS ON THE JOB AND REPORT DISCREPANCIES TO THE ENGINEER OR WONER BEFORE PROCEEDING WITH THE WORK.

ALL WORK TO BE DONE IN ACCORDANCE WITH THE ONTARIO BUILDING CODE AND ALL

OTHER REGULATORY REQUIREMENTS.

SYSTEM SHALL BE DESIGNED, INSTALLED, SUPPORTED, FLUSHED AND TESTED IN FULL ACCORDANCE WITH NFPA 13 STANDARDS, LOCAL BUILDING DEPARTMENT AND FIRE DEPARTMENT STANDARDS.

ALL COMPONENTS SHALL BE ULC LISTED AND APPROVED FOR IT'S SPECIFIC

APPLICATION.

ALL SPRINKLER HEADS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S WRITTEN GUIDELINES.

CONTRACTOR SHALL CO ORDINATE SPRINKLER HEAD LOCATIONS IN AREAS WITH

CONTRACTOR SHALL CO-ORDINATE SPRINKLER HEAD LOCATIONS IN AREAS WITH SUSPENDED CEILINGS WITH THE LOCATION OF LIGHTING, GRILLES, DIFFUSERS, AND SIMILAR ITEMS RECESSED IN OR SURFACE MOUNTED ON THE CEILING. IN AREAS WITH LAY-IN TILE, CENTRE THE SPRINKLER HEAD BOTH WAYS IN THE LAY-IN TILE.

COORDINATE SPRINKLER WORK WITH WORK OF OTHER TRADES PRIOR TO FABRICATION

OR INSTALLATION. PROVIDE ALL PIPE, FITTINGS, OFFSETS AND TRANSITIONS REQUIRED FOR COMPLETE WORKABLE INSTALLATION.

NO FLEXIBLE PIPE SHALL BE USED. IF CONTRACTOR PROCEEDS WITH USE OF FLEXIBLE PIPE, CONTRACTOR IS RESPONSIBLE FOR PROVIDING NEW HYDRAULIC CALCULATIONS EACH NEW ARM, DROP OR STRAIGHT RUN MORE THAN 2 FEET REQUIRES HANGERS.

SPRINKLER CONTRACTOR TO PROVIDE AN INSTALLATION COMPLIANCE LETTER.

COORDINATE WITH OWNER FOR DRAIN TIME AND REFILL OF SPRINKLER SYSTEM.

LGA

architectura partners

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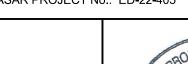
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1 ISSUED FOR DD CLIENT REVIEW 2025-03-26

ISSUE DATE:

ST ANDREW'S
SENIOR PUBLIC
SCHOOL AIR CONDITIONING

65 VICTORIA AVE. CAMBRIDGE, ON N1S 1X2

UPGRADE

SHEET TITLE:

FIRE PROTECTION - NEW WORK - LEVEL 2

PROJECT NO: 22988

SCALE: AS SHOWN

DRAWN BY:

REVIEWED BY: T.P. / I.I.

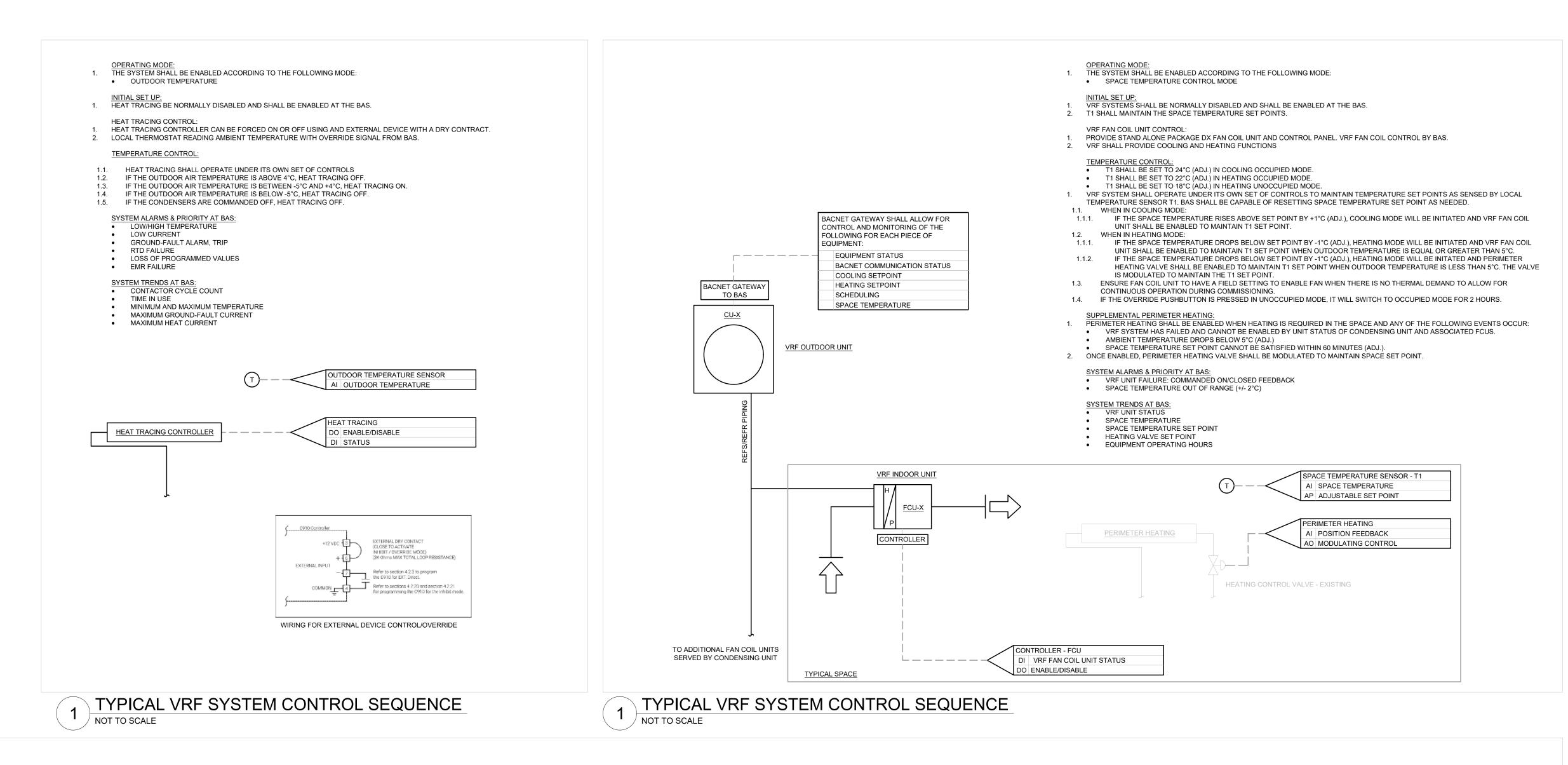
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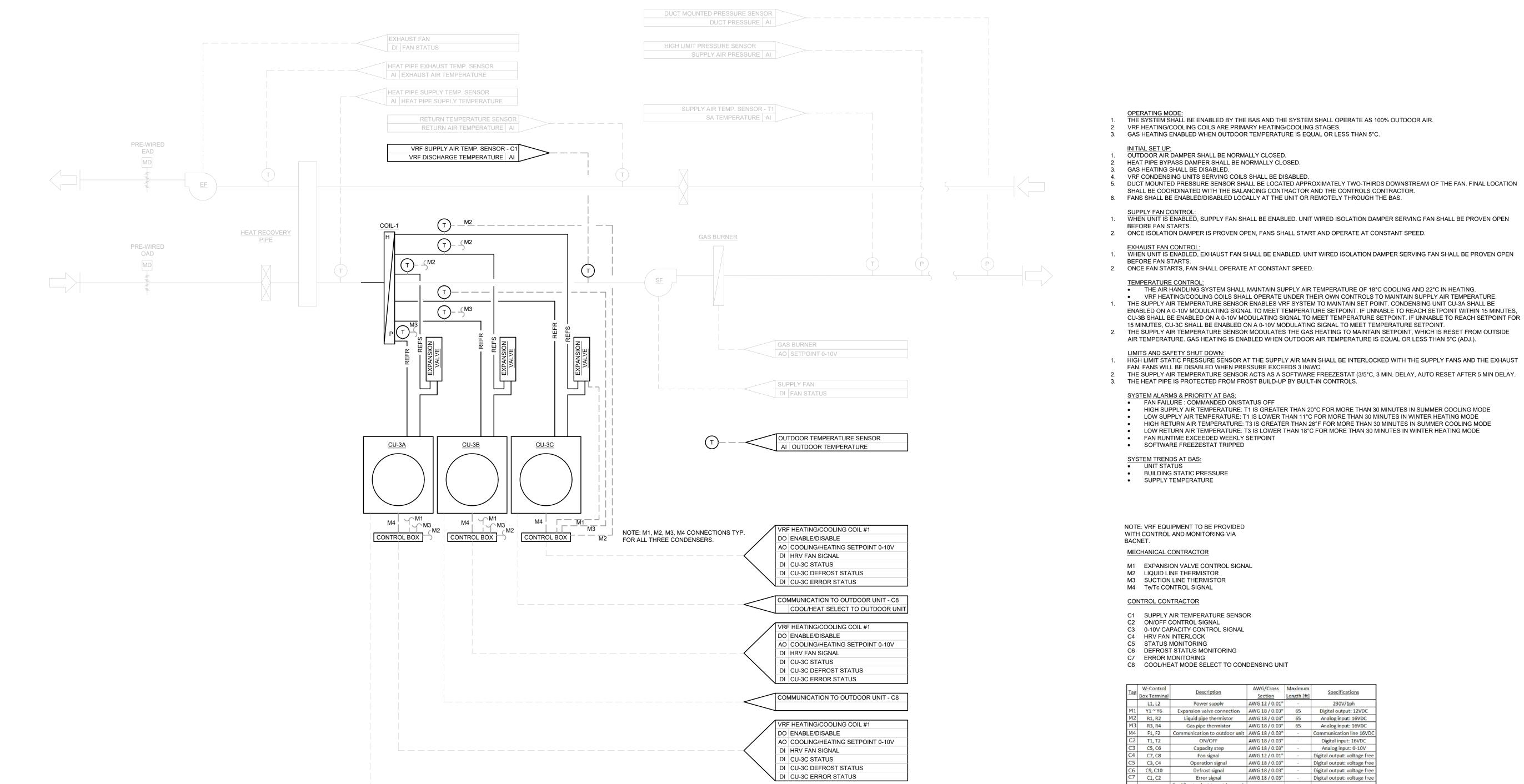
GENERAL CONTROLS NOTES:

1. ALL NEW BUILDING AUTOMATION SYSTEM TO BE PROVIDED BY ENERGY CONTROLS BUILDING AUTOMATION INC.

2. REFER TO FLOORPLANS FOR QUANTITIES OF ALL DEVICES REQUIRING CONTROL.

3. ALL SETPOINTS ARE TO BE ADJUSTABLE.





COMMUNICATION TO OUTDOOR UNIT - C8



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PROJECT:

ST ANDREW'S
SENIOR PUBLIC
SCHOOL AIR CONDITIONING
UPGRADE

65 VICTORIA AVE. CAMBRIDGE, ON N1S 1X2

SHEET TITLE:

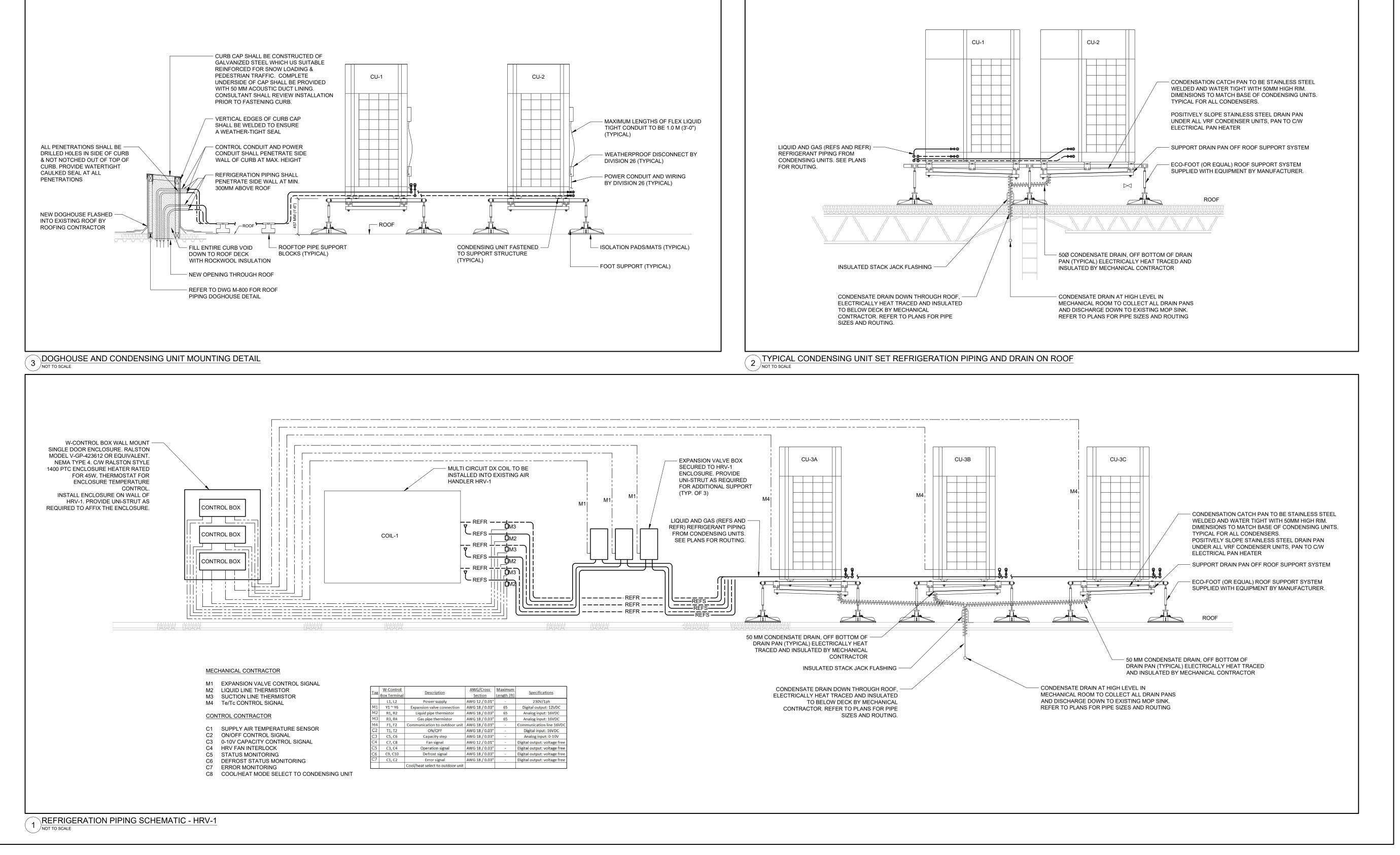
MECHANICAL CONTROL SCHEMATICS

PROJECT NO: 22988
SCALE: AS SHOWN
DRAWN BY:

REVIEWED BY: T.M.HI.I.

SHEET NO:

Cool/heat select to outdoor unit





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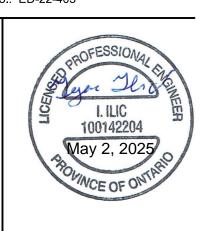
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ISSUE DATE:

ST ANDREW'S SENIOR PUBLIC SCHOOL -

AIR CONDITIONING UPGRADE

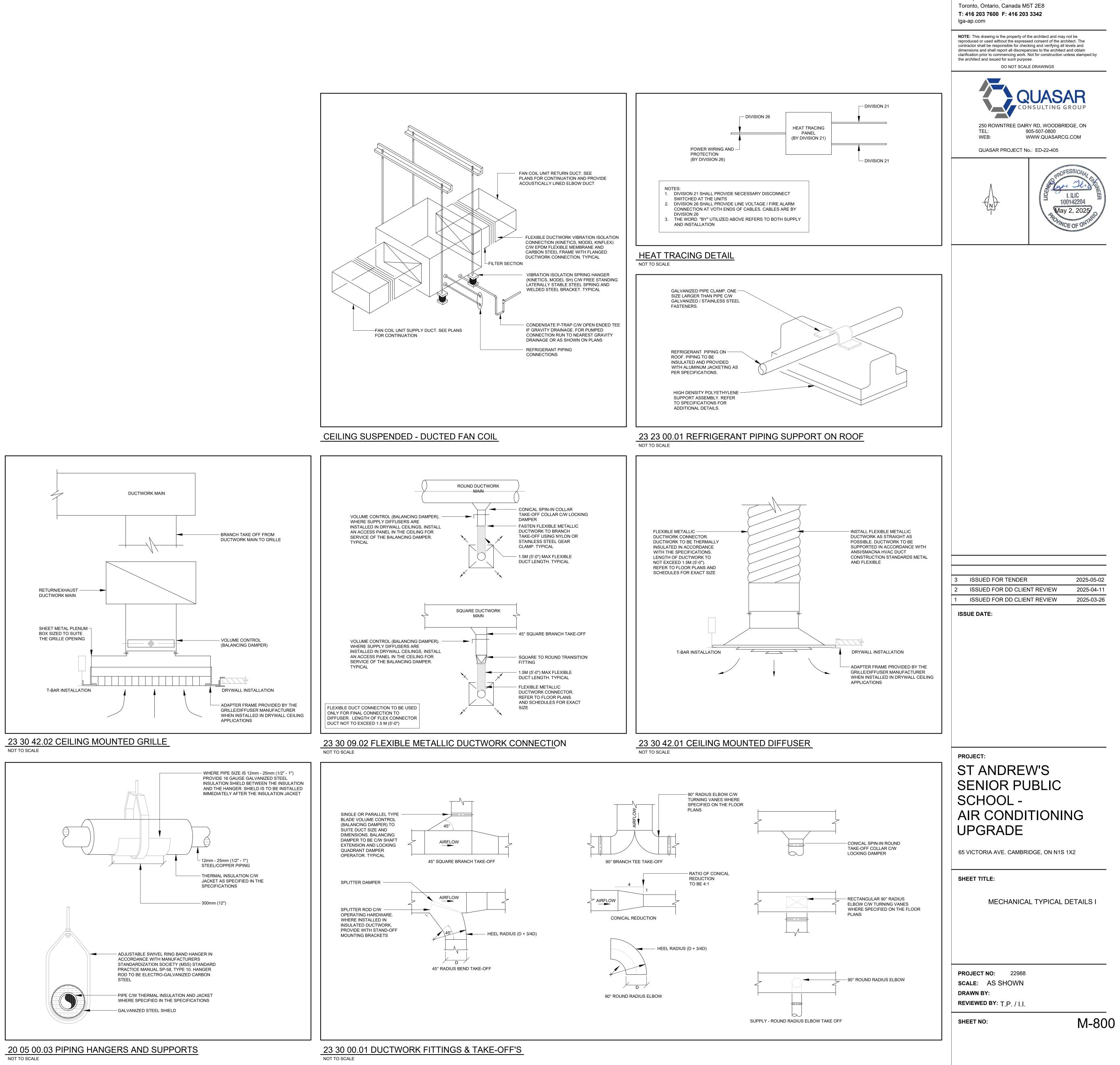
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SHEET TITLE:

MECHANICAL VRF SCHEMATICS AND DETAILS I

PROJECT NO: 22988
SCALE: AS SHOWN
DRAWN BY:
REVIEWED BY: T.M.H.I.

SHEET NO:



310 Spadina Ave, Suite 100B



2025-05-02 2025-04-11 2025-03-26

20 05 00.05 DETAIL OF ROOF PIPING DOGHOUSE

NON-HARDENING

FINISHED FLOOR -

PIPE SLEEVE WITH -

20 05 17.01 PIPE PENETRATIONS (MECH. RM. FLOORS)

ANCHOR RING

NOT TO SCALE

- FIRE-STOPPING

PIPE ESCUTCHEON PLATE

PREFINISHED METAL FLASHING

REMOVABLE CAP OF 1/2" PLYWOOD

WASHER, 2 UNITS ON EACH SIDE OF

REMOVABLE

SELF-ADHESIVE MEMBRANE

CAP, 8 IN TOTAL

SEALANT TO BE ONE

COMPONENT POLYURETHANE

1/8" LARGER THAN CABLE/PIPE

PENETRATE THE DOG HOUSE

OPENING TO BE MAXIMUM

PIPE INSULATION TO NOT

3" FIRE-RATED MINERAL

WOOL INSULATION

| 4"x4" FIBRE CANT STRIP

2-PLY MODIFIED BITUMEN FLASHINGS

WRAP VAPOUR RETARDER 6"

AROUND END OF INSULATION

<u> 19708083080808908</u>0

ADHERED WITH HOT ASPHALT

1/2" PLYWOOD WOOD BLOCKING, MECHANICALLY FASTENED

DRIP EDGE

SEALANT

	VARIABLE REFRIGERANT FLOW AIR COOLED CONDENSING UNITS																				
				REFRIGERANT	COOLING	HEATING	coc	COOLING H		MAX. SOUND ELECTRICAL		ELECTRICAL		ELECTRICAL		ELECTRICAL		ELECTRICAL		WEIGHT	
TAG	MANUFACTURER	MODEL	SERVICE	TYPE	TOT. CAPACITY (kW)	CAPACITY (kW)	EER	IEER	СОР	(dBA)	MCA (A)	MOCP (A)	V/PH/HZ	(KG)	REMARKS						
CU-1	DAIKIN	RXYQ120AATJB	FCU-301, FCU-302, FCU-305, FCU-307, FCU-309	R-410A	31.76	42.57	11.1	22.8	3.5	61	36.5	40	208-230/3/60	310	C/W SNOW/WIND HOOD KIT						
CU-2	DAIKIN	RXYQ144AATJB	FCU-302, FCU-304, FCU-306, FCU-308, FCU-310	R-410A	40.45	54.51	11.0	21.8	3.3	65	47.8	50	208-230/3/60	340	C/W SNOW/WIND HOOD KIT						
CU-3A	DAIKIN	RXYQ192AATJB	HRV-1 COIL	R-410A	56.08	66.10	11.3	21.5	3.5	67	59.8	60	208-230/3/60	410	C/W SNOW/WIND HOOD KIT, EKEXV500-US EXPANSION VALVE, EKEQFCBAV3-US W-CONTROL BOX						
CU-3B	DAIKIN	RXYQ192AATJB	HRV-1 COIL	R-410A	56.08	66.10	11.3	21.5	3.5	67	59.8	60	208-230/3/60	410	C/W SNOW/WIND HOOD KIT, EKEXV500-US EXPANSION VALVE, EKEQFCBAV3-US W-CONTROL BOX						
CU-3C	DAIKIN	RXYQ192AATJB	HRV-1 COIL	R-410A	56.08	66.10	11.3	21.5	3.5	67	59.8	60	208-230/3/60	410	C/W SNOW/WIND HOOD KIT, EKEXV500-US EXPANSION VALVE, EKEQFCBAV3-US W-CONTROL BOX						

AMBIENT DESIGN TEMPERATURE: COOLING DB: 35.0°C HEATING DB: 8.3°C

PROVIDE THE FOLLOWING ACCESSORIES AND FEATURES, IN ADDITION TO ITEMS NOTED IN REMARKS:
- CONDENSING UNITS TO BE ROOF MOUNTED ON 450MM MIN. HIGH EQUIPMENT STAND EQUAL TO ECOFOOT ECOFRAME.
- CONDENSING UNITS TO COME WITH SHUT OFF VALVES FOR ISOLATION

- CONDENSING UNITS TO COME WITH INVERTER SCROLL COMPRESSORS - AUTOMATIC RESTART AFTER A POWER FAILURE

- AUTO-CHARGING FEATURE (ENSURES PROPER REFRIGERANT CHARGE) - BACNET MS/TP COMMUNICATION - TWO YEAR WARRANTY

- SAFETIES: HIGH PRESSURE SENSOR AND SWITCH, LOW PRESSURE SENSOR, CONTROL CIRCUIT FUSES, CRANKCASE HEATERS, FUSIBLE PLUG, OVERLOAD PROTECTOR, THERMAL PROTECTORS FOR COMPRESSOR AND FAN MOTORS, OVER CURRENT PROTECTION FOR INVERTER AND ANTI-RECYCLING TIMERS. - STAINLESS STEEL DRIP PAN TO MATCH THE DIMENSION OF THE CONDENSING UNITS, AND HAVE A 50MM HIGH RIM

APPROVED EQUALS: MITSUBISHI, LG

SEE DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION

								VARIABLE	REFRIGERA	NT FLOW F	AN COIL UNIT	ΓS				
					DEEDLOEDANT	AIR I	FLOW	coc	DLING	HEATING	MAX. SOUND		ELECTRICAL		WEIGHT	
TAG	MANUFACTURER	MODEL	TYPE	SERVICE	REFRIGERANT TYPE	HIGH (L/s)	E.S.P. (Pa)	TOT. CAPACITY (kW)	SENS. CAPACITY (kW)	CAPACITY (kW)	(dBA)	MCA (A)	MOCP (A)	V/PH/HZ	(KG)	REMARKS
FCU-301	DAIKIN	FXSQ30TBVJU	CONCEALED DUCTED	CLASSROOM 301	R-410A	383	75	7.76	5.86	9.96	38	1.8	15	208-230/1/60	37	C/W VIBRATION ISOLATION, CONDENSATE PUMP, AIR FILTER AND CABINET KIT
FCU-302	DAIKIN	FXSQ36TBVJU	CONCEALED DUCTED	CLASSROOM 302	R-410A	533	75	9.29	6.66	11.72	39	2.5	15	208-230/1/60	46	C/W VIBRATION ISOLATION, CONDENSATE PUMP, AIR FILTER AND CABINET KIT
FCU-303	DAIKIN	FXSQ30TBVJU	CONCEALED DUCTED	CLASSROOM 303	R-410A	383	75	7.76	5.86	9.96	38	1.5	15	208-230/1/60	37	C/W VIBRATION ISOLATION, CONDENSATE PUMP, AIR FILTER AND CABINET KIT
FCU-304	DAIKIN	FXSQ36TBVJU	CONCEALED DUCTED	CLASSROOM 304	R-410A	533	75	9.29	6.66	11.72	39	2.5	15	208-230/1/60	46	C/W VIBRATION ISOLATION, CONDENSATE PUMP, AIR FILTER AND CABINET KIT
FCU-305	DAIKIN	FXAQ12PVJU	WALL MOUNT DUCTLESS	RESOURCE ROOM 305	R-410A	136	-	3.02	2.23	3.96	38	0.4	15	208-230/1/60	12	C/W CONDENSATE PUMP
FCU-306	DAIKIN	FXA18PVJU	WALL MOUNT DUCTLESS	OFFICE 306	R-410A	236	-	4.53	3.36	5.86	43	0.4	15	208-230/1/60	14	C/W CONDENSATE PUMP
FCU-307	DAIKIN	FXSQ30TBVJU	CONCEALED DUCTED	CLASSROOM 307	R-410A	383	75	7.76	5.86	9.96	38	1.8	15	208-230/1/60	37	C/W VIBRATION ISOLATION, CONDENSATE PUMP, AIR FILTER AND CABINET KIT
FCU-308	DAIKIN	FXSQ36TBVJU	CONCEALED DUCTED	CLASSROOM 308	R-410A	533	75	9.29	6.66	11.72	39	2.5	15	208-230/1/60	46	C/W VIBRATION ISOLATION, CONDENSATE PUMP, AIR FILTER AND CABINET KIT
FCU-309	DAIKIN	FXSQ30TBVJU	CONCEALED DUCTED	CLASSROOM 309	R-410A	383	75	7.76	5.86	9.96	38	1.8	15	208-230/1/60	37	C/W VIBRATION ISOLATION, CONDENSATE PUMP, AIR FILTER AND CABINET KIT
FCU-310	DAIKIN	FXSQ48TBVJU	CONCEALED DUCTED	CLASSROOM 310	R-410A	617	75	12.41	8.86	15.83	42	2.8	15	208-230/1/60	47	C/W VIBRATION ISOLATION, CONDENSATE PUMP, AIR FILTER AND CABINET KIT
ENTERING AIR TEMP COOLING DB/WB:																

COOLING DB/WB: 23.9°C/17.2°C HEATING DB: 21.1°C

PROVIDE THE FOLLOWING ACCESSORIES AND FEATURES, IN ADDITION TO ITEMS NOTED IN REMARKS: - GATEWAY CARD AIRZONE AZAI6WSPDKC FOR COMMUNICATION WITH BMS

APPROVED EQUALS: MITSUBISHI, LG

										HEAT	Γ PUMP COIL	-							
				DEEDICEDANT	SIZE				AIR FLOW	AIR P.D.		cod	OLING			HEATING		WEIGHT	
TAG	MANUFACTURER	MODEL	SERVICE	REFRIGERANT TYPE	(MM)	ROWS	FPI	CIRCUITS	(L/s)	(Pa)	TOT. CAPACITY (kW)	SENS. CAPACITY (kW)	ENT. AIR DB/WB (°C)	LVG. AIR DB/WB (°C)	CAPACITY (kW)	ENT. AIR DB (°C)	LVG. AIR DB (°C)	(KG)	REMARKS
COIL-1	DIRECT COIL	4DX-06-43.8-07-65.0-26	HRV-1	R-410A	2032 X 1048	6	7	26	3917	95	161.64	79.28	29.0/23.0	12.3/11.9	198.35	-5.0	36.8	172	COIL IS MADE UP OF THREE (3) CIRCUITS, EACH CIRCUIT CONNECTED TO ONE CONDENSING UNIT CU-3A, CU-3B, CU-3C
APPROVED EQUALS	S: MADOX, MODINE-HEAT	rcraft																	

TAG	MANUFACTURER	MODEL	TYPE	SIZE	FINISH	MAX NC	REMARKS
А	EH PRICE	SCD	SQUARE CONE DIFFUSER	REFER TO FLOOR PLANS	PER ARCH	30	REFER TO FLOOR PLANS F NECK SIZE
В	EH PRICE	80	EGG CRATE RETURN	REFER TO FLOOR PLANS	PER ARCH	<20	REFER TO FLOOR PLANS F NECK SIZE

	CONDENSIN	G-UNIT CONDE	ENSATE DRA	AIN AND DRIP	PAN HEAT-	TRACING SCHEDUL	-E	
SERVING	CABLE SEGMENT/APPLICATION	MANUFACTURER	MODEL	CABLE LENGTH (M)	ELECTRICAL (V/PH/HZ)	STARTUP CURRENT AT -18°C (A)	MOCP (A)	CONTROL REMARKS
CU-1 AND CU-2 EXTERNAL TRACING CD PIPE	HT-1A (EXTERNALLY TRACING CONDENSATE DRAIN PIPE)	NVENT RAYCHEM	5XLE1-CR	4.5	120/1/60	2.1		C910-485 AND LOCAL THERMOSTAT READING AMBIENT
CU-1 DRAIN PAN	HT-1B (LAID IN CHANNEL IN CU-1 PAN)	NVENT RAYCHEM	GM-1XT	9.1	120/1/60	4.5	15	TEMPERATURE, WITH OVERRIDE SIGNAL FROM BAS:  HEAT-TRACING OFF ABOVE 4°C  HEAT-TRACING ON BELOW 4°C
CU-2 DRAIN PAN	HT-1C (LAID IN CHANNEL IN CU-2 PAN)	NVENT RAYCHEM	GM-1XT	9.1	120/1/60	4.5		HEAT-TRACING OFF WHILE CONDENSERS ARE OFF, BELOW -5°C
CU-3A, CU-3B, AND CU-3C EXTERNAL TRACING CD PIPE	HT-2A (EXTERNALLY TRACING CONDENSATE DRAIN PIPE)	NVENT RAYCHEM	5XLE1-CR	6.0	120/1/60	2.1		
CU-3A DRAIN PAN	HT-2B (LAID IN CHANNEL IN CU-3A PAN)	NVENT RAYCHEM	GM-1XT	9.1	120/1/60	4.5	20	C910-485 AND LOCAL THERMOSTAT READING AMBIENT TEMPERATURE, WITH OVERRIDE SIGNAL FROM BAS: HEAT-TRACING OFF ABOVE 4°C
CU-3B DRAIN PAN	HT-2C (LAID IN CHANNEL IN CU-3B PAN)	NVENT RAYCHEM	GM-1XT	9.1	120/1/60	4.5	20	HEAT-TRACING OF ABOVE 4°C HEAT-TRACING ON BELOW 4°C HEAT-TRACING OFF WHILE CONDENSERS ARE OFF, BELOW -5°C
CU-3C DRAIN PAN	HT-2D (LAID IN CHANNEL IN CU-3C PAN)	NVENT RAYCHEM	GM-1XT	9.1	120/1/60	4.5		

1. SUPPLY AND INSTALL A COMPLETE DRAIN-PAN DE-ICING AND CONDENSATE DRAIN PIPE HEAT-TRACING SYSTEM COMPRISED OF CSA CERTIFIED AND/OR ULC LISTED HEATING CABLES, TERMINATIONS, FASTENING ACCESSORIES, AND TEMPERATURE CONTROLS. SCHEDULED COMPONENTRY ABOVE REPRESENTS EQUIPMENT SUITABLE FOR EACH SET OF CONDENSING UNITS. 2. HEATING CABLE SHALL BE SELF-REGULATING TYPE, SELECTED FOR APPLICATION REQUIREMENTS AS FOLLOWS:

A) CABLE FOR PIPE FREEZE PROTECTION SHALL BE XL-TRACE TYPE, IEEE 515 NOMINAL 5W/FT AT 120V, WITH POLYOLEFIN OUTER JACKET, BANDED TO PIPE WITH GLASS FIBER TAPE TYPE GT-66.

B) CABLE FOR DRAIN PAN SHALL BE ICESTOP TYPE, IEEE 515 NOMINAL 12 W/FT IN ICE AND SNOW, WITH FLUOROPOLYMER OUTER JACKET, INSERTED INTO ALUMINUM HEAT-SINK CHANNEL (TYPE CCB-AL) ADHERED TO THE BASE OF THE PAN IN STRAIGHT LINES ON 150MM CENTRES WITH DRIP-LOOP OVER THE DRAIN PIPE ENTRY.

3. TERMINATIONS SHALL BE RATED NEMA 4X, RE-ENTERABLE FOR SERVICE AND SHALL NOT REQUIRE THE USE OF HEAT-SHRINK MATERIALS. COORDINATE PIPE-MOUNTING OR SURFACE-MOUNTING OR SURFACE-MOUNTING BRACKETS AS APPLICABLE. BASIS OF DESIGN IS RAYCLIC SERIES.

4. TEMPERATURE CONTROLLER SHALL HAVE NEMA 4X ENCLOSURE, 30A SWITCHING CAPACITY, 30 MA INTEGRAL GROUND-FAULT PROTECTION, ALARM CONTACT FOR REMOTE FOURT TERMINALS TO RECEIVE SIGNAL FROM BAS TO ACHIEVE THE CONTROL SEQUENCE AS NOTED IN THE SCHEDULE, AND 3-WIRE INPUT FOR RTD TEMPERATURE SENSOR TO BE

MOUNTED READING AMBIENT TEMPERATURE IN THE SHADE AND AWAY FROM ARTIFICIAL HEAT SOURCES. BASIS OF SELECTION IS C910-485 WITH RTD-200. PROVIDE WITH PROTONODE FOR BACNET PROTOCOL GATEWAY INTEGRATION. 5. COORDINATE FULL SYSTEM COMPONENT REQUIREMENTS WITH THE MANUFACTURER'S REPRESENTATIVES BASED ON SITE CONFIRMATION PRIOR TO ORDERING. 6. RETAIN THE SERVICES OF THE MANUFACTURER FOR INSPECTION, TESTING, COMMISSIONING AND FINAL STARTUP. PROVIDE TECHNICIAN'S REPORT WITH CLOSEOUT DOCUMENTATION. PEEER TO SPECIFICATIONS AND DETAILS FOR MORE INFORMATION

8. BASIS OF DESIGN IS NVENT/RAYCHEM. ALTERNATES OF EQUIVALENT PERFORMANCE AND SYSTEM ASSEMBLY ARE ACCEPTABLE SUBJECT TO APPROVAL.

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ISSUED FOR TENDER ISSUED FOR DD CLIENT REVIEW ISSUED FOR DD CLIENT REVIEW

**ISSUE DATE:** 

PROJECT:

ST ANDREW'S SENIOR PUBLIC SCHOOL -AIR CONDITIONING UPGRADE

65 VICTORIA AVE. CAMBRIDGE, ON N1S 1X2

SHEET TITLE:

MECHANICAL SCHEDULES I

**PROJECT NO**: 22988 SCALE: AS SHOWN DRAWN BY: REVIEWED BY: T.P. / I.I.

SHEET NO:

	ELECTRICAL LEGEND		ELECTRICAL LEGEND
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	LINETYPES  NEW WORK		DISCONNECT SWITCH
	WORK TO BE DEMOLISHED, OR REMOVED		FUSED DISCONNECT SWITCH POWER RECEPTACLES AND BOXES
	EXISTING MATERIAL/EQUIPMENT/SERVICES TO REMAIN	<b>+</b>	120V U-GROUND DUPLEX RECEPTACLE.
	ABBREVIATIONS		120V U-GROUND DUPLEX RECEPTACLE - CONTROLLED (ASHRAE 90.1-2010, 8.4.2).
E D	EXISTING TO REMAIN  EXISTING TO BE DEMOLISHED/REMOVED	<b>+</b>	120V U-GROUND QUAD RECEPTACLE.
R	EXISTING TO BE RELOCATED/IN RELOCATED POSITION	$\Theta$	SPECIAL RECEPTACLE. VERIFY OUTLET REQUIREMENTS PRIOR ROUGH-IN.
ER	EXISTING TO BE REMAIN AND REPLACED WITH NEW	<b>+</b>	120V U-GROUND DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER TOP OR AS INSTRUCTED ON SITE.
RR RL	REMOVE AND REINSTALL IN SAME POSITION  REMOVE AND RELOCATE	<u> </u>	LIGHTING FIXTURES
С	CEILING MOUNTED CONNECTION		CORDANCE WITH IES DG-3-00 WHERE NOT DETAILED OTHERWISE HEF TING FIXTURE SCHEDULE FOR FURTHER DETAILS AND EXACT FIXTURE DECLINATION OF THE PROPERTY OF THE PR
W	WALL MOUNTED CONNECTION		REQUIREMENTS.  SURFACE MOUNTED LINEAR LUMINAIRE
F E	FLOOR MOUNTED CONNECTION  CENTRE LINE		RECESSED MOUNTED LUMINAIRE
AFF	ABOVE FINISHED FLOOR	<u> </u>	RECESSED DOWNLIGHT
AFG	ABOVE FINISHED GRADE		DENOTES ZONING/CIRCUTING ASSIGNMENTS FOR LUMINAIRES
O/C U/C	OVER COUNTER UNDER CABINET	Z1, Z2, ETC.	AND CONTROLS IN THE SAME SPACE.  EMERGENCY LIGHTING
U/F	UNDER RAISED FLOOR	REFER TO	EMERGENCY LIGHTING FIXTURE SCHEDULE FOR EXACT FIXTURE REQUIREMENTS.
CCT	CIRCUIT  CONNECT TO EXISTING		CEILING OR WALL MOUNTED ILLUMINATED EXIT SIGN. SHADED AREA INDICATES ILLUMINATED FACE. PROVIDE DIRECTIONAL
AFCI	ARC FAULT CIRCUIT INTERRUPTER		ARROWS AS INDICATED ON PLANS.
GFCI	GROUND FAULT INTERPLIPTER		EMERGENCY LIGHTING BATTERY UNIT.  ONE AND TWO HEAD WALL MOUNTED EMERGENCY LIGHTING
GFI IG	GROUND FAULT INTERRUPTER ISOLATED GROUND	EM	REMOTE UNITS.  DENOTES 'EMERGENCY"
TL	TWIST LOCK	EIVI	COMMUNICATIONS
TR	TAMPER RESISTANT	4	WALL MOUNTED DATA (D) OR VOICE (V) OUTLET. PROVIDE 1V AN UNLESS NOTED OTHERWISE.
WG	WIRE GUARD WEATHER PROOF	4	WALL MOUNTED VOICE (TELEPHONE) OUTLET. PROVIDE 1V UNLE
R/I	ROUGH-IN ONLY		NOTED OTHERWISE.  WALL MOUNTED DATA OUTLET. PROVIDE 1D UNLESS NOTED
NIC	NOT IN CONTRACT	4	OTHERWISE.
SIM. TYP.	SIMILAR TO TYPICAL	WAP	WIRELESS ACCESS POINT (WIFI)  PUBLIC ADDRESS SPEAKER, CEILING AND WALL MOUNTED,
	ABBREVIATIONS - CODES AND STANDARDS	PA	RESPECTIVELY.
OBC	ONTARIO BUILDING CODE	CR	ACCESS CONTROL  CARD READER
OESC	ONTARIO ELECTRICAL SAFETY CODE  ANNOTATIONS	DC	DOOR CONTACT
	ROOM NUMBER	ES	ELECTRIC STRIKE
CL	CLOSET	•	MUSHROOM HEAD PUSH BUTTON FOR MAGLOCK RELEASE, OR OTHER PUSH BUTTON AS INDICATED
WR	WASHROOM FIRE PROTECTION	•	BARRIER FREE DOOR OPERATOR PUSH BUTTON
	FIRE EXTINGUISHER		INTRUSION DETECTION
SPK	SPRINKLER HEAD		GLASS BREAK (GB)
FHC	STANDPIPE FIRE HOSE CABINET  HVAC	MD	MOTION DETECTOR (MD)
T	THERMOSTAT OR TEMPERATURE SENSOR	KP	KEYPAD (KP)
BBH	ELECTRIC BASEBOARD HEATER (BBH)		SOUNDER
FFH ERV	FORCED FLOW HEATER ENERGY RECOVERY VENTILATOR	FACP	FIRE DETECTION AND ALARM  FIRE ALARM CONTROL PANEL
HRU	HEAT RECOVERY UNIT	FAAP	FIRE ALARM ANNUNICIATOR PANEL
MUA	MAKE-UP AIR UNIT	FAPG	FIRE ALARM PASSIVE GRAPHIC
	CONDUIT AND BOXES  CONDUIT WITH END BUSHING	FAZ FSZ	FIRE ALARM ZONE FIRE ALARM SUPERVISORY ZONE
	CONDUIT UP	EOL	END OF LINE DEVICE
	CONDUIT DOWN	WG	WIRE GUARD
JB	JUNCTION BOX		MANUAL PULL STATION (MPS)
РВ	PULL BOX	CG	WHERE NOTED ADJACENT TO MANUAL PULL STATIONS, DENOTI PULL STATION C/W LEXAN COVER.
DW	CONNECTIONS TO EQUIPMENT  DISHWASHER		FIRE ALARM HORN
DW FR	DISHWASHER FRIDGE		FIRE ALARM HORN/STROBE, WALL MOUNTED.
MW	MICROWAVE		FIRE ALARM WALL MOUNTED STROBE LIGHT
HD	HAND DRYER. ALLOW UP TO 208V-1PH-20A	<b>⊕</b>	PHOTOELECTRIC SMOKE DETECTOR  ADJACENT TO SMOKE DETECTOR, INDICATES C/W AUXILIARY
PSC	PLUMBING SENSOR CONTROL (TOUCHLESS FAUCETS)		RELAY
PTP	PLUMBING TRAP PRIMER	SA	WHEN ADJACENT TO PHOTOELECTRIC SMOKE DETECTOR, INDICATES RESIDENTIAL SMOKE ALARM
<b>\times</b>	1-PHASE DIRECT CONNECTION OUTLET AS NOTED.		DUCT MOUNTED SMOKE DETECTOR
<b>(a)</b>	3-PHASE DIRECT CONNECTION OUTLET AS NOTED.	EOL	END OF LINE (EOL) DEVICE ON ZONE INITIATION OR SIGNAL CIRCUITS
W	ADJACENT TO 3-PHASE DIRECT CONNECTION, DENOTES WALL SYSTEM FURNITURE FEED FOR POWER AND COMMUNICATIONS.	IM	ISOLATOR MODULE
<u></u>			HEAT DETECTOR - FIXED TEMPERATURE
9	SINGLE PHASE MOTOR, HP (KW) AS NOTED.  THREE PHASE MOTOR, HP (KW) AS NOTED.	НО	MAGNETIC DOOR HOLDER AND RELEASING DEVICE ("HOLD OPE
<u> </u>	CLOCK.	FS	FLOW SWITCH
	LIGHTING CONTROLS	PS SV	PRESSURE SWITCH SUPERVISED VALVE
FER TO SPECIF	CICATIONS AND RESPECTIVE SCHEDULES FOR EXACT REQUIREMENTS		SINGLE LINE DIAGRAM
\$	SWITCH OR OTHER USER INTERFACE DEVICE AS DESCRIBED ON LIGHTING CONTROLS SCHEDULE.	0 0	CIRCUIT BREAKER
DIM	ADJACENT TO SWITCH, DENOTES DIMMING SWITCH.		DISCONNECT (UNFUSED)  FUSE
M K	ADJACENT TO SWITCH, DENOTES DIMMING SWITCH.  ADJACENT TO SWITCH, DENOTES KEY SWITCH.		METER
	ADJACENT TO SWITCH, DENOTES KEY SWITCH.  ADJACENT TO SWITCH, DENOTES MASTER CONTROL FOR ALL		
М	LUMINAIRES IN A ROOM OR SPACE, OR AS NOTED.	3  8	TRANSFORMER
חום	WALL MOUNTED SWITCH/OCCUPANCY SENSOR. PIR DENOTES	С	CONTACTOR
₽IR	'PASSIVE INFRARED', DT DENOTES 'DUAL PASSIVE INFRARED/ULTRASONIC'. LINE VOLTAGE TO SUIT CONTROLLED	DP PP	DISTRIBUTION PANELBOARD  POWER PANELBOARD
חם	CIRCUIT.	SPD	SURGE PROTECTIVE DEVICE
PP T	POWER PACK TIMER SWITCH.	SWBD	SWITCHBOARD
_	CEILING MOUNTED OCCUPANCY SENSOR. PIR DENOTES 'PASSIVE	TX	TRANSFORMER  DETAIL REFERENCES
(DT)	INFRARED', UT DENOTES 'ULTRASONIC' (OR MICROPHONIC), DT DENOTES 'DUAL TECHNOLOGY'.		
HDT	WALL MOUNTED OCCUPANCY SENSOR.	(1)	SHEET KEYNOTE
	DISTRIBUTION EQUIPMENT		REVISION NUMBER
	SURFACE MOUNTED LIGHTING AND RECEPTACLE PANELBOARD	/ \	

		Sheet List Table
	Sheet Number	Sheet Title
	E-001	ELECTRICAL LEGEND & SHEET LIST
	E-101	SECOND FLOOR DEMOLTIION & NEW WORK PLANS - LIGHTING
	E-201	BASEMENT FLOOR NEW WORK PLAN - POWER & SYSTEMS
	E-202	FIRST FLOOR NEW WORK PLAN - POWER & SYSTEMS
D /ACHDAE	E-203	SECOND FLOOR DEMOLITION & NEW WORK PLANS - POWER & SYSTEMS
O (ASHRAE	E-204	ROOF NEW WORK PLAN - POWER & SYSTEMS
	E-301	ELECTRICAL SCHEDULES & DETAIL SHEET No.1
TS PRIOR TO	E-302	ELECTRICAL DETAIL SHEET No. 2

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SHEET LIST		
WORK PLANS - LIGHTING		
AN - POWER & SYSTEMS		
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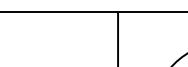


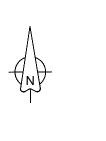
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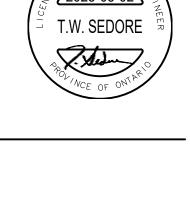
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2025-05-02 ISSUED FOR TENDER 2025-04-11 ISSUED FOR DD CLIENT REVIEW ISSUED FOR DD CLIENT REVIEW

ISSUE DATE:

PROJECT: ST ANDREW'S SENIOR PUBLIC SCHOOL -AIR CONDITIONING UPGRADE

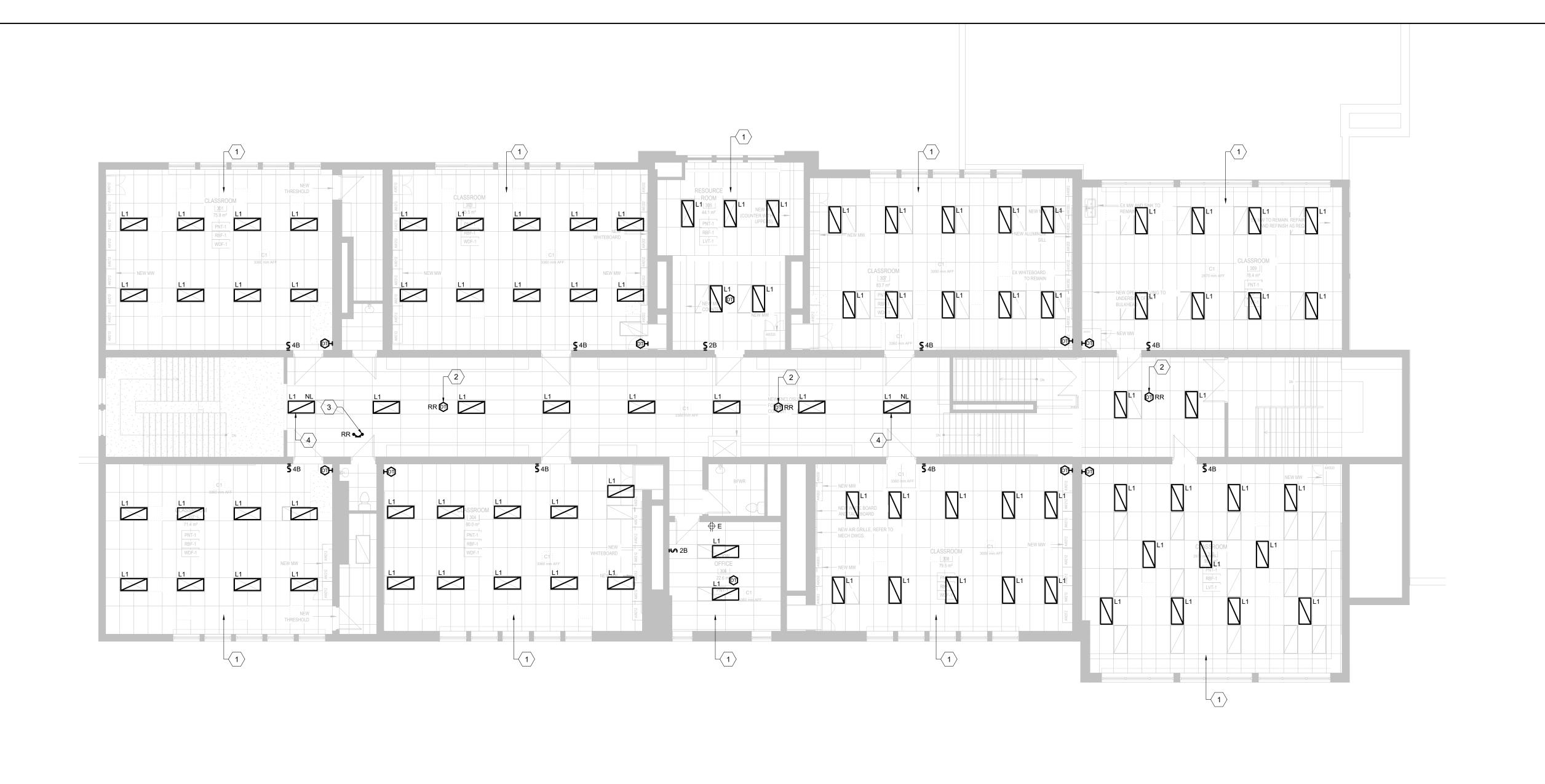
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ELECTRICAL LEGEND & SHEET LIST

NOT TO SCALE DRAWN BY: CW REVIEWED BY: BD/TWS

SHEET NO:

E-001



### PROJECT GENERAL NOTES

LOCATION OF DEVICES AND LUMINAIRES ARE NOTED FOR DIAGRAMMATIC PURPOSES,
CONTRACTOR SHALL BE RESPONSIBLE TO REVIEW ARCHITECTURAL ELEVATIONS AND REFLECTED
CEILING PLANS AND SITE CONDITIONS FOR EXACT DEVICE AND LUMINAIRE PLACEMENT.
 NEW DEVICES SHOWN ON EXISTING WALL CONSTRUCTION SHALL BE INSTALLED SURFACE
MOUNTED ON FS TYPE BACK BOXES WITH SURFACE RACEWAY (LEGRAND WIREMOLD 400 SERIES OR
EQUIVALENT - WHITE), FROM DEVICE UP TO CEILING SPACE. CONDUIT SHALL BE PROVIDED ABOVE
CEILING SPACE IN ALL LOCATIONS. COORDINATE INSTALLATION WITH GENERAL CONTRACTOR AND
CURRENT HAZARDOUS MATERIALS SURVEY.

3. FOR NEW BRANCH CIRCUITS NOTED ON THE FLOOR PLANS, PROVIDE A NEW 15A-1P BREAKER WITHIN EXISTING PANEL INDICATED AND EXTEND NEW FEEDERS TO EXISTING PANEL AND CONNECT

### NEW WORK KEY NOTES:

- CONNECT NEW LUMINAIRES AND NEW LIGHTING CONTROLS WITHIN THIS SPACE INTO EXISTING LIGHTING BRANCH CIRCUIT AS REQUIRED TO ACCOMMODATE NEW LUMINAIRES AND LIGHTING CONTROLS.
- RE-INSTALL AND RECONNECT EXISTING CEILING MOUNTED OCCUPANCY SENSOR WITHIN NEW CEILING.

  RE-INSTALL AND RECONNECT EXISTING CEILING MOUNTED EMERGENCY LIGHTING UNIT WITHIN
- 3 NEW CEILING.

  REWIRE EXISTING LUMINAIRE TO A NEW "NIGHT-LIGHT" CIRCUIT. PROVIDE A NEW 15A-1P BREAKER WITHIN EXISTING PANEL 'LP-G' WITHIN CORRIDOR AND EXTEND 2#12 + GROUND IN 21mm CONDUIT FROM BREAKER TO LUMINAIRE LOCATION AND CONNECT COMPLETE. BE RESPONSIBLE TO MODIFY EXISTING CORRIDOR LIGHTING CIRCUIT TO REMOVE LUMINAIRE FROM EXISTING CIRCUIT AND MAINTAINING THE DOWNSTREAM CONTINUITY OF OTHER LUMINAIRES CONNECTED TO THE SAME BRANCH CIRCUIT. SECOND "NIGHT LIGHT" LUMINAIRE WITHIN THIS CORRIDOR TO BE CONNECTED TO THIS SAME NEW CIRCUIT.



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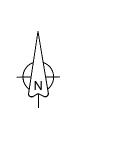
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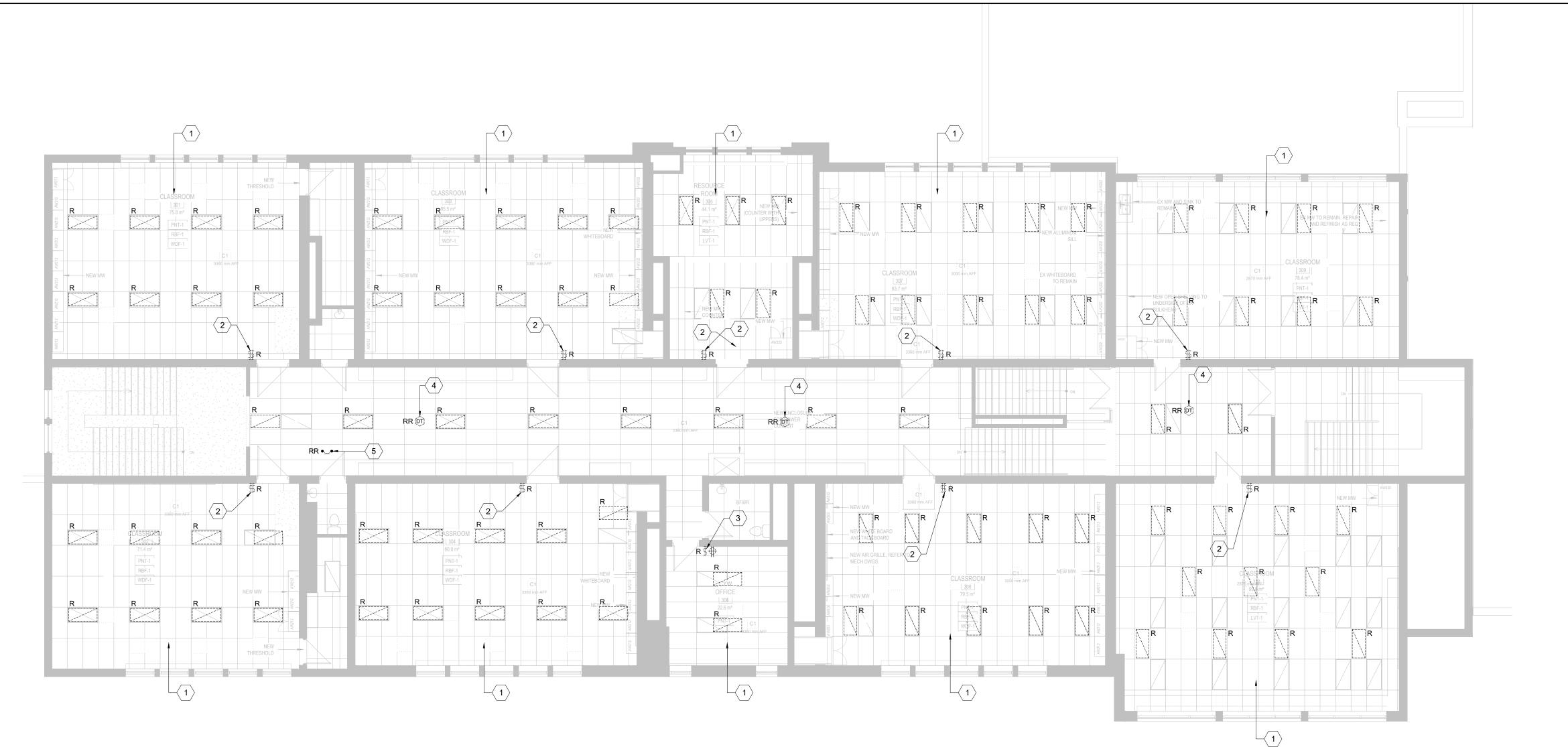
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QUASAR PROJECT No.: ED-22-405



T.W. SEDORE

SECOND FLOOR NEW WORK PLAN - LIGHTING
SCALE: 1:100



### PROJECT GENERAL NOTES

THIS DRAWING IS ISSUED TO SHOW PROPOSED SCOPE OF WORK ONLY. THE CONTRACTOR MUST PERFORM A SITE INSPECTION (INCLUDING CEILING SPACES) DURING THE TENDER PERIOD AND ENSURE THAT ALL WORK THAT IS VISIBLE IS INCLUDED IN THE DEMOLITION SCOPE OF WORK. ALL EXISTING SERVICES THAT PASS THROUGH THE RENOVATION AREA (UNLESS OBSOLETE) ARE TO BE MAINTAINED AND/OR RELOCATED TO SUIT THE SCOPE OF WORK.

### DEMOLITION KEY NOTES:

- EXISTING LIGHTING CIRCUITS TO BE RETAINED. MODIFY EXISTING BRANCH CIRCUIT WIRING AS REQUIRED AND RECONNECT TO NEW LIGHTING AND SWITCHING ARRANGEMENT COMPLETE.

  EXISTING LIGHT SWITCH TO BE REMOVED IN ITS ENTIRETY. FOR FLUSH/RECESSED MOUNTED SWITCHES, DISCONNECT FROM EXISTING LIGHTING BRANCH CIRCUIT WITHIN ROOM, REMOVE EXISTING WIRING TO SWITCH AND PROVIDE BLANK STAINLESS STEEL FACEPLATE OVER EXISTING
- MOUNTED BOX AND CONDUIT OR RACEWAY.

  EXISTING LIGHT SWITCH TO BE REMOVED. BE RESPONSIBLE TO DISCONNECT SWITCH FROM EXISTING LIGHTING BRANCH CIRCUIT WITHIN ROOM, REMOVE ALL EXISTING WIRING TO SWITCH

BOX. FOR SURFACE MOUNTED SWITCHES, DISCONNECT FROM EXISTING LIGHTING BRANCH CIRCUIT WITHIN ROOM, REMOVE EXISTING WIRING TO SWITCH AND ASSOCIATED SURFACE

- AND REPLACE EXISTING SWITCH AND RECEPTACLE FACEPLATE WITH NEW COMBINATION STAINLESS STEEL BLANK AND RECEPTACLE FACEPLATE.

  EXISTING CEILING MOUNTED OCCUPANCY SENSOR TO BE TEMPORARILY DISCONNECTED, TAKEN
- DOWN AND STORED ON SITE TO FACILITATE THE REMOVAL AND REPLACEMENT OF EXISTING CEILING. ONCE NEW CEILING WORK IS COMPLETE, BE RESPONSIBLE TO RE-INSTALL AND RECONNECT OCCUPANCY SENSOR IN SAME LOCATION. EXISTING WIRING SHALL BE COILED SAFELY WITHIN CEILING SPACE DURING THE COURSE OF CONSTRUCTION. TEST AND VERIFY DEVICE UPON COMPLETION OF WORK.
- EXISTING CEILING MOUNTED EMERGENCY LIGHTING UNIT TO BE TEMPORARILY DISCONNECTED, TAKEN DOWN AND STORED ON SITE TO FACILITATE THE REMOVAL AND REPLACEMENT OF EXISTING CEILING. ONCE NEW CEILING WORK IS COMPLETE, BE RESPONSIBLE TO RE-INSTALL AND RECONNECT EMERGENCY LIGHTING UNIT IN SAME LOCATION. EXISTING WIRING SHALL BE COILED SAFELY WITHIN CEILING SPACE DURING THE COURSE OF CONSTRUCTION. TEST AND VERIFY DEVICE UPON COMPLETION OF WORK.

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ISSUE DATE:

ST ANDREW'S
SENIOR PUBLIC
SCHOOL AIR CONDITIONING

65 VICTORIA AVE. CAMBRIDGE, ON N1S 1X2

SHEET TITLE:

UPGRADE

SECOND FLOOR DEMOLITION & NEW WORK PLANS -LIGHTING

PROJECT NO: 22988

SCALE: AS NOTE

DRAWN BY: CW

REVIEWED BY: BD/TWS

SHEET NO:

E-101

SECOND FLOOR DEMOLITION PLAN - LIGHTING
SCALE: 1:100



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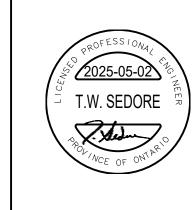
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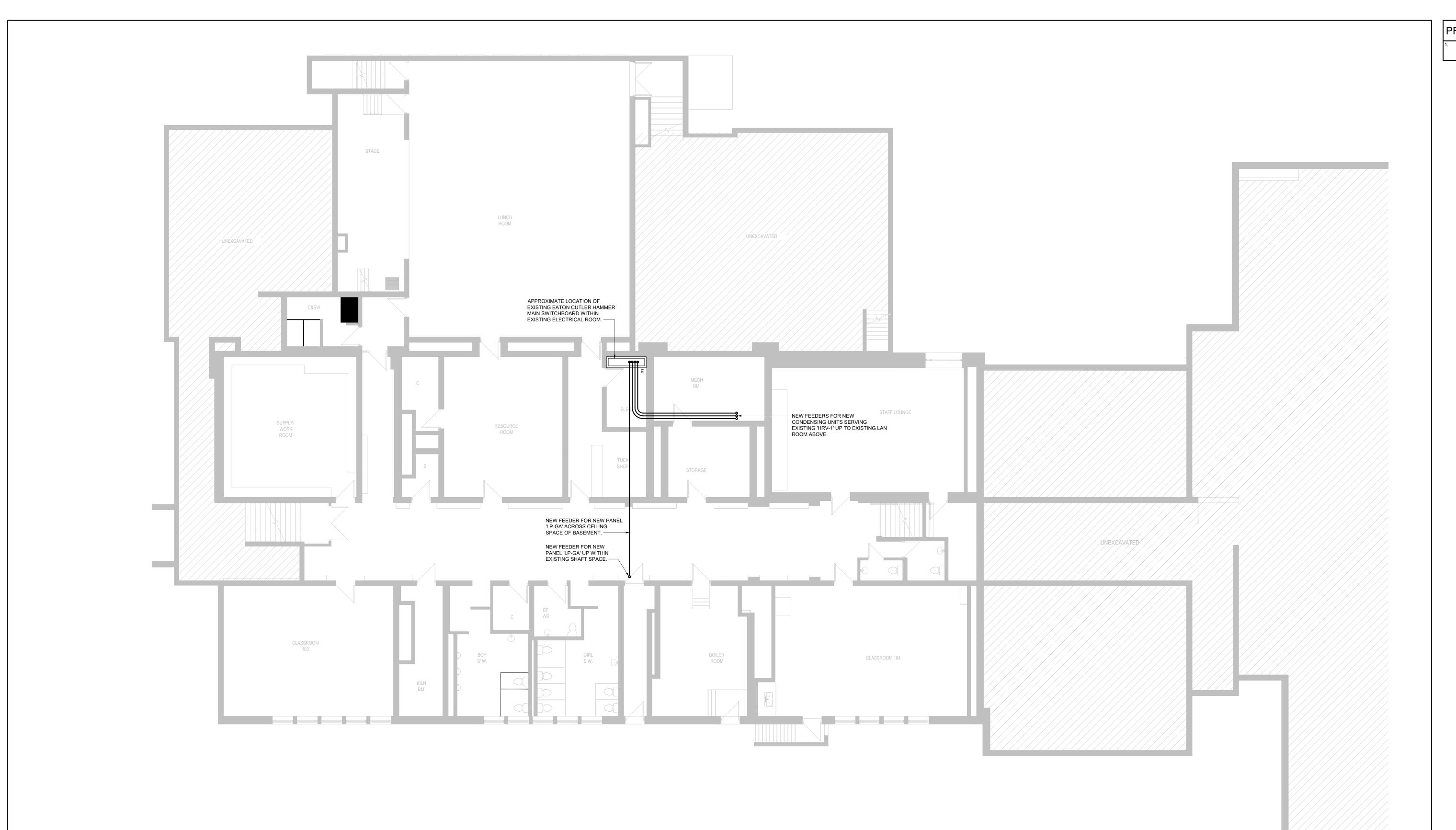


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PROJECT GENERAL NOTES

ROUTING OF CONDUITS IS DIAGRAMMATIC. CONTRACTOR SHALL BE RESPONSIBLE TO CONFIRM EXACT ROUTING ON SITE PRIOR TO ROUGH-IN AND INCLUDE FOR ALL OFFSETS, ETC. AS REQUIRED. INSTALLATION OF NEW FEEDERS SHALL BE COORDINATED WITH ALL EXISTING SERVICES ON SITE.

2 ISSUED FOR DD CLIENT REVIEW 2025-04-11 1 ISSUED FOR DD CLIENT REVIEW 2025-03-26	3	ISSUED FOR TENDER	2025-05-02
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ISSUE DATE:

ST ANDREW'S SENIOR PUBLIC SCHOOL -AIR CONDITIONING UPGRADE

65 VICTORIA AVE. CAMBRIDGE, ON N1S 1X2

SHEET TITLE:

BASEMENT FLOOR NEW WORK PLAN -POWER & SYSTEMS

REVIEWED BY: BD/TWS

SHEET NO:

E-201



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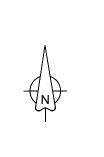
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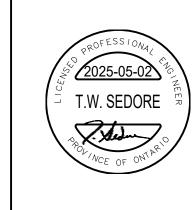
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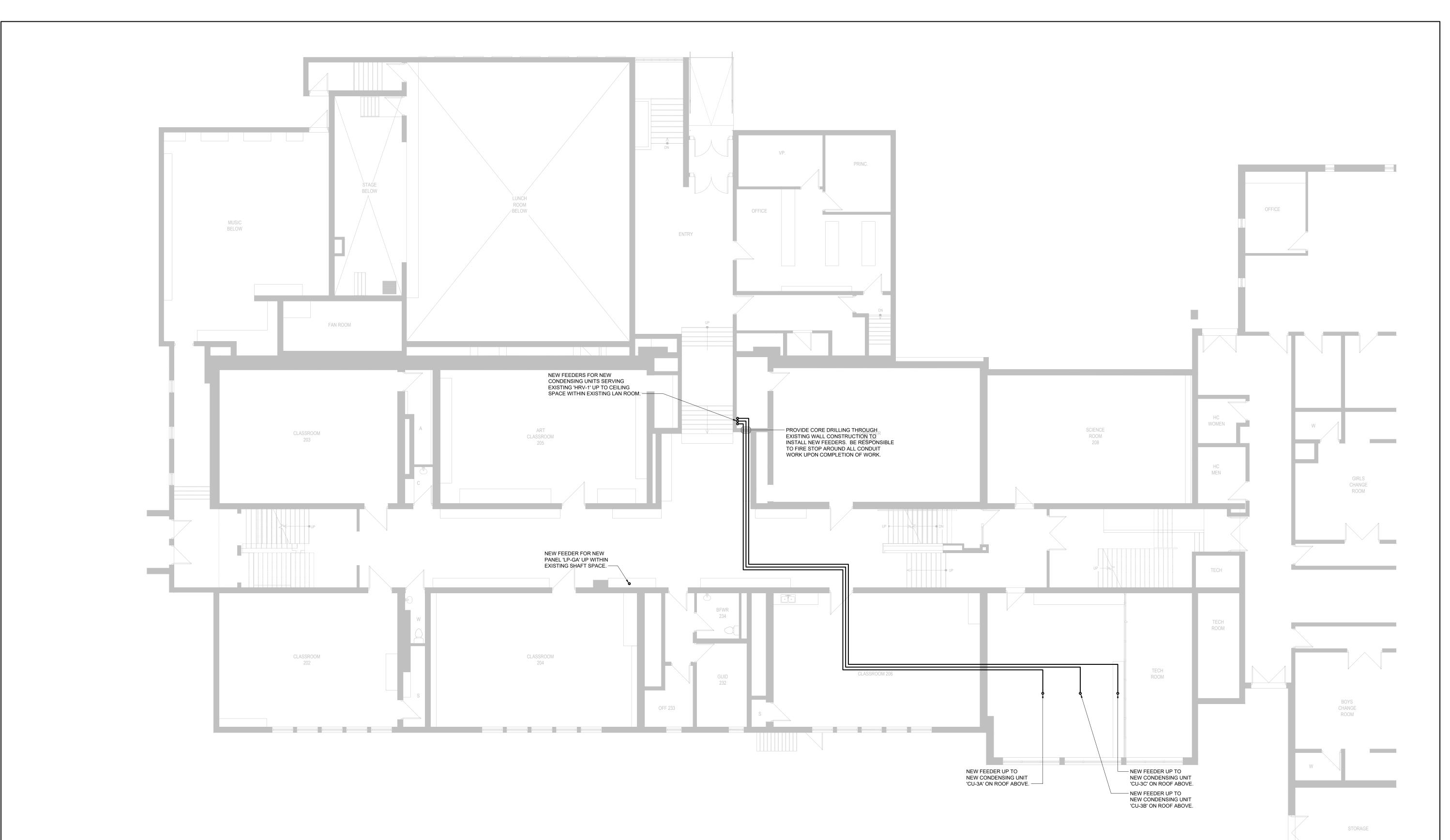


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QUASAR PROJECT No.: ED-22-405







PROJECT GENERAL NOTES

ROUTING OF CONDUITS IS DIAGRAMMATIC. CONTRACTOR SHALL BE RESPONSIBLE TO CONFIRM EXACT ROUTING ON SITE PRIOR TO ROUGH-IN AND INCLUDE FOR ALL OFFSETS, ETC. AS REQUIRED. INSTALLATION OF NEW FEEDERS SHALL BE COORDINATED WITH ALL EXISTING SERVICES ON SITE.

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ST ANDREW'S
SENIOR PUBLIC
SCHOOL AIR CONDITIONING
UPGRADE

65 VICTORIA AVE. CAMBRIDGE, ON N1S 1X2

SHEET TITL

FIRST FLOOR NEW WORK PLAN -POWER & SYSTEMS

PROJECT NO: 22988

SCALE: AS NOTE

DRAWN BY: CW

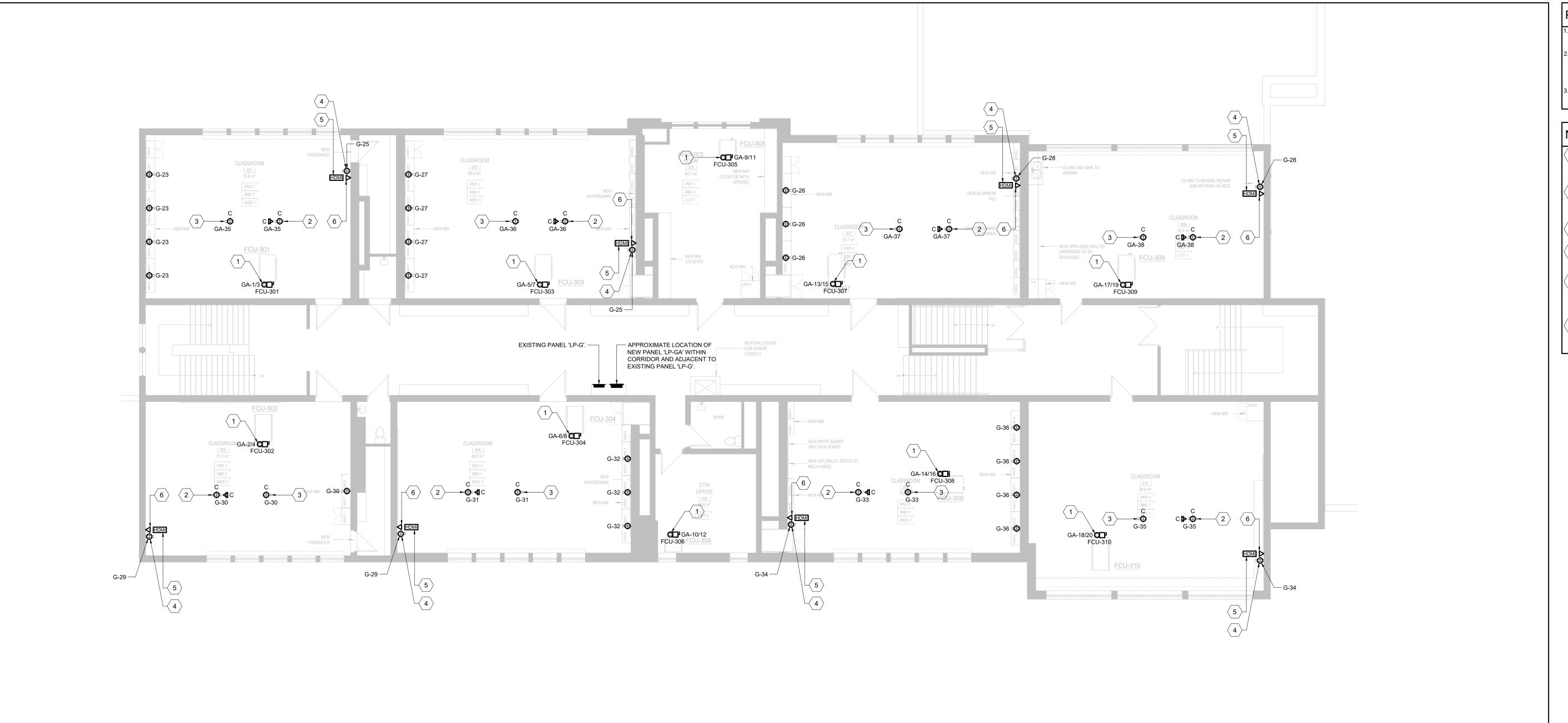
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SHEET NO:

E-202

GROUND FLOOR NEW WORK PLAN - POWER & SYSTEMS

SCALE: 1:100



### PROJECT GENERAL NOTES

- LOCATION OF DEVICES AND LUMINAIRES ARE NOTED FOR DIAGRAMMATIC PURPOSES, CONTRACTOR SHALL BE RESPONSIBLE TO REVIEW ARCHITECTURAL ELEVATIONS AND REFLECTED CEILING PLANS AND SITE CONDITIONS FOR EXACT DEVICE AND LUMINAIRE PLACEMENT. NEW DEVICES SHOWN ON EXISTING WALL CONSTRUCTION SHALL BE INSTALLED SURFACE MOUNTED ON FS TYPE BACK BOXES WITH SURFACE RACEWAY (LEGRAND WIREMOLD 400 SERIES OR EQUIVALENT - WHITE), FROM DEVICE UP TO CEILING SPACE. CONDUIT SHALL BE PROVIDED ABOVE CEILING SPACE IN ALL LOCATIONS. COORDINATE INSTALLATION WITH GENERAL CONTRACTOR AND CURRENT HAZARDOUS MATERIALS SURVEY.
- FOR NEW BRANCH CIRCUITS NOTED ON THE FLOOR PLANS, PROVIDE A NEW 15A-1P BREAKER WITHIN EXISTING PANEL INDICATED AND EXTEND NEW FEEDERS TO EXISTING PANEL AND CONNECT

### NEW WORK KEY NOTES:

- CONNECTION TO NEW FAN COIL UNIT WITHIN CEILING SPACE. FOR BRANCH CIRCUIT INDICATED  $^{
  angle}$  EXTEND 2#10 + GROUND IN 21mm CONDUIT FROM ASSOCIATED BREAKER IN NEW PANEL 'LP-GA' TO FAN COIL UNIT AND CONNECT COMPLETE. COORDINATE ROUTING AND INSTALLATION OF NEW FEEDER WITH ALL EXISTING SERVICES ON SITE PRIOR TO ROUGH-IN. COORDINATE EXACT LOCATION OF FAN COIL UNIT AND FINAL CONNECTIONS WITH MECHANICAL CONTRACTOR ON SITE. RECEPTACLE WITHIN CEILING SPACE FOR CEILING MOUNTED PROJECTOR. PROJECTOR TO BE  $^{
  angle}$  SUPPLIED BY OWNER AND INSTALLED BY ELECTRICAL CONTRACTOR. CONTRACTOR RESPONSIBLE  $\parallel$ TO PROVIDE CEILING MOUNT SUPPORT BRACKET AND EXTENSION ARM FOR PROJECTOR.
- PROJECTOR MODEL TO BE SUPPLIED IS OPTOMA #ZW400. CONNECT RECEPTACLE TO BRANCH CIRCUIT NOTED WITH 2#10 + GROUND IN 21mm CONDUIT. RECEPTACLE WITHIN CEILING SPACE FOR "TOP CAT" CEILING MOUNT AUDIO SYSTEM. AUDIO angle SYSTEM SUPPLIED BY OWNER AND INSTALLED AND CONNECTED BY ELECTRICAL CONTRACTOR. CONNECT RECEPTACLE TO BRANCH CIRCUIT NOTED WITH 2#10 + GROUND IN 21mm CONDUIT.
- RECEPTACLE AND "TOP CAT" AUDIO SYSTEM MEDIA CONNECTOR INSTALLED BELOW EXISTING PHONE. CONNECT RECEPTACLE TO BRANCH CIRCUIT NOTED WITH 2#10 + GROUND IN 21mm CONDUIT. PROVIDE SINGLE COMPARTMENT SURFACE RACEWAY ON FINISHED WALL FROM RECEPTACLE UP TO CEILING SPACE AND CONDUIT FROM CEILING TO PANELBOARD NOTED. SINGLE GANG BACKBOX FOR HDMI WALL PLATE INSTALLED BELOW EXISTING TELEPHONE. EXTEND SINGLE COMPARTMENT SURFACE RACEWAY FROM BACKBOX TO ABOVE CEILING AND 41mm
- SUPPLIED BY OWNER AND INSTALLED BY ELECTRICAL CONTRACTOR. COORDINATE WITH WRDSB I.T. DEPARTMENT DURING CONSTRUCTION. SINGLE GANG BACKBOX FOR DATA OUTLET TO BE INSTALLED BELOW EXISTING TELEPHONE. EXTEND SINGLE COMPARTMENT SURFACE RACEWAY FROM BACKBOX TO ABOVE CEILING, AND TERMINATE WITHIN CEILING SPACE OF ROOM. DATA OUTLET AND CABLING TO BE SUPPLIED AND INSTALLED BY WRDSB PREFERRED VENDOR. COORDINATE WITH WRDSB I.T. DEPARTMENT AND VENDOR DURING CONSTRUCTION.

CONDUIT, COMPLETE WITH PULL STRING, FROM SURFACE RACEWAY TO TERMINATE WITHIN CEILING SPACE ABOVE NEW PROJECTOR LOCATION. HDMI WALL PLATE AND WIRING TO BE

partners

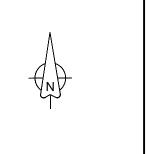
310 Spadina Ave, Suite 100B Toronto, Ontario, Canada M5T 2E8 T: 416 203 7600 F: 416 203 3342

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905-507-0800 WWW.QUASARCG.COM

QUASAR PROJECT No.: ED-22-405



T.W. SEDORE

### PROJECT GENERAL NOTES

THIS DRAWING IS ISSUED TO SHOW PROPOSED SCOPE OF WORK ONLY. THE CONTRACTOR MUST PERFORM A SITE INSPECTION (INCLUDING CEILING SPACES) DURING THE TENDER PERIOD AND ENSURE THAT ALL WORK THAT IS VISIBLE IS INCLUDED IN THE DEMOLITION SCOPE OF WORK. ALL EXISTING SERVICES THAT PASS THROUGH THE RENOVATION AREA (UNLESS OBSOLETE) ARE TO BE MAINTAINED AND/OR RELOCATED TO SUIT THE SCOPE OF WORK.

	LITION K	EY NOT	ES:		
2					
3					
4					
<b>(5)</b>					
$\langle 6 \rangle$					
7					
$\langle 8 \rangle$					

SSUE DATE:	
ISSUED FOR DD CLIENT REVIEW	2025-03-20
ISSUED FOR DD CLIENT REVIEW	2025-04-1
ISSUED FOR TENDER	2025-05-02

ST ANDREW'S SENIOR PUBLIC SCHOOL -AIR CONDITIONING UPGRADE

65 VICTORIA AVE. CAMBRIDGE, ON N1S 1X2

### SHEET TITLE:

SECOND FLOOR **DEMOLITION &** NEW WORK PLANS -POWER & SYSTEMS

PROJECT NO:	22988
SCALE:	AS NOTE
DRAWN BY:	CW
REVIEWED BY:	BD/TWS

E-203



RR 🕀 🛮 RR 🙉

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SECOND FLOOR DEMOLITION PLAN - POWER & SYSTEMS

SCALE: 1:100

SECOND FLOOR NEW WORK PLAN - POWER & SYSTEMS

R 🗳

RR S OFFRR PA R 🗳

R 🖒

UNDERSIDE OF EX BULKHEAD

EX MW TO REMAIN. REPAIR AND REFINISH AS REQ.



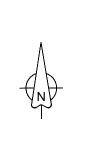
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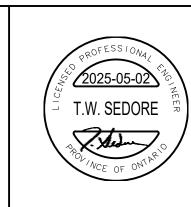
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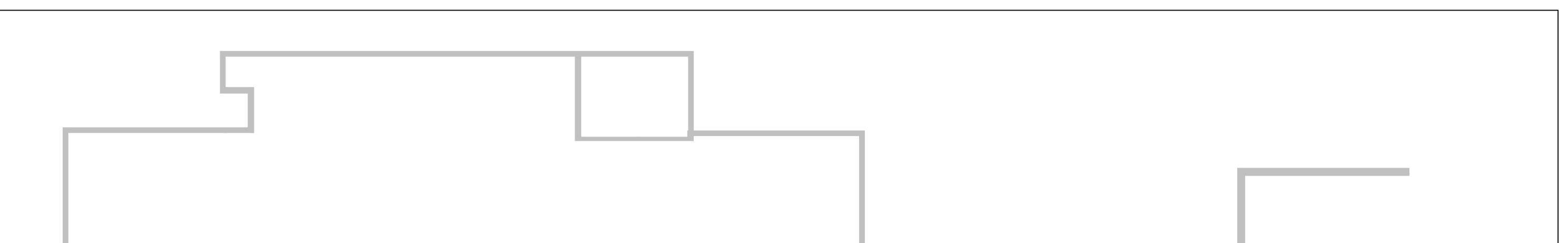


250 ROWNTREE DAIRY RD, WOODBRIDGE, ON 905-507-0800 WWW.QUASARCG.COM

QUASAR PROJECT No.: ED-22-405







### PROJECT GENERAL NOTES

LOCATION OF DEVICES AND LUMINAIRES ARE NOTED FOR DIAGRAMMATIC PURPOSES, CONTRACTOR SHALL BE RESPONSIBLE TO REVIEW ARCHITECTURAL ELEVATIONS AND REFLECTED CEILING PLANS AND SITE CONDITIONS FOR EXACT DEVICE AND LUMINAIRE PLACEMENT. COORDINATE EXACT LOCATION AND FINAL CONNECTIONS OF ALL ROOF MOUNTED EQUIPMENT WITH MECHANICAL CONTRACTOR ON SITE. PLAN AND COORDINATE LOCATION OF ALL ROOF PENETRATION PRIOR TO ROUGH-IN.

### NEW WORK KEY NOTES:

- PROVIDE CONNECTION TO NEW ROOF MOUNTED CONDENSING UNIT. FOR BRANCH CIRCUIT BREAKER IN NEW PANEL 'LP-GA' WITHIN LEVEL 2 CORRIDOR BELOW AND CONNECT COMPLETE. INCLUDE FOR LINE AND LOAD CONNECTIONS TO ASSOCIATED WEATHERPROOF DISCONNECT SWITCH AT ROOF LEVEL.
- PROVIDE ROOF MOUNTED SERVICE RECEPTACLE PER DETAIL #6 ON DRAWING #E-301. FOR BRANCH CIRCUIT INDICATED, EXTEND 2#10 + GROUND IN 21mm CONDUIT FROM RECEPTACLE POST TO ASSOCIATED BREAKER IN NEW PANEL 'LP-GA' AND CONNECT COMPLETE. CONFIRM EXACT LOCATION OF DEVICE ON ROOF PRIOR TO ROUGH-IN. ANY NEW ROOF PENETRATIONS SHALL BE PROPERLY SEALED AND MADE WEATHER AND WATER TIGHT. MAINTAIN ANY EXISTING FIRE
- PROVIDE CONNECTION TO NEW ROOF MOUNTED CONDENSING UNIT. PROVIDE A 60A-3P BREAKER WITHIN EXISTING SWITCHBOARD ON BASEMENT LEVEL AND EXTEND 3#4 + 1#8 GROUND IN 41mm CONDUIT FROM CONDENSING UNIT TO ASSOCIATED BREAKER IN SWITCHBOARD AND CONNECT COMPLETE. COORDINATE EXACT LOCATION OF CONDENSING UNIT AND FINAL CONNECTIONS WITH MECHANICAL CONTRACTOR ON SITE. ANY NEW ROOF PENETRATIONS SHALL BE PROPERLY SEALED AND MADE WEATHER AND WATER TIGHT. MAINTAIN ANY EXISTING FIRE RATING. REFER TO DRAWINGS #E-201 AND #E-202 FOR APPROXIMATE ROUTING OF NEW FEEDERS FROM SWITCHBOARD WITHIN BUILDING.
- DISCONNECTS FOR ROOF MOUNTED CONDENSING UNITS AND ROOF MOUNTED SERVICE RECEPTACLE TO BE INSTALLED ON PLYWOOD BACKBOARD MOUNTED TO VERTICAL UNISTRUT SUPPORT MEMBERS. UNISTRUT MEMBERS TO BE BOLTED TO EXISTING ROOF STRUCTURE. PLYWOOD BACKBOARD TO BE PRESSURE TREATED AND PAINTED WITH WEATHER RESISTANT PAINT. ALL DISCONNECT SWITCHES SHALL BE WEATHERPROOF, NEMA 4X RATED. RECEPTACLE SHALL BE 20A WEATHERPROOF GFI TYPE RECEPTACLE. EXTEND 2#10 + GROUND IN 21mm (3") CONDUIT FROM RECEPTACLE TO NEW BREAKER IN BRANCH CIRCUIT PANEL BOARD NOTED AND CONNECT COMPLETE. REFER TO PANEL SCHEDULES ON DRAWING #E-301 FOR FURTHER DETAILS. ANY NEW ROOF PENETRATIONS SHALL BE PROPERLY SEALED AND MADE WEATHER AND WATER
- TIGHT. MAINTAIN ANY EXISTING FIRE RATING. PROVIDE CONNECTION TO NEW W-CONTROLLERS (THREE) AND ENCLOSURE HEATER LOCATED WITHIN WEATHERPROOF ENCLOSURE AND INSTALLED BESIDE UNIT. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR ON SITE PRIOR TO ROUGH-IN. FOR BRANCH CIRCUIT INDICATED, EXTEND 2#10 + GROUND IN 21mm CONDUIT FROM DEVICES TO ASSOCIATED BREAKER IN NEW PANEL 'LP-GA'. ANY NEW ROOF PENETRATIONS SHALL BE PROPERLY SEALED AND MADE
- WEATHER AND WATER TIGHT. MAINTAIN ANY EXISTING FIRE RATING. PROVIDE CONNECTION TO PAN HEATER AND HEAT TRACING FOR CONDENSING UNITS 'CU-3A',  $^{
  angle}$  'CU-3B' AND 'CU-3C'. FOR BRANCH CIRCUIT INDICATED, EXTEND 2#10 + GROUND IN 21mm CONDUIT FROM HEAT TRACE AND PAN HEATER CONTROLLER TO ASSOCIATED BREAKER IN NEW PANEL 'LP-GA' AND CONNECT COMPLETE. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR ON SITE PRIOR TO ROUGH-IN. ANY NEW ROOF PENETRATIONS SHALL BE PROPERLY SEALED AND MADE WEATHER AND WATER TIGHT. MAINTAIN ANY EXISTING FIRE RATING.
- PROVIDE CONNECTION TO PAN HEATER AND HEAT TRACING FOR CONDENSING UNITS 'CU-1' AND 'CU-2'. FOR BRANCH CIRCUIT INDICATED, EXTEND 2#10 + GROUND IN 21mm CONDUIT FROM HEAT TRACE AND PAN HEATER CONTROLLER TO ASSOCIATED BREAKER IN NEW PANEL 'LP-GA' AND CONNECT COMPLETE. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR ON SITE PRIOR TO ROUGH-IN. ANY NEW ROOF PENETRATIONS SHALL BE PROPERLY SEALED AND MADE WEATHER AND WATER TIGHT. MAINTAIN ANY EXISTING FIRE RATING.

3	ISSUED FOR TENDER	2025-05-02
2	ISSUED FOR DD CLIENT REVIEW	2025-04-11

ISSUED FOR DD CLIENT REVIEW

# ST ANDREW'S SENIOR PUBLIC SCHOOL -AIR CONDITIONING

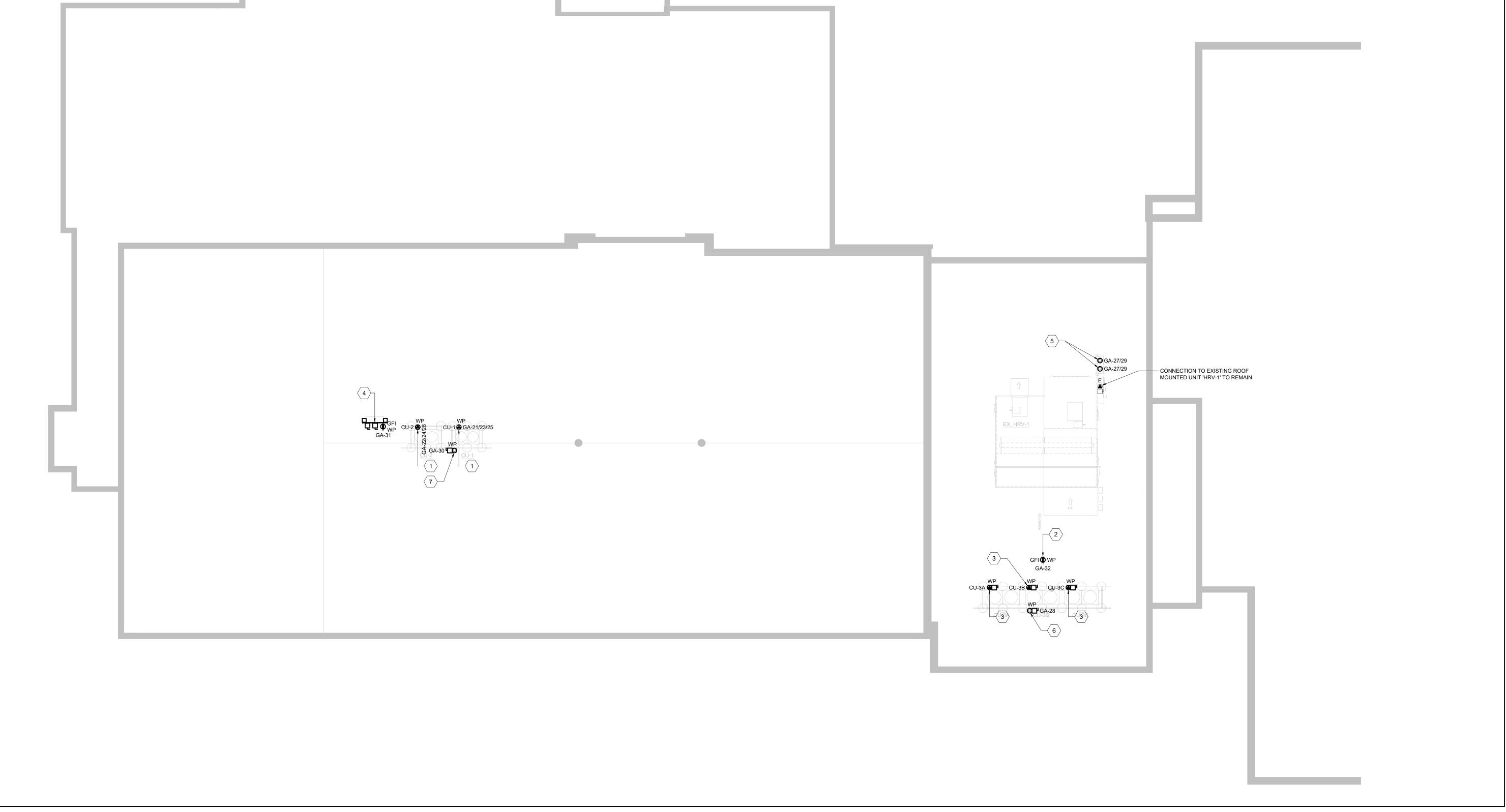
65 VICTORIA AVE. CAMBRIDGE, ON N1S 1X2

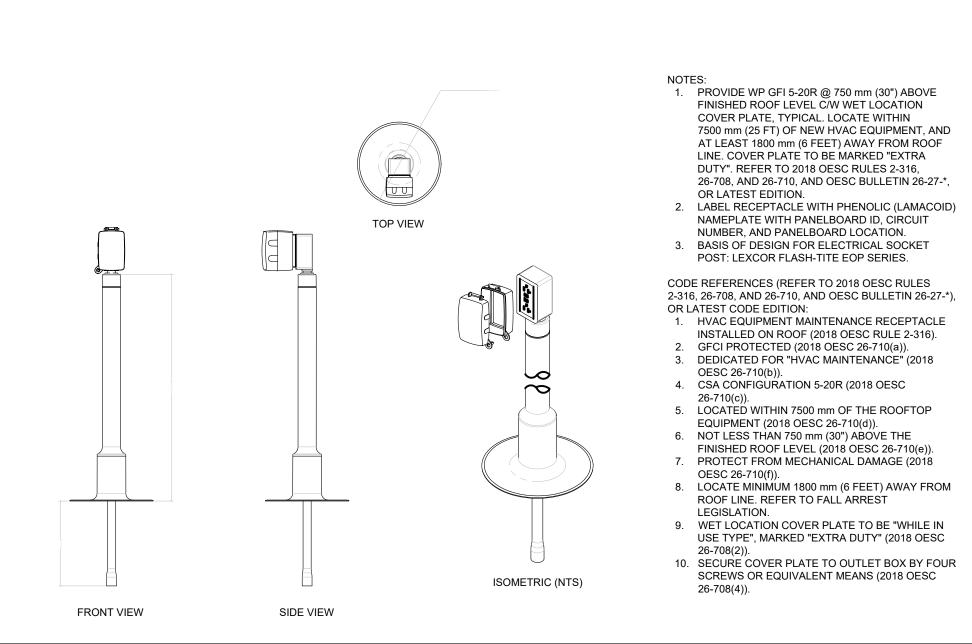
UPGRADE

ROOF NEW WORK PLAN -POWER & SYSTEMS

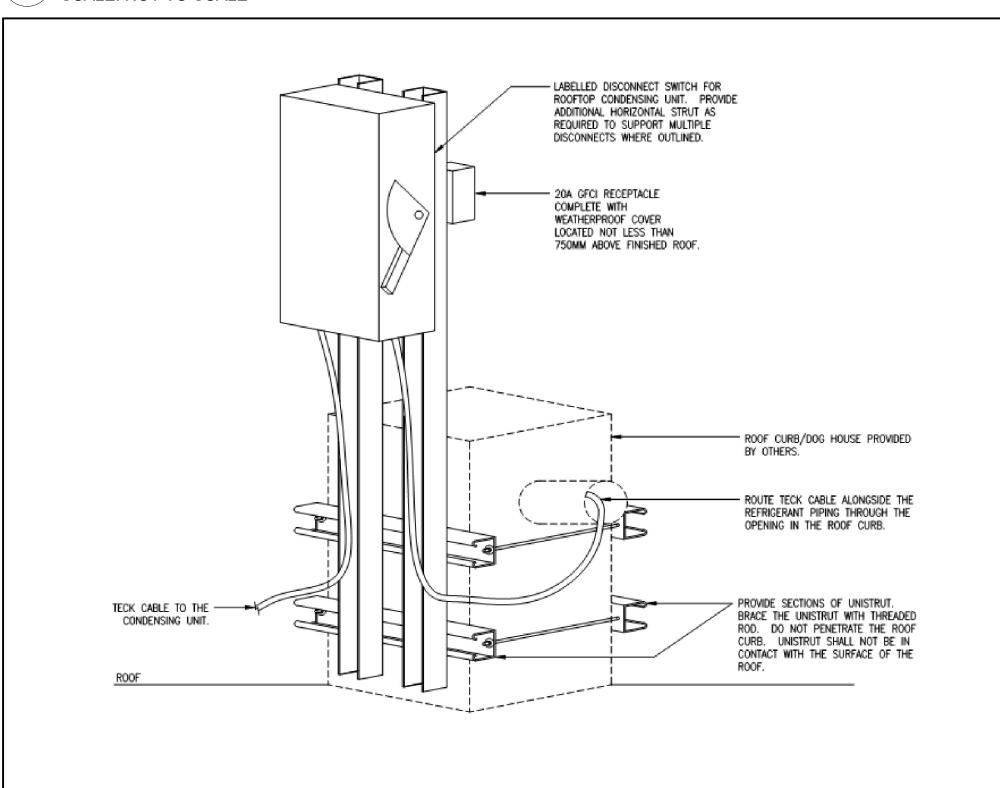
PROJECT NO:	22988
SCALE:	AS NOTE
DRAWN BY:	CW
REVIEWED BY:	BD/TWS

E-204





### DETAIL OF CONDUIT PENETRATION THROUGH ROOF SCALE: NOT TO SCALE



NOTES:	TON SPICE
<ol> <li>TYPICAL DIMENSIONS FOR A RECESSED SINGLE TUB RECEPTACLE PANELBOARD WITH MAX 100A FRAME SIZE BRANCH BREAKERS:</li> <li>TUB DEPTH: 146.1 mm (5.75"). ARCHITECTURAL TO ALLOW PARTITION DEPTH MINIMUM 150 mm (6") FROM FACE TO INSIDE CLEAR.</li> <li>TUB WIDTH: 508 mm (20")</li> <li>TUB HEIGHT: VARIES BASED ON NUMBER OF BRANCH BREAKERS, TYPICALLY RANGES BETWEEN 48 INCH (30 POLE), AND 72 INCH (42 POLE), BUT CAN ALSO BE TALLER.</li> <li>RECESSED PANELBOARD TRIM PLATE: TYPICALLY TUB DIMENSIONS PLUS 38.2 mm (1.5").</li> <li>CLEAR SPACE: MINIMUM 1000 mm BY 1000 mm SQUARE BY 2000 mm HIGH. PANEL NEED NOT BE CENTRED IN THE CLEAR SPACE (ONTARIO ELECTRICAL SAFETY CODE RULE 2-308(1)).</li> <li>BRANCH CIRCUIT CONDUIT QUANTITY AND SIZE TO ACCOMMODATE CIRCUITS AS FOLLOWS:</li> <li>UP TO 100A, 42 CIRCUIT PANELBOARD: 2 x 41 mm (1-1/2") Ø</li> <li>UP TO 225A, 42 CIRCUIT PANELBOARD: 2 x 53 mm (2") Ø</li> <li>UP TO 600A, 42 CIRCUIT PANELBOARD: 3 x 53 mm (2") Ø</li> <li>UP TO 600A, 42 CIRCUIT PANELBOARD: 3 x 53 mm (2") Ø</li> <li>MINIMUM JUNCTION BOX SIZE: 600 mm BY 600 mm BY 75 mm.</li> </ol>	CONDUITS IN WALL  CONDUITS IN WALL  RECESSED RD  PANELBOARD  PANELBOARD  COLUMN STREET
5. WHEN INSTALLING NEW RECESSED PANELBOARD IN EXISTING PARTITION OR WALL, REINSTATE WALL AND CEILING.	

INSTALLATIOIN DETAIL OF TYPICAL PANELBOARD SCALE: NOT TO SCALE

WIRE SIZE	BREAKER SIZE (AMPERES)	15	20	30	40	50	60	70	80	100
	MAX. LOAD AT 80% (AMPERES)	12	16	24	32	40	48	56	68	80
NO.12		24.4	18.3							
NO.10		38.1	29.0	19.1						
NO.8		59.4	44.2	30.5	22.9					
NO. 6		91.4	70.1	47.2	35.1	28.2	23.6			
NO. 4			109.7	73.2	54.9	42.7	38.1	32.0	27.4	
NO. 2				114.3	85.3	68.6	57.9	50.3	41.1	35.0
NO. 1					103.6	85.3	73.2	61.0	54.9	43.4
NO.1/0					128.0	102.9	85.3	73.2	64.0	48.8
NO.2/0						121.9	100.6	86.9	74.7	60.9
NO.3/0							118.1	102.1	88.4	70.1
NO.4/0								120.4	102.9	83.8
250 MCM									114.3	91.4
300 MCM										103.6

MAXIMUM BRANCH WIRING DISTANCE FOR 3% VOLTAGE DROP SCALE: NOT TO SCALE

EMERGENCY LIGHTING WIRING MAX VOLTAGE DROP

SCALE: NOT TO SCALE

		3CHEDULE	26 06 50.23 - LIGHTING	CONTRO				
SYMBOL	TYPE	DESCRIPTION	BASIS OF DESIGN MANUFACTURERS AND PRODUCT SERIES	CONTROL WIRING	VOLTAGE OUTPUT	MOUNTING	SPECIFICATION SPACES SERVED	REMARKS
PP		LIGHTING CONTROL POWER PACK	LEGRAND/WATTSTOPPER #A120C	LOW VOLTAGE	24V	ABOVE CEILING	26 09 43	CONNECT INTO EXISTING LIGHTING CIRCUITS
HDT	DT-W-2V	WALL MOUNT OCCUPANCY SENSOR, 24 V, DUAL TECHNOLOGY SENSOR, MIN 1200 SQ FT COVERAGE	WATTSTOPPER DT-200 SERIES		24V	WALL, +/- 12 FEET AFF	26 09 23	
(DT)	DT-C-2V	CEILING MOUNTED OCCUPANCY SENSOR, 24 V, DUAL TECHNOLOGY SENSOR.	LEGRAND/WATTSTOPPER DT-300 SERIES		24V	CEILING	26 09 23	

SYMBOL	TYPE	DESCRIPTION	BASIS OF DESIGN MANUFACTURERS AND PRODUCT SERIES	CONTROL WIRING	VOLTAGE OUTPUT	MOUNTING	SPACES SERVED	REMARKS
<sub>\$</sub> 2B	UI-DIM-2V-2B	DIMMING WALL STATION, ONE-ZONE, 0-10 V DIMMING, CONNECTED TO POWER PACK. FOR CONTROL OF ONE ZONE OF LIGHTING.	LEGRAND WATTSTOPPER LMSW-211-WH	DIGITAL	-	WALL	OFFICE/RESOURCE ROOM	SUBMITTAL WITH STANDARD/PROPSED ENGRAVING OPTION. ALLOW FOR CUSTOM LABELLING OPTION AT OWNER'S DISCRETION.
<b>4</b> B	UI-DIM-2V-4B	DIMMING WALL STATION, TWO-ZONE, 0-10 V DIMMING, CONNECTED TO POWER PACK. FOR CONTROL OF ONE ZONE OF LIGHTING.	LEGRAND WATTSTOPPER LMSW-222-WH	DIGITAL	-	WALL	CLASSROOM	SUBMITTAL WITH STANDARD/PROPSED ENGRAVING OPTION. ALLOW FOR CUSTOM LABELLING OPTION AT OWNER'S DISCRETION.
HOT	DT-W-2V	WALL MOUNT OCCUPANCY SENSOR, 24 V, DUAL TECHNOLOGY SENSOR, MIN 1200 SQ FT COVERAGE	LEGRAND WATTSTOPPER LMDX-100	DIGITAL	-	WALL, +/- 10 FEET AFF		
(DT)	DT-C-2V	CEILING MOUNTED OCCUPANCY SENSOR, 24 V, DUAL TECHNOLOGY SENSOR.	LEGRAND WATTSTOPPER LMDC-100	DIGITAL	-			

ı	3. DUAL TECHNOLOGY SENSORS: PASSIVE INFRARED/ULTRASONIC, OR PASSIVE INFRARED/MICROPHONIC, DEPENDING ON MANUFACTURER. MICROPHONIC SENSORS ACCEPTABLE IN LIEU OF ULTRASONIC.
ı	4. POSITION CEILING MOUNTED OCCUPANCY SENSORS A MINIMUM 1200 mm (4'-0") FROM NEAREST AIR DIFFUSER, HVAC OUTLETS, HEATING BLOWERS, ETC.
ı	5. CONFIRM INSTALLATION REQUIREMENTS, WIRING DIAGRAMS, ETC. WITH MANUFACTURER'S DETAILS.
	6. SUBMIT SHOP DRAWINGS FOR CONSULTANT'S REVIEW PRIOR TO PLACING ANY ORDER.
ı	7. CONFIRM FINISH COLOUR WITH CONSULTANT DURING SUBMITTAL REVIEW.
•	

SYMBOL	TYPE	DESCRIPTION	BASIS OF DESIGN MANUFACTURER AND CAT NO. SEE NOTE 1	VOLTAGE/ (3500 K CCT INPUT UNLESS NOTED WATTS OTHERWISE) MINIMUM 80 CR		MOUNTING	REFERENCE	REMARKS
	L1	RECESSED 2' x 4' LED TROFFER STYLE LUMINAIRE COMPLETE WITH WHITE FINISH, AND K12 ACRYLIC PRISMATIC LENS, 0.125" THICK.	PEERLESS ELECTRIC (OMNILUMEN) PEERLUX SERIES CAT.#LACH3-24G-40-40K-12P-MV	120V	4000 LUMEN 4000K	RECESSED T-BAR CEILING		

\* - PROVIDE LOCKABLE BREAKER \* - PROVIDE GFI TYPE BREAKER

R - RECEPTACLE

\*\* - COORDINATE EXACT BREAKER SIZE WITH EQUIPMENT SHOP DRAWINGS

CIRCUIT NUMBERS ARE GIVEN FOR GROUPING ONLY. SITE VERIFY AVAILABLE CIRCUIT BREAKER SPACES IN PANELS DURING TENDER WALKTHROUGH.

	26 06 20	.16 -	ELE	CTR	RICA	L P	ANE	LBC	DARI	) SC	HEDULE		
	PANEL ID: LP-	V	VOLTS: 120/208V LOCATION: EXISTING LEVEL 2 CORRIDOR										
	MAIN BUS: 100	PHASE: 3				FED FROM: EXISTING MAIN SWITCHBOARD							
	MAIN BREAKER: N	NONE		WIRE: 4  MOUNTING: RECESSED				FEEDER ENTRY AT: BOTTOM					
	TYPE:								FEEDEF	R: REFEF	R TO DRAWING NOTES		
INT	ERRUPTING CAPACIT	Y: 10KA	MIN	ENC	LOSUR	E RAT	TING:			RI	EMARKS:		
CIR	DESCRIPTION	\	WATTAG	E	BRK		ø BRK		NATTAG	E	DESCRIPTION	CIR	
NO.	DEGCINI HON	ØA	ØB	ØC	R		R	ØA	ØB	ØС	DESCRIPTION	NO.	
1	FAN COIL UNIT	268	-	-	15	Α	15	234	-	-	FAN COIL UNIT 'FCU-302'	2	
3	'FCU-301'	-	268	-		В		-	234	-		4	
5	FAN COIL UNIT	-	-	268	15	С	15	-	-	234	FAN COIL UNIT 'FCU-304'	6	
7	'FCU-303'	268	-	-	13	Α	13	234	-	-		8	
9	FAN COIL UNIT	-	37	-	15	В	15	-	37	-	FAN COIL UNIT 'FCU-306'	10	
11	'FCU-305'	-	-	37		С		-	-	37		12	
13	FAN COIL UNIT	268	-	-	15	Α	15	234	-	-	FAN COIL UNIT 'FCU-308'	14	
15	'FCU-307'	-	268	-	13	В	13	-	234	-		16	
17	FAN COIL UNIT	-	-	268	4.5	С	45	-	-	262	FAN COIL UNIT	18	
19	'FCU-309'	268	-	-	15	Α	15	262	-	-	'FCU-310'	20	
21		-	3945	-		В		-	5167	-		22	
23	ROOF MOUNTED CONDENSING UNIT 'CU-1'	-	-	3945	40	С	50	-	-	5167	ROOF MOUNTED CONDENSING UNIT 'CU-2'	24	
25		3945	-	-		Α		5167	-	-		26	
27	HRV UNIT - W	-	400	_	4 5 4 4	В	20**	-	1500	-	COND. UNIT 3A-3B-3C HEAT TRACE & PAN HTR	28	
29	CONTROL BOXES & HEATER	-	-	400	15**	С	15*	-	-	1200	COND. UNIT CU-1 & CU-2 HEAT TRACE & PAN HTR	30	
31	ROOF TOP SERVICE RECEPT	1500	-	-	20**	Α	20**	1500	-	-	ROOF TOP SERVICE RECEPT	32	
33	SPARE BREAKER	-	0	-	15	В	15	-	0	-	SPARE BREAKER	34	
35	301 - RECEPT	-	-	1000	15	С	15	-	-	1000	303 - RECEPT.	36	
37	307 - RECEPT	1000	-	-	15	Α	15	1000	-	-	309 - RECEPT	38	

7. CONFIRM FINISH COLOUR WITH CONSULTANT DURING SUBMITTAL REVIEW.

41	SPARE BREAKER	-	-	U	20	C	20	-	-	U	SPARE BREAKER	4
	•	T	OTAL ØA	.:W	, TOTAL	L ØB: _	W ,	TOTAL	ØC:	_W		
NOTE	S:											
** - PR *** - C R - RE	OVIDE LOCKABLE BREA ROVIDE GFI TYPE BREA OORDINATE EXACT BR CEPTACLE CHTING	KER	SIZE WI <sup>-</sup>	TH EQUI	PMENT	SHOP	DRAWI	NGS				
	JIT NUMBERS ARE GIVING TENDER WALKTHRO		GROUPI	NG ONL	Y. SITE	VERI	FY AVAI	LABLE C	CIRCUIT	BREAKE	R SPACES IN PANELS	

	20 00 20	. 10 -					\\INE	LDC			HEDULE			
	PANEL ID: LP-	V	OLTS: 1	20/208	3V	LOCATION: EXISTING LEVEL 2 CORRIDOR								
MAIN BUS: 225A					PHASE: 3				FED FROM: EXISTING MAIN SWITCHBOARD					
MAIN BREAKER: NONE				WIRE: 4				FEEDER ENTRY AT: BOTTOM						
	TYPE:			MOU	NTING: F	RECE	SSED			FEEDE	R: EXISTING			
IN	TERRUPTING CAPACIT	Y: 10KA	MIN	ENC	LOSURI	E RAT	ING:			RE	EMARKS:			
CIR		V	VATTAG	E	BRK		BRK	V	VATTAG	E		CIR		
NO.	DESCRIPTION	ØA	ØB	ØC	R	Ø	R	ØA	ØB	ØC	DESCRIPTION	N		
1		0	_	-		Α	15	0	_	_	EXISTING LOAD	2		
3	EXISTING LOAD	_	0	_	40	В	15	_	0	_	EXISTING LOAD			
5	EXISTING LOAD	-	-	0	15	С	15	-	-	0	EXISTING LOAD	(		
7	EXISTING LOAD	0	-	-	15	Α	15	0	-	-	EXISTING LOAD	8		
9	EXISTING LOAD	-	0	-	15	В	15	-	0	-	EXISTING LOAD	1		
11	EXISTING LOAD	-	-	0	15	С	15	-	-	0	EXISTING LOAD	1		
13	EXISTING LOAD	0	-	-	15	Α	15	0	-	-	EXISTING LOAD	1		
15	EXISTING LOAD	-	0	-	15	В	15	-	0	-	EXISTING LOAD	1		
17	EXISTING LOAD	-	-	0	15	С	15	-	-	0	EXISTING LOAD	1		
19	SPARE BRKR	0	-	-	15	Α	15*	0	-	-	EXISTING LOAD	2		
21	EXISTING LOAD	-	0	-	15	В	15*	-	0	-	EXISTING LOAD	2		
23	301 - RECEPT	-	-	1000	15	С	15	-	-	0	EXISTING LOAD	2		
25	301, 303 - RECEPT	1000	-	-	15	Α	15	1000	-	-	307 - RECEPT	2		
27	303 - RECEPT	-	1000	-	15	В	15	-	1000	-	307, 309 - RECEPT	2		
29	302, 304 - RECEPT	-	-	1000	15	С	15	-	-	1000	302 - RECEPT.	3		
31	304 - RECEPT.	1000	-	-	15	Α	15	1000	-	-	304 - RECEPT.	3		
33	308 - RECEPT	-	1000	-	15	В	15	-	1000	-	308, 310 - RECEPT.	3		
35	310 - RECEPT	-	-	1000	15	С	15	-	-	1000	308 - RECEPT.	3		
37	SPARE BRKR	0	-	-	15	Α	15	0	-	-	SPARE BRKR	3		
39	SPARE BRKR	-	0	-	15	В	15	-	0	-	SPARE BRKR	4		
41	SPARE BRKR	-	-	0	15	С	15	-	-	0	SPARE BRKR	4		

ISSUED FOR TENDER

**ISSUE DATE:** 

ISSUED FOR DD CLIENT REVIEW

ISSUED FOR DD CLIENT REVIEW

2025-05-02

2025-04-11

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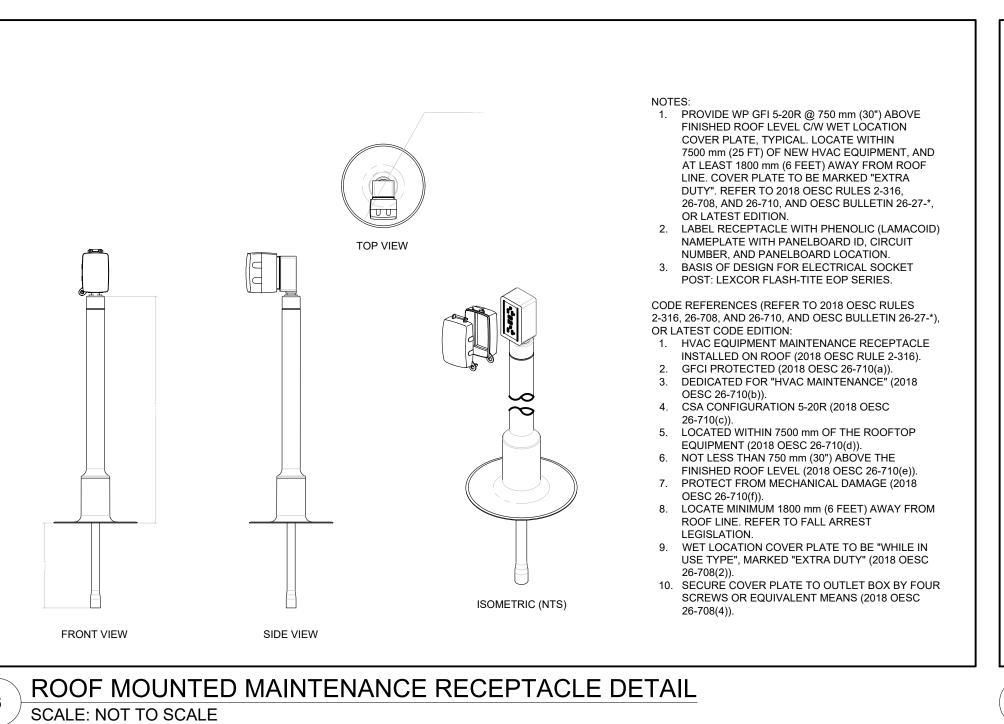
PROJECT: ST ANDREW'S SENIOR PUBLIC SCHOOL -AIR CONDITIONING UPGRADE

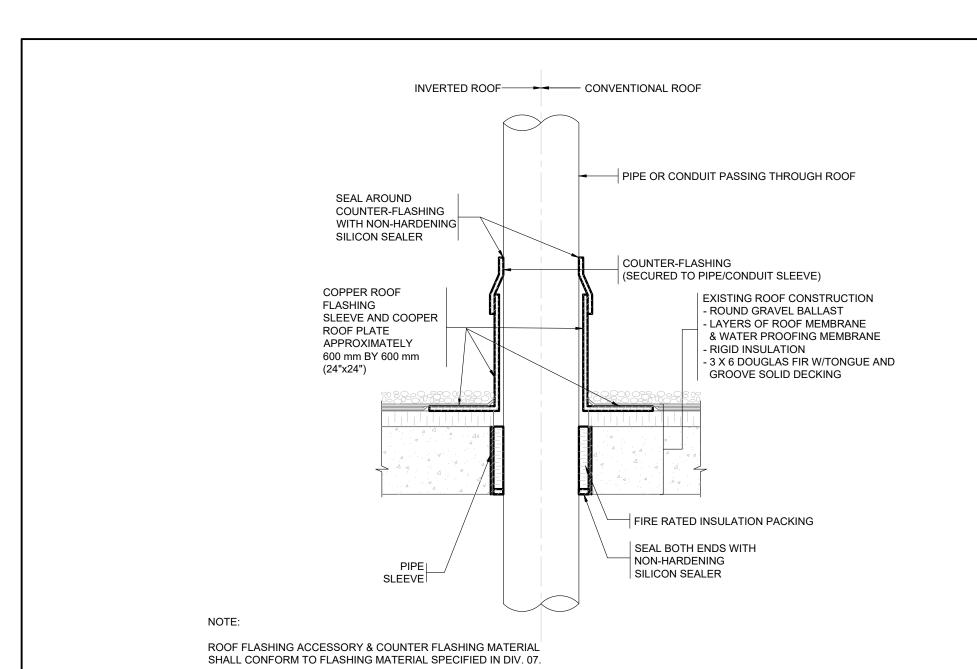
65 VICTORIA AVE. CAMBRIDGE, ON N1S 1X2

SHEET TITLE: ELECTRICAL SCHEDULES & DETAIL SHEET No.1

**REVIEWED BY:** BD/TWS

SHEET NO: E-301





EMERGENCY LIGHTING WIRING MAX VOLTAGE DROP

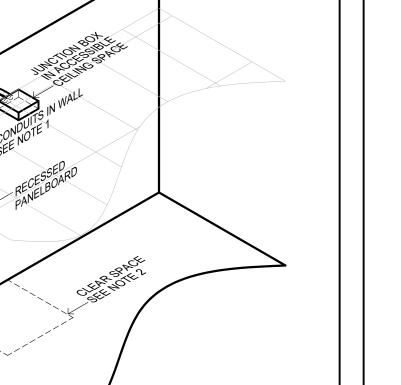
LENGTH OF WIRE RUN (FEET)

8 110 75 54 45 39 27 22 18 14 9 7 - - -

10 260 190 136 112 97 68 52 45 34 23 17 14 11 8 415 300 215 180 154 108 90 72 54 36 27 21 18

10 1040 760 544 448 388 272 208 180 136 92 68 52 44 34 8 | 1668 | 1200 | 860 | 720 | 616 | 432 | 360 | 288 | 216 | 44 | 108 | 84 | 72 | 54

13 18 25 30 35 50 60 75 100 150 200 250 300 400



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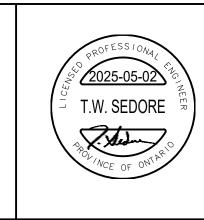
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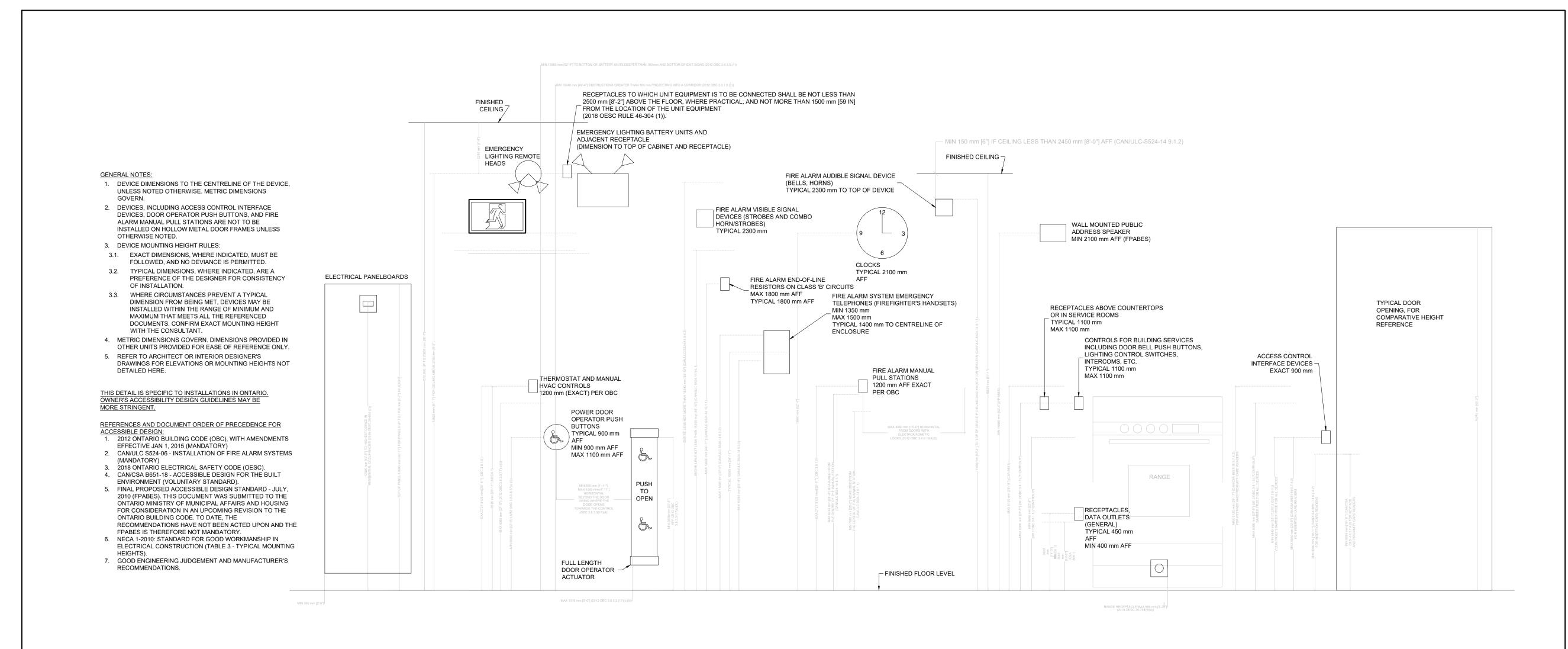


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ISSUED FOR TENDER 2025-05-02 ISSUED FOR DD CLIENT REVIEW 2025-04-11 ISSUED FOR DD CLIENT REVIEW

**ISSUE DATE:** 

ST ANDREW'S

SENIOR PUBLIC SCHOOL -AIR CONDITIONING UPGRADE

65 VICTORIA AVE. CAMBRIDGE, ON N1S 1X2

ELECTRICAL DETAIL SHEET No.2

AS NOTED CW REVIEWED BY: BD/TWS

SHEET NO:

ASSE	MBLIES SCHEDULE					
P - INTE	RIOR PARTITION AND FURRING ASSEMBLIES					
TYPE	DIAGRAM	DESCRIPTION	ASSEMBLY-SPECIFIC NOTES	PERFORM	IANCE	
		102mm STEEL STUDS		CATEGORY	REQUIRED	PROVIDED
P1		WITH 16mm GB (ONE SIDES)		FRR	-	-
Ť	Exclusive and a second	102mm NON-LOADBEARING STEEL STUD FRAMING @ 406mm O/C 16mm GB-1 GYPSUM BOARD		STC	-	-
		VAR FINISH, REFER TO FINISH PLANS				
C - SUSI	PENDED CEILING ASSEMBLIES					
TYPE	DIAGRAM	DESCRIPTION	ACCEMBLY CRECIFIC MOTES	DEDEODM	IANCE	
	5,7,6,7,4,111	DEGGINI HON	ASSEMBLY-SPECIFIC NOTES	PERFORM	ANCE	
		SUSPENDED LAY-IN ACOUSTICAL TILE CEILING	NOTE: ALL ACOUSTICAL TILE GRID SYSTEM SUPPORT	CATEGORY	REQUIRED	PROVIDED
C1	· · · · · · · · · · · · · · · · · · ·					PROVIDED -
C1		SUSPENDED LAY-IN ACOUSTICAL TILE CEILING	NOTE: ALL ACOUSTICAL TILE GRID SYSTEM SUPPORT FRAMING AND WIRE TOE HANGERS TO BE HOT-	CATEGORY		PROVIDED -
C1	ASSEMBLY (VIF)	SUSPENDED LAY-IN ACOUSTICAL TILE CEILING WITH SUPPORT GRID SYSTEM  VAR EXISTING STRUCTURE TO REMAIN  VAR MAIN BEAM AND CROSS TEE ACOUSTICAL TILE GRID SYSTEM SUPPORT FRAMING AS REQUIRED	NOTE: ALL ACOUSTICAL TILE GRID SYSTEM SUPPORT FRAMING AND WIRE TOE HANGERS TO BE HOT-DIPPED GALVNIZED.  NOTE: WIRE TIE HANGERS ARE NOT TO BE FASTENED BACK TO METAL ROOF DECKING. CONSTRACTOR TO PROVIDE ADDITIONAL FRAMING AS REQUIRED TO SUPPORT CEILING ASSEMBLY AND ASSOCIATED	<b>CATEGORY</b> FRR		-
C1		SUSPENDED LAY-IN ACOUSTICAL TILE CEILING WITH SUPPORT GRID SYSTEM  VAR EXISTING STRUCTURE TO REMAIN  VAR MAIN BEAM AND CROSS TEE ACOUSTICAL TILE	NOTE: ALL ACOUSTICAL TILE GRID SYSTEM SUPPORT FRAMING AND WIRE TOE HANGERS TO BE HOTDIPPED GALVNIZED.  NOTE: WIRE TIE HANGERS ARE NOT TO BE FASTENED BACK TO METAL ROOF DECKING. CONSTRACTOR TO PROVIDE ADDITIONAL FRAMING AS REQUIRED TO SUPPORT CEILING ASSEMBLY AND ASSOCIATED FIXTURES.	<b>CATEGORY</b> FRR		-
C1	EXISTING ASSEMBLY (VIF)	SUSPENDED LAY-IN ACOUSTICAL TILE CEILING WITH SUPPORT GRID SYSTEM  VAR EXISTING STRUCTURE TO REMAIN  VAR MAIN BEAM AND CROSS TEE ACOUSTICAL TILE GRID SYSTEM SUPPORT FRAMING AS REQUIRED //W WIRE TIE SUPPORTS	NOTE: ALL ACOUSTICAL TILE GRID SYSTEM SUPPORT FRAMING AND WIRE TOE HANGERS TO BE HOT-DIPPED GALVNIZED.  NOTE: WIRE TIE HANGERS ARE NOT TO BE FASTENED BACK TO METAL ROOF DECKING. CONSTRACTOR TO PROVIDE ADDITIONAL FRAMING AS REQUIRED TO SUPPORT CEILING ASSEMBLY AND ASSOCIATED	<b>CATEGORY</b> FRR		-
C1	ASSEMBLY (VIF)	SUSPENDED LAY-IN ACOUSTICAL TILE CEILING WITH SUPPORT GRID SYSTEM  VAR EXISTING STRUCTURE TO REMAIN  VAR MAIN BEAM AND CROSS TEE ACOUSTICAL TILE GRID SYSTEM SUPPORT FRAMING AS REQUIRED //W WIRE TIE SUPPORTS	NOTE: ALL ACOUSTICAL TILE GRID SYSTEM SUPPORT FRAMING AND WIRE TOE HANGERS TO BE HOTDIPPED GALVNIZED.  NOTE: WIRE TIE HANGERS ARE NOT TO BE FASTENED BACK TO METAL ROOF DECKING. CONSTRACTOR TO PROVIDE ADDITIONAL FRAMING AS REQUIRED TO SUPPORT CEILING ASSEMBLY AND ASSOCIATED FIXTURES.  NOTE REFER TO RCP FOR LOCAITONS AND	<b>CATEGORY</b> FRR		-
C1	EXISTING ASSEMBLY (VIF)	SUSPENDED LAY-IN ACOUSTICAL TILE CEILING WITH SUPPORT GRID SYSTEM  VAR EXISTING STRUCTURE TO REMAIN  VAR MAIN BEAM AND CROSS TEE ACOUSTICAL TILE GRID SYSTEM SUPPORT FRAMING AS REQUIRED //W WIRE TIE SUPPORTS	NOTE: ALL ACOUSTICAL TILE GRID SYSTEM SUPPORT FRAMING AND WIRE TOE HANGERS TO BE HOTDIPPED GALVNIZED.  NOTE: WIRE TIE HANGERS ARE NOT TO BE FASTENED BACK TO METAL ROOF DECKING. CONSTRACTOR TO PROVIDE ADDITIONAL FRAMING AS REQUIRED TO SUPPORT CEILING ASSEMBLY AND ASSOCIATED FIXTURES.  NOTE REFER TO RCP FOR LOCAITONS AND	<b>CATEGORY</b> FRR		-

### DOOR & FRAME NOTES

- REFER TO SPECIFICATIONS FOR FULL DESCRIPTION OF
- REFER TO ARCHITECTURAL FLOOR PLANS FOR DOOR
- SWING DIRECTION.
- REFER TO ELECTRICAL DOCUMENTS FOR ALL ADDITIONAL DOOR REQUIREMENTS.
- CONTRACTOR TO CONFIRM ALL FINISHES, LOCATIONS,

ALL DOOR, SCREEN, AND GLAZING TYPES.

- QUANTITIES, AND NOTIFY CONSULTANT OF ANY DISCREPANCIES.
- ALL DOORS IN FIRE SEPARATIONS REQUIRE DOOR CLOSERS REGARDLESS IF NOTED IN THE HARDWARE SCHEDULE.
- ALL EXIT DOORS TO HAVE HARDWARE IN CONFORMANCE TO O.B.C EXIT REQUIREMENTS. GENERAL CONTRACTOR TO COORDINATE INSTALLATION AND LOCATIONS WITH DOOR AND HARDWARE MANUFACTURER.
- ALL EXTERIOR DOORS TO BE INSULATED & HAVE THERMALLY BROKEN FRAMES. FILL FRAMES AND SPACE BETWEEN FRAMES AND ADJACENT MATERIALS W/ SPRAY FOAM INSULATION TO FULLY SEAL AGAINST ALL AIR INFILTRATION. PROVIDE WEATHERSTRIPPING AND THERMALLY-BROKEN THRESHOLDS AT ALL EXTERIOR DOORS, UNLESS NOTED OTHERWISE.
- ALL GLAZING AT INTERIOR DOORS AND SCREENS TO BE FULLY TEMPERED, UNLESS NOTED OTHERWISE.
- ALL GLAZING IN EXTERIOR OPENINGS TO BE INSULATED GLAZING UNITS. REFER TO WINDOW, CURTAIN WALL AND DOOR SCHEDULES, AS WELL AS SPECIFICATIONS FOR FULL DESCRIPTION.
- 10. PROVIDE ACOUSTIC SEALANT AND FILL FRAME INSULATION AT ALL DOORS AND SCREENS IN ACOUSTICALLY RATED WALL ASSEMBLIES.
- COORDINATE FRAME SETTING HEIGHTS WITH FLOOR FINISHES, REFER TO FINISH PLANS.
- 12. COORDINATE DOOR HARDWARE REQUIREMENTS WITH FRAME MANUFACTURER WHERE DOORS ARE LOCATED WITHIN AN ALUMINIUM FRAME SUCH AS CURTAIN WALL, WINDOW WALL, OR STOREFRONT GLAZING.
- COORDINATE HOLLOW METAL FRAME THROAT SIZING WITH INTERIOR PARTITIONS AS INDICATED ON THE ARCHITECTURAL FLOOR PLANS AND ASSEMBLIES SCHEDULE.
- COORDINATE HOLLOW METAL FRAME ANCHORS WITH INTERIOR PARTITIONS AS INDICATED ON THE ARCHITECTURAL FLOOR PLANS AND ASSEMBLIES SCHEDULE.
- PROVIDE MANUFACTURERS FLOOR ANCHOR STRAPS FOR ALL HOLLOW METAL JAMB FRAMES AND MULLION FLOOR ANCHORS FOR HOLLOW METAL MULLIONS. ANCHORS TO BE FIRE RATED TYPE.
- 16. SITE VERIFY AND COORDINATE EXISTING PARTITION THICKNESSES WITH FRAME THROAT WHEN INSTALLING NEW DOOR FRAMES WITHIN EXISTING CONSTRUCTION.

FOR FULL DESCRIPTION OF GLAZING TYPE

### DOOR MATERIAL LEGEND

- AL ALUMINUM AN CLEAR ANODIZED BATT INSULATION
- CF CLEAR FINISH HM HOLLOW METAL PI POLYISO INSULATION
- PN PAINT SCW SOLID CORE WOOD
- STAIN WD WOOD

### HARDWARE LEGEND

- ADO AUTOMATIC DOOR OPENER
  CH COAT HOOK
  CLO CLOSER
- CM CENTRE MULLION CS CARD SWIPE
- DOOR CONTACT DP DOOR PULL
- DS DOOR STOP ED PANIC BAR EXIT DEVICE
- EHO ELECTRIC HOLD OPEN EL ELECTRIC LATCH
- ESC ELECTRIC SCREAMER
- HO HOLD OPEN, MAGNETIC
- KP KICKPLATE, SS. PB PUSH BUTTON
- PH PANIC HARDWARE PHA PANIC HARDWARE W/ ALARM OVERRIDE
- PP PUSH / PULL DOOR SIGNAGE
- TH THRESHOLD WS WEATHER STRIPPING

# ASSEMBLY GENERAL NOTES

- FOR ALL ASSEMBLIES IN THE CONTRACT DOCUMENTS WITH A DESIGNATED LISTING FROM ONE OF THE TESTING AUTHORITIES (E.G. ULC) IT IS THE FULL RESPONSIBILITY OF THE CONTRACTOR TO INDEPENDENTLY RESEARCH AND PROVIDE THE COMPLETE PUBLISHED ASSEMBLY AS DESCRIBED BY THE ASSOCIATED TESTING ATHORITIES. THE DESCRIPTION OF THE ASSEMBLIES NOTED IN THE CONTRACT DRAWINGS ARE NOTED "AS BASIS OF DESIGN" AND MAY NOT REPRESENT THE FULL CRITERIA AS DEFINED BY THE TESTING AUTHORITIES.
- UNLESS OTHERWISE NOTED, ALL PARTITION (INCLUDING BUT NOT LIMITED TO ALL COMPONENTS THAT MAKE UP THE PARTITION) AND FURRING ASSEMBLIES ARE TO EXTEND FROM STRUCTURAL DECK/SLAB TO U/S OF STRUCTURAL DECK/SLAB ABOVE.
- IN ADDITION TO THIS PAGE, REFER ALSO TO FIRE SEPARATION DRAWINGS FOR REQUIRED FIRE SEPARATION RATINGS. THE CONTRACTOR IS TO ENSURE THE CONTINUITY OF ALL FIRE SEPARATIONS AS REQUIRED AND PROVIDE ULC
- LISTED FIRESTOPPING SYSTEMS FOR ALL CONDITIONS. THE CONTRACTOR IS TO PROVIDE ULC-LISTED FIRESTOP SYSTEMS AS REQUIRED FOR ALL BUILDING SERVICE PENETRATIONS THROUGH RATED

ASSEMBLIES AND TO ENSURE THE CONTINUITY OF RATED ASSEMBLIES.

- COORDINATE WITH MECHANICAL AND ELECTRICAL CONTRACT DOCUMENTS. THE CONTRACTOR IS TO PROVIDE ENGINEERED SHOP DRAWINGS, SIGNED AND SEALED BY A STRUCTURAL P.ENG LICENSED WITHIN THE PROVINCE OF ONTARIO FOR ALL STEEL STUD FRAMING DENOTED AS LOAD BEARING METAL STUDS. FOR NON-LOAD BEARING STUDS WALLS, CONTRACTOR TO ENGINEER FRAMING SYSTEM TO LIMIT DEFLECTION AS REQUIRED BY WALL FINISHES.
- THE CONTRACTOR IS TO PROVIDE ENGINEERED SHOP DRAWINGS, SIGNED AND SEALED BY A STRUCTURAL P.ENG LICENSED WITHIN THE PROVINCE OF ONTARIO FOR ALL EXTERIOR CLADDING PANEL SYSTEMS, INCLUDING ALL ASSOCIATED SUPPORT FRAMING AND CONNECTIONS. REFER TO SPECIFICATION

REFER TO SPECIFICATION.

- THE CONTRACTOR IS TO PROVIDE ENGINEERED SHOP DRAWINGS SIGNED AND SEALED BY A STRUCTURAL P.ENG FOR ALL THE LOAD BEARING STEEL STUD AND STEEL STUD FRAMING AS REQUIRED TO SUPPORT ALL EXTERIOR CURTAIN WALL, STOREFRONT GLAZING AND PUNCH WINDOW SYSTEMS AND ALL INTERIOR SCREENS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE STUD SPACING AND CONFIGURATION AS REQUIRED TO MEET CURTAIN WALL, STOREFRONT, PUNCH WINDOW, AND INTERIOR SCREEN SUPPLIER REQUIREMENTS. REFER TO SPECIFICATION.
- CONTRACTOR TO PROVIDE TILE BACKER IN LIEU OF GYPSUM BOARD AT ALL ASSEMBLIES TO RECEIVE TILE FINISHES, REFER TO FINISH PLANS. REFER TO
- SPECIFICATIONS. IN AREAS WITH HIGH VAPOUR CONTENT (INCLUDING BUT NOT LIMITED TO ROOMS ......) CONTRACTOR TO PROVIDE MOISTURE AND MOULD-RESISTANT GYPSUM BOARD IN LIEU OF REGULAR GYPSUM BOARD. THE CONTRACTOR IS TO VERIFY THAT THE MOISTURE AND MOULD-RESISTANT GYPSUM BOARD MEETS

ALL THE ULC RATING REFERENCED IN THE ASSEMBLY SCHEDULE.

- CONTRACTOR TO PROVIDE CONT. ACOUSTICAL SEALANT (BOTH SIDES) AT TOP AND BOTTOM OF ALL INTERIOR STUD AND GPYSUM BOARD PARTITIONS. PROVIDE ULC-LISTED FIRE STOPPING SEALANT AT ALL RATED PARTITIONS AS REQUIRED. IN ADDITION TO THIS PAGE, REFER ALSO TO FIRE SEPARATION
- CONTRACTOR TO COORDINATE ACCESS PANELS LOCATED WITHIN SUSPENDED GYPSUM BOARD CEILING ASSEMBLIES TO BE PAINTED OUT TO MATCH THE SURROUNDING CEILING FINISH. CONTRACTOR TO PROVIDE ULC-LISTED ACCESS PANEL WHERE PANEL IS LOCATED IN A RATED CEILING. IN ADDITION TO THIS PAGE, REFER ALSO TO FIRE SEPARATION DRAWINGS. ALL ACCESS PANEL LOCATIONS IDENTIFIED IN THE MECHANICAL DOCUMENTS ARE TO BE
- CONTRACTOR TO COORDINATE ALL ACCESS PANELS LOCATED WITHIN EXTERIOR SOFFITS TO BE PAINTED OUT TO MATCH THE SURROUNDING SOFFIT
- UNLESS NOTED OTHERWISE, ASSEMBLIES ABOVE OR BELOW DOORS.

WINDOWS, EXTERIOR OPENINGS AND INTERIOR SCREENS ARE TO BE THE SAME

CONFIRMED ON SITE WITH THE ARCHITECT PRIOR TO INSTALLATION.

AS THE TYPE DENOTED ON EITHER SIDE CONTRACTOR TO PROVIDE 19mm FIRE RATED PLYWOOD BLOCKING AND STUD REINFORCING IN WALLS FOR INSTALLATION OF ALL ELEMENTS NEEDING BLOCKING/REINFORCEMENT, INCLUDING BUT NOT LIMITED TO ALL FIXTURES, PLUMBING ACCESSORIES, ADULT CHANGE TABLES, MILLWORK, EQUIPMENT, ELECTRIC PANELS, ROOF ACCESS LADDER ECT. CONTRACTOR TO DESIGN/BUILD ALL BLOCKING AND STUD REINFORCING AS REQUIRED. FULLY COORDINATE ALL ADDITIONAL SUPPORT REQUIRED FOR ANCHORAGE OF

MECHANICAL EQUIPMENT OR DUCTS AND ELECTRICAL FIXTURES.

- ALL R AND RSI VALUES SHOWN ARE NOMINAL. REFER TO SPECIFICATION FOR FULL LISTING OF INSULATION TYPES AND WEATHER BARRIER TYPES.
- ALL GWB WITHIN 1200 OF FF TO BE ABUSE RESISTANT. CONTRACTOR TO COORDINATE.
- CONTRACTOR TO PROVIDE ALL PLUMBING CHASES AND MECHANICAL SHAFTS IN ADDITION TO ASSEMBLIES. CONTRACTOR TO COORDINATE REQUIRED DIMENSIONS AND REVIEW W/ ARCHITECT WHEN LAYING OUT WALLS.
- CONTRACTOR TO MAINTAIN AND MAKE GOOD ALL EXISTING FIRE SEPARATIONS AND FIRE RESISTANCE RATINGS IMPACTED BY THE WORK.
- IF FLOOR DRAINS ARE LOCATED IN A ROOM CONTRACTOR TO COORDINATE SLOPING ENTIRE FLOOR TOWARD THE DRAIN. THERE WILL BE NO FLAT FLOOR SURFACE IN THE ROOM WITH A REQUIRED FLOOR DRAIN WHERE WATER CAN PUDDLE, FLOOR TO SLOPE A MINIMUM OF 2%, THE CONTRACTOR TO REFERENCE THE MECHANICAL DOCUMENTS TO DETERMINE WHICH ROOMS HAVE FLOOR DRAINS. THE CONTRACTOR IS RESPONSIBLE TO REPAIR ANY FLOORS THAT PUDDLE WATER AND/ OR DO NOT DIRECT WATER TO THE PROPER FLOOR DRAIN.
- THE CONTRACTOR SHALL CONFIRM THE EXISTING WALL, FLOOR, CEILING, AND ROOF ASSEMBLIES ON SITE AND SHOULD NOT RELY ON THE CONTRACT DOCUMENTS AND AS-BUILT DRAWINGS TO BASE ANY DECISIONS REQUIRED FOR ANY WORK TO THESE EXISTING ELEMENTS
- CONTRACTOR TO REPAIR EXISTING EXTERIOR WALL VAPOUR OR AIR BARRIERS DISTURBED BY THE WORK. ADVISE CONSULTANT OF INSTANCES WHERE THIS IS
- CONTRACTOR TO COORDINATE MINIMUM STUD SPACE REQUIRED TO SUPPORT
- EQUIPMENT AS NOTED ON ARCHITECTURAL AND CONSULTANT DRAWINGS. CONTRACTOR TO ISOLATE ALL MECHANICAL PIPES, DUCTS, AND EQUIPMENT
- FROM INTERIOR PARTITIONS TO AVOID ACOUSTIC NOISE TRANSFER.
- CONTRACTOR TO MAINTAIN CONTINUITY OF BUILDING ENVELOPE AIR AND AIR/VAPOUR BARRIER AT TRANSITIONS AND PENETRATIONS.

SERVICE SPACE WALLS (OBC 3.6.2.6(2) & (3)).

CONTRACTOR TO COORDINATE VERTICAL SERVICE SPACES THAT DO NOT EXTEND THROUGH THE ROOF AND/OR DO NOT TERMINATE AT HORIZONTAL FIRE RATED ASSEMBLY (ROOF, FLOOR, MEZZANINE, ECT.) MUST BE ENCLOSED AT THE TOP AND/OR BOTTOM WITH A ULC CONSTRUCTION ASSEMBLY HAVING A FIRE RESISTANCE RATING NOT LESS THAN THAT REQUIRED FOR THE VERTICAL



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### MEMBRANE AND FLASHING LEGEND

FWP-1 FOUNDATION WATERPROOFING MEMBRANE

### INSULATION LEGEND

-----

INS-1 BATT ACOUSTIC INSULATION

- GYPSUM BOARD AND SHEATHING LEGEND
  - 16mm GYPSUM BOARD 16mm TYPE "X" GYPSUM BOARD
  - 16mm GYPSUM BOARD, MOULD RESISTANT
- 16mm CEMENT BOARD 16mm TILE BACKER BOARD
- INTERIOR GRADE PLYWOOD

**ISSUE DATE:** 

2 05/02/2024 ISSUED FOR TENDER 1 11/14/2023 DESIGN DEVELOPMENT

DESCRIPTION

## PROJECT:

NO. DATE

ST ANDREW'S SENIOR PUBLIC **SCHOOL** 

65 VICTORIA AVE. CAMBRIDGE, ON N1S 1X2

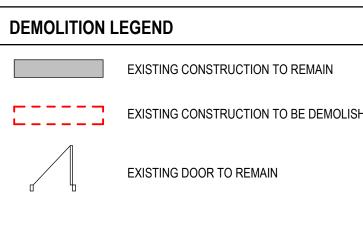
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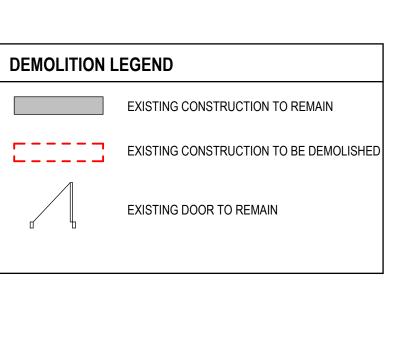
ASSEMBLIES SCHEDULE, DOOR SCHEDULE, NOTES, AND LEGENDS

DRAWN BY:

**REVIEWED BY:** 

SHEET NO: A003





### DEMOLITON GENERAL NOTES

- THE DEMOLITION DRAWINGS ILLUSTRATE A GENERAL SCOPE OF WORK. IT IS THE FULL RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE FULL SCOPE OF DEMOLITION REQUIRED USING EXISTING SITE CONDITIONS AND THE COMPLETE CONTRACT DOCUMENT SETS INCLUSIVE OF ALL DISCIPLINES INCLUDING BUT NOT LIMITED TO ARCHITECTURAL, ELECTRICAL, MECHANICAL, CIVIL, LANDSCAPE, AND STRUCTURAL TO ACHIEVE THE FINAL SCOPE OF WORK.
- ALL DIMENSIONS ARE TO BE VERIFIED ON SITE. NO DIMENSIONS ARE TO BE INFERRED FROM THE DEMOLITION DRAWINGS. DRAWINGS ARE NOT TO BE SCALED FOR CONSTRUCTION AND/OR DEMOLITION PURPOSES. DRAWINGS ARE IN METRIC. DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS OTHERWISE
- CONTRACTOR TO MAKE GOOD ALL WALLS, CEILINGS AND FLOORING TO REMAIN THAT ARE AFFECTED BY DEMOLITION. WHERE EXISTING SURFACES ARE DISTURBED MAKE GOOD EXISTING SURFACE OR ENTIRE PLANE OF SURFACE BACK TO NEAREST CORNER OR CHANGE IN MATERIAL.
- 4. CONTRACTOR TO SUPPLY AND INSTALL ALL NECESSARY HOARDING TARPS, ETC TO PROTECT WORK AND MAINTAIN A DUST FREE ENVIRONMENT IN SURROUNDING AREAS.
- CONTRACTOR TO MAKE GOOD ALL JUNCTIONS BETWEEN EXISTING STRUCTURES IDENTIFIED AS TO BE REMOVED AND EXISTING STRUCTURES IDENTIFIED AS
- PARTITIONS AND WALLS SHALL BE REMOVED FULL HEIGHT TO STRUCTURE ABOVE.

TO REMAIN.

- REMOVAL OF EXISTING FLOOR FINISHES SHALL INCLUDE MORTAR BED, UNDERLAYMENT OR OTHER CLEAVAGE MEMBRANES, UNDERPAD, BASE, FLOOR MOULDING AND TRANSITION STRIPS TO EXISTING STRUCTURE BELOW.
- REMOVAL OF EXISTING CEILING FINISHES SHALL INCLUDE ALL CEILING LAYERS AND RELATED MATERIAL TO EXISTING STRUCTURE ABOVE INCLUDING T-BAR, HANGERS AND LIGHTING WHERE APPLICABLE. REMOVE ALL DOUBLE CEILINGS, WHERE OLDER CEILING REMAINS OBSCURED BY EXISTING CEILING. REMOVE EXISTING BATT INSULATION.
- 9. CONTRACTOR TO VERIFY AND GET AUTHORIZATION FROM MUNICIPAL AUTHORITIES, CONSULTANTS AND OWNER BEFORE DISCONNECTING ANY SERVICES.
- 10. CONTRACTOR TO COORDINATE WITH STRUCTURAL, MECHANICAL & ELECTRICAL DOCUMENTS ALL NEW OPENINGS TO BE CUT INTO THE EXISTING AND NEW
- PROVIDE WASTE AUDIT REPORTS IN CONFORMANCE WITH AUTHORITIES HAVING JURISDICTION AS REQUIRED.
- 12. REFER TO DEMOLITION AND REMOVALS SPECIFICATION

FOR ADDITIONAL REQUIREMENTS.

- 13. THE ARCHITECTURAL DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE AS-BUILT, STRUCTURAL, ELECTRICAL, MECHANICAL CONSULTANTS DOCUMENTS ANY DISCREPANCIES ARE TO BE REPORTED TO THE ARCHITECT PRIOR TO ANY EXECUTION OF RELATED WORK. REFER TO ELECTRICAL & MECHANICAL DEMOLITION PLANS AND COORDINATE.
- THE CONTRACTORS SHALL ENSURE THAT THE LOCATIONS OF ALL SERVICES ARE IDENTIFIED PRIOR TO THE COMMENCEMENT OF WORK AND EXCAVATIONS. THE CONTRACTOR IS FULLY RESPONSIBLE TO REPAIR ANY DAMAGE TO SERVICES THEY HAVE COMMITTED.
- ALL STRUCTURAL COMPONENTS TO BE TAKEN OFF THE STRUCTURAL DOCUMENTS. NO STRUCTURAL DESIGN INFORMATION SHALL BE INFERRED FROM THE ARCHITECTURAL DRAWINGS.
- 16. THE CONTRACTOR SHALL NOT USE THIS DRAWING TO INFER ANY SITE DIMENSIONS BUT SHALL USE THE OFFICIAL SURVEY.
- 17. ALL GEODETIC INFORMATION ON THIS PLAN IS FOR REFERENCE ONLY.

### NOTES ON DESIGNATED SUBSTANCES

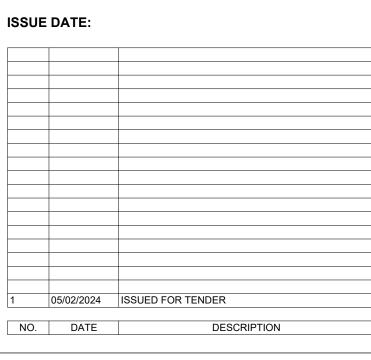
- 1. IN NO WAY SHOULD THE CONTRACTOR ASSUME THE SITE/BUILDING IS 100% FREE OF DESIGNATED SUBSTANCES AND AS SUCH THE CONTRACTOR SHOULD TAKE EVERY PRECAUTION WHEN WORKING IN THE BUILDINGS.
- SHOULD THE CONTRACTOR COME IN CONTACT WITH ANY MATERIALS THAT LOOK SUSPICIOUS THEY SHOULD IMMEDIATELY STOP WORK, BOARD THE AREA OFF, TARP WITH PLASTIC AND SEAL, AND CONTACT THE CONSULTANTS IMMEDIATELY. THE OWNERS ENVIRONMENTAL CONSULTANT WILL BE ENGAGED TO INVESTIGATE FURTHER.

### DEMOLITION KEYNOTES



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### PROJECT:

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SHEET TITLE:

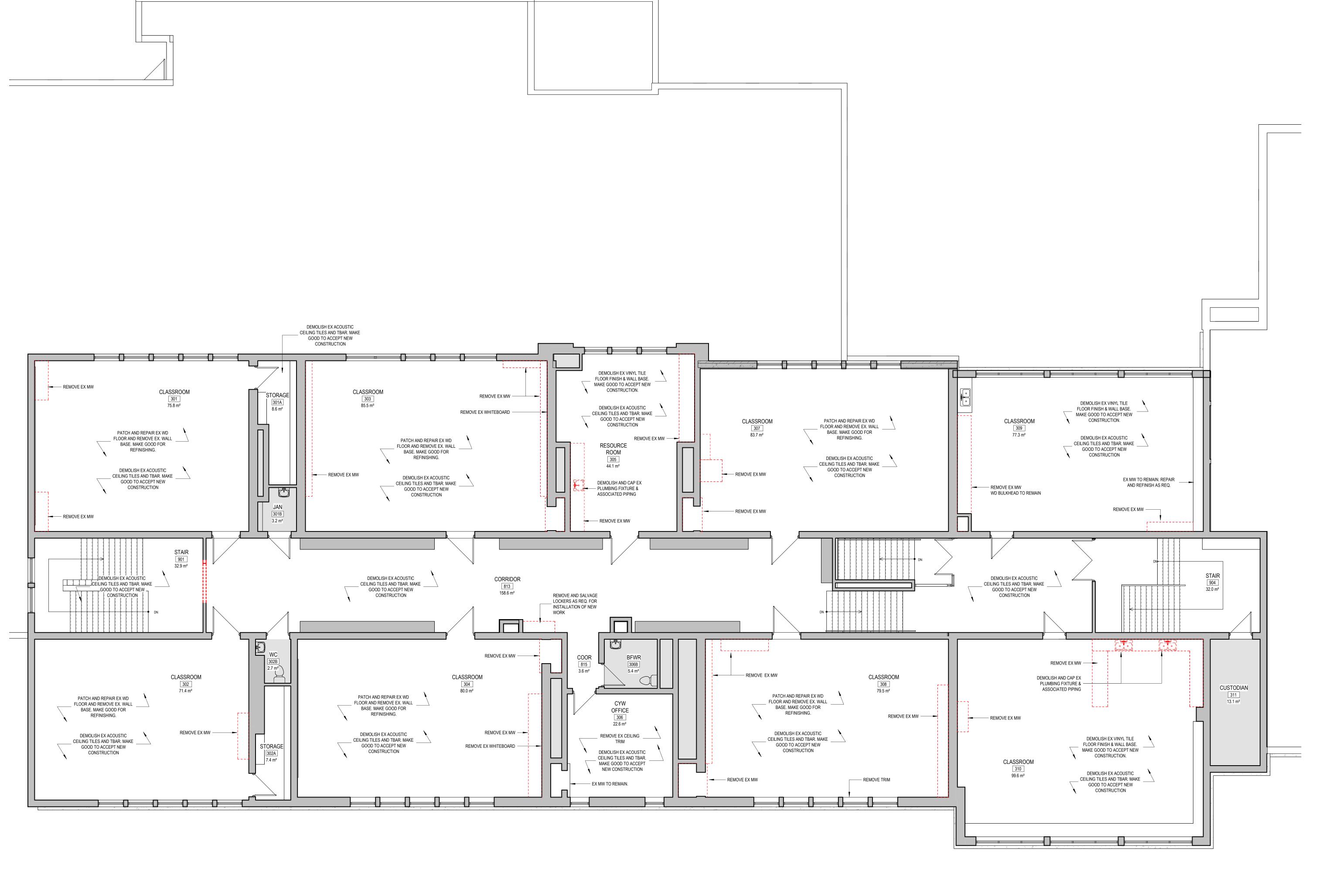
SECOND FLOOR **DEMOLITION PLAN** 

As indicated

PROJECT NO: DRAWN BY:

**REVIEWED BY:** Checker SHEET NO:

A051





### FLOOR PLAN GENERAL NOTES

- ALL DIMENSIONS ARE TAKEN TO THE FINISH FACE OF THE INTERIOR PARTITIONS AND EXTERIOR WALLS, UNLESS NOTED OTHERWISE.
- ALL DIMENSIONS AT INTERIOR DOORS ARE TAKEN TO THE OUTSIDE EDGE

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the architect and issued for such purpose.

- LOCATE ROUGH OPENINGS OF INTERIOR DOORS 100mm FROM INSIDE FACE
- IF INTERSECTING PARTITION, UNLESS NOTED OTHERWISE.
- CLOSET DOORS TO BE CENTERED ALONG INTERIOR CLOSET WIDTH, UNLESS NOTED OTHERWISE.

OF DOOR FRAME, UNLESS NOTED OTHERWISE.

- ALL DIMENSIONS AT INTERIOR SCREENS ARE TAKEN TO THE OUTSIDE EDGE OF THE SCREEN FRAME, UNLESS NOTED OTHERWISE.
- ALL DIMENSIONS AT INTERIOR SCREENS ARE TAKEN TO THE OUTSIDE

ARCHITECTURAL FOR LOCATION ONLY.

FINISHES, UNLESS NOTED OTHERWISE.

- EDGE OF SCREEN FRAME, UNLESS NOTED OTHERWISE. REFER TO MECHANICAL DOCUMENTS AND SPECIFICATIONS FOR FULL DESCRIPTION OF FLOOR DRAIN AND AREA DRAIN TYPES, REFER TO
- REFER TO LANDSCAPE DOCUMENTS FOR EXTERIOR HARDSCAPE AND PLANTING ELEMENTS, AND PAVING TERMINATION DETAILS ADJACENT TO
- THE BUILDING. REFER TO SPECIFICATIONS FOR THE TYPICAL FINISH OF CERTAIN MATERIALS, FINISH TYPES, TRANSITION STRIPS, AND CORNER
- PROTECTION. PROVIDE CORNER PROTECTION AT ALL OUTSIDE CORNERS OF WALL TILE
- 12. SET FLOOR DRAINS TO ENSURE DRAIN COVERS ARE FLUSH WITH ADJACENT FLOOR FINISHES.
- EXTEND FLOOR FINISHES UNDER ALL FURNITURE, FIXTURES, EQUIPMENT, ACCESSORIES, AND MILLWORK.
- 14. EXTEND WALL FINISHES BEHIND ALL FURNITURE, FIXTURES, EQUIPMENT, ACCESSORIES, AND MILLWORK.
- PROVIDE WALL BASE FINISH ON ALL MILLWORK BASES. UNLESS NOTED OTHERWISE, MILLWORK BASE TO MATCH ADJACENT WALL BASE FINISH.
- 16. ALL ELEVATOR CAB FINISHES, EXCEPT FLOOR FINISH TO BE PROVIDED BY ELEVATOR CAB MANUFACTURER. PROVIDE FLOOR FINISH IN ELEVATOR CAB TO MATCH FLOOR FINISH OF ADJACENT GROUND FLOOR FINISH, UNLESS NOTED OTHERWISE.
- 17. FINISH WALLS PRIOR TO INSTALLATION OF ALL WALL-MOUNTED GRILLES, OUTLET COVERS, AND FIXTURES.
- 18. ALL EXPOSED MECHANICAL AND ELECTRICAL SERVICES TO BE PAINTED UNLESS OTHERWISE NOTED. ALLOW FOR TWO COLOURS UNLESS NOTED OTHERWISE.
- PAINTING OF SPRINKLER AND STANDPIPE SYSTEMS TO CONFORM TO NFPA-13, NFPA-14, AND THE REQUIREMENTS OF ALL AUTHORITIES HAVING
- PAINTING OF NATURAL GAS LINES TO CONFORM TO TSSA GUIDELINES, AND THE REQUIREMENTS OF ALL AUTHORITIES HAVING JURISDICTION.
- PAINTING OF ALL BELOW-GRADE PARKING AREAS TO CONFORM TO THE REQUIREMENTS OF THE LOCAL AUTHORITY HAVING JURISDICTION. WHERE NO LOCAL REQUIREMENTS EXIST, PAINTING ALL BELOW-GRADE PARKING AREAS TO CONFORM TO TORONTO MUNICIPAL PROPERTY STANDARDS.
- 22. WHERE PAINT IS INDICATED OVER INTUMESCENT COATINGS, ENSURE COMPATIBILITY OF PAINT WITH PROVIDED INTUMESCENT COATING
- 23. REFER TO WASHROOM PLANS AND INTERIOR ELEVATIONS FOR WASHROOM FINISHES.
- 24. REFER TO INTERIOR ELEVATIONS FOR MORE DETAIL ON EXTENT OF
- WHEN TRANSITION BETWEEN DISSIMILAR FLOOR FINISHES IS SHOWN AT DOOR, LOCATE TRANSITION ON CENTERLINE OF CLOSED DOOR LEAF.
- TO PATCH AND REPAIR ALL FINISHES AFFECTED BY MECHANICAL AND ELECTRICAL SCOPE OF WORK AND DEMOLITIONS.
- REMOVE EXISTING PROJECTOR SCREENS IN EACH CLASSROOM FOR WORK AND REMOUNT WHEN COMPLETE

### FLOOR PLAN LEGEND

EXISTING WALL TO REMAIN

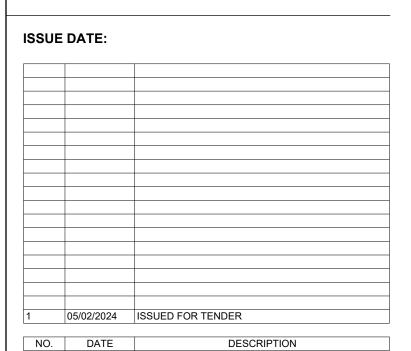
EXISTING FLOOR TO REMAIN

NEW CONSTRUCTION

EXISTING DOOR TO REMAIN

NEW DOOR (OR RELOCATED DOOR)

FLOOR PLAN KEYNOTES



PROJECT:

ST ANDREW'S SENIOR PUBLIC SCHOOL

65 VICTORIA AVE. CAMBRIDGE, ON N1S 1X2

SHEET TITLE: SECOND FLOOR

PLAN

REVIEWED BY:

SHEET NO:

A101



1 A110 1 : 75

### ROOF GENERAL NOTES

ALL DATUMS ARE REFERENCED TO T/O F/F GROUND
 UNLESS OTHERWISE NOTED

REFER TO ROOF DETAILS FOR ALL MECHANICAL PENETRATIONS THROUGH ROOF MEMBRANE



NEW ROOF

# ROOF PLAN KEYNOTES

NEW ROOF TO TIE INTO EXISTING MEMBRANES AND BARRIERS

02 EX ROOF DRAIN



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ISSUE	ISSUE DATE:								
2	05/02/2024	ISSUED FOR TENDER							
1	11/14/2023	DESIGN DEVELOPMENT							
NO.	DATE	DESCRIPTION							

PROJECT:

ST ANDREW'S SENIOR PUBLIC SCHOOL

65 VICTORIA AVE. CAMBRIDGE, ON N1S 1X2

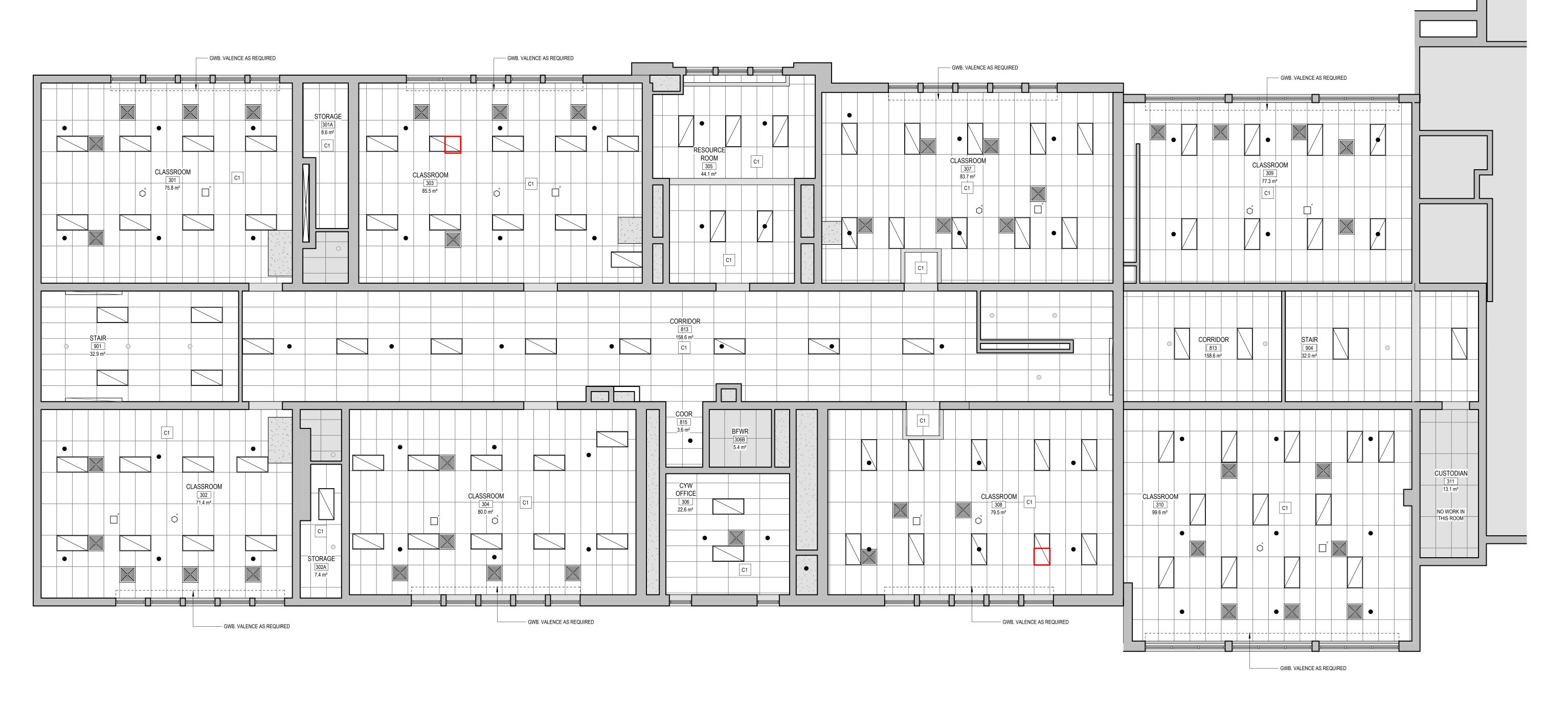
SHEET TITLE: ROOF LEVEL PLAN

DRAWN BY:

SHEET NO:

REVIEWED BY:

A110



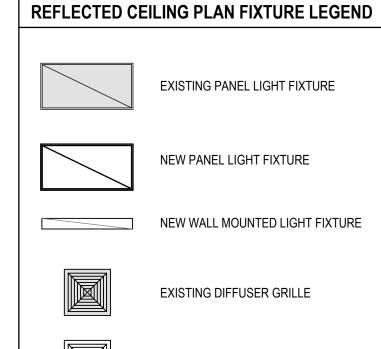
### REFLECTED CEILING PLAN GENERAL NOTES

- REFER TO MECHANICAL DOCUMENTS AND SPECIFICATIONS FOR FULL DESCRIPTION OF DIFFUSER TYPES AND QUANTITIES, REFER TO ARCHITECTURAL FOR LOCATION ONLY.
- REFER TO MECHANICAL AND ELECTRICAL DOCUMENTS FOR OTHER ITEMS TO BE INCORPORATED BUT NOT SHOWN ON THE ARCHITECTURAL REFLECTED CEILING PLAN. IF SUCH ITEMS ARE DRAWN IN ARCHITECTURAL DRAWINGS, IT IS FOR LOCATION ONLY.
- REFLECTED CEILING PLANS ARE TO BE READ IN CONJUNCTION WITH DETAILS AND DRAWINGS SHOWN ELSEWHERE WITHIN THE CONTRACT DOCUMENTS. IN THE EVENT OF DISCREPANCIES THE MORE STRINGENT REQUIREMENTS GOVERN (IE. GYPSUM BULKHEADS SHOWN ON REFLECTED CEILING PLANS MAY NOT APPEAR IN BUILDING SECTIONS BUT ARE REQUIRED TO BE INCORPORATED.
- UNLESS NOTED OTHERWISE: ALL INTERIOR PARTITION ASSEMBLIES AND BULKHEADS TO CONTINUE TO U/S OF FLOOR SHEATHING/DECK/SLAB/ AND ROOF SHEATHING/DECK/SLAB, WITH U/S OF BULKHEADS A MIN OF 25mm BELOW ADJACENT ACOUSTIC TILE
- ALL EXPOSED MECHANICAL AND ELECTRICAL SERVICES AND STRUCTURE TO PE PAINTED. REFER TO MECHANICAL AND ELECTRICAL DOCUMENTS FOR SPECIFIC EXCLUSIONS. ALLOW FOR TWO COLOURS FROM MANUFACTURES FULL RANGE, UNLESS OTHERWISE NOTED.
- 6. COORDINATE THE HEIGHT OF BULKHEADS WITH CEILING HEIGHTS AND INTERIOR DETAILS THROUGHOUT.
- ALL BULKHEADS CONTAINING MECHANICAL AND/OR ELECTRICAL ELEMENTS (FOR EXAMPLE. AIR DIFFUSERS), TO BE FRAMED AND FURRED ACCORDINGLY TO ALLOW FOR CLEARANCES AND PASSAGE OF ALL SUCH ELEMENTS.
- PROVIDE ADDITIONAL FRAMING AND HANGERS AS REQUIRED TO BRIDGE AROUND INTERFACES, INCLUDING BUT NOT LIMITED TO MECHANICAL, ELECTRICAL, STRUCTURAL, AND PARTITIONS.
- 9. CEILING ACCESS PANELS: ABOVE SUSPENDED CEILINGS, LOCATE MECHANICAL AND ELECTRICAL ITEMS THAT NEED ACCESS, WITHIN 600mm HORIZONTALLY AND 1000mm VERTICALLY FROM ALL CEILING ACCESS PANELS.
- CONTRACTOR TO PROVIDE CONDUIT LAYOUT SHOP DRAWINGS FOR ALL SURFACE MOUNTED CONDUIT AT EXPOSED CEILING LOCATIONS, AND EXPOSED COLUMN LOCATIONS, FOR CONSULTANT REVIEW PRIOR TO INSTALLATION. RUN CONDUIT HIDDEN ALONG BEAM LENGTHS AND BETWEEN JOISTS IN CAVITY. BENDS TO BE 90 DEGREES.

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**NEW DIFFUSER GRILLE** 

EXISTING SPRINKLER HEAD, SEE MECHANICAL DWGS. NEW SPRINKLER HEAD, SEE

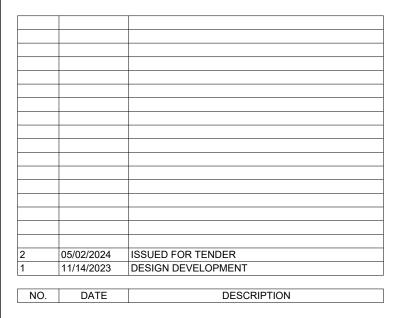
> EX. REINSTATED AUDIO SYSTEM, SEE ELECTRICAL

MECHANICAL DWGS.

EX. REINSTATED PROJECTOR SYSTEM, SEE ELECTRICAL DWGS.

# REFLECTED CEILING PLAN LEGEND EXISTING WALL TO REMAIN

EXISTING CEILING TO REMAIN



## PROJECT: ST ANDREW'S SENIOR PUBLIC SCHOOL

**ISSUE DATE:** 

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SECOND FLOOR REFLECTED CEILING PLAN

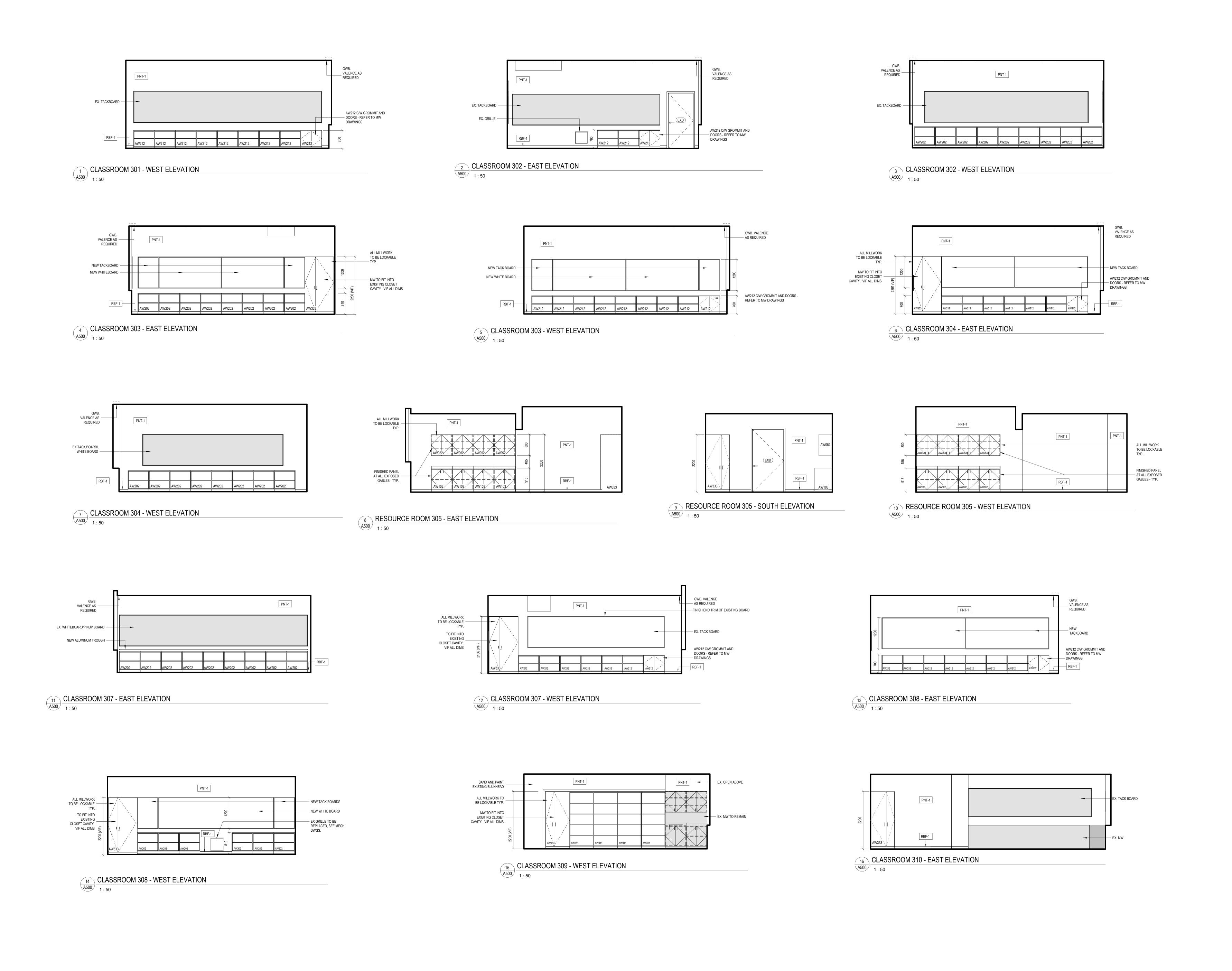
PROJECT NO: DRAWN BY:

SHEET NO:

**REVIEWED BY:** Checker

A120

1 A120 SECOND FLOOR RCP 1:75





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ST ANDREW'S
SENIOR PUBLIC
SCHOOL

65 VICTORIA AVE. CAMBRIDGE, ON N1S 1X2

INTERIOR ELEVATIONS

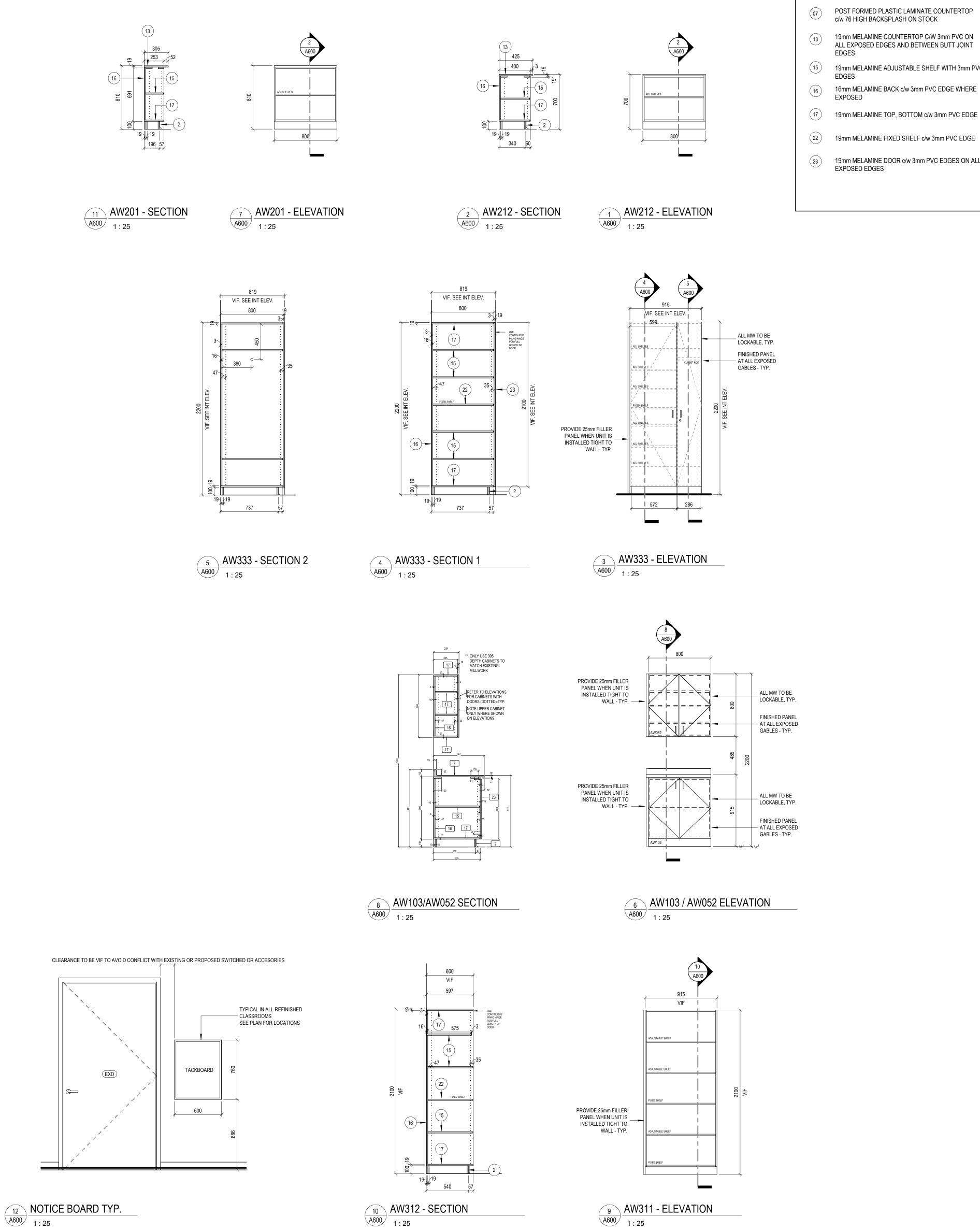
PROJECT NO: 22988

SCALE: 1:50

DRAWN BY: Author

REVIEWED BY: Checker

A500



### MILLWORK MATERIAL LEGEND

- 100 RESILIENT BASE TOE KICK ON 19 VENEER CORE PLYWOOD
- O7 POST FORMED PLASTIC LAMINATE COUNTERTOP C/w 76 HIGH BACKSPLASH ON STOCK
- 19mm MELAMINE COUNTERTOP C/W 3mm PVC ON ALL EXPOSED EDGES AND BETWEEN BUTT JOINT
- 19mm MELAMINE ADJUSTABLE SHELF WITH 3mm PVC
- 16 16mm MELAMINE BACK c/w 3mm PVC EDGE WHERE EXPOSED
- 19mm MELAMINE TOP, BOTTOM c/w 3mm PVC EDGE
- 19mm MELAMINE DOOR c/w 3mm PVC EDGES ON ALL EXPOSED EDGES

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1 05/02/2024 ISSUED FOR TENDER

DESCRIPTION

PROJECT:

NO. DATE

**ISSUE DATE:** 

ST ANDREW'S SENIOR PUBLIC SCHOOL

65 VICTORIA AVE. CAMBRIDGE, ON N1S 1X2

SHEET TITLE: MILLWORK

PROJECT NO: REVIEWED BY: Checker

SHEET NO:

A600