

# Addendum # 4 Bid Opportunity: 25-7748-RFT - St. Andrew's Public School 3rd Floor Classroom Refinishing Closing Date: Wednesday, May 21, 2025 2:00 PM

The following issued by the Board shall form part of the Bid / Proposal Solicitation document. The revisions and additions noted herein along with any attachments shall be read in conjunction with all other related documents. This Addendum shall, take precedence over the previously issued documents where differences occur. Receipt of this addendum must be acknowledged in the Bidding System, bids&tenders.

If you have already submitted a Bid / Proposal, it will be automatically withdrawn as a result of this addendum. You must resubmit the Bid / Proposal acknowledging all addenda and revising your Bid / Proposal to comply with all addenda.

Please refer to the next pages.



#### **LGA Architectural Partners**

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## Addendum #4

**Project**: WRDSB St Andrews, 65 Victoria Avenue, Cambridge, ON N1S 1X2

**Project No.**: 22988

**Date**: 16 May, 2025

The following information supplements and/or supersedes the bid documents issued on **May 02**, **2025**.

This Addendum forms part of the contract documents and is to be read, interpreted, and coordinated with all other parts. The cost of all contained herein is to be included in the contract sum. The following revisions supersede the information contained in the original drawings and specifications issued for the above-named project to the extent referenced and shall become part thereof. Acknowledge receipt of this Addendum by inserting its number and date on the Tender Form. Failure to do so may subject the Bidder to disqualification.

#### Addenda Documents attached herein.

- 1. Addendum E1, Produced by Quasar Consulting Group, dated 05/15/2025.
- 2. Sheet A120 Second Floor Reflected Ceiling Plan, dated 05/16/2025.
- 3. Sheet A110 Roof Plan, dated 05/16/2025.

#### **Specifications:**

N/A

#### **Drawings:**

## **Electrical drawings**

1. Refer to Addendum E1, dated 05/15/2025, issued here.

## **Architecture drawings**

- 1. A120 Second Floor Reflected Ceiling Plan
  - **DELETE** A120 Second Floor Reflected Ceiling Plan, dated 05/02/2025;

**ADD** in lieu A120 Second Floor Reflected Ceiling Plan, issued here, dated 05/16/2025; REVISIONS:

- Addition and rearrangement of lights in Stair 904;
- 2. A110 Roof Level Plan

**DELETE** A110 Roof Level Plan, dated 05/02/2025;

**ADD** in lieu A110 Roof Level Plan, issued here, dated 05/16/2025; REVISIONS:

- Removal of 'new roof' note from roof legend



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## **Clarifications:**

1. Question: Roof Plan A110 – The roof legend shows diagonal hatching identifying new roof areas but is not shown on the roof plan itself. Please confirm that the only areas that require roof patching are the boxes around the condensers on the low and high roofs and the piping doghouse.

Answer: Correct. See updated plan A110 issued.

-- END OF ADDENDA #4 --



PAGE 1 OF 2

**Project Name:** WRDSB – St. Andrew's Senior Public School – **Date Issued:** May 15, 2025

Air Conditioning Upgrade

Quasar Project #: ED-23-078

Distribution

Quasar Consulting Group.Igor Ilicigor.ilic@quasarcg.comQuasar Consulting GroupCarl Wagstaffcarl.wagstaff@quasarcg.com

LGA Architectural Partners Ed Weinberg <u>ed@lga-ap.com</u>

Addendum #: E-1 Revision #: 0

This Addendum forms part of the Contract Specifications and Drawings, and modifies the Bidding Documents, with Amendments and Additions noted below. This Addendum shall be added to the front of the specifications as issued. Bidders shall acknowledge receipt of this Addendum in the space provided in the Bid Form and include in bid amount.

This addendum includes modifications to the drawings and specifications as summarized below. Unless otherwise noted, all drawings and/or specifications listed below are attached herewith.

#### **Changes to Drawings**

#### 1. Drawing E-101 – Second Floor Demolition & New Work Plans – Lighting (Issued herewith):

- **a.** Refer to attached, revised drawing #E-101 and provide all changes indicated. Modifications include, but are not limited to the following:
  - 1. Added note #6 to demolition key notes.
  - 2. Demolition Plan: removal of existing luminaires in existing stairs.
  - 3. Demolition Plan: removal of two wall mounted lights within corridor.
  - 4. New Work Plan: provision of new lighting within existing stairs and reconnection to existing circuits.
  - 5. New Work Plan: provision of new wall mounted lighting within corridor and reconnection to existing circuits.

#### 2. Drawing E-202 - First Floor New Work Plan - Power & Systems

a. Refer to attached, revised drawing #E-202 and note revision to the routing of the new feeders to new roof mounted condensing units 'CU-3A', 'CU-3B' and 'CU-3C'. Routing shown is diagrammatic and is to be confirmed on site prior to rough-in.

#### 3. Drawing E-203 – Second Floor Demolition & New Work Plans – Power & Systems (Issued herewith):

- a. Refer to attached, revised drawing #E-203 and provide all changes indicated. Modifications include, but are not limited to the following:
  - 1. Added Demolition Key Notes.
  - 2. Revised New Work Key Notes #3, #4, #5 and #6.
  - 3. Demolition Plan: added key note references for PA, fire alarm, WAP devices, etc.
  - 4. Demolition Plan: added additional removal and reinstallation of fire alarm detectors at stairwells.
  - 5. Demolition Plan: added existing to remain devices and existing devices to be removed to accommodate new millwork installation.
  - 6. New Work Plan: added existing to remain devices.
  - 7. New Work Plan: added reinstallation of PA, fire alarm, WAP devices, etc. for devices noted on demolition drawings.
  - 8. New Work Plan: added additional new receptacle devices connect to branch circuits indicated.



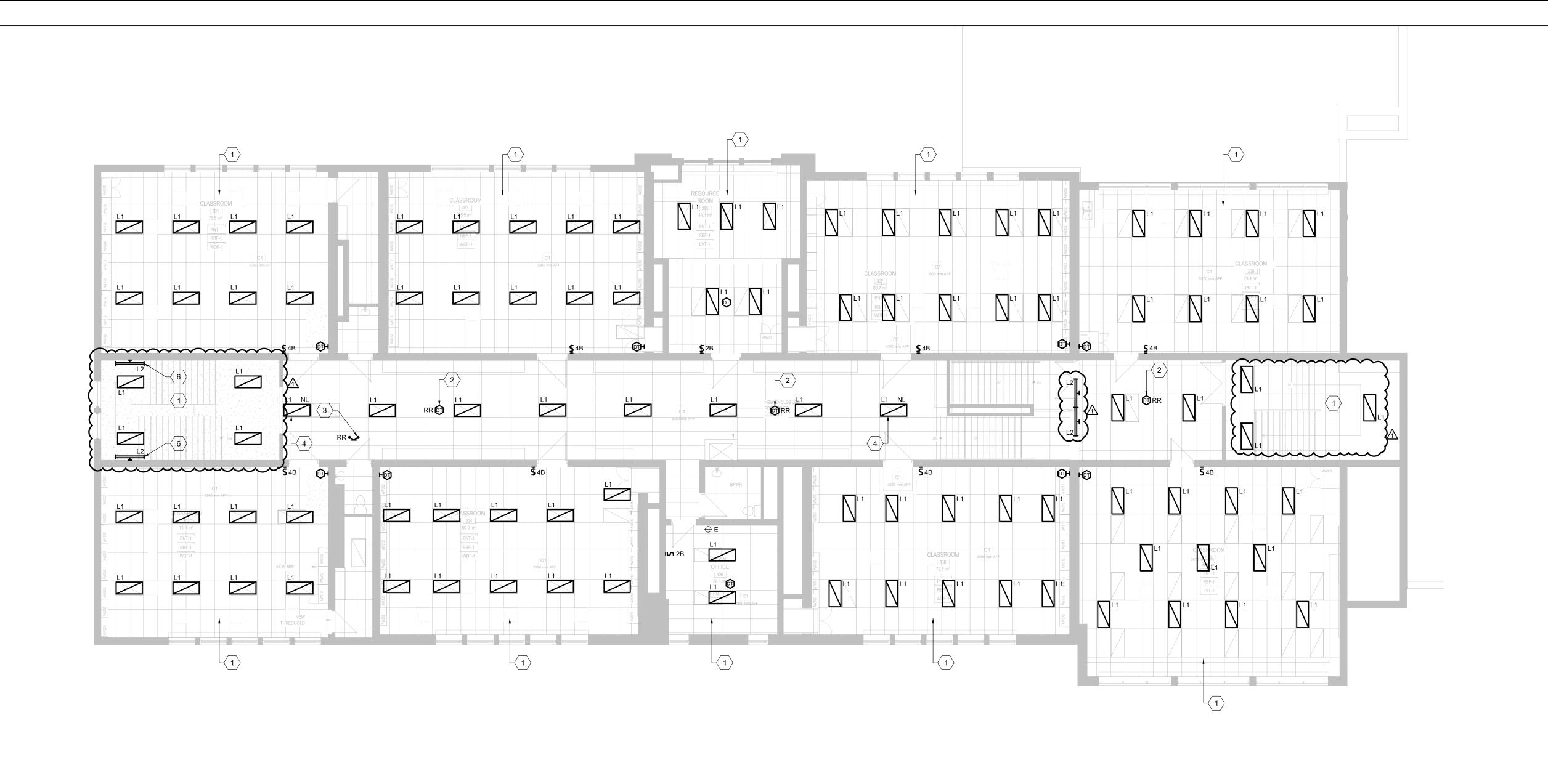
## 4. Drawing E-301 – Electrical Schedules & Detail Sheet No. 1 (Issued herewith):

- **a.** Refer to attached, revised drawing #E-301 and note addition of type L2 to luminaire schedule for new wall mounted luminaires.
- b. For clarification purposes, refer to panel schedule labelled 'LP-M' and note that this should read 'LP-GA'.
- **c.** Delete duplicate lighting control schedule as indicated.
- d. Refer to retained lighting control schedule and note revision to description for two-zone dimming wall station.
- **e.** Note revisions to panel schedule for existing panel 'LP-G'.
- **f.** Add Lutron as an acceptable manufacturer within the Lighting Controls schedule.

## 5. Drawing E-302 – Electrical Detail Sheet No. 2 (Issued herewith):

a. Added lighting control details to this drawing.

**Quasar Consulting Group** 



## 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
COMPLETE.

## NEW WORK KEY NOTES:

- CONNECT NEW LUMINAIRES AND NEW LIGHTING CONTROLS WITHIN THIS SPACE INTO EXISTING LIGHTING BRANCH CIRCUIT SERVING THE SPACE. MODIFY EXISTING 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 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
- 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.

# LGA

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the architect and issued for such purpose.

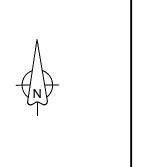


clarification prior to commencing work. Not for construction unless stamped by

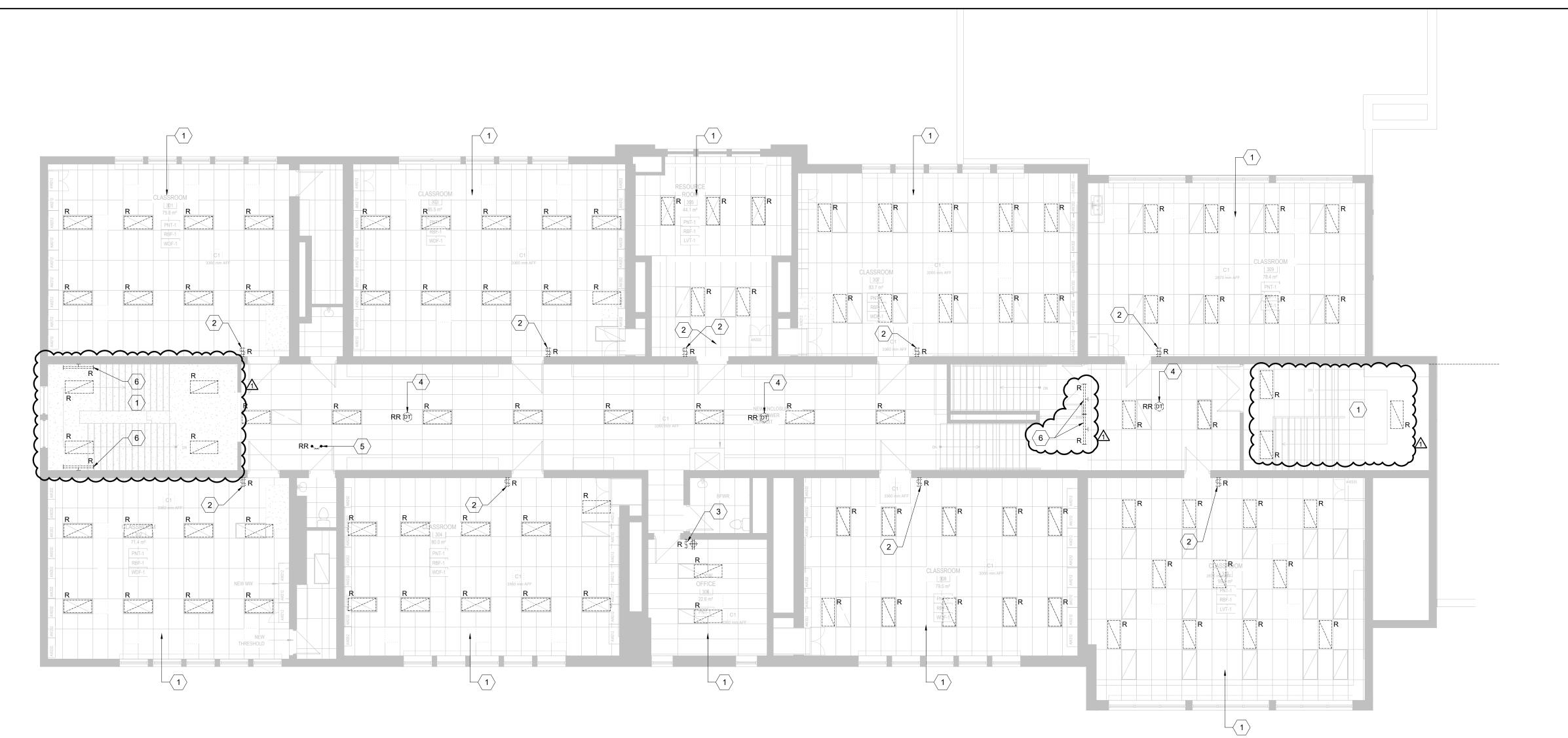
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QUASAR PROJECT No.: ED-22-405



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:

DEVICE UPON COMPLETION OF WORK.

- 2 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 BOX. FOR SURFACE MOUNTED SWITCHES, DISCONNECT FROM EXISTING LIGHTING BRANCH
- 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

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
- 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
- EXISTING WALL MOUNTED LUMINAIRES TO BE REMOVED AND REPLACED WITH NEW. BE RESPONSIBLE TO RETAIN EXISTING BRANCH CIRCUIT, MODIFY AS REQUIRED AND RECONNECT TO NEW LUMINAIRE SCHEDULE FOR SUBSTINE DETAILS.

	<u> </u>	ISSUED WITH ADDENDUM #E-1	2025-05-15
	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
l			

ISSUE DATE:

PROJECT:

ST ANDREW'S
SENIOR PUBLIC
SCHOOL AIR CONDITIONING
UPGRADE

65 VICTORIA AVE. CAMBRIDGE, ON N1S 1X2

SHEET TITLE:

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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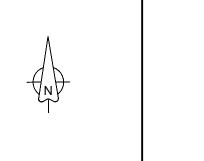
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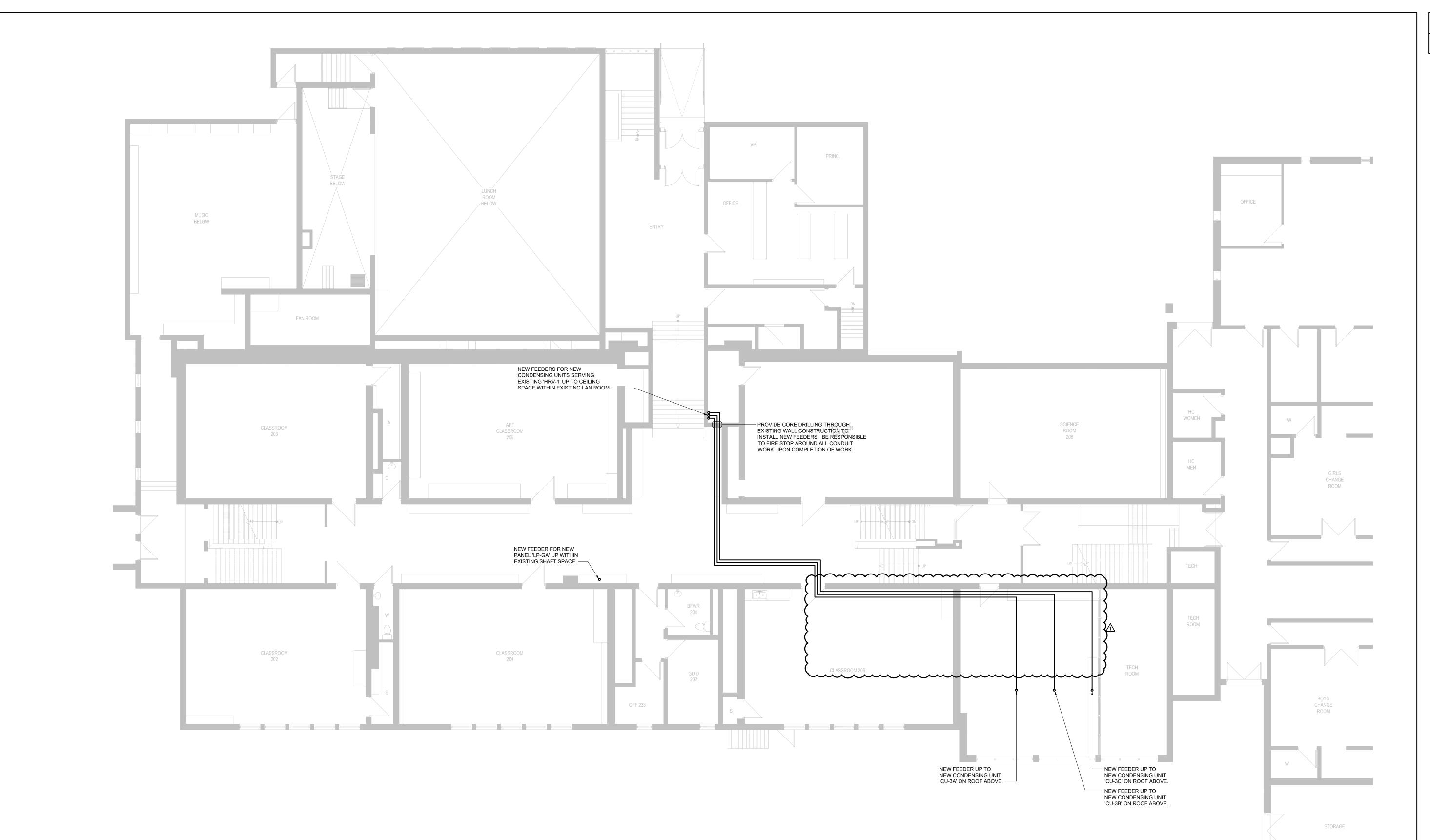
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PROJECT GENERAL NOTES

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.

<u> 1</u>	ISSUED WITH ADDENDUM #E-1	2025-05-15
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:

FIRST FLOOR NEW WORK PLAN -POWER & SYSTEMS

PROJECT NO: 22988

SCALE: AS NOTE

DRAWN BY: CW

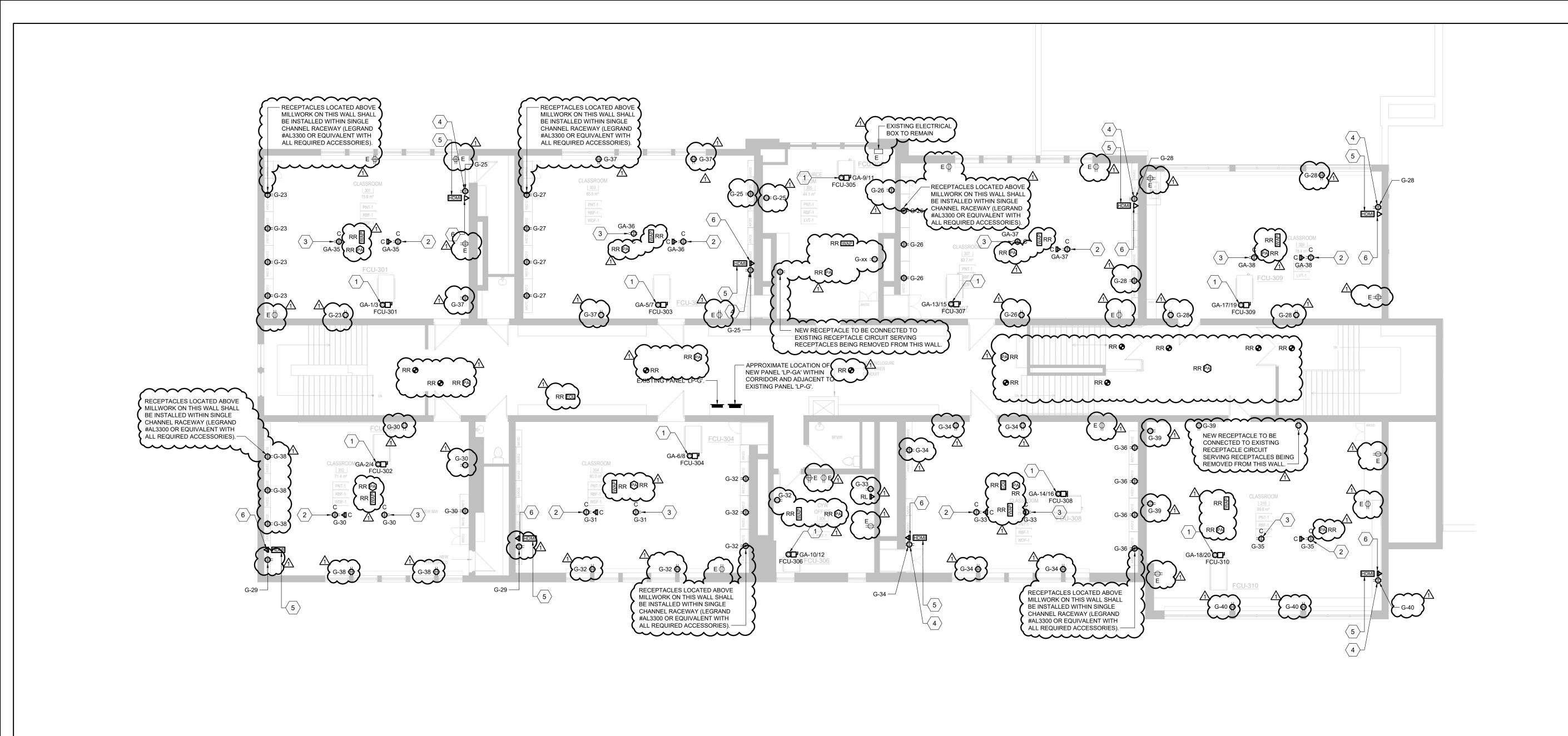
REVIEWED BY: BD/TWS

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

## **INEW WORK KEY NOTES:**

- CONNECTION TO NEW FAN COIL UNIT WITHIN CEILING SPACE. FOR BRANCH CIRCUIT INDICATED 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 lacksquare
- TO PROVIDE CEILING MOUNT SUPPORT BRACKET AND EXTENSION ARM FOR PROJECTOR. PROJECTOR MODEL TO BE SUPPLIED IS OPTOMA #ZW400. CONNECT RECEPTACLE TO BRANCH VICTRICUTS AND THE TIME THE PROGRAM THE SAME THE CONDUCT. RECEPTACLE WITHIN CEILING SPACE FOR FRONT ROW "EZ ROOM" CEILING MOUNT AUDIO SYSTEM. AUDIO SYSTEM SUPPLIED BY OWNER AND INSTALLED AND CONNECTED BY ELECTRICAL CONTRACTOR. CONNECT RECEPTACLE TO BRANCH CIRCUIT NOTED WITH 2#10 + GROUND IN 21mm
- RECEPTACLE AND FRONT ROW "EZ ROOM" AUDIO SYSTEM MEDIA CONNECTOR INSTALLED ON WALL ABOVE MILLOWORK UNIT (EXACT MOUNTING HEIGHT AND LOCATION TO BE CONFIRMED WITH OWNER PRIOR TO ROUGH-IN). 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 SINGLE GANG BACKBOX FOR HDMI WALL PLATE INSTALLED ABOVE MILLWORK UNIT (EXACT

 $^{
angle}$  MOUNTING HEIGHT AND LOCATION TO BE CONFIRMED WITH OWNER PRIOR TO ROUGH-IN). EXTEND  $\parallel$ 

- SINGLE COMPARTMENT SURFACE RACEWAY FROM BACKBOX TO ABOVE CEILING AND 41mm CONDUIT, COMPLETE WITH PULL STRING, FROM SURFACE RACEWAY TO TERMINATE WITHIN CEILING SPACE ABOVE NEW PROJECTOR LOCATION. HDMI WALL PLATE AND WIRING TO BE 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 ABOVE MILLWORK UNIT AND  $^{
  angle}$  ADJACENT TO HDMI OUTLET AND RECEPTACLE (EXACT MOUNTING HEIGHT AND LOCATION TO BE
- CONFIRMED WITH OWNER PRIOR TO ROUIGH-IN). 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.

partners

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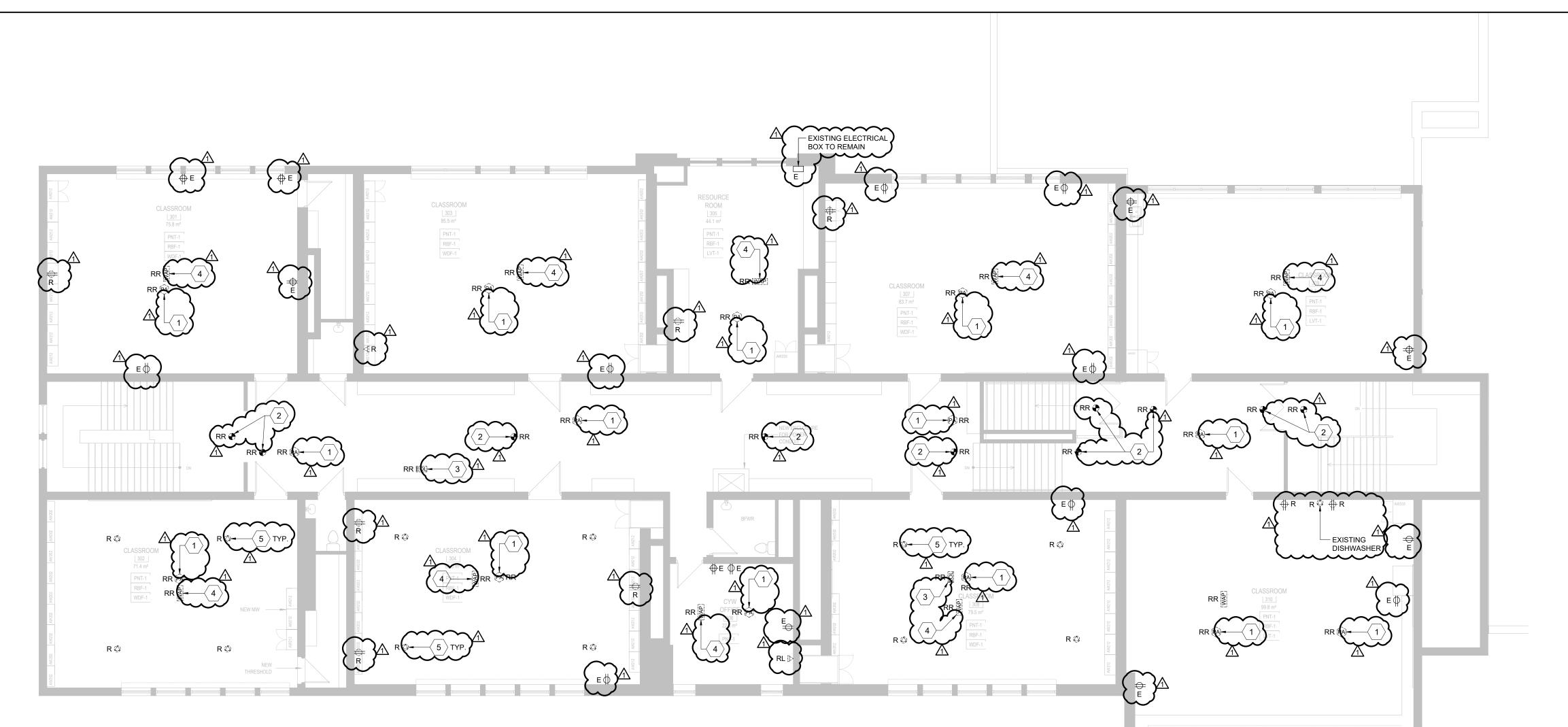
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QUASAR PROJECT No.: ED-22-405

SECOND FLOOR NEW WORK PLAN - POWER & SYSTEMS



## PROJECT GENERAL NOTES

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## **DEMOLITION KEY NOTES:**

- DOWN TO ACCOMMODATE REPLACEMENT OF EXISTING CEILING. BE RESPONSIBLE TO STORE SPEAKER ON SITE SAFELY AND REINSTALL IN SAME LOCATION ONCE NEW CEILING HAS BEEN INSTALLED. MODIFY EXISTING SYSTEM WIRING AS REQUIRED TO ACCOMMODATE THE REMOVAL AND REINSTALLATION OF SPEAKER. EXISTING FIRE ALARM SMOKE DETECTOR TO BE TEMPORARILY DISCONNECTED AND TAKEN DOWN
- TO ACCOMMODATE REPLACEMENT OF EXISTING CEILING. BE RESPONSIBLE TO STORE DETECTOR ON SITE SAFELY AND REINSTALL IN SAME LOCATION ONCE NEW CEILING HAS BEEN INSTALLED. MODIFY EXISTING SYSTEM WIRING AS REQUIRED TO ACCOMMODATE THE REMOVAL AND REINSTALLATION OF DETECTOR. TEST AND VERIFY DEVICE UPON COMPLETION OF WORK. EXISTING FIRE ALARM SMOKE END OF LINE RESISTOR TO BE TEMPORARILY DISCONNECTED AND
- TAKEN DOWN TO ACCOMMODATE REPLACEMENT OF EXISTING CEILING. BE RESPONSIBLE TO STORE DEVICE ON SITE SAFELY AND REINSTALL IN SAME LOCATION ONCE NEW CEILING HAS BEEN INSTALLED. MODIFY EXISTING SYSTEM WIRING AS REQUIRED TO ACCOMMODATE THE REMOVAL AND REINSTALLATION OF END OF LINE RESISTOR. TEST AND VERIFY DEVICE UPON COMPLETION
- ACCOMMODATE REPLACEMENT OF EXISTING CEILING. BE RESPONSIBLE TO STORE ACCESS POINT ON SITE SAFELY AND REINSTALL IN SAME LOCATION ONCE NEW CEILING HAS BEEN INSTALLED. MODIFY EXISTING SYSTEM WIRING AS REQUIRED TO ACCOMMODATE THE REMOVAL AND REINSTALLATION OF ACCESS POINT. CONNECTION TO EXISTING CEILING MOUNTED DESTRATIFICATION FAN TO BE REMOVED IN ITS
- ENTIRETY INCLUDING ALL ASSOCIATED WIRING BACK TO SOURCE PANEL AND WIRING TO FAN CONTROLLER WITHIN ROOM. RETAIN BREAKER IN EXISTING PANEL AS SPARE. FAN AND CONTROLLER TO BE REMOVED BY MECHANICAL CONTRACTOR.
- RELOCATE EXISTING DATA OUTLET TO ACCOMMODATE RENOVATION SCOPE OF WORK. BE RESPONSIBLE TO REWORK EXISTING CONDUIT INFRASTRUCTURE TO ACCOMMODATE NEW LOCATION OF DEVICE. PULL BACK EXISTING DATA CABLING FROM DEVICE INTO CEILING SPACE AND REPULL AND RETERMINATE TO OUTLET ONCE RELOCATION OF DEVICE IS COMPLETE. REFER

TO NEW WORK PLANS FOR NEW LOCATION OF DEVICE.

$\triangle$	ISSUED WITH ADDENDUM #E-1	2025-05-15
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

ST ANDREW'S SENIOR PUBLIC SCHOOL -AIR CONDITIONING UPGRADE

65 VICTORIA AVE. CAMBRIDGE, ON N1S 1X2

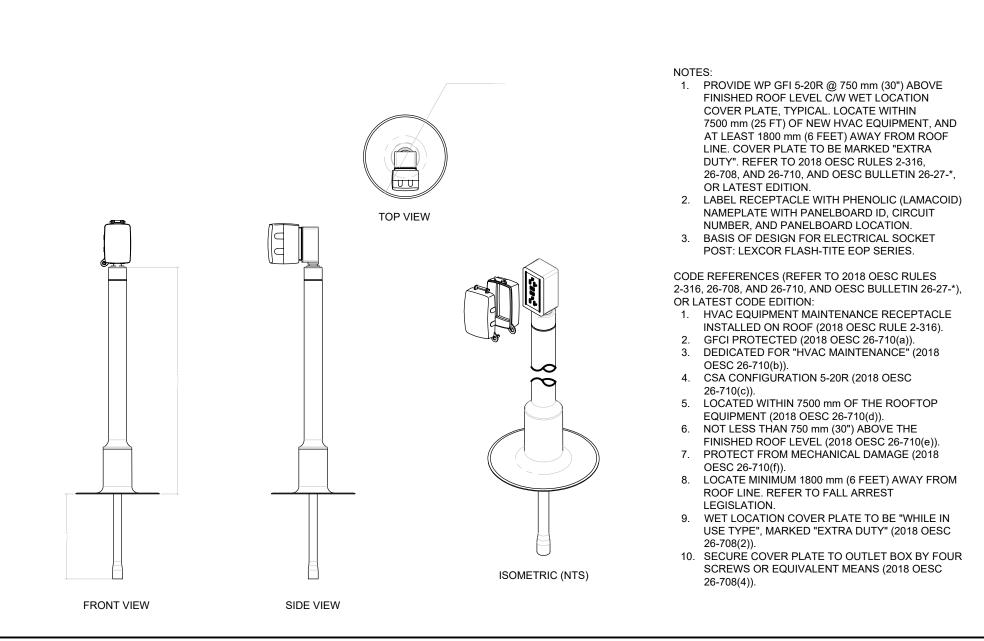
SECOND FLOOR **DEMOLITION & NEW WORK PLANS -**POWER & SYSTEMS

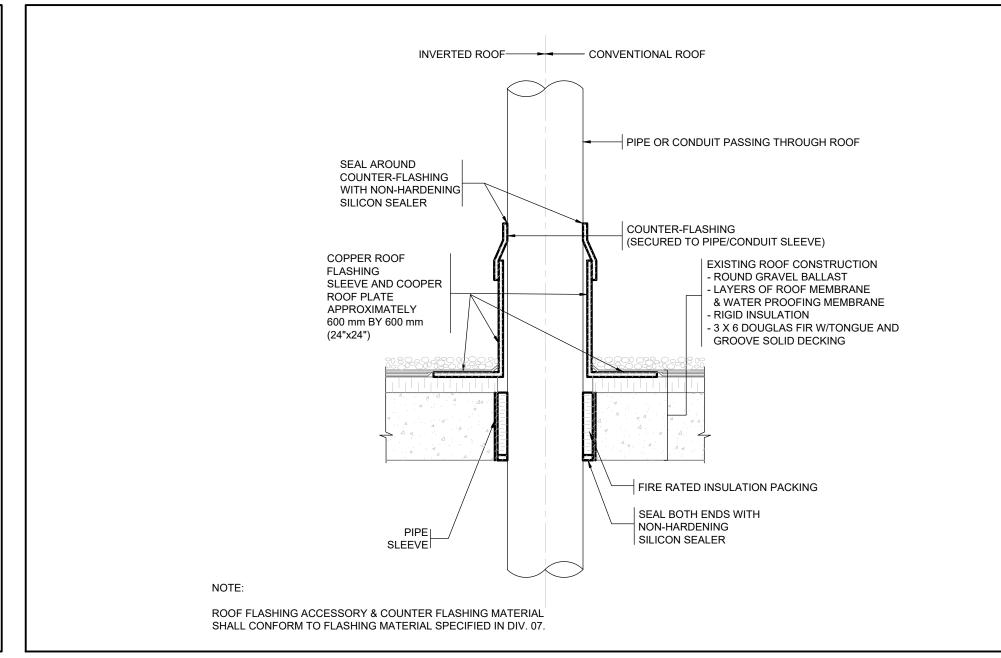
**REVIEWED BY:** BD/TWS

SHEET NO:

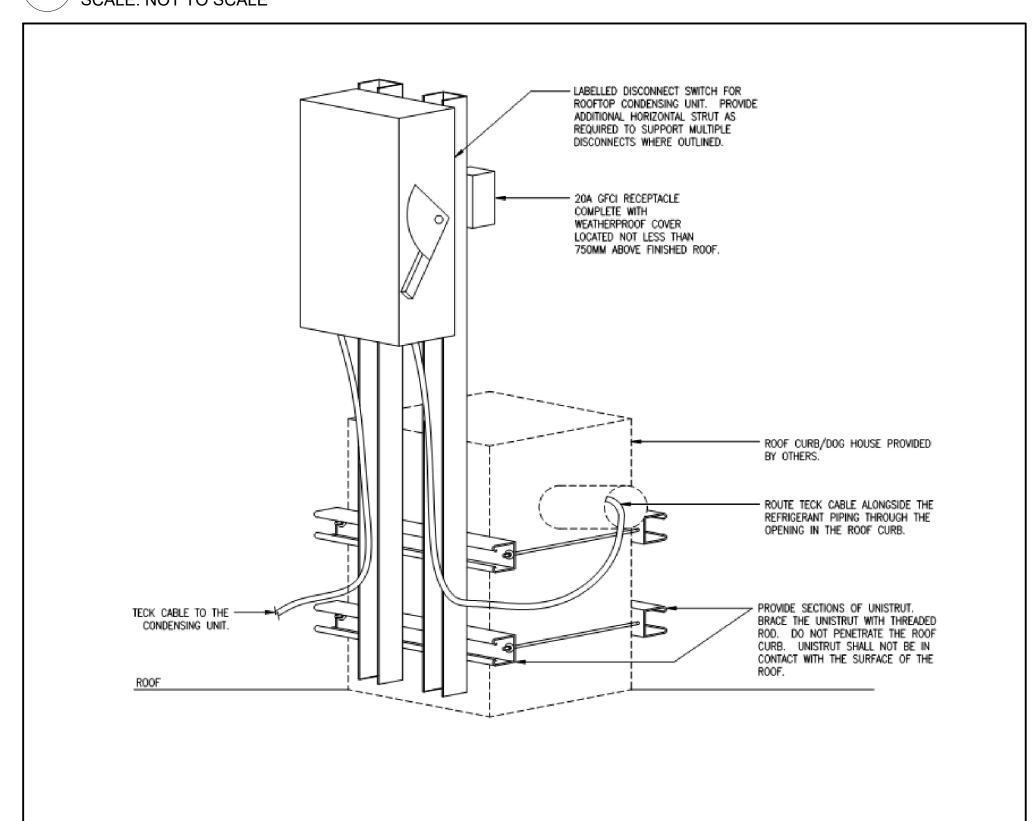
E-203

SECOND FLOOR DEMOLITION PLAN - POWER & SYSTEMS SCALE: 1:100





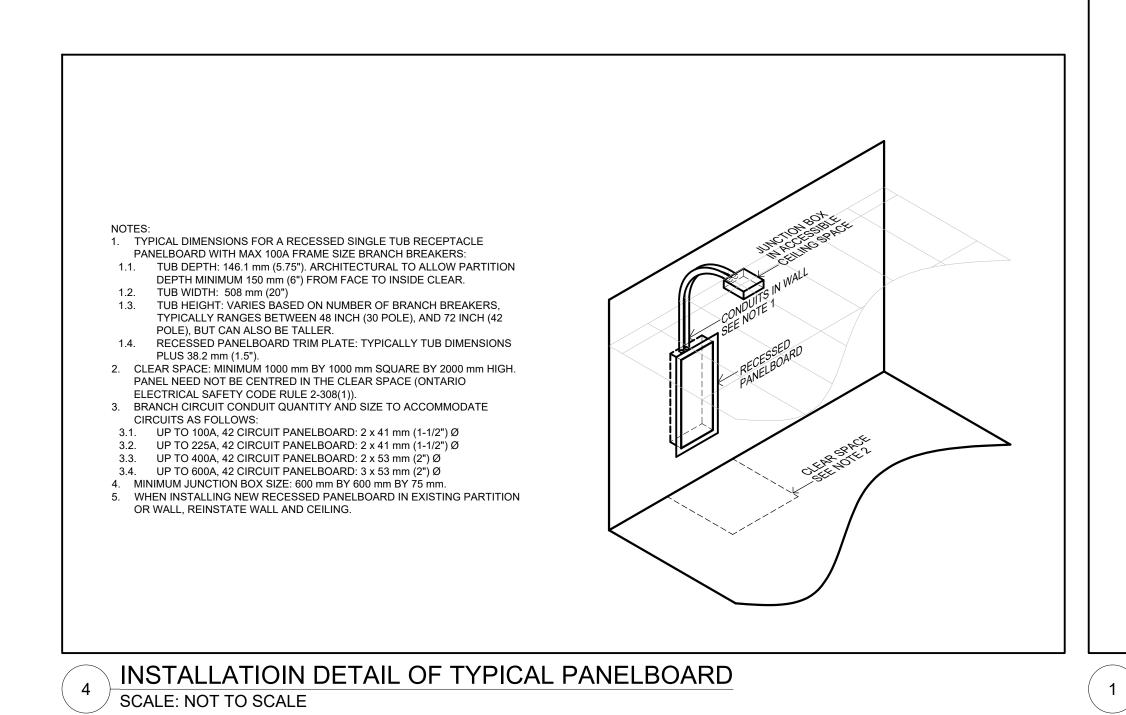
ROOF MOUNTED MAINTENANCE RECEPTACLE DETAIL SCALE: NOT TO SCALE



DETAIL OF CONDUIT PENETRATION THROUGH ROOF SCALE: NOT TO SCALE

E	MER	GEN	NCY LIGHTING WIRING MAX VOLTAGE DROP												
			LENGTH OF WIRE RUN (FEET)												
LOAD	(WATTS)	)								/					
WIRE SIZE	,	13	18	25	30	35	50	60	75	100	150	200	250	300	400
6	12	41	30	21	18	15	11	9	8	6	4	-	-	-	-
	10	65	47	32	28	24	17	14	11	9	6	-	-	-	-
VOLT	8	110	75	54	45	39	27	22	18	14	9	7	-	-	-
12	12	165	110	85	71	61	42	35	29	21	14	10	8	-	-
	10	260	190	136	112	97	68	52	45	34	23	17	14	11	-
VOLT	8	415	300	215	180	154	108	90	72	54	36	27	21	18	-
24	12	660	440	340	284	244	168	140	116	84	56	40	32	26	21
	10	1040	760	544	448	388	272	208	180	136	92	68	52	44	34
VOLT	8	1668	1200	860	720	616	432	360	288	216	44	108	84	72	54

EMERGENCY LIGHTING WIRING MAX VOLTAGE DROP 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

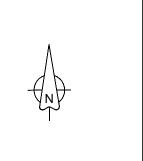
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QUASAR PROJECT No.: ED-22-405



SYMBOL	TYPE	DESCRIPTION	BASIS OF DESIGN MANUFACTURERS AND PRODUCT SERIES	CONTROL WIRING	VOLTAGE OUTPUT	MOUNTING	SPACES SERVED	REMARKS
_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.
_4B	UI-DIM-2V-4B	DIMMING WALL STATION, TWO-ZONE, 0-10 V DIMMING, CONNECTED TO POWER PACK. FOR CONTROL OF TWO ZONES 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.
- <del>(</del> )	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		
OT)	DT-C-2V	CEILING MOUNTED OCCUPANCY SENSOR, 24 V, DUAL TECHNOLOGY SENSOR.	LEGRAND WATTSTOPPER LMDC-100	DIGITAL	-			
I. LIGHTING 2. ALTERN 3. DUAL TE	ATE MANUFACTI CHNOLOGY SEN	EDULE NOTES: ONE MANUFACTURER THROUGH PROJECT TO EN JRERS: ACUITY BRANDS, COOPER LIGHTING SOLU ISORS: PASSIVE INFRARED/ULTRASONIC, OR PASSIVE OCCUPANCY SENSORS A MINIMUM 1200 mm	JTIONS, SIGNIFY (FORMERLY PHILIPS LIGHTING), ' SIVE INFRARED/MICROPHONIC, DEPENDING ON M	ANUFACTURER.	MICROPHONIC		CEPTABLE IN LIEU OF U	JLTRASONIC.

SYMBOL	TYPE	DESCRIPTION	BASIS OF DESIGN MANUFACTURER AND CAT NO. SEE NOTE 1	VOLTAGE/ INPUT WATTS	LUMEN PACKAGE (3500 K CCT UNLESS NOTED OTHERWISE) MINIMUM 80 CRI	MOUNTING	REFERENCE	REMARKS
	L1	RECESSED 2' x 4' LED TROFFER STYLE LUMINAIRE COMPLETE WITH WHITE FINISH, AND K12 ACRYLIC PRISMATICLENS, 0.125" THICK	PEERLESS ELECTRIC (OMNILUMEN) PEERLUX SERIES CAT#LACH2-24C-40-40K-12P-MV	120V	4000 LUMEN 4000K	RECESSED T-BAR CEILING	_	
	L2	7.5" WIDE x 4" DEEP x 48" LONG WALL MOUNTED LED LUMINAIRE COMPLETE WITH ONE-PIECE COLD ROLLED STEEL HOUSING AND ACRYLIC LENS.	PEERLESS ELECTRIC (OMNILUMEN) PEERLUX SERIES CAT.#AHM-WA-4-40-40K-WM-MV	120V	4000 LUMEN 4000K	SURFACE WALL MOUNT	}	

CONFIRM INSTALLATION REQUIREMENTS, WIRING DIAGRAMS, ETC. WITH MANUFACTURER'S DETAILS.

6. SUBMIT SHOP DRAWINGS FOR CONSULTANT'S REVIEW PRIOR TO PLACING ANY ORDER.

'. CONFIRM FINISH COLOUR WITH CONSULTANT DURING SUBMITTAL REVIEW.

	26 06 20	16 -	ELE	CTR	RICA	LΡ	ANE	LBC	)AR[	) SC	HEDULE			26 06 20	.16 -	ELE	CTR	RICA	LΡ	ANE	ELBC	DARI	) SC	HEDULE	
	PANEL ID: LP-G	SA)		V	OLTS: 1	20/208	V	LC	CATION	I: EXIST	ING LEVEL 2 CORRIDO	ıR		PANEL ID: LP-	G		٧	OLTS: 1	20/208	V	L	OCATION	I: EXIST	ING LEVEL 2 CORRID	OR
	MAIN BUS: 100	A			PHAS	SE: 3		FE	D FROM	: EXISTI	NG MAIN SWITCHBOAI	RD		MAIN BUS: 225	δA			PHAS	E: 3		FE	D FROM	: EXISTI	NG MAIN SWITCHBO	ARD
	MAIN BREAKER: N	IONE			WIRI	E: 4			FEE	EDER EN	TRY AT: BOTTOM			MAIN BREAKER: N	NONE			WIRE	E: 4			FEE	EDER EN	TRY AT: BOTTOM	
	TYPE:			MOUI	NTING:	RECES	SSED		FEEDER	R: REFER	TO DRAWING NOTES			TYPE:			MOU	NTING: F	RECES	SSED			FEEDE	R: EXISTING	
INT	ERRUPTING CAPACIT	Y: 10KA	MIN	ENC	LOSUR	E RAT	ING:			RE	EMARKS:			INTERRUPTING CAPACIT	TY: 10KA	MIN	ENC	LOSURI	E RAT	ING:			RE	MARKS:	
CIR		,	WATTAG	E	BRK		BRK	V	VATTAG	E		CIR	CIF			WATTAG	E	BRK		BRK	,	WATTAG	E		CII
NO.	DESCRIPTION	ØA	ØB	ØC	R	Ø	R	ØA	ØB	ØC	DESCRIPTION	NO.	NC		ØA	ØB	ØC	R	Ø	R	ØA	ØB	ØC	DESCRIPTION	NC
1	FAN COIL UNIT	268	-	-	15	Α	15	234	-	-	FAN COIL UNIT	2	1	EXISTING LOAD	0	-	-	40	Α	15	0	-	-	EXISTING LOAD	2
3	'FCU-301'	-	268	-	10	В	13	-	234	-	'FCU-302'	4	3		-	0	-	40	В	15	-	0	-	EXISTING LOAD	4
5	FAN COIL UNIT	-	-	268	15	С	15	-	-	234	FAN COIL UNIT	6	5	EXISTING LOAD	-	-	0	15	С	15	-	-	0	EXISTING LOAD	6
7	'FCU-303'	268	-	-	15	Α	15	234	-	-	'FCU-304'	8	7	EXISTING LOAD	0	-	-	15	Α	15	0	-	-	EXISTING LOAD	8
9	FAN COIL UNIT	-	37	-	45	В	45	-	37	-	FAN COIL UNIT	10	9	EXISTING LOAD	-	0	-	15	В	15	-	0	-	EXISTING LOAD	10
11	'FCU-305'	-	-	37	15	С	15	-	-	37	'FCU-306'	12	11	EXISTING LOAD	-	-	0	15	С	15	-	-	0	EXISTING LOAD	12
13	FAN COIL UNIT	268	-	-		Α		234	-	-	FAN COIL UNIT	14	13	EXISTING LOAD	0	-	-	15	Α	15	0	-	-	EXISTING LOAD	14
15	'FCU-307'	-	268	-	15	В	15	-	234	-	'FCU-308'	16	15	EXISTING LOAD	-	0	-	15	В	15	-	0	-	EXISTING LOAD	16
17	FAN COIL UNIT	-	-	268		С		-	-	262	FAN COIL UNIT	18	17	EXISTING LOAD	-	-	0	15	С	15	-	-	0	EXISTING LOAD	18
19	'FCU-309'	268	-	-	15	Α	15	262	-	-	'FCU-310'	20	19	SPARE BRKR	0	-	-	15	Α	15*	0	-	-	EXISTING LOAD	20
21		-	3945	-		В		-	5167	-		22	21	EXISTING LOAD	-	0	-	15	В	15*	-	0	-	EXISTING LOAD	22
23	ROOF MOUNTED CONDENSING UNIT 'CU-1'	-	-	3945	40	С	50	-	-	5167	ROOF MOUNTED CONDENSING UNIT 'CU-2'	24	23	301 - RECEPT	-	-	1000	15	С	15	-	-	0	EXISTING LOAD	24
25	ONT CO-T	3945	-	-		Α		5167	-	-	ONIT CO-2	26	25	301, 303 - RECEPT	1000	-	-	15	Α	15	1000	-	-	307 - RECEPT	26
27		_	400	_		В	20**	_	1500	_	COND. UNIT 3A-3B-3C HEAT	28	27	303 - RECEPT	-	1000	-	15	В	15	-	1000	-	307, 309 - RECEPT	28
	HRV UNIT - W CONTROL BOXES		100		15**				1000		TRACE & PAN HTR		29	302, 304 - RECEPT	-	-	1000	15	С	15	-	-	1000	302 - RECEPT.	30
29	& HEATER	-	-	400		С	15*	-	-	1200	COND. UNIT CU-1 & CU-2 HEAT TRACE & PAN HTR	30	31	304 - RECEPT.	1000	-	-	15	Α	15	1000	-	-	304 - RECEPT.	32
31	ROOF TOP	1500	_	_	20**	A	20**	1500	_	_	ROOF TOP	32	33	308 - RECEPT	-	1000	-	15	В	15	-	1000	-	308 - RECEPT.	34
	SERVICE RECEPT										SERVICE RECEPT		35	310 - RECEPT	~ <u>-</u> ~	~~~	1000	15	C C	15	~~	~~~	1000	308 - RECEPT	36
33	SPARE BREAKER	-	0	-	15	В	15	-	0	-	SPARE BREAKER	34	37	301, 303 - RECEPT	1000	-	-	15	Α	15	1000	-	-	302 - REC	38
35	301 - RECEPT	-	-	1000	15	С	15	-	-	1000	303 - RECEPT.	36	39	310 - REC	-	1000	-	15	В	15	-	1000	_	310 - REC	40
37	307 - RECEPT	1000	-	-	15	Α	15	1000	-	-	309 - RECEPT	38	4	SPARE BRKK	حيہ	ميہ	<b>₩</b>	<b>1</b> 5	Ç	<b>15</b>	بر	ىب	<b>⊸</b>	SPARE BRKK	42
39	SPARE BREAKER	-	0	-	15	В	15	-	0	-	SPARE BREAKER	40			Т	OTAL ØA	A:W	, TOTAI	ØB:	W ,	TOTAL	ØC:	W		•
41	SPARE BREAKER	-	-	0	20	С	20	-	-	0	SPARE BREAKER	42	NO	TES:											
		Т	OTAL ØA	A:W	, TOTA	L ØB: _	W ,	TOTAL	ØC:	W				PROVIDE LOCKABLE BRE PROVIDE GFI TYPE BREA											
OTES		A1/55											*** . R -	- COORDINATE EXACT BE RECEPTACLE		SIZE WI	TH EQUI	PMENT	SHOP	DRAWI	NGS				
' - PR	OVIDE LOCKABLE BRE	KER	0175 140		D14515	01105	DD 414#	NO.						LIGHTING											
R - RE	DORDINATE EXACT BF CEPTACLE HTING	KEAKER	SIZE WI	TH EQUI	PMENT	SHOP	DRAWI	NGS						CUIT NUMBERS ARE GIV RING TENDER WALKTHR		GROUP	ING ONL	Y. SITE	VERI	FY AVAI	LABLE C	CIRCUIT	BREAKEI	R SPACES IN PANELS	S

ISSUED WITH ADDENDUM #E-1 2025-05-15 2025-05-02 ISSUED FOR TENDER 2 ISSUED FOR DD CLIENT REVIEW 1 ISSUED FOR DD CLIENT REVIEW **ISSUE DATE:** 

ST ANDREW'S SENIOR PUBLIC SCHOOL -AIR CONDITIONING UPGRADE

65 VICTORIA AVE. CAMBRIDGE, ON N1S 1X2

SHEET TITLE: ELECTRICAL SCHEDULES &

DETAIL SHEET No.1

**PROJECT NO**: 22988 AS NOTED CW DRAWN BY: **REVIEWED BY:** BD/TWS

SHEET NO:

E-301



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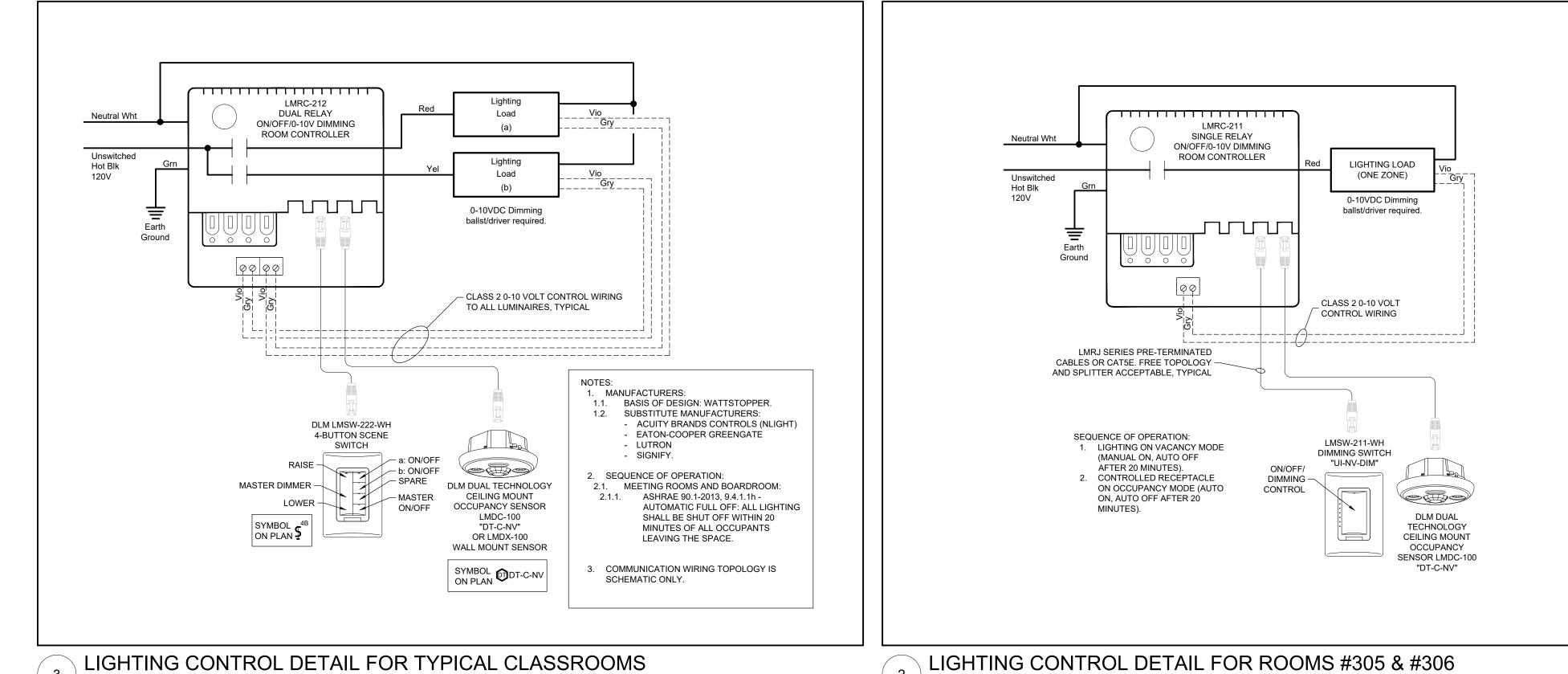
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QUASAR PROJECT No.: ED-22-405





LIGHTING CONTROL DETAIL FOR ROOMS #305 & #306 SCALE: NOT TO SCALE

ISSUED WITH ADDENDUM #E-1 2025-05-15 ISSUED FOR TENDER 2025-05-02 ISSUED FOR DD CLIENT REVIEW ISSUED FOR DD CLIENT REVIEW

**ISSUE DATE:** 

		CORRIDOR (2012 OBC 3.3.1.9.(3))  UIPMENT IS TO BE CONNECTED SHALL BE NOT LESS THAN  WHERE PRACTICAL, AND NOT MORE THAN 1500 mm [59 IN]		
	EMERGENCY LIGHTING BATTERY UNI ADJACENT RECEPTACLE (DIMENSION TO TOP OF CABINET AND HEADS		MIN 150 mm [6"] IF CEILING LESS THAN 2450 mm [8'-0"] AFF (CAN/ULC-S524-14 9.1.2)  FINISHED CEILING	
GENERAL NOTES:  1. DEVICE DIMENSIONS TO THE CENTRELINE OF THE DEVICE, UNLESS NOTED OTHERWISE. METRIC DIMENSIONS GOVERN.		FIRE ALARM AUDIBLE SIGNAL DEVICE (BELLS, HORNS) TYPICAL 2300 mm TO TOP OF DEVICE		
2. DEVICES, INCLUDING ACCESS CONTROL INTERFACE DEVICES, DOOR OPERATOR PUSH BUTTONS, AND FIRE ALARM MANUAL PULL STATIONS ARE NOT TO BE INSTALLED ON HOLLOW METAL DOOR FRAMES UNLESS OTHERWISE NOTED.  3. DEVICE MOUNTING HEIGHT RULES: 3.1. EXACT DIMENSIONS, WHERE INDICATED, MUST BE		FIRE ALARM VISIBLE SIGNAL DEVICES (STROBES AND COMBO HORN/STROBES) TYPICAL 2300 mm	WALL MOUNTED PUBLIC ADDRESS SPEAKER MIN 2100 mm AFF (FPABES)	
FOLLOWED, AND NO DEVIANCE IS PERMITTED.  3.2. TYPICAL DIMENSIONS, WHERE INDICATED, ARE A PREFERENCE OF THE DESIGNER FOR CONSISTENCY OF INSTALLATION.  3.3. WHERE CIRCUMSTANCES PREVENT A TYPICAL DIMENSION FROM BEING MET, DEVICES MAY BE INSTALLED WITHIN THE RANGE OF MINIMUM AND MAXIMUM THAT MEETS ALL THE REFERENCED DOCUMENTS. CONFIRM EXACT MOUNTING HEIGHT WITH THE CONSULTANT.	ARDS	CLOCKS TYPICAL 2100 mm  FIRE ALARM END-OF-LINE AFF RESISTORS ON CLASS 'B' CIRCUITS MAX 1800 mm AFF TYPICAL 1800 mm AFF TELEPHONES (FIREFIGHTER'S HAMIN 1350 mm MAX 1500 mm TYPICAL 1400 mm TO CENTRELINE ENCLOSURE	ANDSETS)  RECEPTACLES ABOVE COUNTERTOPS OR IN SERVICE ROOMS	TYPICAL DOOR OPENING, FOR COMPARATIVE HEIGHT REFERENCE
4. METRIC DIMENSIONS GOVERN. DIMENSIONS PROVIDED IN OTHER UNITS PROVIDED FOR EASE OF REFERENCE ONLY.  5. REFER TO ARCHITECT OR INTERIOR DESIGNER'S DRAWINGS FOR ELEVATIONS OR MOUNTING HEIGHTS NOT DETAILED HERE.	THERMOSTAT AND MANUAL  HVAC CONTROLS	FIRE ALARM MANUA PULL STATIONS 1200 mm AFF EXACT	<u>्र</u> <u> </u>	CES ¬
THIS DETAIL IS SPECIFIC TO INSTALLATIONS IN ONTARIO.  OWNER'S ACCESSIBILITY DESIGN GUIDELINES MAY BE  MORE STRINGENT.	1200 mm (EXACT) PER OBC	PER OBC	- 19820 mu	
REFERENCES AND DOCUMENT ORDER OF PRECEDENCE FOR ACCESSIBLE DESIGN:  1. 2012 ONTARIO BUILDING CODE (OBC), WITH AMENDMENTS EFFECTIVE JAN 1, 2015 (MANDATORY)  2. CAN/ULC S524-06 - INSTALLATION OF FIRE ALARM SYSTEMS (MANDATORY)	POWER DOOR OPERATOR PUSH BUTTONS TYPICAL 900 mm AFF MIN 900 mm AFF MAX 1100 mm AFF	TEN S NOT LESS THAN 1820 mm   18-07   18-08 mm   18-		
<ol> <li>2018 ONTARIÓ ELECTRICAL SAFETY CODE (OESC).</li> <li>CAN/CSA B651-18 - ACCESSIBLE DESIGN FOR THE BUILT ENVIRONMENT (VOLUNTARY STANDARD).</li> <li>FINAL PROPOSED ACCESSIBLE DESIGN STANDARD - JULY, 2010 (FPABES). THIS DOCUMENT WAS SUBMITTED TO THE ONTARIO MINISTRY OF MUNICIPAL AFFAIRS AND HOUSING FOR CONSIDERATION IN AN UPCOMING REVISION TO THE ONTARIO BUILDING CODE. TO DATE, THE RECOMMENDATIONS HAVE NOT BEEN ACTED UPON AND THE FPABES IS THEREFORE NOT MANDATORY.</li> <li>NECA 1-2010: STANDARD FOR GOOD WORKMANSHIP IN ELECTRICAL CONSTRUCTION (TABLE 3 - TYPICAL MOUNTING</li> </ol>	MIN 800 mm (17-117) (AECA 17-17) (AECA 17-17	######################################	RECEPTACLES, DATA OUTLETS  (GENERAL)  TYPICAL USE BIRLING STATE  RECEPTACLES, DATA OUTLETS  (GENERAL)  TYPICAL STATE DELOCATE STATE  (GENERAL)  TYPICAL STATE  (GENERAL)  TYPICAL 450 mm  AFF  MIN 400 mm AFF  MIN 400 mm AFF	600 mm (19-117] CANDENS BEG1-18 5.7.4.2) FOR INSERTION CARD READERS MIN 8000 mm (19-117] CANDENS AND PROXIMITY CARD READERS AND PROXIMITY CARD READERS
HEIGHTS). 7. GOOD ENGINEERING JUDGEMENT AND MANUFACTURER'S	FULL LENGTH		DR LEVEL	WIIN C

ST ANDREW'S SENIOR PUBLIC SCHOOL -AIR CONDITIONING UPGRADE

65 VICTORIA AVE. CAMBRIDGE, ON N1S 1X2

SHEET TITLE:

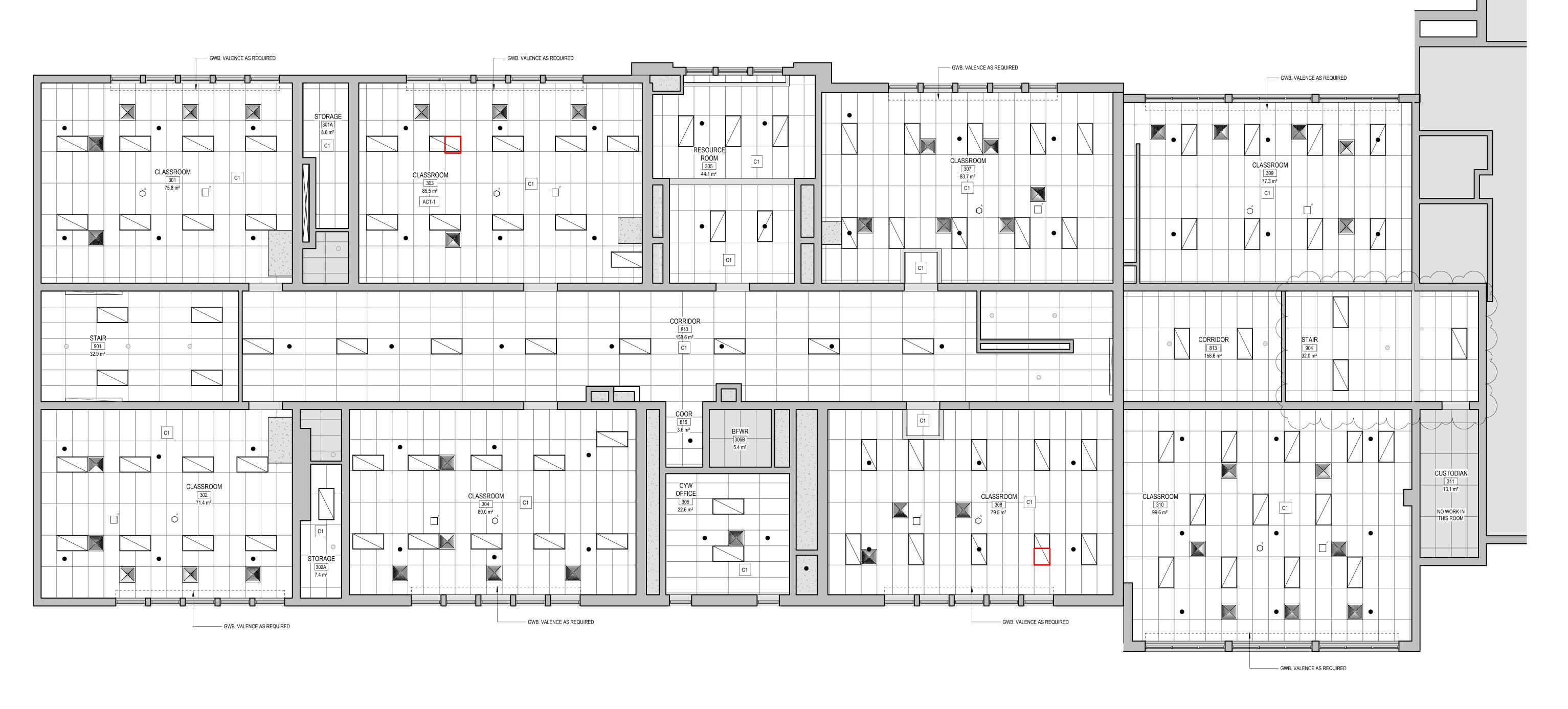
ELECTRICAL DETAIL SHEET No.2

**REVIEWED BY:** BD/TWS

SHEET NO:

E-302

SCALE: NOT TO SCALE



## 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.

partners

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## REFLECTED CEILING PLAN FIXTURE LEGEND

NEW WALL MOUNTED LIGHT FIXTURE

**NEW DIFFUSER GRILLE** 

EXISTING PANEL LIGHT FIXTURE

NEW PANEL LIGHT FIXTURE

EXISTING DIFFUSER GRILLE

EXISTING SPRINKLER HEAD,

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

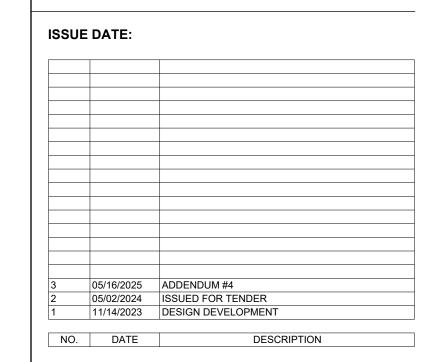
EX. REINSTATED AUDIO SYSTEM, SEE ELECTRICAL

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

65 VICTORIA AVE. CAMBRIDGE, ON N1S 1X2

SECOND FLOOR REFLECTED CEILING PLAN

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

Checker

SHEET NO: A120

1 A120 SECOND FLOOR RCP 1:75