ELECTRICAL SPECIFICATION

GENERAL CONDITIONS

1. THE CANADIAN STANDARD FORM OF CONSTRUCTION CONTRACT AND GENERAL CONDITIONS GOVERNING THE SAME CCDC 2 – 2020 STIPULATED PRICE CONTRACT PARTS 1 TO 13 INCLUSIVE ARE HEREBY MADE PART OF THIS SPECIFICATION.
2. ALL WORK SHALL BE IN FULL ACCORDANCE WITH THE REQUIREMENTS OF THE 2021 ONTARIO ELECTRICAL SAFETY CODE, ELECTRICAL SAFETY AUTHORITY (ESA), AND THE LOCAL BUILDING INSPECTION DEPARTMENT REQUIREMENTS.
3. ELECTRICAL CONTRACTOR SHALL INCLUDE FOR ESA INSPECTION FEES.
4. THIS CONTRACTOR SHALL MAINTAIN LIABILITY INSURANCE AS REQUIRED.
5. ALL WORKMANSHIP SHALL BE EXECUTED TO A STANDARD DETERMINED BY GOOD PRACTICE. THE ELECTRICAL CONTRACTOR SHALL GUARANTEE THE EQUIPMENT & INSTALLATION FOR ONE YEAR FROM THE DATE READY-FOR-TAKEOVER HAS BEEN ATTAINED.
6. THE ELECTRICAL CONTRACTOR SHALL SUBMIT ONE SET OF ELECTRONIC PDF SHOP DRAWINGS TO THE ARCHITECT FOR REVIEW. SHOP DRAWINGS TO INCLUDE ALL ELECTRICAL EQUIPMENT, DEVICES & ULC LISTED FIRE STOPPING DETAILS. MATERIALS **SHALL NOT BE ORDERED** UNTIL REVIEW HAS BEEN COMPLETED. APPROVAL IS FOR GENERAL DESIGN COMPLIANCE ONLY.
7. THE OWNERS RESERVE THE RIGHT TO ALTER THE LOCATION OF ANY ITEM UP TO TEN FEET (3m) WITHOUT INCURRING EXTRA COSTS, PROVIDED THE REQUEST IS MADE PRIOR TO INSTALLATION.
8. ALL MATERIAL AND EQUIPMENT USED ON THIS PROJECT SHALL BE C.S.A. APPROVED, ESA FIELD EVALUATED, OR MUST BEAR AN ESA RECOGNIZED CERTIFICATION MARK.
9. CUTTING AND PATCHING FOR ELECTRICAL WORK SHALL BE DONE BY THE GENERAL CONTRACTOR AT THE ELECTRICAL CONTRACTOR'S EXPENSE.
10. THE CONTRACTOR SHALL VISIT THE SITE AND EXAMINE THE EXISTING CONDITIONS AND THEN MAKE NECESSARY ALLOWANCES IN THEIR TENDER PRICE FOR REMOVAL, RELOCATION, REROUTING AND/OR RECONNECTION OF EXISTING ELECTRICAL EQUIPMENT AND WIRING, AS MAY BE NECESSARY FOR THE EXECUTION AND COMPLETION OF THIS PROJECT. EXTRA CHARGES FOR PREMIUM TIME LABOUR SHALL BE INCLUDED IN THE TENDER PRICE, ALLOWING FOR AFTER HOURS, WEEKEND AND HOLIDAY LABOUR REQUIREMENTS.
11. THE DRAWINGS AND SPECIFICATIONS SHALL BE READ IN CONJUNCTION WITH THE ARCHITECTURAL AND MECHANICAL DRAWINGS AND SPECIFICATIONS. ANY DISCREPANCIES OR CONTRADICTIONS SHALL BE BROUGHT TO THE CONSULTANT'S ATTENTION.
12. THE ELECTRICAL REQUIREMENTS OF ALL MECHANICAL EQUIPMENT **IS TO BE CONFIRMED** WITH MECHANICAL DRAWINGS & SCHEDULES PRIOR TO RELATED WORK.
13. ALL TEMPORARY LIGHTING AND POWER DURING CONSTRUCTION SHALL BE BY THE GENERAL CONTRACTOR AFTER AGREEMENT WITH THE ELECTRICAL CONTRACTOR. POWER SHALL BE PROVIDED FROM PANELS WITH REQUIRED SUPPLY AND CAPACITY.
14. REQUESTS FOR CONSIDERATION OF ALTERNATES SHALL BE IN ACCORDANCE WITH THE EQUIVALENCY PROCESS IN THE INVITATION TO TENDER ITT # FIN2026-152T BARRIE CITY HALL – FOURTH FLOOR RENOVATION, SECTION B. MATERIAL DISCLOSURES AND SHALL INCLUDE MANUFACTURER, MODEL, AND COST MODIFICATION. COSTS OF ANY CHANGE REQUIRED TO OTHER TRADES AS A RESULT OF USING ALTERNATE EQUIPMENT ARE TO BE INCURRED BY THE ELECTRICAL CONTRACTOR.
15. ALL CLAIMS FOR EXTRA WORK NOT COVERED IN THE CONTRACT TO BE SUBMITTED WITH A COMPLETE BREAKDOWN OF MATERIALS AND LABOUR.
16. DRAWINGS ARE NOT TO BE SCALED. ALL DIMENSIONS ARE TO BE TAKEN FROM THE ARCHITECTURAL DRAWINGS AND CONFIRMED ON SITE.
17. PROVIDE FIRE STOPPING PROTECTION FOR OPENINGS THROUGH ALL FIRE RATED ASSEMBLIES. ULC LISTED ASSEMBLY NUMBERS ARE TO BE USED.
18. LOW VOLTAGE CABLES (IE: NETWORK, SECURITY, CONTROL, ETC…) ROUTED WITHIN PLENUM SPACES SHALL BE FT6, CMP OR PLENUM RATED WHEN ROUTING THROUGH MECHANICAL CEILING PLENUMS.

MOUNTING HEIGHTS

1. DEVICE MOUNTING HEIGHT TO CENTRE OF DEVICE IS AS FOLLOWS:

• LIGHT SWITCHES	1090mm (or 1200mm IN SERVICE ROOMS)
• RECEPTACLE	400mm
• DATA OUTLETS	400mm
• THERMOSTATS	1400mm (or 1200mm BARRIER FREE PATH OF TRAVEL)
• POWER DOOR OPERATORS	1000mm
• FIRE ALARM HORN/STROBE	2300mm
• FIRE ALARM MANUAL PULL STATION	1150mm
• FIRE ALARM END OF LINE RESISTORS	1700mm
• OTHER BUILDING CONTROLS	1000mm

NOTE: AUDIBLE FIRE ALARM DEVICES TO BE AT LEAST 150mm BELOW CEILING.

ELECTRICAL EQUIPMENT, DEVICES & MATERIAL

1. ALL EQUIPMENT, DEVICES & MATERIAL TO BE INSTALLED AS PER MANUFACTURERS INSTRUCTIONS.
2. ALL BRANCH CIRCUIT WIRING SHALL BE RUN IN ELECTRICAL METALLIC TUBING (E.M.T.) OR FLEXIBLE ARMOURED CABLE (AC90) RECESSED IN WALLS OR CEILINGS EXCEPT WHERE SPECIFICALLY NOTED ON THE PLANS. ALL WIRING TO BE COPPER AND MINIMUM #12 AWG UNLESS STATED OTHERWISE.
3. ALL SURFACE WIRING SHALL BE T90/RW90 COPPER IN EMT CONDUIT WHERE WIRING AND CONDUIT CANNOT BE RECESSED.
4. ALL ELECTRICAL DEVICES AND LIGHTING CONTROLS, TO HAVE **TYPED CIRCUIT LABEL** ON DEVICE COVER PLATE. LABEL TO BE BLACK LETTERING ON CLEAR BACKING.
5. ELECTRICAL PANELS TO HAVE BOLT ON CIRCUIT BREAKERS. ALL PANELS TO HAVE HINGED LOCKABLE PANEL COVERS. PANELS SHALL HAVE TYPED DIRECTORIES.
6. ALL NON-RESIDENTIAL EQUIPMENT (PANELS, SWITCHBOARDS, SPLITTERS, TRANSFORMERS, ETC…) TO HAVE LAMACOID LABEL INDICATING: EQUIPMENT ID, VOLTAGE, PHASE/WIRE, AND "SUPPLIED FROM: EQUIPMENT ID".
7. ALL JUNCTION AND PULL BOXES ARE TO BE ACCESSIBLE AND BE PROVIDED WITH SCREWED PLATES COLOUR MATCHED TO ADJACENT WALL OR CEILING FINISHES.
8. PULL BOXES SHALL BE PROVIDED EVERY 30m AND EVERY THREE 90° BENDS.
9. ALL WIRING SHALL BE PARALLEL WITH ARCHITECTURAL LINES AND DESIGN.
10. PROVIDE A NYLON PULL STRING IN ALL EMPTY CONDUIT.
11. ALL NEW SWITCH AND RECEPTACLE DEVICES & PLATES SHALL BE WHITE. ALL DEVICES TO BE COMMERCIAL GRADE DECORA SERIES OR EQUAL UNLESS OTHERWISE STATED.
12. DO NOT MOUNT WALL OUTLETS BACK TO BACK IN WALLS, STAGGER TO PREVENT SOUND TRANSFER.
13. WIRING TO FIXTURES IN SUSPENDED CEILINGS IS TO CONSIST OF AC90 'DROPS' WITH A MAXIMUM LENGTH OF 4.5m (15 FT) AND T90 WIRING IN EMT CONDUIT BACK TO SOURCE PANEL.
14. ALL CONDUITS TO BE SECURELY FASTENED WITH APPROVED CLIPS AND SCREWS. NAILS OR TIE WIRES ARE NOT ACCEPTABLE.
15. ALL ELECTRICAL EQUIPMENT, DEVICES, AND WIRING ARE TO BE INDEPENDENTLY SUPPORTED. KEEP CLEAR OF MECHANICAL PIPING WHERE POSSIBLE.
16. WIRING FOR MECHANICAL EQUIPMENT SHALL BE AS DETAILED ON THE PLANS.
17. PROVIDE 21mm (3/4") CONDUIT RACEWAY BETWEEN MECHANICAL EQUIPMENT AND CONTROLS AS PER MECHANICAL AND ELECTRICAL PLANS.
18. PROVIDE EQUIPOTENTIAL BONDING OF NON-ELECTRICAL EQUIPMENT AS PER OESC 10-700, AND WIRE MESH/REBAR SUPPORTING ELECTRICAL RADIANT HEATING CABLES. REFER TO MECHANICAL AND ARCHITECTURAL PLANS.

COMMUNICATION SYSTEM

1. THE ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A COMPLETE EMPTY CONDUIT SYSTEM FOR COMMUNICATION OUTLETS AS SHOWN ON THE PLANS.
2. PROVIDE CONDUIT AS PER LOW-VOLTAGE DEVICE SCHEDULE. CONDUIT TO BE METALLIC CONDUIT & FIRE STOPPPED WHEN PENETRATING FIRE SEPARATIONS.
3. PROVIDE NYLON PULL STRING IN ALL EMPTY CONDUITS.

LIGHTING

1. SUPPLY AND INSTALL LIGHTING FIXTURES AND DEVICES AS NOTED ON THE PLANS AS PER THE MANUFACTURERS INSTALLATION INSTRUCTIONS.
2. INSTALL ALL FIXTURES PARALLEL WITH BUILDING LINES UNLESS INDICATED OTHERWISE.
3. FOR RECESSED FIXTURES (LED PUCK LIGHTS EXEMPTED) WITHIN SUSPENDED CEILINGS, PROVIDE EITHER:
   A. SAFETY 'JACK CHAIN' TO BUILDING STRUCTURE, OR
   B. MANUFACTURER APPROVED FASTENING DEVICES OR 'EARTHQUAKE CLIPS' FASTENED TO T-BAR.
4. INSTALL A SEPARATE NEUTRAL CONDUCTOR FOR EACH LIGHTING BRANCH CIRCUIT.
5. LIGHTING CONTROL WIRING NOT RUN WITHIN CONDUIT SHALL BE PLENUM RATED (FT6).

FIRE ALARM

GENERAL:
1. FIRE ALARM WIRING SHALL BE MINIMUM #18 AWG 300V FAS CABLE (WIRING TO BE SIZED BY FIRE ALARM VENDOR FOR VOLTAGE DROP) RUN AS FOLLOWS:
   A. EXPOSED WALL: SURFACE WALL WIRING SHALL BE FAS WIRING IN SURFACE METAL WIREMOLD PAINTED TO MATCH WALL WHERE WIRING AND CONDUIT CANNOT BE RECESSED.
   B. ACCESSIBLE CEILING SPACES, CONCEALED SPACES, FINAL DEVICE CONNECTIONS: ARMOURED FAS CABLE
   C. EXPOSED CEILING, RISER CLOSETS, SERVICE ROOMS: FAS WIRING IN EMT CONDUIT.
   D. BELOW GRADE: FAS WIRING IN CONCRETE ENCASED PVC CONDUIT.
2. COMMISSIONING OF LIFE SAFETY SYSTEMS **SHALL BE INCLUDED** IN ELECTRICAL CONTRACTORS PRICE.
3. FIRE ALARM SYSTEM SHALL BE INSTALLED IN CONFORMANCE WITH CAN/ULC-S524:2019, "INSTALLATION OF FIRE ALARM SYSTEMS".
4. FIRE ALARM SYSTEM SHALL BE VERIFIED IN CONFORMANCE WITH CAN/ULC-S537:2019, "VERIFICATION OF FIRE ALARM SYSTEMS" BY A THIRD PARTY (ARMS LENGTH).
5. ANNUNCIATOR PANEL TO BE UPDATED WITH NEW ZONES LABELS.
6. IF A FIRE ALARM OR VOICE COMMUNICATION SYSTEM OR ANY PART THEREOF IS SHUT DOWN:
   A. THE **FIRE DEPARTMENT AND BUILDING OCCUPANTS** SHALL BE NOTIFIED, AND
   B. IF APPLICABLE THE SUPERVISORY STAFF SHALL BE NOTIFIED, AND
   C. POST NOTICES ON ALL FLOORS BY ELEVATORS AND AT ENTRANCES, STATING THE SCOPE OF WORK AND WHEN IT IS EXPECTED TO BE COMPLETED.
   D. HAVE STAFF OR OTHER RELIABLE PERSON(S) PATROL THE AFFECTED AREA(S) AT LEAST ONCE EVERY HOUR. REFER TO CAN/ULC-S537:2019(18) APPENDIX B - ALTERNATE MEASURES FOR OCCUPANT FIRE SAFETY.
7. WHERE EXISTING, UNLESS NOTED OTHERWISE, FIRE ALARM TO BE KEPT. THE ELECTRICAL CONTRACTOR TO INCLUDE ALL COSTS ASSOCIATED WITH RELOCATION OF ANY DEVICES OR EQUIPMENT.
8. NEW LIFE SAFETY DEVICES SHALL BE COMPATIBLE WITH THE EXISTING SYSTEM. WHERE EXISTING ZONE CIRCUITS ARE USED TO FEED NEW DEVICES, CONTRACTOR TO CONFIRM EXISTING INITIATING AND ANNUNCIATING ZONE WIRING IS COMPLETE WITH A BOND WIRE PRIOR TO RELATED WORK.

EXISTING CONDITIONS

1. ELECTRICAL WORK AFFECTING OTHER TENANTS SHALL BE PERFORMED AFTER BUSINESS HOURS (EVENINGS AND WEEKENDS). COORDINATE WITH LANDLORD.
2. SERVICE AND DISTRIBUTION SYSTEM POWER INTERRUPTIONS SHALL BE KEPT TO A MINIMUM. POWER INTERRUPTIONS MUST BE COORDINATED WITH THE OWNER AND ALL OTHER TRADES BY THIS CONTRACTOR. WRITTEN APPROVAL FOR ELECTRICAL INTERRUPTIONS MUST BE RECEIVED FROM THE OWNER INDICATING THE DATE, TIME AND ESTIMATED DURATION OF THE INTERRUPTION. APPLICATION FOR APPROVAL OF THE POWER INTERRUPTIONS MUST BE SUBMITTED TO THE OWNERS AND/OR ARCHITECTS AT LEAST TWO WEEKS PRIOR TO THE REQUESTED SHUTDOWN DATE.
3. EXISTING ELECTRICAL EQUIPMENT, REMOVED AND INDICATED FOR REUSE, SHALL BE CLEANED BEFORE RE-INSTALLATION.
4. WIRING LOCATED IN AREAS BEING ALTERED OR DEMOLISHED, BUT FEEDING OUTLETS OR EQUIPMENT REQUIRED TO REMAIN IN SERVICE, MUST BE REWORKED IN ORDER TO MAINTAIN THE CONTINUITY OF THE EXISTING WIRING.
5. REPAIRS TO EXISTING WALLS, FLOORS, AND CEILINGS ARE TO BE PERFORMED BY THE GENERAL CONTRACTOR TO MEET THE EXISTING CONDITIONS.
6. SEQUENCE OF REMOVAL AND RELOCATION OF EXISTING EQUIPMENT AND WIRING SHALL BE COORDINATED WITH THE OTHER TRADES AND SHALL CONFORM TO THE REQUIREMENTS AND CONDITIONS OUTLINED.
7. THE CONTRACTOR SHALL PROVIDE ADEQUATE PROTECTION TO EXISTING WIRING AND EQUIPMENT THROUGHOUT THE PROJECT, PARTICULARLY WHERE WIRING AND ELECTRICAL EQUIPMENT HAVE BECOME EXPOSED TO MECHANICAL DAMAGE OR MOISTURE IN THE COURSE OF ALTERATIONS OR NEW CONSTRUCTION.
8. NEW OUTLETS AND EQUIPMENT SHOWN IN THE SAME LOCATION AS EXISTING OUTLETS MAY BE FED THROUGH THE EXISTING CONDUITS/WIRING, PROVIDED THAT THEY ARE IN GOOD CONDITION AND ARE ACCEPTABLE TO THE ESA INSPECTION DEPARTMENT.

DEMOLITION

1. ALL EXISTING ELECTRICAL EQUIPMENT, WIRING, AND ROUGH-IN DEVICES ARE TO BE REMOVED COMPLETE TO SUIT THE DEMOLITION AND RENOVATION OF THE SPACES. ALL EXISTING ELECTRICAL EQUIPMENT, NOT BEING REUSED, SHALL BECOME THE PROPERTY OF THE OWNER. ELECTRICAL CONTRACTOR SHALL PROPERLY DISPOSE OF EQUIPMENT NOT DESIRED BY OWNER .
2. ALL DEVICES & EQUIPMENT MADE OBSOLETE SHALL BE REMOVED FROM THE CONSTRUCTION SITE.

GENERAL CLOSE OUT PROCEDURES

1. **DOCUMENTS:** ELECTRICAL CONTRACTOR TO SUBMIT:
   - FIRE ALARM SYSTEM ULC-S537:2019 VERIFICATION REPORT (INCLUDING DEVICE & AUDIBILITY REPORT).
   - ESA CERTIFICATE OF INSPECTIONS;
   - SIGNED COPY OF EMERGENCY LIGHTING TEST REPORT. EMERGENCY LIGHTING TEST REPORT TO INDICATE TOTAL RUNTIME OF EMERGENCY LIGHTING ONCE NORMAL POWER IS LOST FOR EACH BATTERY SYSTEM. (MINIMUM 120MIN AS PER OBC:3.2.7.4(1b))
2. **TRAINING:** ELECTRICAL CONTRACTOR SHALL PROVIDE TRAINING SESSIONS TO THE OWNER ON ALL MAJOR ELECTRICAL SYSTEMS.
3. **COMMISSIONING:** ALL MAJOR SYSTEMS ARE TO BE COMMISSIONED BY THE MANUFACTURERS REPRESENTATIVE INCLUDING FIRE ALARM, LIGHTING CONTROL SYSTEMS.
4. **FUNCTIONAL TESTING** (AT CONTRACTORS EXPENSE):
   A. LIGHTING CONTROL SYSTEM TESTING SHALL INCLUDE OCCUPANCY SENSOR PLACEMENT, SENSITIVITY, AND CONTROL SETTING CALIBRATION. PROPERLY OPERATING OCCUPANCY SENSORS ARE TO TURN OFF LIGHTS WITHIN A REASONABLE PERIOD OF TIME IN UNOCCUPIED SPACES AND SHALL NOT ALLOW LIGHTS TO TURN ON UNLESS SPACE IS OCCUPIED. CONFIRM ALL TIME SWITCHES AND PROGRAMMABLE SCHEDULE CONTROLS ARE PROGRAMMED TO TURN THE LIGHTS OFF. COORDINATE WITH MECHANICAL, HVAC SYSTEM TO BE ON DURING TESTING.
   B. LIGHTING CONTROL SYSTEM FUNCTIONAL TESTING IS TO BE PERFORMED BY THIRD PARTY REPRESENTATIVE AS PER ASHRAE-90.1-2013 9.4.3. TESTING CERTIFICATION IS TO BE INCLUDED IN CLOSE-OUT DOCUMENTS AND PROVIDED TO THE CITY OF BARRIE COMMISSIONING AUTHORITY (COB-CXa) ALONG WITH ALL SYSTEM SUBMITTALS AND START-UP REPORTS.
   C. THE INTERCONNECTION OF LIGHTING CONTACTORS AND/OR CONTROL PANEL TO SECURITY SYSTEM OR TIMECLOCK TO BE TESTED TO ENSURE LIGHTING IS SHUT OFF WHEN SECURITY SYSTEM IS IN ARMED MODE OR TIMECLOCK INDICATES.
5. **OWNER COMMISSIONING:** THE CITY OF BARRIE COMMISSIONING AUTHORITY (COB-CXa) WILL PERFORM INDEPENDENT FUNCTIONAL TESTING OF THE SYSTEMS. CONTRACTOR SHALL COORDINATE WITH THE COB-CXa TO PROVIDE ACCESS, SCHEDULING, AND SUPPORT FOR THIS TESTING.
6. **RECORD DRAWINGS:** ELECTRICAL CONTRACTOR SHALL PROVIDE RECORD DRAWINGS OF ACTUAL INSTALLATION TO OWNERS WITHIN 30 DAYS OF SYSTEM ACCEPTANCE. DRAWINGS ARE TO INCLUDE SINGLE LINE DIAGRAM OF DISTRIBUTION SYSTEM; FLOOR PLANS SHOWING THE LOCATION OF DISTRIBUTION EQUIPMENT AND THE AREAS SERVED BY THAT EQUIPMENT; CHANGES TO LIGHTING, LIGHTING CONTROLS & CIRCUITING.

INSPECTIONS BY CONSULTANT

1. CONTRACTOR SHALL NOTIFY CONSULTANTS WHEN INSPECTIONS ARE REQUIRED. ALLOW FOR MINIMUM OF THREE BUSINESS DAYS OF NOTICE PRIOR TO INSPECTION.
2. INSPECTIONS ARE REQUIRED AT THE FOLLOWING MILESTONES:
   A. DEVICE ROUGH-IN (PRIOR TO DRYWALL)
   B. FINAL INSPECTION

PANEL: PP-A

Location: **Volts:** 208/120 WYE **A.I.C. Rating:**
Supply From: **Phases:** 3 **Mains Type:** MLO
Mounting: Surface **Wires:** 4 **Mains Rating:** 225 A
Enclosure: Type 1 **MCB Rating:**

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
A-1	IT Cabinet Rec and EF.1	20 A	1				1	15 A	Electrical Rm. Battery pack	A-2
A-3	Electrical Rm. Lights	15 A	1				1	15 A	Filing Area/Corridor Rec	A-4
A-5	Lighting Cct. 1	20 A	1				1	15 A	Spare	A-6
A-7	Lighting Cct. 2	20 A	1				1	20 A	Open Office Rec	A-8
A-9	Electrical Rm. Lights	15 A	1				1	20 A	Open Office Rec	A-10
A-11	Housekeeping Rec	20 A	1				1	15 A	Spare	A-12
A-13	Housekeeping Rec	20 A	1				1	15 A	Wall Fin Heaters	A-14
A-15	Ph. Rm. R4-17 &18	20 A	1				1	20 A	Conference Rm. Rec 1	A-16
A-17	Room R4-19 & 20 Rec	20 A	1				1	20 A	Conference Rm. Rec 2	A-18
A-19	Focus R4-15 Rec	20 A	1				1	20 A	Focus Rm R4-05 Rec	A-20
A-21	R4-14 Printer Rec	20 A	1				1	20 A	Office R4-06 Rec	A-22
A-23	Focus R4-16 Rec	20 A	1				1	20 A	Meeting R4-07 Rec	A-24
A-25	Focus R4-21 Rec	20 A	1				1	20 A	Meeting R5-08 Rec	A-26
A-27	Focus R4-22 Rec	20 A	1				1	20 A	Meeting R4-09 Rec	A-28
A-29	Bottle Refilling Station	15 A	1				1	20 A	Copy/Print Counter Rec	A-30
A-31	Huddle Booths Cubicle Rec	20 A	1				1	20 A	Copy/Print Machine Rec	A-32
A-33	Cafe/Collab R4-03 Rec	20 A	1				1	20 A	Copy/Print Machine Rec	A-34
A-35	Refridgerator	20 A	1				1	20 A	Library R4-10 Rec	A-36
A-37	Dishwasher	15 A	1				1	20 A	Library R4-10 Counter	A-38
A-39	Microwave Rec 1	20 A	1				1	20 A	Open Office Rec	A-40
A-41	Microwave Rec 2	20 A	1							A-42
A-43	Open Office Rec	20 A	1				1	15 A	Men's Washroom Hand dryer	A-44
A-45							1	20 A	Open Office Rec	A-46
A-47	Kitchen Counter Rec 1	20 A	1							A-48
A-49	Kitchen Counter Rec 2	20 A	1				1	15 A	Women's Washroom Hand dryer	A-50
A-51	Condensing Unit 1-6	15 A	2				2	15 A	BCM + BCS	A-52
A-53										A-54
A-55	Condensing Unit 7-12	15 A	2				2	15 A	Condensing Unit 13-19	A-56
A-57										A-58
A-59	Mitsubishi Monitor	15 A	1				1	15 A	Mitsubishi Monitor	A-60
A-61	Storage R4-11&12 Rec	20 A	1				1	20 A	Open Office Rec	A-62
A-63	R4-14 Counter Rec	20 A	1							A-64
A-65	Open Office Rec	20 A	1				1	20 A	Open Office Rec	A-66
A-67										A-68
A-69	Open Office Rec	20 A	1				1	20 A	Open Office Rec	A-70
A-71							1	20 A	Open Office Rec	A-72

Notes:
HATCH SHOWS EXISTING CIRCUIT TO BE REWORKED IN NEW PANEL PP-A

PANEL: PG-4

Location: Electrical Rm. **Volts:** 240/120 1Ø **A.I.C. Rating:**
Supply From: **Phases:** 1 **Mains Type:** C.B.
Mounting: Surface **Wires:** 3 **Mains Rating:** 50 A
Enclosure: Type 3 **MCB Rating:**

Notes:
Existing Square D QO Load Center Supplied from Generator

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
G-1	Main SW for Panel	50 A	1				1	50 A	Main SW for Panel	G-2
G-3	Plug Comm. Cabinet	15 A	1				1	15 A	Plug Design & Const.	G-4
G-5	Server Rack 1	20 A	1				1	15 A	Lighting	G-6
G-7	Server Rack 2	20 A	1				1	15 A	UPS	G-8

Notes:
QO8L100RB Series G05

DEVICE/EQUIPMENT OPTIONS & TAGS

?	SHEET NOTE LABEL - REFER TO SHEET NOTES
CL	CEILING MOUNT
FL	FLOOR MOUNT
GFI	DEVICE WIRED TO LOAD SIDE OF GFCI RECEPTACLE/BREAKER
RP	REPLACE EXISTING DEVICE WITH NEW DEVICE IN SAME LOCATION.
REL	RELOCATED DEVICE/EQUIPMENT. REWORK WIRING AS NEEDED. IF APPLICABLE PROVIDE NEW DEVICE BOX & CONNECTORS.

NEW DEVICE/EQUIPMENT
TO BE REMOVED
EXISTING TO REMAIN

TYPICAL SYMBOL LINETYPE FOR DEVICES or EQUIPMENT

1 New, Removed, Existing

2 Tags - Mechanical Equipment

RS-2 — EQUIPMENT TYPE ID (AS PER MECHANICAL EQUIPMENT SCHEDULE)
A-4/6/8 — EQUIPMENT CIRCUIT
@1800mm AFF — EQUIPMENT SPECIFIC DETAILS.
EQUIPMENT SYMBOL (VARIES)

3 Tags - Low Voltage Devices

27S — DEVICE TYPE ID (AS PER LOW VOLTAGE DEVICE SCHEDULE)
TV@1800mm — DEVICE SPECIFIC MOUNTING INSTRUCTIONS
DEVICE SYMBOL (VARIES)

DEVICES WITH UNIQUE SYMBOL & TYPE MAY NOT HAVE A TYPE ID.
DEVICES MOUNTED BESIDE COUNTER HEIGHT ELECTRICAL DEVICES ARE TO ALSO BE MOUNTED AT COUNTER HEIGHT.

4 Tags - Electrical Devices

RS-2 — DEVICE TYPE ID (AS PER ELECTRICAL DEVICE SCHEDULE)
A-4 — DEVICE CIRCUIT
TV@1800mm — DEVICE SPECIFIC DETAILS
DEVICE SYMBOL (VARIES)

5 Tags - Lighting Devices

V1 — DEVICE TYPE ID (AS PER LIGHTING CONTROL DEVICE SCHEDULE)
(Z1.1) — LIGHTING CONTROL ZONE ID
0-10V — 0-10V WIRING REQUIRED BETWEEN CONTROL DEVICE AND ALL LIGHTING FIXTURES WITHIN THE SAME CONTROL ZONE.
A-4 — CIRCUIT # USED FOR ZONE
DEVICE SYMBOL (VARIES)

Electrical Sheet List

Sheet #	Sheet Name
Addendum#8	Electrical Addendum
Addendum#8.Pg2	Electrical Addendum
Addendum#10	Unnamed
Addendum#10.Pg2	Unnamed
E1	Electrical Legend & Specification
E2	Demo - Electrical Plan
E3	Electrical Plan
E4	Electrical Details
E5	Electrical Schedules
Total: 9	

ELECTRICAL LEGEND

SCHEDULE (x = TYPE)	EXISTING	DEMO	NEW	DESCRIPTION
LIGHTING DEVICE SCHEDULES	$	$	$x	LIGHT SWITCH
	D	D	Dx	DIMMER SWITCH
	MS	MS	MSx	LIGHTING MOTION SENSOR
	PP	PP	PPx	LIGHTING POWER PACK
	TC	TC	TCx	LIGHTING TIME CLOCK
	CNT	CNT	CNTx	LIGHTING CONTACTOR
LIGHTING FIXTURE SCHEDULES				EXIT SIGN, CEILING MOUNT, HATCH = SIGN, ARROW = DIRECTION
				EXIT SIGN, WALL MOUNT, HATCH = SIGN, ARROW=DIRECTION
				EXIT / EMERG COMBO, WALL MOUNT, HATCH=SIGN, ARROW=DIRECTION
			x	EMERGENCY LIGHT, BATTERY UNIT
			x	EMERGENCY LIGHT, REMOTE HEAD
			x	LIGHTING FIXTURE
			x	WALL MOUNTED LIGHTING FIXTURE
			x	LIGHTING FIXTURE
			x	NIGHT LIGHTING FIXTURE
	JL	JL	JLx	LIGHTING JUNCTION BOX
ELECTRICAL EQUIPMENT SCHEDULES				ELECTRICAL POWER PANEL
				ELECTRICAL DISCONNECT (FUSED OR UNFUSED)
				ELECTRICAL EQUIPMENT - MISCELLANEOUS
MECHANICAL EQUIPMENT SCHEDULES	M	M	Mx	MECHANICAL EQUIPMENT CONTROL
	M	M	Mx	MECHANICAL EQUIPMENT - HARDWIRE CONNECTION
	M	M	Mx	MECHANICAL EQUIPMENT c/w LOCAL DISCONNECT
	M	M	Mx	MECHANICAL EQUIPMENT - DUPLEX RECEPTACLE 15A
	M	M	Mx	MECHANICAL EQUIPMENT - DUPLEX RECEPTACLE 20A
ELECTRICAL DEVICE SCHEDULES				#6 AWG CU TO BUILDING GROUND
			x	HARDWIRE CONNECTION
			x	DUPLEX RECEPTACLE 15A
			x	DUPLEX RECEPTACLE 15A - COUNTER (100mm ABOVE BACKSPLASH)
			x	DUPLEX RECEPTACLE 20A
			x	DUPLEX RECEPTACLE 20A - COUNTER (100mm ABOVE BACKSPLASH)
			x	SPECIAL RECEPTACLE
			x	QUAD RECEPTACLE 15A, 2-GANG, TWO DUPLEX 15A
			x	QUAD RECEPTACLE 20A, 2-GANG, TWO DUPLEX 20A
			x	FLOOR BOX
			x	BASE POWER FURNITURE FEED
	JB	JB	JBx	POWER JUNCTION BOX
LOW VOLTAGE DEVICE SCHEDULES			x	DATA OUTLET
				COMMUNICATION BACKBOARD - PLYWOOD GOOD ONE SIDE
	CR	CR	CR	CARD READER/FOB
	CAM	CAM	CAMx	SECURITY CAMERA
FIRE ALARM DEVICE SCHEDULES				FIRE ALARM MANUAL PULL STATION
				FIRE ALARM HORN
			zz	FIRE ALARM HORN STROBE (zz = CANDELA, 15cd DEFAULT)
			zz	FIRE ALARM STROBE (zz = CANDELA, 15cd DEFAULT)
	SD	SD	SDx	FIRE ALARM SMOKE DETECTOR
	HD	HD	HD	FIRE ALARM HEAT DETECTOR
	SD R	SD R	SD R	FIRE ALARM SMOKE DETECTOR c/w FORM 'C' RELAY SUB-BASE
	HD R	HD R	HD R	FIRE ALARM HEAT DETECTOR c/w FORM 'C' RELAY SUB-BASE

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DRAWINGS ARE NOT TO BE SCALED.

NO.	DESCRIPTION	DATE
14	Issued For Addendum#10	Oct 30, 2026
13	Issued For Addendum#8	Sep 29, 2026
12	Issued For EADD#1	Sep 04, 2026
11	Relssued for Permit	Jul 29, 2026
10	Issued for EADD#2	Jul 24, 2026

REVISION SCHEDULE

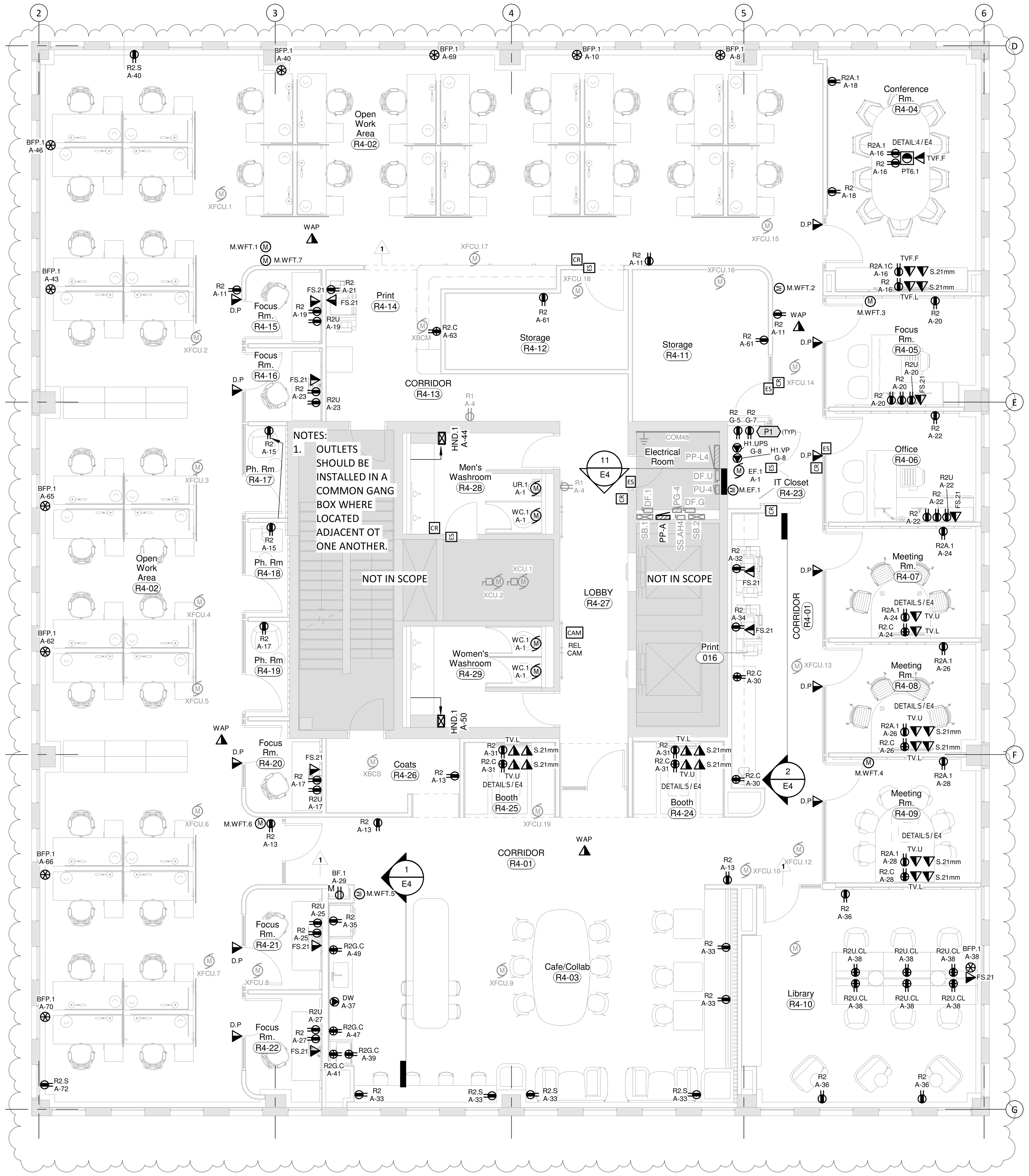
ROOT3 Engineering
1920 YONGE ST, SUITE 200
TORONTO, ON, M4S 3E2

PROJECT NAME
Barrie City Hall - 4th Floor
70 Collier Street, Barrie, ON

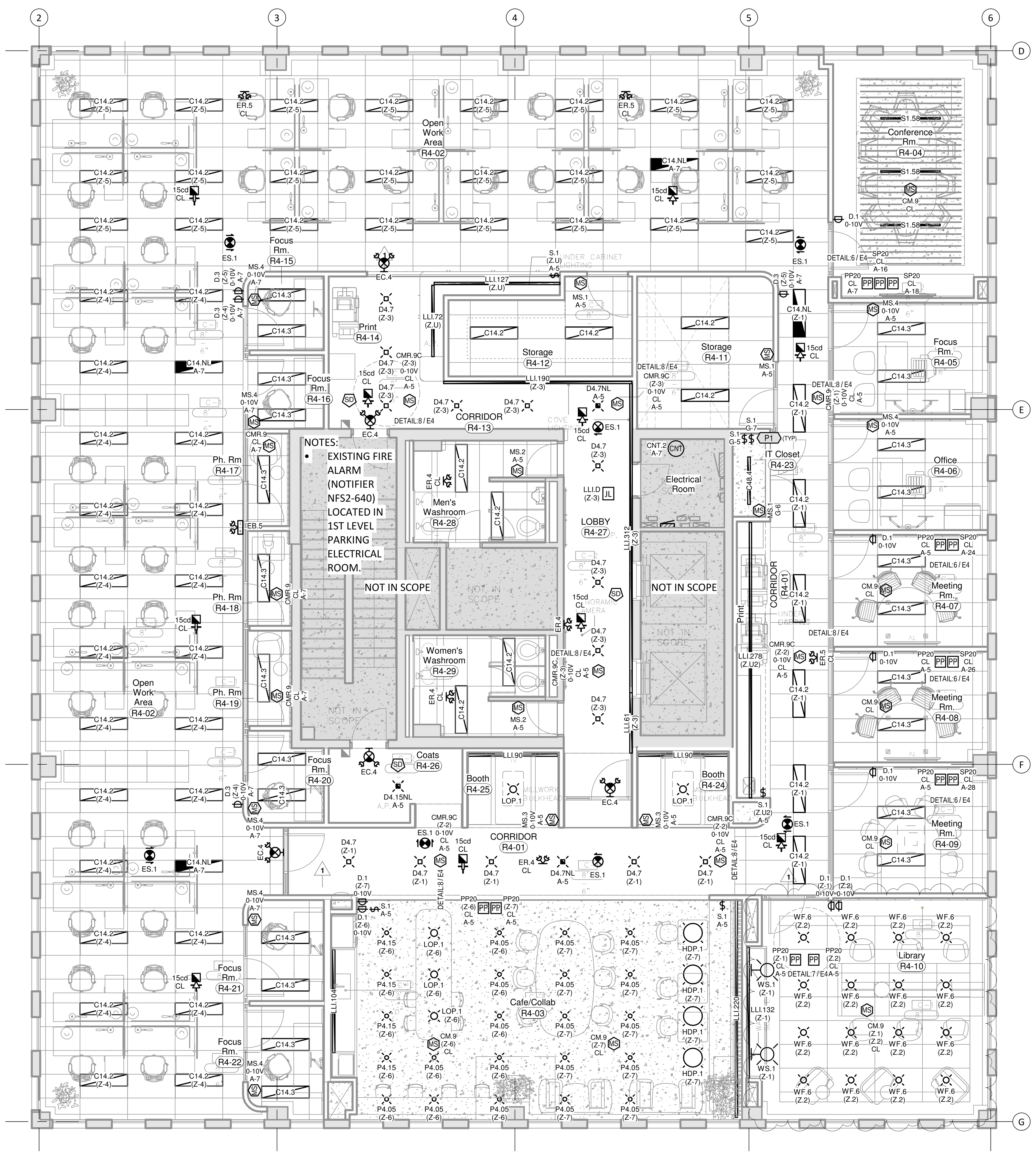
DRAWING TITLE
Electrical Legend & Specification

SCALE 1 : 1
SHEET SIZE 24"x36"
PROJECT NUMBER 24143
DRAWING NUMBER **E1**
DESIGNER SSA

NOTE:
- WALL LIGHT LOCATIONS TO BE CONFIRMED WITH OWNER AND CONSULTANT PRIOR TO INSTALL / ROUGH-IN



1 4th Floor - Power & Data Plan
1 : 75 | Addendum#10



2 4th Floor - Lighting & Life-Safety
1 : 75 | Addendum#10

2 - Total New/Relocated - Electrical Equipment Schedule

CURRENT SCHEDULE PHASE: Addendum#10 SHOWING PHASE ITEMS: Show Previous + New

Qty	Equip ID	Description	Type Comments	Enclosure	Mounting	Phase Added
2	HND.1	Hand Dryer Dyson Airblade V Low voltage	Provide Dyson Airblade V Quiet low voltage hand dryer or approved equivalent Surface-Mounted ADA Compliant Hand Dryer, 120V, 12A 1000W; nickel finish; 12 second drytime; 79dbA, 59 CFM; Automatic; 15-1/2" H x 4" D x 9-1/4" W; Mounted at 1170mm Mens, 1120mm Womens Washroom.	Type 1	Surface	Tender
1	PP-A	Panelboard - 4th Floor	208/120V 3Ø4W 100A; Bolt On Breakers	Type 1	Surface	Addendum#10
Total: 3						

Sheet Notes

#	NOTE
P1	CONFIRM FINAL LOCATION ON SITE FOR THE RECEPTACLES, SWITCHES, HARDWIRE FOR VALCOM PAGING (OR APPROVED EQUIVALENT) & HARDWIRE FOR UPS IN IT CLOSET R4-23.

7 - Total New/Relocated - Mechanical Equipment Schedule

E=Electrical, M=Mechanical

CURRENT SCHEDULE PHASE: Addendum#10 SHOWING PHASE ITEMS: Show Previous + New

	EQUIPMENT		ELECTRICAL					REMOTE ITEMS					
QTY	Type ID	Description	VOLTAGE	PHASE	hp - A - KW	MCA	MOCP	Interlock With	Isolation Switch By	Weather Proof	Wiring By:	Item Comments	Phase Added
1	BF.1	Bottle Filler	120 V	1	370W	15 A	15 A			No			Tender
1	EF.1	Exhaust Fan	120 V	1		15 A	15 A			No			Tender
1	UR.1	Automatic Plumbing	120 V	1		0 A	0 A			No		Hardwire for 120:24V 50VA Transformer for automatic plumbing fixtures.	Addendum#10
3	WC.1	Automatic Plumbing	120 V	1		0 A	0 A			No		Hardwire for 120:24V 50VA Transformer for automatic plumbing fixtures.	Addendum#10
6													

8 - Total New/Relocated - Mechanical Equipment Controls Schedule

(M)x

CURRENT SCHEDULE PHASE: Addendum#10 SHOWING PHASE ITEMS: Show Previous + New

Qty	Type ID	Mfg. (or Equal)	Model	Contractor Supplied Control	Description	Type Comments	Phase Added
1	M.EF.1			No	Reverse Acting Thermostat	Controls EF1. Surface mount device box.	Tender
1	M.WFT.1			No	Wall Fin Perimeter Heater Zone Thermostat	Serves WF.1. Surface mount device box. c/w 24V control transformer (by mechanical)	Addendum#10
1	M.WFT.2			No	Wall Fin Perimeter Heater Zone Thermostat	Serves WF.2. Surface mount device box. c/w 24V control transformer (by mechanical)	Addendum#10
1	M.WFT.3			No	Wall Fin Perimeter Heater Zone Thermostat	Serves WF.3. Surface mount device box. c/w 24V control transformer (by mechanical)	Addendum#10
1	M.WFT.4			No	Wall Fin Perimeter Heater Zone Thermostat	Serves WF.4. Surface mount device box. c/w 24V control transformer (by mechanical)	Addendum#10
1	M.WFT.5			No	Wall Fin Perimeter Heater Zone Thermostat	Serves WF.5. Surface mount device box. c/w 24V control transformer (by mechanical)	Addendum#10
1	M.WFT.6			No	Wall Fin Perimeter Heater Zone Thermostat	Serves WF.6. Surface mount device box. c/w 24V control transformer (by mechanical)	Addendum#10
1	M.WFT.7			No	Wall Fin Perimeter Heater Zone Thermostat	Serves WF.7. Surface mount device box. c/w 24V control transformer (by mechanical)	Addendum#10
Total: 8							

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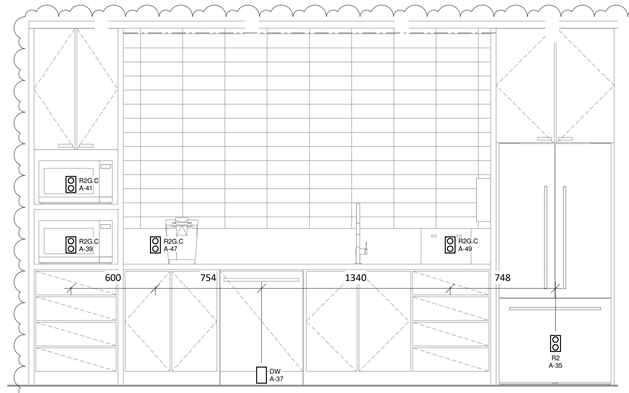
REVISION SCHEDULE

ROOT3 Engineering
1920 YONGE ST, SUITE 200
TORONTO, ON, M4S 3E2

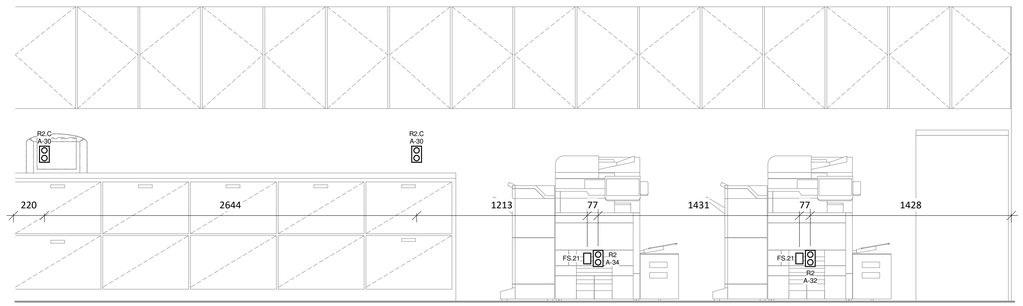
PROJECT NAME
Barrie City Hall - 4th Floor
70 Collier Street,
Barrie, ON

DRAWING TITLE
Electrical Plan

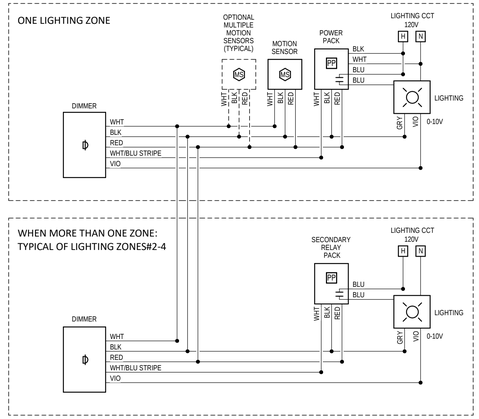
SCALE 1 : 75
SHEET SIZE 24"x36"
PROJECT NUMBER 24143
DRAWING NUMBER **E3**
DESIGNER SSA



1 Lunchroom Millwork
1 : 20



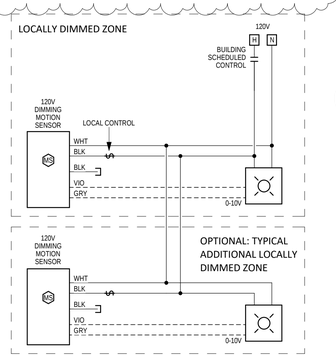
2 Printer/Supply Millwork
1 : 20



WIRING DIAGRAM FOR UP TO 4 DIMMABLE MOTION CONTROLLED LIGHTING ZONES

EACH LIGHTING ZONE IS CONTROLLED BY IT'S OWN DIMMER SWITCH. MOTION SENSORS FROM ALL ZONES DETERMINE OCCUPANCY. MULTIPLE MOTION SENSORS PER ZONE MAY BE USED TO INCREASE COVERAGE. DIMMER TYPE DETERMINES AUTO-ON OR MANUAL-ON, AS PER SCHEDULE.

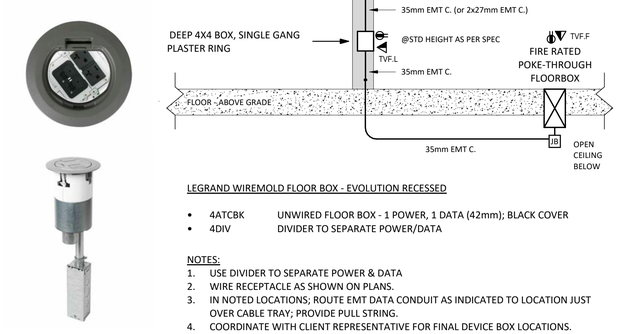
7 One Or More Dimming Zones



WIRING DIAGRAM FOR LOCAL MOTION CONTROLLED LIGHTING ZONE(S) TO DIMMED TO 50%.

INDIVIDUAL LIGHTING OR LIGHTING GROUPS CONTROLLED ON/OFF BY LOCAL SWITCH AND/OR BUILDING SCHEDULED CONTROL (TIMECLOCK OR ALARM CONTACT). DIMMING MOTION SENSOR DIMS LIGHTING TO 50% IN UNOCCUPIED STATE.

8 120V - Vacancy Dimming - 50%



LEGRAND WIREMOLD FLOOR BOX - EVOLUTION RECESSED

- 6ACT2BK UNWIRED FLOOR BOX - 2 POWER, 1 DATA (35mm); BLACK COVER
- 1125CHA 1-GANG 35MM CONDUIT HOUSING ASSEMBLY
- 1BHA BOTTOM HOUSING ASSEMBLY
- 2 x 68REC DUPLEX RECEPTACLE MOUNTING PLATES

NOTES:
1. WIRE RECEPTACLE AS SHOWN ON PLANS.
2. COORDINATE WITH CLIENT REPRESENTATIVE FOR FINAL DEVICE BOX LOCATIONS.
3. COORDINATE WITH MANUFACTURER FOR ALL REQUIRED PARTS TO PROVIDE A COMPLETE SYSTEM. MAJOR COMPONENTS LISTED ABOVE.

3 Floor Box - Recessed Poke-Through

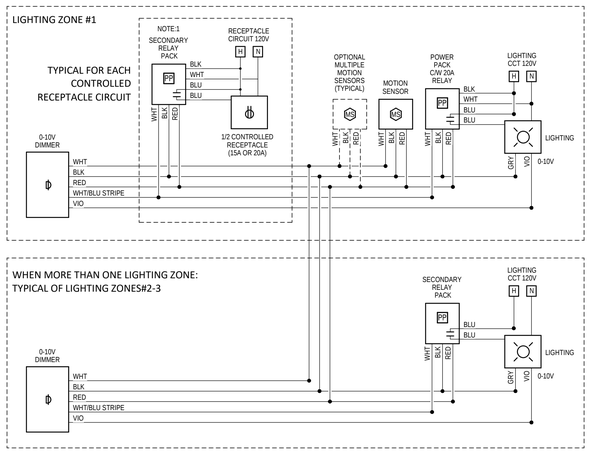
LEGRAND WIREMOLD FLOOR BOX - EVOLUTION RECESSED

- 4ATCBK UNWIRED FLOOR BOX - 1 POWER, 1 DATA (42mm); BLACK COVER
- 4DIV DIVIDER TO SEPARATE POWER/DATA

NOTES:
1. USE DIVIDER TO SEPARATE POWER & DATA
2. WIRE RECEPTACLE AS SHOWN ON PLANS.
3. IN NOTED LOCATIONS; ROUTE EMT DATA CONDUIT AS INDICATED TO LOCATION JUST OVER CABLE TRAY; PROVIDE PULL STRING.
4. COORDINATE WITH CLIENT REPRESENTATIVE FOR FINAL DEVICE BOX LOCATIONS.
5. COORDINATE WITH MANUFACTURER FOR ALL REQUIRED PARTS TO PROVIDE A COMPLETE SYSTEM. MAJOR COMPONENTS LISTED ABOVE.

4 Floor Box / TV - Recessed Poke-Through

5 TV - Conduit Detail



WIRING DIAGRAM FOR UP TO 3 DIMMABLE MOTION CONTROLLED LIGHTING ZONES WITH RECEPTACLE CONTROL

EACH LIGHTING ZONE IS CONTROLLED BY IT'S OWN DIMMER SWITCH. MOTION SENSORS FROM ALL ZONES DETERMINE OCCUPANCY. MULTIPLE MOTION SENSORS PER ZONE MAY BE USED TO INCREASE COVERAGE. DIMMER TYPE DETERMINES AUTO-ON OR MANUAL-ON, AS PER SCHEDULE. RECEPTACLES ARE WIRED AS SPLIT RECEPTACLES, 1/2 CONTROLLED, 1/2 ALWAYS ON. (15A REC: LEVITON 16252-1PW, 20A REC: LEVITON 16352-1PW OR EQUAL).

NOTE:
1. MAXIMUM 3 SLAVE PACKS PER POWER PACK, AND UP TO 7 SENSORS. ONE SLAVE PACK WILL BE REPLACED WITH POWER PACK IF MORE SECONDARY PACKS OR SENSORS ARE REQUIRED.

6 One Or More Dimming Zones



11 Electrical Room

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REVISION SCHEDULE

ROOT3 Engineering
1920 YONGE ST, SUITE 200
TORONTO, ON, M4S 3E2

PROJECT NAME
Barrie City Hall - 4th Floor
70 Collier Street,
Barrie, ON

DRAWING TITLE
Electrical Details

SCALE
As indicated

SHEET SIZE
24"x36"

PROJECT NUMBER
24143

DRAWING NUMBER
E4

DESIGNER SSA

1 - Total Removed - Low Voltage Device Schedule

CURRENT SCHEDULE PHASE: Tender — SHOWING PHASE ITEMS: Show Previous + Demo

QTY	Type	Conduit	Description	Phase Added	Phase Removed
1	CAM	21mm EMT	Security Camera. EMT Conduit to Accessible ceiling space; Conduit Bushing	EXISTING	Addendum#10
2	CR	16mm EMT	Security Card Reader. Device box & conduit to accessible ceiling within Tenant office space;	EXISTING	Tender
7	FS.21	21mm EMT	Std. recessed device Box & conduit to accessible ceiling; Conduit Bushing	EXISTING	Tender
Total: 10					

2 - Total Removed - Electrical Equipment Schedule

CURRENT SCHEDULE PHASE: Tender — SHOWING PHASE ITEMS: None

Qty	Equip ID	Description	Type Comments	Enclosure	Mounting	Phase Added	Phase Removed
2	X.HND	Hand Dryer	Existing Dyson Hand Dryer	Type 1	Surface	EXISTING	Tender
1	PP-4	Panelboard - 4th Floor	208/120V 3ϕ4W 100A; Bolt On Breakers	Type 1	Surface	EXISTING	Addendum#10
Total: 3							

3 - Total Removed - Electrical Device Schedule

CURRENT SCHEDULE PHASE: Tender — SHOWING PHASE ITEMS: Show Previous + Demo

Qty	Type ID	Description	Type Comments	Phase Added	Phase Removed
65	R1	15A Duplex Receptacle;1-Gang Box	120V 5-15R; 1-Gang Box	EXISTING	Tender
6	R1.C	15A Duplex Receptacle	120V 5-15R; Mounted at Counter Height, 4" Above Backsplash.	EXISTING	Tender
2	R1G.C	15A Duplex Receptacle	120V 5-15R; Class A - GFI Receptacle; Mounted at Counter Height, 4" Above Backsplash.	EXISTING	Tender
1	R1Q	15A Quad Receptacle	120V 5-15R; Two - 15A Duplex Receptacles, in 2 Gang Box	EXISTING	Tender
Total: 74					

4 - Total Removed - Fire Alarm Device Schedule

CURRENT SCHEDULE PHASE: Tender — SHOWING PHASE ITEMS: Show Previous + Demo

QTY	Model	Description	Type Comments	Phase Added	Phase Removed
4		ANNUNCIATING	Horn	EXISTING	Tender
Total: 4					

5 - Total Removed - Lighting Control Device Schedule

CURRENT SCHEDULE PHASE: Tender — SHOWING PHASE ITEMS: Show Previous + Demo

Qty	Type	Mfg.	Model	Description	Type Comments	Phase Added	Phase Removed
33	S.1	TBD	TBD	Switch, 1-Pole Architectural Decora Style	120V	EXISTING	Tender
Total: 33							

6 - Total Removed - Lighting Fixture Schedule

CURRENT SCHEDULE PHASE: Tender — SHOWING PHASE ITEMS: Show Previous + Demo

Qty	Image	Type	Mfg.	Model#	Mounting	Height	Description	Remarks	Phase Added	Phase Removed
4		X.C14S	TBD	TBD	Surface		TBD	TBD	EXISTING	Tender
12		X.C22	TBD	TBD			TBD	TBD	EXISTING	Tender
96		X.C24	TBD	TBD			TBD	TBD	EXISTING	Tender
4		X.ER2		Existing	Ceiling	2300mm	Emergency Remote - 2 Head;	Assumed 9W Incandescent	EXISTING	Tender
5		X.ESR		Existing	Ceiling	Ceiling	Emergency Exit Sign - Ceiling Mount; Red Letters		EXISTING	Tender
2		X.ESW		Existing	Wall	2300mm	Emergency Exit Sign - Ceiling Mount; Red Letters		EXISTING	Tender
9		X.PL	TBD	TBD			TBD	TBD	EXISTING	Tender
Total: 132										

6 - Total New/Relocated - Lighting Fixture Schedule

CURRENT SCHEDULE PHASE: Addendum#10 — SHOWING PHASE ITEMS: Show Previous + New

Qty	Image	Type	Mfg.	Model# or approved equivalent	Mounting	Height	Description	Remarks	Phase Added
53		C14.2	Lithonia	CPANL 1X4 24/33/44LM 40K	Recessed	Ceiling	LED 1x4 Flat Panel	120V, 20/28/39W; 2400/3300/4400 Lumen; 80 CRI; 4000K; Set Fixture to 2400 Lumens	Tender
23		C14.3	Lithonia	CPANL 1X4 24/33/44LM 40K	Recessed	Ceiling	LED 1x4 Flat Panel	120V, 20/28/39W; 2400/3300/4400 Lumen; 80 CRI; 4000K; Set Fixture to 3300 Lumens	Tender
3		C14.NL	Lithonia	CPANL 1X4 24/33/44LM 40K	Recessed	Ceiling	LED 1x4 Flat Panel	120V, 20/28/39W; 2400/3300/4400 Lumen; 80 CRI; 4000K; Set Fixture to 2400 Lumens Connect to line side of local lighting circuit.	Tender
1		C48.4	Lithonia	CSS L48 4000LM MVOLT 40K 80CRI	Surface	Ceiling	LED Strip Light	35.3W 4298Lumens 4' 120-277V 4000K 80CRI; Class 2 0-10V Dimmable	Tender
11		D4.7	Gotham Lighting	IVO4SQ-D-07LM-40K-80CRI-MD-MVOLT-MIN10-ZT-SF-P-AR-LSS	Recessed	Ceiling	Square Downlight	4" Square Recessed Downlight, 773Lumens/7.3W, 4000K 80+CRI, 120-277V Min 10% Dim level(0-10V), Medium Batwing, Single Fuse, Trim: Parabolic, Clear metalized, Semi Specular Finish	Tender
2		D4.7NL	Gotham Lighting	IVO4SQ-D-07LM-40K-80CRI-MD-MVOLT-MIN10-ZT-SF-P-AR-LSS	Recessed	Ceiling	Square Downlight	4" Square Recessed Downlight, 773Lumens/7.3W, 4000K 80+CRI, 120-277V Min 10% Dim level(0-10V), Medium Batwing, Single Fuse, Trim: Parabolic, Clear metalized, Semi Specular Finish. Connect to line side of local lighting circuit.	Tender
1		D4.15NL	Gotham Lighting	IVO4SQ-D-15LM-40K-80CRI-MD-MVOLT-MIN10-ZT-SF-P-AR-LSS	Recessed	Ceiling	Square Downlight	4" Square Recessed Downlight, 1562Lumens/15W, 4000K 80+CRI, 120-277V Min 10% Dim level(0-10V), Medium Batwing, Single Fuse, Trim: Parabolic, Clear metalized, Semi Specular Finish. Connect to line side of local lighting circuit.	Tender
3		EC.4	Lumacell	LAC.1.W.1280.2.LD7.ZC	Wall	2300mm	Steel Combo Running Man Pictogram Exit; Universal Faces	12V; 80W for 120min; 2-4W MR16 LED Heads; Single Face; Factory White; Don't exceed battery capacity with additional remote lighting heads; 120/277VAC input, Connect to Line Side of Local Lighting Circuit	Tender
4		ER.4	Lumacell	M.QM.2.LD7	Wall	2300mm	Thermoplastic Mini Remote Heads	12V; 2-4W MR16 LED Heads; Fire-retardant thermoplastic; Factory White; Connect to nearest battery unit without exceeding battery capacity	Tender
3		ER.5	Lumacell	M.QM.2.LD9	Wall	2300mm	Thermoplastic Mini Remote Heads	12V; 2-5W MR16 LED Heads; Fire-retardant thermoplastic; Factory White; Connect to nearest battery unit without exceeding battery capacity	Tender
7		ES.1	Lumacell	LDE.A.W.F.SD	Ceiling	Ceiling	Running Man Pictogram Exit Sign	LED; die-cast aluminum construction; 120min internal battery; universal two-face, arrow lef-right; 120-347VAC, consumes less than 3.5W	Tender
4		HDP.1	Axis Lighting	HDPD-SO-LO-90CRI-40K-UNV-DP-FCPR-TLF(L)	Pendant	Ceiling	19"ϕ Helios Disk, Pendant	Helios Disk Pendant, 1710Lumens/21.72W, 4000K 90+CRI, Universal Voltage, Spotless Lens, dimming (0-10V), mounted flat stand alone canopy w/ remote driver, Cable length adjustable	Tender
2		LLI.90	LLI Lighting	LLI-FLX-WF-T1.5-42K-90IN c/w LLI-PS-NDE-030W-24V-KO(Driver)	Surface	Cove	LED Cove Tape Light + Flex Extrusion	1.5W/ft; 157lm/ft; 24VDC; White Powder Coat Finish; Frosted Lens; 4200K; 90 Inches long. 1" Cut Points; c/w Non-dimmable electronic 30W; 120:24V; Class 2 Driver mounted on cove; Line Voltage No Dimming	Tender

6 - Total New/Relocated - Lighting Fixture Schedule

CURRENT SCHEDULE PHASE: Addendum#10 — SHOWING PHASE ITEMS: Show Previous + New

Qty	Image	Type	Mfg.	Model# or approved equivalent	Mounting	Height	Description	Remarks	Phase Added
1		LLI.104	LLI Lighting	LLI-FLX-WF-T1.5-42K-104IN c/w LLI-PS-NDE-030W-24V-KO(Driver)	Surface	Cove	LED Cove Tape Light + Flex Extrusion	1.5W/ft; 157lm/ft; 24VDC; White Powder Coat Finish; Frosted Lens; 4200K; 104 Inches long. 1" Cut Points; c/w Non-dimmable electronic 30W; 120:24V; Class 2 Driver mounted on cove	Tender
1		LLI.132	LLI Lighting	LLI-FLX-WF-T1.5-42K-132IN c/w LLI-PS-NDE-030W-24V-KO(Driver)	Surface	Cove	LED Cove Tape Light + Flex Extrusion	1.5W/ft; 157lm/ft; 24VDC; White Powder Coat Finish; Frosted Lens; 4200K; 132 Inches long. 1" Cut Points; c/w Non-dimmable electronic 30W; 120:24V; Class 2 Driver mounted on cove, Line Voltage No Dimming	Tender
1		LLI.220	LLI Lighting	LLI-FLX-WF-T1.5-42K-220IN c/w LLI-PS-NDE-030W-24V-KO(Driver)	Surface	Cove	LED Cove Tape Light + Flex Extrusion	1.5W/ft; 157lm/ft; 24VDC; White Powder Coat Finish; Frosted Lens; 4200K; 220 Inches long. 1" Cut Points; c/w Non-dimmable electronic 30W; 120:24V; Class 2 Driver mounted on cove	Tender
5		LOP.1	Axis Lighting	LOPD-SO-STR-1200-90CRI-40K-UNV-DP-FCPR-TLA(L)	Pendant	Ceiling	7"ϕ Luna Orb, Pendant	Luna Orb Pendant, 1200Lumens/15W, 4000K 90+CRI, Universal Voltage, Spotless Lens, Straight Orientation, dimming (0-10V), mounted flat stand alone canopy w/ remote driver, Cable length adjustable	Tender
18		P4.05	Gotham Lighting	IVO4CYL-PC-D-05LM-40K-80CRI-WD-MIN10-MVOLT-ZT-L9-JBX	Pendant	Ceiling	Cylinder Downlight, Pendant	4"ϕ Cylinder, Pendant Downlight, 493Lumens/5.1W, 4000K 80+CRI, Wide Batwing, Min 10% Dim Level, 120V-277V, Generic 0-10V, Standard 9" Cylinder, Integral driver mounted on recessed or surface j-box	Tender
4		P4.15	Gotham Lighting	IVO4CYL-PC-D-15LM-40K-80CRI-WD-MIN10-MVOLT-ZT-L9-JBX	Pendant	Ceiling	Cylinder Downlight, Pendant	4"ϕ Cylinder, Pendant Downlight, 1486Lumens/15.0W, 4000K 80+CRI, Wide Batwing, Min 10% Dim Level, 120V-277V, Generic 0-10V, Standard 9" Cylinder, Integral driver mounted on recessed or surface j-box	Tender
3		S1.58	Mark Architectural Lighting	S1PD-MSLS-90CRI-40K-800LMF-SCT-MIN10-FLL-MVOLT-ZT-F1/36A	Pendant	Ceiling	LED Strip Light, Pendant	Slot 1 5ft Pendant Direct, 90CRI 4000K 800Lumens/7Watts per foot, 120-277V Constant current-dimming to 10%(0-10V), Single Circuit, Flush Lens, T-bar ceiling mounting c/w 36in adjustable suspension	Tender
2		WS.1	RBW	DP-D-WS-S1-PC92-40-1_10V_UNV	Wall	~2430mm	Wall Sconce	879Lumens/19.7W; 4000K CCT; 0-10V Dimming Control; 120-277V c/w external driver; White Interior Glass, Natural Backplate finish; wall light locations to be confirmed with Owner and Consultant prior to install / rough-in	Tender
6		C14.2	Lithonia	CPANL 1X4 24/33/44LM 40K	Recessed	Ceiling	LED 1x4 Flat Panel	120V, 20/28/39W; 2400/3300/4400 Lumen; 80 CRI; 4000K; Set Fixture to 2400 Lumens	Addendum#10
1		C14.NL	Lithonia	CPANL 1X4 24/33/44LM 40K	Recessed	Ceiling	LED 1x4 Flat Panel	120V, 20/28/39W; 2400/3300/4400 Lumen; 80 CRI; 4000K; Set Fixture to 2400 Lumens Connect to line side of local lighting circuit.	Addendum#10
3		D4.7	Gotham Lighting	IVO4SQ-D-07LM-40K-80CRI-MD-MVOLT-MIN10-ZT-SF-P-AR-LSS	Recessed	Ceiling	Square Downlight	4" Square Recessed Downlight, 773Lumens/7.3W, 4000K 80+CRI, 120-277V Min 10% Dim level(0-10V), Medium Batwing, Single Fuse, Trim: Parabolic, Clear metalized, Semi Specular Finish	Addendum#10
1		EB.5	Lumacell	12LSM110-2-150-LI	Wall	2300mm	LS Series Emergency Battery Remote Head	Off White, 12V, 110 Watts lead-calcium, 2 heads, EF150 (MR16 lamp heads), 12V-5W, MR16 LED.	Addendum#10
2		EC.4	Lumacell	LAC.1.W.1280.2.LD7.ZC	Wall	2300mm	Steel Combo Running Man Pictogram Exit; Universal Faces	12V; 80W for 120min; 2-4W MR16 LED Heads; Single Face; Factory White; Don't exceed battery capacity with additional remote lighting heads; 120/277VAC input, Connect to Line Side of Local Lighting Circuit	Addendum#10
1		LLI.61	LLI Lighting	LLI-FLX-WF-T1.5-42K-61IN	Surface	Cove	LED Cove Tape Light + Flex Extrusion	1.5W/ft; 157lm/ft; 24VDC; White Powder Coat Finish; Frosted Lens; 4200K; 61 Inches long. 1" Cut Points	Addendum#10
1		LLI.72	LLI Lighting	LLI-FLX-WF-T1.5-42K-72IN c/w LLI-PS-NDE-030W-24V-KO(Driver)	Surface	Under Cabinet	LED Cove Tape Light + Flex Extrusion	1.5W/ft; 157lm/ft; 24VDC; White Powder Coat Finish; Frosted Lens; 4200K; 72 Inches long. 1" Cut Points; c/w Non-dimmable electronic 30W; 120:24V; Class 2 Driver mounted on cove	Addendum#10
1		LLI.127	LLI Lighting	LLI-FLX-WF-T1.5-42K-127IN	Surface	Under Cabinet	LED Cove Tape Light + Flex Extrusion	1.5W/ft; 157lm/ft; 24VDC; White Powder Coat Finish; Frosted Lens; 4200K; 127 Inches long. 1" Cut Points	Addendum#10
1		LLI.190	LLI Lighting	LLI-FLX-WF-T1.5-42K-190IN	Surface	Cove	LED Cove Tape Light + Flex Extrusion	1.5W/ft; 157lm/ft; 24VDC; White Powder Coat Finish; Frosted Lens; 4200K; 190 Inches long. 1" Cut Points	Addendum#10
1		LLI.278	LLI Lighting	LLI-FLX-WF-T1.5-42K-278IN c/w LLI-PS-NDE-060W-24V-KO(Driver)	Surface	Under Cabinet	LED Cove Tape Light + Flex Extrusion	1.5W/ft; 157lm/ft; 24VDC; White Powder Coat Finish; Frosted Lens; 4200K; 278 Inches long. 1" Cut Points; c/w Non-dimmable electronic 60W; 120:24V; Class 2 Driver mounted on cove	Addendum#10
1		LLI.312	LLI Lighting	LLI-FLX-WF-T1.5-42K-312IN	Surface	Cove	LED Cove Tape Light + Flex Extrusion	1.5W/ft; 157lm/ft; 24VDC; White Powder Coat Finish; Frosted Lens; 4200K; 312 Inches long. 1" Cut Points	Addendum#10
1		LLI.D	LLI Lighting	LLI-PS-DE010-096W-24V-KO	Pendant	Ceiling	Dimming Driver	Dimmable electronic 0-10V 96W; 120:24V; Class 2 Driver	Addendum#10
16		WF.6	Lithonia	WF6-SWW5-90CRI-MW	Recessed	Ceiling	Wafer LED Recessed Downlight	6" Diameter, 120V, 13W, 1000 Lumens,; 90CRI; Matte White; 0-10V Dimmable	Addendum#10
Total: 188									

1 - Total New/Relocated - Low Voltage Device Schedule

CURRENT SCHEDULE PHASE: Addendum#10 — SHOWING PHASE ITEMS: Show Previous + New

QTY	Relocated	Type	Conduit	Description	Phase Added
1	Yes	CAM	21mm EMT	Security Camera. EMT Conduit to Accessible ceiling space; Conduit Bushing	Tender
11	No	D.P	Pull String	Provide empty conduit and pull string from ceiling plenum to top of demountable wall frame. Refer to architectural detail A500 - typ. for all demountable wall door locations.	Tender
11	No	FS.21	21mm EMT	Std. recessed device Box & conduit to accessible ceiling; Conduit Bushing	Tender
5	No	TV.L	27mm EMT	Deep 4x4 Device Box. Single gang plaster ring. Conduit to TV.U upper device box; Conduit Bushing; Refer to TV detail	Tender
5	No	TV.U	27mm EMT	TV@1500mm; Deep 4x4 Device Box. Single gang plaster ring. Conduit to accessible ceiling; Conduit Bushing; Refer to TV detail; Confirm Mounting Height on Site prior to related work.	Tender
2	No	TVF.F	35mm PVC/EMT	Conduit to TV data auxillary floorbox type TVF.L. PVC Conduit below grade, EMT above grade. Refer to TV/Floorbox Detail. Confirm Mounting Height on Site prior to related work.	Tender
1	No	TVF.L	35mm EMT	Data Auxiliary TV Box at STD data height, Deep 4x4 device box. Single gang plaster ring. Conduit to floorbox. Conduit to TV data box. Alternatively use 2x27mm EMT between TVF.L and TVF.U. Refer to TV/Floorbox Detail.	Tender
6	No	CR	16mm EMT	Security Card Reader. Device box & conduit to accessible ceiling within Tenant office space;	Addendum#10
6	No	ES	16mm EMT	Electric Strike; Conduit to accessible ceiling within Tenant office space;	Addendum#10
10	No	S.21mm	21mm EMT	Surface Mount Device Box & Conduit to accessible ceiling; Conduit Bushing	Addendum#10
4	No	WAP	21mm EMT	Provide rough in for Wifi Access Points for installation by the City's IT contractor, Conduit Bushing, Pull String	Addendum#10
Total: 62					

4 - Total New/Relocated - Fire Alarm Device Schedule

CURRENT SCHEDULE PHASE: Addendum#10 — SHOWING PHASE ITEMS: Show Previous + New

QTY	Model	Description	Type Comments	Phase Added
7	15cd	ANNUNCIATING	Horn / Strobe, 15cd	Tender
3	15cd	ANNUNCIATING	Strobe, 15cd	Tender
3		Fire Alarm Initiating	Smoke Detector	Tender
Total: 13				

3 - Total New/Relocated - Electrical Device Schedule

CURRENT SCHEDULE PHASE: Addendum#10 — SHOWING PHASE ITEMS: Show Previous + New

Qty	Type ID	Description	Type Comments	Phase Added
10	BFP.1	Base Power Furniture Feed	Furniture fed from wall	Tender
1	DW	Direct Hardwire Connection	Dishwasher; 120V 15A	Tender
1	PT6.1	Evolution 6AT Series Poke Thru Device, Assembly, Surface, Black Finish	2hr Fire Rating; 35mm Bottom Housing Assembly, center compartment; Provide and wire two 15A Decora Style Receptacles into unwired floor box. Network cables routed directly into floorbox. Provide mounting plates for side receptacles. Coordinate with Manufacturer for all miscellaneous required parts for a complete installation. Coordinate final locaiton on site. X-ray Floor prior to related work;	Tender
9	R2	20A Duplex Receptacle	120V 5-20R; 1-Gang Box	Tender
1	R2A.1	20A Duplex Motion Controlled Receptacle	120V; 50% controlled; Leviton 16352-1PW or equal. Receptacle to indicate controlled portion as per SB-10 / ASHRAE 90.1.; Refer to Lighting Plan for Power Pack controlling indicated Zone.	Tender
1	R2A.1C	20A Duplex Motion Controlled Receptacle	120V; 50% controlled; Leviton 16352-1PW or equal. Receptacle to indicate controlled portion as per SB-10 / ASHRAE 90.1.; Refer to Lighting Plan for Power Pack controlling indicated Zone, Mounted at Counter Height, 4" Above Backsplash.	Tender
4	R2G.C	20A Duplex Receptacle	120V 5-20R; Class A - GFI Receptacle; Mounted at Counter Height, 4" Above Backsplash.	Tender
1	BFP.1	Base Power Furniture Feed	Furniture fed from wall	Addendum#10
1	H1.UPS	Direct Hardwire Connection	120V 15A; power for UPS. Confirm final location on site.	Addendum#10
1	H1.VP	Direct Hardwire Connection	120V 15A; power for Valcom Paging. Confirm final location on site.	Addendum#10
31	R2	20A Duplex Receptacle	120V 5-20R; 1-Gang Box	Addendum#10
8	R2.C	20A Duplex Receptacle	120V 5-20R; Mounted at Counter Height, 4" Above Backsplash.	Addendum#10
5	R2.S	20A Duplex Receptacle	120V 5-20R; Surface mount device box.	Addendum#10
7	R2A.1	20A Duplex Motion Controlled Receptacle	120V; 50% controlled; Leviton 16352-1PW or equal. Receptacle to indicate controlled portion as per SB-10 / ASHRAE 90.1.; Refer to Lighting Plan for Power Pack controlling indicated Zone.	Addendum#10
7	R2U	20A Duplex Receptacle	120V 5-20R; c/w 2-USB Ports	Addendum#10
6	R2U.CL	20A Duplex Receptacle	120V 5-20R; c/w 2-USB Ports; Mounted at Counter Height, 4" Above Backsplash, Flip-top/flush mount power module. confirm millwork on site.	Addendum#10
Total: 94				

5 - Total New/Relocated - Lighting Control Device Schedule

CURRENT SCHEDULE PHASE: Addendum#10 — SHOWING PHASE ITEMS: Show Previous + New

Qty	Type	Mfg.	Model# or approved equivalent	Description	Type Comments	Phase Added
7	CM.9	Sensor Switch	CM 9	PIR Ceiling Occ Sensor, 24V	24V; White; 360deg small motion;	Tender
3	CMR.9	Sensor Switch	CMR 9	PIR Ceiling Occ Sensor, Auto On/Off, 120V	120V; Auto-On; White; 360deg small motion; Single Relay	Tender
7	CMR.9C	Sensor Switch	CMR 9 D	PIR Ceiling Occ. Controlled Dimming, 120V, 0-10V, Corridor Dimming to 50%	120V; Auto-On; White; 360deg small motion; Single Relay; 0-10V Dimming; Master on/off control by local switch and timeclock or Alarm contact control. Program to reduce Lighting to 50% after 15min on Vacancy	Tender
1	CNT.2	TBD	TBD	Electrically Held Lighting Contactor, 2-Pole Normally Open	30A, 120V; Provide Steel Junction box in ceiling space. Wire All lighting circuits not under motion sensor control through contactor; Controlled by local master switch.	Tender
8	D.1	Sensor Switch	SPODM SA D WH	SwitchPod, Manual On, 24V, 0-10V Dimming, Push Button		Tender
4	D.3	Sensor Switch	SPODMRA MWO D WH	Multi-Way Line Voltage Dimming Wall Switch	120V, 0-10V Dimming, Push Button; Max/Min dimming range adjustable; Multi-Way (up to 9 devices) operation	Tender
1	MS.1	Sensor Switch	WSX WH	PIR Wall Switch Occ Sensor, Auto On/Off	120V; Auto-On; White	Tender
2	MS.2	Sensor Switch	WSX 2P FAN ASHRT WH	PIR Wall Switch Occ Sensor, Auto On Pole 1&2	120V; Deep Device Box; Pole 1: 2#12 AWG AC90 to Lights in room; Pole 2: 2#12 AWG AC90 to Fan in room; Minimum Run Time per ASHRAE 62.2; up to 1/4hp motor; White; Set timeout to 10min;	Tender
2	MS.3	Sensor Switch	WSX D SA WH	PIR 0-10V Dimming Wall Switch Occ Sensor, Manual On	120V; Dimming; White	Tender
7	MS.4	Sensor Switch	WSX D ASL WH	PIR 0-10V Dimming Wall Switch Occ Sensor, Auto On to 50%	120V; Dimming; White	Tender
8	PP20	Sensor Switch	PP20	Class 1 120V, to Class 2 15V Power / Relay Pack	Plenum Rated; Power up to 14 sensors	Tender
3	S.1	TBD	TBD	Switch, 1-Pole Architectural Decora Style	120V	Tender
4	SP20	Sensor Switch	SP20	Class 2 15V Relay Pack	Plenum Rated;	Tender
2	MS.1	Sensor Switch	WSX WH	PIR Wall Switch Occ Sensor, Auto On/Off	120V; Auto-On; White	Addendum#10
3	S.1	TBD	TBD	Switch, 1-Pole Architectural Decora Style	120V	Addendum#10
1	SP20	Sensor Switch	SP20	Class 2 15V Relay Pack	Plenum Rated;	Addendum#10
Total: 63						

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NO.	DESCRIPTION	DATE
14	Issued For Addendum#10	Oct 30, 2026
13	Issued For Addendum#8	Sep 29, 2026
12	Issued For EADD#1	Sep 04, 2026
11	Relssued for Permit	Jul 29, 2026
10	Issued for EADD#2	Jul 24, 2026

REVISION SCHEDULE

ROOT3 Engineering
1920 YONGE ST, SUITE 200
TORONTO, ON, M4S 3E2

PROJECT NAME
Barrie City Hall - 4th Floor
70 Collier Street,
Barrie, ON

DRAWING TITLE
Electrical Schedules

SCALE

SHEET SIZE
24"x36"

PROJECT NUMBER
24143

DRAWING NUMBER
E5

DESIGNER SSA