











































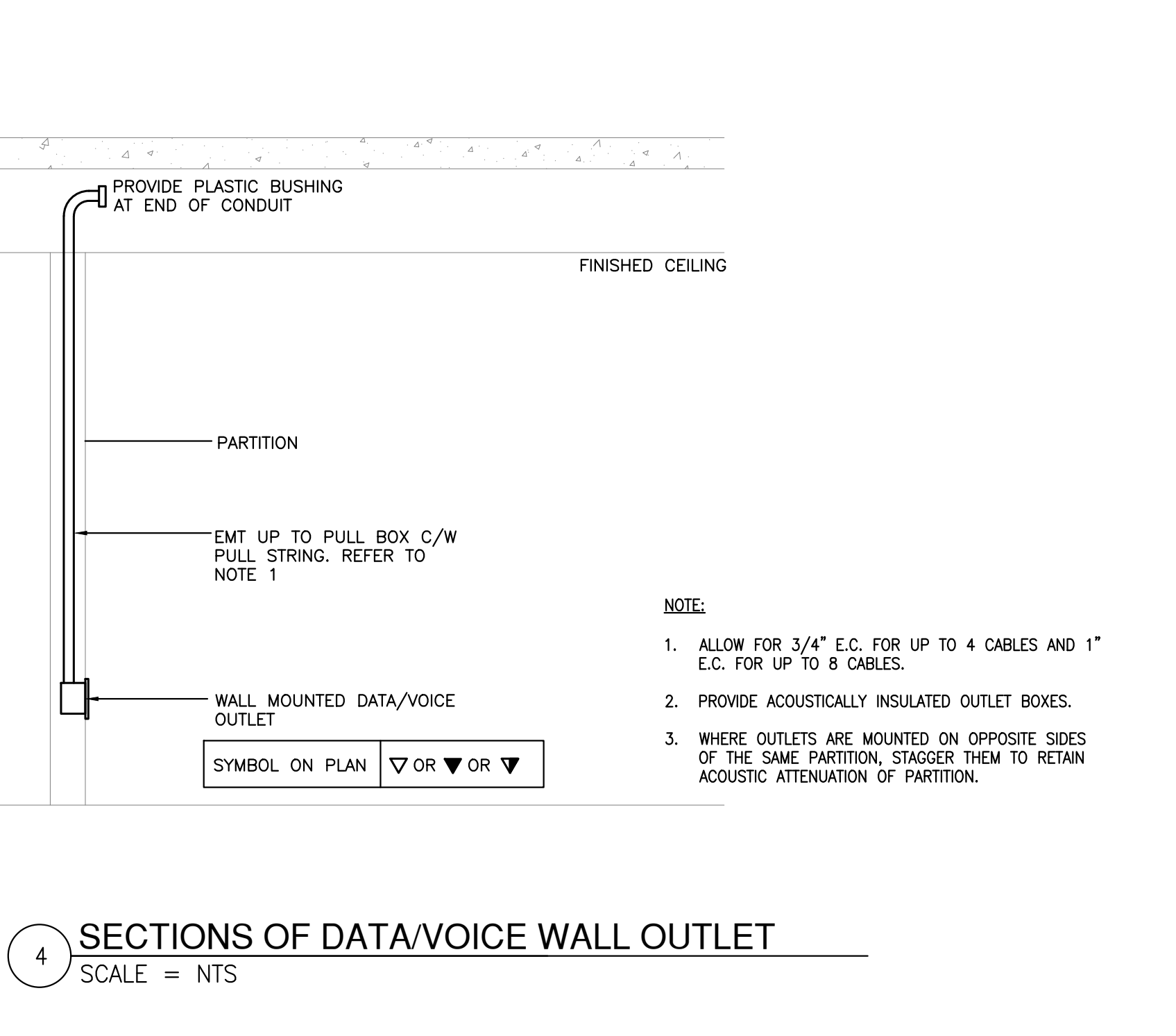
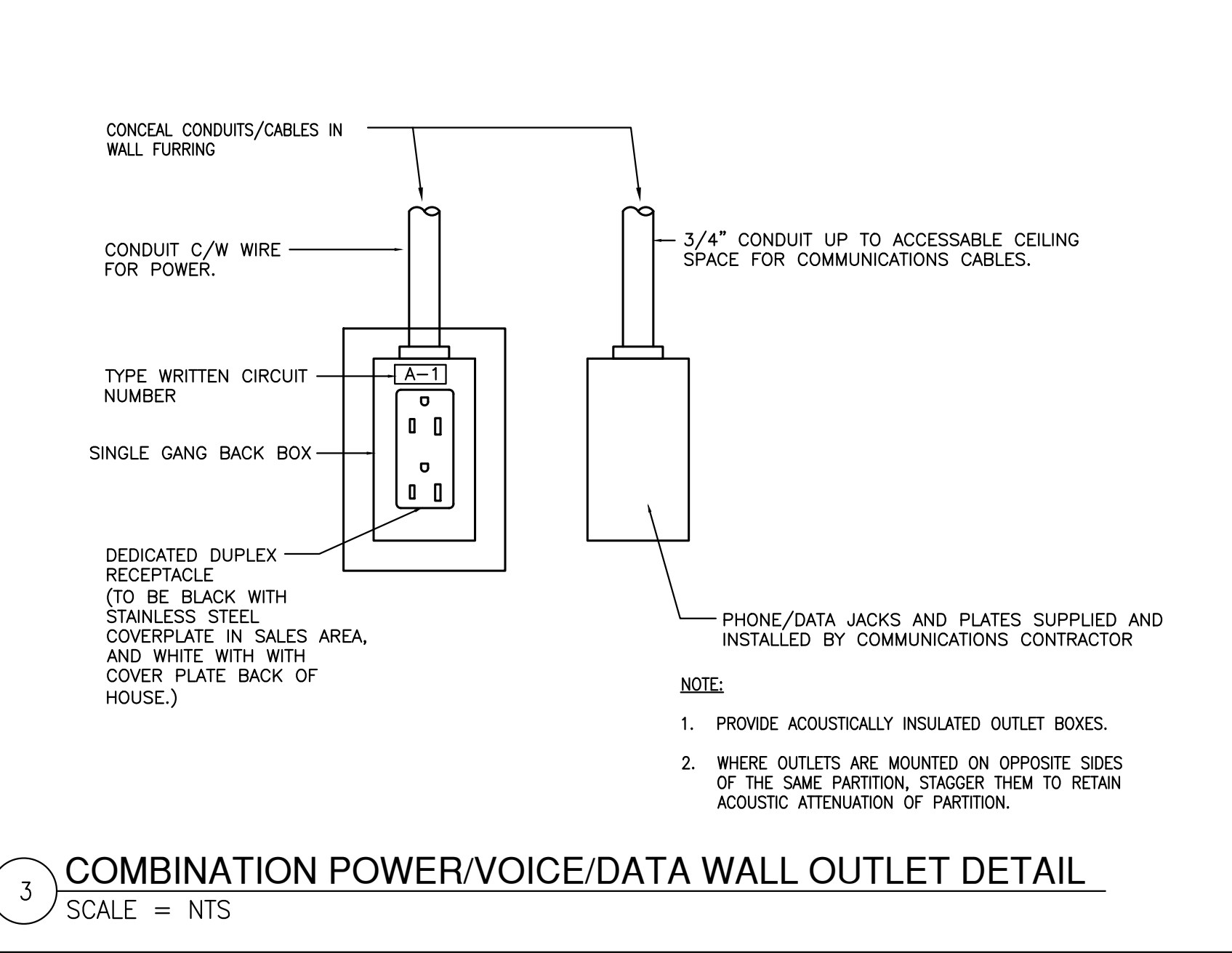
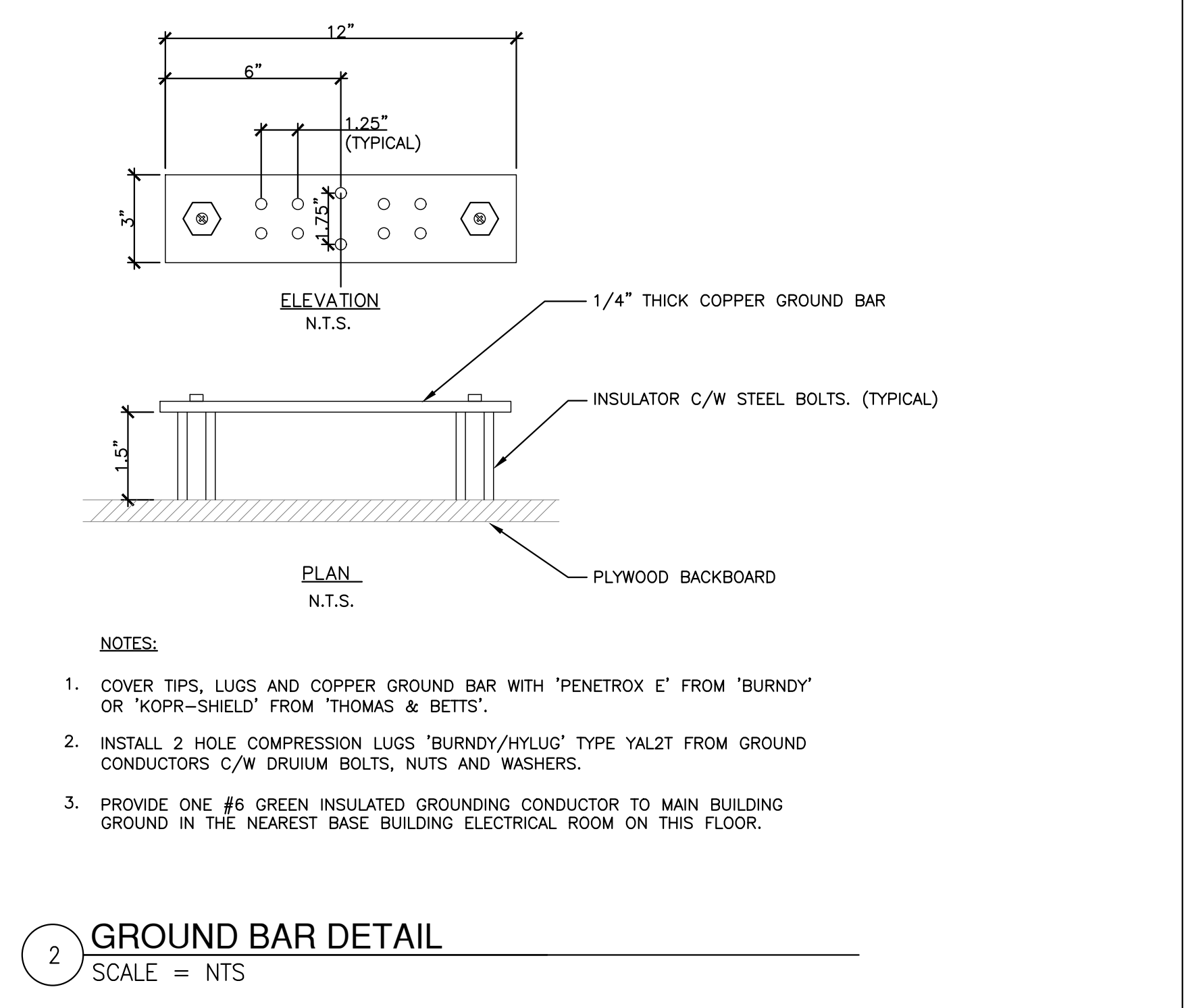
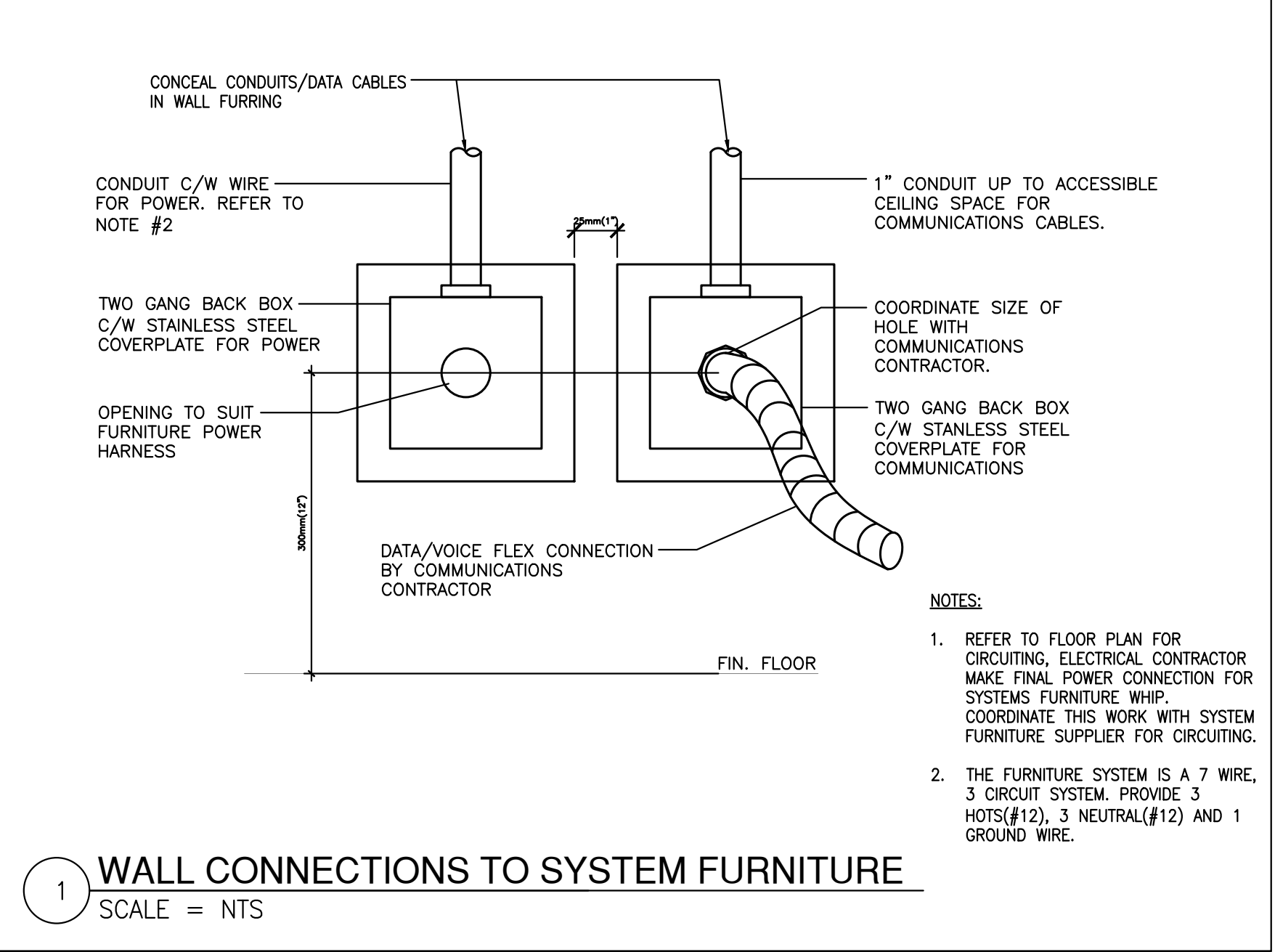


ELECTRICAL LEGEND			
LIGHTING CONTROL & EMERGENCY LIGHTING			
	LIGHT SWITCH - SINGLE POLE, 120 VOLT OR 347 VOLT AS REQUIRED. '3' DENOTES 3 WAY SWITCH		
	CEILING MOUNTED OCCUPANCY DUAL TECHNOLOGY SENSOR. 24 VOLT C/W POWER PACK. LEVITON OSC20-MOW WITH OSP15-RDH POWER PACK.		
	WALL MOUNTED DUAL TECH OCCUPANCY SENSOR. MOUNTED 44" AFF O.C. UNO 'P' DENOTES PASSIVE INFRARED OCCUPANCY SENSOR ONLY		
	DIMMER SWITCH TYPE TO MATCH FIXTURE CONTROLLED.		
	LUMACELL RG24S SERIES BATTERY UNIT C/W TWO MQM 4W MR16 LED HEADS MOUNTED 8" AFF U.N.O. CAPACITY AS NOTED ON DRAWINGS.		
	WALL MOUNTED REMOTE SINGLE OR DOUBLE HEAD EMERGENCY LAMP UNIT MOUNTED 8" AFF. LUMACELL MQM SERIES. 24V. 4W MR16 LED LAMP		
	CEILING MOUNTED REMOTE SINGLE OR DOUBLE HEAD EMERGENCY LAMP UNIT. LUMACELL MQM SERIES. 24V, 6W MR16 LED LAMP		
	CONCEALED REMOTE DOUBLE HEAD EMERGENCY LAMP UNIT. LUMACELL PHANTOM SERIES. 24V. 6W MR16 LED LAMP		
<div>SELF POWERED CEILING MOUNTED PICTOGRAM EXIT EMERGENCY LIGHT COMBINATION UNIT. LUMACELL LAC 50 SERIES WITH TWO 4W LED HEAD</div>			
	WALL MOUNTED PICTOGRAM EXIT LIGHT C/W DIRECTIONAL ARROW AS SHOWN ON DRAWINGS. LUMACELL LDE SERIES. FLAT TRIM WHEN MOUNTED ON CEILING.		
	CEILING MOUNTED PICTOGRAM EXIT LIGHT C/W DIRECTIONAL ARROW AS SHOWN ON DRAWINGS. LUMACELL LDE SERIES. FLAT TRIM WHEN MOUNTED ON CEILING.		
	CEILING MOUNTED EMERGENCY REMOTE DOWNLIGHT LUMACELL RSTH SERIES C/W 24V. 6W LED MR16 LAMP		
	CEILING MOUNTED DAYLIGHT HARVESTING SENSOR.		
	CEILING MOUNTED ICUPANCY SENSOR/DAYLIGHT HARVESTING SENSOR. LEVITON "PRC" ROOM CONTROLLER.		
FIRE ALARM			
	HEAT DETECTOR - CEILING OR WALL MOUNTED COMBINATION RATE OF RISE AND FIXED 57 DEGREE C.		
	SMOKE DETECTOR - CEILING OR WALL MOUNTED.		
	FIRE ALARM PULLSTATION.		
	FIRE ALARM BELL		
	HORN/STROBE COMBINATION FIRE ALARM DEVICE. STROBES TO BE 15cd UNLESS OTHERWISE NOTED.		
	FIRE ALARM HORN		
	CEILING OR WALL MOUNTED FIRE ALARM STROBE LIGHT. IF WALL MOUNTED, TO BE 2350mm (APPROXIMATELY 7' 9") AFF TO CENTER OF DEVICE. 15cd UNO.		
POWER			
	WALL MOUNTED DUPLEX RECEPTACLE. (15A, 1P, 120V UNLESS OTHERWISE NOTED). ALL OUTLETS TO BE MOUNTED 18" AFF O.C. UNLESS OTHERWISE NOTED. 'GFI' DENOTES GROUND FAULT CIRCUIT INTERRUPTER TYPE 'IG' DENOTES ISOLATED GROUND TYPE. PROVIDE SEPARATE NEUTRAL AND GROUND 'H' DENOTES HOSPITAL GRADE TYPE. PROVIDE DEDICATED NEUTRAL AND INSULATED GROUND 'D' DENOTES DEDICATED TYPED. PROVIDE SEPARATE NEUTRAL RUN DIRECTLY BACK TO PANELBOARD. 'U' DENOTES USB CHARGER & DUPLEX RECEPTACLE COMBINED UNIT.		
	WALL MOUNTED QUAD RECEPTACLE. (15A, 1P, 120V UNLESS OTHERWISE NOTED). 'IG' DENOTES ISOLATED GROUND TYPE. PROVIDE SEPARATE NEUTRAL AND GROUND. 'H' DENOTES HOSPITAL GRADE TYPE. PROVIDE DEDICATED NEUTRAL AND INSULATED GROUND 'D' DENOTES DEDICATED TYPE. PROVIDE SEPARATE NEUTRAL RUN DIRECTLY BACK TO PANELBOARD		
	SINGLE RECEPTACLE (TYPE AS NOTED)		
	SINGLE PHASE DIRECT CONNECTION OUTLET. (HARDWIRE DIRECT CONNECTION TO EQUIPMENT TERMINALS).		
	THREE PHASE DIRECT CONNECTION OUTLET. (HARDWIRE DIRECT CONNECTION TO EQUIPMENT TERMINALS).		
	WEATHER PROOF DISCONNECT SWITCH.		
	JUNCTION BOX		
	CEILING MOUNTED JUNCTION BOX		
	FLOOR BOX		
	AUDIO/VISUAL CONNECTION FOR TV		
MISCELLANEOUS			
	DOOR RELEASE PUSHBUTTON.		
	DOOR LOCK PUSHBUTTON.		
	DOOR OPEN PUSHBUTTON.		
	ELECTRIC STRIKE.		
	DOOR CONTACT.		
	CARD READER. PROVIDE 3/4" EMPTY CONDUIT TO THIS LOCATION. COORDINATE HOME RUN LOCATIONS WITH VENDOR.		
	ASSISTANCE REQUIRED LED DISPLAY		
	CALL FOR ASSISTANCE PUSH BUTTON		
	AUDIBLE AND VISUAL SIGNAL DEVICE		
COMMUNICATION			
	SINGLE-GANG WALL MOUNTED DATA OUTLET BOX C/W 1" CONDUIT UP TO ACCESSIBLE CEILING SPACE. NUMBER BESIDE DENOTES NUMBER OF JACKS REQUIRED.		
	SINGLE-GANG WALL MOUNTED VOICE OUTLET BOX C/W 1" CONDUIT UP TO ACCESSIBLE CEILING SPACE. NUMBER BESIDE DENOTES NUMBER OF JACKS REQUIRED.		
	SINGLE-GANG COMBINATION VOICE/DATA OUTLET BOX C/W 1" CONDUIT UP TO ACCESSIBLE CEILING SPACE. NUMBER BESIDE DENOTES NUMBER OF JACKS REQUIRED.		
	WIRELESS ACCESS POINT		
	HARDWIRE DIRECT CONNECTION TO SYSTEMS FURNITURE POWER. 'F' DENOTES FLOOR, 'W' DENOTES WALL, 'C' DENOTES CEILING.		
	HARDWIRE DIRECT CONNECTION TO SYSTEMS FURNITURE DATA. 'F' DENOTES FLOOR, 'W' DENOTES WALL, 'C' DENOTES CEILING.		
ABBREVIATIONS			
E	EXISTING TO REMAIN	WP	WEATHER PROOF
R	EXISTING TO BE REMOVED AND/OR RELOCATED	C	CONDUIT.
ER	EXISTING IN RELOCATED POSITION	EC	EMPTY CONDUIT.
R/R	REMOVE AND REINSTALL	C/W	COMPLETE WITH.
JB	JUNCTION BOX	CLG	CEILING.
AFF	ABOVE FINISHED FLOOR	SS	STAINLESS STEEL
DRAWING LIST			
E1.0	ELECTRICAL LEGEND & DETAILS		
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ITEM NO.	QTY.	EQUIPMENT	MAKE MODEL	AMPS	K.W.	H.P.	VOLT.	PHASE	TYPE	PERSONAL NOTE
1	1	BACK BAR COUNTER AND TOP (NOT IN KITCHEN CONTRACT)	BY MILLWORK/INTERIOR DESIGNER	2115			120	1	UTILITY RECEPTACLE	
2	1	13 DOOR REFRIGERAGE COOLER	PERLUCK B8584	4.2		1/4	120	1	NEMA 5-15	
3	12	DOOR 2 DRAWERS WINE COOLER	PERLUCK B8884 LD	4.3		1/5	120	1	NEMA 5-15	
4	1	180 LBS ICE MAKER C/W BIN	MANITOWAC NEO9 180 A C/W FILTERS	5			115	1		
5	1	FOUR OVER COFFEE MAKER AND HOT WATER DISPENSER	BUNN-Q-MATC C/WTF15-2 PF BY OWNER	13	1.57		120	1		
6	1	GRINDER		15			110	1		LOAD ESTIMATE: 1.32 KW
7	1	TRADITIONAL 2 HEAD ESPRESSO MACHINE (NOT IN KITCHEN CONTRACT)	BY OWNER							SERVICES AS PER EQUIPMENT SUPPLIED
8	1	11 DOOR UNDERCOUNTER COOLER	PERLUCK B8326	1.8		1/8	120	1	NEMA 5-15	NO SPEC SHEET, NEED TO CONFIRM
12	1	GLASSWASHER	MOYER DIEBEL DP	15			208-230	1	NEMA 6-15p	
13	1	FRONT BAR COUNTER AND TOP (NOT IN KITCHEN CONTRACT)	BY MILLWORK/INTERIOR DESIGNER	2115			120	1	UTILITY RECEPTACLE	
14	2	PO GUN (NOT IN KITCHEN CONTRACT)	BY POP VENDOR	2115			120	1		NO SPEC SHEET, NEED TO CONFIRM
15	2	BAR SINK	PERLUCK UCS48A	2115			120	1		
16	2	BLENDER	WARING MX1100XTS	2112.5	211.86		210-230	1		
20	2	POINT OF SALE (NOT IN KITCHEN CONTRACT)	NORBEC (ROOM) BOHN (COLL) TECUMSEH (COMP)	2115			120	1	PLUS INTERNET CONNECTION	
27	1	WALK-IN COOLER (BEER)	NORBEC (ROOM) BOHN (COLL) TECUMSEH (COMP)	2115		5.75	120	1		
31	1	WALK-IN FREEZER	NORBEC (ROOM) BOHN (COLL) TECUMSEH (COMP)	2115		5.75	120	1		
32	1	WALK-IN COOLER	NORBEC (ROOM) BOHN (COLL) TECUMSEH (COMP)	2115		5.75	120	1		
35	2	COO TANKS (NOT IN KITCHEN CONTRACT)	BY OWNER	15			120	1		NO SPEC SHEET, NEED TO CONFIRM
36	1	CARBONATOR (NOT IN KITCHEN CONTRACT)	BY OTHERS	15			120	1		NO SPEC SHEET, NEED TO CONFIRM
37	1	POP RACK (NOT IN KITCHEN CONTRACT)	PERLUCK 4410	157		1/2	120	1		NO SPEC SHEET, NEED TO CONFIRM
38	1	BEER SYSTEM GLUG	GLOBE SP30	16		1	115	1		
45	1	S/S WORK COUNTER C/W 1 COMP PREP SINK	CUSTOM FABRICATED	15			120	1		
46	12	DOOR UNDERCOUNTER COOLER	TURBO-AIR EUR-48-N6-V	1.5		1/5	115	1	NEMA 5-15	
57	1	VAPOUR HOOD	SPRING AIR/HALTON	15			120	1		
60	1	HIGH TEMP DISHWASHER	CHAMPION	158-77			208-240	1		
64	2	FRYERS GAS	PRYMASTER 1814E	2115			210-230	1		SPEC SHEET IS FOR GAS FRYER MU40
65	1	EXHAUST HOOD	SPRING AIR/ HALTON	2115			210-230	1		NO SPEC SHEET, NEED TO CONFIRM
66	1	FIRE SUPPRESSION (65)	SPRING AIR/ HALTON	15			120	1		NO SPEC SHEET, NEED TO CONFIRM
67	1	FIRE SUPPRESSION (69)	SPRING AIR/ HALTON	15			120	1		NO SPEC SHEET, NEED TO CONFIRM
69	1	EXHAUST HOOD	SPRING AIR/ HALTON	15			120	1		NO SPEC SHEET, NEED TO CONFIRM
71	1	BURNER RANGER	GARLAND GAS-2036RS	5.4			120	1	NEMA 5-15P	ONLY REQ'D IF USING CONVECTION OVEN
74	1	172" CHEF'S BASE	TURBO-AIR TCBE-72SDR-N	5.6		1/4	120	1		
78	2	VECTOR OVEN C/W STAND	ALTO-SHAAM HMR	1332	210.6		208	1	NEMA 15-50P	
79	2	COOK AND HOLD	ALTO-SHAAM	2110	211.9		210-230	1		
81	1	PASTA COOKER	GARLAND CQPC	15			120	1		
82	1	PIZZA OVEN	MARBA FORM	2			120	1		
85	1	REFRIGERATED PREP TABLE	TURBO AIR EST-48-N-V	5		1/3	120	1		
86	1	WORK COUNTER C/W UTILITY SINK	CUSTOM FABRICATED	15			120	1	UTILITY RECEPTACLE	
87	12	DOOR UNDERCOUNTER FREEZER	TURBO AIR ELP-36-N-V	2.5		1/3	120	1		
88	12	WELL DROP-IN HOT FOOD WELLS	ALTO-SHAAM 200-HW/D4	10	1.2		120	1	NEMA 5-15p 15A-120V plug	
90	7	HEAT LAMPS	HATCO DLI-1025R RTMOUNT	1715	79.025		170-230	1		
92	1	PIZZA PREP TABLE	TURBO AIR TPR-67SD-N	4.2		3/8	120	1	NEMA 5-15	
93	1	S/S COUNTER C/W HAND SINK	CUSTOM FABRICATED	15			120	1	UTILITY RECEPTACLE	
94	12	DRAWERS HOT HOLDING CABINET	ALTO-SHAAM 500-SD	5.3	15.64		120	1		



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Job No : 25016

3	2025-06-12	ISSUED FOR TENDER	JG
2	2025-05-28	ISSUED FOR PERMIT/TENDER REVIEW	JG
1	2025-05-02	ISSUED FOR REVIEW	JAC
No.	Date:	Issued/Revision:	By

Project :

FIREARMS OUTLET CANADA

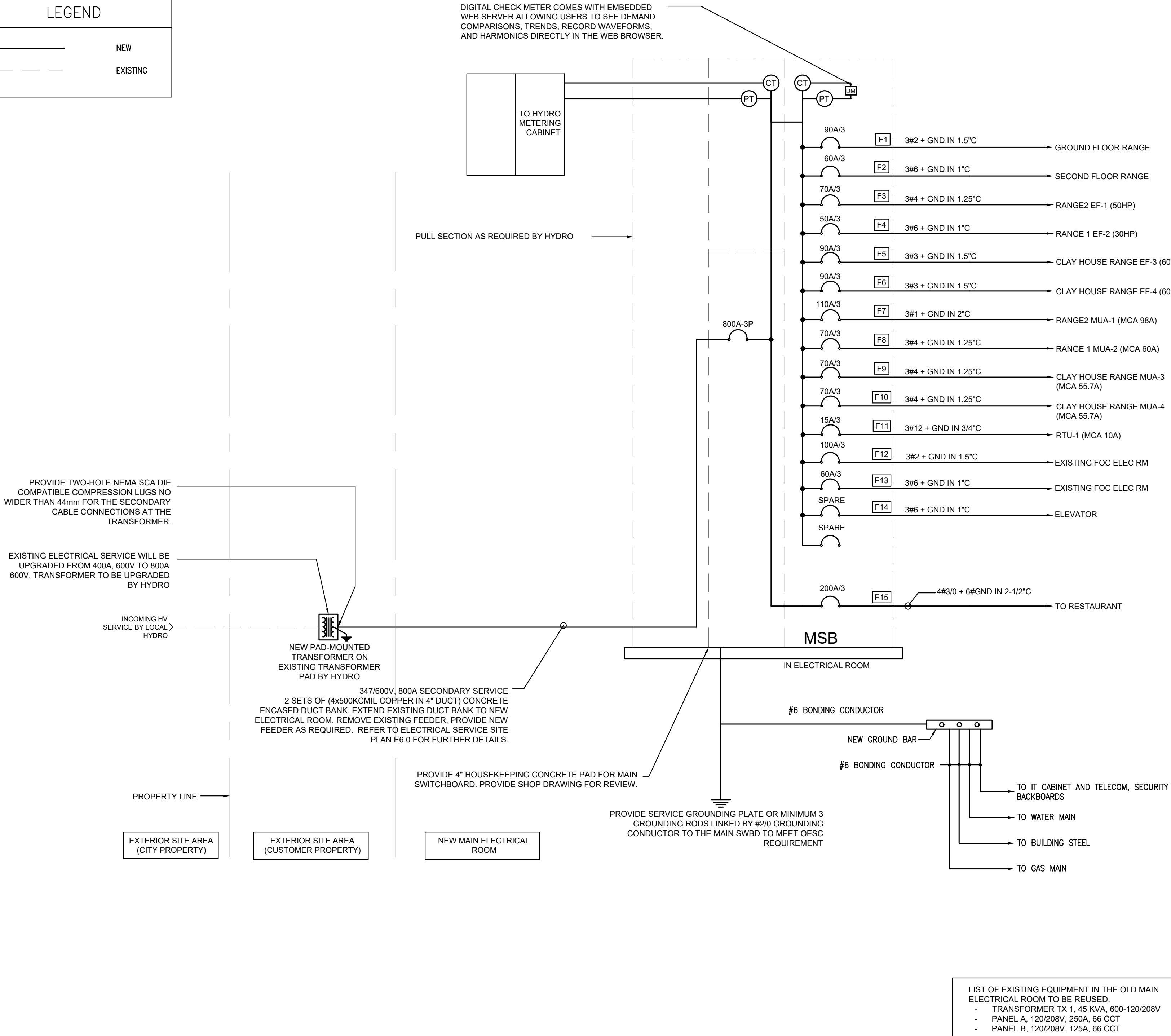
725 WESTNEY ROAD SOUTH,
AJAX, ONTARIO L1S 7J7

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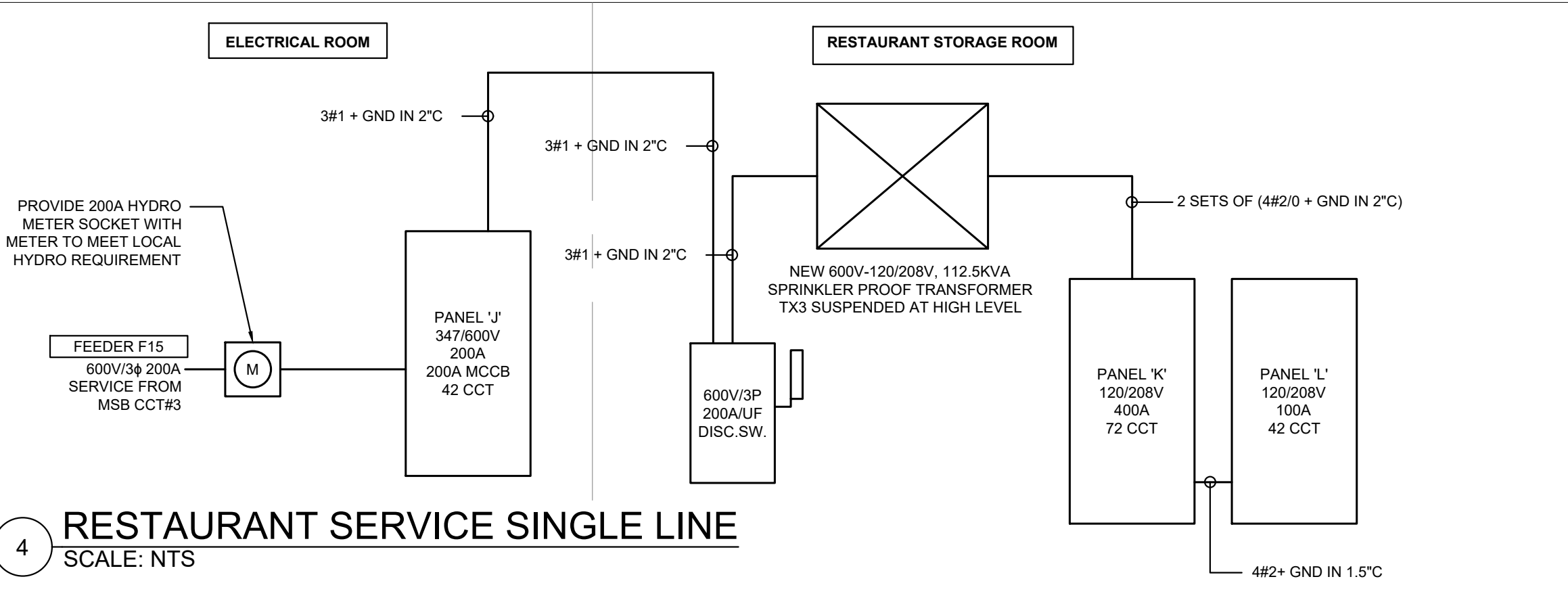
ELECTRICAL LEGEND AND DETAILS

Date	JAN 2025	Project No :	25016
Scale :	AS NOTED	Drawing No :	E1.0
Drawn by :	JAC		
Checked by :	JG		

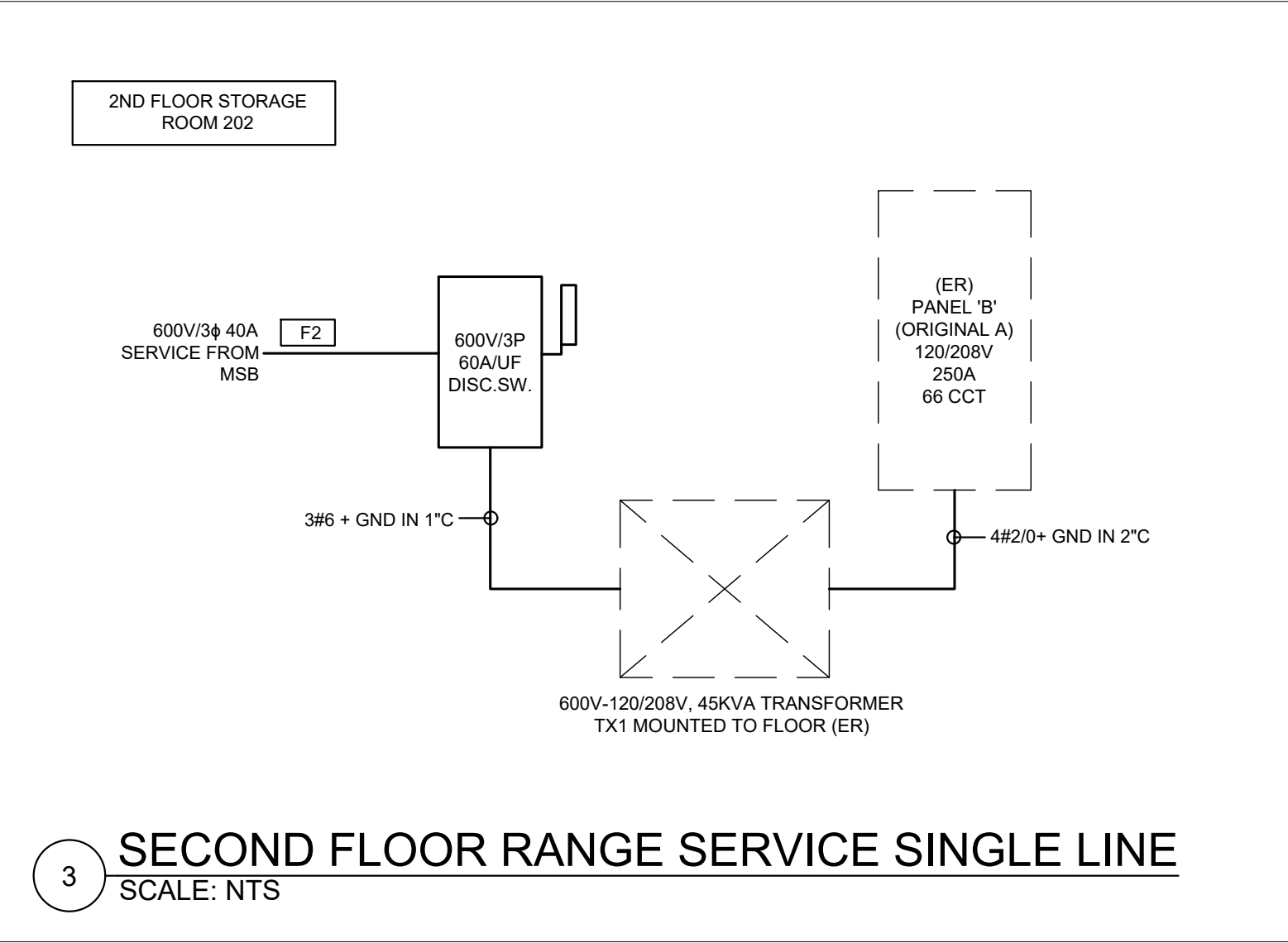
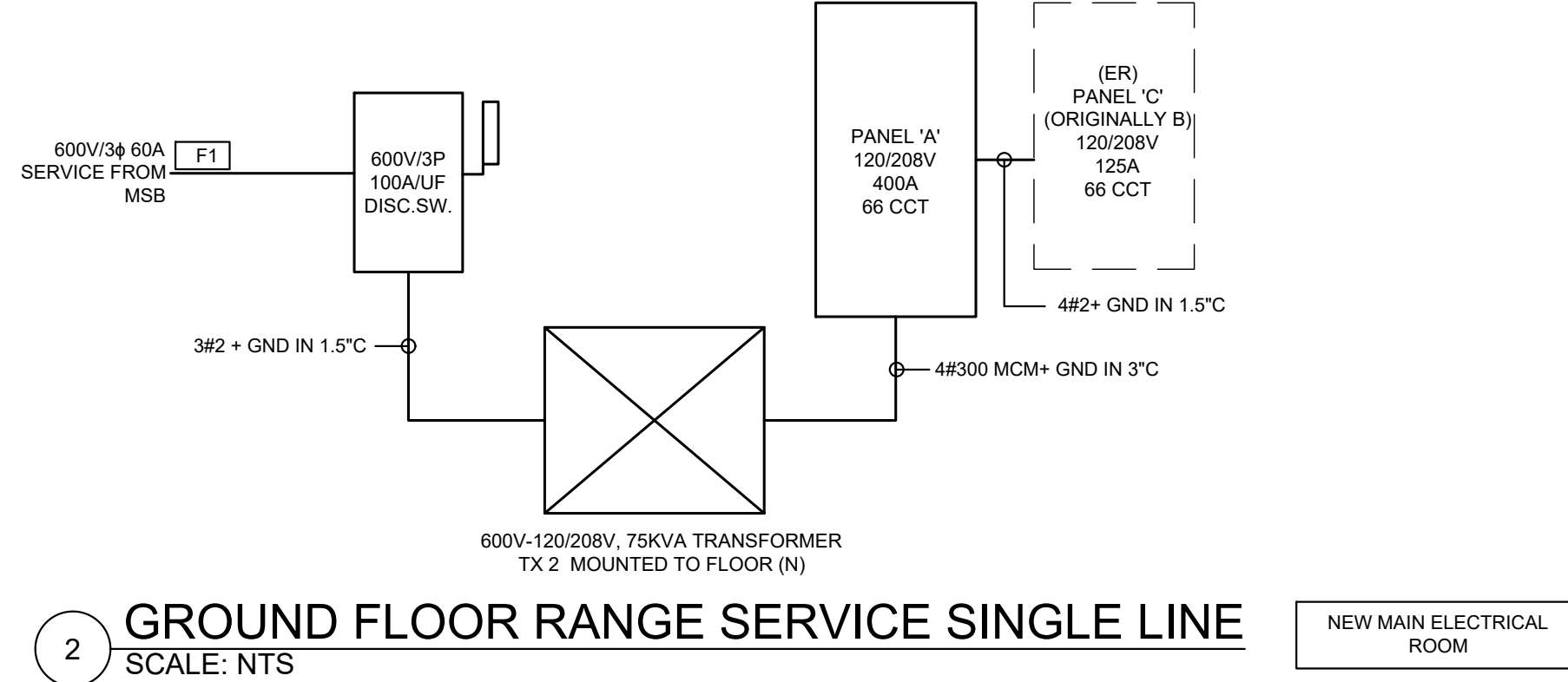
LEGEND	
—	NEW
- - -	EXISTING



1 MAIN SWITCHBOARD SINGLE LINE DIAGRAM
SCALE: NTS



4 RESTAURANT SERVICE SINGLE LINE
SCALE: NTS



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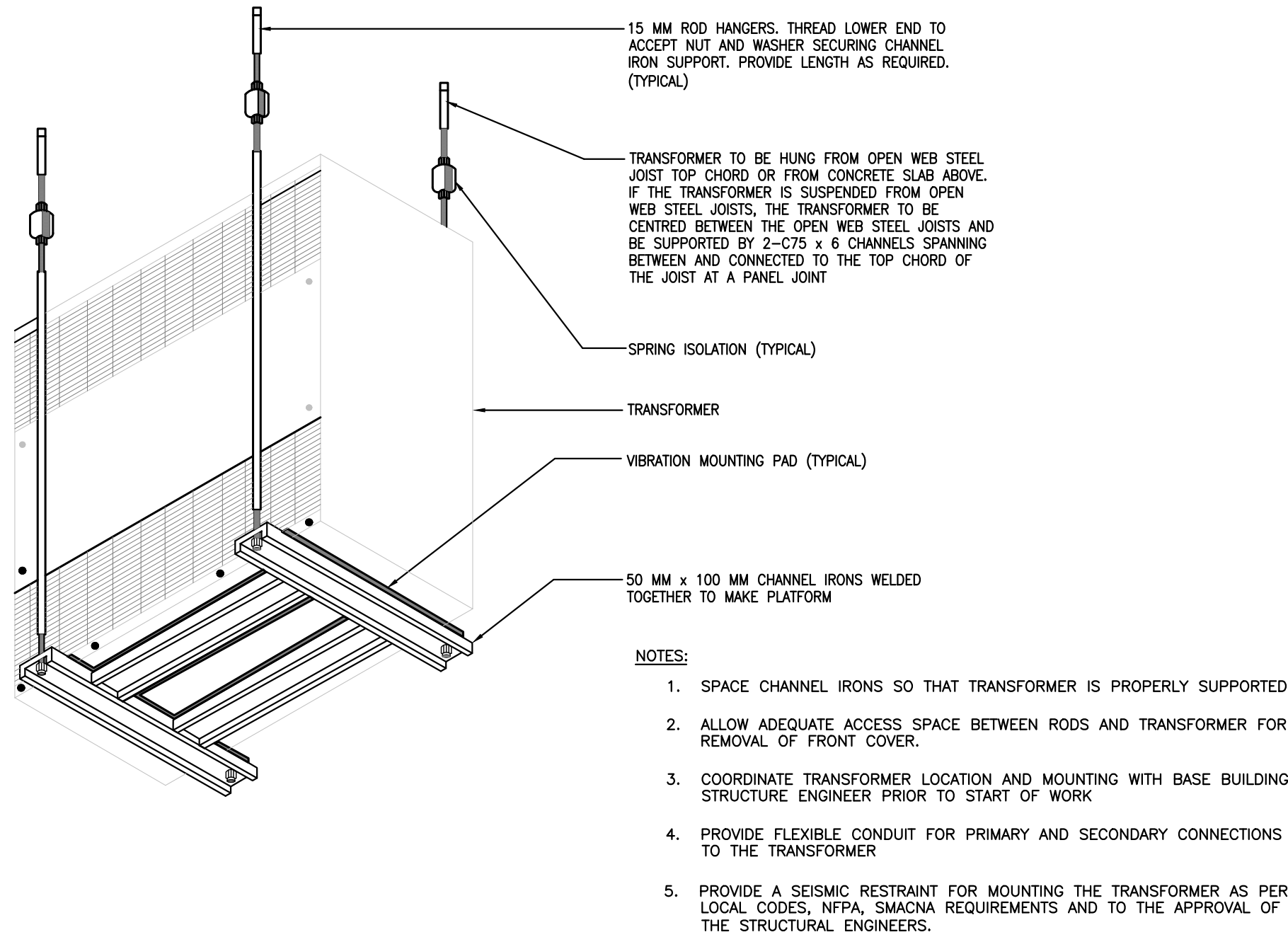
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FIREARMS OUTLET CANADA	
725 WESTNEY ROAD SOUTH, AJAX, ONTARIO L1S 7J7	
Drawing Name :	
ELECTRICAL SINGLE LINE DIAGRAMS	
Date	JAN 2025
Scale	AS NOTED
Drawn by :	JAC
Checked by :	JG
Project No :	25016
Drawing No :	E1.1

		VOLTAGE	120/208		NEW		10K		A/C RATING			
		PHASE/WIRE	3/4		PANEL		NO		DOUBLE LUGS			
		PANEL MAINS	400A		K		YES		ISOLATED GROUND BUS			
		MCOB SIZE OR MLO	MLO								NOTES:	
		MOUNTING TYPE	SURFACE									
CCT NO.	ZONE	LOAD DESCRIPTION	BKR SIZE	BKR OPT	ACTUAL KW	PHASE	ACTUAL KW	BKR OPT	BKR SIZE	LOAD DESCRIPTION	ZONE	CCT NO.
1			15/1		A	5.173						2
3			15/1		B	5.087			100/3	PANEL 'L'		4
5			15/1		C	5.240						6
7	2 - BEVERAGE COOLER		15/1		A	0.750			20/3	90 - HEAT LAMPS		8
9	2 - BEVERAGE COOLER		15/1		B	0.750			20/3	90 - HEAT LAMPS		10
11	4 - ICE MAKER		15/1		C	1.125			20/3	90 - HEAT LAMPS		12
13	5 - COFFEE MAKER		15/1		A	1.000			15/2	BBH-1		14
15	6 - GRINDER		15/1		B	1.000						16
17	7 - ESPRESSO MACHINE		15/1		C	1.000			15/2	BBH-1		18
19	1-BACK BAR COUNTER AND TOP		15/1		A	1.000						20
21	1-BACK BAR COUNTER AND TOP		15/1		B	1.000			15/2	BBH-1		22
23	8 - UIC COOLER		15/1		C	1.000						24
25	87 - UIC FREEZER		15/1		A	3.000						26
27	88 - HOT FOOD WELLS		15/1		B							28
29	85 - REFR. PREP TABLE		15/1		C	0.100			15/1	64 - GAS FRYER X2		30
31	92 - PIZZA PREP TABLE		15/1		A	0.504						32
33	94 - HOT HOLDING CABINET		15/1		B	0.408			15/1	71 - 8 BURNER RANGER		34
35					C	0.200			15/1	65 - EXHAUST HOOD		36
37	78 - CONVECTION OVEN		35/3		3.533	A						38
39					B							40
41					C	0.200			15/1	66 - FIRE SUPPRESSION		42
43	78 - CONVECTION OVEN		35/3		3.533	A	0.200		15/1	67 - FIRE SUPPRESSION		44
45					B							46
47	79 - COOK AND HOLD OVEN		20/1		1.900	C	0.144		15/1	48 - UIC COOLER		48
49	27- WALK IN COOLER CONDENSER (BEER)		20/2		0.850	A	4.620		100/2	58 - DISHWASHER		50
51					B	4.620						52
53	27- WALK IN COOLER EVAPORATOR (BEER)		15/1		0.240	C	0.200		15/1	35 - CO2 TANKS		54
55	27 - WALK IN COOLER LIGHTS AND ALARM (BEER)		15/1		0.120	A	0.200		15/1	36 - CARBONATOR		56
57					B	0.200			15/1	37 - POP RACK		58
59	WALK IN FREEZER CONDENSER		15/3		1.383	C	1.884		25/1	38 - BEER SYSTEM GLYCOL		60
61					B	1.933	A					62
63	WALK IN FREEZER EVAPORATOR		20/2		0.918	B	0.500		15/1	KITCHEN CONV. RECEP.TS		64
65					C	1.900			20/1	79 - COOK AND HOLD OVEN		66
67	WALK IN FREEZER LIGHTS AND ALARM		15/1		0.120	A	4.500		60/2	77 - 36" GRIDDLE		68
69	WALK IN FREEZER HEAT TRACE		15/1		0.360	B	4.500					70
71	45 - FLOOR DOUGH MIXER		20/1		1.920	C	0.960		15/1	81 - PASTA COOKER		72
73	69 - EXHAUST HOOD		15/1		0.200	A	0.850		20/2	WALK-IN COOLER CONDENSER (FOOD)		74
75					B	0.850						76
77	88 - HOT FOOD WELLS		15/1		1.200	C	0.240		15/1	WALK-IN COOLER EVAPORATOR (FOOD)		78
79					A	0.120			15/1	WALK-IN COOLER LIGHTS AND ALARM (FOOD)		80
81					B	0.500			15/1	46 - SINK COUNTER OUTLET		82
83	82 - PIZZA OVEN		20/1		1.440	C						84
NOTES: 1. BALANCE PANEL TO WITHIN 7% 2. REUSE EXISTING BREAKER IF POSSIBLE, PROVIDE NEW AS REQUIRED 3. CIRCUIT ARRANGEMENT IS FOR GROUPING PURPOSES ONLY. CONFIRM CIRCUITS ON SITE. 4. CONFIRM RTU POWER SOURCE AND UPDATE PANEL SCHEDULE WITH CORRECT RTU NAME TAG.												
					ACTUAL CONNECTED		31,240 KW				285 AMPS	
					PHASE A							
					PHASE B		31,642 KW					
					PHASE C		32,686 KW					
					TOTAL		95,567 KW					

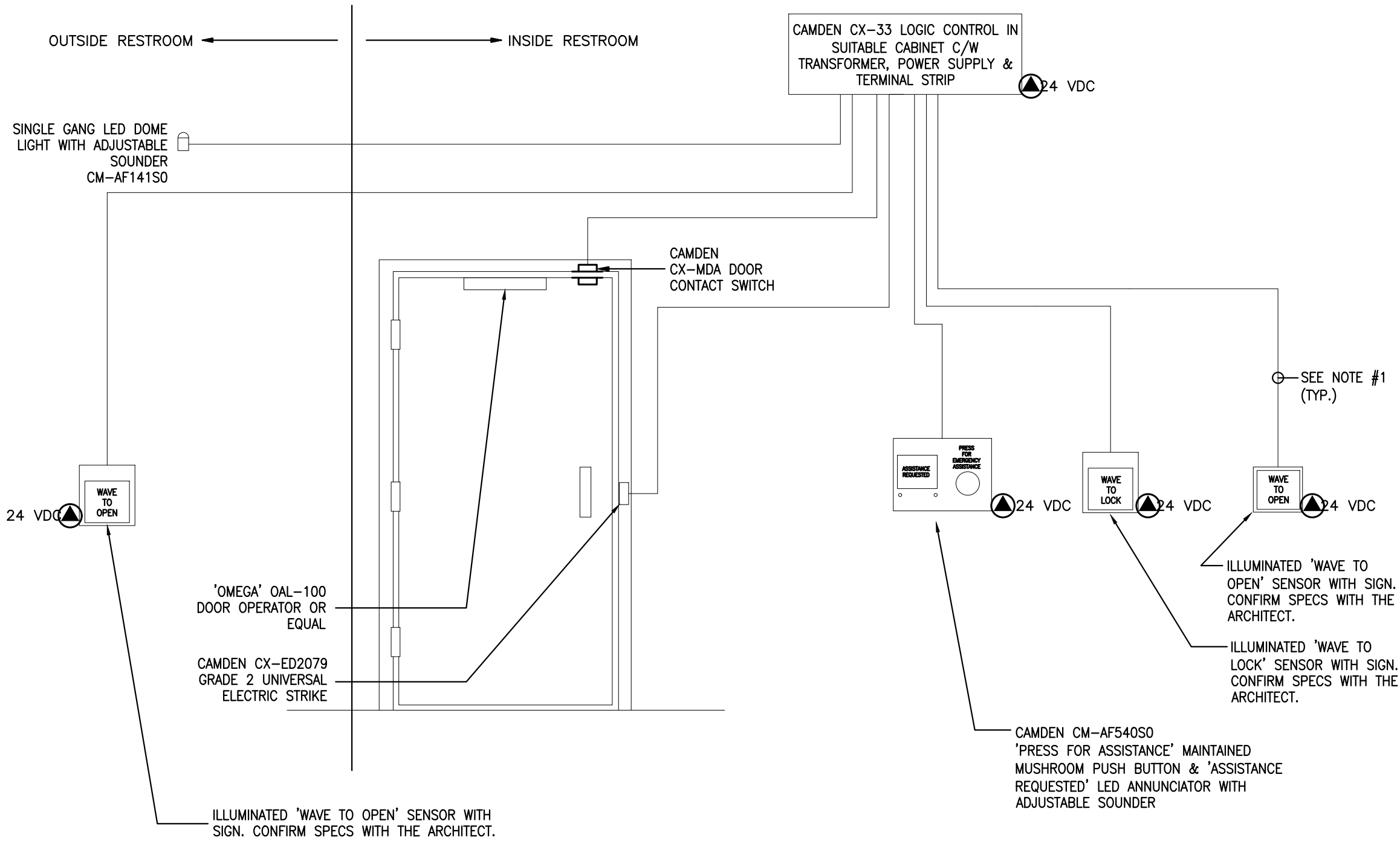
NOTES:												
1. BALANCE PANEL TO WITHIN 7%												
2. REUSE EXISTING BREAKER IF POSSIBLE, PROVIDE NEW AS REQUIRED												
3. CIRCUIT ARRANGEMENT IS FOR GROUPING PURPOSES ONLY. CONFIRM CIRCUITS ON SITE.												
4. CONFIRM RTU POWER SOURCE AND UPDATE PANEL SCHEDULE WITH CORRECT RTU NAME TAG.												
					ACTUAL CONNECTED		31,240 KW		<div>265 AMPS</div>			
					PHASE A		31,642 KW					
					PHASE B		32,686 KW					
					PHASE C		95,567 KW					
					TOTAL							

		VOLTAGE	120/208		NEW PANEL L		10K	A/C RATINGS	NOTES: DOUBLE LUGS ISOLATED GROUND BUS			
		PHASE WIRE	3/4									
		PANEL MAINS	100A									
		MCCB SIZE OR MLO	MLO									
		MOUNTING TYPE	SURFACE									
CCT NO.	ZONE	LOAD DESCRIPTION	BKR SIZE	BKR OPT	ACTUAL KW	PHASE	ACTUAL KW	BKR OPT	BKR SIZE	LOAD DESCRIPTION	ZONE	CCT NO.
1		EMWL	15/1		0.073	A	1.500		20/2	12 - GLASSWASHER		2
3		KITCHEN/BOH1 LTG	15/1		0.387	B	1.500					4
5		DINING AREA PENDANT LTG	15/1		0.480	C	0.200		15/1	14 - POP GUN		6
7		DINING AREA PENDANT LTG	15/1		0.540	A						8
9						B	0.400		15/1	20 - POS SYSTEM		10
11		16 - BLENDER	15/1		1.560	C	0.200		15/1	14 - POP GUN		12
13						A	1.560		15/1	16 - BLENDER		14
15						B	0.300		15/1	20 - POS SYSTEM		16
17		DINING AREA DOWN LTG	15/1		0.900	C	0.300		15/1	20 - POS SYSTEM		18
19						A	1.500		15/1	AIR CURTAIN		20
21						B	2.000		15/1	WALL FAN HEATER		22
23			15/1		0.700	C			15/1			24
25						A						26
27						B						28
29						C						30
31						A						32
33						B						34
35						C	0.300		15/1	ROOF TOP SERVICE RECEP.T.		36
37						A						38
39						B	0.500		15/1	DINNING AREA RECEPTION		40
41		CONTACTORS	15/1		0.200	C	0.400		15/1	DINING AREA RECEP.TS.		42

NOTES:			
1. BALANCE PANEL TO WITHIN 7%	ACTUAL CONNECTED		
2. REUSE EXISTING BREAKER IF POSSIBLE, PROVIDE NEW AS REQUIRED	PHASE A	5,173 KW	
	PHASE B	5,087 KW	
3. CIRCUIT ARRANGEMENT IS FOR GROUPING PURPOSES ONLY. CONFIRM CIRCUITS ON SITE.	PHASE C	5,240 KW	
4. CONFIRM RTU POWER SOURCE AND UPDATE PANEL SCHEDULE WITH CORRECT RTU NAMETAG.	TOTAL	15,500 KW	43 AMPS

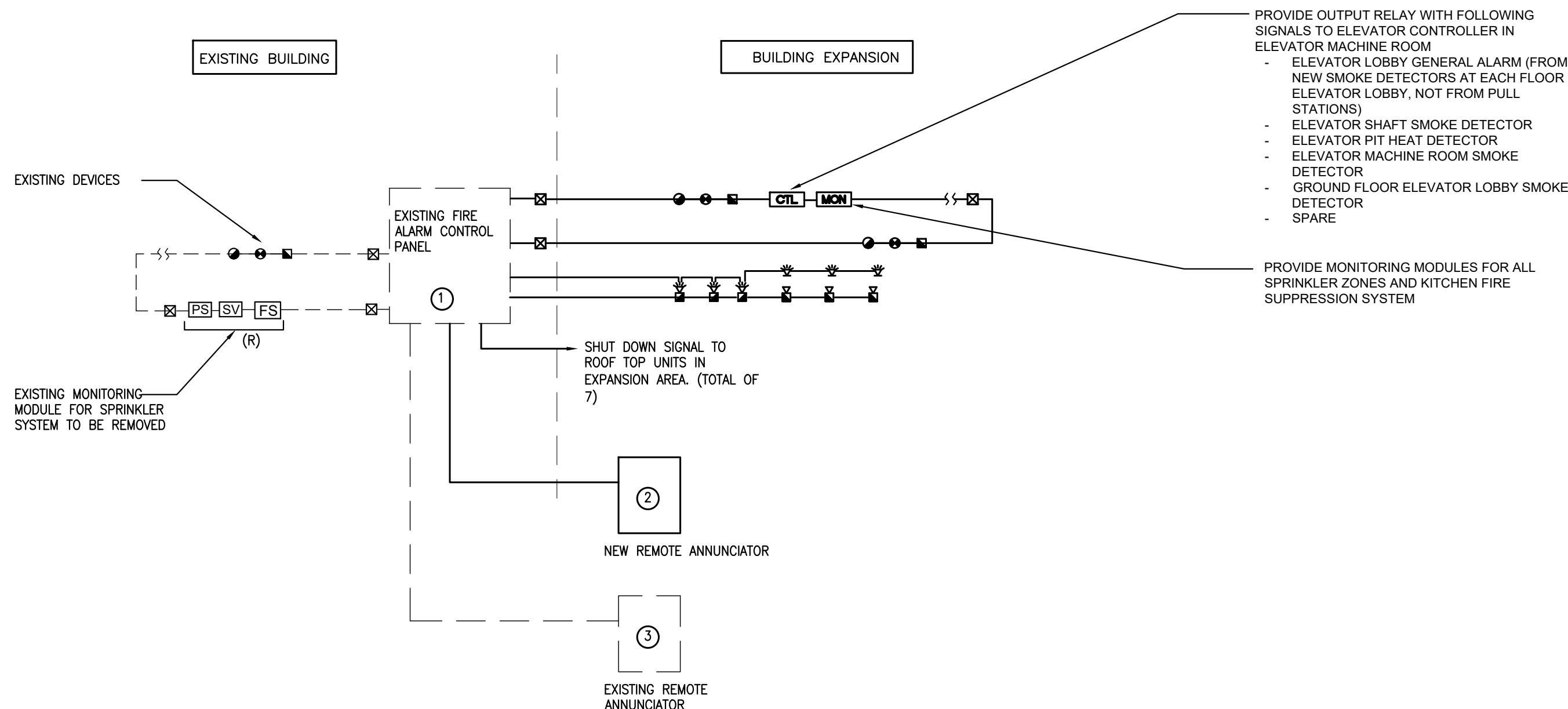


1 TYPICAL TRANSFORMER SUSPENSION DETAIL
SCALE: NTS



- THE DOOR TO THE UNIVERSAL WASHROOM SHALL OPERATE AS FOLLOWS:
- WHEN THE OUTSIDE H/O PUSH PLATE IS PUSHED, THE ELECTRIC DOOR STRIKE REMAIN DE-ENERGIZED WHILE THE OPERATOR CYCLES OPEN AND CLOSED.
 - WHEN THE DOOR IS CLOSED AND THE "PUSH TO LOCK" BUTTON INSIDE THE WASHROOM IS PRESSED, THE ELECTRIC DOOR STRIKE IS ENERGIZED AND THE DOOR IS SOLIDLY LOCKED.
 - WHEN THE "PUSH TO OPEN" BUTTON INSIDE THE WASHROOM IS PRESSED, THE ELECTRIC DOOR STRIKE IS AGAIN DE-ENERGIZED, THE OPERATOR CYCLES OPEN AND CLOSED.
 - WHEN THE DOOR IS CLOSED AFTER EXIT, THE ELECTRIC DOOR STRIKE REMAINS IN THE DE-ENERGIZED MODE READY FOR THE NEXT ENTRY/EXIT OR FOR A MANUAL OPENING OF THE DOOR.
 - WHEN DOOR IS LOCKED, THE OUTSIDE PUSH PLATE WILL LIT RED, WHEN DOOR IS UNLOCKED, THE OUTSIDE PUSH PLATE WILL LIT GREEN.
 - UPON ACTIVATION OF THE EMERGENCY CALL BUTTON, THE AUDIBLE AND VISUAL ALARMS ARE ACTIVATED AND THE DOOR IS DE-ENERGIZED AND UNLOCKED.
 - FOR EMERGENCY ACCESS, THE DOOR CAN ALSO BE OPENED FROM OUTSIDE BY A MASTER KEY.
- NOTES:
- THIS ELECTRICAL CONTRACTOR TO PROVIDE ALL WIRING, CONDUIT AND BACKBOXES AS REQUIRED FOR A COMPLETE AND FUNCTIONAL SYSTEM. WIRING SHALL BE RUN IN CONDUIT AS PER DOOR HARDWARE MANUFACTURE'S WIRING REQUIREMENTS.
 - COORDINATE WITH DOOR HARDWARE SUPPLIER FOR INSTALLATION OF ALL DEVICES.
 - COORDINATE EXACT LOCATIONS AND MOUNTING HEIGHTS OF ALL DEVICES AND PLATES WITH ARCHITECTURAL DRAWINGS AND LOCAL INSPECTOR PRIOR TO ROUGH-IN.
 - LETTERS FOR SIGNAGE SHALL BE AT LEAST 25mm HIGH WITH A 5mm STROKE. WITH SIGN POSTED ABOVE THE EMERGENCY BUTTON.
 - SYSTEM SHALL BE CAMDEN CAT.# CX-WEC SERIES TO BE SUITABLE FOR USAGE WITH DOOR OPERATOR AND CONTROL KIT, OR APPROVED EQUAL.

2 BARRIER-FREE WASHROOM DETAIL
SCALE: NTS



- GENERAL NOTES:
- THE RISER DIAGRAM REFLECTS CONCEPTUAL ARRANGEMENT ONLY. FOR EXACT QUANTITIES AND LOCATIONS OF FIRE ALARM DEVICES, REFER TO THE LAYOUT DRAWINGS. MANUFACTURER/CONTRACTOR TO SUBMIT COMPLETE RISER DIAGRAM INDICATING ALL DEVICES AND CONDUIT RUNS. QUANTITIES OF CIRCUIT REQUIRED TO BE CALCULATED BY EQUIPMENT SUPPLIER.
- CODED NOTES:
- EXISTING FA CONTROL PANEL MIRCROM FLEXNET SYSTEM TO BE UPGRADED TO ACCOMMODATE NEW DEVICES FOR THE EXPANSION AREA. UPDATE ZONE INDICATOR PANEL TO INCLUDE ALL EXISTING AND NEW FIRE ALARM ZONES
 - NEW REMOTE ANNUNCIATOR AT NEW EXPANSION MAIN ENTRANCE.
 - EXISTING REMOTE ANNUNCIATOR, MODIFY TO INCLUDE ADDITIONAL ZONES

3 FIRE ALARM SYSTEM RISER DISGRAM
SCALE: NTS

FIRE ALARM ZONE SCHEDULE				
ZONE	DESCRIPTION	FUNCTION		NOTES
		ALARM	SUPERV.	
ZONE 1	BUILDING A	YES		
ZONE 2	BUILDING B GROUND FLOOR	YES		
ZONE 3	BUILDING B 2ND FLOOR	YES		
ZONE 4	BUILDING B MAIN ELEC ROOM	YES		
ZONE 5	BUILDING B MAIN MECHANICAL ROOM	YES		
ZONE 6	BUILDING B GF ELEVATOR LOBBY	YES		SMOKE DETECTOR
ZONE 7	BUILDING B ELEVATOR SHAFT	YES		
ZONE 8	BUILDING B ELEVATOR PIT	YES		
ZONE 9	BUILDING B ELEVATOR MACHINE ROOM	YES		
ZONE 10	RESTAURANT FIRE SUPPRESSION	YES		
ZONE 11	MAIN SV#1		YES	2.
ZONE 12	MAIN SV#2		YES	2.
ZONE 13	PRESSURE SWITCH		YES	2.
ZONE 14	GROUND FLOOR SV#3		YES	2.
ZONE 15	SPARE		YES	2.
ZONE 16	2ND FLOOR FLOOR SV#4		YES	2.
ZONE 17	GROUND FLOOR FLOW SWITCH	YES		2.
ZONE 18	SPARE	YES		2.
ZONE 19	2ND FLOOR FLOW SWITCH	YES		2.
ZONE 20				
ZONE 21				
ZONE 22	SPARE			
ZONE 23	SPARE			
ZONE 24	SPARE			

NOTES:

1. EXISTING ZONE TO REMAIN.

2. CONFIRM WITH SPRINKLER SYSTEM DESIGN AND MODIFY AS REQUIRED.

FIRE ALARM SYSTEM

- EXISTING BUILDING HAS A MIRCROM FLEXNET FIRE ALARM SYSTEM. ALL NEW DEVICES SHOULD BE TIE-IN TO THE EXISTING PANEL AND PROVIDE ALL REQUIRED EQUIPMENT AND ACCESSORIES FOR ADDITIONAL ZONES AND DEVICES FOR THE EXPANSION AREA. PROVIDE A REMOTE ANNUNCIATOR IN EXPANSION AREA MAIN ENTRANCE AND TIE-IN TO EXISTING SYSTEM.
- EXISTING FA AND ANNUNCIATOR PANEL SHALL BE MODIFIED TO INCLUDE NEW ZONES FOR THE EXPANSION.
- PULL STATIONS SHALL BE INSTALLED TO BARRIER FREE HEIGHTS IN ACCORDANCE TO O.B.C. REQUIREMENTS. PROVIDE MATCHING CLEAR PLASTIC GUARD FOR PULL STATIONS IN PUBLIC AREA.
- ADJUST THE SETTING OF AUDIBLE DEVICE INSTALLED IN SMALL ROOM TO LOWER LEVEL AS REQUIRED.
- SET STROBE LIGHT OUTPUT TO 15cd U.N.O. SET STROBE LIGHT OUTPUT TO EQUAL OR HIGHER THAN LEVELS SHOWN ON DRAWINGS
- ALL DEVICE END OF LINE RESISTOR SHALL BE LABELED WITH CIRCUIT SEVERED. ALL CONTROL AND MONITORING MODULE SHALL BE LABELED WITH DEVICES SEVERED. ALL LABELS SHALL BE TYPE WRITTEN.
- FIRE ALARM SYSTEMS SHALL BE INSTALLED IN CONFORMANCE WITH CAN/ULC-S524, "STANDARD FOR THE INSTALLATION OF FIRE ALARM SYSTEMS"
- ALLOW FOR MONITORING OF TWO ADDITIONAL SPRINKLER ZONES. DEVICE WILL BE LOCATED IN EXISTING BUILDING SPRINKLER ROOM. CONTRACTOR TO COORDINATE WITH SPRINKLER SYSTEM DESIGNER FOR ADDITIONAL ZONES REQUIRED TO BE MONITORED.

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Job No : 25016

3	2025-06-12	ISSUED FOR TENDER	JG	
2	2025-05-28	ISSUED FOR PERMIT/TENDER REVIEW	JG	
1	2025-05-02	ISSUED FOR REVIEW	JAC	
No.	Date:	Issued/Revision:	By	



Project :

FIREARMS OUTLET CANADA

725 WESTNEY ROAD SOUTH,
AJAX, ONTARIO L1S 7J7

Drawing Name :

DETAILS AND FIRE ALARM
RISER

Date	JAN 2025	Project No :	25016
Scale :	AS NOTED		
Drawn by :	JAC	Drawing No :	E1.3
Checked by :	JG		

RANGE AREA LIGHTING FIXTURE SCHEDULE											
Symbol	Label	Image	Quantity	Manufacturer	Catalog Number	Description	Number Lamps	Lumens Per Lamp	Light Loss Factor	Wattage	Distribution
	R1			Lithonia Lighting	TBD	2X4 LED FLAT PANEL 80CRI 4000 K,	1		0.9	40	DIRECT, SC-0=1.3, SC-90=1.5
	R2			Lithonia Lighting	2BLT4 30L LUGRT LP840	2X4 BLT 3000, Curved low UGR lens with trim 82CRI 4000 K,	1	3571	0.9	22.52	DIRECT, SC-0=1.24, SC-90=1.47
	R3			Lithonia Lighting	2BLT4 48L LUGRT LP840	2X4 BLT 4800, Curved low UGR lens with trim 82CRI 4000 K,	1	5636	0.9	39.28	DIRECT, SC-0=1.24, SC-90=1.47
	R4			Lithonia Lighting	2BLT2 20L LUGR LP840	2X2 BLT 2000, Curved low UGR lens, 82CRI 4000 K,	1	2332	0.9	16.37	DIRECT, SC-0=1.21, SC-90=1.46
	R4D			Lithonia Lighting	2BLT2 20L LUGR LP840	2X2 BLT 2000, Curved low UGR lens, 82CRI 4000 K, C/W DRY WALL MOUNTING KIT	1	2332	0.9	16.37	DIRECT, SC-0=1.21, SC-90=1.46
	R5			Gotham Architectural Lighting	IVO4 D 15LM 40K 80CRI 30D P WR	IVO4 Downlight 1500 Lumens 4000K 80+ CRI 30° Beam Angle Open Parabolic White no finish	1	1651	0.9	14.953	DIRECT, SC-0=0.46, SC-90=0.46
	S1			Lithonia Lighting	ZL1D L48 7000LM FST MVOLT 40K 80CRI	ZL1D 48" 7,000 Lumens Frosted Diffuser MVOLT 4,000 K 80CRI	1	7596	0.9	59.23	SEMI-DIRECT, SC-0=1.17, SC-90=1.34
	S2			Lithonia Lighting	ZL1D L48 3000LM FST MVOLT 40K 80CRI	ZL1D 48" 3,000 Lumens Frosted Diffuser MVOLT 4,000 K 80CRI	1	4028	0.9	29.85	SEMI-DIRECT, SC-0=1.17, SC-90=1.34
	S3			Gotham Architectural Lighting	IVO4CYL PC D 25LM 35K 80CRI 45D L9/L14/L16 P WTR LSS	IVO4 Pendant Cylinder 2500 Lumens 3500K 80+ CRI 45° Beam Angle Open Parabolic Wheat Anodized Semi-Specular	1	2058	0.9	26.84	DIRECT, SC-0=0.68, SC-90=0.68
	S4			LUMINIS	HC1600-L4L75-40K	Hollowcore	1	7789	0.9	77.4	SEMI-DIRECT, SC-0=1.51, SC-90=1.51
	S5			BETA-CALCO, INC. TORONTO, ONTARIO	KIORA 44 1201-30	BETA-CALCO INDOOR LED LUMINAIRE WITH WHITE TRANSLUCENT/CLEAR LENSES AND SEMI-SPECULAR REFLECTOR	1	2263	0.9	30	
	RG					WALL MOUNTED DOME LIGHT WITH WIREGUARD. "R" DENOTES RED LIGHT "G" DENOTES GREEN LIGHT					
	H1			Lithonia Lighting	REBL ALO18-1BL MD UVOLT 3WW3-40 80CRI	REBL Highway 18,000lm MEDIUM Distribution 120-347V ALO13/16 Switchable 4000K CCT 80CRI	1	2817	0.9	16.3	DIRECT, SC-0=1.3, SC-90=1.3
	H2			Lithonia Lighting	REBL ALO13-1BL MD UVOLT 3WW3-40 80CRI	REBL Highway 18,000lm MEDIUM Distribution 120-347V ALO13/16 Switchable 4000K CCT 80CRI	1	18851	0.9	117.1	DIRECT, SC-0=1.35, SC-90=1.35
	R2			Lithonia Lighting	2BLT4 30L LUGRT LP840	2X4 BLT 3000, Curved low UGR lens with trim 82CRI 4000 K,	1	3571	0.9	22.52	DIRECT, SC-0=1.24, SC-90=1.47
	R6			Lithonia Lighting	2BLT4 60L LUGR LP840	2X4 BLT 6000, Curved low UGR lens, 82CRI 4000 K,	1	6871	0.9	46.6	DIRECT, SC-0=1.3, SC-90=1.5
	B1			Lithonia Lighting HYDREL	HYDREL 8200 108LED -BLU-MVOLT WFL YM	YORK MOUT BLUE FLOOD LT WIDE FLOOD 120-347V ALUMIMUM HOUSING, IP67 CCT 70.9 CRI	1	13070	0.9	260	

RESTAURANT/OFFICE AREA LIGHTING FIXTURE SCHEDULE	
	2' x 2' RECESSED LIGHT: PHILIPS CFI SoTrace LED 2X2
	2' x 4' RECESSED LIGHT: PHILIPS CFI SoTrace LED 2X4
	SUSPENDED LINEAR LIGHT: PHILIPS FLATLINE Suspended LED 4'
	RECESSED POT LIGHT PHILIPS LIGHTOLIER LyteCaster LED 5" Round Downlight
	CYLINDRICAL POT LIGHT: LUXSPACE SURFACE MOUNTED (DN570C LED20S/840 DIA-VLC-E C WH)
	PENDANT LIGHT #1 ROBINSON LIGHT & BATH RENITY 1 LIGHT PENDANT (Matteo)
	PENDANT LIGHT #2 (BAR AREA) ROBINSON LIGHT & BATH CHARISMO 1-LIGHT CYLINDER PENDANT
	RED LIGHT (WALL MOUNTED)

1

INDOOR ULUMINAIRE SCHEDULE

SCALE: NTS

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THOMAS A. FEKETE LIMITED

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MARRHAM, ONTARIO L3R 1A3
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Job No : 25016

3	2025-06-12	ISSUED FOR TENDER	JG
2	2025-05-28	ISSUED FOR PERMIT/TENDER REVIEW	JG
1	2025-05-02	ISSUED FOR REVIEW	JAC
No.	Date:	Issued/Revision:	By



Project :

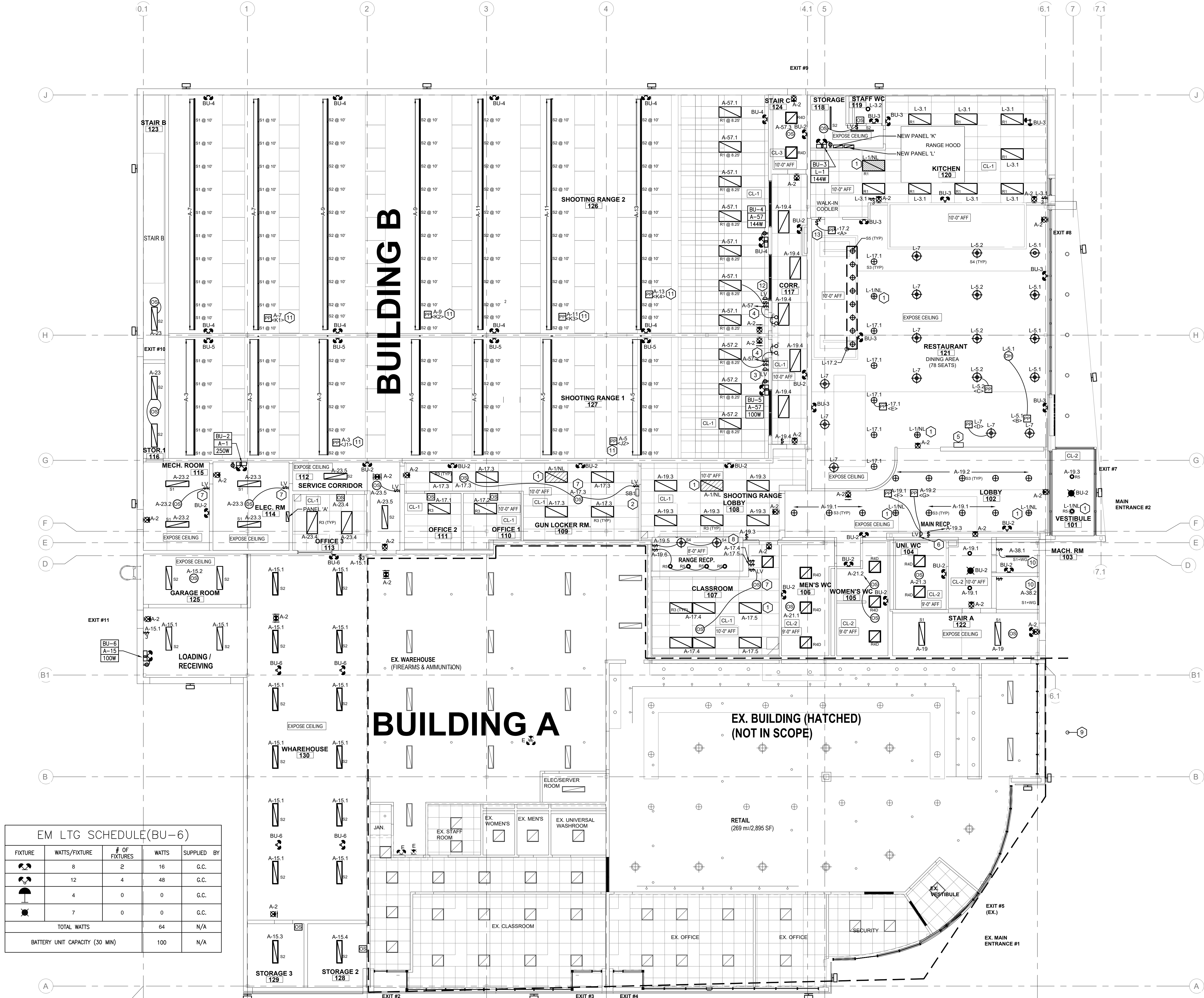
FIREARMS OUTLET CANADA

725 WESTNEY ROAD SOUTH,
AJAX, ONTARIO L1S 7J7

Drawing Name :

LUMINAIRE SCHEDULES

Date	JAN 2025	Project No :	25016
Scale :	AS NOTED	Drawing No : E1.4	
Drawn by :	JAC		
Checked by :	JG		



EM LTG SCHEDULE(BU-6)				
FIXTURE	WATTS/FIXTURE	# OF FIXTURES	WATTS	SUPPLIED BY
	8	2	16	G.C.
	12	4	48	G.C.
	4	0	0	G.C.
	7	0	0	G.C.
TOTAL WATTS			64	N/A
BATTERY UNIT CAPACITY (30 MIN)			100	N/A

LIGHTING GENERAL NOTES

- REFER TO ARCHITECTURAL DETAILS FOR MOUNTING INSTALLATION REQUIREMENTS PRIOR TO ROUGH-IN. EXACT FIXTURE QUANTITIES & LOCATIONS TO BE PROVIDED AS PER ARCHITECTURAL DRAWINGS. ELECTRICAL ENGINEER'S DRAWINGS ARE FOR CIRCUITING AND POWER REQUIREMENTS.
- PROVIDE INDEPENDENT CHAIN SUPPORT FOR LIGHTING FIXTURE INSTALLED ON T-BAR CEILING.

CODED LIGHTING NOTES

- CONNECT NIGHT LIGHTS AND EMERGENCY BATTERY UNITS AHEAD OF ANY LOCAL SWITCHING.
- MASTER SWITCH BANK FOR GUN RANGE CIRCULATION AREA LIGHTING. PROVIDE TYPEWRITTEN LABELS FOR SWITCHES AS FOLLOWS: (SB-1)
 - SW1: CORRIDOR LIGHTING
 - T1: CORRIDOR LIGHTING OVERRIDE
- PROVIDE ACUTY nLIGHT BATTERY-POWERED WALL SWITCH (MODEL: iPODUA 2P DX) FOR RANGE LIGHTING CONTROL. PROVIDE TYPEWRITTEN LABELS FOR SWITCH AS FOLLOWS: (SB-2)
 - DM8: RANGE 1 BACK (ON/OFF/DIM)
 - DM9: RANGE 1 FRONT (ON/OFF/DIM)
- PROVIDE 3 WAYS SWITCH TO CONTROL RED AND GREEN INDICATOR LIGHT ABOVE THE DOOR. PROVIDE LABEL WITH DESCRIPTION, RED ON TOP AND GREEN AT THE BOTTOM ON THE COVER PLATE.
- MASTER SWITCH BANK FOR RESTAURANT LIGHTING. PROVIDE TYPEWRITTEN LABELS FOR SWITCHES AS FOLLOWS: (SB-3)
 - DM 3: DINNING AREA PENDANTS 1 (L-5.1)
 - DM 4: DINNING AREA PENDANTS 2 (L-5.2)
 - DM 5: DINNING AREA PENDANTS 3 (L-7)
 - DM 6: DINNING AREA PENDANTS 4 (L-9.1)
 - T2: DINNING LIGHTING OVERRIDE
- SWITCH BANK (SB-4) PROVIDE nLIGHT MANUAL DIMMER (MODEL: iPODUA 2P DX) FOR PUBLIC MAIN LOBBY LIGHTING CONTROL AND SWITCH BELOW. PROVIDE TYPEWRITTEN LABELS FOR SWITCHES AS FOLLOWS:
 - DM1: LOBBY PENDANT (A-19.1)
 - DM 2: LOBBY PENDANT (A-19.2)
 - SW2: VESTIBULE LTG (A-19.3)
- INTERCONNECT LV OCCUPANCY SENSOR WITH POWER PACK AND LV WALL SWITCH FOR LIGHTING CONTROL.
- TOGGLE SWITCH DOWNSTREAM OF OCCUPANCY SENSOR FOR ROOM LIGHTING CONTROL.
- EXISTING FOC AREA LIGHTING. EMERGENCY LIGHTING AND LIGHTING CONTROL TO REMAIN. (NOT IN SCOPE)
- PROVIDE WIRE GUARD FOR STRIP LIGHT
- ACUTY WIRELESS DIMMING POWER PACK RPP20D EFP
- PROVIDE ACUTY nLIGHT BATTERY-POWERED WALL SWITCH (MODEL: iPODUA 2P DX) FOR RANGE LIGHTING CONTROL. PROVIDE TYPEWRITTEN LABELS FOR SWITCH AS FOLLOWS: (SB-5)
 - DM10: RANGE 2 BACK (ON/OFF/DIM)
 - DM11: RANGE 2 FRONT (ON/OFF/DIM)
- PROVIDE ACUTY nLIGHT SINGLE POLE WALL DIMMER SWITCH LINK TO POWER PACK FOR CONTROL OF BAR LIGHTING.

EM LTG SCHEDULE(BU-2)

FIXTURE	WATTS/FIXTURE	# OF FIXTURES	WATTS	SUPPLIED BY
	8	15	120	G.C.
	12	1	12	G.C.
	4	0	0	G.C.
	7	2	14	G.C.
TOTAL WATTS			146	N/A
BATTERY UNIT CAPACITY (30 MIN)			250	N/A

EM LTG SCHEDULE(BU-3)

FIXTURE	WATTS/FIXTURE	# OF FIXTURES	WATTS	SUPPLIED BY
	8	5	40	G.C.
	12	3	36	G.C.
	4	0	0	G.C.
	7	0	0	G.C.
TOTAL WATTS			76	N/A
BATTERY UNIT CAPACITY (30 MIN)			144	N/A

EM LTG SCHEDULE(BU-4)

FIXTURE	WATTS/FIXTURE	# OF FIXTURES	WATTS	SUPPLIED BY
	8	10	80	G.C.
	12	0	0	G.C.
	4	0	0	G.C.
	7	0	0	G.C.
TOTAL WATTS			80	N/A
BATTERY UNIT CAPACITY (30 MIN)			144	N/A

EM LTG SCHEDULE(BU-5)

FIXTURE	WATTS/FIXTURE	# OF FIXTURES	WATTS	SUPPLIED BY
	8	5	40	G.C.
	12	0	0	G.C.
	4	0	0	G.C.
	7	0	0	G.C.
TOTAL WATTS			40	N/A
BATTERY UNIT CAPACITY (30 MIN)			100	N/A

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No.	Date:	Issued/Revision:	By



Project:

FIREARMS OUTLET CANADA

725 WESTNEY ROAD SOUTH,
AJAX, ONTARIO L1S 7J7

Drawing Name:

ELECTRICAL LIGHTING AND
EMERGENCY LIGHTING
PLAN - GROUND FLOOR

Date: JAN 2025 Project No: 25016

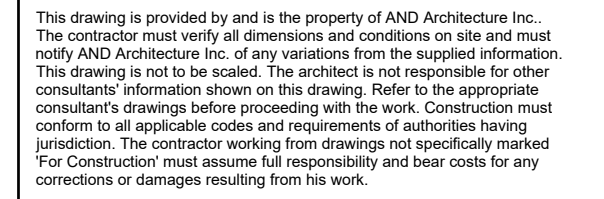
Scale: AS NOTED

Drawn by: JAC

Checked by: JG





E3.0

1 ELECTRICAL LIGHTING AND EMERGENCY LIGHTING PLAN - GROUND FLOOR
SCALE: 1/8" = 1'-0"



7181 WOODBINE AVE. UNIT 229
MARKHAM ONTARIO L3R 1A3
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Job No : 25016

EM LTG SCHEDULE(BU-8)				
FIXTURE	WATTS/FIXTURE	# OF FIXTURES	WATTS	SUPPLIED BY
	8	8	64	G.C.
	12	0	0	G.C.
	4	0	0	G.C.
	7	0	0	G.C.
TOTAL WATTS			64	N/A
BATTERY UNIT CAPACITY (30 MIN)			144	N/A

3	2025-06-12	ISSUED FOR TENDER	JG
2	2025-05-28	ISSUED FOR PERMIT/TENDER REVIEW	JG
1	2025-05-02	ISSUED FOR REVIEW	JAC
No.	Date:	Issued/Revision:	By

1. PRIOR TO ARCHITECTURAL DETAILS FOR MOUNTING INSTALLATION REQUIREMENTS REFER TO ROUGH-IN. EXACT FIXTURE QUANTITIES & LOCATIONS TO BE PROVIDED AS PER ARCHITECTURAL DRAWINGS. ELECTRICAL ENGINEER'S DRAWINGS ARE FOR CIRCUITING AND POWER REQUIREMENTS.
2. PROVIDE INDEPENDENT CHAIN SUPPORT FOR LIGHTING FIXTURE INSTALLED ON T-BAR CEILING.

1. PROVIDE 3 WAYS SWITCH TO CONTROL RED AND GREEN INDICATOR LIGHT ABOVE THE DOOR. PROVIDE LABEL WITH DESCRIPTION, RED ON TOP AND GREEN AT THE BOTTOM ON THE COVER PLATE.
2. PROVIDE ACUTLY NIGHT BATTERY-POWERED WALL SWITCH (MODEL: rPOBDA 2P DX) FOR CLAYHOUSE WHITE LIGHT AND BLUE LIGHT. PROVIDE TYPEWRITTEN LABELS FOR SWITCH AS FOLLOW (SB-4)
 - DM10: WHITE LIGHT (ON/OFF/DIM)
 - SW3: BLUE LIGHT (ON/OFF)
3. PROVIDE nLIGHT WIRELESS POWER PACK (MODEL: RPP20 D EFP) FOR THE CLAYHOUSE RANGE WHITE LIGHT AND CONTROL BY THE nLIGHT BATTERY-POWERED WALL SWITCH
4. CONNECT NIGHT LIGHTS AND EMERGENCY BATTERY UNITS AHEAD OF ANY LOCAL SWITCHING.



FIREARMS OUTLET CANADA

725 WESTNEY ROAD SOUTH,
AJAX, ONTARIO L1S 7J7

Drawing Name :

ELECTRICAL LIGHTING AND EMERGENCY LIGHTING PLAN - SECOND FLOOR

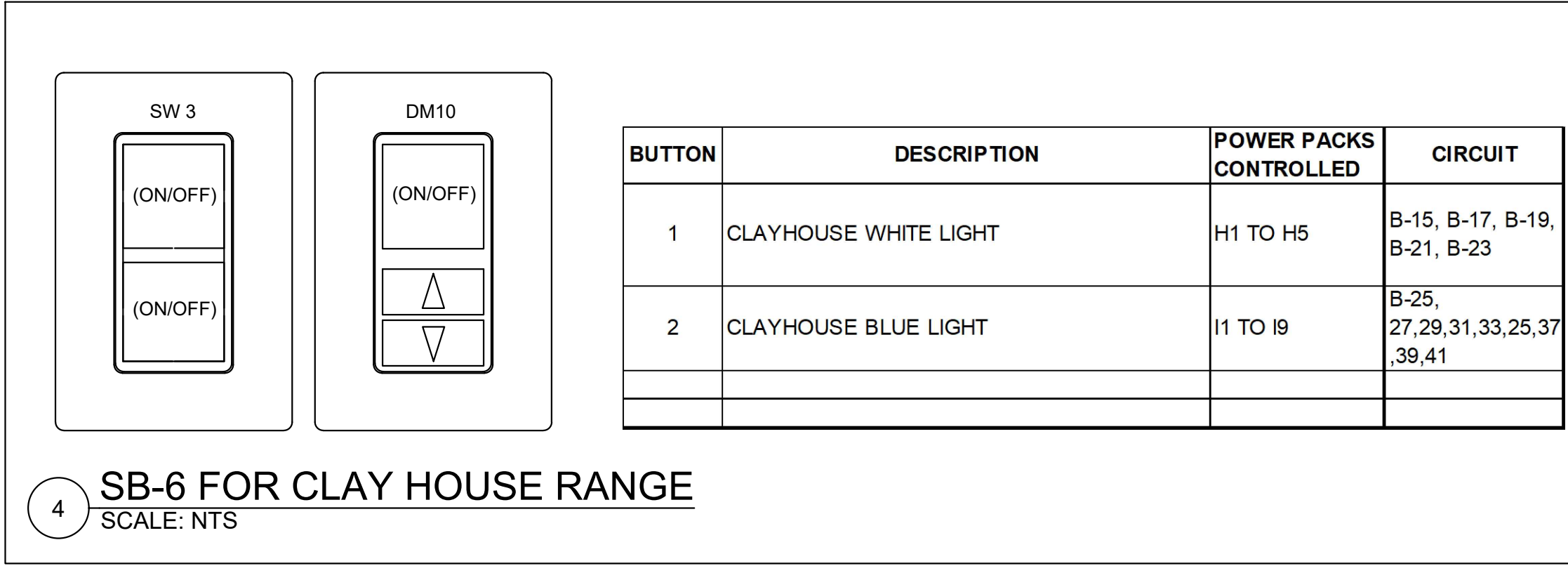
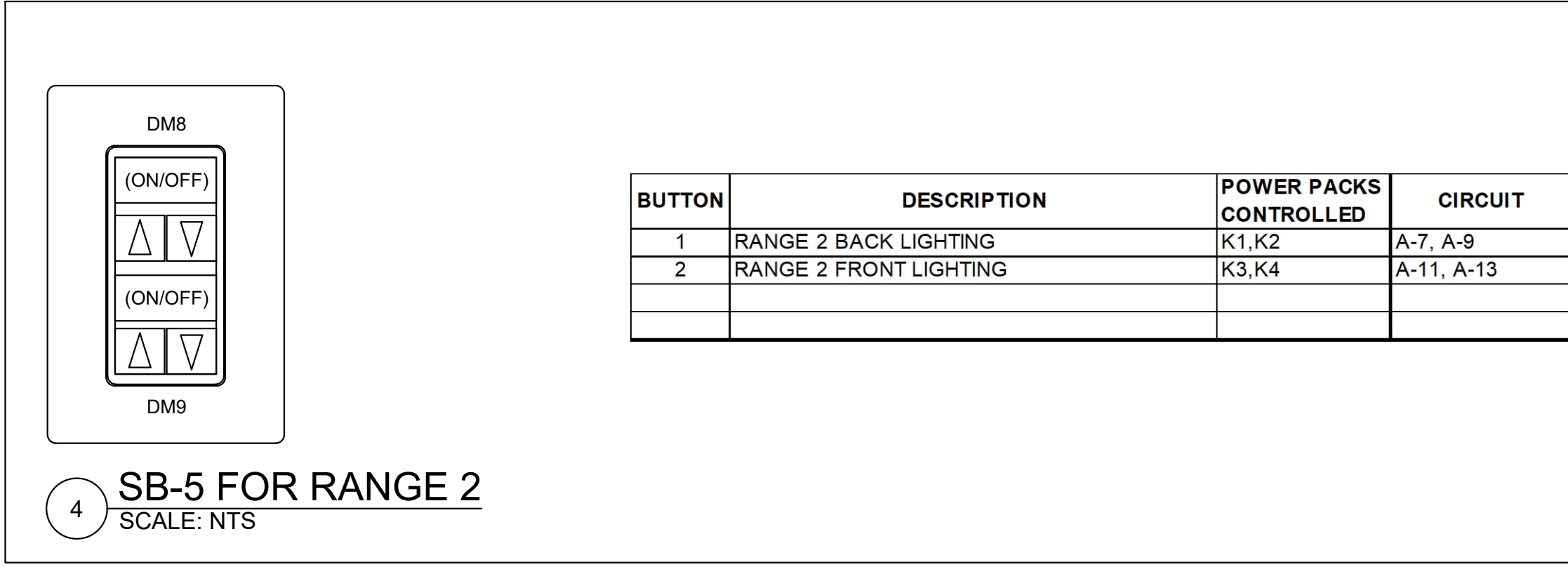
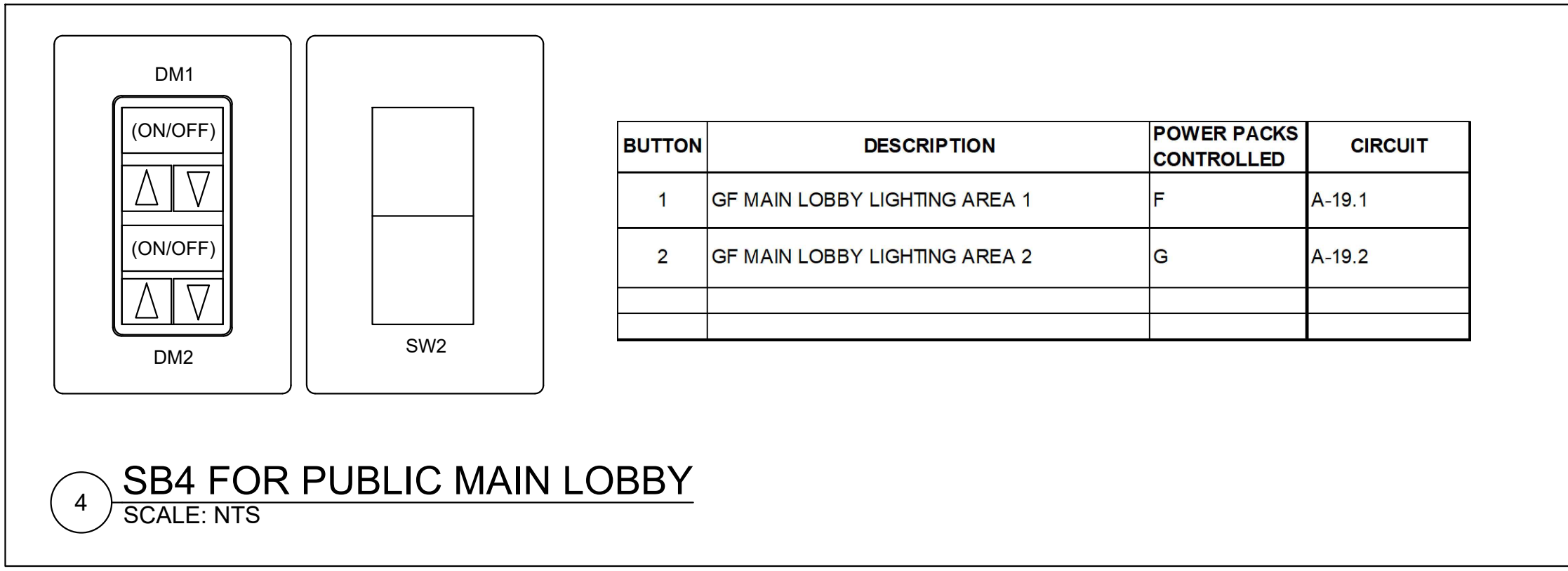
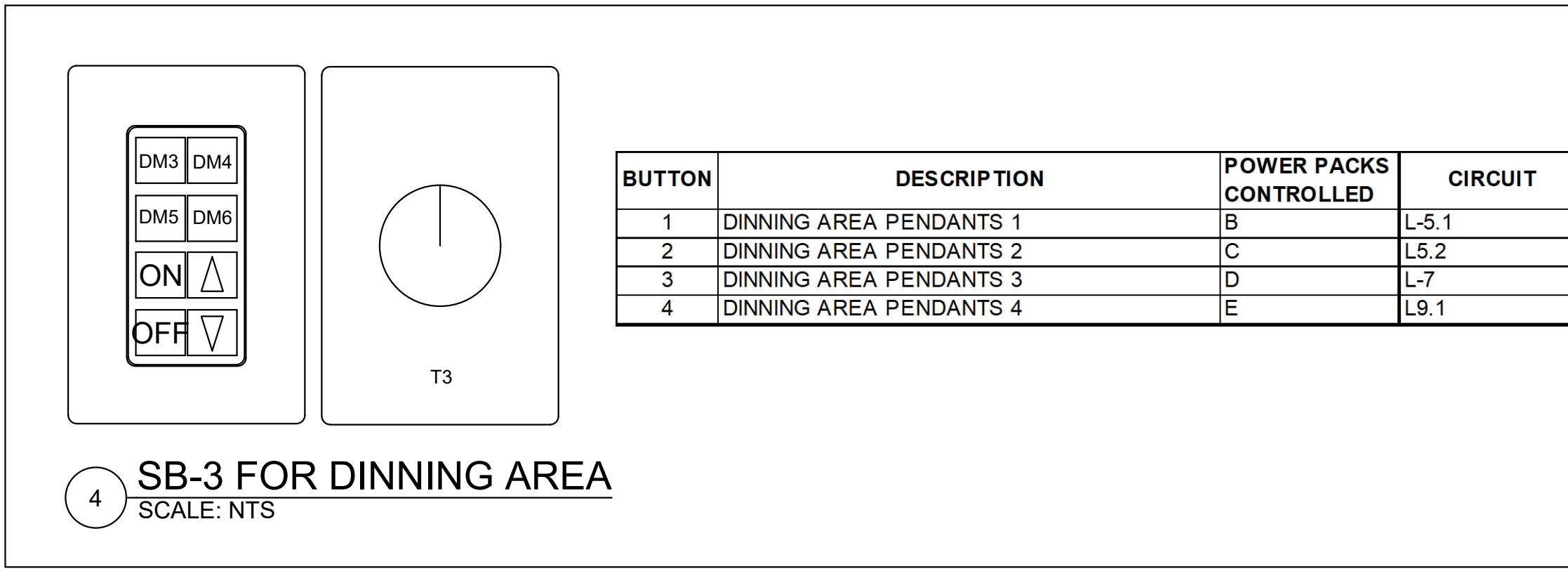
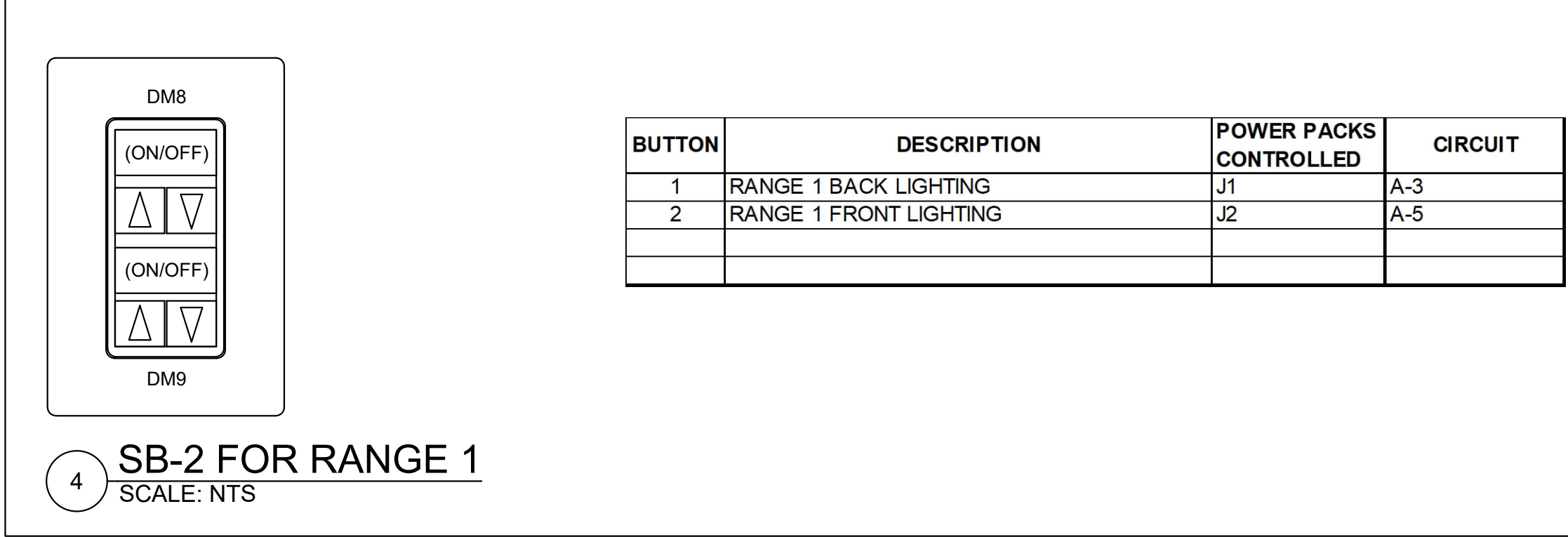
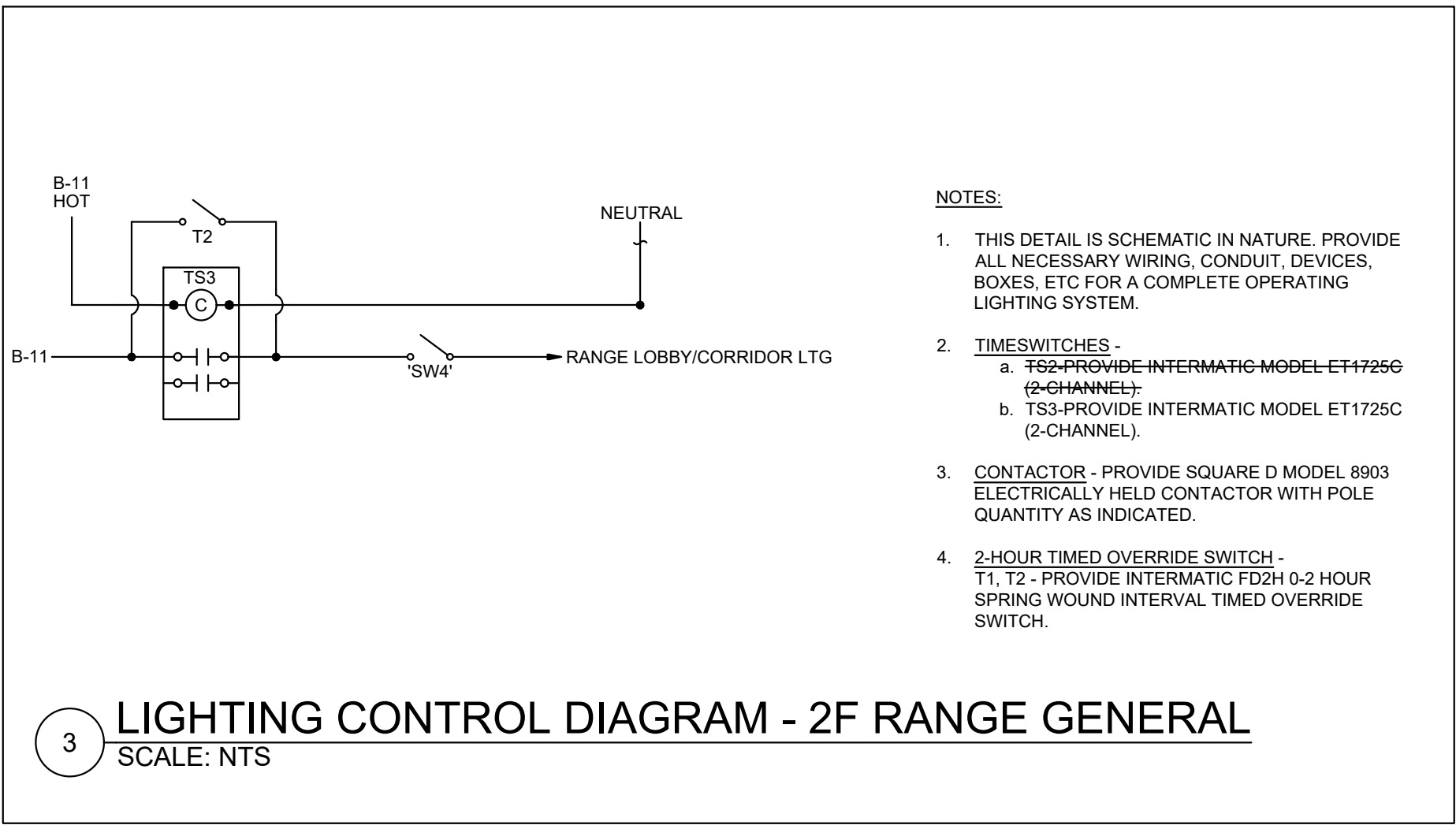
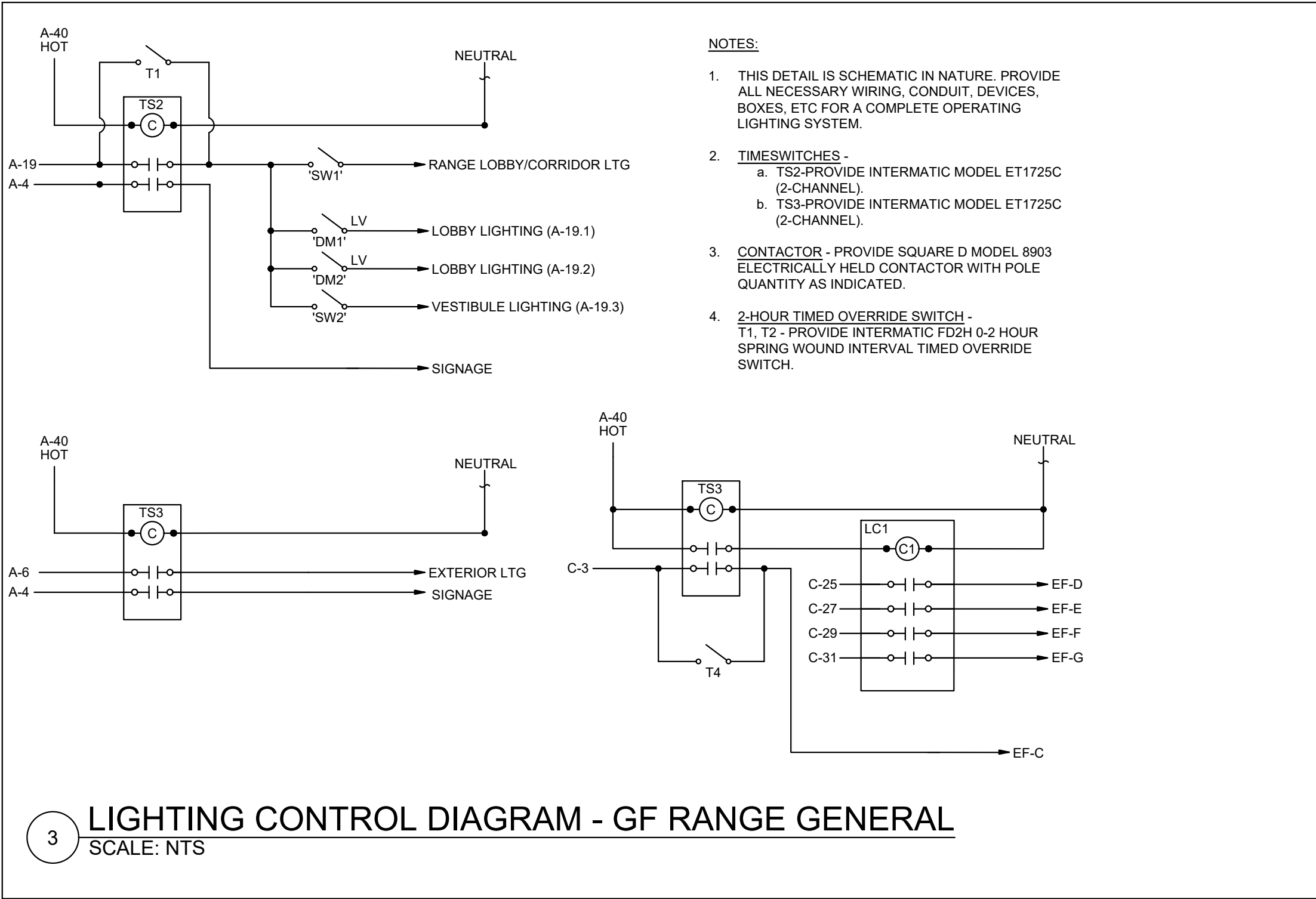
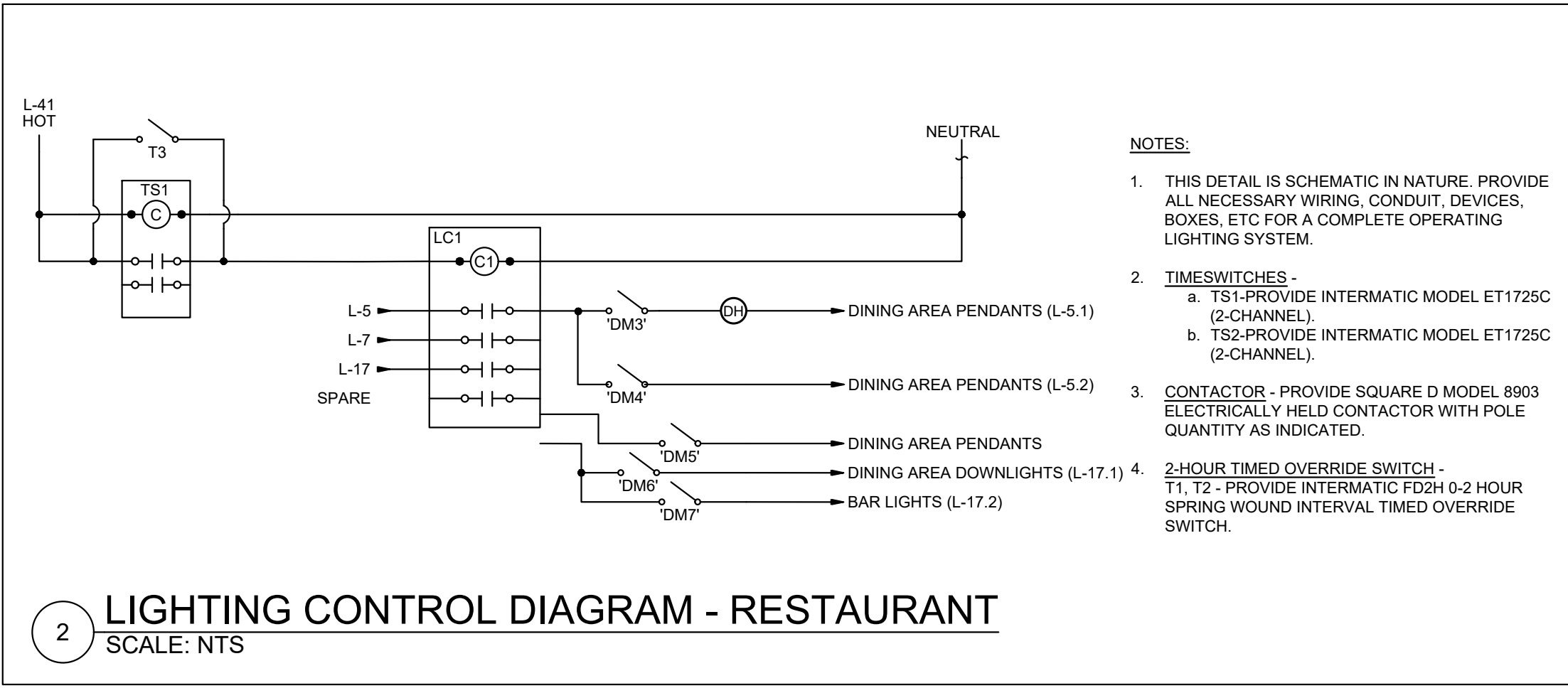
Date	JAN 2025
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Project No :	25016
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Scale : AS NOTE

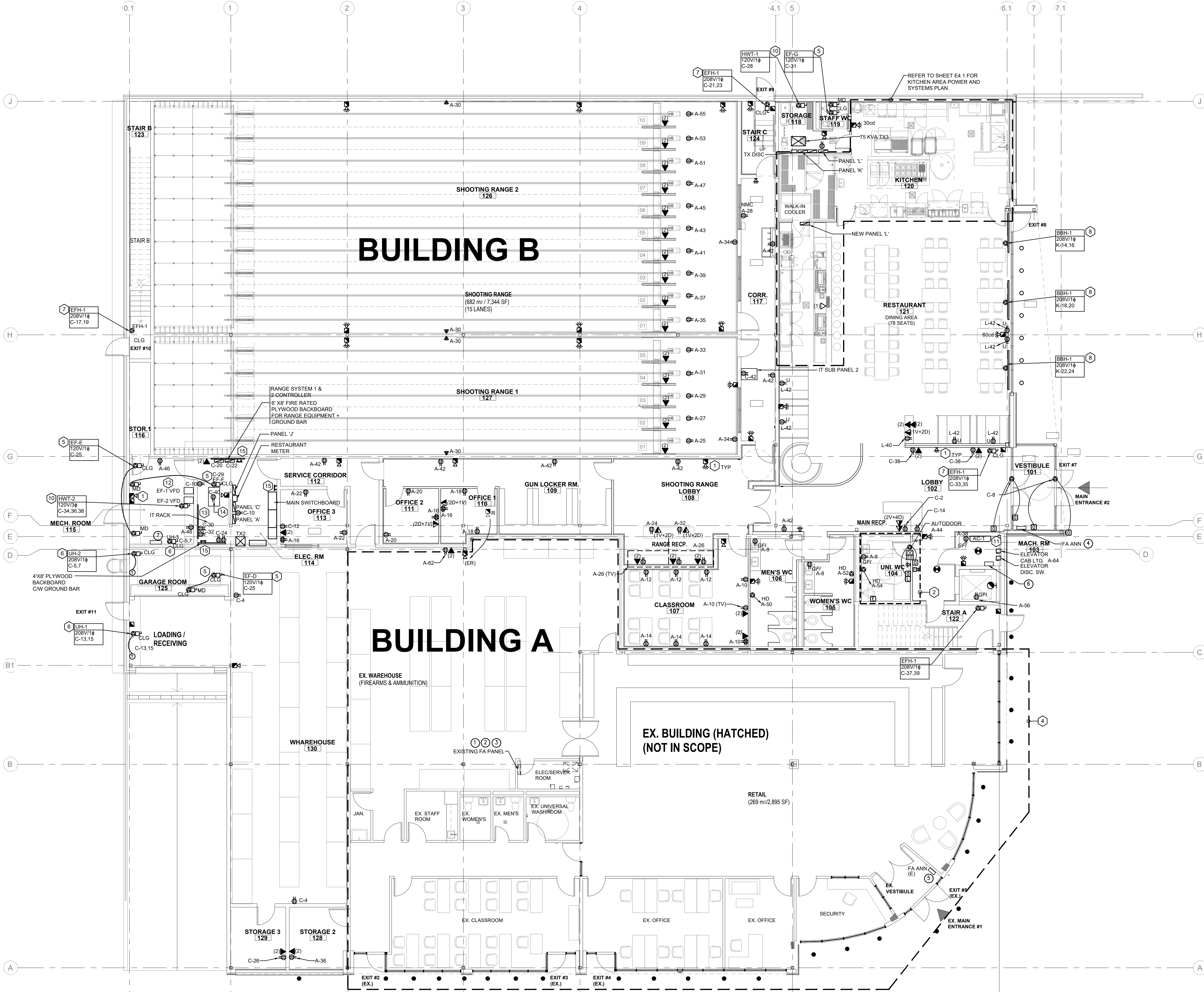
Drawn by :

E3.1



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2	2025-05-28	ISSUED FOR PERMIT/TENDER REVIEW	JG
1	2025-05-02	ISSUED FOR REVIEW	JAC
No.	Date:	Issued/Revision:	By





ELECTRICAL POWER, SYSTEMS AND FIRE ALARM PLAN - GROUND FLOOR
SCALE: 1/8" = 1'-0"

POWER GENERAL NOTES

- REFER TO ARCHITECTURAL DRAWING FOR EXACT LOCATION, AND MOUNTING HEIGHT OF OUTLETS.
- FOR LOCATIONS OF CONNECTIONS IN-MILLWORK, COORDINATE WITH MILLWORK DETAILS AND FIXTURE PLAN, OBTAIN TEMPLATE FROM MILLWORK CONTRACTOR.
- LOCATION OF ELECTRICAL UTILITY OUTLETS MAY REQUIRE ADJUSTMENT. DETERMINE ON SITE WITH THE OWNER.
- PROVIDE TYPE WRITTEN LABEL WITH PANEL DESIGNATION AND CIRCUIT NUMBER FOR POWER OUTLETS ON THE COVER PLATE.
- GENERAL RECEPTACLES TO BE MOUNTED AT +18" A.F.F. UNLESS NOTED OTHERWISE. WHITE COLOR DEVICE AND PLATE.
- PROVIDE SEPARATE NEUTRAL FOR RECEPTACLE OUTLETS.
- FLOOR CUTTING, FLOOR TRENCHING AND CORE DRILLING MUST BE APPROVED BY OWNER. SCAN OR X-RAY AS REQUIRE. ALL ASSOCIATED COST WILL BE INCLUDED IN THE BID.
- PAINT EXPOSED CONDUIT TO MATCH ADJACENT FINISH.

CODED POWER NOTES

- NEW OR RELOCATED FIRE ALARM DEVICE TO MATCH EXISTING. CONNECT TO EXISTING BASE BUILDING FIRE ALARM SYSTEM. VERIFY OPERATION OF FIRE ALARM SYSTEM UPON COMPLETION OF CONSTRUCTION. COORDINATE ANY REQUIRED MODIFICATIONS TO THE FIRE ALARM SYSTEM WITH THE BASE BUILDING FIRE ALARM MAINTENANCE CONTRACTOR. INCLUDE THE COST IN THE BID.
- REFER TO BARRIER FREE WASHROOM DETAIL ON E1.3 FOR ADDITIONAL INFORMATION
- PROVIDE POWER FOR SIGNAGE.
- EXISTING POWER/DATA/SYSTEMS OUTLETS IN EXISTING FOC AREA TO REMAIN. (NOT IN SCOPE UNO).
- NEW EXHAUST FAN INTERLOCK WITH AIR INTAKE DAMPER. TO BE CONTROLLED BY TIMER. REFER TO CONTROL DIAGRAM ON E-3.2.
- ELECTRIC UNIT HEATER SUPPLIED BY MECHANICAL TRADE AND INSTALLED BY ELECTRICAL TRADE. REFER TO MECHANICAL DRAWING FOR SCHEDULE. PROVIDE LIVE VOLTAGE THERMOSTAT FOR HEATER CONTROL.
- FORCE FLOW HEATER SUPPLIED BY MECHANICAL TRADE. INSTALLED BY ELECTRICAL TRADE. REFER TO MECHANICAL DRAWING FOR SCHEDULE.
- BASEBOARD HEATER SUPPLIED BY MECHANICAL TRADE. INSTALLED BY ELECTRICAL TRADE. REFER TO MECHANICAL DRAWING FOR SCHEDULE.
- AC-1 SUPPLIED BY MECHANICAL TRADE. INSTALLED BY ELECTRICAL TRADE. REFER TO MECHANICAL DRAWING FRO SCHEDULE. POWER FED FROM EXTERIOR CU-1 ON ROOF.
- HOT WATER HEATER SUPPLIED BY MECHANICAL TRADE. INSTALLED BY ELECTRICAL TRADE. REFER TO MECHANICAL DRAWING FOR SCHEDULE.
- INDOOR AC UNIT FED FROM OUTDOOR CU-1
- CONFIRM RANGE EF VFD LOCATION WITH ATI. PROVIDE ALL REQUIRED POWER FEEDER CONNECTION.
- PROVIDE NEW 6(W) X 8(H) 3/4" FIRE RATED PLYWOOD BACKBOARD FOR SECURITY DEVICES C/W TWO GFI RECEPTACLES AND A TWO 24" X 8" X 8" WIREWAY AT 8' AFF FOR COLLECTING ALL HOME RUN CONDUIT.
- CCTV SYSTEM HEAD END RACK IOT BY CLIENT'S VENDOR NEW AGE GROUP. CONFIRM OUTLET LOCATION ON SITE.
- GROUND BAR CONNECT TO BUILDING GROUND

FIRE ALARM SYSTEM NOTES

- THE BUILDING HAS AN EXISTING FIRE ALARM SYSTEM (MIRCOM FLEXNET) WITH MAIN PANEL LOCATED IN THE FOC ELECTRICAL ROOM AND AN ANNUNCIATOR PANEL LOCATED IN THE VESTIBULE.
- EXISTING FIRE ALARM MONITORING DEVICES SHALL REMAIN AS IS
- MODIFY/UPGRADE EXISTING FIRE ALARM PANEL TO ACCOMMODATE NEW ZONES AND DEVICES AS REQUIRED FOR THE EXPANSION. PROVIDE SHOP DRAWING FOR REVIEW.
- PROVIDE NEW ANNUNCIATOR AT THE EXPANSION ARE MAIN ENTRANCE
- MODIFY/UPGRADE EXISTING ANNUNCIATOR TO INCLUDE ADDITIONAL ZONES
- PROVIDE OUTPUT RELAY WITH FOLLOWING SIGNALS TO ELEVATOR CONTROLLER IN ELEVATOR MACHINE ROOM
 - ELEVATOR LOBBY GENERAL ALARM (FROM NEW SMOKE DETECTORS AT EACH FLOOR ELEVATOR LOBBY, NOT FROM PULL STATIONS)
 - ELEVATOR SHAFT SMOKE DETECTOR
 - ELEVATOR PIT HEAT DETECTOR
 - ELEVATOR MACHINE ROOM SMOKE DETECTOR
 - GROUND FLOOR ELEVATOR LOBBY SMOKE DETECTOR
 - SPARE
- PROVIDE MONITORING MODULES FOR SPRINKLER SYSTEM REFER TO ZONING DIAGRAM

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Job No: 25016

3	2025-06-12	ISSUED FOR TENDER	JG
2	2025-05-28	ISSUED FOR PERMIT/TENDER REVIEW	JG
1	2025-05-02	ISSUED FOR REVIEW	JAC
No.	Date:	Issued/Revision:	By



Project: FIREARMS OUTLET CANADA
725 WESTNEY ROAD SOUTH,
AJAX, ONTARIO L1S 7J7

Drawing Name: ELECTRICAL POWER AND FIRE ALARM PLAN - GROUND FLOOR

Date	JAN 2025	Project No:	25016
Scale:	AS NOTED	Drawn by:	JAC
Checked by:	JG	Drawing No:	E4.0

4.1

5

6.1

7

7.1

J

H

POWER GENERAL NOTES

- REFER TO ARCHITECTURAL DRAWING FOR EXACT LOCATION, AND MOUNTING HEIGHT OF OUTLETS.
- FOR LOCATIONS OF CONNECTIONS IN-MILLWORK, COORDINATE WITH MILLWORK DETAILS AND FIXTURE PLAN, OBTAIN TEMPLATE FROM MILLWORK CONTRACTOR.
- LOCATION OF ELECTRICAL UTILITY OUTLETS MAY REQUIRE ADJUSTMENT. DETERMINE ON SITE WITH THE OWNER.
- PROVIDE TYPE WRITTEN LABEL WITH PANEL DESIGNATION AND CIRCUIT NUMBER FOR POWER OUTLETS ON THE COVER PLATE. ALL KITCHEN AREA OUTLET TO BE BLOCK WITH STAINLESS STEEL COVER PLATE.
- GENERAL RECEPTACLES TO BE MOUNTED AT +18" A.F.F. UNLESS NOTED OTHERWISE. WHITE COLOR DEVICE AND PLATE.
- FLOOR CUTTING, FLOOR TRENCHING AND CORE DRILLING MUST BE APPROVED BY OWNER. SCAN OR X-RAY AS REQUIRE. ALL ASSOCIATED COST WILL BE INCLUDED IN THE BID.
- PAINT EXPOSED CONDUIT TO MATCH ADJACENT FINISH.

CODED POWER NOTES

- KITCHEN EQUIPMENT UNDER THIS HOOD TO SHUT DOWN UPON ACTIVATION OF HOOD FIRE SUPPRESSION SYSTEM. PROVIDE NECESSARY CONTACTS, BOXES, WIRING ETC FOR AN OPERATIONAL SYSTEM. ~~REFER TO DETAIL 3 ON THIS DRAWING FOR ADDITIONAL INFORMATION.~~
- PROVIDE SIGNAL FROM HOOD FIRE SUPPRESSION SYSTEM TO EXISTING BUILDING FIRE ALARM SYSTEM AS AN ADDITIONAL FIRE ALARM ZONE. PROGRAM EXISTING FIRE ALARM SYSTEM AS REQUIRED.
- PROVIDE GFI PROTECTION DEVICE TO FEED SELF REGULATED HEAT TRACING CABLE FOR FREEZER CONDENSATE LINE. CONFIRM WITH FREEZER SUPPLIER FOR INSTALLATION DETAILS.

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No.	Date:	Issued/Revision:	By	



Project :

FIREARMS OUTLET CANADA

725 WESTNEY ROAD SOUTH,
AJAX, ONTARIO L1S 7J7

Drawing Name :

ELECTRICAL ENLARGED
POWER PLAN - KITCHEN

Date JAN 2025 Project No : 25016

Scale : AS NOTED

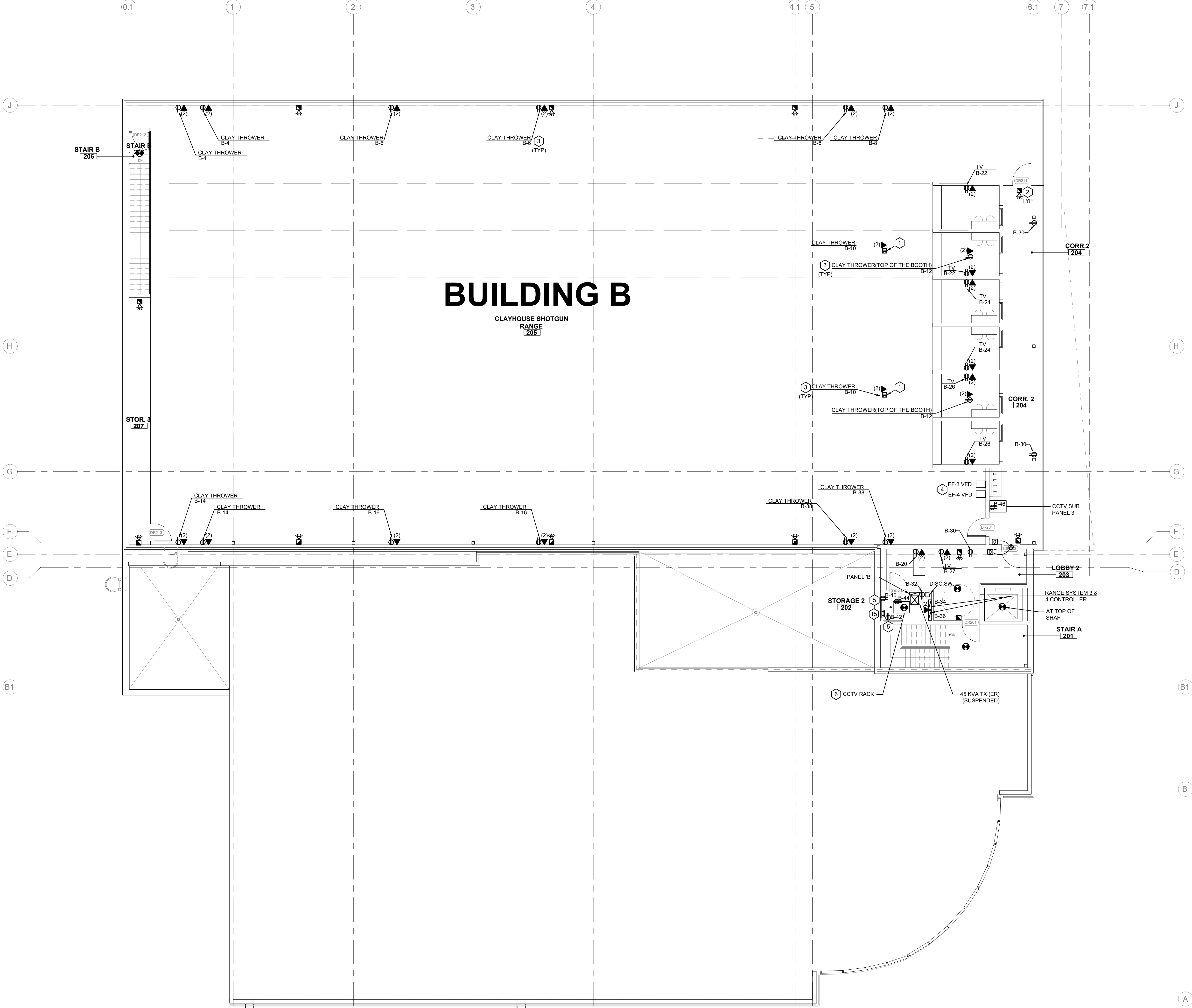
Drawn by : JAC

Checked by : JG

Drawing No : E4.1

ELECTRICAL ENLARGED POWER PLAN - KITCHEN

SCALE: 1/4" = 1'-0"



CODED POWER NOTES

1. PROVIDE 4" HUBBELL SYSTEM ONE SERIES FIRE RATED POKE THROUGH WITH ONE DUPLEX + TWO DATA OUTLET OR EQUIVALENT.
2. EXISTING/RELOCATE/NEW FIRE ALARM DEVICE TO MATCH BASE BUILDING. CONNECT TO EXISTING BASE BUILDING FIRE ALARM SYSTEM. VERIFY OPERATION OF FIRE ALARM SYSTEM UPON COMPLETION OF CONSTRUCTION. COORDINATE ANY REQUIRED MODIFICATIONS TO THE FIRE ALARM SYSTEM WITH THE BASE BUILDING FIRE ALARM MAINTENANCE CONTRACTOR. INCLUDE THE COST IN THE BID.
3. OUTLET FOR CLAY THROWER, EXACT LOCATION TO BE CONFIRMED ON SITE WITH ATI.
4. CONFIRM RANGE EF VFD LOCATION WITH ATI, PROVIDE ALL REQUIRED POWER FEEDER CONNECTION.
5. PROVIDE TWO NEW 3"(W) X 8"(H) 3/4" FIRE RATED PLYWOOD BACKBOARD FOR SECURITY DEVICES C/W TWO GFI RECEPTACLES AND A TWO 24" X 8" X 6" WIREWAY AT 8' AFF FOR COLLECTING ALL HOME RUN CONDUIT.
6. CCTV SYSTEM HEAD END RACK ICT BY CLIENT'S VENDOR NEW AGE GROUP. CONFIRM OUTLET LOCATION ON SITE.

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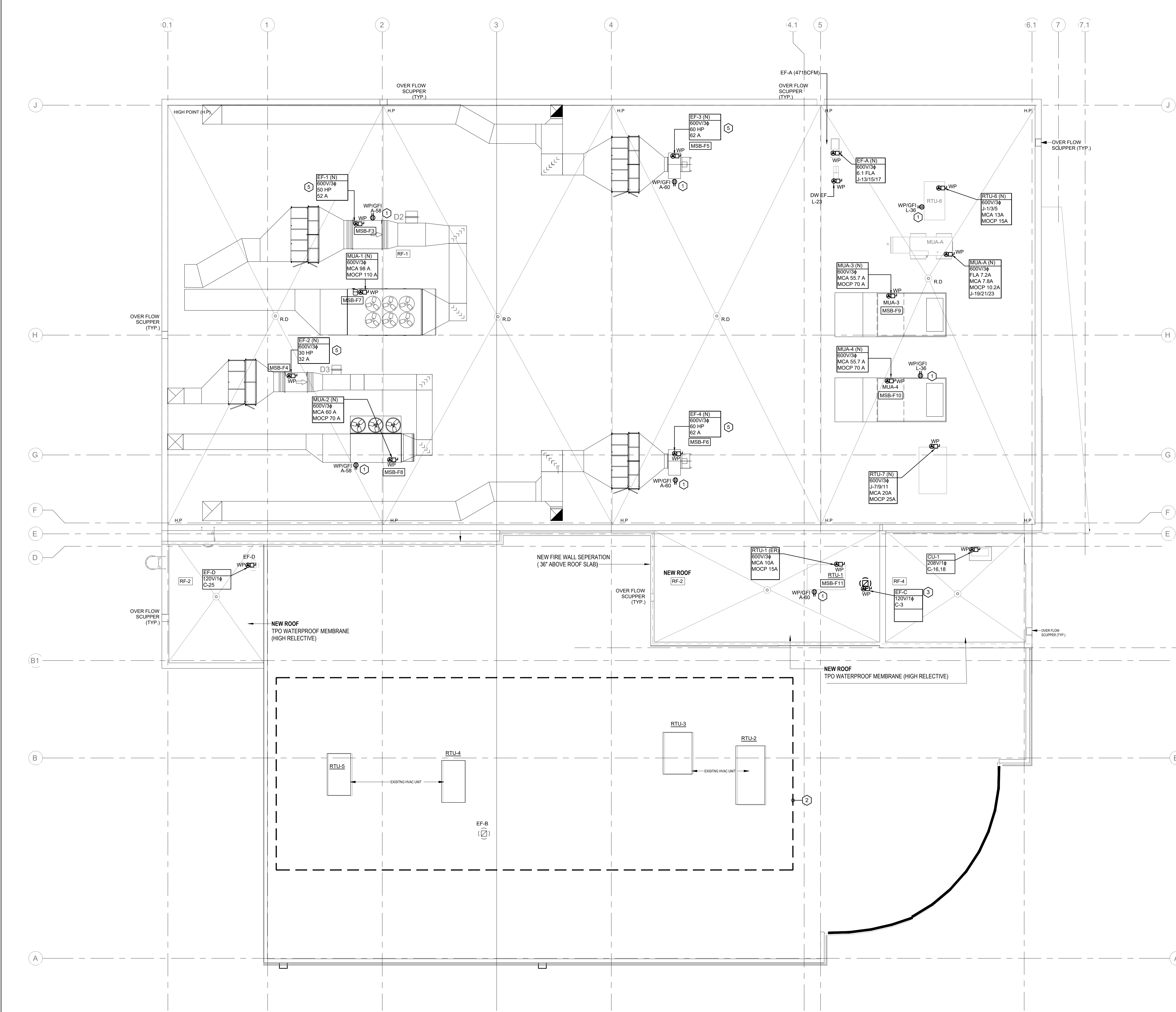


Project :
FIREARMS OUTLET CANADA

725 WESTNEY ROAD SOUTH,
AJAX, ONTARIO L1S 7J7

Drawing Name :
**ELECTRICAL POWER AND
FIRE ALARM PLAN -
SECOND FLOOR**

Date	JAN 2025	Project No :	25016
Scale :	AS NOTED		
Drawn by :	JAC	Drawing No :	E4.2
Checked by :	JG		



POWER GENERAL NOTES

1.

ENSURE ALL NEW EXTERIOR CONDUIT & JUNCTION BOX TO BE WEATHERROOF RIGID PVC TYPE. FINAL CONNECTION TO ROOF TOP MECHANICAL EQUIPMENT SHALL BE LIQUID TIGHT FLEXIBLE CONDUIT SUITABLE FOR OUTDOOR INSTALLATION.

2.

EXACT ROUTING OF NEW FEEDER SHALL BE CONFIRMED ON SITE PRIOR TO BID.

3.

PROVIDE FIRE STOP FOR ANY NEW FEEDER PENETRATIONS THROUGH FIRE RATED FLOOR OR WALLS. SCAN FLOOR PRIOR TO CORE DRILING.

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Job No : 25016

CODED ROOF PLAN NOTES

1.

PROVIDE SERVICE RECEPTACLE FOR MECHANICAL UNIT ON ROOF CIW IN USE COVER. MOUNT OUTLET 800mm AFF.

2.

EXISTING MUAS AND EF FED FROM EXISTING FOC SERVICE TO REMAIM

3.

NEW EXHAUST FAN INTERLOCK WITH AIR INTAKE DAMPER. TO BE CONTROLLED BY TIMER. REFER TO CONTROL DIAGRAM ON E-3.2.

4.

CU-1 SUPPLIED BY MECHANICAL TRADE. INSTALLED BY ELECTRICAL TRADE. REFER TO MECHANICAL DRAWING FRO SCHEDULE.

5.

PROVIDE POWER WIRING FROM SOURCE PANEL TO VFD PROVIDED BY RANGE EQUIPMENT VENDOR, AND FROM VFD TO ROOF EF LOCAL DISCONNECT.

1

ELECTRICAL ROOF PLAN

SCALE: 1/8" = 1'-0"

3	2025-06-12	ISSUED FOR TENDER	JG
2	2025-05-28	ISSUED FOR PERMIT/TENDER REVIEW	JG
1	2025-05-02	ISSUED FOR REVIEW	JAC
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Project :

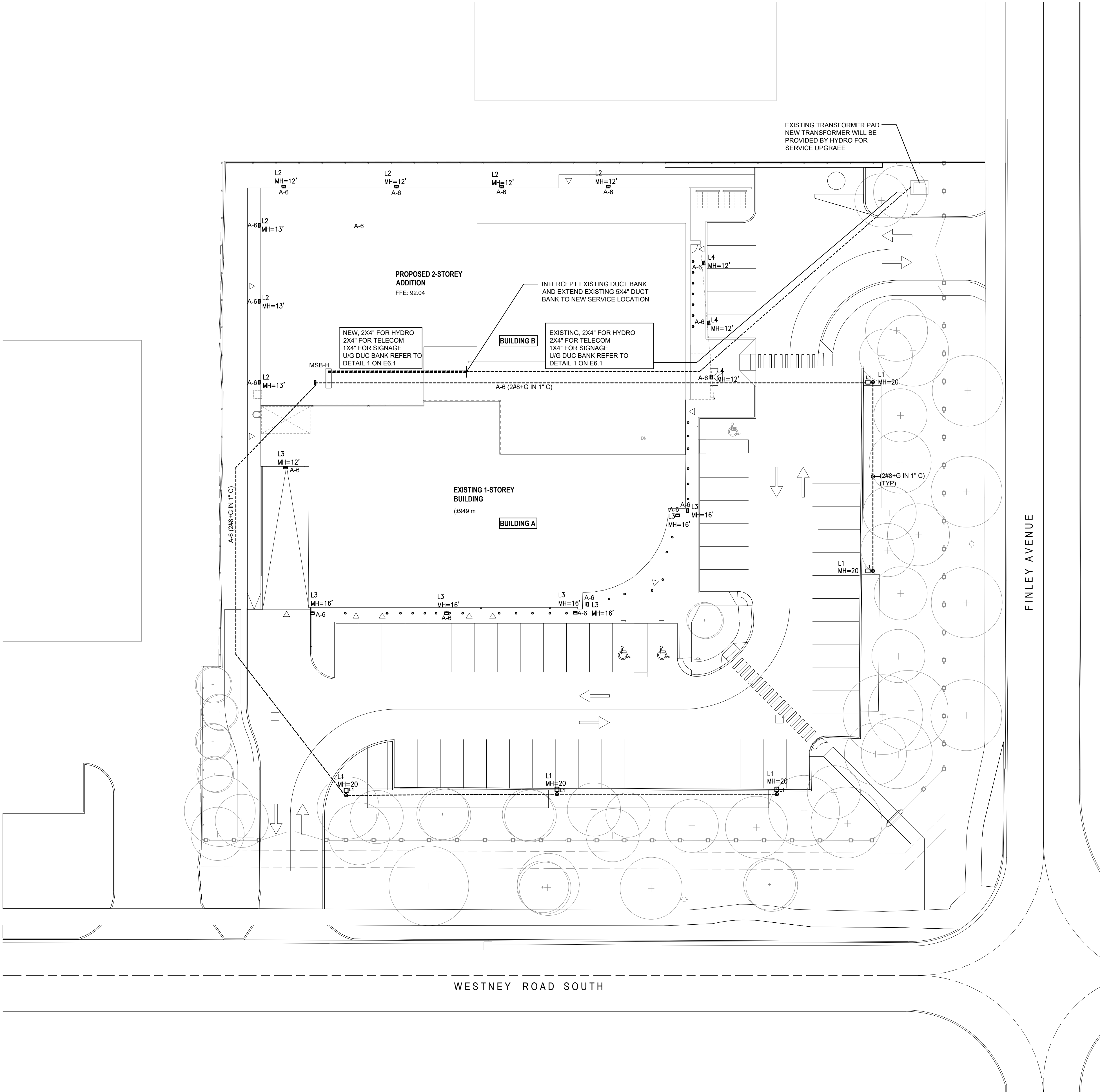
FIREARMS OUTLET CANADA

725 WESTNEY ROAD SOUTH,
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Drawing Name :

ELECTRICAL ROOF PLAN

Date	JAN 2025	Project No :	25016
Scale :	AS NOTED		
Drawn by :	JAC	Drawing No :	E5.0
Checked by :	JG		



LEGEND		
L2A	○—XX	(FIXTURE TYPE)
MH=20	MH=YY	(MOUNTING HEIGHT IN FEET)

GENERAL NOTES

- COORDINATE UNDERGROUND SERVICES WITH ALL OTHER TRADES PRIOR TO COMMENCEMENT OF WORK. PROVIDE LOCATES THROUGH THE PROPOSED PATH OF NEW DUCT BANK TO ENSURE NEW DUCT BANK WILL NOT INTERFERE WITH OTHER EXISTING UNDERGROUND UTILITIES.
- IT IS THIS CONTRACTOR'S RESPONSIBILITY TO OBTAIN LOCAL HYDRO ELEXICON'S LATEST STANDARDS AND SPECIFICATIONS AND ADHERE TO ALL REQUIREMENTS RELATED TO ELECTRICAL SERVICE WORK.
- PRIMARY HYDRO DUCT BANK, TRANSFORMER BASE AND GROUNDING FOR TRANSFORMER ARE EXISTING TO REMAIN. THIS CONTRACTOR TO PROVIDE NEW SECONDARY DUCT BANK TO NEW MAIN SWITCH BOARD IN NEW ELECTRICAL ROOM LOCATION. SECONDARY WIRING WILL BE PROVIDED BY THIS CONTRACTOR.
- THE ELECTRICAL CONTRACTOR SHALL MAKE ARRANGEMENTS FOR A SITE MEETING WITH THE GENERAL CONTRACTOR, AND LOCAL HYDRO PRIOR TO INSTALLATION OF BUILDING POWER SUPPLY INFRASTRUCTURE. THE PURPOSE OF THE MEETING IS TO COORDINATE THE WORK, REVIEW THE RESPONSIBILITIES OF HYDRO, THE GENERAL CONTRACTOR AND THE ELECTRICAL CONTRACTOR TO ENSURE THAT THE INSTALLATION OF THE TRANSFORMER AND CABLE DUCTS ADHERE TO HYDRO SPECIFICATIONS.
- LIGHTING POLE BASES AND CONDUIT WITH PULL STRING WILL BE PROVIDED BY THIS CONTRACTOR TO THIS CONTRACTOR TO PROVIDE CONDUIT AND WIRING AS NOTED ON THE PLAN. ALL LIGHTING CONDUITS SHALL BE MINIMUM 27MM PVC TYPE DB-2.
- PROVIDE TWO 100MM COMMUNICATIONS DUCT BANK FROM EXISTING BELL PEDESTAL TO NEW ELECTRICAL ROOM.
- EXACT ROUTING OF CONDUIT ON THE SITE PLAN TO BE CONFIRMED WITH GENERAL CONTRACTOR AND TO BE REFLECTED ON AS BUILT PACKAGE.
- PROVIDE PULL ROPE FOR ALL EMPTY CONDUIT SYSTEMS INSTALLED.
- FOLLOWING WORK RELATED TO THE INCOMING SERVICE MUST BE INCLUDED IN THE BASE BID PRICE:
 - NEW SECONDARY DUCT BANK.
 - SECONDARY FEEDER AS SHOWN.
 - LUGS AT THE TRANSFORMER
 - METER CABINET C/W EMPTY CONDUIT BETWEEN THE METER CABINET AND SWITCHBOARD.
 - ONE TELEPHONE OUTLET IN THE HYDRO METER CABINET.
 - NEW SWITCHBOARD C/W UTILITY COMPARTMENT AND CT'S AND PT'S ETC.
- MOUNTING HEIGHT OF LIGHTING FIXTURE ARE SHOWN ON FLOOR PLAN IN FEET.

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No. Date: Issued/Revision: By:



Project :

FIREARMS OUTLET CANADA

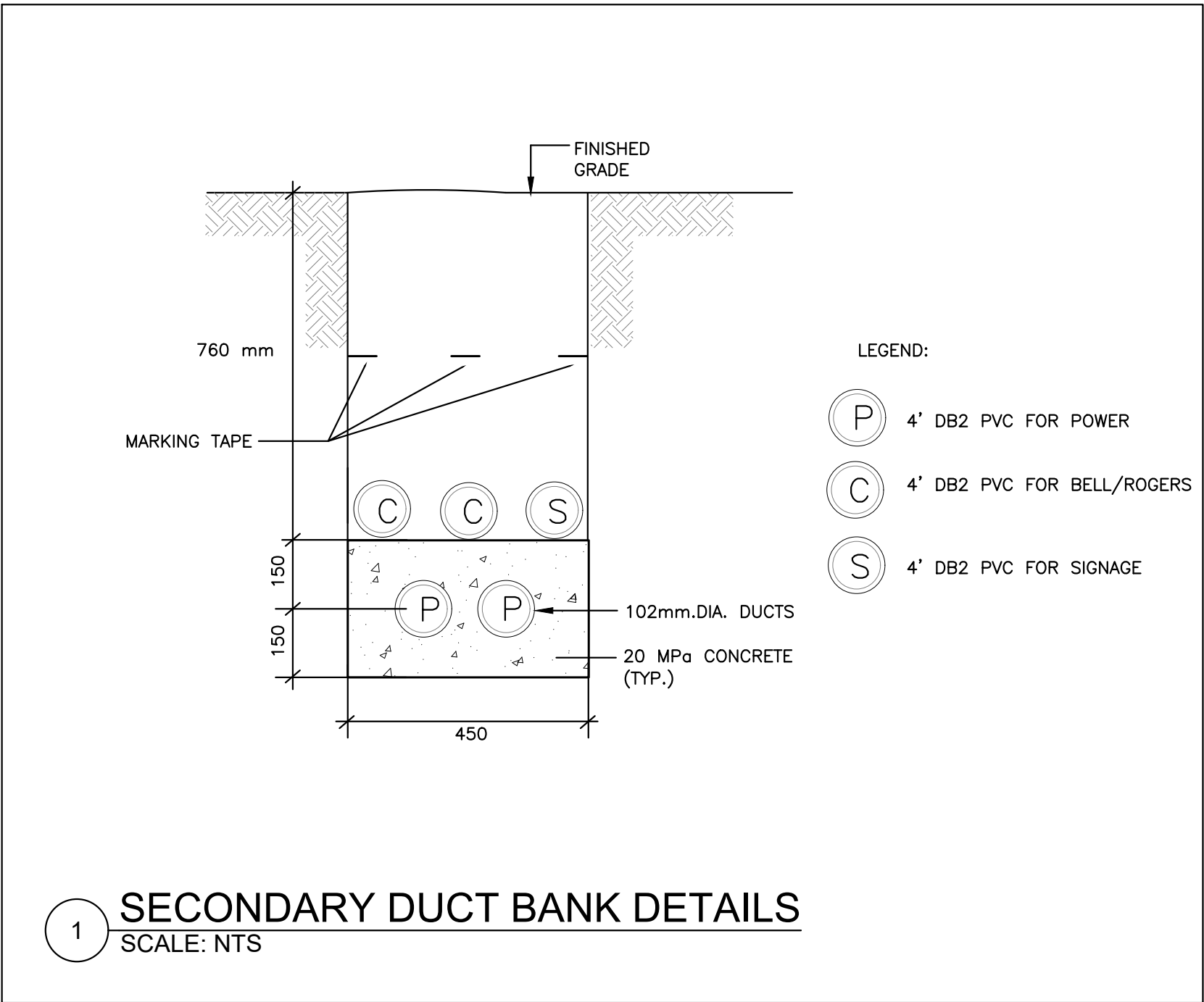
725 WESTNEY ROAD SOUTH,
AJAX, ONTARIO L1S 7J7

Drawing Name :

ELECTRICAL SITE PLAN

Date	JAN 2025	Project No :	25016
Scale :	AS NOTED		
Drawn by :	JAC	Drawing No :	E6.0
Checked by :	JG		

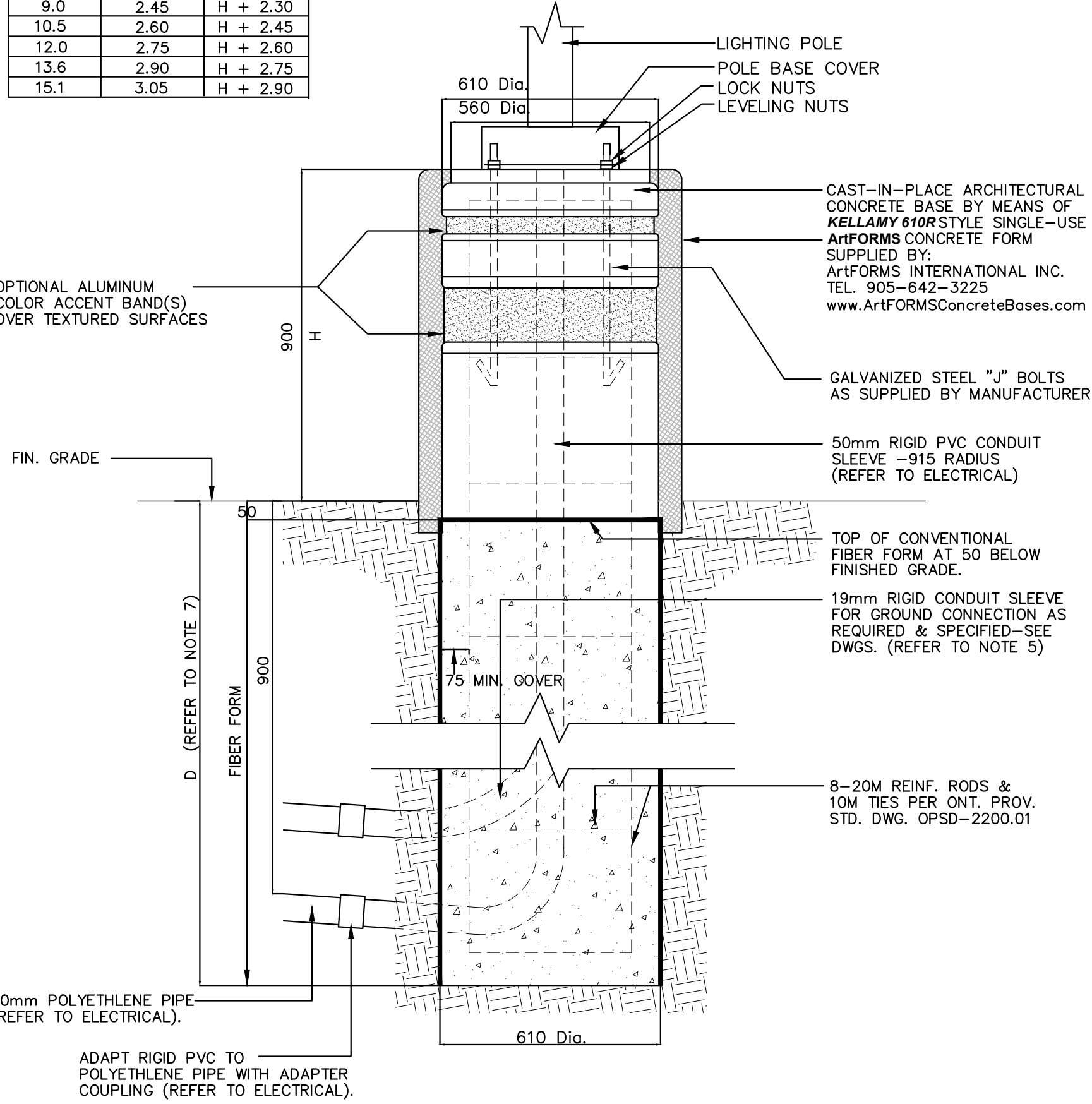
EXTERIOR LIGHTING FIXTURE SCHEDULE					
TYPE	DESCRIPTION	LAMPS	VOLT	MOUNTING	REMARKS
L1 ☐	LED AREA LUMINAIRE POLE MOUNTED FIXTURE WITH HOUSE SIDE SHIELD LITHONIA DSX0-LED-P7-30K-80CRI-T3M-HS	171 W	120V	POLE MOUNTING HEIGHT AS SHOWN ON PLAN	- 3000K - 19273 LUMEN - C/W MATCHING SQUARE HOT DIP GALVANIZED POLE - FINISH TBD
L2 ☐	LED WALL SCONCE -NARROW WIDE OPTIC LITHONIA WDEG2 LED P0 30K 80CRI T1S MVOLT	7 W	120V	WALL MOUNTING HEIGHT AS SHOWN ON PLAN	- 3000K - 750 LUMEN - FINISH TBD
L3 ☐	LED WALL SCONCE -FORWARD THROW OPTIC LITHONIA WDEG2 LED P4 30K 80CRI VF MVOLT	10 W	120V	WALL MOUNTING HEIGHT AS SHOWN ON PLAN	- 3000K - 4096 LUMEN - FINISH TBD
L4 ☐	LED WALL SCONCE -WIDE OPTIC LITHONIA WDEG2 LED P4 30K 80CRI VW MVOLT	10 W	120V	WALL MOUNTING HEIGHT AS SHOWN ON PLAN	- 3000K - 4202 LUMEN - FINISH TBD



1 ELECTRICAL SITE PLAN
SCALE: 1" = 20'-0"

POLE LENGTH (m)	BASE BURIAL DEPTH D (m)	REINF. ROD LENGTH (m)
3.0	1.50	H + 1.35
5.6	2.15	H + 2.00
7.0	2.15	H + 2.00
7.5	2.15	H + 2.00
8.7	2.45	H + 2.30
9.0	2.45	H + 2.30
10.5	2.60	H + 2.45
12.0	2.75	H + 2.60
13.6	2.90	H + 2.75
15.1	3.05	H + 2.90

- NOTES:
- ALL DIMENSIONS ARE IN MILLIMETRES OR METRES
 - TOP OF FOUNDATION SHALL BE TROWELLED SMOOTH & LEVEL
 - CLASS OF CONCRETE SHALL BE 25mPa. CONCRETE SHALL BE VIBRATED.
 - MINIMUM OF TWO SLEEVES REQUIRED FOR EACH CONC. FOUNDATION UNLESS OTHERWISE SHOWN.
 - NOT USED.
 - CONTRACTOR TO VERIFY OPENING SIZE IN POLE BASE PLATE PRIOR TO SETTING CONDUIT SLEEVES
 - SUBJECT TO SOIL CONDITIONS, REFER TO SOIL REPORT.
 - FORM RELEASE AGENT HAS BEEN FACTORY-APPLIED TO INSIDE SURFACE OF "ArtFORM".



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Job No : 25016

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Project :
FIREARMS OUTLET CANADA

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Drawing Name :
**ELECTRICAL SITE PLAN
DETAILS**

Date	JAN 2025	Project No :	25016
Scale :	AS NOTED		
Drawn by :	JAC	Drawn No :	
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E6.1

ELECTRICAL SPECIFICATIONS

<p>16.1 GENERAL CONDITIONS</p> <p>PROVIDE LABOR, MATERIAL, EQUIPMENT, ETC. REQUIRED TO COMPLETE WORK SHOWN ON THE DRAWINGS OR HEREIN SPECIFIED. THE WORK WILL BE IN ACCORDANCE WITH LATEST RULES AND REGULATIONS OF AUTHORITIES HAVING LEGAL JURISDICTION OVER THE WORK. INCLUDE ANY SMALL ITEMS OF WORK NOT SPECIFICALLY FOR BUT REQUIRED TO COMPLETE THE INTENDED INSTALLATION.</p> <p>THE ENGINEER RESERVES THE RIGHT TO APPROVE THE QUALITY OF MATERIAL AND WORKMANSHIP, ALSO TO CALL FOR ANY TESTS WHICH ARE DEEMED NECESSARY DURING THE PROGRESS OF THE WORK AND A COMPLETE TEST OF EACH SYSTEM AT THE COMPLETION OF THE WORK. THE COST OF SUCH TESTS ARE NOT TO BE CONSIDERED AS EXTRAS.</p> <p>ITEMS OR SPECIFICATIONS RELATED TO THE SERVICES INDICATED ON THE DRAWINGS WILL APPLY TO THE PROJECT. THE BIDDING REQUIREMENTS AND GENERAL REQUIREMENTS (APPLICABLE SECTIONS) OF ARCHITECTURAL SPECIFICATIONS WILL ALSO GOVERN THE WORK OF THIS DIVISION.</p> <p>16.2 SCOPE OF WORK</p> <p>WORK TO BE DONE WILL INCLUDE FURNISHING OF LABOUR, MATERIALS AND EQUIPMENT REQUIRED FOR INSTALLATION, TESTING AND PUTTING INTO PROPER OPERATION FOR COMPLETE ELECTRICAL SYSTEMS AS SHOWN, AS SPECIFIED AND AS OTHERWISE REQUIRED.</p> <p>16.3 CODES, STANDARDS, PERMITS AND INSPECTION</p> <p>WORK TO MEET OR EXCEED THE MINIMUM STANDARDS OF THE FOLLOWING:</p> <p>CANADIAN ELECTRICAL CODE, CURRENT EDITION, PART 1, CSA STANDARDS AS ADOPTED AND AMENDED BY PROVINCIAL REGULATIONS AND PROVINCIAL BUILDING CODE.</p> <p>PROVINCIAL ELECTRICAL SAFETY CODE, CURRENT EDITION AND BULLETINS.</p> <p>LOCAL ELECTRICAL SUPPLY UTILITY CODES AND REGULATIONS.</p> <p>ELECTRICAL WORK WILL COMPLY WITH LANDLORD'S REQUIREMENTS AND BASE BUILDING STANDARD.</p> <p>THE ABOVE CODES AND ANY ADDITIONAL REQUIREMENTS OF THE LOCAL OR PROVINCIAL AUTHORITY WILL FORM AN INTEGRAL PART OF THIS SPECIFICATION AS IF WRITTEN IN FULL.</p> <p>BE RESPONSIBLE TO APPLY FOR AND OBTAIN PERMITS, INSPECTIONS, EQUIPMENT APPROVALS ETC. AS REQUIRED BY AUTHORITIES HAVING JURISDICTION OVER THIS WORK AND PAY FOR SAME. THESE COSTS WILL BE INCLUDED IN THE TENDER PRICE.</p> <p>DELIVER PERMITS TO THE OWNER'S REPRESENTATIVE AS SOON AS THEY BECOME AVAILABLE.</p> <p>ARRANGE FOR INSPECTION OF ELECTRICAL WORK BY THE ELECTRICAL SAFETY AUTHORITY INSPECTION DEPARTMENT, ON COMPLETION OF THE WORK, PRESENT, TO THE OWNER, THE FINAL UNCONDITIONAL CERTIFICATE OF APPROVAL.</p> <p>CONTRACTOR WILL MAINTAIN SUCH INSURANCE TO FULLY PROTECT BOTH THE OWNER AND HIMSELF FROM CLAIMS UNDER THE WORKMANS COMPENSATION ACT AS WELL AS INSURANCE AS NOTED WITHIN ARCHITECTURAL GENERAL CONDITIONS.</p> <p>16.5 CONTRACT DOCUMENT</p> <p>SPECIFICATIONS AND DRAWINGS ARE INTENDED TO COVER THE EQUIPMENT SPECIFIED. IT IS NOT THE INTENT TO DESCRIBE OR SHOW EVERY DETAIL, AND IT WILL BE AGREED THAT THE CONTRACTOR PROVIDE WORK AND MATERIAL REQUIRED FOR A COMPLETE AND WORKING SYSTEM ACCORDING TO THE REQUIREMENTS AND INTENT OF THE SPECIFICATIONS AND DRAWINGS.</p> <p>ANY DISCREPANCIES WILL BE SUBMITTED TO THE CONSULTANT FOR HIS INSTRUCTIONS.</p> <p>DO NOT SCALE OR MEASURE DRAWINGS, BUT OBTAIN INFORMATION REGARDING ACCURATE DIMENSIONS BY SITE REQUIREMENTS.</p> <p>16.6 EXAMINATION OF SITE</p> <p>VISIT THE SITE OF THE PROJECT AND FAMILIARIZE YOURSELF WITH CONDITIONS PERTAINING TO THE WORK PRIOR TO SUBMITTING TENDER. NO ALLOWANCE WILL BE MADE FOR OBVIOUS CONSIDERATIONS WHICH MAY BE OVERLOOKED, THIS INCLUDES THE EXISTING SERVICES ABOVE CEILING.</p> <p>REPORT ANY DEVIATION OR DISCREPANCY AND/OR CONFLICTS TO THE OWNER, OWNER TO COORDINATE WITH CONSULTANT.</p> <p>SCHEDULE AND PERFORM WORK TO MEET THE COMPLETION DATES AS SET OUT BY THE OWNER'S REPRESENTATIVE. COSTS OF ANY OVERTIME TO MEET THE SCHEDULE WILL BE DEEMED TO BE INCLUDED IN THE TENDER PRICE.</p> <p>16.7 SHOP DRAWINGS</p> <p>SUBMIT PDF FILES OF MANUFACTURER'S SHOP DRAWINGS TO THE CONSULTANT FOR REVIEW. SUBMITTED SHOP DRAWINGS MUST INDICATE DETAILS OF CONSTRUCTION, DIMENSIONS, SCALE, CAPACITIES, WEIGHTS AND ELECTRICAL PERFORMANCE CHARACTERISTICS OF EQUIPMENT OR MATERIALS, AS WELL AS PROJECT NAME.</p> <p>REVIEW SUBMITTALS PRIOR TO SUBMISSION TO CONSULTANT. THIS REVIEW REPRESENTS THAT NECESSARY REQUIREMENTS HAVE BEEN DETERMINED AND VERIFIED, OR WILL BE, AND THAT EACH SUBMITTAL HAS BEEN CHECKED AND CO-ORDINATED WITH REQUIREMENTS OF THE WORK AND CONTRACT DOCUMENTS.</p> <p>NO EQUIPMENT WILL BE DELIVERED TO THE JOB SITE UNLESS THE MANUFACTURER HAS RECEIVED A "REVIEWED" OR "REVIEWED AS NOTED" COPY OF THE PERTINENT SHOP DRAWING.</p> <p>REVIEW OF SHOP DRAWINGS BY THE CONSULTANT WILL NOT ALLEVIATE THE ELECTRICAL CONTRACTOR FROM HIS CONTRACTUAL RESPONSIBILITY FOR ITS CORRECTNESS AND COMPLIANCE WITH THE CONTRACT DOCUMENTS, DIMENSIONS AND DESIGN DETAILS.</p> <p>16.8 AS BUILT DRAWINGS</p> <p>AT THE COMPLETION OF THE WORK, ONE ELECTRONIC COPY OF LATEST DRAWINGS IN LATEST AUTOCAD FORMAT WILL BE PROVIDED BY THE CONSULTANT TO THE ELECTRICAL CONTRACTOR, FOR THE PURPOSE OF PREPARING RECORD DRAWINGS.</p> <p>RECORD, AS THE JOB PROGRESSES, APPROVED CHANGES AND DEVIATIONS MADE TO ANY WORK SHOWN ON THE ORIGINAL CONTRACT DRAWINGS WHETHER BY ADDENDA, REQUESTED CHANGES, JOB INSTRUCTIONS, AND CHANGES DUE TO JOB CONDITIONS.</p> <p>MAIN BRANCH CONDUIT RUNS, JUNCTIONS BOX LOCATIONS, ETC., MUST BE REFLECTED ON THE AS-BUILT DRAWINGS.</p> <p>CLEARLY INDICATE "AS-BUILT" IN THE TITLE BLOCK COLUMN OF THE DRAWINGS AS WELL AS THE ELECTRICAL CONTRACTOR'S NAME AND ADDRESS.</p> <p>SUBMIT A PRINT TO CONSULTANT FOR REVIEW. WHEN FOUND ACCEPTABLE BY THE CONSULTANT, SUBMIT FIVE (5) SETS OF PRINTS TOGETHER WITH THE CAD-DISK FOR PRESENTATION TO OWNER.</p> <p>16.9 OPERATION AND MAINTENANCE MANUAL</p> <p>PROVIDE THREE (3) SETS OF OPERATION AND MAINTENANCE MANUALS SUBMITTED IN HARD COVER 3-RING BINDERS, INCLUDE THE FOLLOWING INFORMATION IN THE OPERATIONS AND MAINTENANCE MANUALS:</p>	<p>NAME AND ADDRESS OF LOCAL SUPPLIERS FOR THE ITEMS INCLUDED TECHNICAL DATA AND DESCRIPTION OF ITEMS AND PARTS LISTED THE CONSULTANT'S REVIEWED SHOP DRAWINGS. CERTIFICATE(S) OF ACCEPTANCE FROM THE AUTHORITIES INSPECTION DEPARTMENT. MANUFACTURERS WRITTEN GUARANTEE</p> <p>PERFORM TEST ON EACH SYSTEM TO THE SATISFACTION OF THE CONSULTANT AND SUBMIT TEST RESULTS FOR APPROVAL PRIOR TO THE FINAL ACCEPTANCE OF THE WORK.</p> <p>PANELS WILL BE BALANCED WITHIN 5% ACROSS PHASES GROUNDING WILL BE AS REQUIRED BY ELECTRICAL SAFETY AUTHORITY CODE AND LOCAL UTILITY REQUIREMENTS.</p> <p>16.11 PRECAUTIONS DURING CONSTRUCTION</p> <p>a) PROVIDE SCHEDULE AND OBTAIN APPROVAL FROM BASE BUILDING AND CLIENT PRIOR TO COMMENCEMENT OF WORK. ALSO OBTAIN INSTRUCTION FROM OWNER REGARDING WHAT TYPE OF WORK CAN BE DONE WITHIN NORMAL HOURS AND WHAT TYPE OF WORK HAVE TO BE DONE AFTER HOURS. TAKE ABOVE MENTIONED RESTRICTIONS INTO CONSIDERATION WHEN SUBMITTING BID. NO ADDITIONAL COST WILL BE OWED TO COMPENSATE COST ASSOCIATED WITH THESE FACTORS.</p> <p>b) CARRY OUT WORK WITH A MINIMUM OF NOISE, DUST AND DISTURBANCE. PROVIDE DAILY CLEAN UP AND PROPER DISPOSAL OF DEBRIS GENERATED BY DAILY OPERATIONS, ON COMPLETION OF THE WORK, TOOLS, SURPLUS MATERIALS AND WASTE MATERIAL WILL BE REMOVED AND THE PREMISES LEFT IN A CLEAN AND SAFE CONDITION.</p> <p>c) BE RESPONSIBLE AND PAY FOR ANY DAMAGE TO THE BASE BUILDING INCURRED BY WORK OF THIS DIVISION, OR REPAIR TO THE SATISFACTION OF OWNER. OWNER TO COORDINATE WITH LANDLORD.</p> <p>d) ENSURE EXISTING EQUIPMENT WHICH ARE TO BE REUSED IS THOROUGHLY INSPECTED AND REFURBISHED TO ENSURE PROPER OPERATION AND MEETS THE LOCAL ELECTRICAL SAFETY AUTHORITY'S REQUIREMENTS, CONDUIT OR OUTLET BOXES WHICH ARE CORRODED OR DAMAGED WILL BE REPLACED.</p> <p>e) CLEAN SURFACES, REFLECTOR AND LAMPS OF NEW AND EXISTING LUMINAIRE, CLEAN PANEL BOARD, DEVICES, OUTLETS AT THE END OF CONSTRUCTION.</p> <p>f) WHEN DELETING AND/OR MAKING SAFE EXISTING ELECTRICAL WORK, ENSURE THAT IT INCLUDES REMOVAL OF DISCONNECTED WIRING BACK TO SOURCE.</p> <p>g) DISCONNECT AND REMOVE EXISTING LUMINAIRES, DEVICES WHICH ARE NOT TO BE REUSED. REMOVE REDUNDANT COMMUNICATIONS CABLE IN THE CONSTRUCTION AREA.</p> <p>h) ELECTRICAL EQUIPMENT AND DEVICES WHICH ARE NO LONGER REQUIRED WILL BE REMOVED AND DISPOSED OF, OFF SITE.</p> <p>16.12 IDENTIFICATION</p> <p>a) PROVIDE LAMACOD IDENTIFICATION NAMEPLATES. THESE WILL BE WHITE WITH BLACK ENGRAVED LETTERS AND WILL BE INSTALLED WITH SCREWS ON EQUIPMENT, NAMEPLATES WILL BE 3MM (1/8") THICK WITH BEVELLED EDGES.</p> <p>b) INFORMATION REQUIRED TO BE SHOWN ON THE NAMEPLATE FOR VARIOUS EQUIPMENT ARE DESCRIBED BELOW:</p> <ul style="list-style-type: none">- DISCONNECTS, STARTERS AND CONTACTORS: INDICATE EQUIPMENT BEING CONTROLLED AND VOLTAGE, LOCATION, VOLTAGE AND RATING OF UPSTREAM BREAKER OR DISCONNECT SWITCH.- TERMINAL CABINETS AND PULL BOXES: INDICATE SYSTEM AND VOLTAGE, TRANSFORMERS, INDICATE CAPACITY, PRIMARY AND SECONDARY VOLTAGES, UPSTREAM AND DOWNSTREAM DEVICE OR EQUIPMENT LOCATIONS & DESIGNATION. <p>c) EACH NEW PANEL WILL HAVE TYPEWRITTEN DIRECTORY SHOWING LOADS CONNECTED TO EACH CIRCUIT, DIRECTORIES WILL BE MOUNTED ON THE INSIDE OF THE PANEL DOOR IN A TRANSPARENT PLASTIC COVER. FOR EXISTING PANELS BEING MODIFIED, UPDATE THE EXISTING DIRECTORIES TO SUIT NEW WORK. PROVIDE NEW TYPE WRITTEN SCHEDULE.</p> <p>16.13 RESPONSIBILITY</p> <p>BE RESPONSIBLE FOR ELECTRICAL WORK UNTIL COMPLETION AND FINAL ACCEPTANCE, BY OWNER, FOR REPLACING ANY ITEM THAT MAY BE DEFECTIVE, DAMAGED, LOST OR STOLEN, WITHOUT ADDITIONAL COST TO THE OWNER OR DELAY TO THE COMPLETION OF THE PROJECT.</p> <p>16.14 WARRANTY</p> <p>a) WARRANT WORK AND APPARATUS INSTALLED, UNDER THIS CONTRACT, AGAINST DEFECTS IN MATERIAL OR WORKMANSHIP FOR A PERIOD OF ONE YEAR AFTER FINAL ACCEPTANCE OF SAME BY THE OWNER.</p> <p>b) THESE GUARANTEE WILL IN NO WAY SUPPLANT ANY OTHER GUARANTEES OF A LONGER PERIOD, BUT WILL BE BINDING ON OTHER WORK.</p> <p>16.15 EQUIPMENT AND MATERIAL</p> <p>a) EQUIPMENT AND MATERIAL, UNLESS SPECIFICALLY NOTED OTHERWISE, WILL BE NEW AND FREE OF BLEMISH OR DEFECT. MATERIAL AND EQUIPMENT WILL BE OF THE TYPE SUBJECT TO FACTORY MUTUAL, UNDERWRITERS' LABORATORIES OF CANADA AND/OR CANADIAN STANDARDS ASSOCIATION INSPECTION AND APPROVAL AND WILL BEAR ULC OR CSA LABELS.</p> <p>16.16 CUTTING AND PATCHING</p> <p>a) THE CONTRACTOR WILL EMPLOY THE PARTICULAR TRADES TO DO REQUIRED CUTTING AND PATCHING AND REPAIRING OF SURFACES FOR HIS WORK.</p> <p>b) SUPPORTING MEMBERS OF ANY FLOOR, W OR THE BUILDING STRUCTURE WILL BE CUT ONLY IN SUCH A LOCATION AND MANNER AS DIRECTED BY THE CONSULTANT/OWNER.</p> <p>c) HOLES AND SURFACES WILL BE REPAIRED WITH THE TYPE OF MATERIAL REMOVED BY THE TRADESMEN EXPERT IN THE TYPE OF REPAIR REQUIRED.</p> <p>d) PROVIDE FIRE BARRIERS AROUND COMPONENTS IN HOLES THAT PENETRATE FIRE SEPARATIONS, THE FIRE BARRIER MEDIUM PROVIDED WILL MAKE THE FIRE SEPARATION EQUAL TO OR BETTER THAN THE ONE WHICH WAS CUT AWAY. MATERIALS WILL BE CSA APPROVED AND UL LISTED.</p> <p>16.17 FLOOR CUTTING AND CORE DRILLING</p> <p>a) WHERE CORE DRILLING OR FLOOR CUTTING IS REQUIRED, THIS CONTRACTOR WILL NOTIFY OWNER OF THE LOCATION AND OBTAIN ITS APPROVAL PRIOR TO COMMENCING, X-RAY FLOOR OR W AS REQUIRED BY OWNER, OWNER TO COORDINATE WITH LANDLORD.</p> <p>b) INCLUDE ALLOWANCE IN THE BID PRICE SHOULD CORE DRILLS ARE REQUIRED TO BE CARRIED OUT AFTER NORMAL HOURS.</p> <p>c) ANY DAMAGES AS A RESULT OF CORE DRILLING WILL BE REPAIRED IMMEDIATELY AT NO COST TO OWNER.</p> <p>16.18 INTERRUPTION OF SERVICE</p> <p>a) CO-ORDINATE REQUIRED POWER SHUTDOWNS WITH OWNER. PROVIDE TWO-WEEKS NOTICE TO OWNER AND OBTAIN THEIR APPROVAL BEFORE PROCEEDING WITH THE WORK THAT REQUIRES SHUTDOWN. OWNER TO COORDINATE WITH LANDLORD.</p> <p>b) THE BID SUBMITTED WILL INCLUDE ALLOWANCES FOR TIME SPENT ON COORDINATION OF INTERRUPTION.</p> <p>c) PROVIDE ACOUSTICALLY INSULATED OUTLET BOXES.</p> <p>d) WHERE OUTLETS ARE MOUNTED ON OPPOSITE SIDES OF THE SAME PARTITION, STAGGER THEM TO RETAIN ACOUSTIC ATTENUATION OF PARTITION.</p>	<p>16.19 PRICING FOR CHANGES</p> <p>a) PROVIDE DETAILED BREAKDOWN FOR MATERIAL, LABOUR REQUIRED. CHANGES SHOULD BE CALCULATED BASED ON THE LATEST ISSUE OF NATIONAL ELECTRICAL CONTRACTORS ASSOCIATION (NECA) MANUAL, COLUMN ONE FOR THE DURATIONS OF THIS CONTRACT.</p> <p>b) THE HOURLY LABOUR RATE WILL INCLUDE CHARGES FOR SUPERVISION, VARIABLE LABOUR FACTORS, HAND TOOLS, STORAGE, RENTALS, ADDITIONAL BONDING, PARKING, CLEAN-UP, AS-BUILT DRAWINGS, FREIGHT AND DELIVERY, BUT EXCLUSIVE OF OVERHEAD AND PROFIT.</p> <p>16.20 SYSTEM START-UP</p> <p>a) INSTRUCT OWNER AND OPERATING PERSONNEL IN THE OPERATION, CARE AND MAINTENANCE OF SYSTEMS, SYSTEM EQUIPMENT AND COMPONENTS.</p> <p>b) ARRANGE AND PAY FOR SERVICES OF MANUFACTURER'S FACTORY SERVICE ENGINEER TO SUPERVISE START-UP OF INSTALLATION, CHECK, ADJUST, BALANCE AND CALIBRATE COMPONENTS AND INSTRUCT OPERATING PERSONNEL.</p> <p>c) PROVIDE THESE SERVICES FOR SUCH PERIOD, AND FOR AS MANY VISITS AS NECESSARY TO PUT EQUIPMENT IN OPERATION, AND TO ENSURE THAT OWNER ARE CONVERSANT WITH ASPECTS OF ITS CARE AND OPERATION.</p> <p>16.21 GROUNDING</p> <p>PROVIDE GROUNDING FOR EQUIPMENT TO THE LATEST VERSION OF ELECTRICAL SAFETY CODE AND INSPECTION AUTHORITIES, PROVIDE SEPARATE GREEN INSULATED GROUND CONDUCTOR IN EVERY CONDUIT TO EQUIPMENT/DEVICES. CONDUIT WILL NOT BE USED AS A BONDING SYSTEM.</p> <p>16.22 TEMPORARY SERVICES</p> <p>a) PROVIDE TEMPORARY ELECTRICAL SERVICES, AS REQUIRED, WILL BE PART OF THIS WORK.</p> <p>b) PROVIDE TEMPORARY GENERAL LIGHTING THROUGHOUT CONSTRUCTION SITE. REUSE EXISTING LUMINAIRES AT SUITABLE CENTRES TO CONFORM TO CONSTRUCTION STANDARDS AND AUTHORITIES HAVING JURISDICTION.</p> <p>c) PROVIDE TEMPORARY GENERAL POWER SUPPLIES WITH RECEPTACLES FOR TRADES AS DIRECTED BY THE GENERAL CONTRACTOR.</p> <p>d) MAINTAIN THE TEMPORARY FACILITIES IN GOOD REPAIR AND SAFE WORKING ORDER THROUGHOUT THE DURATION OF THE PROJECT.</p> <p>e) AT THE END OF THE PROJECT, REMOVE THE ABOVE NOTED TEMPORARY SYSTEM.</p> <p>16.23 SUPPORTS AND BASES AND HANGERS</p> <p>a) HANGERS FOR ELECTRICAL CONDUITS WILL BE GALVANIZED AFTER FABRICATION. DO NOT USE PERFORATED STRAPPINGS (GRABBER BARS) TO HANG CONDUITS.</p> <p>b) PROVIDE INDEPENDENT SUPPORTS FOR NEW EQUIPMENT, DEVICES LIGHTING FIXTURES AND CONDUITS. DO NOT USE SUPPORTS OR EQUIPMENT INSTALLED FOR OTHER TRADES FOR CONDUIT OR CABLE SUPPORT EXCEPT WITH PERMISSION OF OTHER TRADE AND APPROVAL OF CONSULTANT.</p> <p>16.24 CONDUIT AND FITTINGS</p> <p>a) CONDUIT SIZES WILL BE AS INDICATED ON DRAWINGS AND WILL NOT BE REDUCED WITHOUT AUTHORIZATION, CONDUITS IN FINISHED AREAS WILL BE CONCEALED. ALL SURFACE CONDUITS.</p> <p>b) UNLESS OTHERWISE NOTED, CONDUITS FOR PANEL FEEDERS AND BRANCH CIRCUIT WIRING WILL BE THIN W (EMT), CONDUIT EXPOSED TO WEATHER WILL BE RIGID GALVANIZED, USE RIGID PVC CONDUIT WHEN EMBEDDED IN CONCRETE, USE APPROVED CONCRETE TIGHT FITTINGS. USE BX CABLES ONLY IN PARTITION WALLS AND IN CEILING SPACE FOR FINAL DROPS TO LIGHTING FIXTURES AND W OUTLETS, BX CABLE IN CEILING SPACE WILL NOT EXCEED 10' (3M).</p> <p>c) CONDUITS WILL BE INSTALLED AT A MINIMUM OF 6" (152mm) FROM UNINSULATED HEATING PIPES AND CONDUITS CARRYING DATA CABLES.</p> <p>d) CLEAN INTERIOR OF CONDUITS TO REMOVE DEBRIS AND WATER AND REMOVE ANY BURRS PRIOR TO PULLING WIRES.</p> <p>e) PROVIDE SEPARATE INSULATED GROUND CONDUCTOR IN CONDUITS, REGARDLESS OF TYPE.</p> <p>f) FIRESTOPPING IS REQUIRED WHERE HOLES ARE DRILLED THROUGH FLOORS OR WALLS. HOLES WILL BE PACKED AROUND CONDUIT (OR RACEWAY) WITH AN APPROVED CAULKING COMPOUND, ("CIRA FIBRE 2300" OR "FLAMESEAL" PUTTY) OR EQUIVALENT.</p> <p>g) PROVIDE FLEXIBLE METAL CONDUIT FOR CONNECTIONS TO MOTORS, UPS UNITS AND TRANSFORMERS.</p> <p>h) MINIMUM CONDUIT SIZE WILL BE 1/2" (13mm) UNLESS NOTED OTHERWISE.</p> <p>i) CONDUITS, ARMORED CABLES AND OTHER RACEWAYS WILL BE SUPPORTED INDEPENDENTLY OF ANY SUSPENDED CEILING.</p> <p>j) DO NOT USE ALUMINUM CONDUIT.</p> <p>k) PROVIDE LIQUID-TIGHT FLEXIBLE METAL CONDUIT FOR FINAL CONNECTION TO PUMPS.</p> <p>16.25 PULL & JUNCTION BOXES</p> <p>a) BOXES WILL BE CODE GAUGE AND SIZED TO MEET ELECTRICAL CODE REQUIREMENTS. SHEET STEEL BOXES FOR CONCEALED WORK AND CAST BOXES FOR EXPOSED WORK, "THROUGH" AND "UTILITY" TYPE BOXES WILL NOT BE USED.</p> <p>b) PROVIDE BARRIERS IN BOXES WHERE DIFFERENT VOLTAGES ARE USED.</p> <p>c) PROVIDE PULL BOXES ON CONDUIT RUNS AT 50ft (15.25m) INTERVALS.</p> <p>d) BOXES WILL BE SUPPORTED INDEPENDENTLY OF CONDUIT.</p> <p>e) IDENTIFY ELECTRICAL BOXES OF DIFFERENT SYSTEMS WITH A DIFFERENT COLOUR, THIS WILL BE ACHIEVED WITH SPRAY PAINT CANS. COLOURS WILL MATCH BASE BUILDING STANDARD.</p> <p>16.26 INSTALLATION OF OUTLETS</p> <p>a) THE DRAWINGS SHOW APPROXIMATE LOCATION OF OUTLETS ONLY. THE EXACT LOCATION WILL BE COORDINATED ON SITE WITH OTHER TRADES, OUTLETS LOCATED INACCUATELY WILL BE READJUSTED OR RELOCATED AT THE CONTRACTORS EXPENSE PROVIDED THAT THE DISTANCE DOES NOT EXCEED 3m (10'-0") UNLESS OTHERWISE NOTED, RECEPTACLES WILL BE MOUNTED AT 12" (300mm) AFF.</p> <p>b) PROVIDE ACOUSTICALLY INSULATED OUTLET BOXES.</p> <p>c) WHERE OUTLETS ARE MOUNTED ON OPPOSITE SIDES OF THE SAME PARTITION, STAGGER THEM TO RETAIN ACOUSTIC ATTENUATION OF PARTITION.</p> <p>16.27 INSTALLATION OF PLYWOOD BACKBOARDS</p> <p>PROVIDE 19mm (3/4") THICK, FIRE RETARDANT PLYWOOD BACKBOARDS AS REQUIRED FOR ALL WALL MOUNTED ELECTRICAL EQUIPMENT/DEVICE OF THIS DIVISION.</p> <p>16.28 WIRE AND CABLE</p> <p>a) UNLESS OTHERWISE NOTED, WIRES WILL BE COPPER RW90 RATING AS REQUIRED ON SITE AND AS DICTATED BY ELECTRICAL SAFETY AUTHORITY CODE. ALUMINUM WIRE WILL NOT BE USED.</p> <p>b) THE MINIMUM PERMISSIBLE SIZE FOR BRANCH CIRCUIT WIRING WILL BE #12 AWG.</p> <p>c) WIRE #10 AWG AND SMALLER WILL BE SOLID COPPER, #8 AWG AND LARGER WILL BE COPPER STRANDED.</p> <p>d) WIRING WILL BE COLOUR CODED AND WILL BE IDENTIFIED SHOWING SIZE, VOLTAGE RATING AND INSULATION TYPE.</p> <p>e) BRANCH WIRING WILL BE NO. 12 AWG UP TO 70 FT. AND NO.10 AWG FROM 70 FT. TO 120 FT. FOR A LONGER DISTANCE, THE VOLTAGE DROP WILL BE CALCULATED AT 3%.</p> <p>f) CABLES INSTALLED FREE AIR INSIDE THE CEILING SPACE AS RETURN AIR PLENUM WILL BE ITS PLENUM RATED. ELECTRICAL CONTRACTOR WILL COORDINATE WITH GENERAL CONTRACTOR AND PROVIDE INSTRUCTION TO OTHER WIRING CONTRACTOR AT THE BEGINNING OF CONSTRUCTION AND MONITOR WIRING INSTALLATION BY OTHERS TO ENSURE PROPER TYPES OF CABLES ARE INSTALLED.</p> <p>g) MINIMUM WIRE SIZE FROM BATTERY UNIT TO REMOTE LIGHT HEADS WILL BE NO.10 AWG. MAXIMUM VOLTAGE DROP WILL BE 5%.</p> <p>16.29 WIRING DEVICES</p> <p>a) RECEPTACLES TYPES ARE SHOWN ON FLOOR PLAN OR SINGLE LINE DIAGRAM BESIDE RECEPTACLE.</p> <p>b) ACCEPTABLE MANUFACTURER OF RECEPTACLES ARE HUBBELL, LEVITON, BRYANT OR ARROW HART.</p> <p>c) RECEPTACLES WILL BE SPECIFICATION GRADE, BACK AND SIDE WIRED EQUAL TO HUBBELL BR15, COLOR TO BE CONFIRMED WITH DESIGNER OR ARCHITECT.</p> <p>d) RECEPTACLES AND OUTLETS WILL BE IDENTIFIED WITH 9mm LAMINATED TAPE WITH SINGLE LINE TEXT PRINTED BY TAPE LABELLER INDICATING PANEL DESIGNATION AND CIRCUIT NUMBER(S).</p> <p>e) COVER PLATES:</p> <ul style="list-style-type: none">• RECEPTACLE AND COVER PLATE TO BE WHITE UNLESS NOTED OTHERWISE.• PROVIDE SHEET METAL COVER PLATES FOR WIRING DEVICES MOUNTED IN SURFACE MOUNTED FS OR FD BOXES, OR UTILITY BOXES.• PROVIDE WEATHERPROOF IN USE TYPE COVER PLATES, COMPLETE WITH GASKETS FOR WEATHERPROOF DUPLEX RECEPTACLES. <p>f) THE OWNER HAS THE RIGHT TO RELOCATE OUTLETS UP TO TEN FEET PRIOR TO INSTALLATION WITHOUT EXTRA CHARGE.</p> <p>g) KITCHEN EQUIPMENT CONNECTIONS INCLUDING RECEPTACLES MOUNTING HEIGHT WILL BE COORDINATED ON SITE WITH THE LATEST KITCHEN EQUIPMENT INFORMATION TO BE PROVIDED BY EQUIPMENT SUPPLIER.</p> <p>16.30 DISTRIBUTION EQUIPMENT</p> <p>a) RATING AND TYPE OF NEW PANELBOARDS, DISCONNECT SWITCHES, METERS, TRANSFORMERS WILL BE OF SAME STANDARD AS EXISTING BASE BUILDING EQUIPMENT. ACCEPTABLE MANUFACTURES ARE LISTED AS FOLLOWS IF UNABLE TO MATCH BASE BUILDING EQUIPMENT, EQUIPMENT WILL HAVE COPPER BUS OR WINDING AND MUST BE COMMERCIAL GRADE PRODUCT.</p> <ul style="list-style-type: none">- SCHNEIDER- CUTLER-HAMMER- SIEMENS <p>b) MODULE CASE CIRCUIT BREAKERS WILL BE BOLT-ON TYPE</p> <p>c) DISCONNECT SWITCHES WILL BE HEAVY DUTY, QUICK MAKE, QUICK BREAK, VOIDABLE COVER INTERLOCK, LOCKABLE IN "OFF" POSITION WITH NEUTRAL BAR WHERE REQUIRED.</p> <p>d) PANELBOARDS WILL C/W FACTORY INSTALLED BOLT-ON CIRCUIT BREAKERS RATED AS SHOWN ON THE DRAWINGS. MULTIPOLE BREAKERS WILL HAVE COMMON TRIP. BREAKERS WILL BE SUITABLE FOR SWITCHING DUTY. RESIDENTIAL LOAD CENTERS ARE NOT ACCEPTABLE. PROVIDE SPRINKLER HOOD FOR SURFACE MOUNTED PANELS IN A SPRINKLERED SPACE.</p> <p>e) MINIMUM STANDARD FOR DRY TYPE TRANSFORMERS.</p> <ul style="list-style-type: none">• TYPE: ANN, K FACTOR OF 13• INSULATION: CLASS 220 C, 150°C TEMPERATURE RISE.• BASIC IMPULSE LEVEL (BIL): 600 V CLASS - 10kV• AVERAGE SOUND LEVEL: AS PER TABLE 9 OF CSA STANDARD• WINDING: COOPER WINDING, ELECTROSTATICALLY SHIELDED• SPRINKLER PROOF TYPE IN SPRINKLERED BUILDING• BY ONE OF FOLLOWING MANUFACTURER: DELTA, SCHNEIDER, ACME, HAMMOND, POLYGON/MAGNETEK. <p>16.31 COMMUNICATION RACEWAY SYSTEMS</p> <p>1. SUPPLY AND INSTALL THE REQUIRED EMPTY RACEWAY SYSTEM C/W CONDUITS, PULLBOXES, PANELS, OUTLET BOXES, COVER PLATES, SUITABLE FOR THE INSTALLATION OF IT AND COMMUNICATIONS CABLES AND ASSOCIATED EQUIPMENT.</p> <p>2. RACEWAYS SHALL BE RIGID, GALVANIZED STEEL CONDUIT WHERE EXPOSED TO MECHANICAL INJURY. IN ALL OTHER LOCATIONS, EMT MAY BE USED. MINIMUM CONDUIT SIZE TO BE 19mm. WORK TO BE DONE TO CSA T527 AND CSA T530.</p> <p>3. ALL DATA OUTLETS SHALL BE WIRED WITH MINIMUM CAT6 CABLING AND TERMINATED AT BOTH ENDS. USE A BIX BLOCK IN TELEPHONE ROOMS AND RJ45 OUTLETS IN DATA BOXES. CERTIFY AND PROVIDE RECORD OF CERTIFICATION FOR ALL CABLES AT END OF INSTALLATION.</p> <p>4. PROVIDE A 110V POWER OUTLET ADJACENT TO THE IT EQUIPMENT LOCATIONS FOR UTILITY COMPANY'S STEP DOWN TRANSFORMER.</p> <p>5. UNLESS OTHERWISE SHOWN, STEEL PULLBOXES SHALL BE INSTALLED EVERY 30m OR LESS OF STRAIGHT CONDUIT RUN, EVERY 25m OR LESS OF STRAIGHT CONDUIT RUN AND ONE 90 DEGREE BEND OR EQUIVALENT; EVERY TWO 90 DEGREE BENDS OR EQUIVALENT.</p> <p>6. A #6 GROUND WIRE SHALL BE RUN FROM THE TELEPHONE SERVICE PANEL TO THE SERVICE GROUND TO PROVIDE A GROUND FOR THE TELEPHONE SYSTEM.</p> <p>7. REFER TO COMMUNICATIONS SPECIFICATIONS AND COMMUNICATIONS CABLING AND TERMINATION CHART FOR ADDITIONAL REQUIREMENTS.</p>	<p>16.34 LIGHTING FIXTURES AND LAMPS</p> <p>a) PROVIDE LUMINAIRES AND LAMPS AS INDICATED ON LUMINAIRE SCHEDULE AND/OR SPECIFIED HEREIN. LUMINAIRES ARE TO BE COMPLETE WITH NECESSARY FRAMES, HANGERS, LAMPS, LOUVERS, DIFFUSERS, CANOPIES, SUPPORTS ETC. ACCEPTABLE MANUFACTURERS OF FLUORESCENT LUMINAIRES ARE AS INDICATED, OR APPROVED EQUAL.</p> <p>b) BALLASTS WILL BE LONG LIFE, FULL LIGHT OUTPUT, ENERGY SAVING TYPE, SOUND RATED "A", RAPID START ELECTRONIC TYPE AS SPECIFIED, PROVIDE PROGRAM START BALLAST FOR LAMPS CONTROLLED BY OCCUPANCY SENSORS.</p> <p>c) UNLESS OTHERWISE NOTED ON THE DRAWINGS, FLUORESCENT LAMPS WILL BE RAPID START "T8", 3500 K, 20,000 HOURS RATED LIFE BY GE, PHILIPS OR OSRAM.</p> <p>d) WHERE LUMINAIRES ARE INSTALLED IN LAY-IN TILE CEILINGS, PROVIDE SAFETY SUPPORT CHAIN ON LUMINAIRES. SEPARATE ON THE CEILING FOR SUPPORT.</p> <p>e) LUMINAIRES WILL BE SUPPORTED FROM STRUCTURAL MEMBERS INDEPENDENTLY.</p> <p>f) EXISTING LUMINAIRES INDICATED TO BE REUSED WILL BE TAKEN DOWN, CLEANED, RELAMPED AND PROVIDED WITH NEW LENSES AND BALLAST AS REQUIRED.</p> <p>16.35 CLOSE OUT DOCUMENTATION</p> <p>THE FOLLOWING INFORMATION MUST BE PROVIDED TO THE ENGINEER PRIOR TO FINAL SITE INSPECTION AND ISSUANCE OF THE ENGINEERS FINAL SIGN OFF LETTER TO OBTAIN OCCUPANCY.</p> <ol style="list-style-type: none">1. FIRE ALARM VERIFICATION REPORT.2. LETTER OF ACCEPTANCE FROM THE ELECTRICAL SAFETY AUTHORITY.3. EMERGENCY LIGHTING LETTER ATTESTING TO THE FACT THAT THE SYSTEM IS INSTALLED AS PER THE DESIGN DRAWINGS AND OPERATES TO MEET LOCAL BUILDING CODES REQUIREMENTS.4. 665616 LETTER FROM 665616 ENGINEER <p>THE FOLLOWING INFORMATION MUST BE PROVIDED TO THE OWNER UPON PROJECT COMPLETION:</p> <ol style="list-style-type: none">1. LETTERS OF WARRANTY FROM THE ELECTRICAL CONTRACTORS.2. AS BUILT DRAWINGS AND MANUALS.
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3	2025-06-12	ISSUED FOR TENDER		JG
2	2025-05-28	ISSUED FOR PERMIT/TENDER REVIEW		JG
1	2025-05-02	ISSUED FOR REVIEW		JAC
No.	Date:	Issued/Revision:		By



Project :

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Drawing Name :

ELECTRICAL
SPECIFICATIONS

Date	JAN 2025	Project No :	25016
Scale :	AS NOTED		
Drawn by :	JAC	Drawing No :	E7.0
Checked by :	JG		