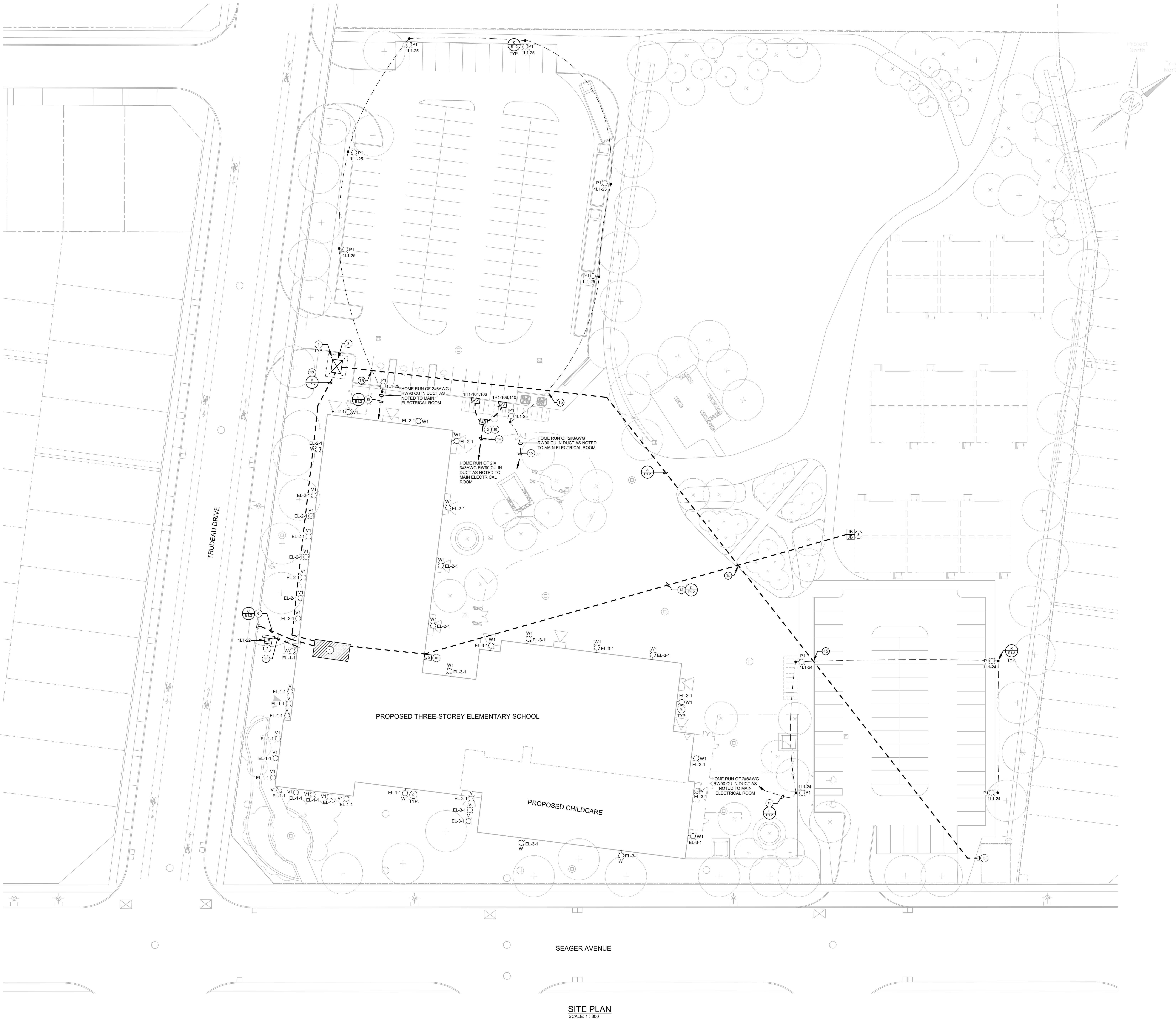




SITE PLAN
SCALE: 1 : 300

ELECTRICAL SERVICE SCOPE OF WORK - UTILITY

- MILTON HYDRO (UTILITY) WILL PROVIDE THE FOLLOWING WORK. COST WILL BE PART OF THE ALLOWANCE FOR UTILITY WORK AS LISTED IN THE SPECIFICATIONS.
- H1 SUPPLY AND INSTALLATION OF PRIMARY FUSING AND PRIMARY CONDUCTORS.
 - H2 SUPPLY AND INSTALLATION OF PAD MOUNT TRANSFORMER.
 - H3 CONNECTION OF PRIMARY AND SECONDARY CONDUCTORS AT PAD MOUNT TRANSFORMER.
 - H4 SUPPLY AND INSTALLATION OF METERING INSTRUMENTATION.
 - H5 CONNECTION OF PRIMARY CONDUCTORS AT POINT OF SUPPLY.
 - H6 SUPPLY OF REMOTE METERING ANTENNA C/W MOUNTING BRACKET.
 - H7 SUPPLY AND TERMINATION OF COAX CABLE FOR CONNECTION FROM METER CABINET TO REMOTE METERING ANTENNA.

ELECTRICAL SERVICE SCOPE OF WORK - CONTRACTOR

- THE ELECTRICAL CONTRACTOR FOR THE BUILDING OWNER (CLIENT/OWNER) SHALL BE RESPONSIBLE FOR THE FOLLOWING:
- C1 SUPPLY AND INSTALLATION OF PRIMARY DUCTBANK FROM TRANSFORMER TO PROPERTY LINE.
 - C2 SUPPLY AND INSTALLATION OF SECONDARY DUCTBANK FROM TRANSFORMER TO MAIN SWITCHBOARD.
 - C3 SUPPLY AND INSTALLATION OF PAD MOUNT TRANSFORMER CONCRETE BASE AND GROUNDING.
 - C4 SUPPLY AND INSTALLATION OF SECONDARY CABLES AT MAIN SWITCHBOARD AND TRANSFORMER LUGS. PROVIDE 10'0" (3000MM) SLACK CONDUCTORS AT TRANSFORMER BASE WITH BELL ENDS.
 - C5 SUPPLY AND INSTALLATION OF METER CABINET - VOICE LINE AND OUTLET PER PLANS AND TO SUIT UTILITY REQUIREMENTS.
 - C6 INSTALLATION OF SERVICE GROUND AT SWITCHBOARD PER ELECTRICAL CODE AND AS SHOWN. PROVIDE COORDINATION STUDY PER SPECIFICATIONS.
 - C7 ALL WORK SHALL MEET UTILITY REQUIREMENTS & INSPECTION. ELECTRICAL CONTRACTOR TO CO-ORDINATE WITH UTILITY PRIOR TO PROCEEDING.
 - C8 SUPPLY AND INSTALLATION OF PROTECTIVE BOLLARDS AND GROUNDING AS PER DETAILS.
 - C9 ALL UNDERGROUND WORK WITHIN RIGHT OF WAY TO BE COMPLETED BY MILTON HYDRO APPROVED CONTRACTOR AT THIS CONTRACTORS EXPENSE. THIS CONTRACTOR TO COORDINATE WITH MILTON HYDRO PRIOR TO EXCAVATION. MILTON HYDRO APPROVED CONTACTORS ARE AS FOLLOWS:
-AECOM UTILITIES - BRAN RIVERS - 416-423-4157
-JANITEX - JASON KOTTELMER - 416-640-3000
-BETHLEHEM TRENCHING - ROB HOFSINK - 905-319-3003
-CON-ELCO - FRANK ROTINO - 416-781-7150
-JOLE UTILITY CONTRACTORS - MIRE RADMAN - 905-726-8404
-ROBERT B. SOMERVILLE - STEVE FIELD - 905-633-1100
-TRANS POWER - KARI KARU - 905-660-6572
-TRENCH-CON LTD. - MICHAEL PIETRANTON - 905-961-0330
-NETWORK UNDERGROUND UTILITIES INC. - BLAIR BRADLEY - 519-220-8460

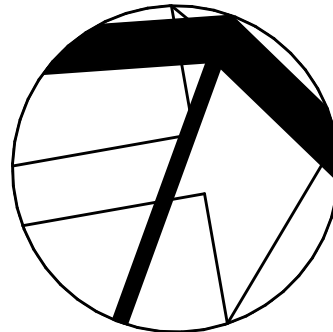
SITE NOTES - GENERAL

- 1. ALL DUCTBANK AND TRANSFORMER PAD INSTALLATIONS MUST CONFORM TO MILTON HYDRO STANDARDS. CONFIRM ALL REQUIREMENTS PRIOR TO INSTALLATION.
- 2. ALL UNDERGROUND ELECTRICAL DUCTS AND SERVICES SHALL BE COORDINATED WITH CIVIL, SITE LANDSCAPING AND OTHER SITE SERVICES.
- 3. CO-ORDINATE ALL DUCT CROSSINGS. PROVIDE ADDITIONAL EXCAVATION DEPTH TO SUIT.

SITE NOTES - SPECIFIC

- 1. INDICATES APPROXIMATE LOCATION OF MAIN ELECTRICAL ROOM. REFER TO FLOOR PLANS FOR EXACT LOCATION.
- 2. PROVIDE 2-33mm C UNDERGROUND PVC CONDUIT FROM MAIN ELECTRICAL ROOM TO WEATHERPROOF GRADE LEVEL JUNCTION BOX.
- 3. INDICATES APPROXIMATE LOCATION OF PAD MOUNT TRANSFORMER. REFER TO ELECTRICAL DETAILS FOR FURTHER INFORMATION.
- 4. INDICATES PROTECTIVE BOLLARDS.
- 5. INDICATES PROPOSED ROUTING OF PRIMARY DUCT BANK FROM EXISTING SWITCHGEAR TO TRANSFORMER.
- 6. INDICATES PROPOSED ROUTING OF COMMUNICATION DUCT BANK (TELEPHONE/FIBRE/SPARE) FROM PROPERTY LINE TO MAIN ELECTRICAL ROOM. TERMINATE DUCT BANK AT PROPERTY LINE SIGN TO BE PROVIDED BY OWNER. PROVIDE WEATHERPROOF JUNCTION BOX TO BE INSTALLED BELOW GRADE FOR CAPPING OF PYLON DUCTS REQUIRED TO SERVICE OWNERS FUTURE PYLON SIGNAGE. CONFIRM EXACT LOCATION AND REQUIREMENTS ON SITE WITH OWNERS AND ARCHITECT PRIOR TO ROUGH-IN.
- 7. INDICATES APPROXIMATE LOCATION OF FUTURE PYLON SIGN TO BE PROVIDED BY OWNER. PROVIDE WEATHERPROOF JUNCTION BOX TO BE INSTALLED BELOW GRADE FOR CAPPING OF PYLON DUCTS REQUIRED TO SERVICE OWNERS FUTURE PYLON SIGNAGE. CONFIRM EXACT LOCATION AND REQUIREMENTS ON SITE WITH OWNERS AND ARCHITECT PRIOR TO ROUGH-IN.
- 8. PROVIDE UNDERGROUND PRECAST JUNCTION BOX FOR TERMINATION OF DUCTS AS SHOWN EQUAL TO ACTION PRECAST CAT #B484 C/W 2-PIECE GALVANIZED COVER AND FRAME. INSTALL MANHOLE ON 150mm GRANULAR 1" BASE AND TERMINATE DUCTS AS NOTED C/W BELL ENDS. ENSURE COVER OF JUNCTION BOX IS INSTALLED FLUSH WITH SURFACE. CONFIRM EXACT LOCATION WITH OWNERS RESPONSIBLE PRIOR TO ROUGH-IN. REFER TO DETAIL JET 2 FOR FURTHER DETAILS.
- 9. INDICATES EXTERIOR WALL MOUNTED FIXTURE AT HEIGHT PER ARCHITECTURAL ELEVATIONS.
- 10. PROVIDE CONCRETE ENCASMENT FOR DUCTBANK ACROSS HEAVY DUTY ASPHALT AREA AS SHOWN.
- 11. INDICATES PROPOSED ROUTING OF LIGHTING DUCT BANK FROM MAIN ELECTRICAL ROOM TO VARIOUS POLE LIGHTING FIXTURES AS SHOWN.
- 12. INDICATES PROPOSED ROUTING OF PORTABLE DUCT BANK FROM MAIN ELECTRICAL ROOM TO PRECAST JUNCTION BOX INSTALLED BELOW GRADE FOR SERVING OF FUTURE PORTABLES.
- 13. INDICATES PROPOSED ROUTING OF SECONDARY DUCT BANK C/W FEEDERS FROM PAD MOUNT TRANSFORMER TO MAIN SWITCHBOARD IN MAIN ELECTRICAL ROOM.
- 14. ELECTRIC VEHICLE DUCTBANK HOME RUN BACK TO MAIN ELECTRICAL ROOM.
- 15. COORDINATE DUCT CROSSING ON SITE PRIOR TO ROUGH-IN.
- 16. INDICATES APPROXIMATE LOCATION OF HYDRO ANTENNA JUNCTION BOX. REFER TO MILTON HYDRO DETAILS FOR EXACT REQUIREMENTS.

ELECTRICAL SYMBOLS		NOTE: ALL SYMBOLS MAY NOT BE USED	
LIGHTING		POWER	
	LIGHT FIXTURE TYPE AS INDICATED		WALL MOUNTED RECEPTACLE (15A-120V)
	DENOTES FIXTURE ON TIME OF DAY CONTROLS		WALL MOUNTED T-SLOT RECEPTACLE (20A-120V)
	COMBINATION EMERGENCY EXIT TYPE AS INDICATED E+X INDICATES BATTERY UNIT TYPE, D+X INDICATES DC CIRCUIT, AND X+X INDICATES AC SOURCE CIRCUIT		T-SLOT RECEPTACLE MTD. ABOVE COUNTER (20A-120V)
	CEILING OR WALL MOUNTED LIGHT FIXTURE TYPE AS INDICATED		RECEPTACLE MTD. ABOVE COUNTER (15A-120V)
	POLE MOUNTED LIGHT FIXTURE		STOVE RECEPTACLE - REFER TO SPECIFICATIONS
	WALL MOUNTED EXIT LIGHT SHADING INDICATES FACE		DRIVER RECEPTACLE - REFER TO SPECIFICATIONS
	CEILING MOUNTED EXIT LIGHT ARROWS DENOTE DIRECTION SHADING INDICATES FACE		SPECIAL RECEPTACLE - REFER TO SPECIFICATIONS
	SINGLE OR TWIN EMERGENCY LIGHTING FIXTURE		QUAD RECEPTACLE
	BATTERY UNIT WITH INTEGRAL EMERGENCY FIXTURE E+X INDICATES BATTERY UNIT TYPE, D+X INDICATES DC CIRCUIT, AND X+X INDICATES AC SOURCE CIRCUIT		DIRECT CONNECTION
	SINGLE POLE SWITCH (3-3 WAY, 4-4 WAY, PUSH-OUT LIGHT, K-WHEELED, DM-DIMMER, M-MOTOR RATED)		FLOOR BOX C/W DEVICES AS NOTED (REFER TO SPECIFICATIONS)
	OCCUPANCY SENSOR (PASSIVE)		JUNCTION BOX
	OCCUPANCY SENSOR (OSCILLATING TECHNOLOGY OR DUAL TECHNOLOGY OR DUAL TECHNOLOGY)		PULL BOX
	CEILING MOUNTED MOTION SENSOR		PANEL AS INDICATED
	WALL MOUNTED MOTION SENSOR		FUSED DISCONNECT
	DIGITAL ROOM CONTROLLER		UNFUSED DISCONNECT
	DIGITAL WALL STATION 'X' DENOTES NUMBER OF CONTROL BUTTONS IN SINGLE GANG		VARIABLE FREQUENCY DRIVE
	LIGHTING NETWORK BRIDGE		SURGE PROTECTION DEVICE. REFER TO SPECIFICATIONS
	DOME LIGHT		DUAL VOLTAGE RELAY
	ANALOG POWER PACK		TIME CLOCK
	DIGITAL PLUG LOAD CONTROLLER		EV CHARGER ROUGH-IN
FIRE ALARM			MAGNETIC STARTER
	HEAT DETECTOR (135 DEGREE RATE OF RISE AND FIXED TEMPERATURE)		COMBINATION MAGNETIC STARTER
	DUCT TYPE SMOKE DETECTOR		DESTRASTRIFICATION FAN
	SMOKE DETECTOR (RL-RELAY BASE)		SURFACE RACEWAY C/W DEVICES AS NOTED (REFER TO SPECIFICATIONS)
	SMOKE ALARM C/W BATTERY BACK UP AND INTEGRAL STROBE LIGHT (CO INDICATES 3 IN 1 CARBON MONOXIDE/STROBE/SMOKE ALARM)		HAND DRYER
	PULLSTATION		PUSH-BUTTON STATION (QUANTITY OF BUTTONS AS PER PLANS)
	SUPERVISED VALVE		CONTACTOR
	FLOW SWITCH		SAFETY PHOTO EYES
	ALARM HORN		THERMOSTAT (3A-REVERSE ACTING) (HONEYWELL CAT. #T851 SERIES)
	ALARM STROBE		SOLENOID VALVE
	COMBINATION HORN/STROBE		CURRENT SENSOR
	END-OF-LINE RESISTOR		TRANSFORMER
	DOOR HOLD OPEN DEVICE		OPEN-CLOSE-STOP PUSH BUTTON
	FIRE SMOKE DAMPER	SECURITY	
COMMUNICATIONS			SECURITY DETECTOR (SURFACE MOUNTED)
	SINGLE WALL MOUNTED TELEPHONE OUTLET C/W 1/2" (13mm) C TO CABLE MANAGEMENT SYSTEM		SECURITY JUNCTION BOX (2400mm AFF) C/W 15mm C TO NEAREST SECURITY JUNCTION BOX
	SINGLE COMPUTER OUTLET C/W 3/4" (19mm) C TO CABLE MANAGEMENT SYSTEM		SECURITY KEYPAD INSTALL 100mm AFF C/W 15mm C TO NEAREST SECURITY JUNCTION BOX
	COMBINATION VOICE COMPUTER OUTLET (UNLESS OTHERWISE NOTED C/W 3/4" (19mm) C TO CABLE MANAGEMENT SYSTEM. # INDICATES THE QUANTITY OF ACTIVE PORTS. LEFT VALUE ALWAYS INDICATES VOICE)		DOOR CONTACT C/W 19mm C TO NEAREST SECURITY JUNCTION BOX (REFER TO DETAIL)
	WIRELESS ACCESS POINT PROVIDE 3/4" (19mm) C TO CABLE MANAGEMENT SYSTEM		SECURITY JUNCTION BOX 150mm (6") SQUARE C/W COVER
	CLOCK AS PER SPECIFICATIONS		LOW TEMPERATURE SENSOR ROUGH- IN AS A SINGLE GANG BOX MOUNTED HORIZONTALLY AT 150mm BELOW FINISHED CEILING LEVEL. IF INDICATES ZONE EXPANSION PANEL THAT IT IS CONNECTED TO
	TELEVISION OUTLET C/W 1/2" (12mm) C TO CABLE MANAGEMENT SYSTEM		CEILING MOUNTED CAMERA
	HANGER SYSTEM (REFER TO DETAILS)		CAMERA POWER SUPPLY
	WALL MOUNTED SPEAKER (CS-COLUMN SPEAKER)		MAIN SECURITY CONTROL PANEL
	CEILING MOUNTED SPEAKER		ZONE EXPANSION PANEL. REFER TO INSTALLATION DETAIL.
	WALL MOUNTED SPEAKER CONNECTED TO SOUND SYSTEM EQUIPMENT		ELECTRIC STRIKE. CONFIRM ROUGH-IN WITH DOOR HARDWARE.
	HORN SPEAKER (SB-INTEGRAL LOCKDOWN STROBE)		"PUSH-TO-LOCK" BUTTON
	PA SYSTEM CEILING LOCKDOWN STROBE		EMERGENCY PUSH BUTTON STATION
	PA SYSTEM WALL LOCKDOWN STROBE		"ASSISTANCE REQUIRED" DOME LIGHT WITH SOUNDER
	MICROPHONE OUTLET		"ASSISTANCE REQUIRED" INDICATOR LIGHT WITH SOUNDER
	AUXILIARY ROUGH-IN FOR USE AS		CHANGE READER ROUGH-IN AS A SINGLE GANG BOX AT 1100mm AFF C/W 15mm C TO ELECTRIC STRIKE IN ADJACENT DOOR FRAME. CONFIRM ROUGH-IN WITH DOOR HARDWARE
	DOOR BUZZER		MOMENTARY CONTACT
	ASSISTIVE LISTENING ANTENNA		INTERCOM MONITOR/DOOR RELEASE STATION
ELECTRIC HEAT			POWER SUPPLY
	BASEBOARD ELECTRIC HEATER (TYPE AS INDICATED)	GENERAL	
	FAN FORCED ELECTRIC HEATER (TYPE AS INDICATED)	WG	WIREGUARD
	UNIT HEATER (TYPE AS INDICATED)	GF	GROUND FAULT
STANDARD CIRCUIT LABELING		WP	WEATHERPROOF
POWER PANEL LABEL CIRCUIT IDENTIFICATION SWITCH LEG (IF APPLICABLE)		AC	AUTOMATICALLY CONTROL RECEPTACLE (REFER TO PLANS)
		CLG	CEILING MOUNTED
		TR	TAMPER RESISTANT
		H	HOSPITAL GRADE
		U	USB TYPE RECEPTACLE
		VR	VANDAL RESISTANT
		NI	NOTE INDICATOR
		ME	MECHANICAL ITEM NO.
		OE	OWNERS EQUIPMENT ITEM NO.
		LG	LOCAL LIGHTING ZONE GROUPING INDICATOR 'X' DENOTES ZONE NUMBER



NO.	DESCRIPTION	DATE
3	ISSUED FOR TENDER	2026.02.03
2	ISSUED FOR 100% COORDINATION	2026.01.16
1	ISSUED FOR PERMIT	2026.03.21

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Professional Engineers
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Name: D.G. MCCONKEY
Number: 100230476
Licence: Design, design, reporting and specifications for all building electrical systems, site servicing and review of contractors for base systems in new and renovation construction.
Association of Professional Engineers of Ontario

MILTON #13 PUBLIC SCHOOL

1345 TRUDEAU DRIVE
MILTON, ON

LEGAL DESCRIPTION

PART OF LOT 6, CONCESSION 5
TOWN OF MILTON, REGION OF
HALTON

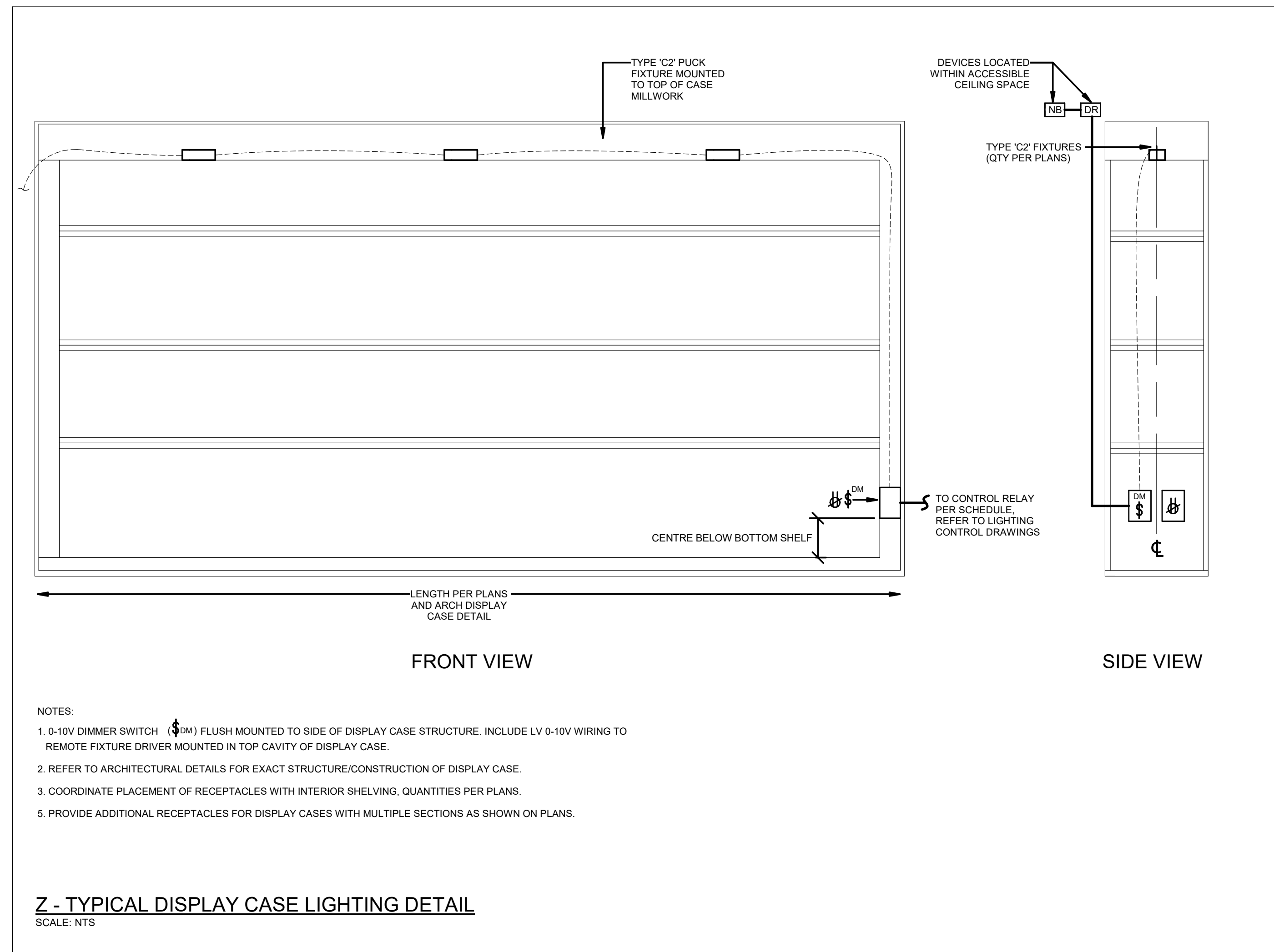
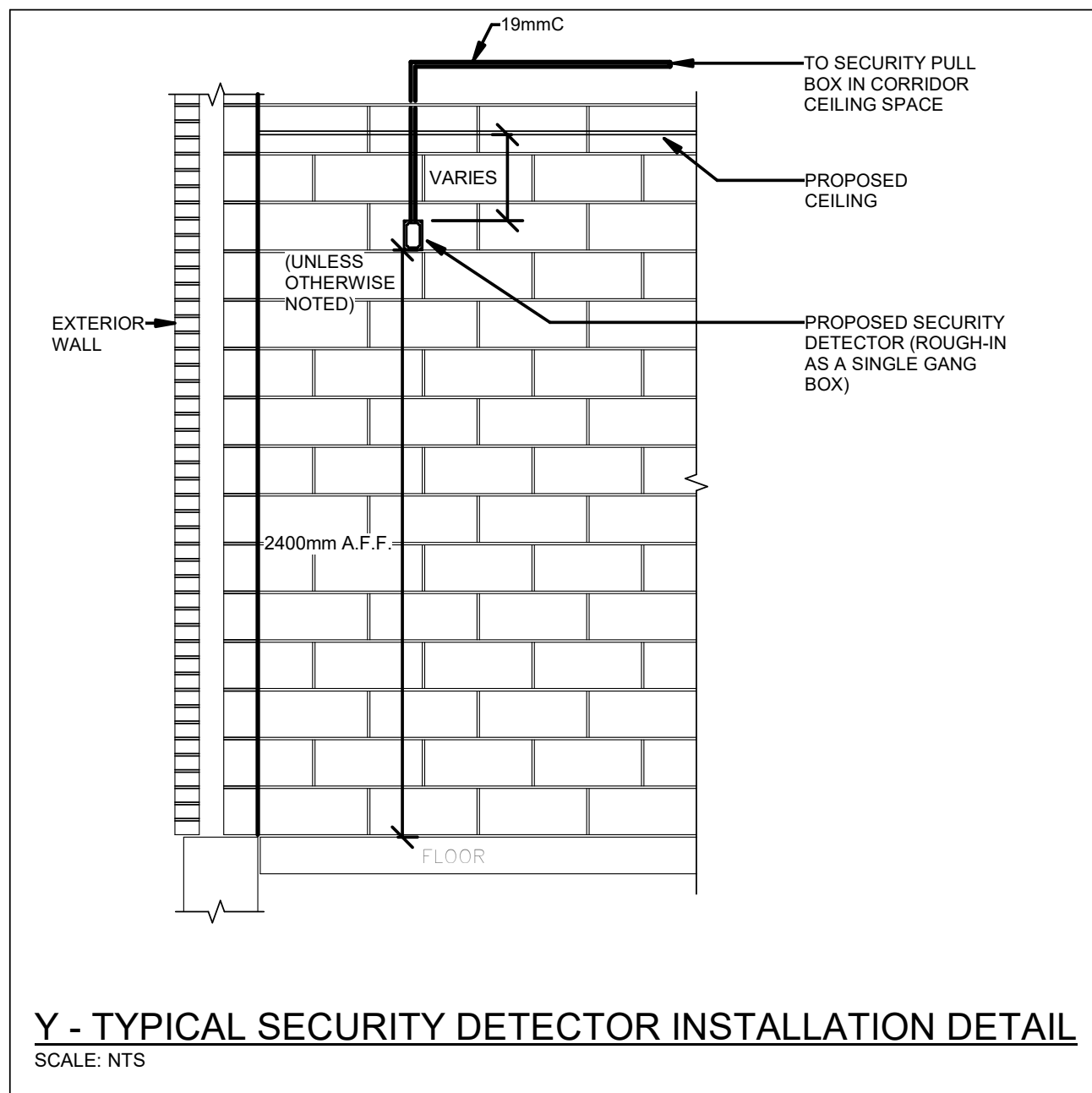
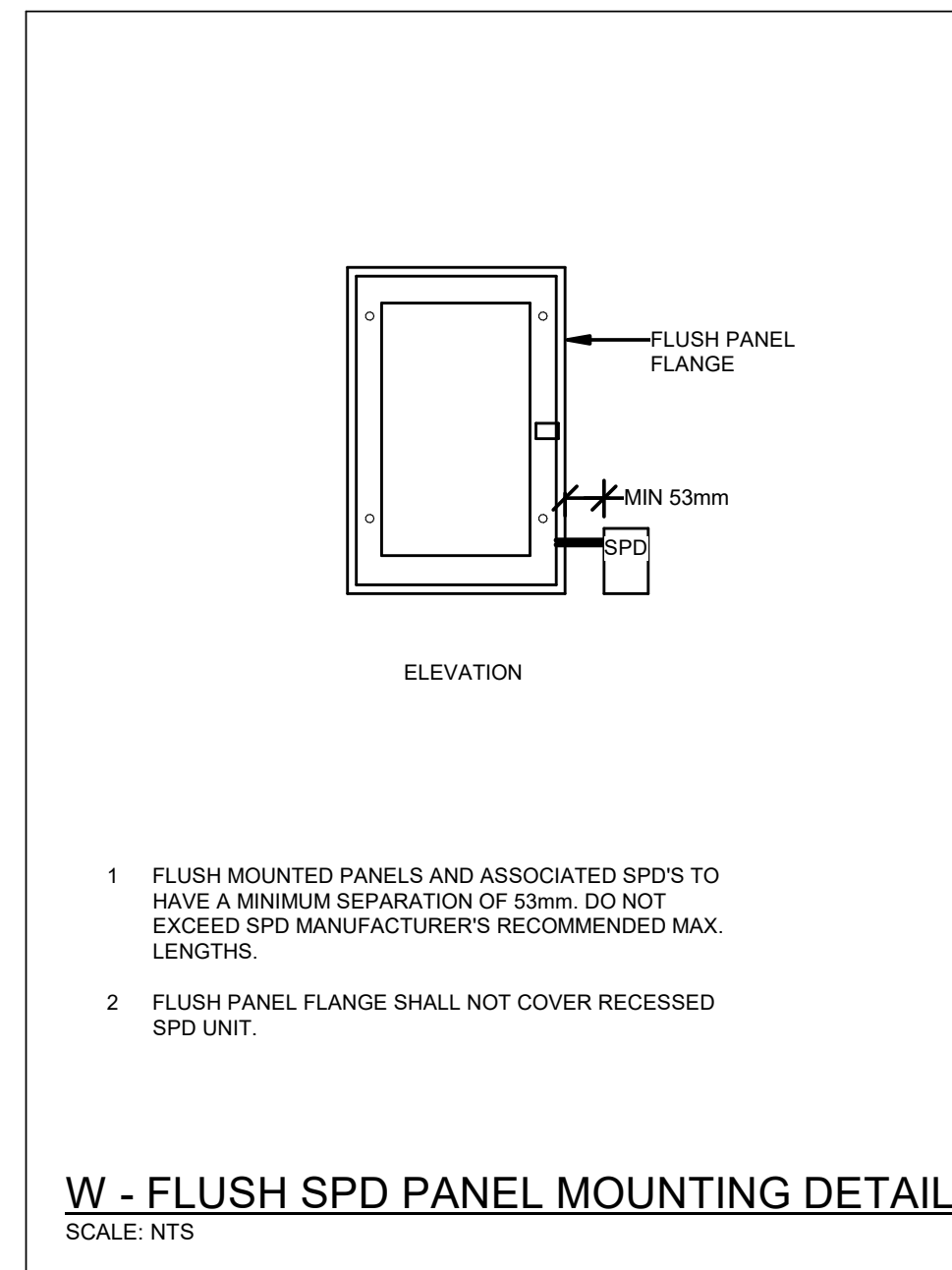
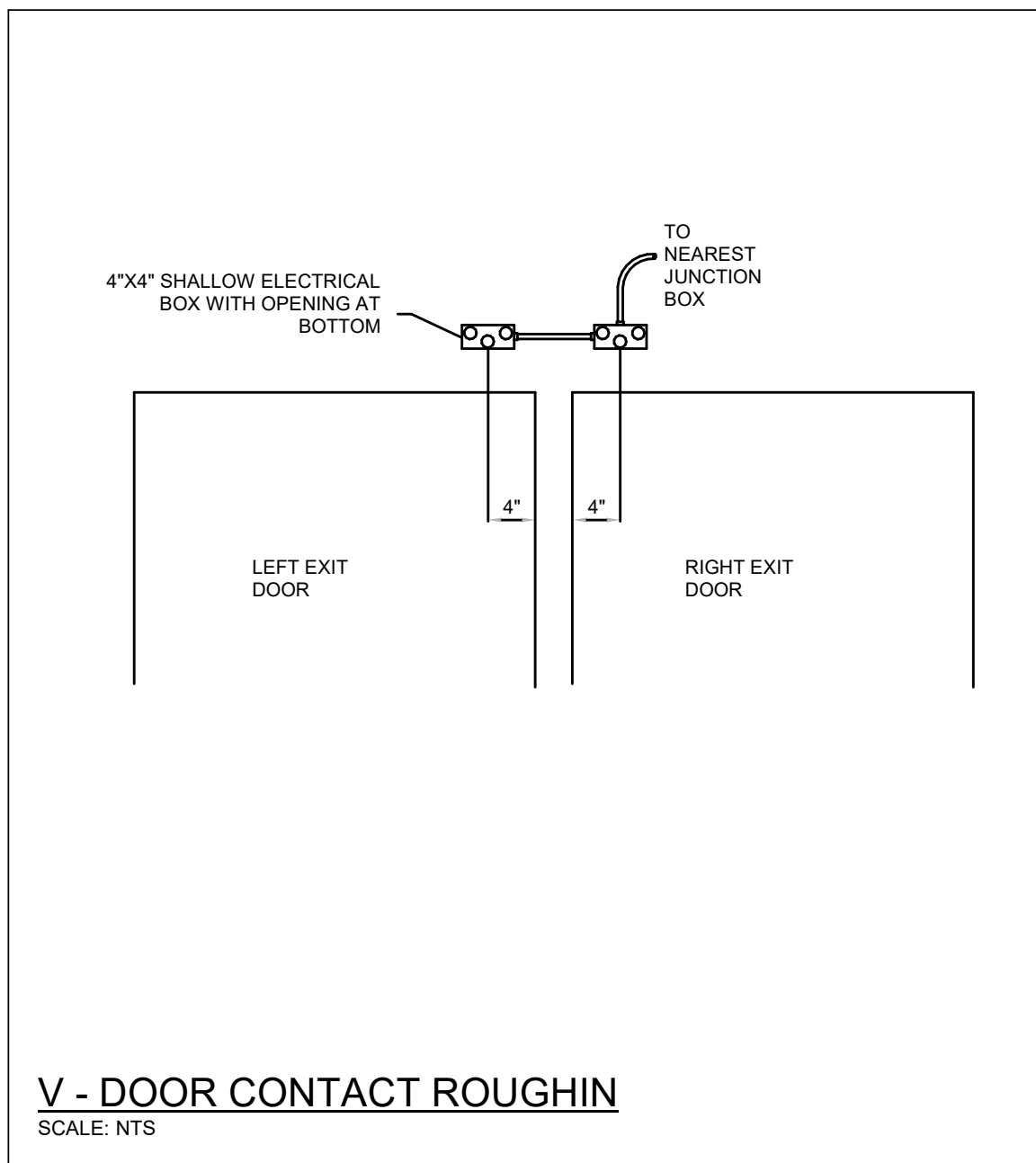
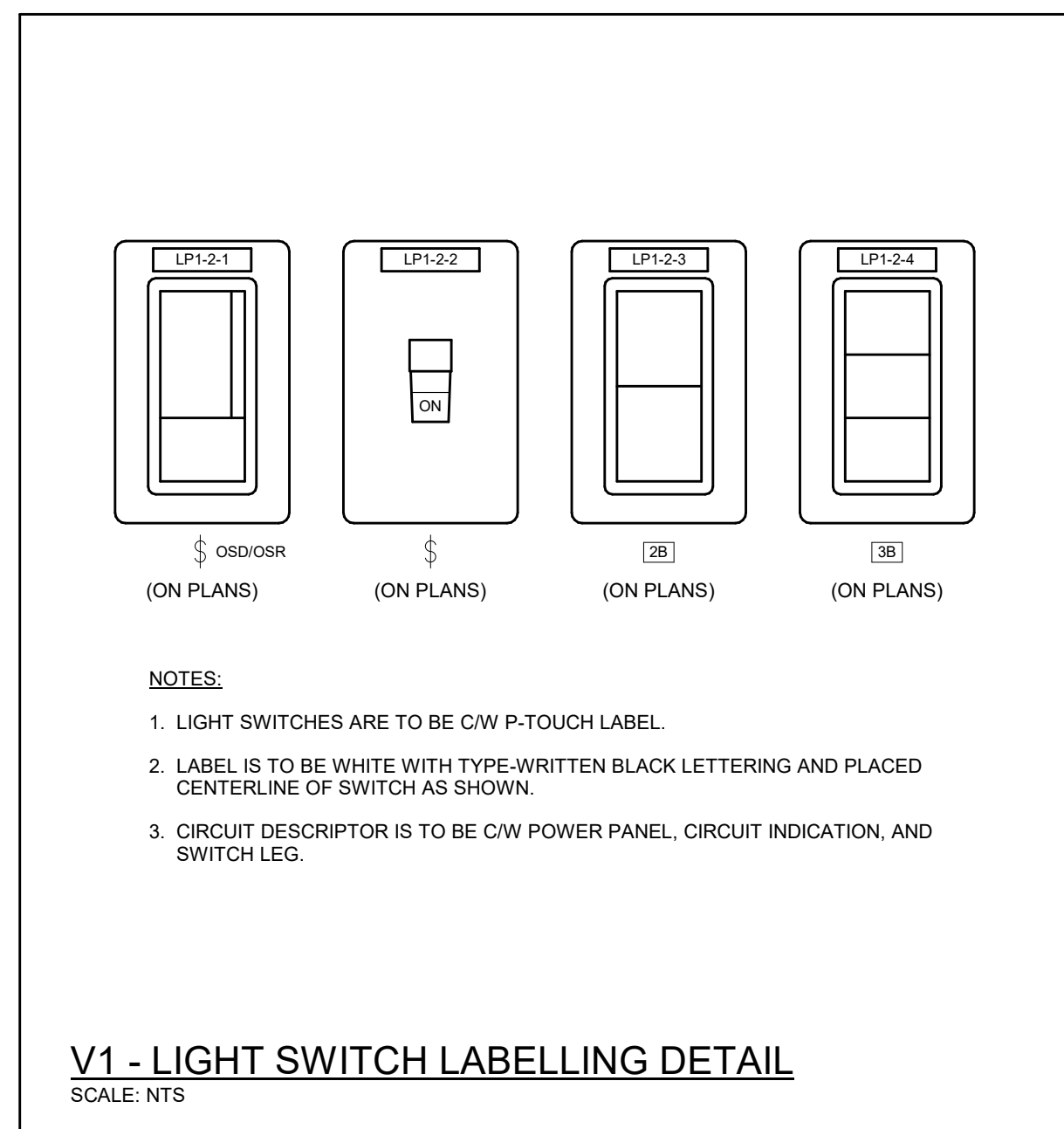
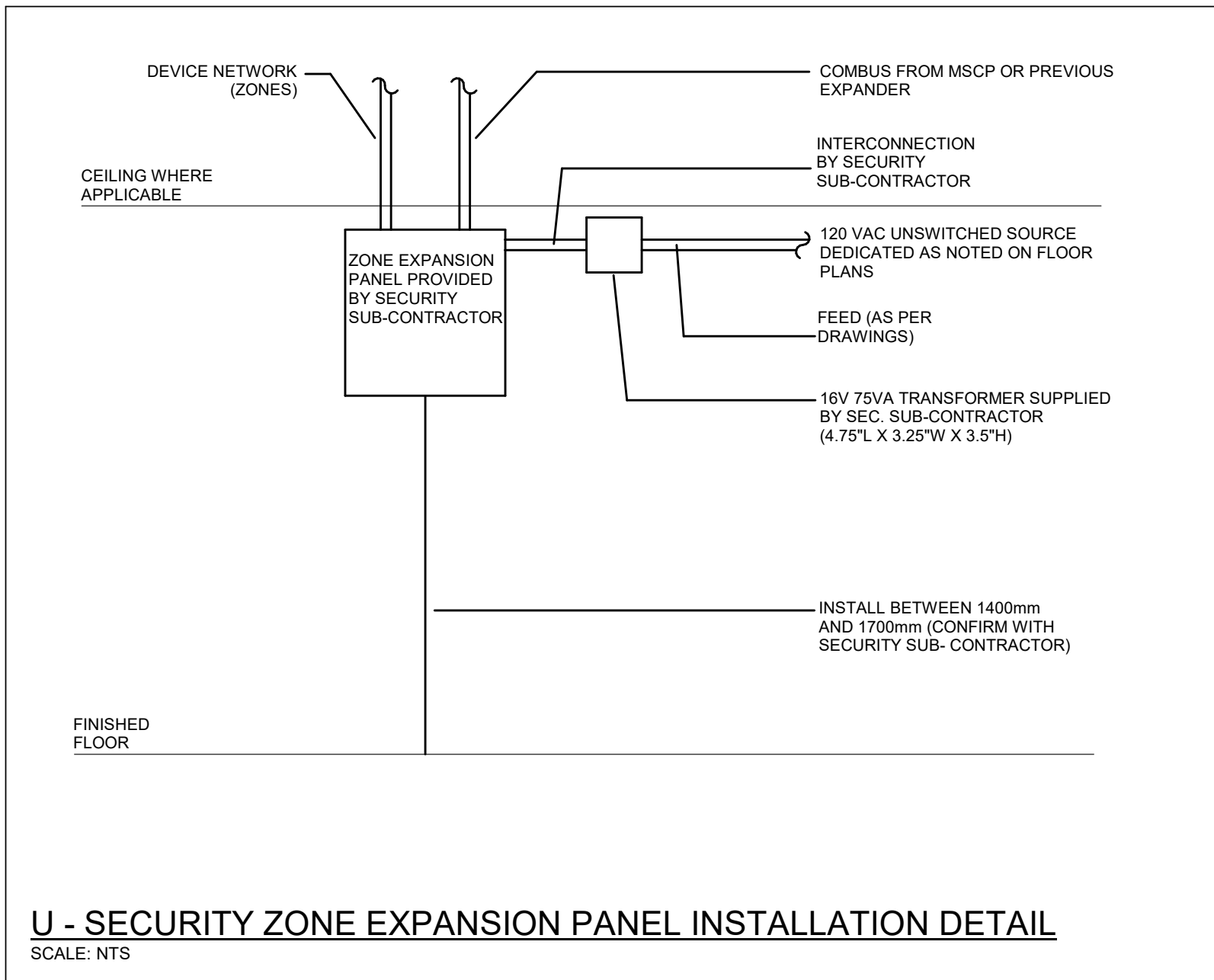
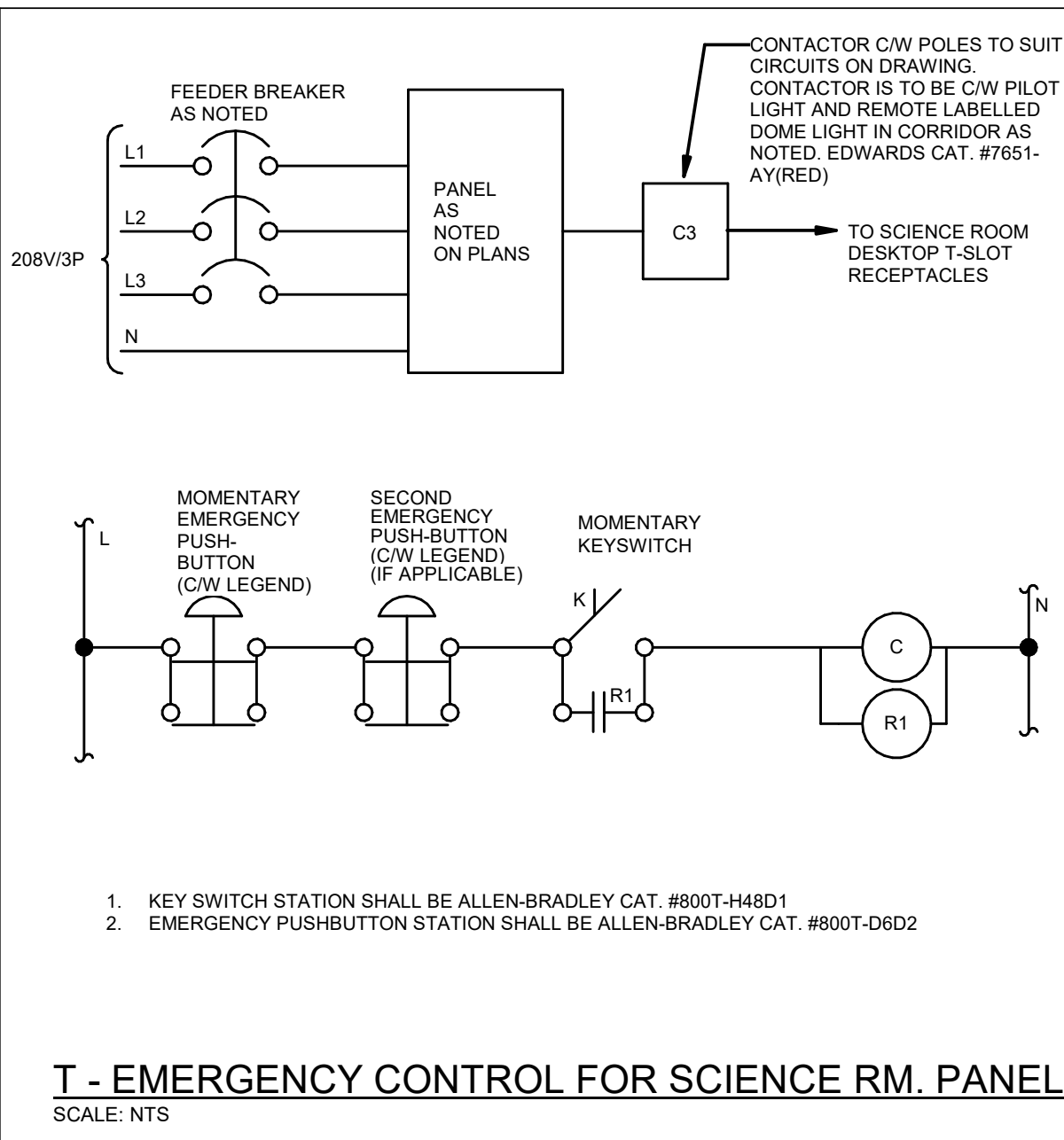
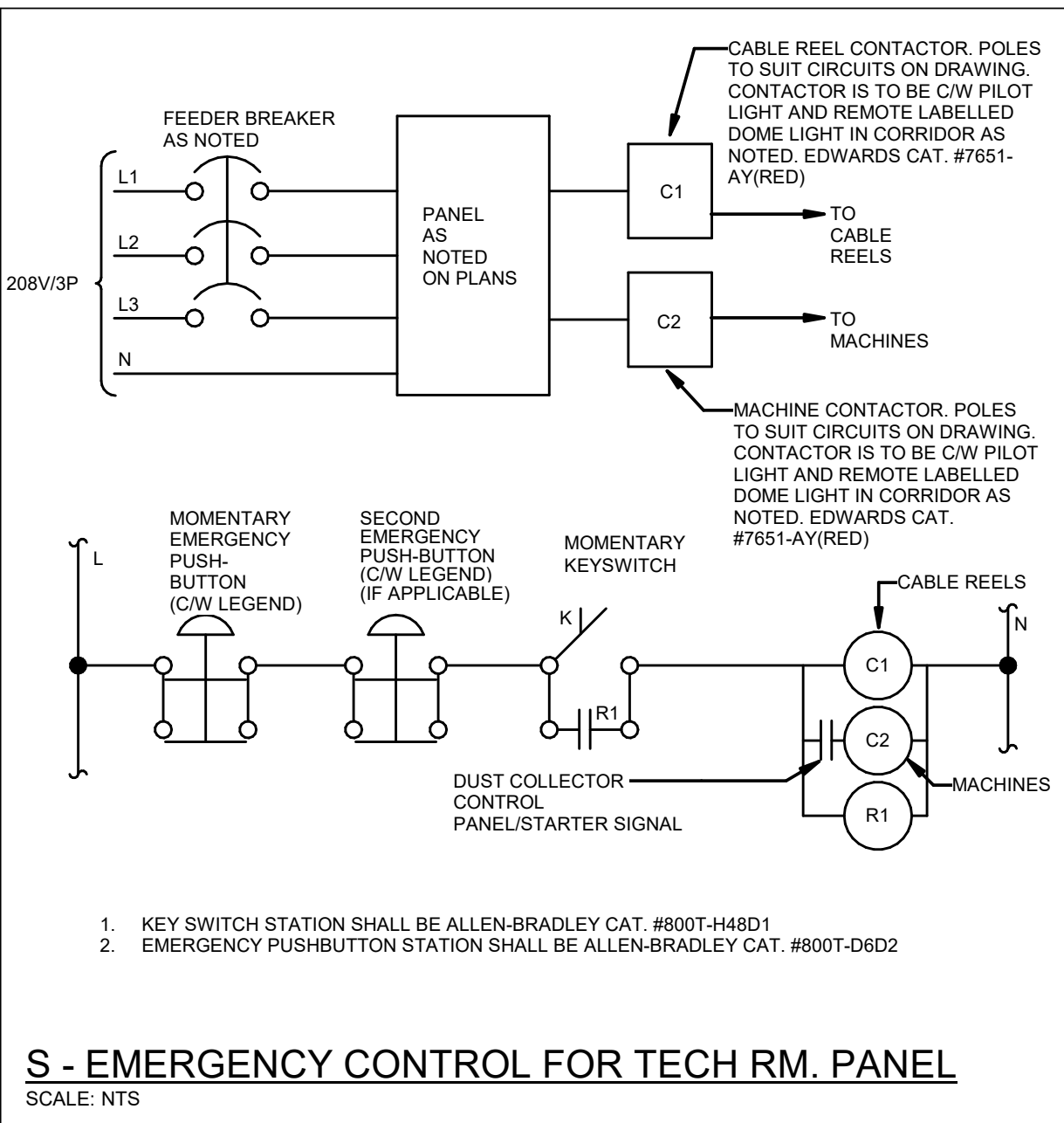
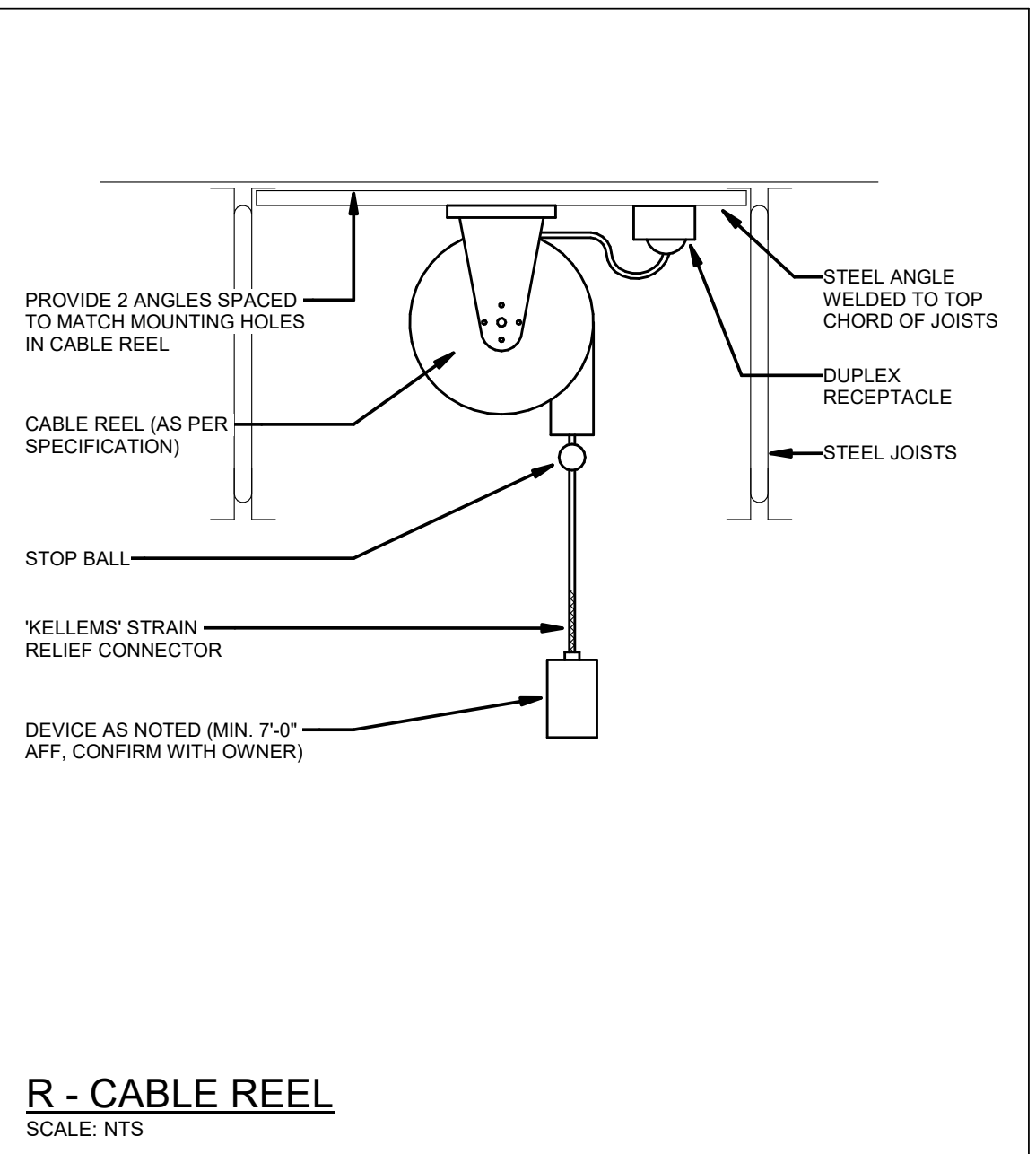
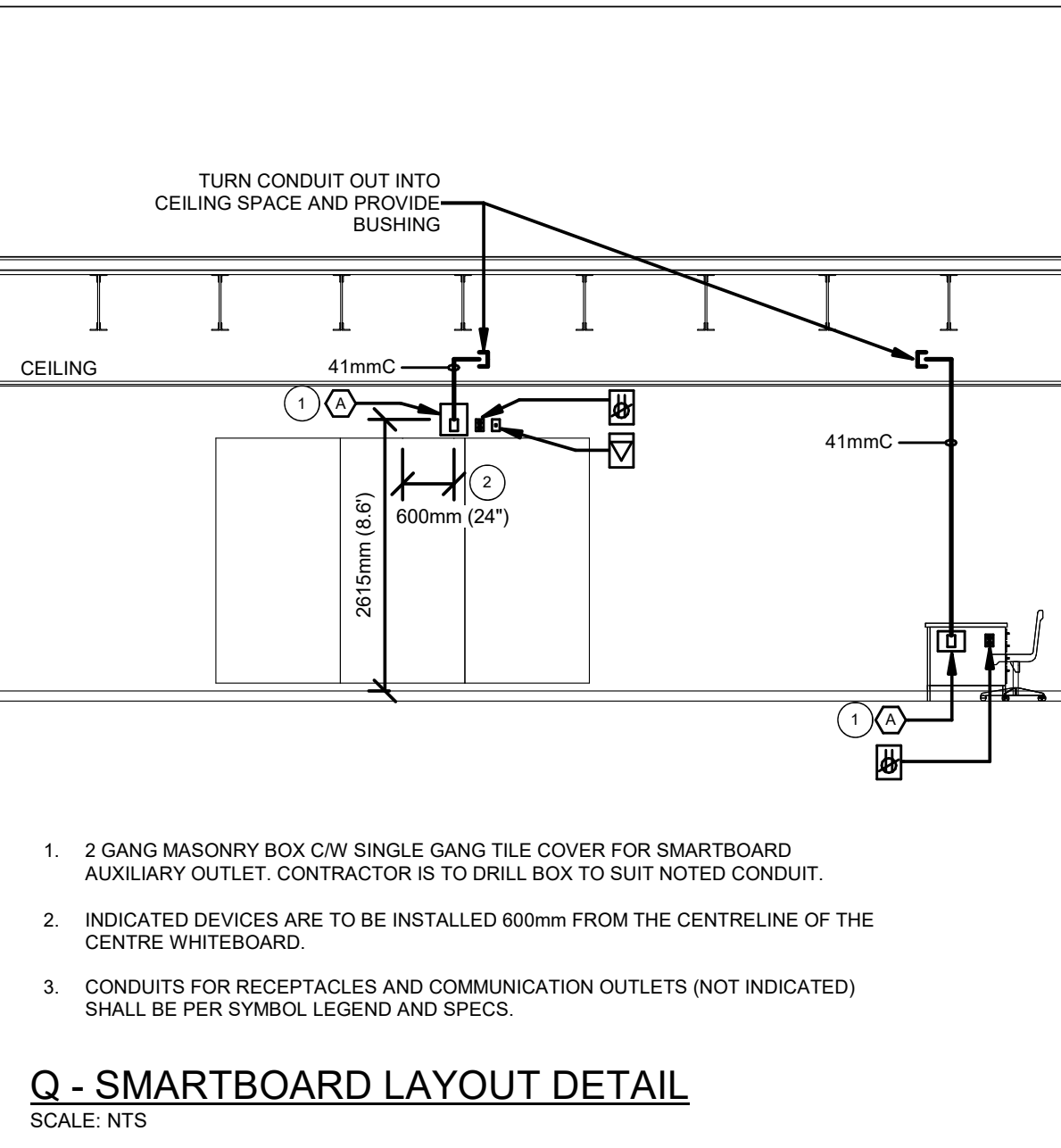
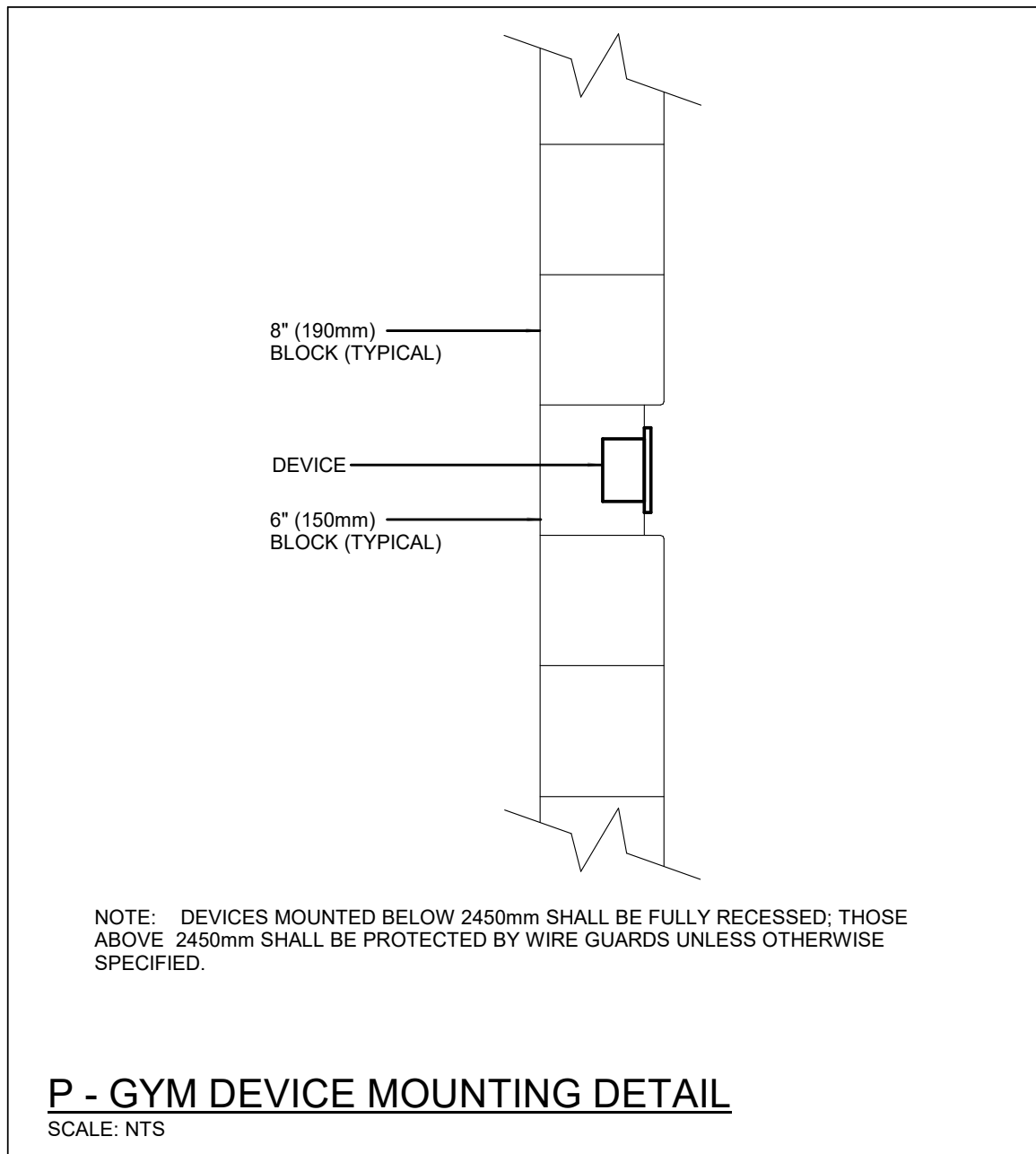
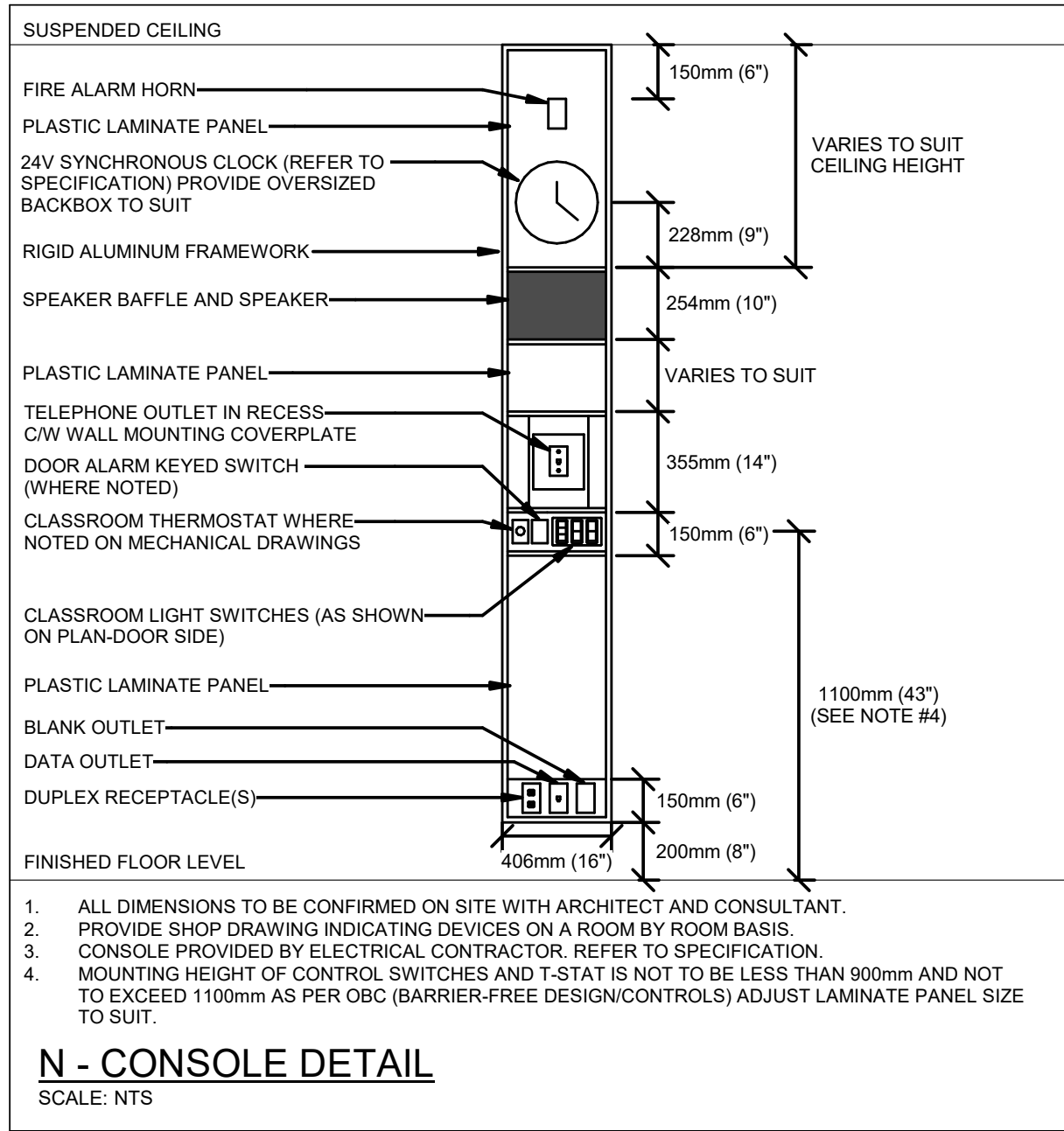
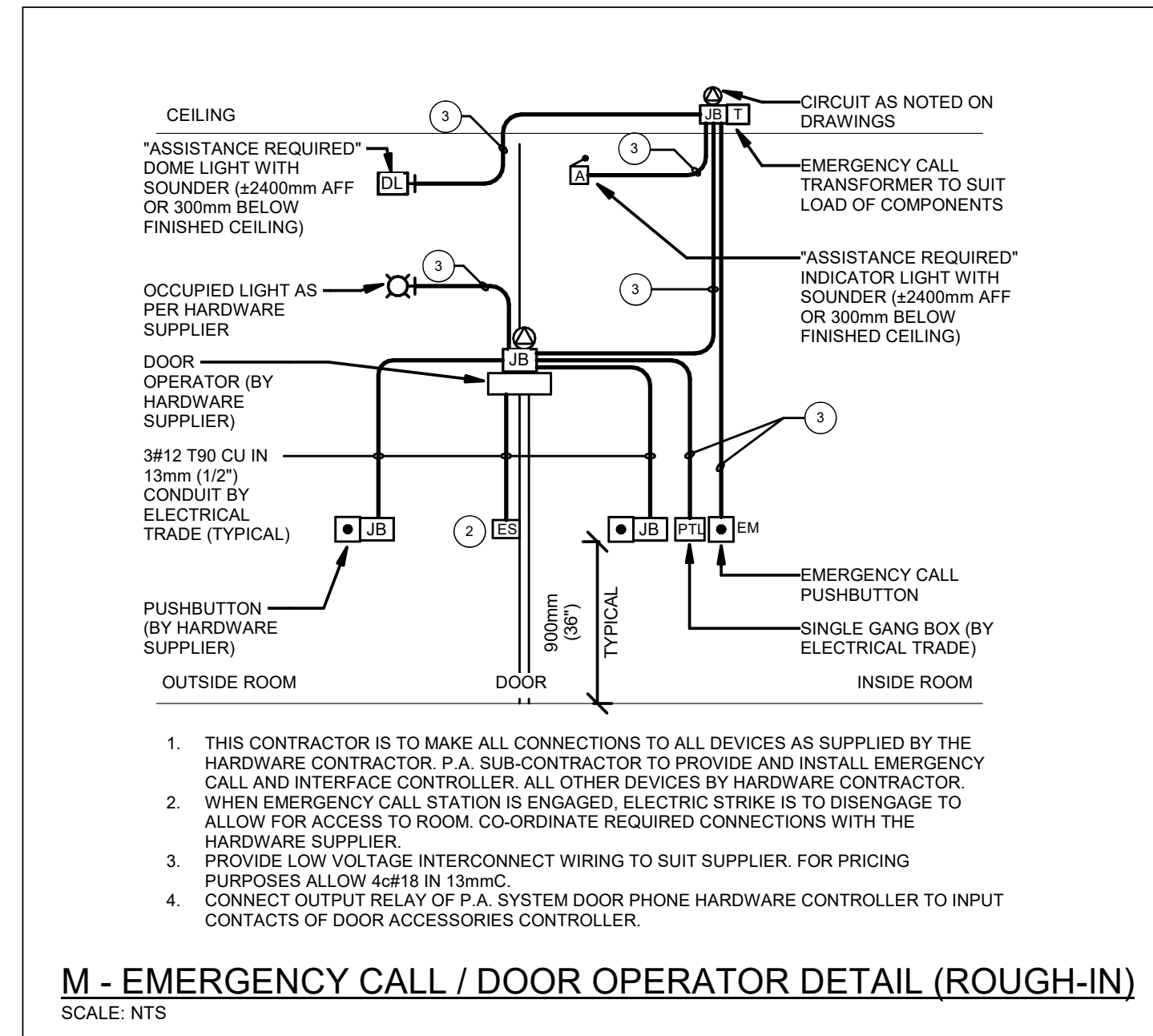
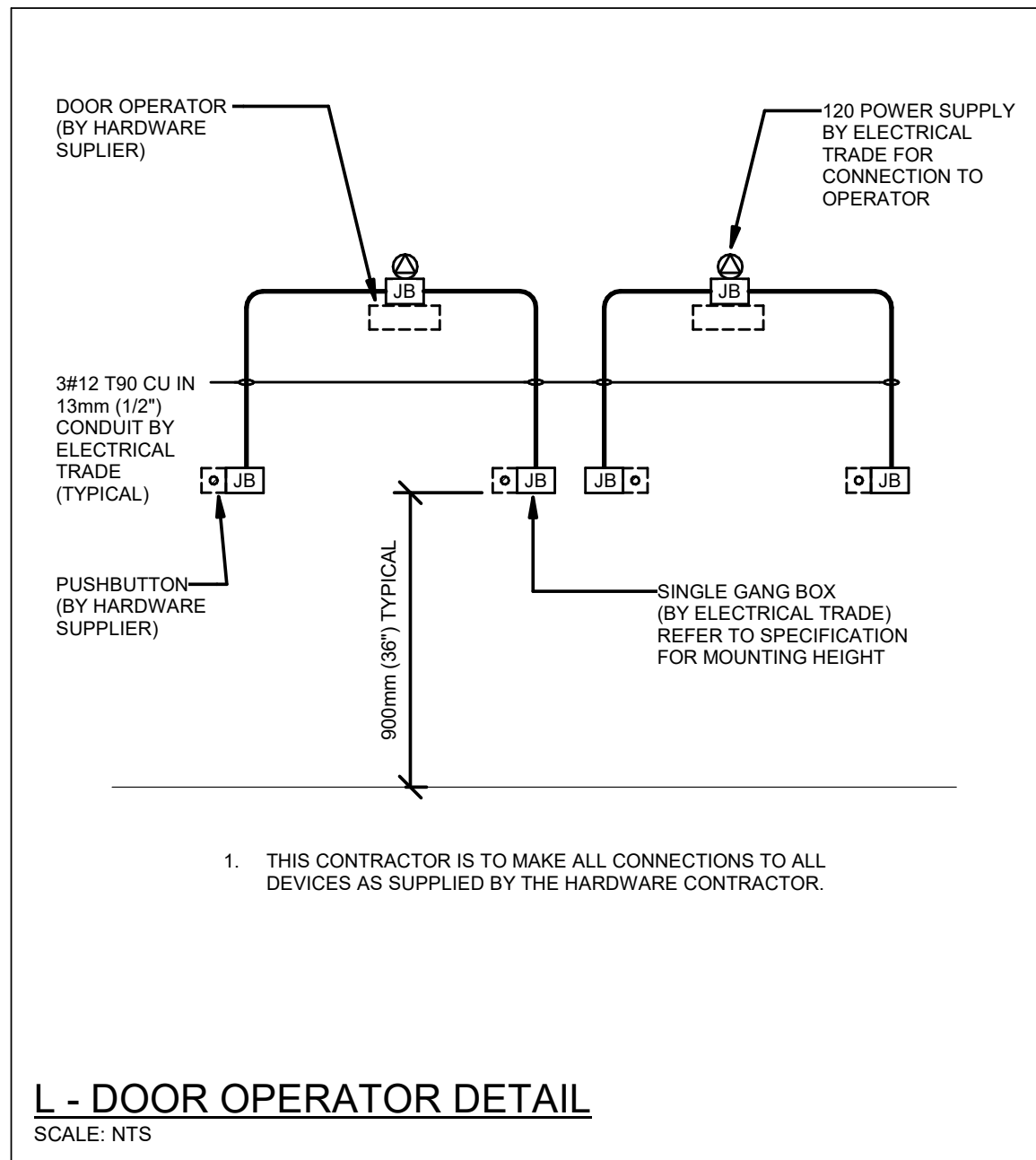
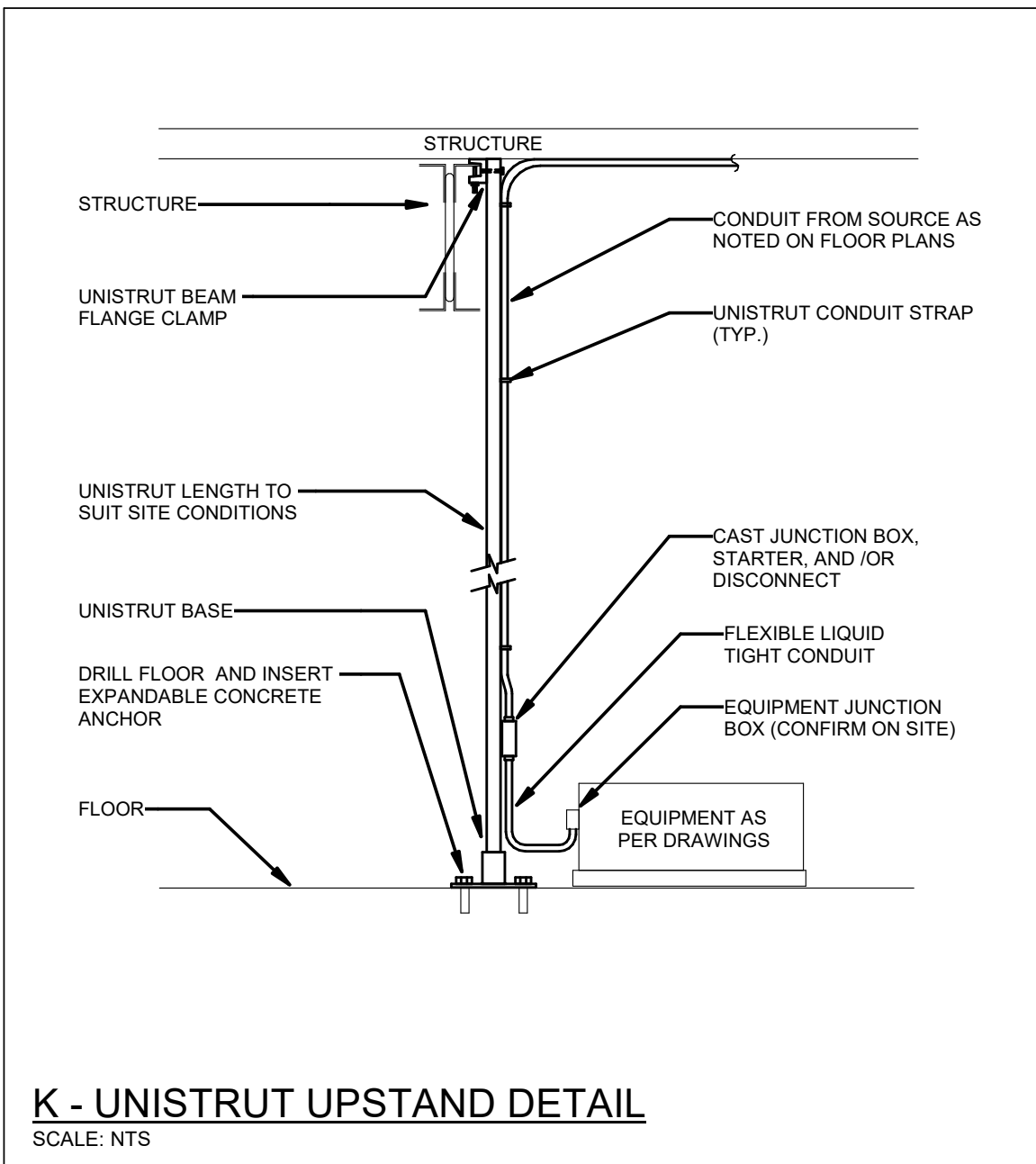
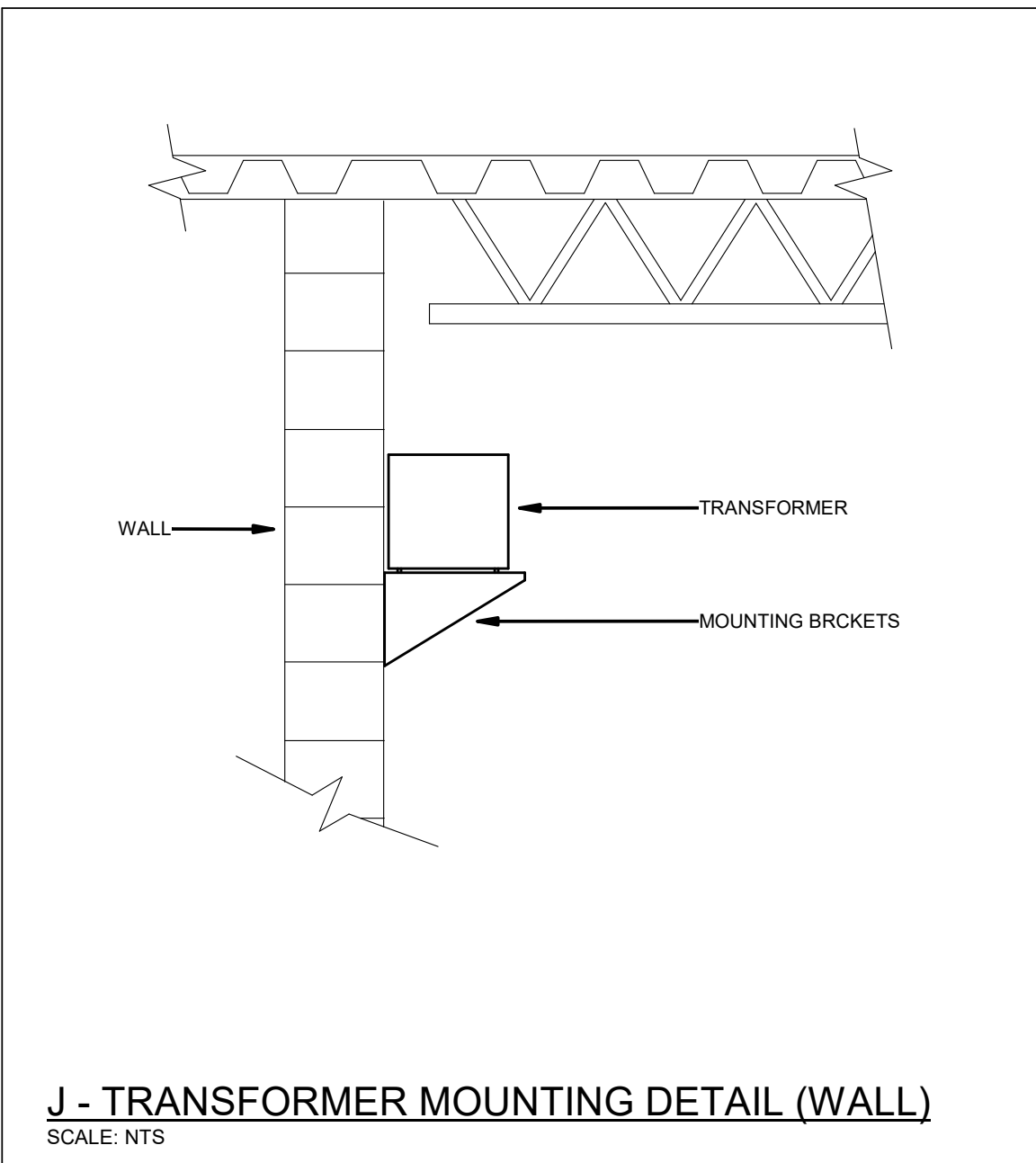
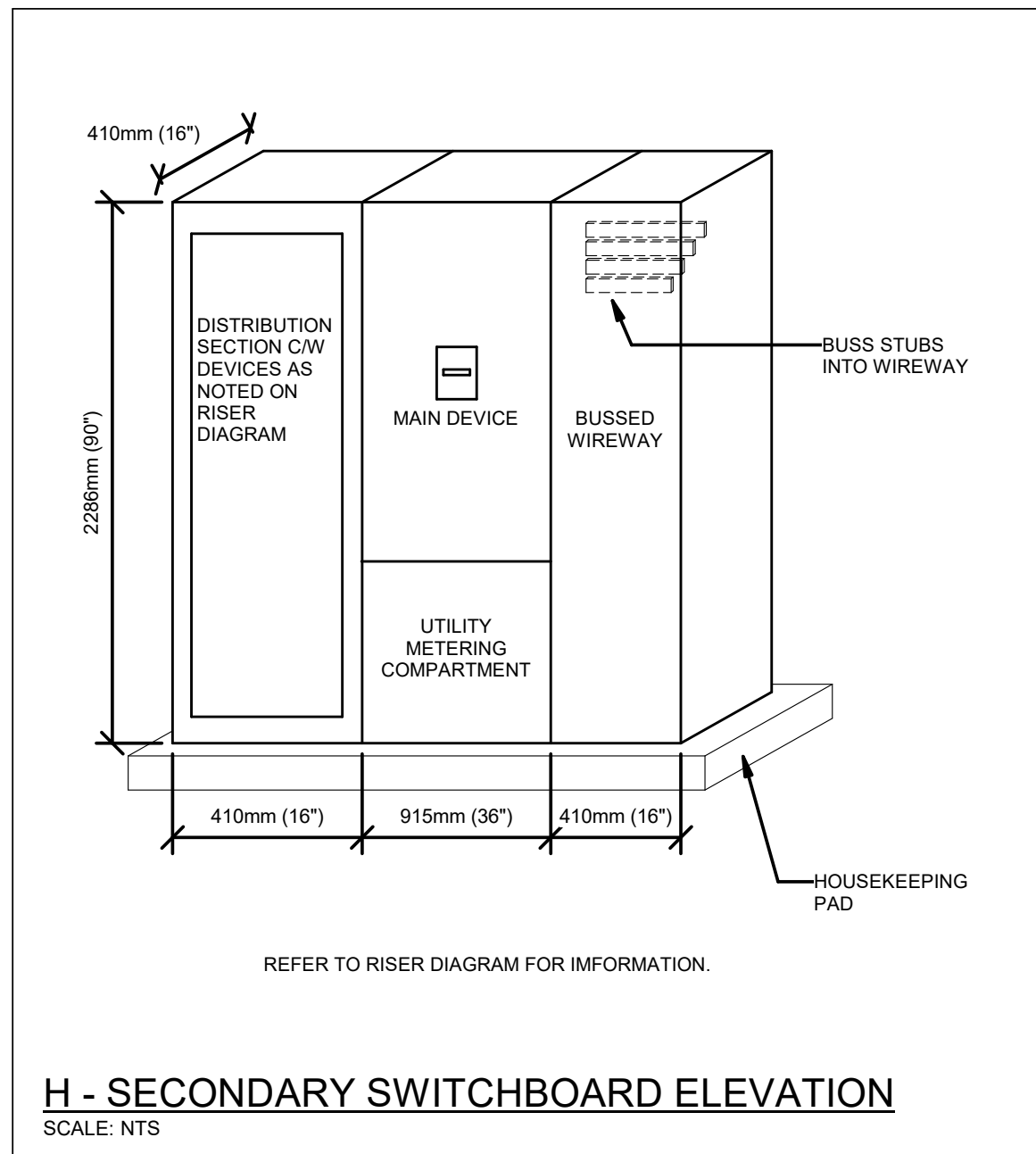
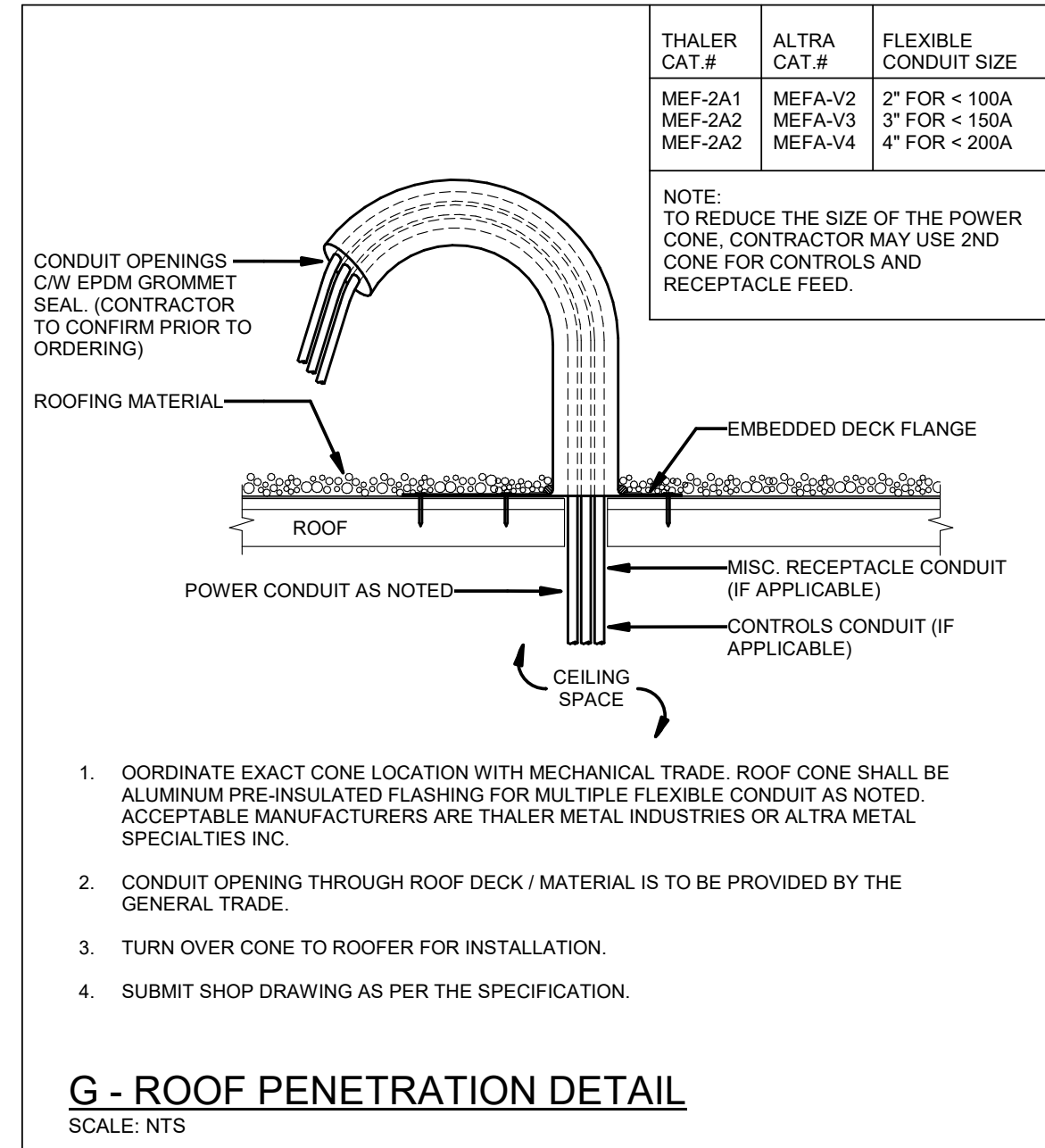
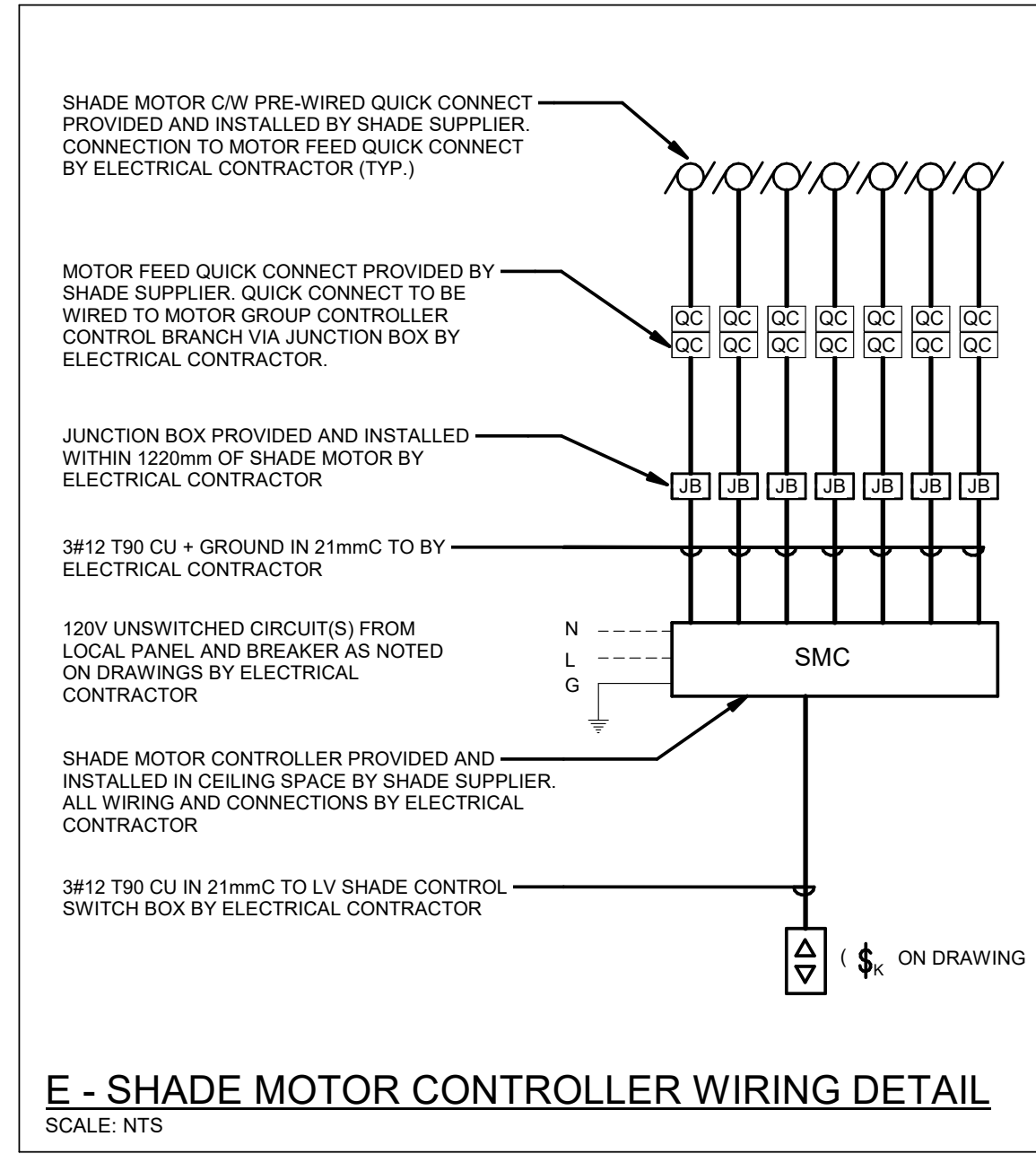
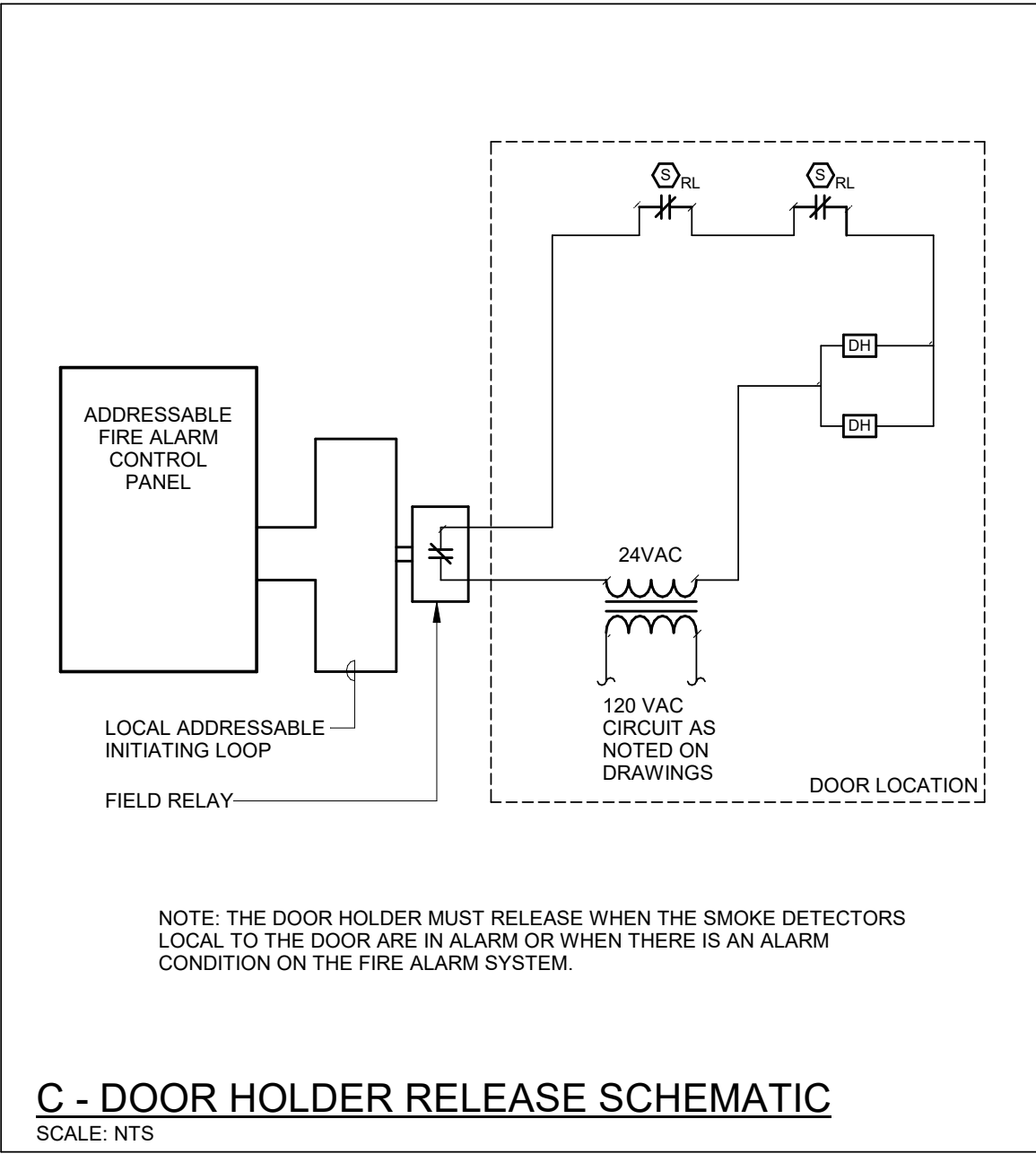
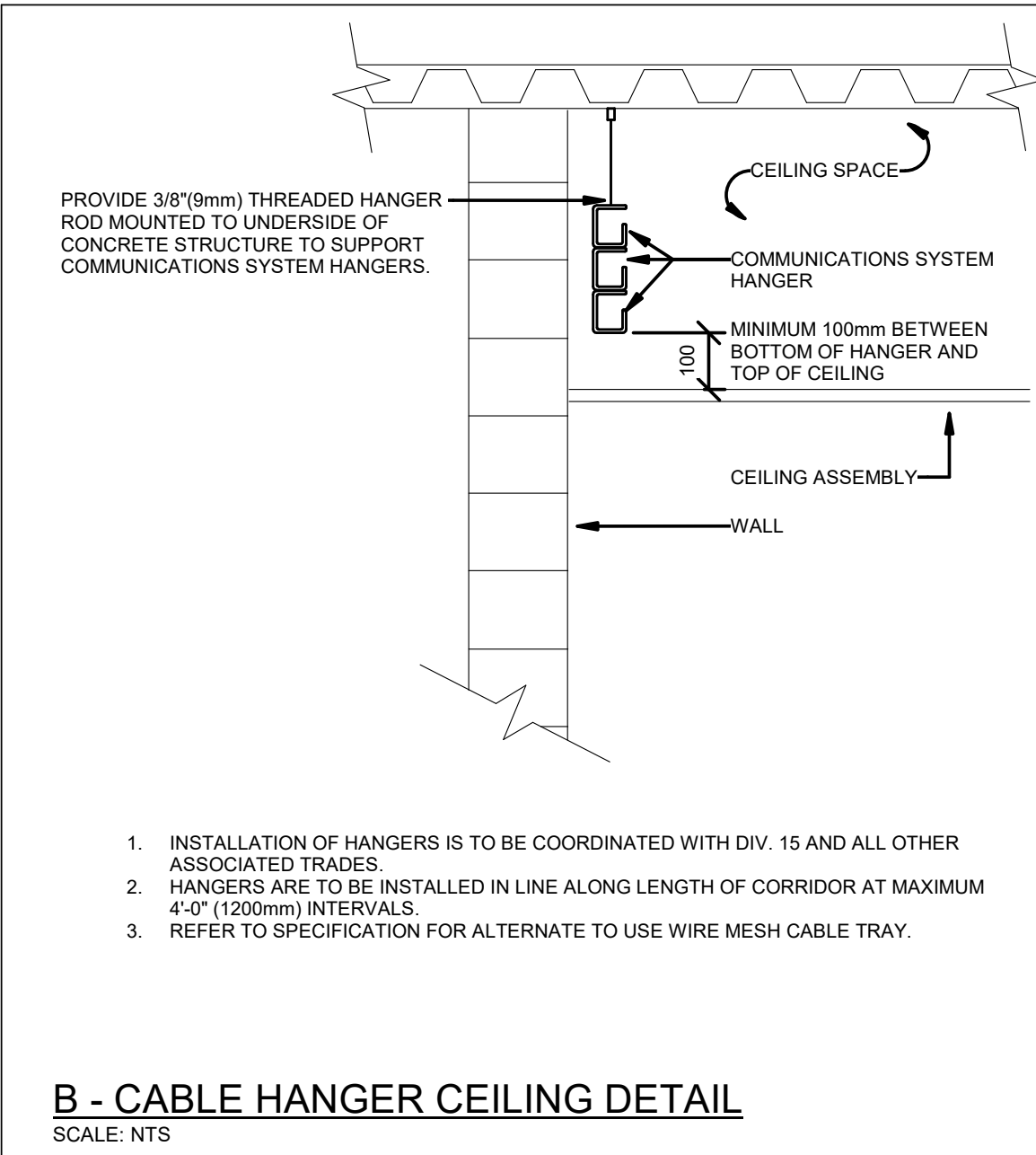
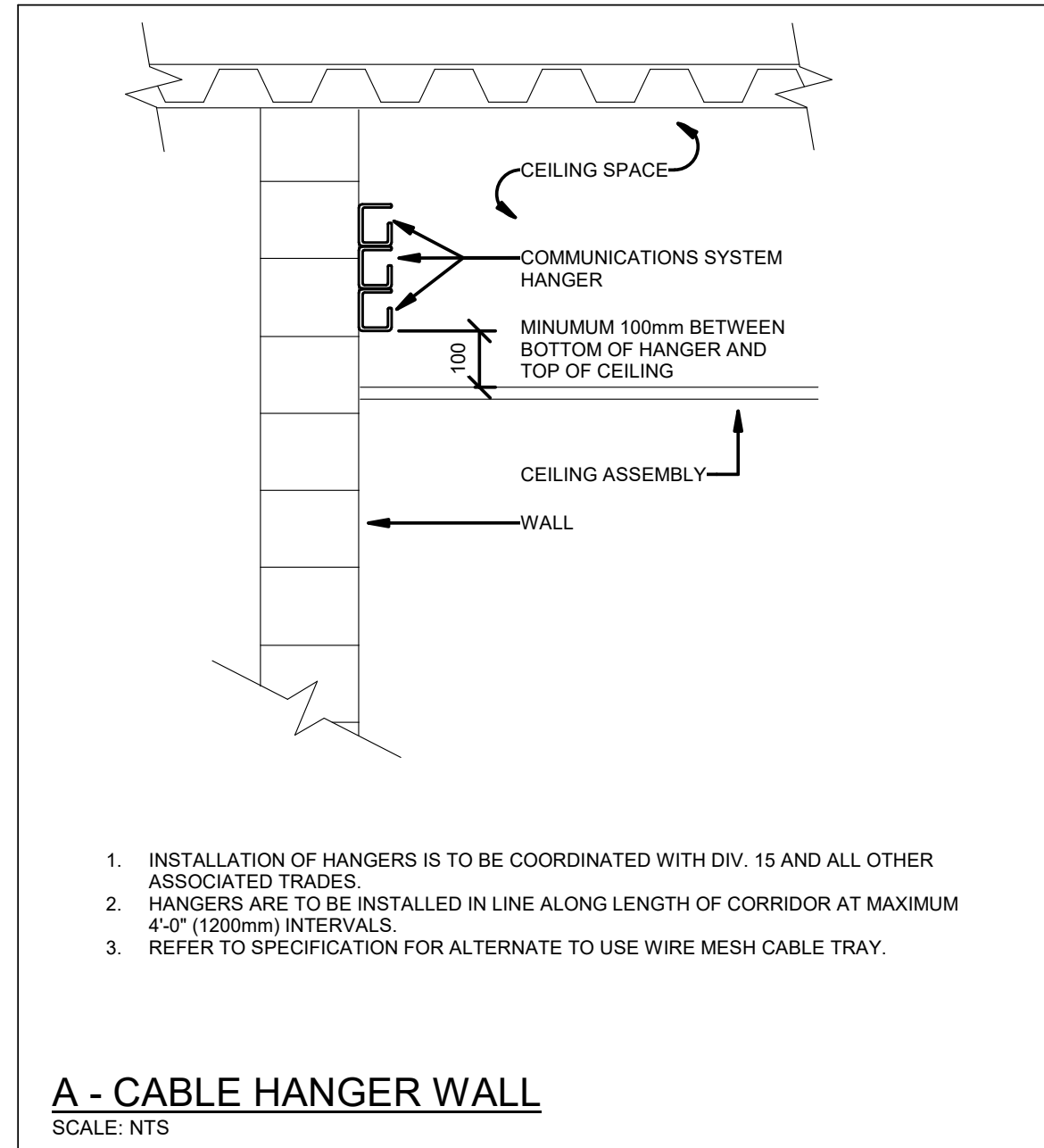
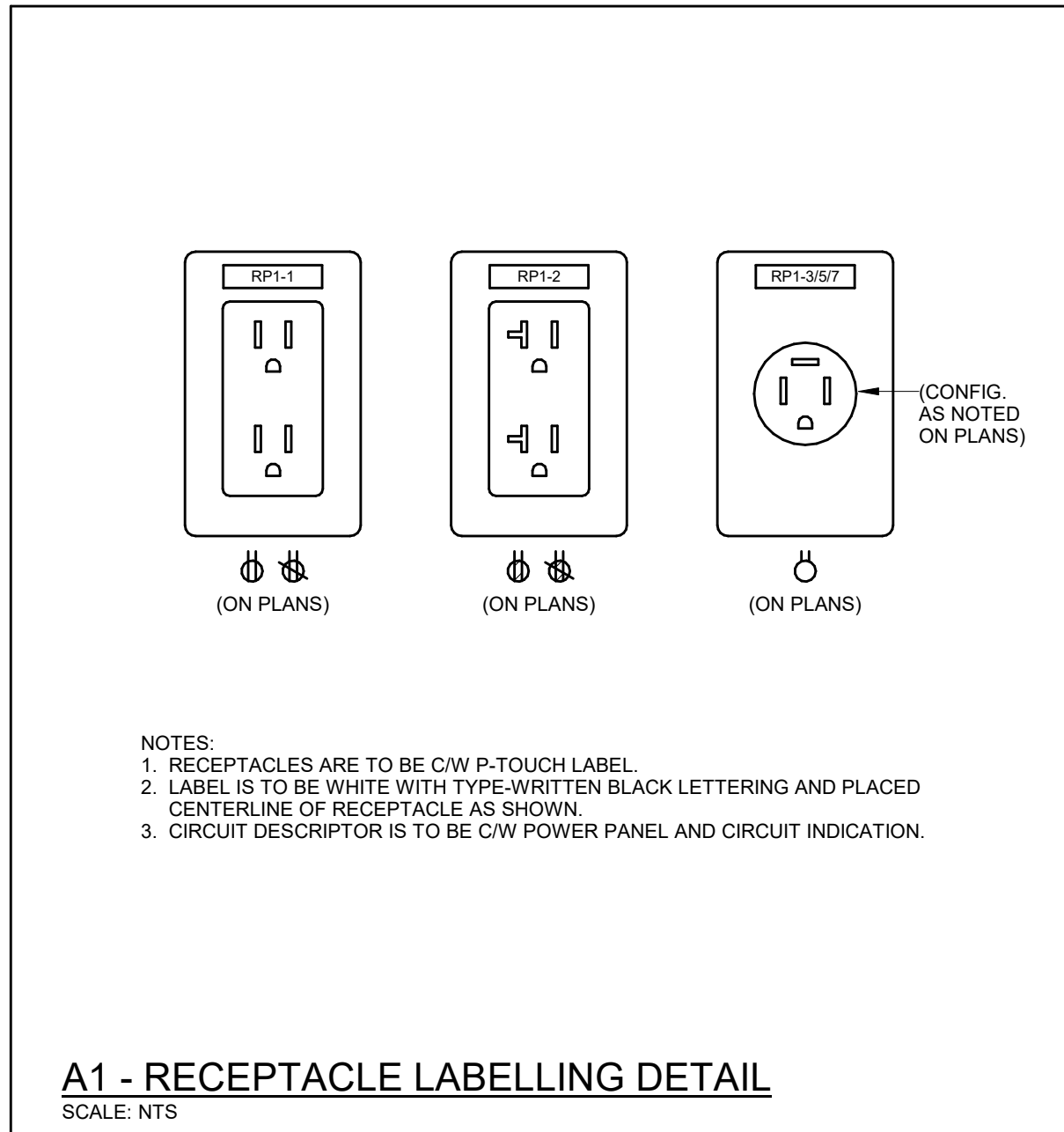
MILTON DISTRICT SCHOOL BOARD
1345 TRUDEAU DRIVE
MILTON, ON L7R 5Z2
TEL: (905) 335-3683
FAX: (905) 335-3682

SITE PLAN & LEGEND

HOSSACK & ASSOCIATES ARCHITECTS

15 Northland Road
Windsor, ON N9A 1Y8
Phone: 519-750-0254
Mobile: 519-750-0254
Project Number: 2401

DEI Consulting Engineers
SCALE: As Indicated
PROJECT: 22124
DATE: 26-01-13
DRAWN: CT
CHECKED: DM
PRINT DATE: 2026-02-03 15:47 PM
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NO.	DESCRIPTION	DATE
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2	ISSUED FOR 100% COORDINATION	2026-01-15
1	ISSUED FOR PERMIT	2026-03-21
NO.	DESCRIPTION	DATE
3	ISSUED FOR TENDER	2026-02-03
2	ISSUED FOR 100% COORDINATION	2026-01-15
1	ISSUED FOR PERMIT	2026-03-21

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Professional Engineers
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Number: 150230176
Licence: Design, design, reporting and specifications for all building electrical systems, site surveying and review of systems for their systems in new and renovation construction.
Association of Professional Engineers of Ontario

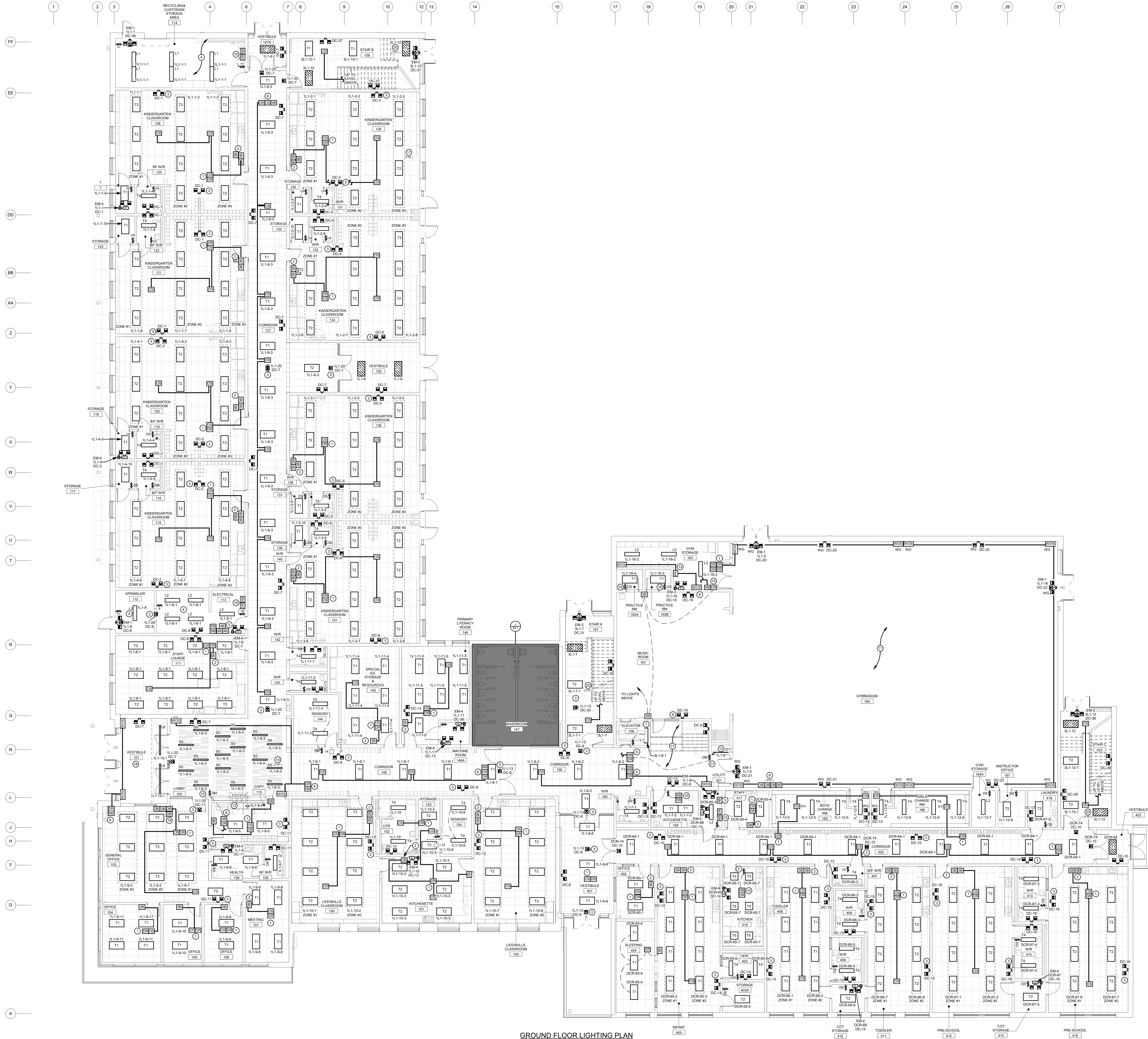
MILTON #13 PUBLIC SCHOOL
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PART OF LOT 6, CONCESSION 5
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MILTON DISTRICT SCHOOL BOARD
1100 SINGLTON EDUCATION CENTRE
BURLINGTON, ON L7R 5Z2
TEL: (905) 335-3683
FAX: (905) 335-8682

ELECTRICAL BUILDING DETAILS

HOSSACK & ASSOCIATES ARCHITECTS
15 Northland Road
Windsor, ON N9A 1Y8
Phone: 519-253-0555
Mobile: 519-253-0555
Project Number: 22-013

DEI Consulting Engineers
MECHANICAL ELECTRICAL AQUATIC
SCALE: As Indicated
PROJECT: 22124
DATE: 26-01-13
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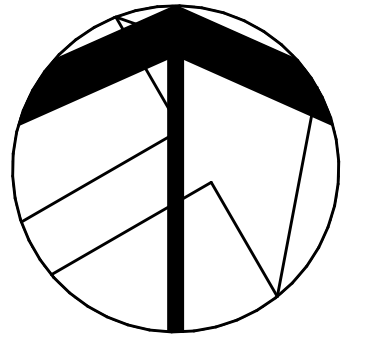
GROUND FLOOR LIGHTING PLAN
SCALE: 1:100

- ### GENERAL NOTES - LIGHTING
- EMERGENCY BATTERY UNITS ARE TO BE CONNECTED TO UNINTERRUPTED SIDE OF LOCAL LIGHTING CIRCUIT.
 - REFER TO LIGHT FIXTURE SCHEDULE ON DRAWING E001 FOR ALL LIGHT FIXTURE DETAILS AND FURTHER REQUIREMENTS.
 - REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND MOUNTING HEIGHTS FOR ALL LIGHT FIXTURES.
 - COORDINATE INSTALLATION OF LIGHT FIXTURES WITH MECHANICAL EQUIPMENT, SPRINKLERS, PIPING, DUCTWORK AND ACQUISIT. BL. LIGHT FIXTURES TO BE LOCATED NOT TO BE ABOVE MECHANICAL EQUIPMENT TO IMPEDE THE LIGHTING OF WALKWAY AREAS.
 - LOCATE AND POSITION EXIST. SIGNS SUCH THAT THEY DO NOT INTERFERE WITH ADJACENT EXIST. SIGNS AND EMERGENCY LIGHTING COVERAGE.
 - CONTRACTOR TO ENSURE THAT REFLECTED CEILING PLANS ARE COORDINATED AGAINST ALL CEILING MOUNTED FIRE ALARM DEVICES, LIGHTING FIXTURES, OCCUPANCY SENSOR & CONTROL DEVICES, MECHANICAL EQUIPMENT AND OTHER CEILING MOUNTED DEVICES SHOWN ON PLANS IN SUCH A WAY THAT THERE IS NO OVERLAP OF DEVICES WITHIN SAME CEILING SPACE.
- ### SPECIFIC NOTES
- INDICATES DIGITAL ROOM CONTROLLER RELAY PACK INSTALLED WITHIN ACCESSIBLE CEILING SPACE FOR CONTROL OF NOTED MOTION SENSORS; REFER TO LIGHTING CONTROL DETAILS.
 - INDICATES DEVICES TO BE MOUNTED IN PRE-FABRICATED PANEL; REFER TO DETAIL NET 3.
 - INDICATED DEVICES SHALL BE CEILING MOUNTED; PROVIDE ADEQUATE SUPPORT.
 - LIGHT FIXTURES IN ROOM INDICATED ARE TO BE SUSPENDED ON CHAIN TO 304mm; COORDINATE WITH MECHANICAL SERVICES TO MAINTAIN MAXIMUM HEADROOM.
 - INDICATES LEVEL 1 MASTER MAINTENANCE LIGHTING CONTROL BUTTON STATION.
 - INDICATES DIGITAL ROOM CONTROLLER RELAY PACK AND ASSOCIATED NETWORK BRIDGE INSTALLED WITHIN ACCESSIBLE CEILING SPACE FOR CONTROL OF NOTED MOTION SENSORS; REFER TO LIGHTING CONTROL DETAILS.
 - INDICATED LIGHT FIXTURE TO BE MOUNTED IN ELEVATOR PIT; COORDINATE EXACT LOCATION TO MOUNT LIGHT FIXTURE ON SITE WITH ELEVATOR CONTRACTOR.
 - INDICATED FUTURE TO BE BLACK IN COLOUR.
 - MOUNT INDICATED DEVICES IN BLOCK RECESS; REFER TO DETAIL NET 3.
 - INDICATES DIGITAL ROOM CONTROLLER AND ASSOCIATED NETWORK BRIDGE AHEAD OF LOCAL SERVICE ROOM; TUGGLE SWITCHES AS SHOWN; REFER TO LIGHTING CONTROL DETAIL NET 3.
 - LIGHTING FIXTURES WITHIN THIS AREA ARE SHOWN ON THE LEVEL ABOVE.
 - NOTED FUTURE IS TO BE INSTALLED IN DISPLAY CASE; MILLWORK COORDINATE EXACT REQUIREMENTS WITH MILLWORK TRADE PRIOR TO ROUGH-IN; REFER TO DETAIL NET 3.
 - INDICATES POWER PACK INSTALLED WITH ACCESSIBLE CEILING SPACE FOR CONTROL OF NOTED MOTION SENSORS.
 - NOTED LIGHT FIXTURES ARE TO BE SUSPENDED FROM ACUSTIC BLADE CEILING; COORDINATE ON SITE EXACT LOCATION AND SUSPENSION HEIGHT WITH ARCHITECTURAL DRAWINGS AND MECHANICAL EQUIPMENT PRIOR TO INSTALLATION.
 - PROVIDE 3 BUTTON DIGITAL DIMMING WALL STATION FOR DISPLAY CASE LIGHTING; CONNECT TO LOCAL DIGITAL ROOM CONTROLLER AND NETWORK BRIDGE LOCATED IN COPY RM 110.
 - PROVIDE ELECTRICAL BOX EXTENDERS AS REQUIRED FOR DEVICES INDICATED TO BUTT WALL FINISH; ACUSTIC INSULATION COORDINATE REQUIREMENTS WITH GENERAL CONTRACTOR PRIOR TO ROUGH-IN.
 - INDICATES CONTROL ZONE GROUPS OF LIGHT FIXTURES WITHIN EACH AREA; REFER TO LIGHTING CONTROL DETAILS AND SEQUENCE OF OPERATION.
 - REFER TO THIRD FLOOR LIGHTING PLAN ON DRAWING E2.3 FOR LIGHT FIXTURES TO BE INSTALLED IN VESTIBULE 101; EXACT LAYOUT AND SUSPENSION HEIGHT OF LIGHT FIXTURES SHALL BE COORDINATED WITH THE ARCHITECT AND OWNER ON SITE PRIOR TO INSTALLATION.
 - INDICATES LIGHTING CONTROL STATION FOR DISPLAY CASES.
 - HATCHED FUTURE IN STAIRWELL INDICATES FUTURE ON TIME OF DAY CONTROLS ONLY AND NOT VALUABLE OCCUPANCY SENSORS; REFER TO LIGHTING CONTROL DETAILS AND SEQUENCE OF OPERATION.
 - INDICATED DIMMER SWITCH TO BE LOCAL CONTROL DEVICE FOR DISPLAY CASE LIGHTING; DISPLAY CASE LIGHTING BRANCH CIRCUIT TO BE CONTROLLED UPSTREAM BY DIGITAL RELAY AND ASSOCIATED NETWORK BRIDGE; REFER TO LIGHTING CONTROL DETAILS AND LIGHTING CONTROLS SEQUENCE OF OPERATION.

NOTES: CIRCUIT LABELS

PROVIDE P-TOUCH LABELS INDICATING PANEL AND CIRCUIT LABEL ON ALL LIGHT SWITCH, LIGHTING CONTROL STATION AND RECEPTACLE DEVICE FACILATES. INCLUDE SWITCH LEG INDICATION FOR LIGHTING CONTROLS AND SWITCHES.

REFER TO SPECIFICATIONS FOR FURTHER DETAILS AND REQUIREMENTS.



GENERAL NOTES - LIGHTING

- EMERGENCY BATTERY UNITS ARE TO BE CONNECTED TO UNINTERRUPTED SIDE OF LOCAL LIGHTING CIRCUIT.
- REFER TO LIGHT FIXTURE SCHEDULE ON DRAWING E001 FOR ALL LIGHT FIXTURE DETAILS AND FURTHER REQUIREMENTS.
- REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND MOUNTING HEIGHTS FOR ALL LIGHT FIXTURES.
- COORDINATE INSTALLATION OF LIGHT FIXTURES WITH MECHANICAL EQUIPMENT, SPRINKLERS, PIPING, DUCTWORK AND ACQUISIT. BL. LIGHT FIXTURES TO BE LOCATED NOT TO BE ABOVE MECHANICAL EQUIPMENT TO IMPEDE THE LIGHTING OF WALKWAY AREAS.
- LOCATE AND POSITION EXIST. SIGNS SUCH THAT THEY DO NOT INTERFERE WITH ADJACENT EXIST. SIGNS AND EMERGENCY LIGHTING COVERAGE.
- CONTRACTOR TO ENSURE THAT REFLECTED CEILING PLANS ARE COORDINATED AGAINST ALL CEILING MOUNTED FIRE ALARM DEVICES, LIGHTING FIXTURES, OCCUPANCY SENSOR & CONTROL DEVICES, MECHANICAL EQUIPMENT AND OTHER CEILING MOUNTED DEVICES SHOWN ON PLANS IN SUCH A WAY THAT THERE IS NO OVERLAP OF DEVICES WITHIN SAME CEILING SPACE.

SPECIFIC NOTES

- INDICATES DIGITAL ROOM CONTROLLER RELAY PACK INSTALLED WITHIN ACCESSIBLE CEILING SPACE FOR CONTROL OF NOTED MOTION SENSORS; REFER TO LIGHTING CONTROL DETAILS.
- INDICATES DEVICES TO BE MOUNTED IN PRE-FABRICATED PANEL; REFER TO DETAIL NET 3.
- INDICATED DEVICES SHALL BE CEILING MOUNTED; PROVIDE ADEQUATE SUPPORT.
- LIGHT FIXTURES IN ROOM INDICATED ARE TO BE SUSPENDED ON CHAIN TO 304mm; COORDINATE WITH MECHANICAL SERVICES TO MAINTAIN MAXIMUM HEADROOM.
- INDICATES LEVEL 1 MASTER MAINTENANCE LIGHTING CONTROL BUTTON STATION.
- INDICATES DIGITAL ROOM CONTROLLER RELAY PACK AND ASSOCIATED NETWORK BRIDGE INSTALLED WITHIN ACCESSIBLE CEILING SPACE FOR CONTROL OF NOTED MOTION SENSORS; REFER TO LIGHTING CONTROL DETAILS.
- INDICATED LIGHT FIXTURE TO BE MOUNTED IN ELEVATOR PIT; COORDINATE EXACT LOCATION TO MOUNT LIGHT FIXTURE ON SITE WITH ELEVATOR CONTRACTOR.
- INDICATED FUTURE TO BE BLACK IN COLOUR.
- MOUNT INDICATED DEVICES IN BLOCK RECESS; REFER TO DETAIL NET 3.
- INDICATES DIGITAL ROOM CONTROLLER AND ASSOCIATED NETWORK BRIDGE AHEAD OF LOCAL SERVICE ROOM; TUGGLE SWITCHES AS SHOWN; REFER TO LIGHTING CONTROL DETAIL NET 3.
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- INDICATES CONTROL ZONE GROUPS OF LIGHT FIXTURES WITHIN EACH AREA; REFER TO LIGHTING CONTROL DETAILS AND SEQUENCE OF OPERATION.
- REFER TO THIRD FLOOR LIGHTING PLAN ON DRAWING E2.3 FOR LIGHT FIXTURES TO BE INSTALLED IN VESTIBULE 101; EXACT LAYOUT AND SUSPENSION HEIGHT OF LIGHT FIXTURES SHALL BE COORDINATED WITH THE ARCHITECT AND OWNER ON SITE PRIOR TO INSTALLATION.
- INDICATES LIGHTING CONTROL STATION FOR DISPLAY CASES.
- HATCHED FUTURE IN STAIRWELL INDICATES FUTURE ON TIME OF DAY CONTROLS ONLY AND NOT VALUABLE OCCUPANCY SENSORS; REFER TO LIGHTING CONTROL DETAILS AND SEQUENCE OF OPERATION.
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NOTES: CIRCUIT LABELS

PROVIDE P-TOUCH LABELS INDICATING PANEL AND CIRCUIT LABEL ON ALL LIGHT SWITCH, LIGHTING CONTROL STATION AND RECEPTACLE DEVICE FACILATES. INCLUDE SWITCH LEG INDICATION FOR LIGHTING CONTROLS AND SWITCHES.

REFER TO SPECIFICATIONS FOR FURTHER DETAILS AND REQUIREMENTS.

NO.	DESCRIPTION	DATE
3	ISSUED FOR TENDER	2026.02.03
2	ISSUED FOR 100% COORDINATION	2026.01.16
1	ISSUED FOR PERMIT	2025.03.21
NO.	DESCRIPTION	DATE

The contractor shall verify all dimensions and report all errors and discrepancies to the Consultant before commencement of the work.

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The drawings do not indicate all off-site fitting and accessories which may be required. Provide the same to meet the required conditions. Drawings and specifications, etc., prepared and issued by the consultant are the property of the consultant and must be returned at the completion of the project. These documents are not to be duplicated or copied without the consent of the Consultant.

Do not scale the drawings.

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Professional Engineer
Limited Engineering Licensee
Name: D.G. MCCONKEY
Number: 100230476
Licence: Design, report, and specifications for all building electrical systems, site surveying and review of systems for their safety and reliability.

Association of Professional Engineers of Ontario

MILTON #13 PUBLIC SCHOOL

1345 TRUDEAU DRIVE
MILTON, ON

LEGAL DESCRIPTION

PART OF LOT 6, CONFESSION 5
TOWN OF MILTON, REGION OF
HALTON



MILTON DISTRICT SCHOOL BOARD
140 KINGSTON ROAD
BURLINGTON, ON L7R 2C2
TEL: (905) 335-3883
FAX: (905) 335-8602

GROUND FLOOR LIGHTING PLAN



HOSSACK & ASSOCIATES ARCHITECTS

15 Northland Road
Mississauga, Ontario L5L 2A6
Tel: (905) 882-8888 Fax: (905) 882-8888

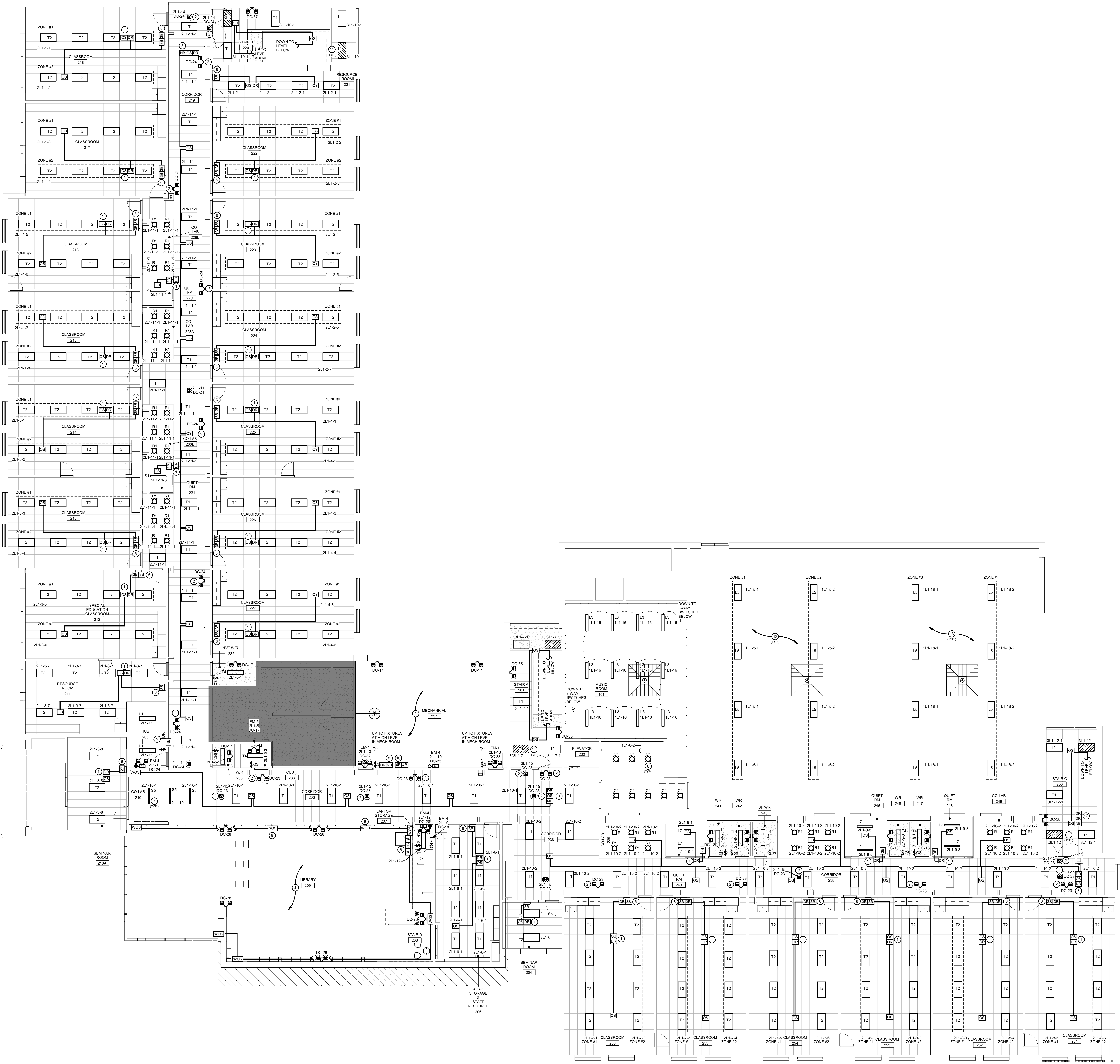


DEI Consulting Engineers

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DRAWN: CT
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SECOND FLOOR LIGHTING PLAN
SCALE: 1:100

GENERAL NOTES - LIGHTING

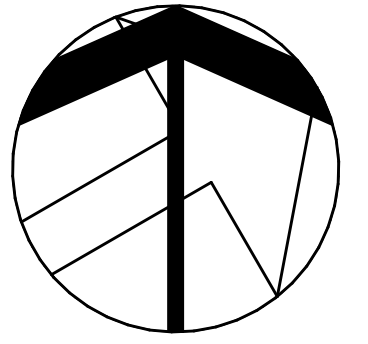
- EMERGENCY BATTERY UNITS ARE TO BE CONNECTED TO UNINTERRUPTED SIDE OF LOCAL LIGHTING CIRCUIT
- REFER TO LIGHT FIXTURE SCHEDULE ON DRAWING E801 FOR ALL LIGHT FIXTURE DETAILS AND FURTHER REQUIREMENTS
- REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND MOUNTING HEIGHTS FOR ALL LIGHT FIXTURES
- COORDINATE INSTALLATION OF LIGHT FIXTURES WITH MECHANICAL EQUIPMENT, SPRINKLERS, PIPING, DUCTWORK AND ACoustic BLADES. LIGHT FIXTURES TO BE LOCATED NOT TO BE ABOVE MECHANICAL EQUIPMENT TO IMPEDE THE LIGHTING OF WALKWAY AREAS
- LOCATE AND POSITION EXIT SIGNS SUCH THAT THEY DO NOT INTERFERE WITH ADJACENT EXIT SIGNS AND EMERGENCY LIGHTING COVERAGE
- CONTRACTOR TO ENSURE THAT REFLECTED CEILING PLANE ARE COORDINATED AGAINST ALL CEILING MOUNTED FIRE ALARM DEVICES, LIGHTING FIXTURES, OCCUPANCY SENSOR & CONTROL DEVICES, MECHANICAL EQUIPMENT AND OTHER CEILING MOUNTED DEVICES SHOWN ON PLANS IN SUCH A WAY THAT THERE IS NO OVERLAP OF DEVICES WITHIN SAME CEILING SPACE

SPECIFIC NOTES

- INDICATES DIGITAL ROOM CONTROLLER RELAY PACK INSTALLED WITHIN ACCESSIBLE CEILING SPACE FOR CONTROL OF NOTED MOTION SENSORS. REFER TO LIGHTING CONTROL DETAILS
- INDICATED DEVICE SHALL BE CEILING MOUNTED PROVIDE ADEQUATE SUPPORT
- INDICATES DIGITAL ROOM CONTROLLER RELAY PACK AND ASSOCIATED NETWORK BRIDGE INSTALLED WITHIN ACCESSIBLE CEILING SPACE FOR CONTROL OF NOTED MOTION SENSORS. REFER TO LIGHTING CONTROL DETAILS
- INDICATES DIGITAL ROOM CONTROLLER AND ASSOCIATED NETWORK BRIDGE AHEAD OF LOCAL SERVICE ROOM TOGGLE SWITCHES AS SHOWN. REFER TO LIGHTING CONTROL DETAIL BE2.3
- INDICATES DEVICES TO BE MOUNTED IN PRE-FABRICATED PANEL. REFER TO DETAIL NE1.3
- NOTED LIGHT FIXTURES ARE TO BE SUSPENDED FROM ACOUSTIC BLADE CEILING. COORDINATE ON-SITE EXACT LOCATION AND SUSPENSION HEIGHT WITH ARCHITECTURAL DRAWINGS AND MECHANICAL EQUIPMENT PRIOR TO INSTALLATION
- NOTED PENDANT LIGHT FIXTURES ARE TO BE SUSPENDED AT 2000mm AFF
- NOTED WALL MOUNTED OCCUPANCY SENSOR IS TO BE SURFACE MOUNTED TO COLUMN AT 2000mm AFF
- INDICATES LEVEL 2 MASTER MAINTENANCE LIGHTING CONTROL BUTTON STATION
- HATCHED FUTURE R/STAIRWELL INDICATES FUTURE ON TIME OF DAY CONTROL ONLY AND NOT VIA LOCAL OCCUPANCY SENSORS. REFER TO LIGHTING CONTROLS DETAILS AND SEQUENCE OF OPERATION
- INDICATES ADDITIONAL LIGHTING CONTROL RELAY PACK CONNECTED TO LOCAL NETWORK BRIDGE INSTALLED WITHIN ACCESSIBLE CEILING SPACE FOR SEPARATE CONTROL OF STAIRWELL TIME OF DAY CONTROLLED FIXTURES (HATCHED) PER NOTE 10. REFER TO DETAIL JE2.5
- FIXTURES IN THIS ROOM ARE TO BE FASTENED TO UNSTRUCTURED CHANNELS SPANNING ACROSS THE TOP OF THE BOTTOM CHORD OF JOISTS. COORDINATE EXACT LOCATION WITH MECHANICAL EQUIPMENT

NOTES: CIRCUIT LABELS

PROVIDE P-TOUCH LABELS INDICATING PANEL AND CIRCUIT LABEL ON ALL TIGHT SWITCH, LIGHTING CONTROL, STATION AND RECEPTACLE DEVICE FACEPLATES. INCLUDE SWITCH LEGS INDICATOR FOR LIGHTING CONTROLS AND SWITCHES. REFER TO SPECIFICATIONS FOR FURTHER DETAILS AND REQUIREMENTS.



Professional Engineers
Ontario
Limited Engineering Licensee
Name: D.G. MCCONKEY
Number: 10023076
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Association of Professional Engineers of Ontario

MILTON #13 PUBLIC SCHOOL
1345 TRUDEAU DRIVE
MILTON, ON

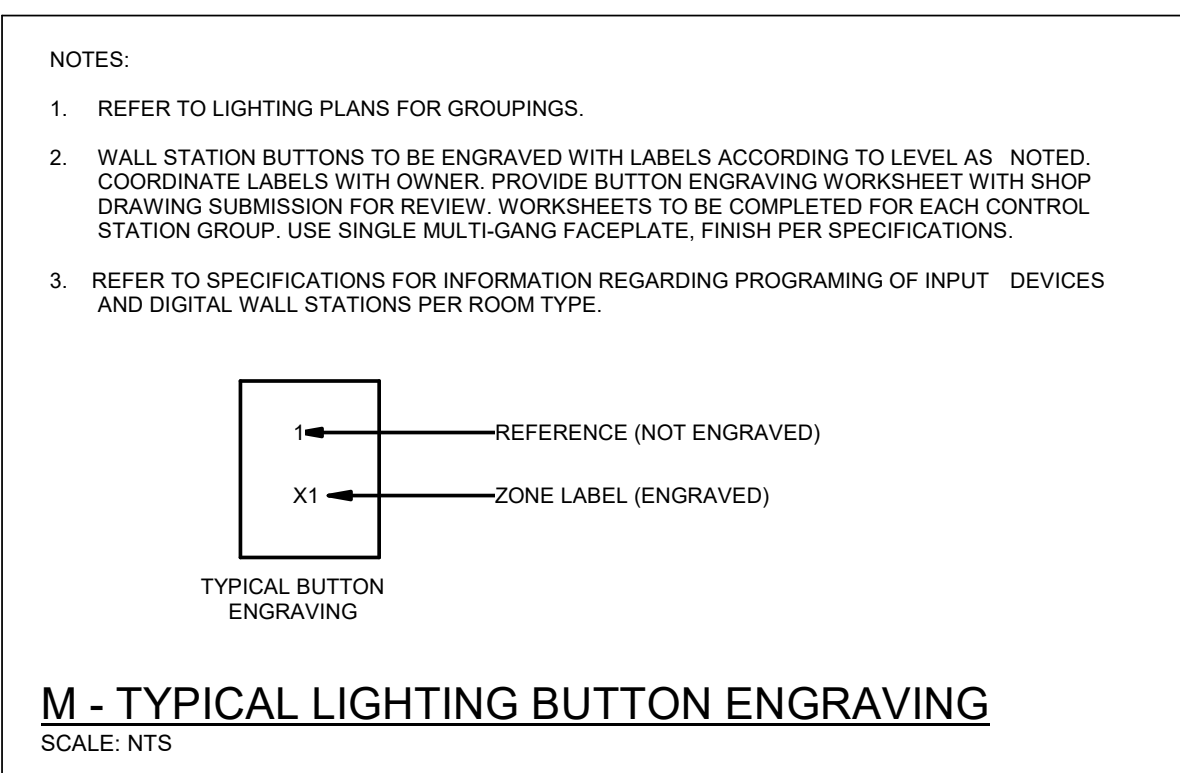
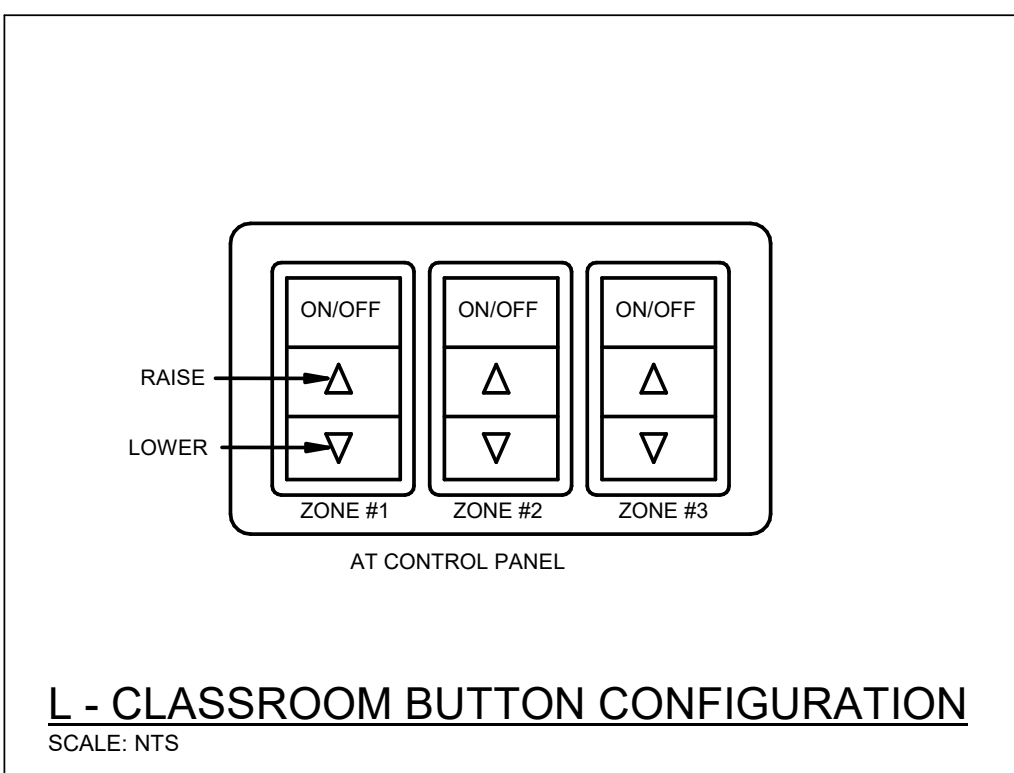
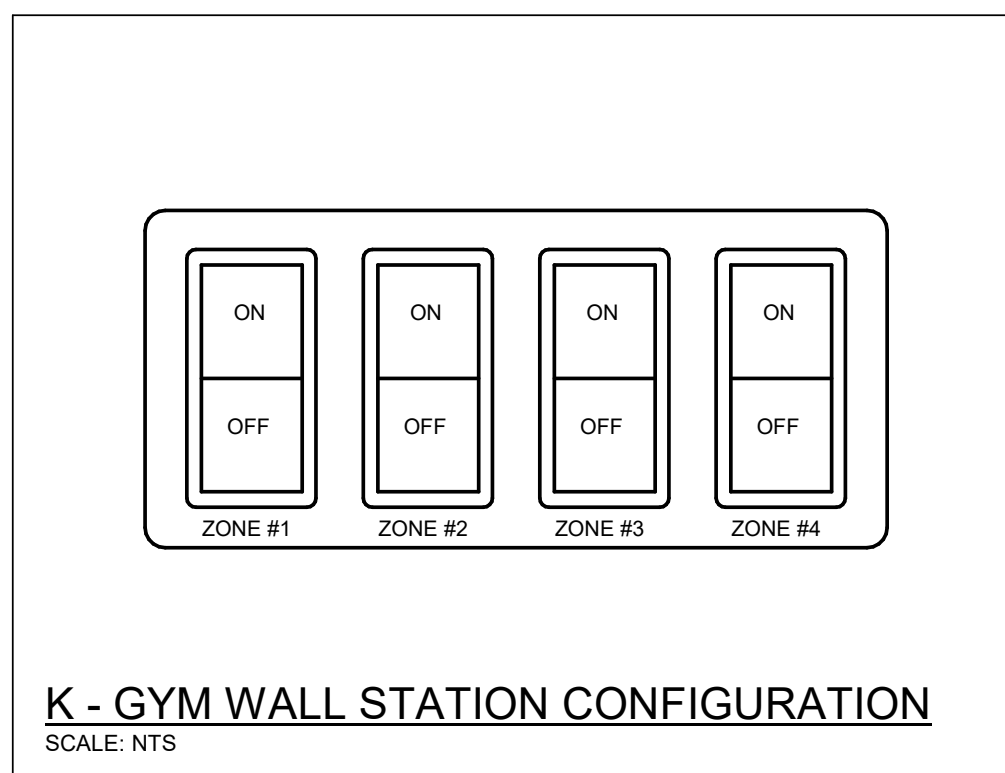
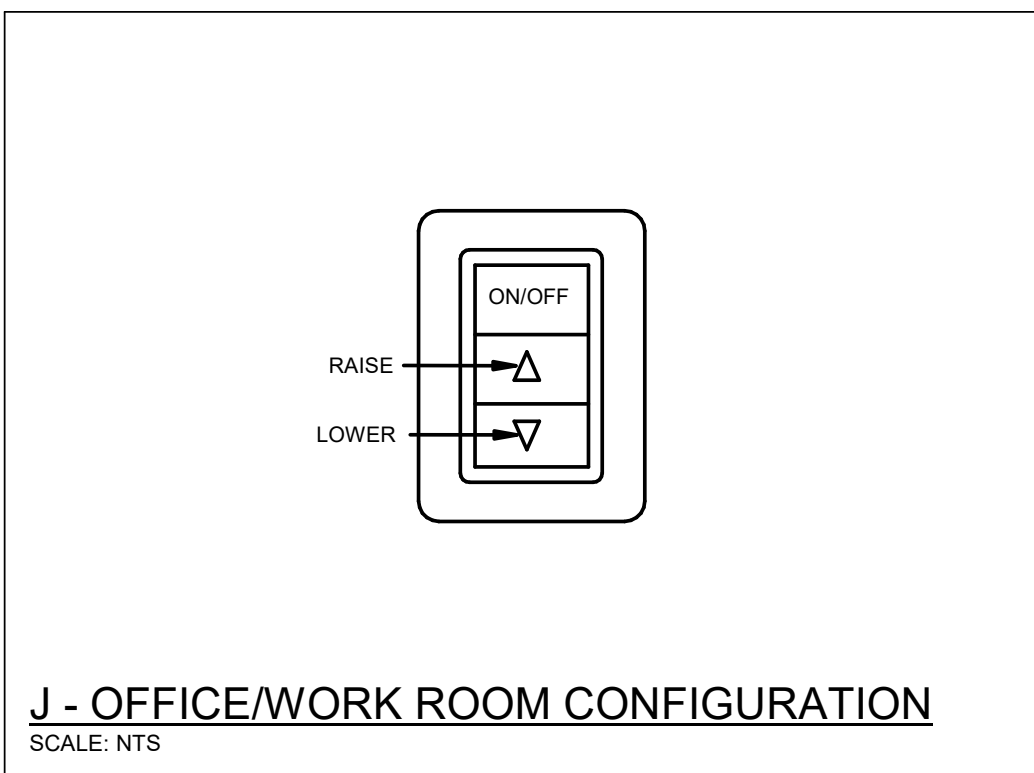
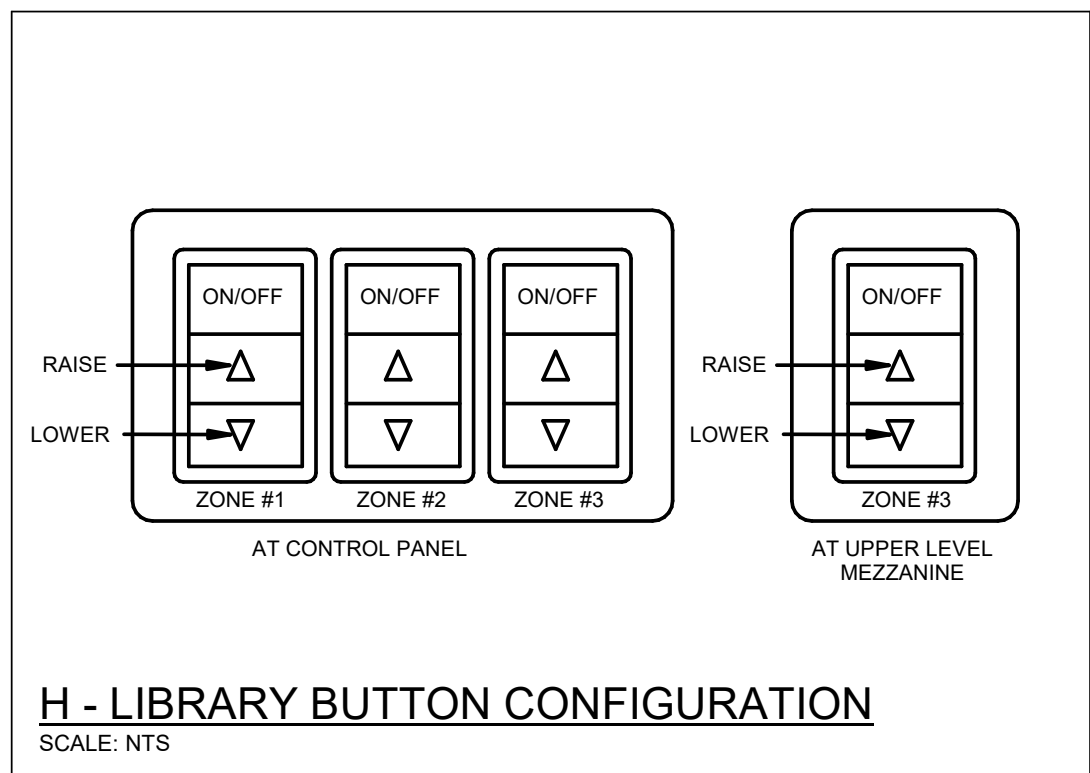
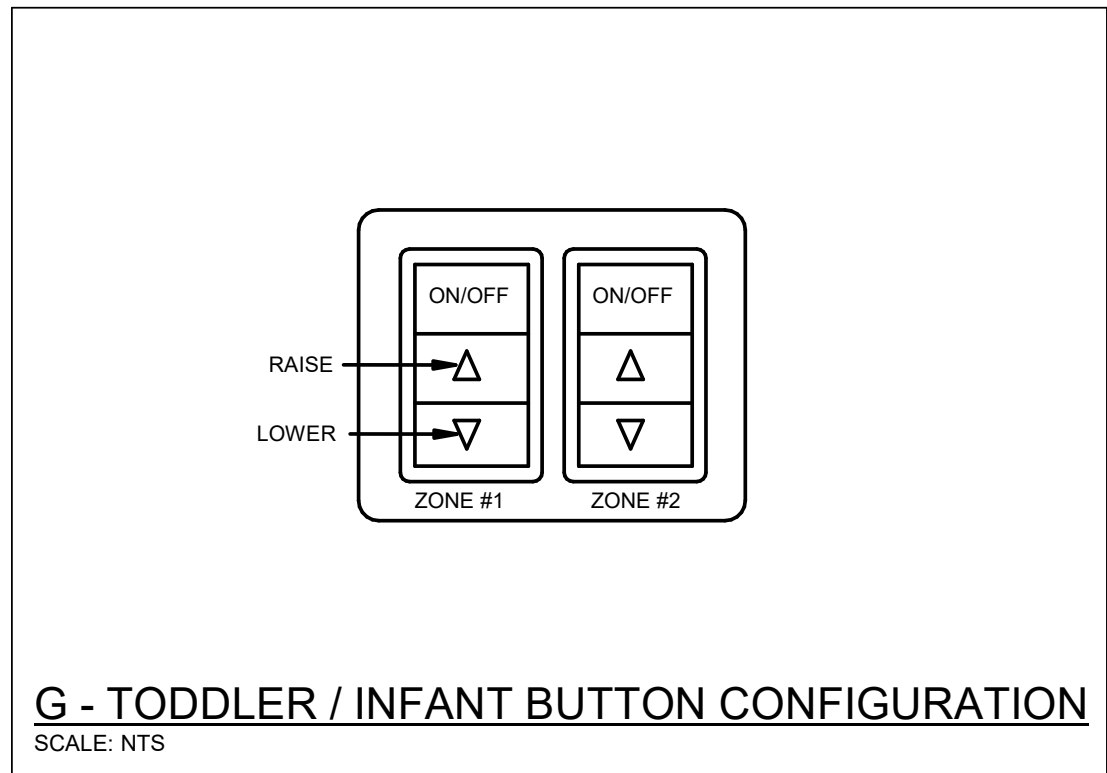
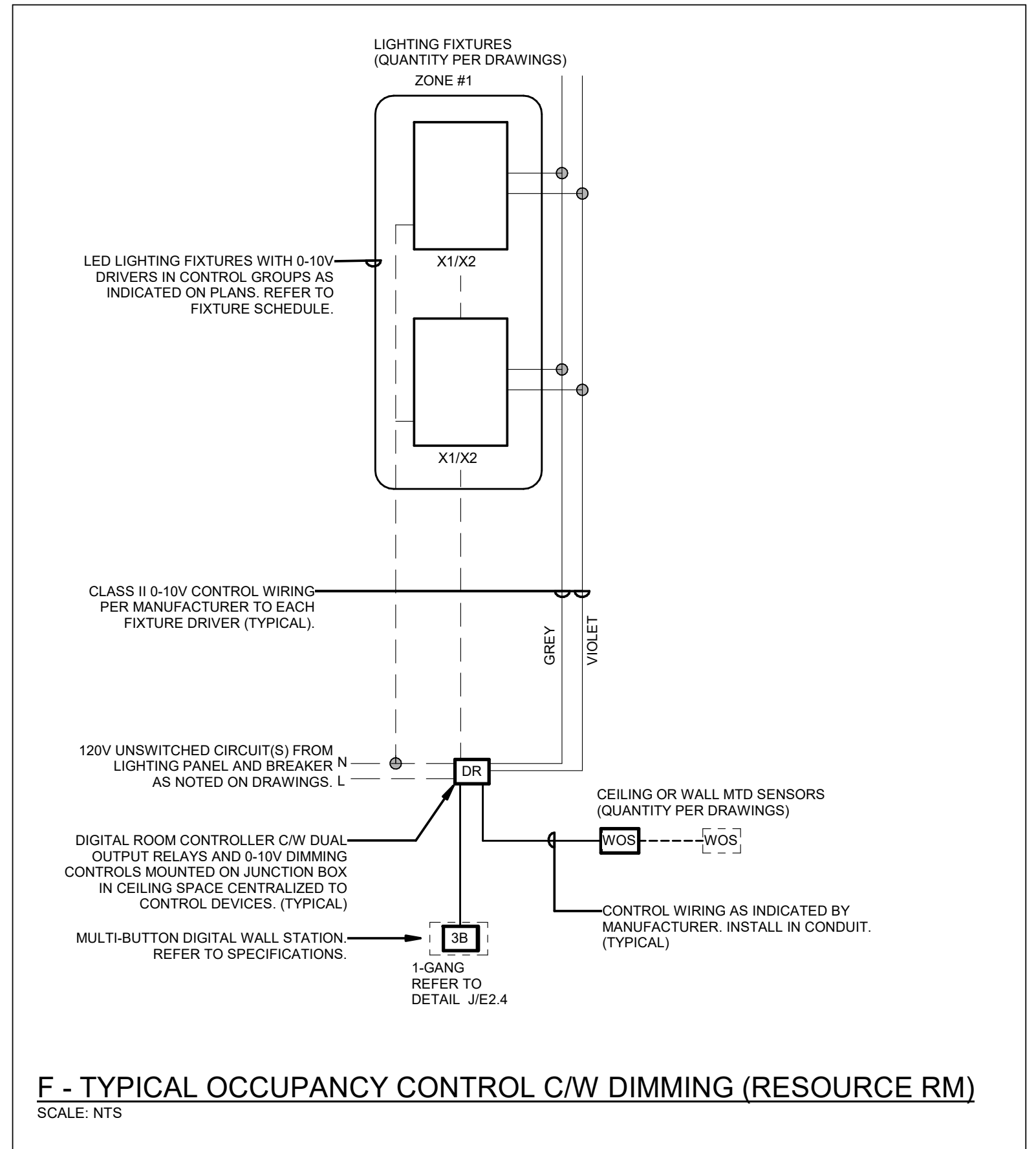
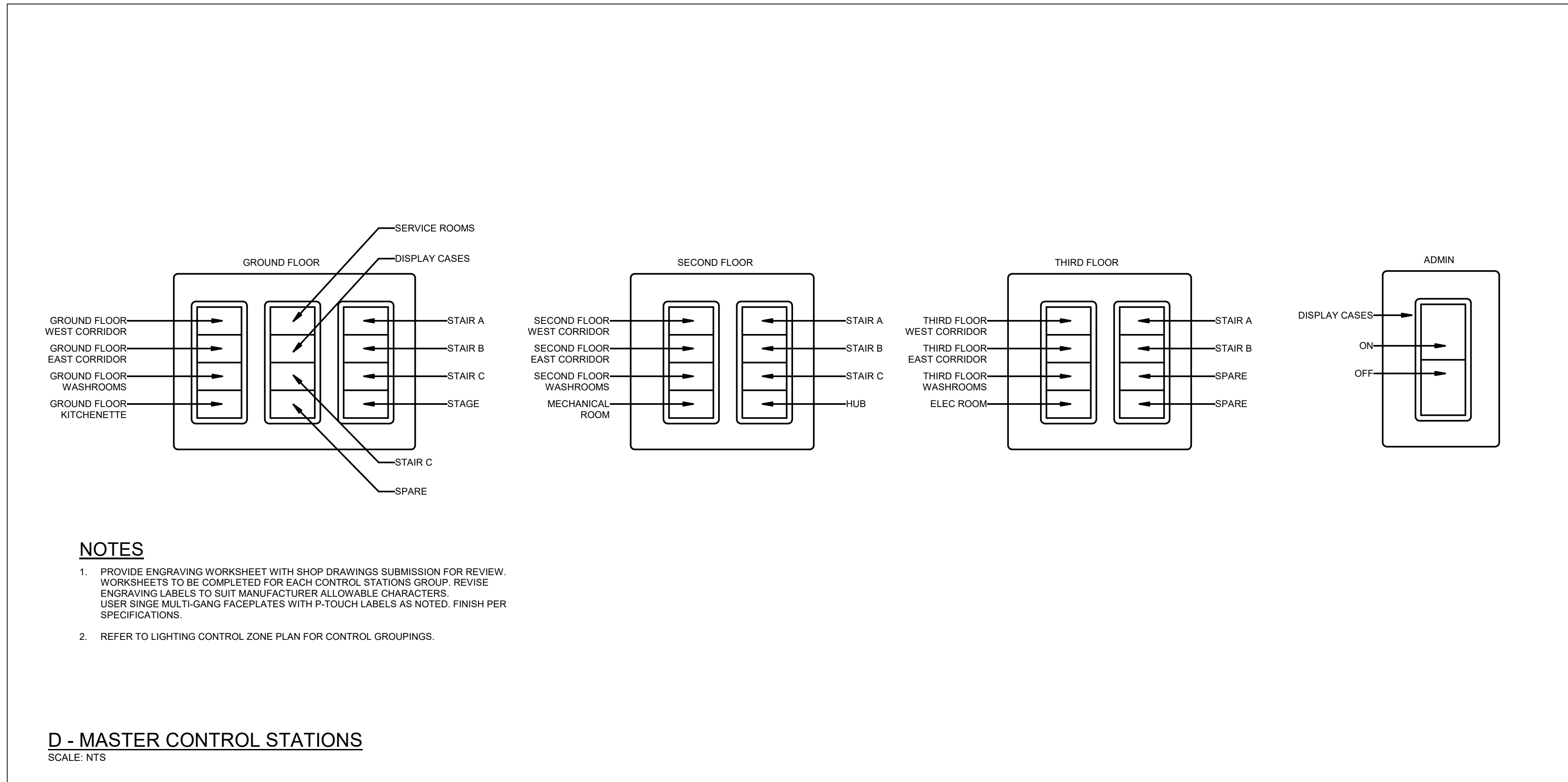
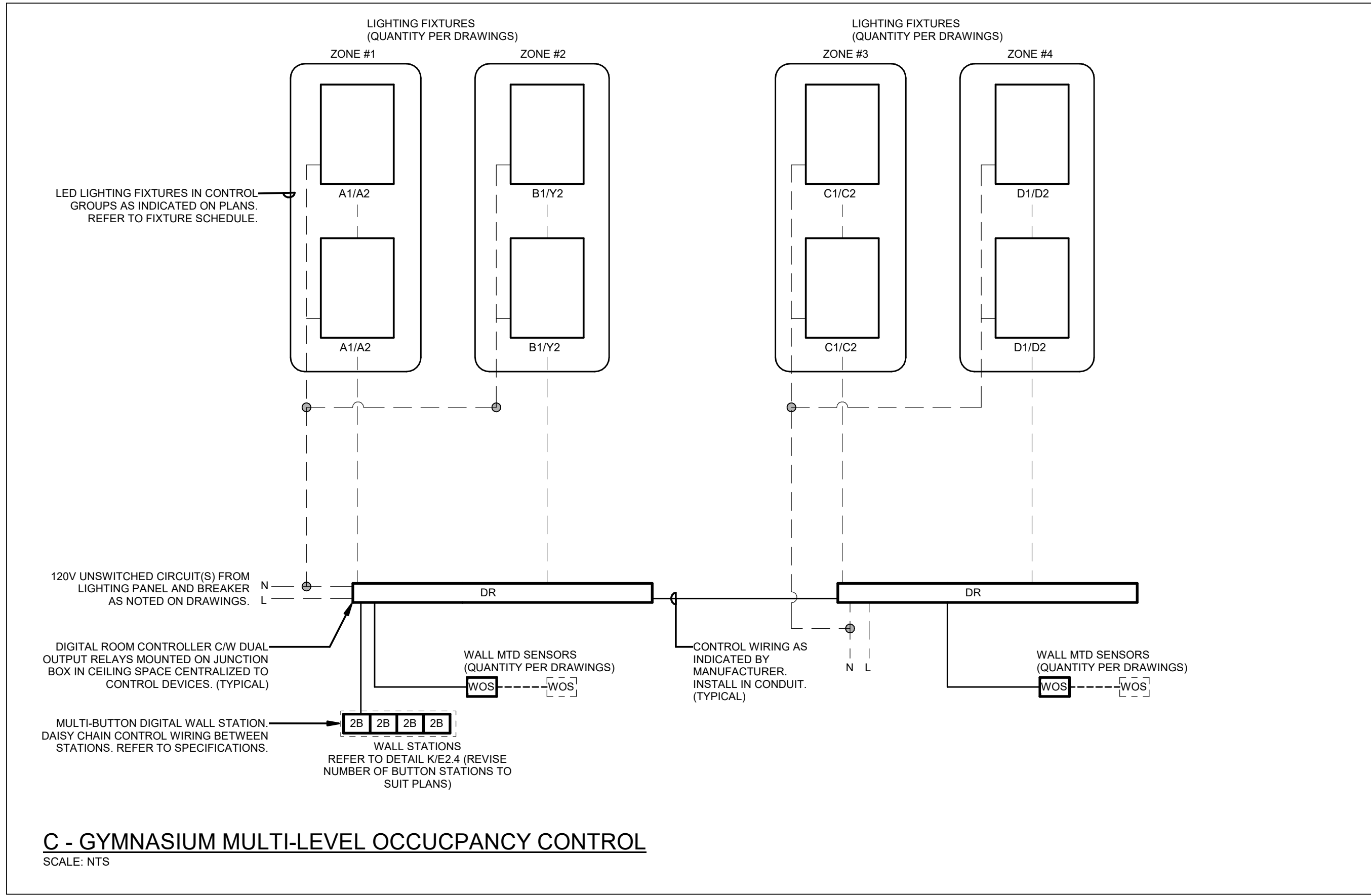
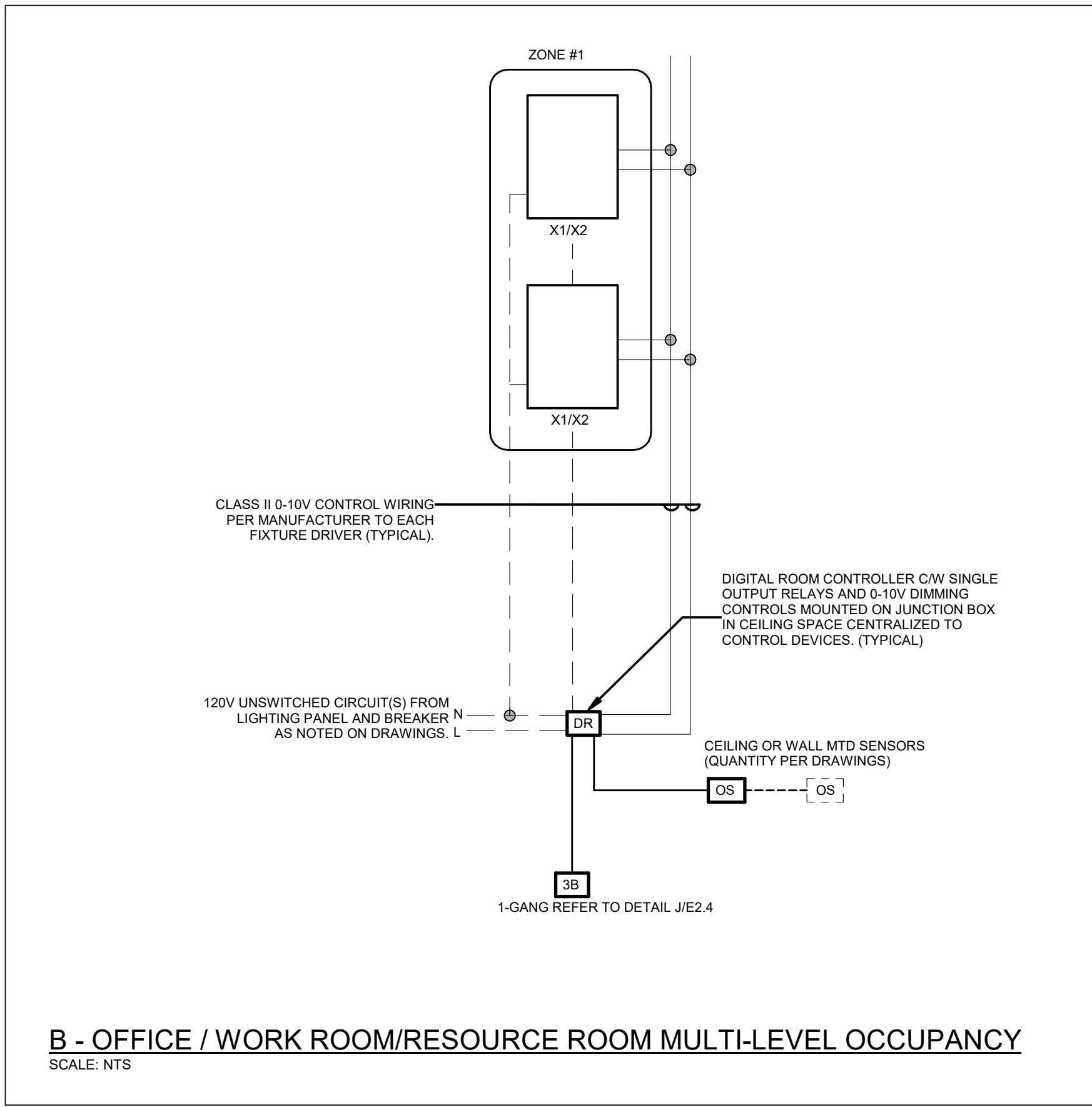
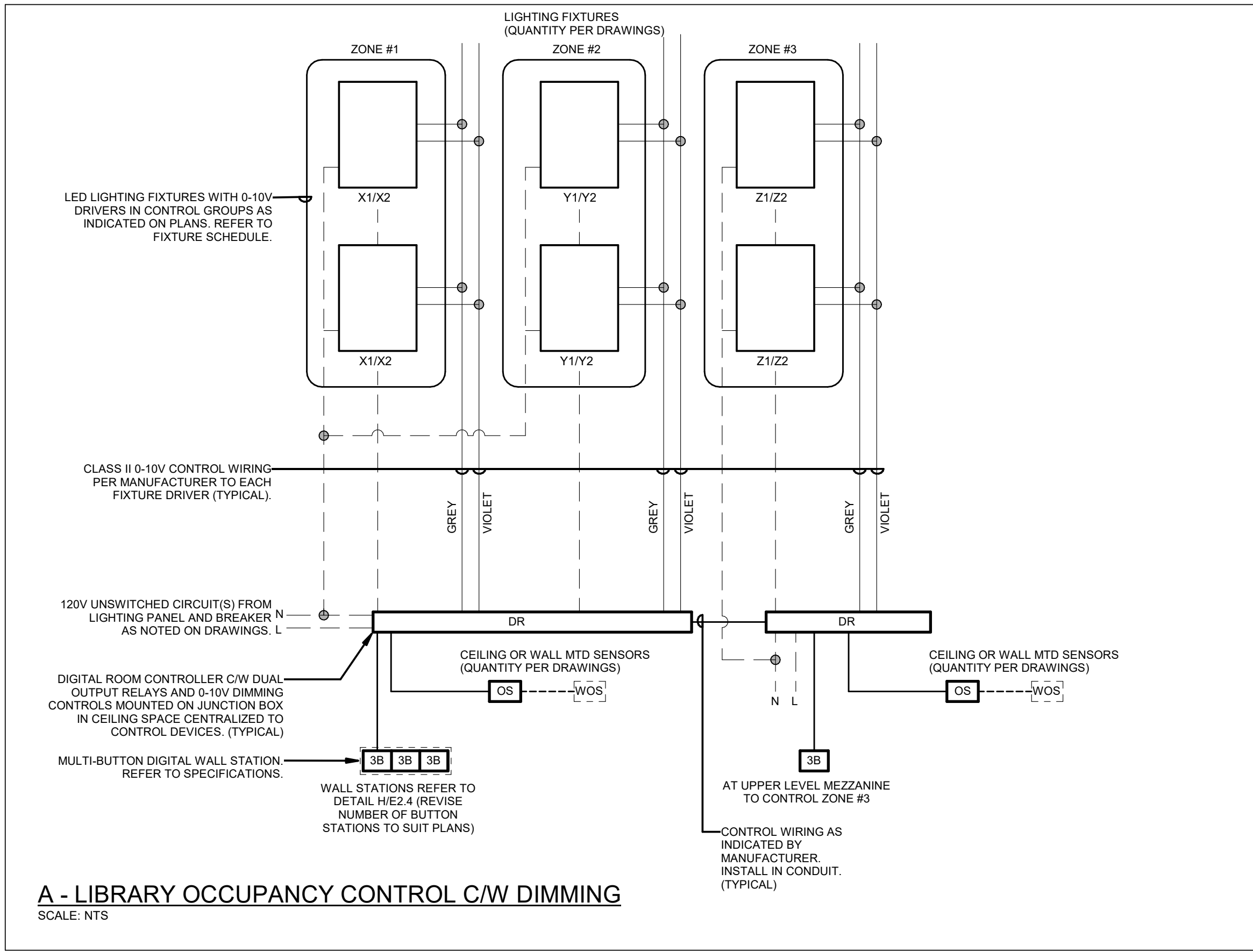
LEGAL DESCRIPTION
PART OF LOT 6, CONCESSION 5
TOWN OF MILTON, REGION OF HALTON

MILTON DISTRICT SCHOOL BOARD
1400 KINGSTON ROAD
BURLINGTON, ON L7R 2C2
TEL: (905) 335-3883
FAX: (905) 335-8602

SECOND FLOOR LIGHTING PLAN

HOSSACK & ASSOCIATES ARCHITECTS
15 Northland Road
Windsor, ON N9B 1Y8
Phone: (519) 253-0555
Mobile: (519) 253-0555
Project Number: 22124

DEI Consulting Engineers
MECHANICAL ELECTRICAL AQUATIC
SCALE: As Indicated
PROJECT: 22124
DATE: 20-01-13
DRAWN: CT
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2	ISSUED FOR 100% COORDINATION	2026.01.15
3	ISSUED FOR PERMIT	2026.03.21
NO.	DESCRIPTION	DATE
1	ISSUED FOR TENDER	2026.02.03
2	ISSUED FOR 100% COORDINATION	2026.01.15
3	ISSUED FOR PERMIT	2026.03.21

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MILTON #13 PUBLIC SCHOOL

1345 TRUDEAU DRIVE
MILTON, ON

LEGAL DESCRIPTION

PART OF LOT 6, CONCESSION 5
TOWN OF MILTON, REGION OF
HALTON

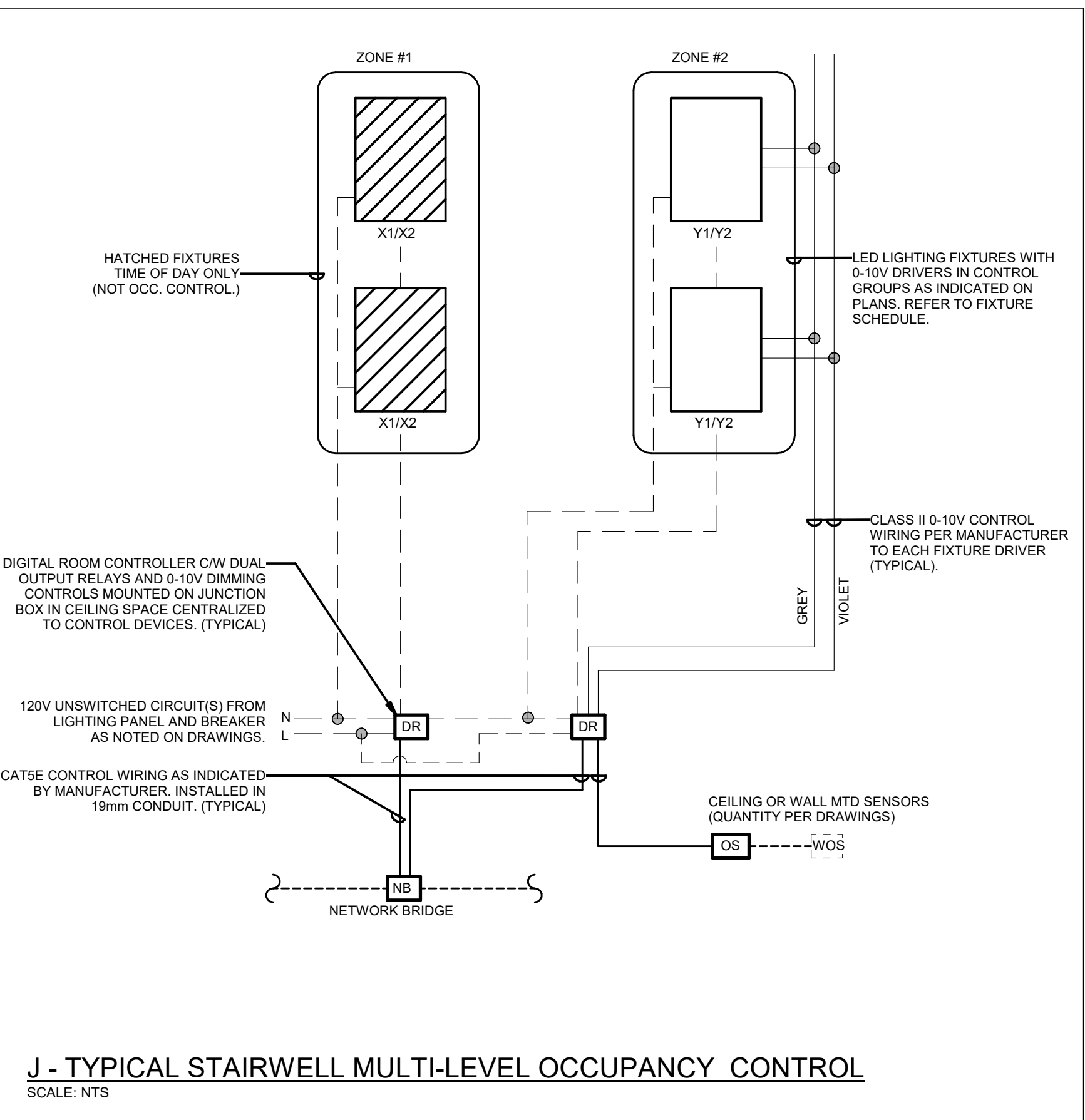
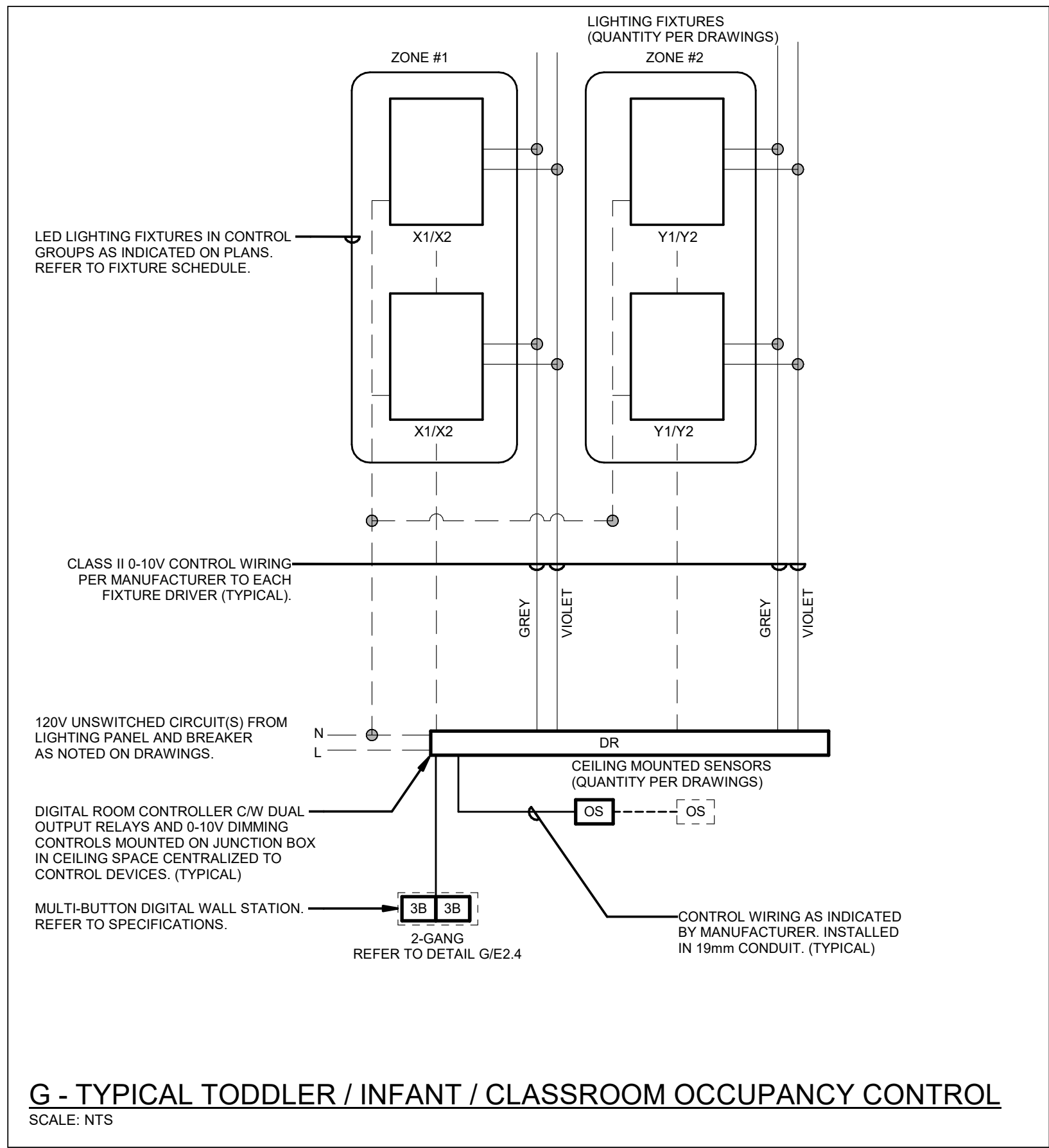
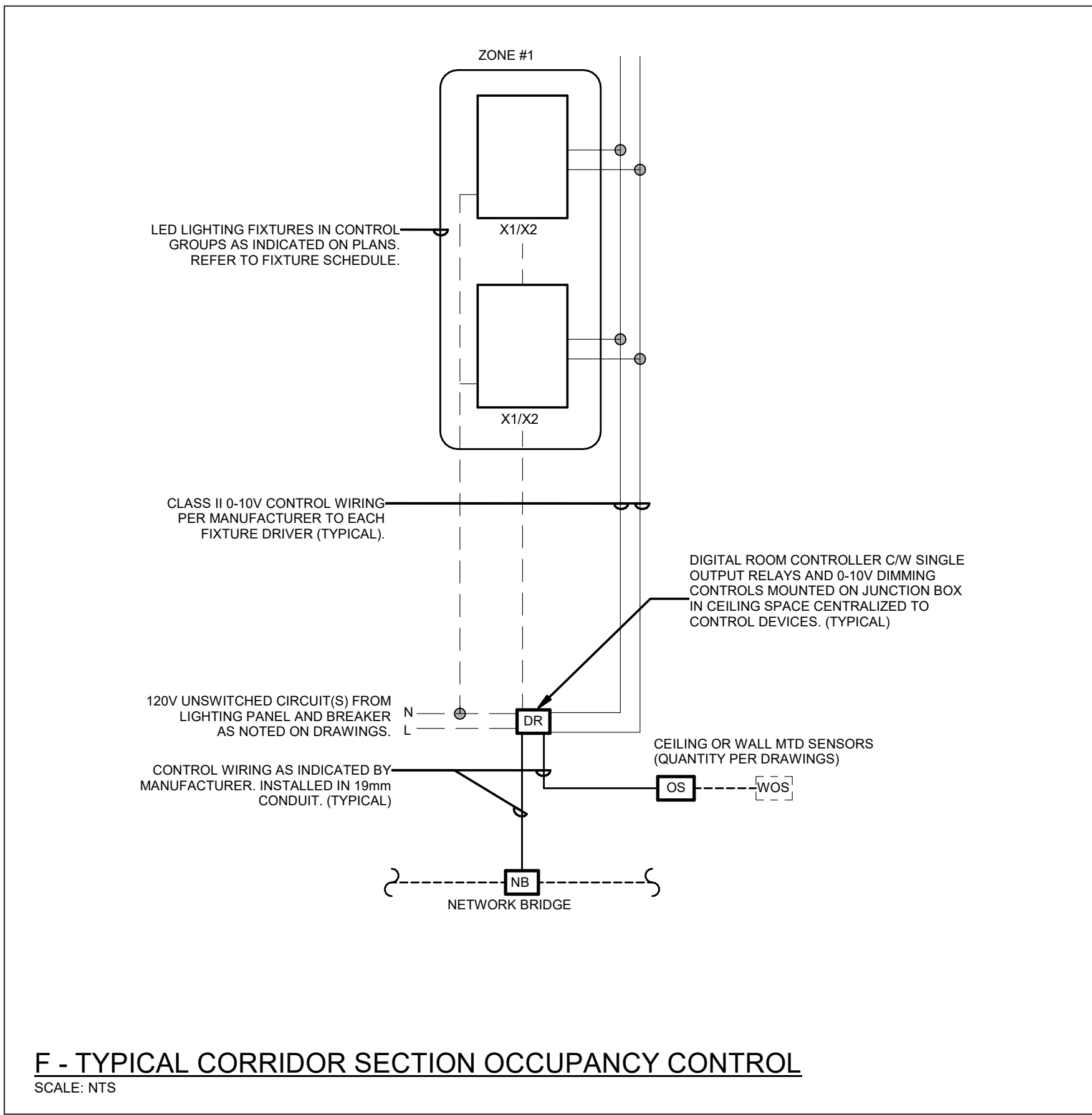
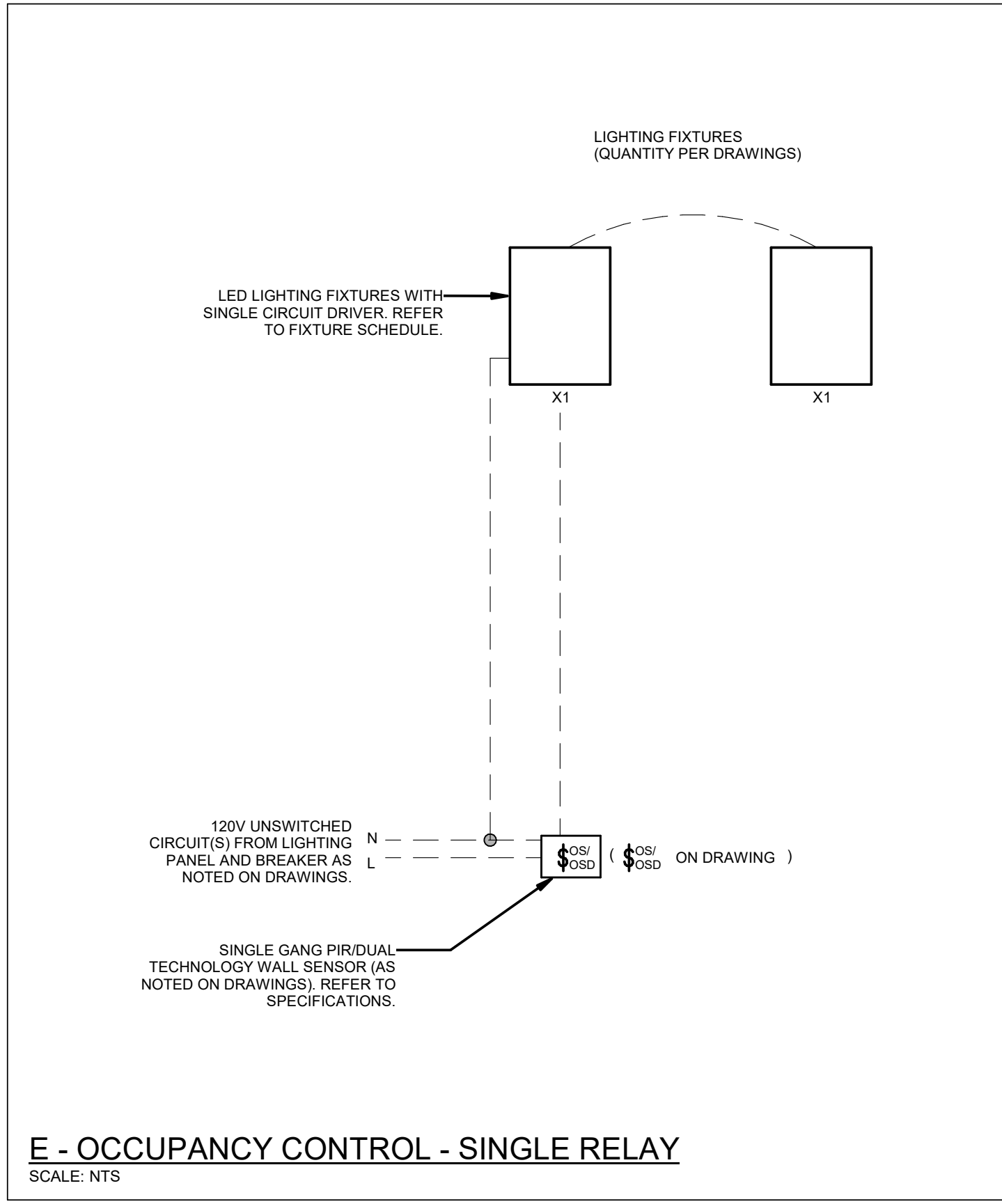
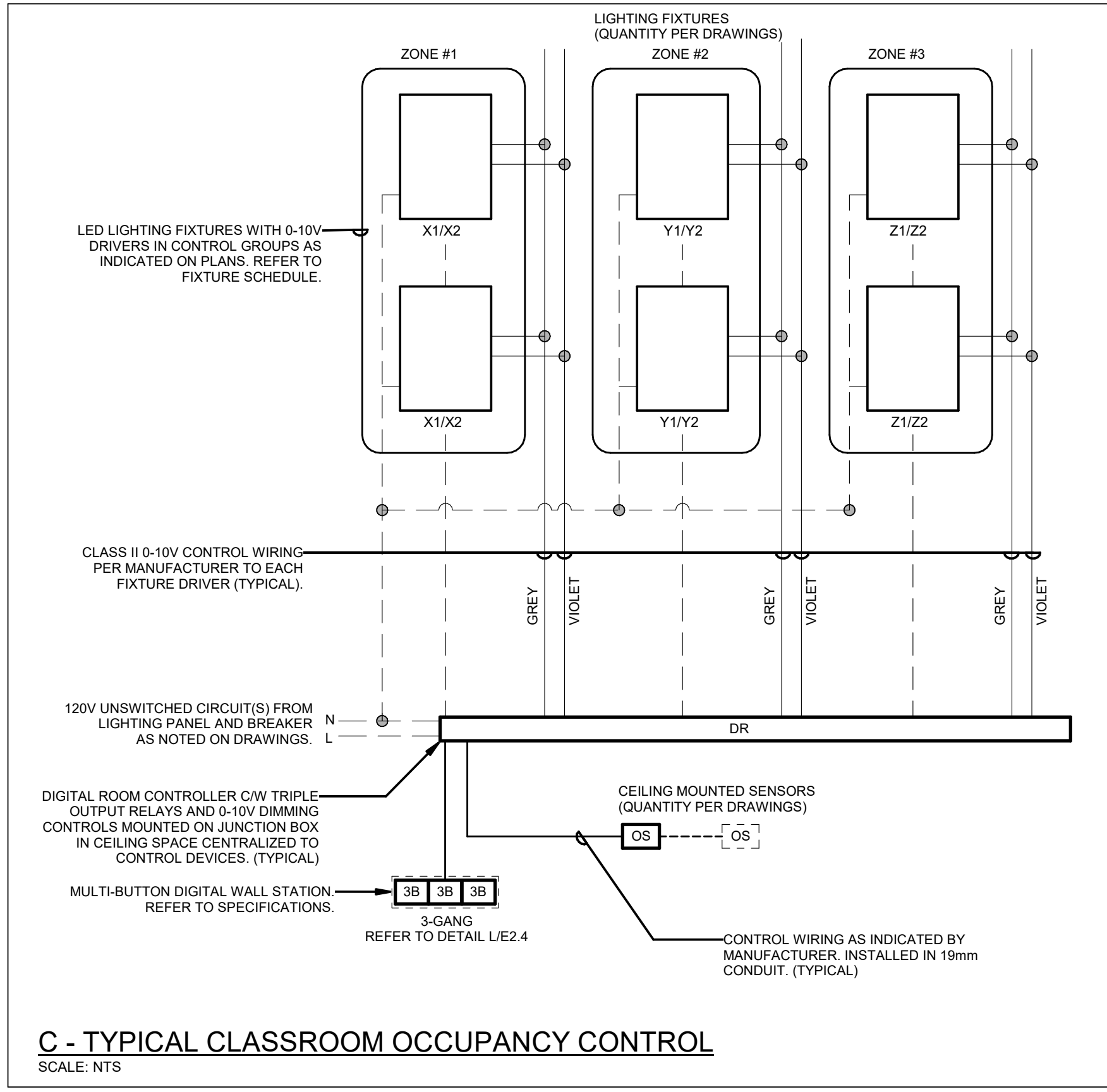
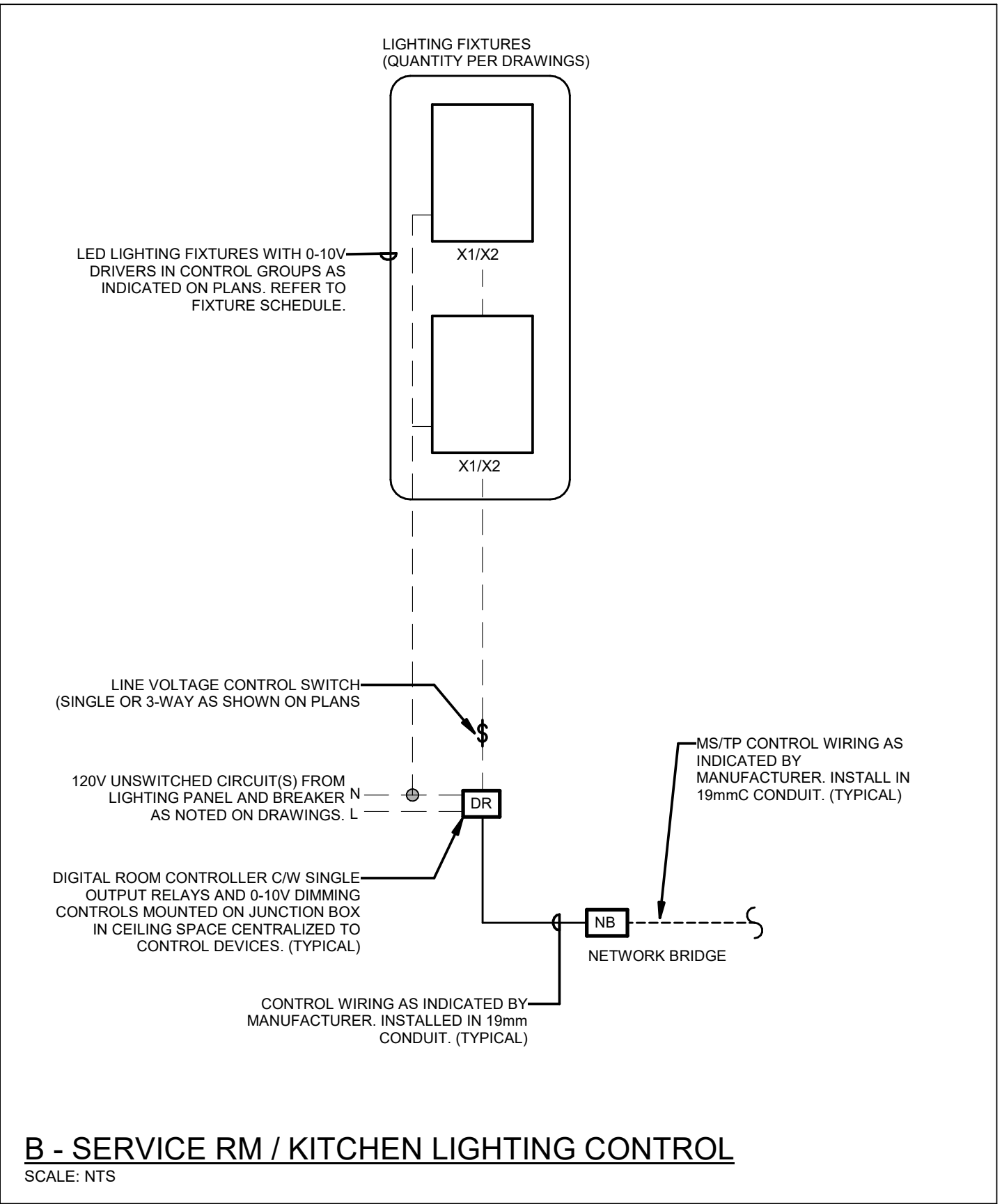
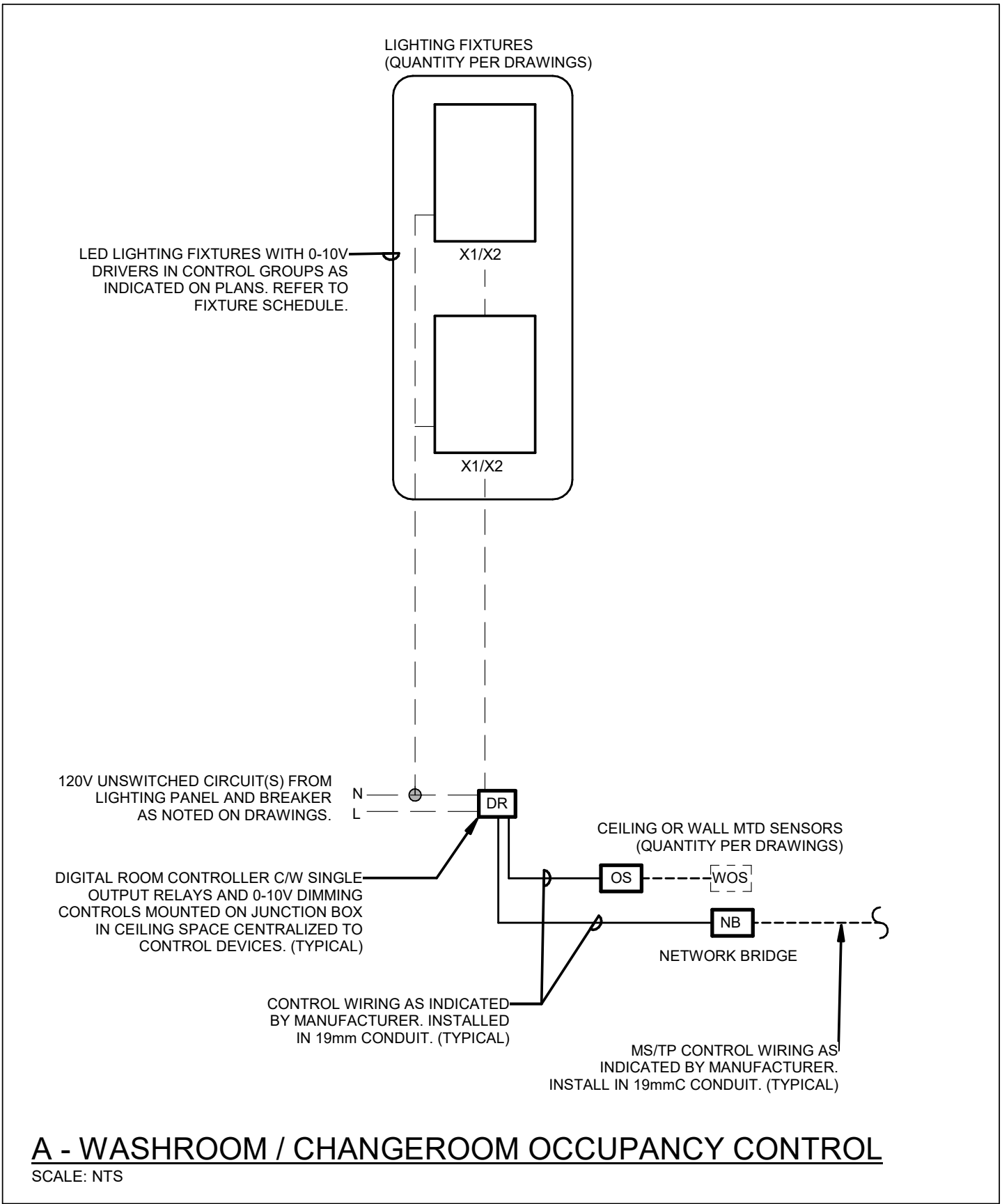
MILTON DISTRICT SCHOOL BOARD
1111 KINGSTON ROAD
BURLINGTON, ON L7R 2C2
TEL: (905) 335-3863
FAX: (905) 335-3862

LIGHTING DETAILS
(1 OF 2)

HOSSACK & ASSOCIATES ARCHITECTS

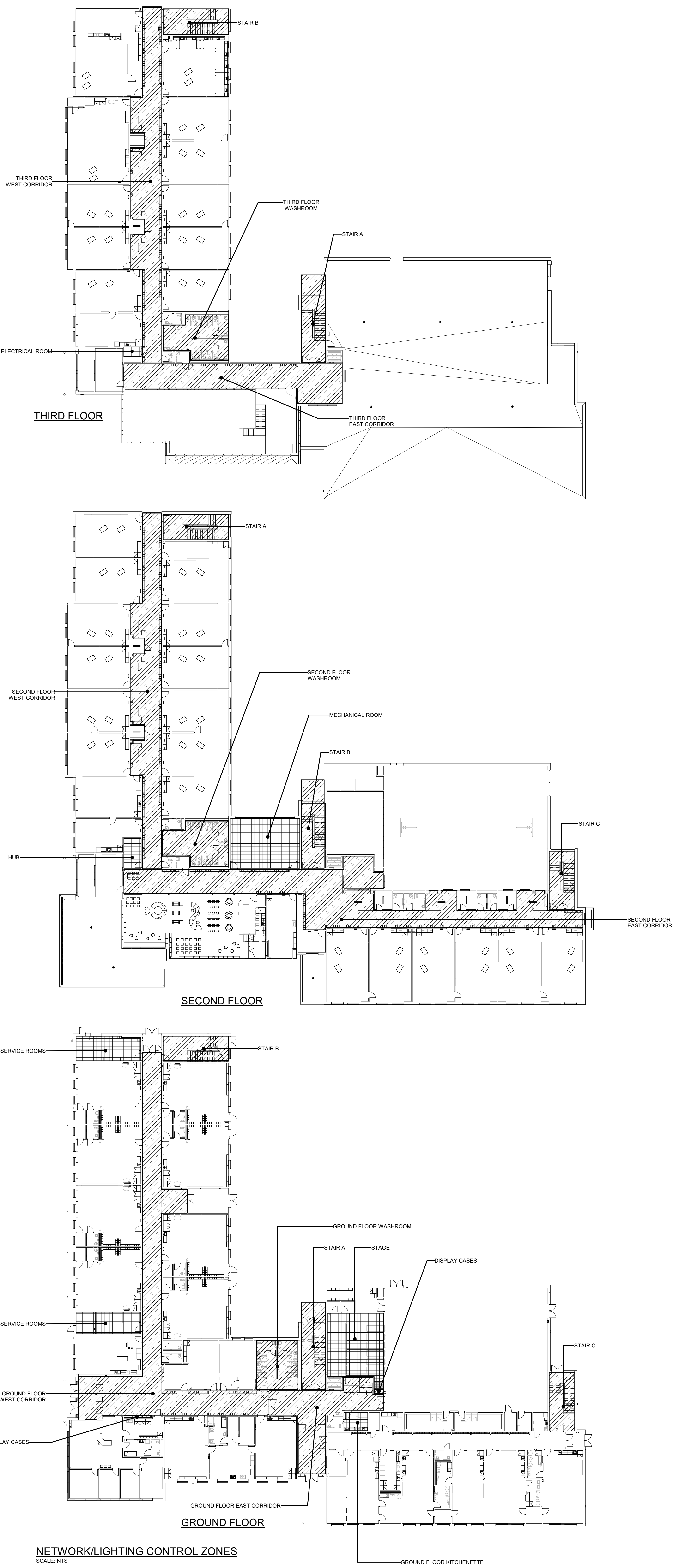
DEI Consulting Engineers

SCALE	PROJECT
As Indicated	22124
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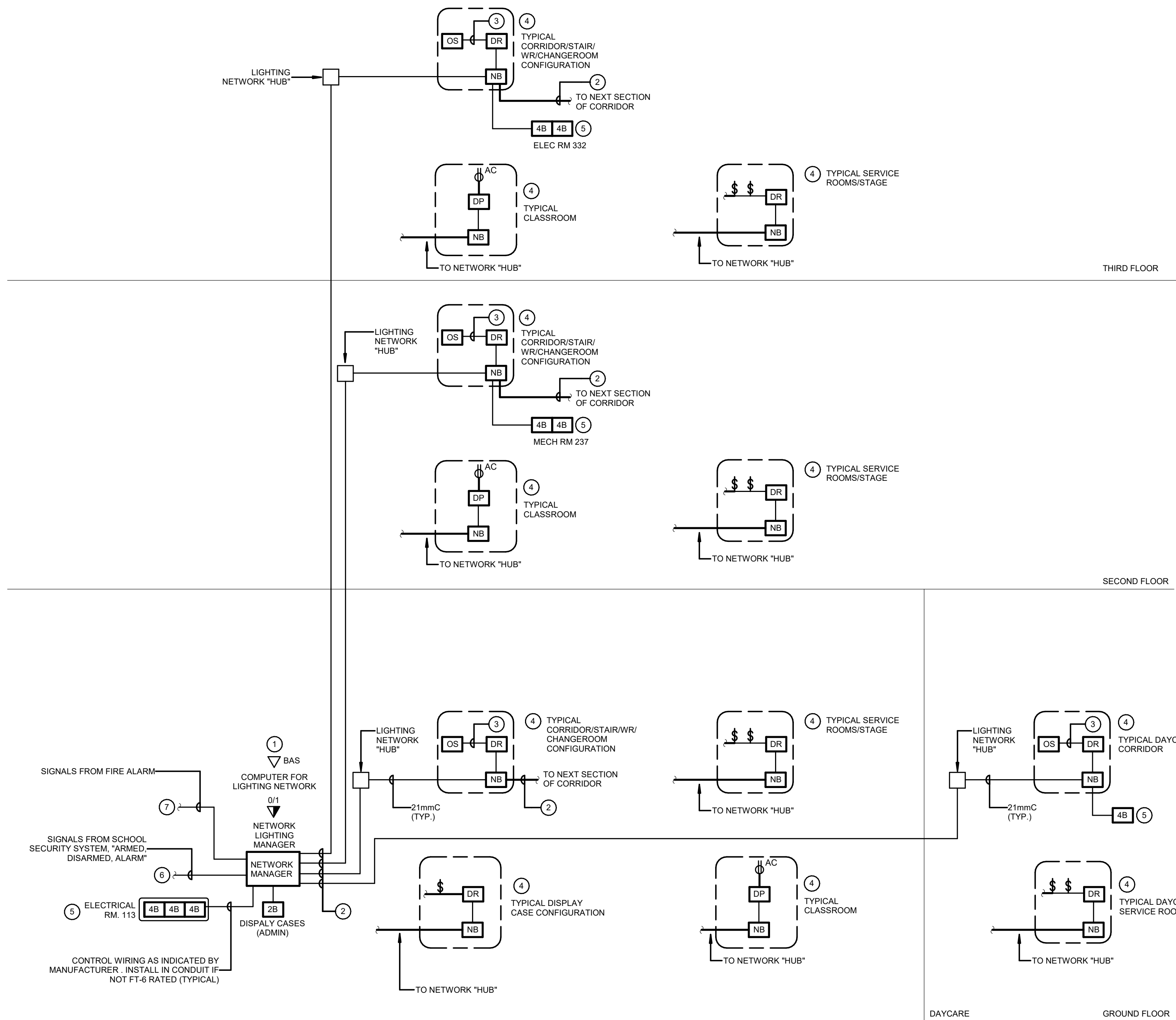


LIGHTING CONTROL SYSTEMS SEQUENCE OF OPERATIONS				LIGHTING CONTROL SYSTEMS SEQUENCE OF OPERATIONS			
SPACE TYPE	ROOM NAMES	CONTROL SEQUENCE/CONTROL DEVICES	CONTROL SYSTEMS	SPACE TYPE	ROOM NAMES	CONTROL SEQUENCE/CONTROL DEVICES	CONTROL SYSTEMS
Public Corridors/Vestibules	TYPICAL FOR SCHOOL CORRIDORS AND VESTIBULES	Sequence: AUTO ON: Segment manager signal corridor zones after school opening to allow occupancy sensors to adjust fixture brightness. ON FULL: Lights turned to 100% output via occupancy in each corridor zone. NORMAL HOURS AUTO ADJUST: 15 minutes after corridor zone is vacated, lights dim to 50% output. AUTO OFF: Segment manager signal corridor zones after school closing to restrict occupancy sensors to switch fixtures on/off only. AFTER HOURS AUTO OFF: 5 minutes after corridor zone is vacated, lights turn off. Manual override via master control button station. FIRE ALARM: Upon signal from fire alarm system, bypass all timing inputs, scenes, and other programming such that lights are at 100% output.	DIGITAL ROOM CONTROL SYSTEM C/W NETWORK MANAGER CONTROL	Exterior	POLE FIXTURES WALL PACKS CANOPY FIXTURES	Sequence: ON PM: Lights turn on automatically at sunset via timesock (BAS). OFF PM: Lights off automatically via time sock (BAS). ON AM: Lights turn on automatically 1 hour before opening via time signal (BAS). OFF AM: Lights automatically off after overexposed time via timesock (BAS).	MULTI-POLE CONTACTORS) C/W BAS INPUT, REFER TO DISTRIBUTION RISER DIAGRAM
Small Offices	TYPICAL	Sequence: ON: Lights in all groups turned on manually via wall station(s). (Occupancy Mode) ADJUST: The occupant manually adjusts lighting zones(s) within the room to desired level manually via wall station(s). OFF: 15 minutes after the room has been vacated, the lights will automatically turn off. OVERRIDE: User manually adjusts fixture zone lighting levels or on/off and that state shall remain without reverting to previous state unless sensors do not detect occupancy for extended period, whereby normal sensor operation is to resume. AUTO PLUGS: 50% of receptacles within room automatically shutoff after hours. Manual override via master control button station.	DIGITAL ROOM CONTROL SYSTEM C/W NETWORK MANAGER CONTROL	Typical Service Rooms	TYPICAL	Sequence: MANUAL ON: Lights turned on manually via light switch. MANUAL OFF: Lights turned off manually via light switch. AFTER HOURS ON: Segment manager signal after school opening to allow manual switches to turn on fixtures. AFTER HOURS OFF: Segment manager signal after school closing to switch fixtures off. FIRE ALARM: Upon signal from fire alarm system, bypass all timing inputs, scenes, and other programming such that lights are at 100% output. Manual override via master control button station.	DIGITAL ROOM CONTROL SYSTEM C/W NETWORK MANAGER AHEAD OF LOCAL SWITCHES
Open Office	OPEN OFFICE ADMINISTRATION	Sequence: ON: Lights turned on automatically to 50% output setting via occupancy sensor. ADJUST: The occupant manually adjusts lighting zone within the room to desired level or preset in each group via wall scene station. OFF: 15 minutes after the room has been vacated, the lights will automatically turn off. FIRE ALARM: Upon signal from fire alarm system, bypass all timing inputs, scenes, and other programming such that lights are at 100% output.	DIGITAL ROOM CONTROL SYSTEM C/W NETWORK MANAGER CONTROL	Stairwells	TYPICAL FOR SCHOOL STAIRWELLS	Sequence: NIGHT/LIGHT AUTO ON: Segment manager signal stair zones turn on upon school opening. NIGHT/LIGHT AUTO OFF: Segment manager signal stair zones turn off upon school closing. AUTO ON: Segment manager signal stairwell zones after school opening to allow occupancy sensors to adjust fixture brightness. ON FULL: Lights turned to 100% output via occupancy in each stairwell zone. NORMAL HOURS AUTO ADJUST: 20 minutes after stairwell zone is vacated, lights dim to 40% output. AUTO OFF: Segment manager signal stairwell zones after school closing to restrict occupancy sensors to switch fixtures on/off only. AFTER HOURS AUTO OFF: 20 minutes after stairwell zone is vacated, lights turn off. FIRE ALARM: Upon signal from fire alarm system, bypass all timing inputs, scenes, and other programming such that lights are at 100% output. Manual override via master control button station.	DIGITAL ROOM CONTROL SYSTEM C/W NETWORK MANAGER CONTROL
Work Rooms	TYPICAL	Sequence: ON: Lights turned on manually via wall station(s). (Occupancy Mode) ADJUST: The occupant manually adjusts lighting zone within the room to desired level or preset in each group via wall scene station. OFF: 15 minutes after the room has been vacated, the lights will automatically turn off. FIRE ALARM: Upon signal from fire alarm system, bypass all timing inputs, scenes, and other programming such that lights are at 100% output.	DIGITAL ROOM CONTROL SYSTEM C/W NETWORK MANAGER CONTROL	Display Cases	TYPICAL	Sequence: ON: Display Case lighting circuit on automatically at school opening via time signal (BAS). OFF: Display Case lighting circuit off automatically at school closing via time signal (BAS). ADJUST: Manual override/ Staff may manually adjust the display case lighting & plug circuit on/off via wall station and set desired dimming level of display case via local internal dimmer (standard AAMP operation as noted above). Manual override via master control button station.	DIGITAL ROOM CONTROL SYSTEM C/W NETWORK MANAGER CONTROL
Public Washrooms / Changing Rooms	TYPICAL	Sequence: ON: Lights turned on automatically via occupancy sensor (where applicable). OFF: 15 minutes after the room has been vacated, the lights will automatically turn off. Manual override via master control button station.	DIGITAL ROOM CONTROL SYSTEM C/W NETWORK MANAGER CONTROL	Gymnasium	GYM	Sequence: ON: Lights in all groups turned on manually via wall station(s). (Occupancy Mode) ADJUST: The occupant manually adjusts lighting zone within the room to desired level or preset via dimmer station. OFF: 15 minutes after the room has been vacated, the lights will automatically turn off. OVERRIDE: User manually adjusts fixture zone lighting levels or on/off and that state shall remain without reverting to previous state unless sensors do not detect occupancy for extended period, whereby normal sensor operation is to resume. AUTO PLUGS: 50% of receptacles within room automatically shutoff after hours.	DIGITAL ROOM CONTROL SYSTEM C/W NETWORK MANAGER CONTROL
Storage/Private Washrooms	TYPICAL	Sequence: ON: Lights turned on manually via wall sensor switch. (Occupancy Mode) OFF: 5 minutes after the room has been vacated, the lights will automatically turn off.	LINE VOLTAGE OCCUPANCY CONTROL SYSTEM	Stage	TYPICAL	Sequence: MANUAL ON: Lights turned on manually via light switch. MANUAL OFF: Lights turned off manually via light switch. AFTER HOURS ON: Segment manager signal after school opening to allow manual switches to turn on fixtures. AFTER HOURS OFF: Segment manager signal after school closing to switch fixtures off. FIRE ALARM: Upon signal from fire alarm system, bypass all timing inputs, scenes, and other programming such that lights are at 100% output. Manual override via master control button station.	DIGITAL ROOM CONTROL SYSTEM C/W SEGMENT CONTROL & SECURITY SYSTEM CONTROL
Classrooms/Kindergarten	TYPICAL	Sequence: ON: Lights in all groups turned on manually via wall station(s). (Occupancy Mode) ADJUST: The occupant manually adjusts lighting zone within the room to desired level or preset via dimmer station. OFF: 15 minutes after the room has been vacated, the lights will automatically turn off. OVERRIDE: User manually adjusts fixture zone lighting levels or on/off and that state shall remain without reverting to previous state unless sensors do not detect occupancy for extended period, whereby normal sensor operation is to resume. AUTO PLUGS: 50% of receptacles within room automatically shutoff after hours.	DIGITAL ROOM CONTROL SYSTEM C/W NETWORK MANAGER CONTROL	Daycare Storage/Kitchen	TYPICAL	Sequence: ON: Lights turned on manually via light switch. MANUAL OFF: Lights turned off manually via light switch. AFTER HOURS ON: Segment manager signal after school opening to allow manual switches to turn on fixtures. AFTER HOURS OFF: Segment manager signal after school closing to switch fixtures off. Manual override via master control button station.	DIGITAL ROOM CONTROL SYSTEM C/W SEGMENT CONTROL & SECURITY SYSTEM CONTROL
Learning Commons	LIBRARY	Sequence: ON: Lights in all groups turned on manually via wall station(s). (Occupancy Mode) ADJUST: The occupant manually adjusts lighting zone within the room to desired level or preset via dimmer station. OFF: 15 minutes after the room has been vacated, the lights will automatically turn off. OVERRIDE: User manually adjusts fixture zone lighting levels or on/off and that state shall remain without reverting to previous state unless sensors do not detect occupancy for extended period, whereby normal sensor operation is to resume. FIRE ALARM: Upon signal from fire alarm system, bypass all timing inputs, scenes, and other programming such that lights are at 100% output.	DIGITAL ROOM CONTROL SYSTEM C/W NETWORK MANAGER CONTROL	NOTES:			
SYSTEM DESCRIPTIONS:				1. ALL INDICATED TIMES, INCLUDING 'SCHOOL OPENING' AND 'SCHOOL CLOSING', SHALL BE COORDINATED WITH SCHOOL BOARD REPRESENTATIVE AND SHALL ACTIVATE VIA SCHOOL SECURITY SYSTEM ARMED AND DISARMED POINT. ALL NETWORKED LIGHTING SYSTEMS SHALL GO TO FULL BRIGHTNESS UPON RECEIVING SIGNAL FOR SECURITY SYSTEM ALARM. REPORT ANY DISCREPANCIES BETWEEN SEQUENCE AND CONTROL DEVICES TO ENGINEER PRIOR TO PROGRAMMING. COORDINATE PROGRAMMING OF ANY SPACES NOT LISTED WITH BOARD REPRESENTATIVE.			
DIGITAL ROOM CONTROL SYSTEM C/W NETWORK MANAGER				2. ALL DIGITAL ROOM SYSTEMS SHALL BE INTERCONNECTED VIA NETWORK BRIDGES AND HUBS TO NETWORK MANAGER. HOWEVER ALL ROOMS ARE TO BE PROGRAMMED TO FUNCTION INDEPENDENTLY.			
DIGITAL ROOM CONTROL RELAY POWER PACKS C/W PLUG AND PLAY DIGITAL SENSORS AND WALL MOUNT CONTROL STATIONS				3. ALL PLUG LOAD ROOM CONTROL SYSTEMS SHALL BE INTERCONNECTED VIA NETWORK BRIDGES AND HUBS TO NETWORK MANAGER.			
REFER TO SPECIFICATIONS SECTION 26 05 75 AND 26 27 26.				4. PROVIDE ROOM CONTROL RELAY AHEAD OF LINE VOLTAGE SWITCHES IN ALL SERVICE ROOM AND STAGE AS NOTED ON PLANS AND SHALL BE INTERCONNECTED VIA NETWORK BRIDGE AND HUBS TO NETWORK MANAGER.			

3	ISSUED FOR TENDER	2026.02.03
2	ISSUED FOR 100% COORDINATION	2026.01.15
1	ISSUED FOR PERMIT	2026.03.21
NO	DESCRIPTION	DATE
The contractor shall verify all dimensions and report all errors and discrepancies to the Consultant before commencement of the work. The drawings show general arrangement of services. Follow as closely as actual building construction will permit. Obtain approval for relocation of service from Consultant before commencement of the work. The drawings do not indicate all offsite fitting and accessories which may be required. Provide the same to meet the required conditions. Drawings and specifications, etc., prepared and issued by the consultant are the property of the consultant and must be returned at the completion of the project. These documents are not to be duplicated or copied without the consent of the Consultant. Do not scale the drawings. © 2026 DEI Consulting Engineers Inc.		
Professional Engineers <i>2026-02-03</i> Limited Engineering Licensee Name: D.G. MCCONKEY Number: 100230476 Licence: Design, reporting and specifications for all building electrical systems, site surveying and review of contractors for their systems in new or renovation contracts. Association of Professional Engineers of Ontario		
MILTON #13 PUBLIC SCHOOL 1345 TRUDEAU DRIVE MILTON, ON		
LEGAL DESCRIPTION PART OF LOT 6, CONCESSION 5 TOWN OF MILTON, REGION OF HALTON		
MILTON DISTRICT SCHOOL BOARD L.W. SINGLETON EDUCATION CENTRE 1650 QUELPH LINE BURLINGTON, ON L7R 5Z2 TEL: (905) 335-3683 FAX: (905) 335-3682		
LIGHTING DETAILS (2 OF 2)		
HOSSACK & ASSOCIATES ARCHITECTS		
DEI Consulting Engineers MECHANICAL ELECTRICAL / AQUATIC SCALE: As Indicated PROJECT: 22124 DATE: 26-01-13 DRAWING: CT CHECKED: DM E2.5 PRINT DATE: 2026-02-03 1:58:07 PM REVIT FILE: T:\2021\7172302\Revit\RYT		



NETWORK/LIGHTING CONTROL ZONES
SCALE: NTS



- CONTRACTOR TO PROVIDE DATA DROP FROM NEAREST BAS SYSTEM PANEL FOR BACnet IP INTERFACE WITH SEGMENT MANAGER.
- CONTRACTOR TO INSTALL M5/TP CABLE FROM NETWORK MANAGER TO EACH NETWORK BRIDGE, NETWORKING AND BETWEEN NETWORK BRIDGES PER MANUFACTURERS RECOMMENDATIONS.
- INDICATES LMRC CABLE BETWEEN DEVICES AND RELAY DIMMING CONTROLLERS AND TO NETWORK BRIDGES.
- REFER TO INDIVIDUAL SPACE CONTROL SYSTEMS, DETAILS AND FLOOR PLANS FOR QUANTITY OF RELAYS, DEVICES, ZONES AND DIGITAL WALL STATION CONTROLS.
- INDICATES MASTER OVERRIDE SWITCH FOR CORRIDOR, STAIRCASE & WASHROOM LIGHTING LOCATED AS PER FLOOR PLANS. REFER TO DETAIL DIE2.4.
- CONTRACTOR TO INSTALL 21mmC FROM SECURITY ALARM CONTROL PANEL CONTACTS FROM LIGHTING NETWORK MANAGER. COORDINATE WITH SECURITY SUB-CONTRACTOR AND CONNECT SO FIXTURES SWITCH TO NORMAL HOURS OPERATION WITH SYSTEM DISARM AND AFTER HOURS OPERATION WITH SYSTEM ARMING.
- CONTRACTOR TO PROVIDE DRY CONTACT SIGNAL FROM FIRE ALARM CONTROL PANEL FOR OVERRIDE OF PROGRAMMED FUNCTIONS UPON ACTIVATION OF ALARM SIGNAL. PROVIDE 21mmC FROM FIRE ALARM CONTROL PANEL. ALL WIRING BY ELECTRICAL TRADE.

A - NETWORK LIGHTING CONTROL
SCALE: NTS

LEGEND

1. [Hatched Pattern] INDICATED AREA(S) TO HAVE LIGHTING IN EACH SPACE INDIVIDUALLY CONTROLLED BY OCCUPANCY SENSORS AND SEGMENT MANAGER CONTROL FOR THE ZONE AS NOTED. REFER TO LIGHTING PLANS AND CONTROL DETAIL FOR MASTER L.V. WALL STATION CONTROLS.

2. [Grid Pattern] INDICATED AREA(S) TO HAVE LIGHTING IN EACH SPACE INDIVIDUALLY CONTROLLED BY LOCAL MANUAL SWITCHES AND SEGMENT MANAGER FOR THE ZONE AS NOTED. REFER TO LIGHTING PLANS AND CONTROL DETAILS.

Professional Engineers
Limited Engineering Licensee
Name: D.G. MCCONKEY
Number: 100230476
Limitations: Detailed design, reporting, and specifications for all building electrical systems, site servicing and review of conformity for these systems in new and renovation construction.
Association of Professional Engineers of Ontario

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TEL (905) 335-3863
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LIGHTING CONTROL ZONE LAYOUT

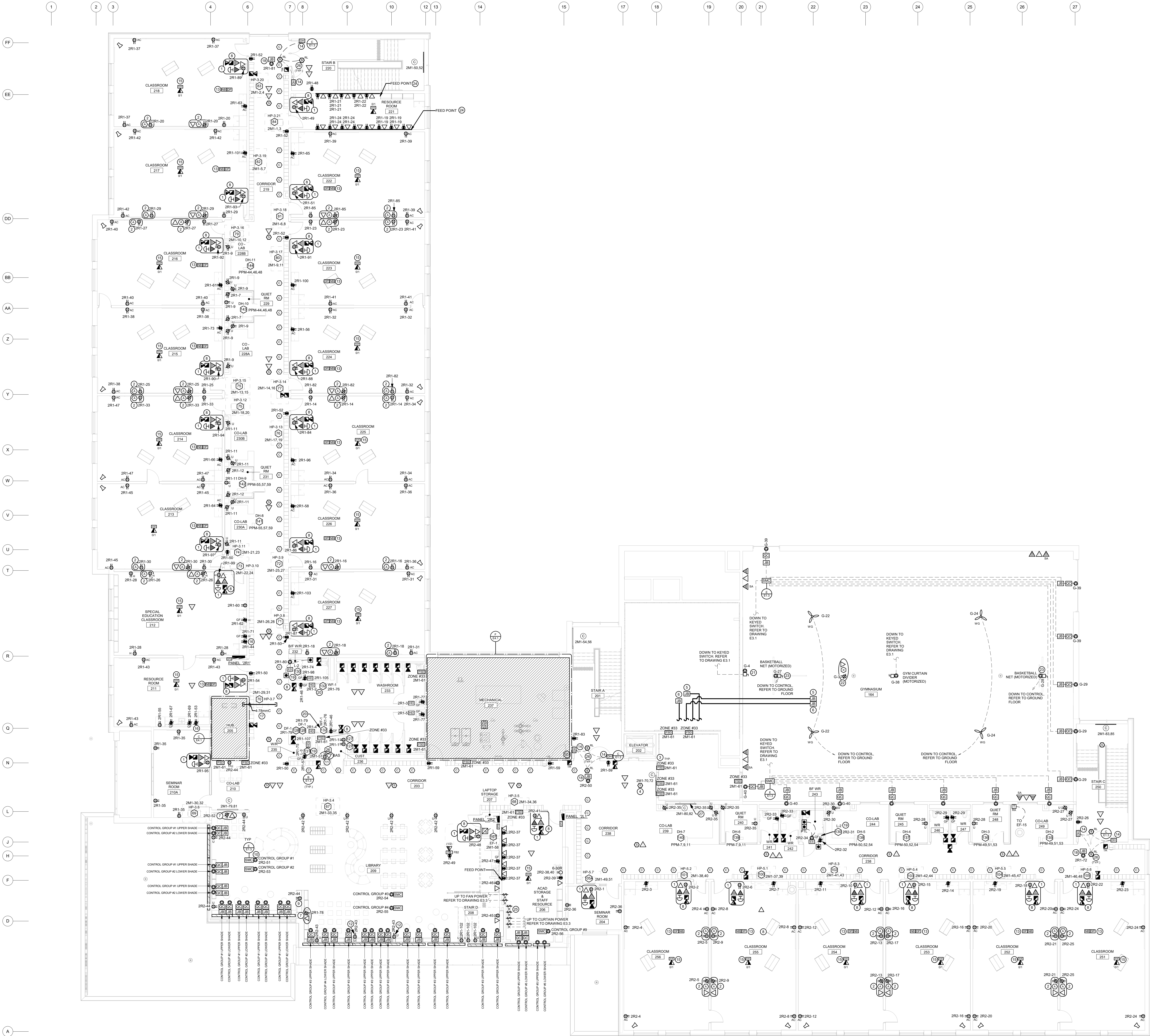
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Project Number: 22-01

DEI Consulting Engineers
MECHANICAL | ELECTRICAL | AQUATIC

SCALE	PROJECT
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SECOND FLOOR POWER & SYSTEMS PLAN
SCALE: 1 : 100

GENERAL NOTES

A ALL RECEPTACLES ARE TO BE TAMPER RESISTANT TYPE PER LATEST EDITION OF ONTARIO ELECTRICAL SAFETY CODE.

B ALL RECEPTACLES EXPOSED TO WEATHER ARE TO BE PROVIDED WITH EXTRA DUTY IN-USE WEATHER PROOF COVERS.

C EXACT LOCATION OF ALL DEVICES AND RESPECTIVE HEIGHTS TO BE COORDINATED WITH ARCHITECTURAL DRAWINGS AND OWNER PRIOR TO ROUGH-IN.

D CONFIRM ELECTRICAL REQUIREMENTS AND EXACT LOCATION OF ALL MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLATION OF ELECTRICAL SERVICES.

E ROUTE ALL CONDUIT SYSTEMS AROUND DUCT WORK, BEAMS AND PIPING AS REQUIRED TO ACCOMMODATE INSTALLATION. REFER TO MECHANICAL AND ARCHITECTURAL DRAWINGS FOR FURTHER DETAILS AND REQUIREMENTS.

F ELECTRICAL CONTRACTOR SHALL NOT USE PULLBOXES AS SUBSTITUTES FOR 90 DEGREE BENDS.

G ALL COMMUNICATION SYSTEMS ZONE CONDUITS PROVIDED BY ELECTRICAL CONTRACTOR SHALL BE C/W PULLSTRINGS. ALL CONDUITS SHALL BE EMT C/W BUSHINGS AND RUBBERIZED GROMMETS.

H MINIMUM WIRE SIZE #16AWG FOR ALL 120V CIRCUITS EXCEEDING 90 FEET IN LENGTH.

I ALL SMOKE ALARMS SPECIFIED WITHIN CHILD CARE CLASSROOMS ARE TO BE INTERCONNECTED SUCH THAT ACTIVATION OF ANY ALARM CAUSES ALL ALARMS TO SOUND.

J PROVIDE 5/16" STYLE O/N BREAKER FOR ALL HAND DRIVERS INSTALLED IN WASHROOM TO MEET THE REQUIREMENTS OF SECTION 62-30 AND 62-32 IN THE ONTARIO SAFETY ELECTRICAL CODE. REFER TO PANEL SCHEDULE FOR FURTHER DETAILS AND REQUIREMENTS.

SPECIFIC NOTES

1 INDICATED DEVICES TO BE MOUNTED IN PREFABRICATED PANEL. REFER TO DETAIL N1.3.

2 INDICATES DEVICES FOR SMARTBOARD PROJECTOR AND TEACHER COMMAND CONSOLE. REFER TO DETAIL C1.3 FOR FURTHER DETAILS AND REQUIREMENTS. EXACT MOUNTING HEIGHT FOR DEVICES TO BE COORDINATED ON SITE WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN. INDICATED DEVICES FOR SMARTBOARD PROJECTOR SHALL BE COORDINATED WITH ARCHITECTURAL ELEVATIONS. CONFIRM EXACT MOUNTING HEIGHTS AND LOCATIONS WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN.

3 PROVIDE 120V POWER AND FIRE ALARM CONNECTIONS TO SMOKE/FIRE DAMPER WITH INTEGRAL SMOKE DETECTOR. COORDINATE EXACT LOCATION CONNECTIONS WITH MECHANICAL CONTRACTOR. SMOKE/FIRE DAMPER AND ASSOCIATED MECHANICAL CONTRACTOR SHALL BE PROVIDED AND INSTALLED BY MECHANICAL CONTRACTOR. PROVIDE ONE DUAL CIRCUIT INPUT SUPPLY AND ONE FOR INTEGRAL SMOKE DETECTOR ALARM SIGNAL.

4 PROVIDE PROGRAMMING TO INITIATE ELEVATOR RECALL SEQUENCE WHEN ELEVATOR MACHINE ROOM SMOKE DETECTOR IS ACTIVATED. PROVIDE REQUIRED COMPONENTS, WIRING ACCESSORIES TO ELEVATOR CONTROLLER.

5 INDICATES APPROXIMATE LOCATION TO TERMINATE 270V⁺ CONDUITS FOR FUTURE BRANCH CIRCUIT WIRING OF STAGE LIGHTING. PROVIDE JUNCTION BOX AT CEILING SPACE FOR FUTURE USE.

6 INDICATES APPROXIMATE LOCATION TO TERMINATE 270V⁺ CONDUITS FOR FUTURE DAX CONTROL WIRING OF STAGE LIGHTING. PROVIDE JUNCTION BOX AT CEILING SPACE FOR FUTURE USE.

7 INDICATES DEVICES TO BE INSTALLED FOR WALL MOUNTED TV. CONFIRM EXACT LOCATION AND MOUNTING HEIGHT WITH ARCHITECT. INTERIOR DESIGNER AND OWNER PRIOR TO ROUGH-IN.

8 INDICATED HORN TO BE SET TO LOW OR SETTING.

9 INDICATED RECEPTACLE TO BE MOUNTED WITHIN MILLWORK. COORDINATE WITH ARCHITECTURAL TRADE AND MILLWORK SHOP DRAWINGS PRIOR TO ROUGH-IN.

10 PROVIDE 120V POWER FOR SHADE MOTOR CONTROLLER (SMC) SUPPLIED AND INSTALLED IN CEILING SPACE BY SHADE SUPPLIER. PROVIDE ALL WIRING AND CONNECTIONS TO BE PROVIDED BY SHADE SUPPLIER. PROVIDE ONE DUAL CIRCUIT INPUT SUPPLY AND ONE FOR INTEGRAL SMOKE DETECTOR ALARM SIGNAL. COORDINATE EXACT LOCATION OF SHADE EQUIPMENT ON SITE WITH SHADE SUPPLIER PRIOR TO INSTALLATION.

11 PROVIDE RECEPTACLE AND DATA OUTLET FOR BAS PANEL. COORDINATE EXACT LOCATION ON SITE WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.

12 INDICATES DEVICES TO BE MOUNTED ABOVE MILLWORK. PROVIDE TRENCHING UNDERNEATH FLOOR SLAB FOR POWER CONDUIT. COORDINATE REQUIREMENTS WITH MILLWORK SUPPLIER PRIOR TO ROUGH-IN.

13 INDICATES DIGITAL FLUID LEAD CONTROLLER RELAY PACK AND ASSOCIATED NETWORK BRIDGE WITHIN ACCESSIBLE CEILING SPACE FOR CONTROL OF MOTORIZED NON-METALLIC (NOM) RECEPTABLES. REFER TO LIGHTING CONTROL DETAILS.

14 INDICATES MOUNTING HOOK OPEN DEVICE PROVIDED AS PART OF THIS SCOPE OF WORK. HOLD OPEN DEVICE TO RELEASE UPON SIGNAL FROM FIRE ALARM SYSTEM PER DETAIL. FIRE ALARM WIRING DIAGRAM AND SPECIFICATIONS. COORDINATE EXACT LOCATION OF HOLD OPEN DEVICES WITH ARCHITECT TO SUIT DOWN SWITCH. PROVIDE MOUNTING BRACKET AS REQUIRED.

15 INDICATES WIRELESS ACCESS POINT. PROVIDE 270V⁺ TO CORRIDOR CEILING SPACE FOR COMMUNICATIONS CONTRACTOR USE.

16 PROVIDE 120V 20A RECEPTACLE FOR OWNER SUPPLIED MICROWAVE. COORDINATE EXACT LOCATION WITH ARCHITECTURAL MILLWORK DRAWINGS PRIOR TO ROUGH-IN.

17 INDICATES 270V CONDUITS TO BE PROVIDED BY ELECTRICAL CONTRACTOR FROM ROOM SHOWN TO CABLE MANAGEMENT SYSTEM FOR COMMUNICATION AND/OR SECURITY CONTRACTOR'S USE.

18 PROVIDE 120V HANDWIRED POWER CONNECTION C/W JUNCTION BOX AND STEP DOWN TRANSFORMER (120V/240V) ABOVE ACCESSIBLE CEILING SPACE FOR MAGNETIC DOOR HOLD OPEN DEVICES. REFER TO DETAIL C1.3 AND TO SPECIFICATIONS FOR FURTHER DETAILS AND REQUIREMENTS.

19 PROVIDE 120V CONNECTION TO LAVATORY SINK. COORDINATE REQUIREMENTS WITH MECHANICAL CONTRACTOR AND PLUMBING SHOP DRAWINGS PRIOR TO ROUGH-IN.

20 PROVIDE 120V CONNECTION TO WASH/FOUNTAIN. COORDINATE REQUIREMENTS WITH MECHANICAL CONTRACTOR AND PLUMBING SHOP DRAWINGS PRIOR TO ROUGH-IN.

21 PROVIDE 120V POWER FOR MOTORIZED PROJECTION SCREEN AND ROUGH-IN C/W WIRING TO REMOTE LINE VOLTAGE CONTROL SWITCH LOCATED AS SHOWN. COORDINATE EXACT LOCATION AND REQUIREMENTS ON SITE WITH EQUIPMENT SUPPLIER. ALL COMPONENTS INCLUDING REMOTE LINE VOLTAGE SWITCH TO BE PROVIDED BY EQUIPMENT SUPPLIER.

22 INDICATES DEVICES TO BE INSTALLED FOR CEILING MOUNTED PROJECTOR. COORDINATE EXACT LOCATION TO MOUNT DEVICES ON SITE WITH OWNER.

23 INDICATES POWER CONNECTION FOR MOTORIZED BASKETBALL NET. THIS CONTRACTOR IS TO PROVIDE SINGLE GAGE ROX ROUGH-IN ELKETS SWITCH OPERATOR AT 100mm AFF AND CIRCUIT AS NOTED FOR BASKETBALL NET MOTOR. THE CONTRACTOR IS TO CONNECT AND MAKE OPERABLE THE OPERATORS AND NET MOTOR COORDINATED WITH SHOP DRAWINGS.

24 INDICATES TWO COMPARTMENT SURFACE MOUNTED NON-METALLIC RACEWAY MOUNTED AT 100mm ABOVE MILLWORK. CONFIRM ON SITE AND COORDINATE WITH MILLWORK INSTALLERS. RACEWAY TO BE C/W PLAT ELBOW AND ROSE TO CEILING SPACE. IN CEILING SPACE PROVIDE SERVICE ENTRANCE FITTING C/W 2.5mm² TO LOCAL ZONE CONDUIT AND 15mm² TO BRANCH PANEL.

25 SHADE CONTROL SWITCH SYMBOLS SHOWN IN THIS AREA ARE DIAGRAMMATIC ONLY AND DO NOT REPRESENT ACTUAL INSTALLATION LOCATION. SWITCHES FOR ALL SHADE CONTROL GROUPS, INCLUDING GROUPS ON LEVEL ABOVE, ARE SHOWN HERE FOR COORDINATION PURPOSES ONLY. PROVIDE ONE KEYSWITCH PER SHADE CONTROL SWITCH PER SHADE CONTROL GROUP. ELECTRICAL CONTRACTOR SHALL PROVIDE CLEAR PERMANENT LABELS AT EACH SWITCH TO INDICATE ITS ASSOCIATED SHADE CONTROL GROUP. COORDINATE FINAL SWITCH LOCATIONS AND LABEL NOMENCLATURE WITH SHADE SUPPLIER PRIOR TO ROUGH-IN. REFER TO DETAIL E1.3 FOR ALL WIRING REQUIREMENTS.

26 INDICATED DETECTOR C/W RELAY BASE FOR RELEASE OF ELKETS/FRAMMENT. PROVIDE CLEAR LOCATE DETECTOR WITHIN 1.5m AND CENTRE ON DOOR/BEING HELD OPEN WHEN INDICATED DEVICES IS IN ALARM. THE ASSOCIATED RELAY IN THE DEVICE BASE IS TO CLOSE AND CAUSE ASSOCIATED DOOR HOLDS TO RELEASE. THROUGH PROGRAMMING, WHEN INDICATED DEVICE IS IN ALARM, THE ASSOCIATED RELAY SHALL CAUSE DOOR HOLDS TO RELEASE. REFER TO DETAIL.

27 FEED INDICATED DEVICES FROM BELOW.

NOTES: CIRCUIT LABELS

PROVIDE P-TOUCH LABELS INDICATING PANEL AND CIRCUIT LABEL ON ALL TIGHT SWITCH, LIGHTING CONTROL STATION, AND RECEPTACLE DEVICE FACILITIES. INCLUDE SWITCH LED INDICATION FOR LIGHTING CONTROLS AND SWITCHES.

REFER TO SPECIFICATIONS FOR FURTHER DETAILS AND REQUIREMENTS.

GENERAL NOTES

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B ALL RECEPTACLES EXPOSED TO WEATHER ARE TO BE PROVIDED WITH EXTRA DUTY IN-USE WEATHER PROOF COVERS.

C EXACT LOCATION OF ALL DEVICES AND RESPECTIVE HEIGHTS TO BE COORDINATED WITH ARCHITECTURAL DRAWINGS AND OWNER PRIOR TO ROUGH-IN.

D CONFIRM ELECTRICAL REQUIREMENTS AND EXACT LOCATION OF ALL MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLATION OF ELECTRICAL SERVICES.

E ROUTE ALL CONDUIT SYSTEMS AROUND DUCT WORK, BEAMS AND PIPING AS REQUIRED TO ACCOMMODATE INSTALLATION. REFER TO MECHANICAL AND ARCHITECTURAL DRAWINGS FOR FURTHER DETAILS AND REQUIREMENTS.

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16 PROVIDE 120V 20A RECEPTACLE FOR OWNER SUPPLIED MICROWAVE. COORDINATE EXACT LOCATION WITH ARCHITECTURAL MILLWORK DRAWINGS PRIOR TO ROUGH-IN.

17 INDICATES 270V CONDUITS TO BE PROVIDED BY ELECTRICAL CONTRACTOR FROM ROOM SHOWN TO CABLE MANAGEMENT SYSTEM FOR COMMUNICATION AND/OR SECURITY CONTRACTOR'S USE.

18 PROVIDE 120V HANDWIRED POWER CONNECTION C/W JUNCTION BOX AND STEP DOWN TRANSFORMER (120V/240V) ABOVE ACCESSIBLE CEILING SPACE FOR MAGNETIC DOOR HOLD OPEN DEVICES. REFER TO DETAIL C1.3 AND TO SPECIFICATIONS FOR FURTHER DETAILS AND REQUIREMENTS.

19 PROVIDE 120V CONNECTION TO LAVATORY SINK. COORDINATE REQUIREMENTS WITH MECHANICAL CONTRACTOR AND PLUMBING SHOP DRAWINGS PRIOR TO ROUGH-IN.

20 PROVIDE 120V CONNECTION TO WASH/FOUNTAIN. COORDINATE REQUIREMENTS WITH MECHANICAL CONTRACTOR AND PLUMBING SHOP DRAWINGS PRIOR TO ROUGH-IN.

21 PROVIDE 120V POWER FOR MOTORIZED PROJECTION SCREEN AND ROUGH-IN C/W WIRING TO REMOTE LINE VOLTAGE CONTROL SWITCH LOCATED AS SHOWN. COORDINATE EXACT LOCATION AND REQUIREMENTS ON SITE WITH EQUIPMENT SUPPLIER. ALL COMPONENTS INCLUDING REMOTE LINE VOLTAGE SWITCH TO BE PROVIDED BY EQUIPMENT SUPPLIER.

22 INDICATES DEVICES TO BE INSTALLED FOR CEILING MOUNTED PROJECTOR. COORDINATE EXACT LOCATION TO MOUNT DEVICES ON SITE WITH OWNER.

23 INDICATES POWER CONNECTION FOR MOTORIZED BASKETBALL NET. THIS CONTRACTOR IS TO PROVIDE SINGLE GAGE ROX ROUGH-IN ELKETS SWITCH OPERATOR AT 100mm AFF AND CIRCUIT AS NOTED FOR BASKETBALL NET MOTOR. THE CONTRACTOR IS TO CONNECT AND MAKE OPERABLE THE OPERATORS AND NET MOTOR COORDINATED WITH SHOP DRAWINGS.

24 INDICATES TWO COMPARTMENT SURFACE MOUNTED NON-METALLIC RACEWAY MOUNTED AT 100mm ABOVE MILLWORK. CONFIRM ON SITE AND COORDINATE WITH MILLWORK INSTALLERS. RACEWAY TO BE C/W PLAT ELBOW AND ROSE TO CEILING SPACE. IN CEILING SPACE PROVIDE SERVICE ENTRANCE FITTING C/W 2.5mm² TO LOCAL ZONE CONDUIT AND 15mm² TO BRANCH PANEL.

25 SHADE CONTROL SWITCH SYMBOLS SHOWN IN THIS AREA ARE DIAGRAMMATIC ONLY AND DO NOT REPRESENT ACTUAL INSTALLATION LOCATION. SWITCHES FOR ALL SHADE CONTROL GROUPS, INCLUDING GROUPS ON LEVEL ABOVE, ARE SHOWN HERE FOR COORDINATION PURPOSES ONLY. PROVIDE ONE KEYSWITCH PER SHADE CONTROL SWITCH PER SHADE CONTROL GROUP. ELECTRICAL CONTRACTOR SHALL PROVIDE CLEAR PERMANENT LABELS AT EACH SWITCH TO INDICATE ITS ASSOCIATED SHADE CONTROL GROUP. COORDINATE FINAL SWITCH LOCATIONS AND LABEL NOMENCLATURE WITH SHADE SUPPLIER PRIOR TO ROUGH-IN. REFER TO DETAIL E1.3 FOR ALL WIRING REQUIREMENTS.

26 INDICATED DETECTOR C/W RELAY BASE FOR RELEASE OF ELKETS/FRAMMENT. PROVIDE CLEAR LOCATE DETECTOR WITHIN 1.5m AND CENTRE ON DOOR/BEING HELD OPEN WHEN INDICATED DEVICES IS IN ALARM. THE ASSOCIATED RELAY IN THE DEVICE BASE IS TO CLOSE AND CAUSE ASSOCIATED DOOR HOLDS TO RELEASE. THROUGH PROGRAMMING, WHEN INDICATED DEVICE IS IN ALARM, THE ASSOCIATED RELAY SHALL CAUSE DOOR HOLDS TO RELEASE. REFER TO DETAIL.

27 FEED INDICATED DEVICES FROM BELOW.

NOTES: CIRCUIT LABELS

PROVIDE P-TOUCH LABELS INDICATING PANEL AND CIRCUIT LABEL ON ALL TIGHT SWITCH, LIGHTING CONTROL STATION, AND RECEPTACLE DEVICE FACILITIES. INCLUDE SWITCH LED INDICATION FOR LIGHTING CONTROLS AND SWITCHES.

REFER TO SPECIFICATIONS FOR FURTHER DETAILS AND REQUIREMENTS.

LEGAL DESCRIPTION

PART OF LOT 6, CONCESSION 5
TOWN OF MILTON, REGION OF
HALTON

MILTON #13 PUBLIC SCHOOL

1345 TRUDEAU DRIVE
MILTON, ON

SECOND FLOOR POWER & SYSTEMS PLAN

HOSSACK & ASSOCIATES ARCHITECTS

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Windsor, ON N9A 1Y8
Phone: 519-253-2554
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Project Number: 22-012

DEI Consulting Engineers Inc.

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Project Number: 22-012

MECHANICAL ELECTRICAL / AQUATIC

SCALE: As Indicated

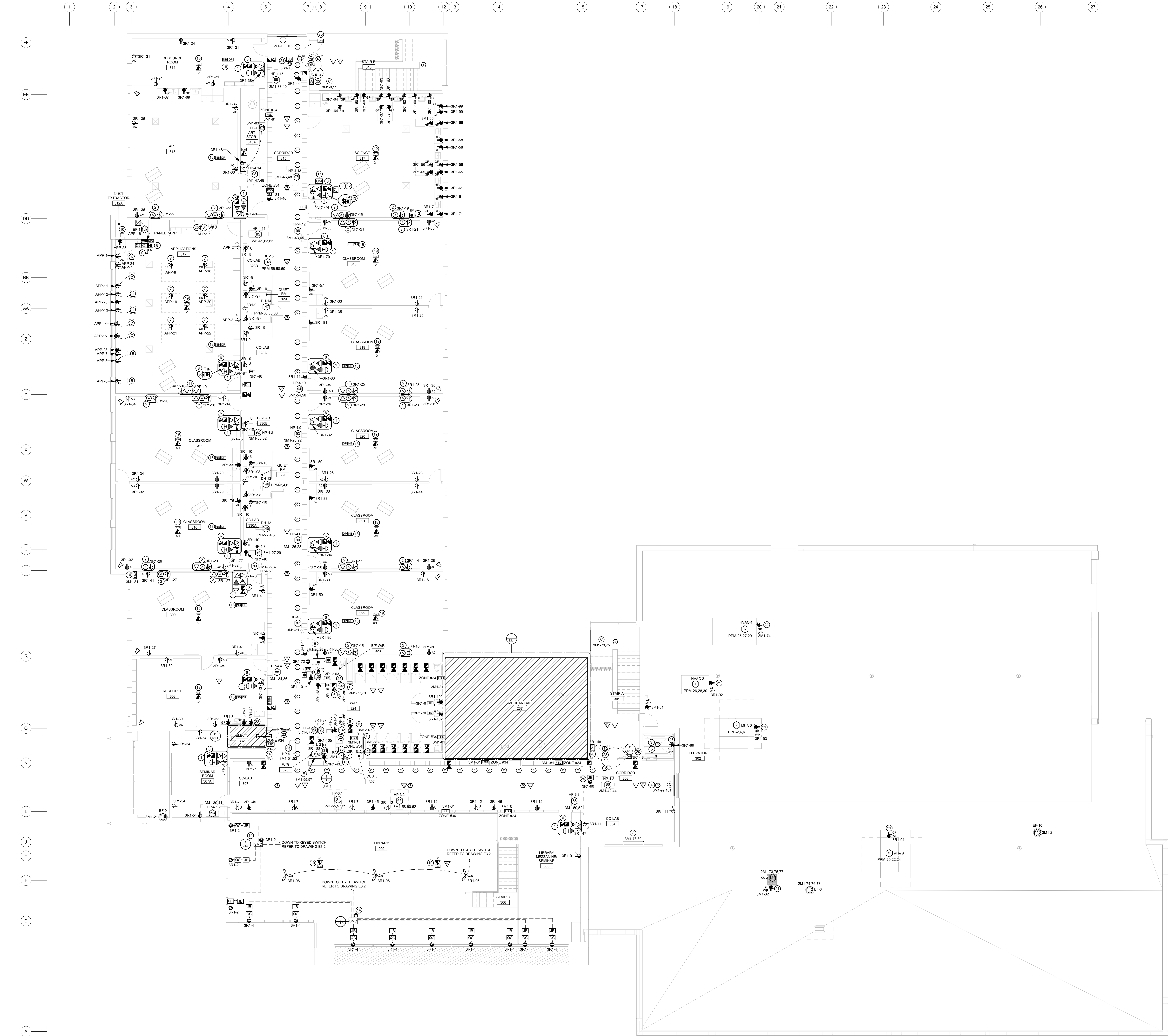
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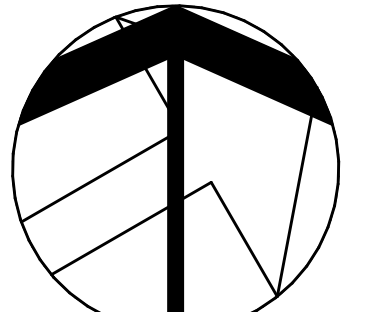


THIRD FLOOR POWER & SYSTEMS PLAN
SCALE: 1:100

GENERAL NOTES	
A	ALL RECEPTACLES ARE TO BE TAMPER RESISTANT TYPE PER LATEST EDITION OF ONTARIO ELECTRICAL SAFETY CODE.
B	ALL RECEPTACLES EXPOSED TO WEATHER ARE TO BE PROVIDED WITH "EXTRA DUTY" IN-USE WEATHER PROOF COVERS.
C	EXACT LOCATION OF ALL DEVICES AND RESPECTIVE HEIGHTS TO BE COORDINATED WITH ARCHITECTURAL DRAWINGS AND OWNER PRIOR TO ROUGH-IN.
D	CONFIRM ELECTRICAL REQUIREMENTS AND EXACT LOCATION OF ALL MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLATION OF ELECTRICAL SERVICES.
E	ROUTE ALL CONDUIT SYSTEMS AROUND DUCT WORK, BEAMS AND PIPING AS REQUIRED TO ACCOMMODATE INSTALLATION. REFER TO MECHANICAL AND ARCHITECTURAL DRAWINGS FOR FURTHER DETAILS AND REQUIREMENTS.
F	ELECTRICAL CONTRACTOR SHALL NOT USE PULLBOXES AS SUBSTITUTES FOR 90 DEGREE BENDS.
G	ALL COMMUNICATION SYSTEM ZONE CONDUITS PROVIDED BY ELECTRICAL CONTRACTOR SHALL BE C/W PULLSTRING. ALL CONDUITS SHALL BE EMT C/W BUSHINGS AND RUBBERIZED GROMMETS.
H	MINIMUM WIRE SIZE #16AWG FOR ALL 120V CIRCUITS EXCEEDING 90 FEET IN LENGTH.
I	ALL SMOKE ALARMS SPECIFIED WITHIN CHILD CARE CLASSROOMS ARE TO BE INTERCONNECTED SUCH THAT ACTIVATION OF ANY ALARM CAUSES ALL ALARMS TO SOUND.
J	PROVIDE 5/8" STYLE OF BREAKER FOR ALL HAND DRIVERS INSTALLED IN WAREHOUSE TO MEET THE REQUIREMENTS OF SECTION 62-30 AND 62-32 IN THE ONTARIO SAFETY ELECTRICAL CODE. REFER TO PANEL SCHEDULE FOR FURTHER DETAILS AND REQUIREMENTS.
SPECIFIC NOTES	
1	INDICATED DEVICES(S) TO BE MOUNTED IN PREFABRICATED PANEL. REFER TO DETAIL SET 3.
2	INDICATES DEVICES FOR SMARTBOARD PROJECTOR AND TEACHER COMMAND CONSOLE. REFER TO DETAIL SET 3 FOR FURTHER DETAILS AND REQUIREMENTS. EXACT MOUNTING HEIGHT FOR DEVICES TO BE COORDINATED ON SITE WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN. INDICATED DEVICES FOR SMARTBOARD PROJECTOR SHALL BE COORDINATED WITH ARCHITECTURAL ELEVATIONS. CONFIRM EXACT MOUNTING HEIGHTS AND LOCATIONS WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN.
3	PROVIDE PROGRAMMING TO INITIATE ELEVATOR RECALL SEQUENCE WHEN ELEVATOR SHUNT SMOKE DETECTOR IS ACTIVATED. PROVIDE REQUIRED COMPONENTS AND WIRING ACCESSORIES TO ELEVATOR CONTROLLER.
4	PROVIDE PROGRAMMING TO INITIATE ELEVATOR RECALL SEQUENCE WHEN ELEVATOR MACHINE ROOM SMOKE DETECTOR IS ACTIVATED. PROVIDE REQUIRED COMPONENTS, WIRING ACCESSORIES TO ELEVATOR CONTROLLER.
5	MOUNT INDICATED SMOKE DETECTOR AT THE TOP OF ELEVATOR SHUNT.
6	INDICATED HORN TO BE SET TO LOW OR SETTING.
7	REFER TO DETAIL SET 3 FOR RECEPTACLE ASSEMBLY INSTALLATION REQUIREMENTS.
8	REFER TO DETAIL SET 3 FOR EMERGENCY STOP CONTROL REQUIREMENTS FOR TECH ROOM PANEL.
9	MOUNT CONTACTORS INDICATED ON WALL ABOVE PANEL.
10	INDICATES STARTER PROVIDED BY MECHANICAL CONTRACTOR FOR CONTROL OF DUST EXTRACTOR. ELECTRICAL CONTRACTOR SHALL PROVIDE AN ADDITIONAL SET OF DRY CONTACTS WITHIN STARTER C/W LOW VOLTAGE WIRING FOR CONNECTION TO EMERGENCY STOP CONTROL SYSTEM AND ASSOCIATED CONTRACTORS.
11	INDICATES DEVICES FOR FUTURE COMPUTER MONITORATIONS TO BE PROVIDED BY OWNER. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH OWNER PRIOR TO ROUGH-IN.
12	INITIAL INDICATED DEVICES FLUSH MOUNTED IN CONTROL PANEL ADJACENT TO THERMOSTAT.
13	REFER TO DETAIL SET 3 FOR EMERGENCY CONTROL FOR SCIENCE ROOM PANEL.
14	PROVIDE 120V POWER FOR SHADE MOTOR CONTROLLER (SMC) SUPPLIED AND INSTALLED IN C/W AND SPACE FOR SHADE SUPPLIER. PROVIDE ALL WIRING AND INTER CONNECTIONS BETWEEN L.V. SHADE CONTROL, SWITCH BOX AND SHADE CONNECT C/W PREWIRED QUICK CONNECT. REFER TO DETAIL SET 3 FOR FURTHER DETAILS. COORDINATE EXACT LOCATION OF SHADE EQUIPMENT ON SITE WITH SHADE SUPPLIER PRIOR TO INSTALLATION.
15	PROVIDE RECEPTACLE AND DATA OUTLET FOR BAS PANEL. COORDINATE EXACT LOCATION ON SITE WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
16	PROVIDE 120V POWER AND FIRE ALARM CONNECTIONS TO SMOKE/FIRE DAMPER WITH INTEGRAL SMOKE DETECTOR. COORDINATE EXACT LOCATION/CONNECTION REQUIREMENTS WITH MECHANICAL CONTRACTOR. SMOKE/FIRE DAMPER AND ASSOCIATED INTEGRAL SMOKE DETECTOR TO BE PROVIDED AND INSTALLED BY MECHANICAL CONTRACTOR. PROVIDE ONE DUAL CIRCUIT RIT MONITORING MODULE PER SMOKE/FIRE DAMPER. ONE TO SUPPLY 120V POWER SUPPLY CONNECTION TO THE DAMPER ACTUATOR AND ONE FOR INTEGRAL SMOKE DETECTOR ALARM SIGNAL.
17	INDICATES FIRE ALARM SHUTDOWN CONNECTION AT SCIENCE ROOM GAS SOLIDROD. REFER TO FIRE ALARM DISTRIBUTION RISER.
18	INDICATES DIGITAL PLUG LOAD CONTROLLER RELAY PACK AND ASSOCIATED NETWORK BRIDGING WITHIN ACCESSIBLE CEILING SPACE FOR CONTROL OF NOTED AUTOMATICALLY CONTROLLED RECEPTABLES. REFER TO LIGHTING CONTROL DETAILS.
19	INDICATES WIRELESS ACCESS POINT. PROVIDE 2" MIN C/W TO CORRIDOR CEILING SPACE FOR COMMUNICATIONS CONTRACTOR USE.
20	INDICATES MAGNETIC HOLD OPEN DEVICE PROVIDED AS PART OF THIS SCOPE OF WORK. HOLD OPEN DEVICE TO RELEASE UPON SIGNAL FROM FIRE ALARM SYSTEM PER DETAIL. FIRE ALARM RISER DIAGRAM AND SPECIFICATIONS. COORDINATE EXACT LOCATION OF HOLD OPEN DEVICES WITH ARCHITECT. TO SHUT DOOR SWITCH. PROVIDE MOUNTING BRACKET AS REQUIRED.
21	PROVIDE 1-LOT GROUND FAULT RECEPTACLE COMPLETE WITH "HEAVY DUTY IN-USE" WEATHER-PROOF COVER. COORDINATE PLACEMENT WITH MECHANICAL CONTRACTOR. INDICATED DEVICE IS TO BE MOUNTED AT 3" ABOVE FINISHED ROOF LEVEL.
22	PROVIDE 120V 25A RECEPTACLE FOR OWNER SUPPLIED MICROWAVE. COORDINATE EXACT LOCATION WITH ARCHITECTURAL MILLWORK DRAWINGS PRIOR TO ROUGH-IN.
23	INDICATES ZONE CONDUITS TO BE PROVIDED BY ELECTRICAL CONTRACTOR FROM ROOM SHOWN TO CABLE MANAGEMENT SYSTEM FOR COMMUNICATION AND/OR SECURITY CONTRACTORS USE.
24	PROVIDE 120V HANDWIRED POWER CONNECTION C/W JUNCTION BOX AND STEP DOWN TRANSFORMER (120V/240V ABOVE). COORDINATE EXACT LOCATION AND MOUNTING HEIGHT ON SITE WITH MECHANICAL CONTRACTOR AND PLUMBING SHOP DRAWINGS PRIOR TO ROUGH-IN.
25	PROVIDE 120V CONNECTION TO LAVATORY SINK. COORDINATE REQUIREMENTS WITH MECHANICAL CONTRACTOR AND PLUMBING SHOP DRAWINGS PRIOR TO ROUGH-IN.
26	INDICATES RECEPTACLE TO BE MOUNTED AT TOP OF ELEVATOR SHUNT. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT ON SITE WITH ELEVATOR CONTRACTOR PRIOR TO ROUGH-IN.
27	INDICATED DETECTOR C/W RELAY BASE FOR RELEASE OF ELECTROMAGNETIC DOOR HOLDER AS SHOWN. LOCATE DETECTOR WITHIN 10" AND CENTRE OF DOOR BEING HELD OPEN. WHEN INDICATED DEVICE IS IN ALARM, THE ASSOCIATED RELAY IN THE DEVICE BASE IS TO CLOSE AND CAUSE ASSOCIATED DOOR HOLDS TO RELEASE. THROUGH PROGRAMMING, WHEN INDICATED DEVICE IS IN ALARM, THE ASSOCIATED RELAY FROM THE FIRE ALARM PANEL ON GENERAL ALARM SHALL CAUSE DOOR HOLDS TO RELEASE. REFER TO DETAIL.

EQUIPMENT SCHEDULE (TECH....)		
ITEM	DESCRIPTION	RECEPTACLE
A	BELT SANDER	15A 120V 1P
B	DRILL PRESS	15A 120V 1P
C	SCROLL SAW	15A 120V 1P

NOTES: CIRCUIT LABELS		
PROVIDE P-TOUCH LABELS INDICATING PANEL AND CIRCUIT LABEL ON ALL TIGHT SWITCH, LIGHTING CONTROL, STATION, AND RECEPTACLE DEVICE FACILITIES. INCLUDE SWITCH LEG INDICATION FOR LIGHTING CONTROLS AND SWITCHES.		
REFER TO SPECIFICATIONS FOR FURTHER DETAILS AND REQUIREMENTS.		



Professional Engineers
Limited Engineering Licensee
Name: D.G. MCCONKEY
Number: 10020376
Limitations: Detailed design, reporting and specifications for all building electrical systems, site servicing and review of contractors for true systems or new and renovation contractors.
Association of Professional Engineers of Ontario

MILTON #13 PUBLIC SCHOOL

1345 TRUDEAU DRIVE
MILTON, ON

LEGAL DESCRIPTION

PART OF LOT 6, CONCESSION 5
TOWN OF MILTON, REGION OF
HALTON

MILTON DISTRICT SCHOOL BOARD
1100 KINGSTON ROAD
BURLINGTON, ON L7R 2C2
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THIRD FLOOR
POWER & SYSTEMS
PLAN

HOSSACK & ASSOCIATES
ARCHITECTS

15 Northland Road
Windsor, ON N9A 1V8
Phone: (519) 253-0555
Website: hossaack.com
Project Number: 22-01

DEI
Consulting Engineers

MECHANICAL ELECTRICAL AQUATIC

SCALE: As Indicated

PROJECT: 22124

DATE: 26-01-13

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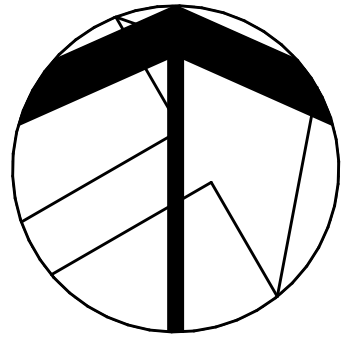
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NOTES: CIRCUIT LABELS

PROVIDE P-TOUCH LABELS INDICATING PANEL AND CIRCUIT LABEL ON ALL LIGHT SWITCH, LIGHTING CONTROL STATION, AND RECEPTACLE DEVICE FACEPLATES. INCLUDE SWITCH LEG INDICATION FOR LIGHTING CONTROLS AND SWITCHES.

REFER TO SPECIFICATIONS FOR FURTHER DETAILS AND REQUIREMENTS.



The contractor shall verify all dimensions and report all errors and discrepancies to the Consultant before commencement of the work.

The drawings show general arrangement of services. Follow as closely as actual building construction will permit. Obtain approval for relocation of service from Consultant before commencement of the work.

The drawings do not indicate all offsets fitting and accessories which may be required. Provide the same to meet the required conditions. Drawings and specifications are prepared and issued by the consultant are the property of the consultant and must be returned at the completion of the project. These documents are not to be duplicated or copied without the consent of the Consultant.

Do not scale this drawing.

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Professional Engineers
Ontario

JM 2006-02-03

Limited Engineering Licensee

Name: D.G. MCCONKEY
Number: 100290476
Limitations: Detailed design, reporting, and specifications for all building electrical systems, site servicing and review of conformity for these systems in new and renovation construction

Association of Professional Engineers of Ontario

1345 TRUDEAU DRIVE
MILTON, ON

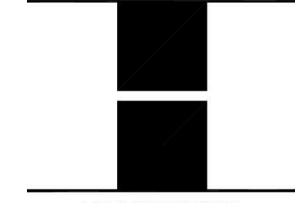
LEGAL DESCRIPTION

PART OF LOT 6, CONCESSION 5
TOWN OF MILTON, REGION OF
HALTON

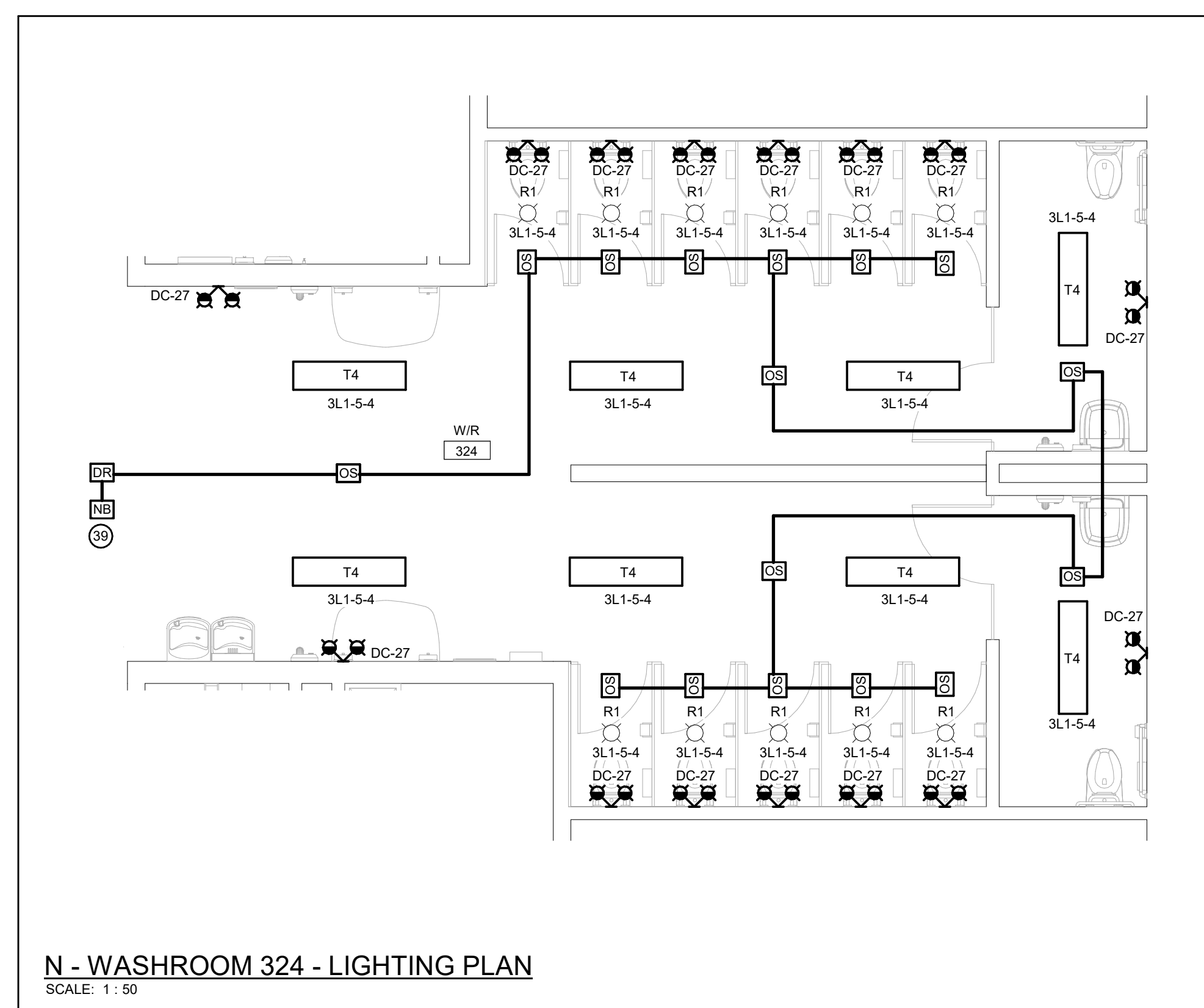
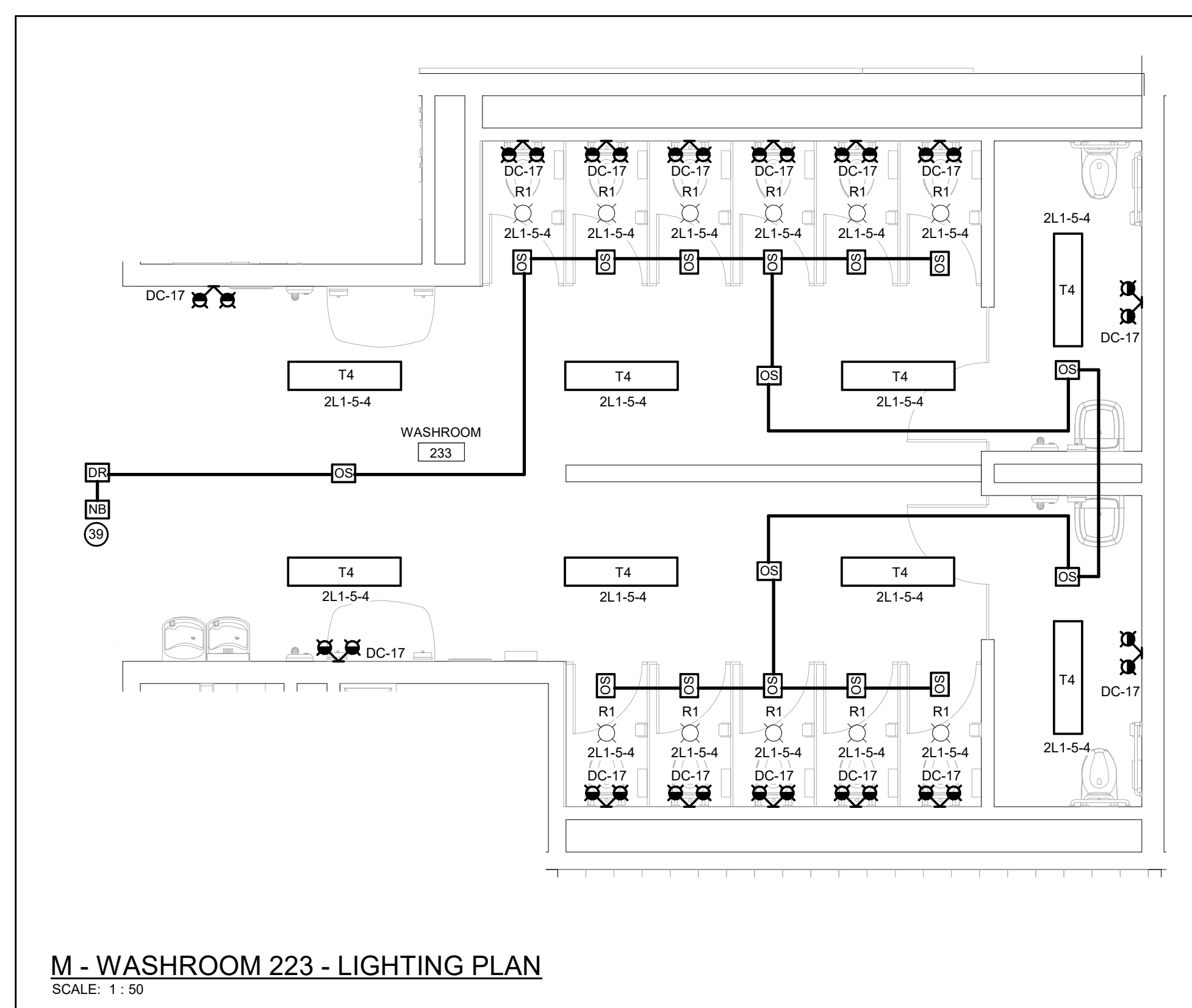
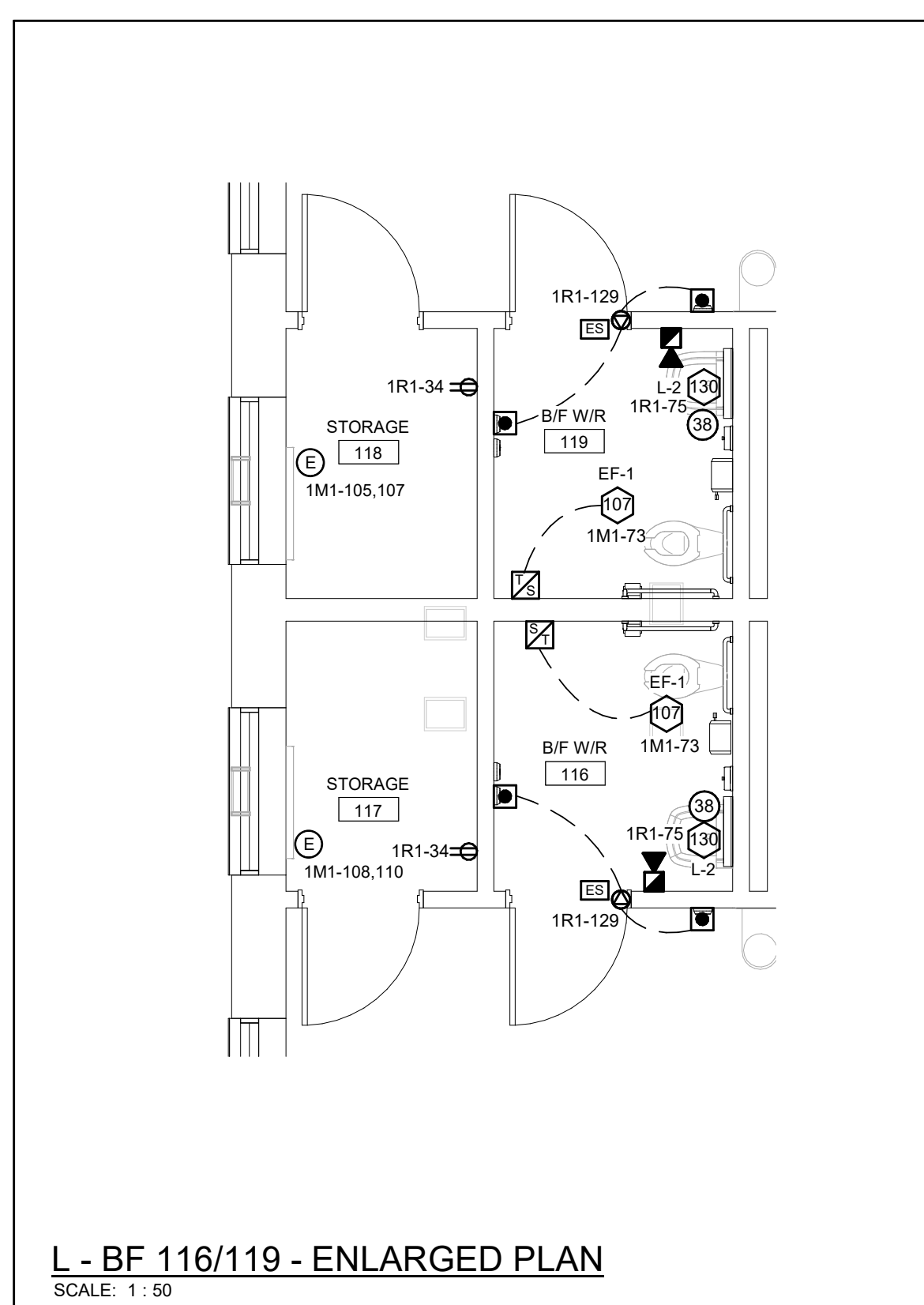
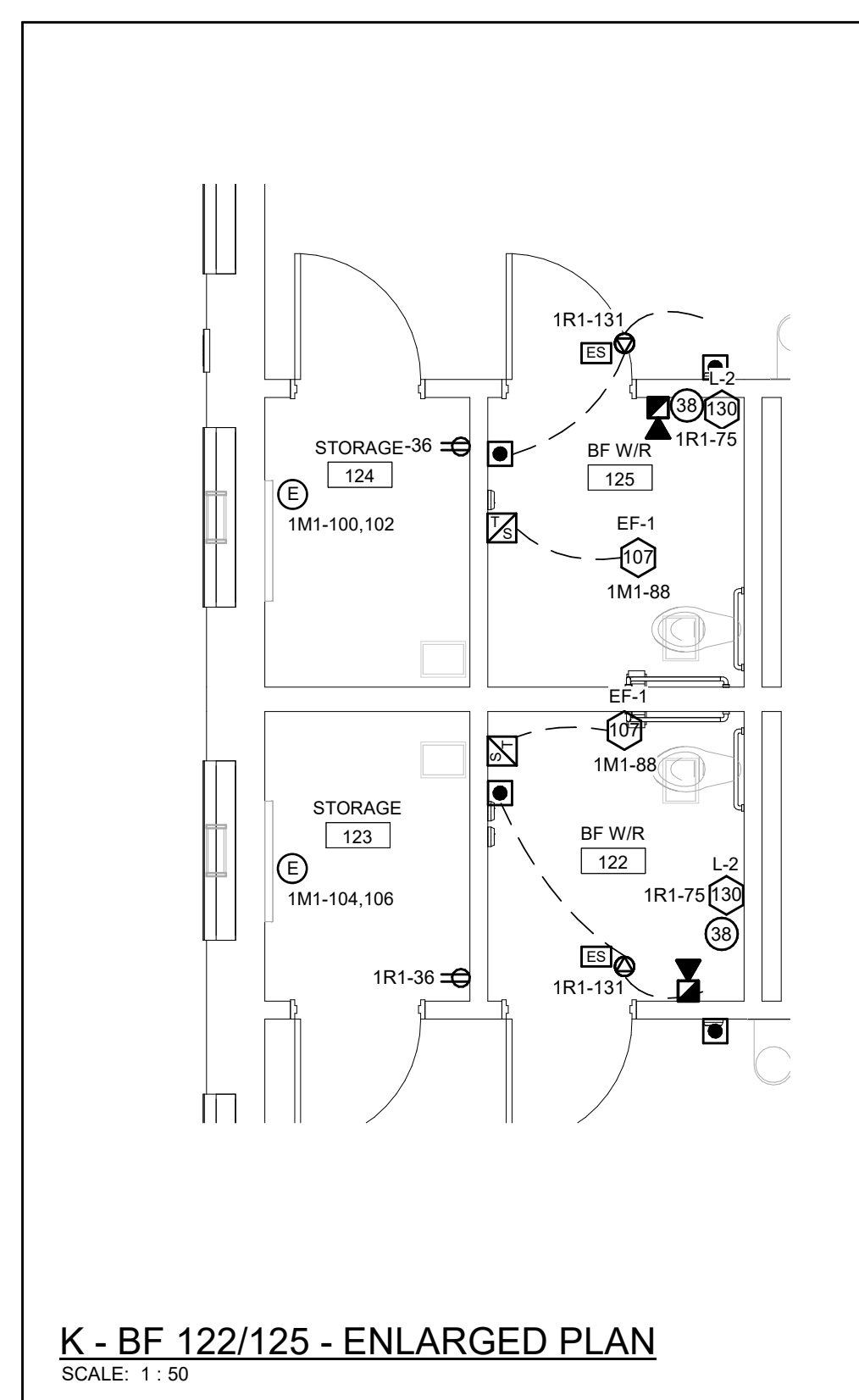
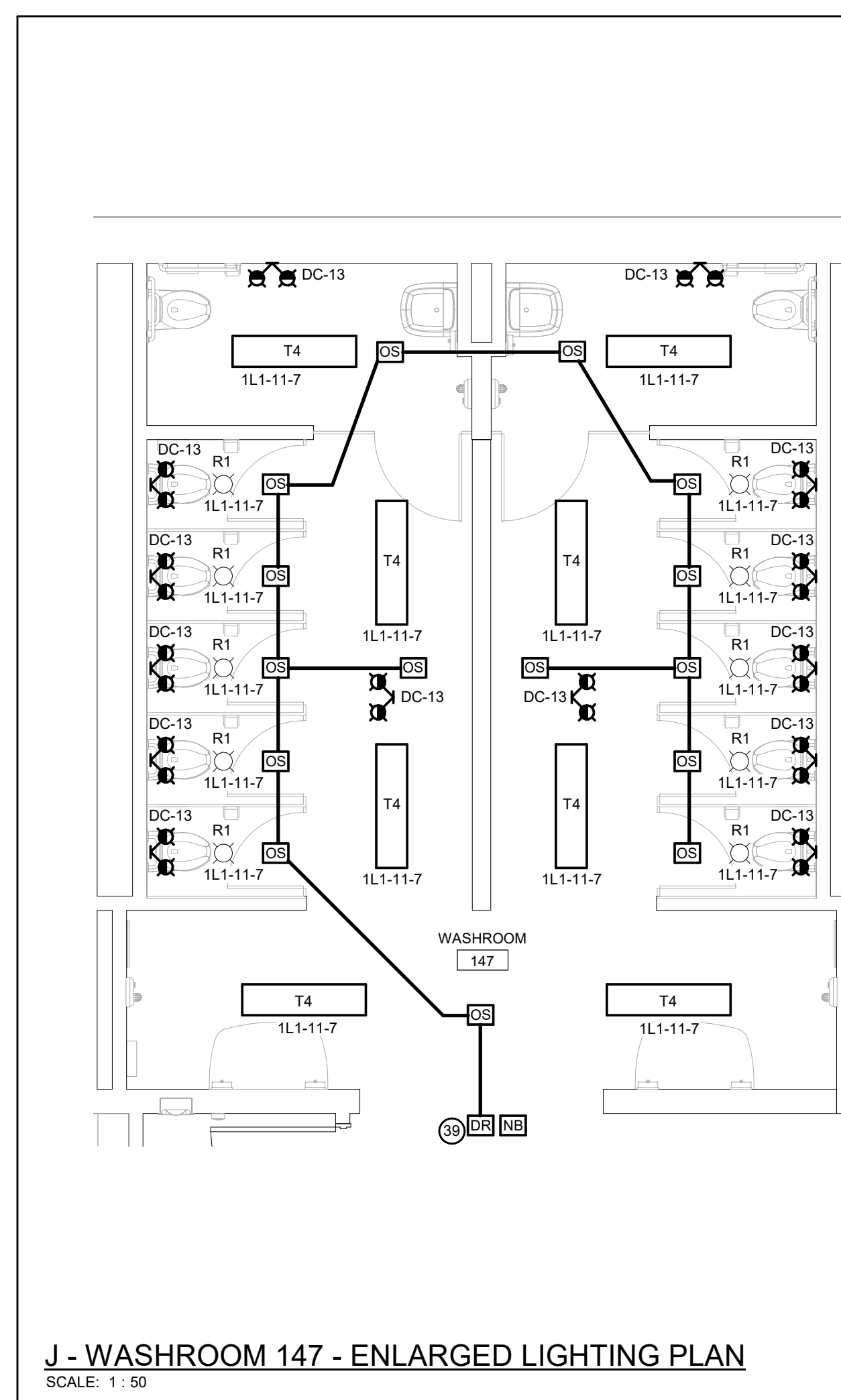
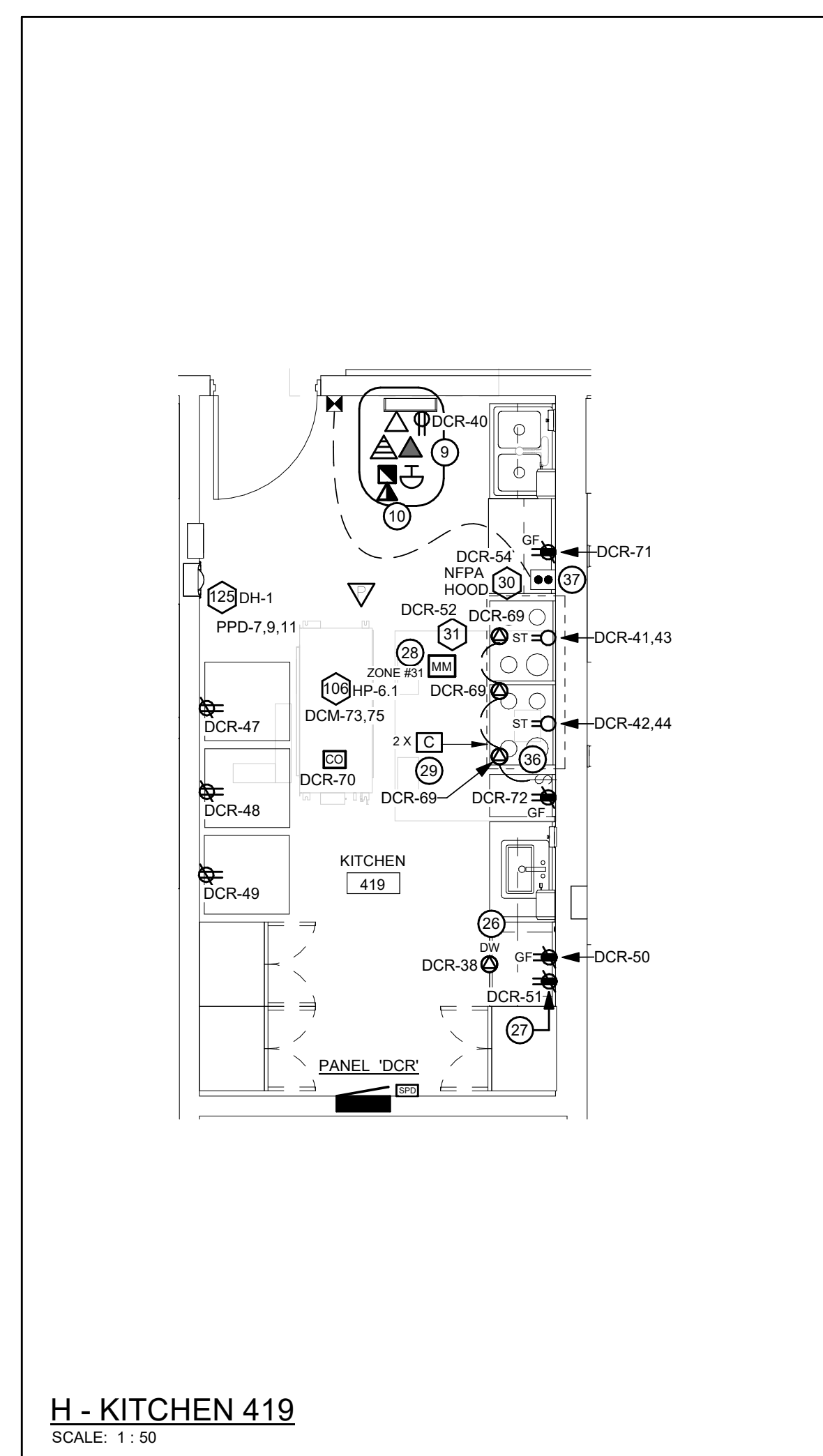
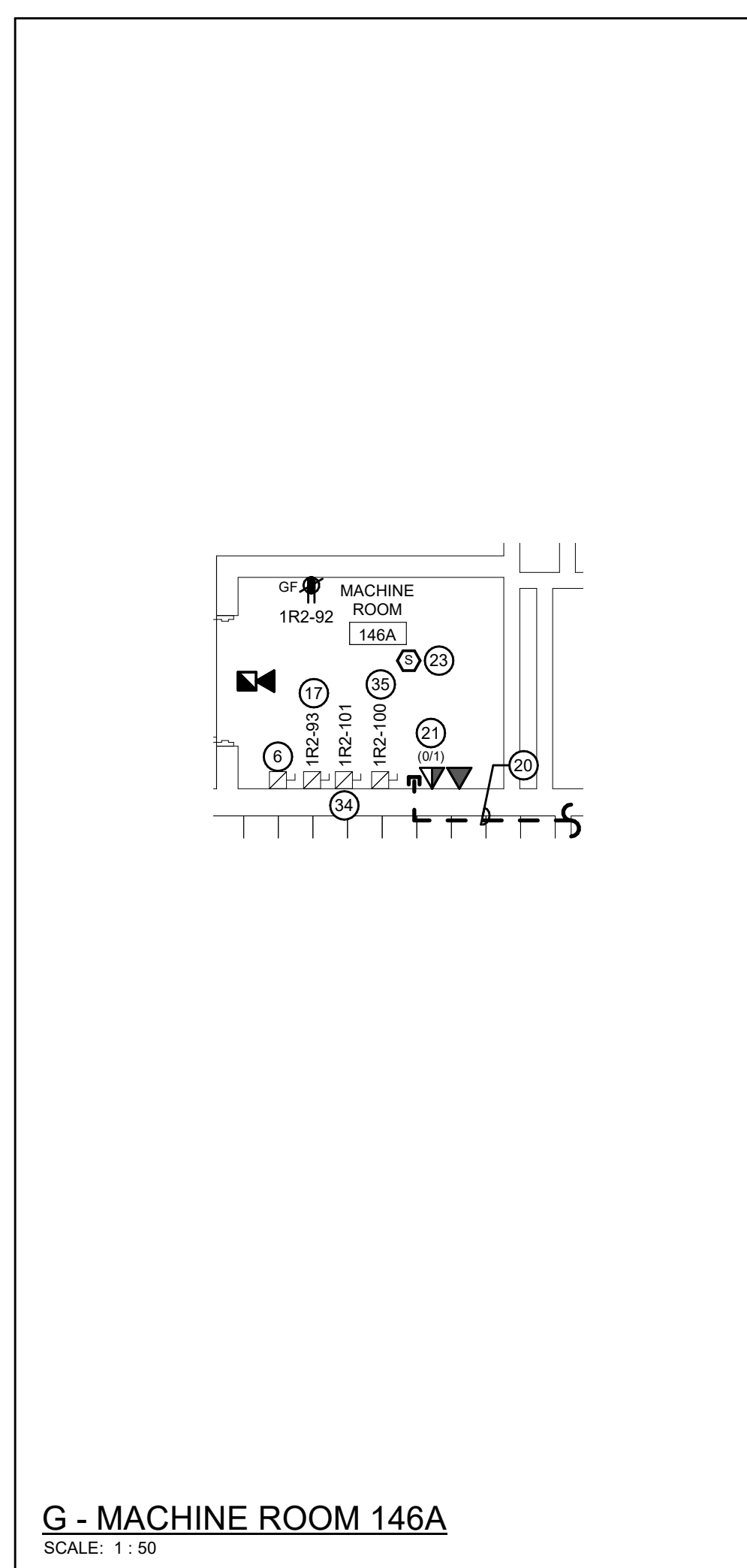
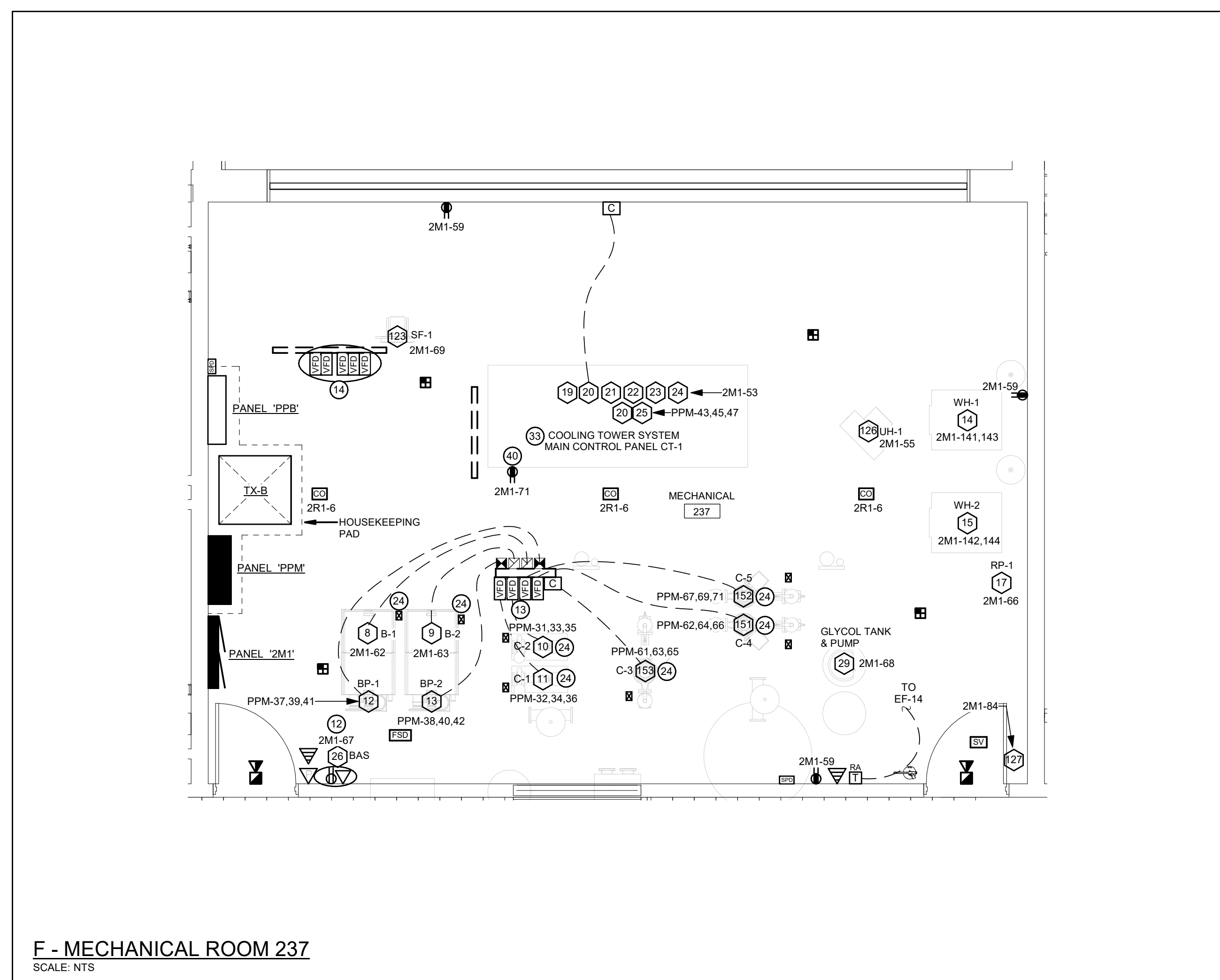
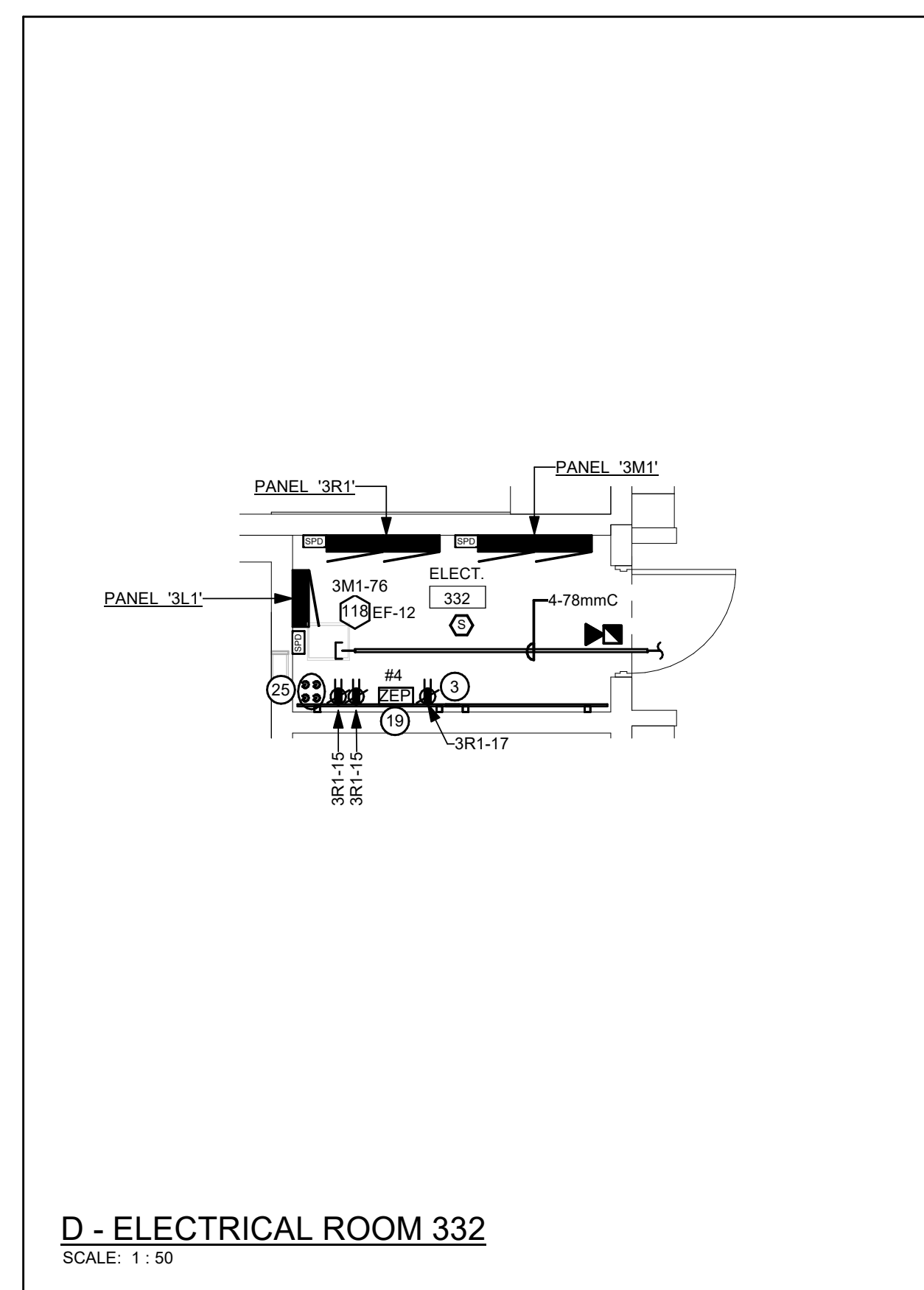
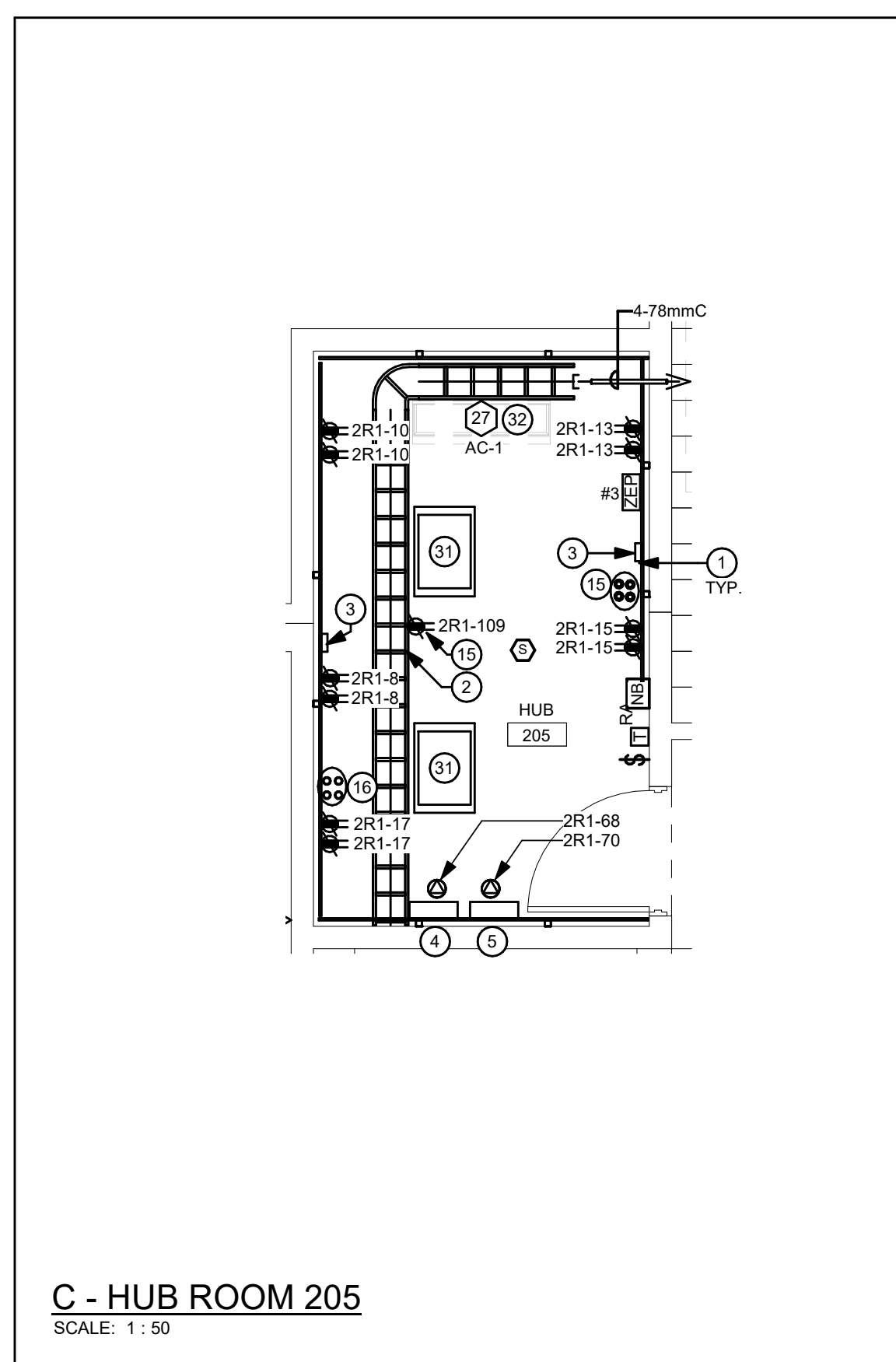
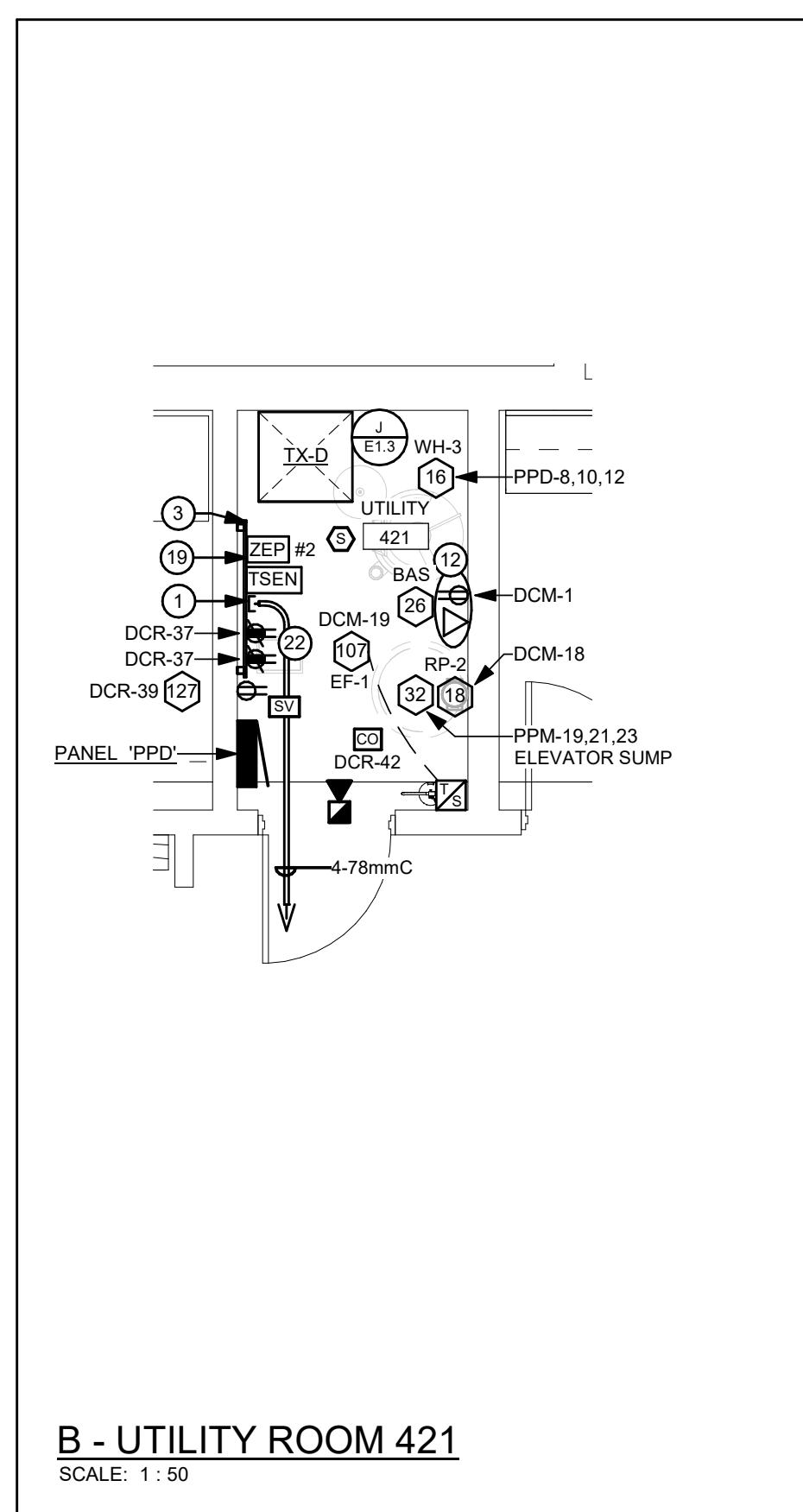
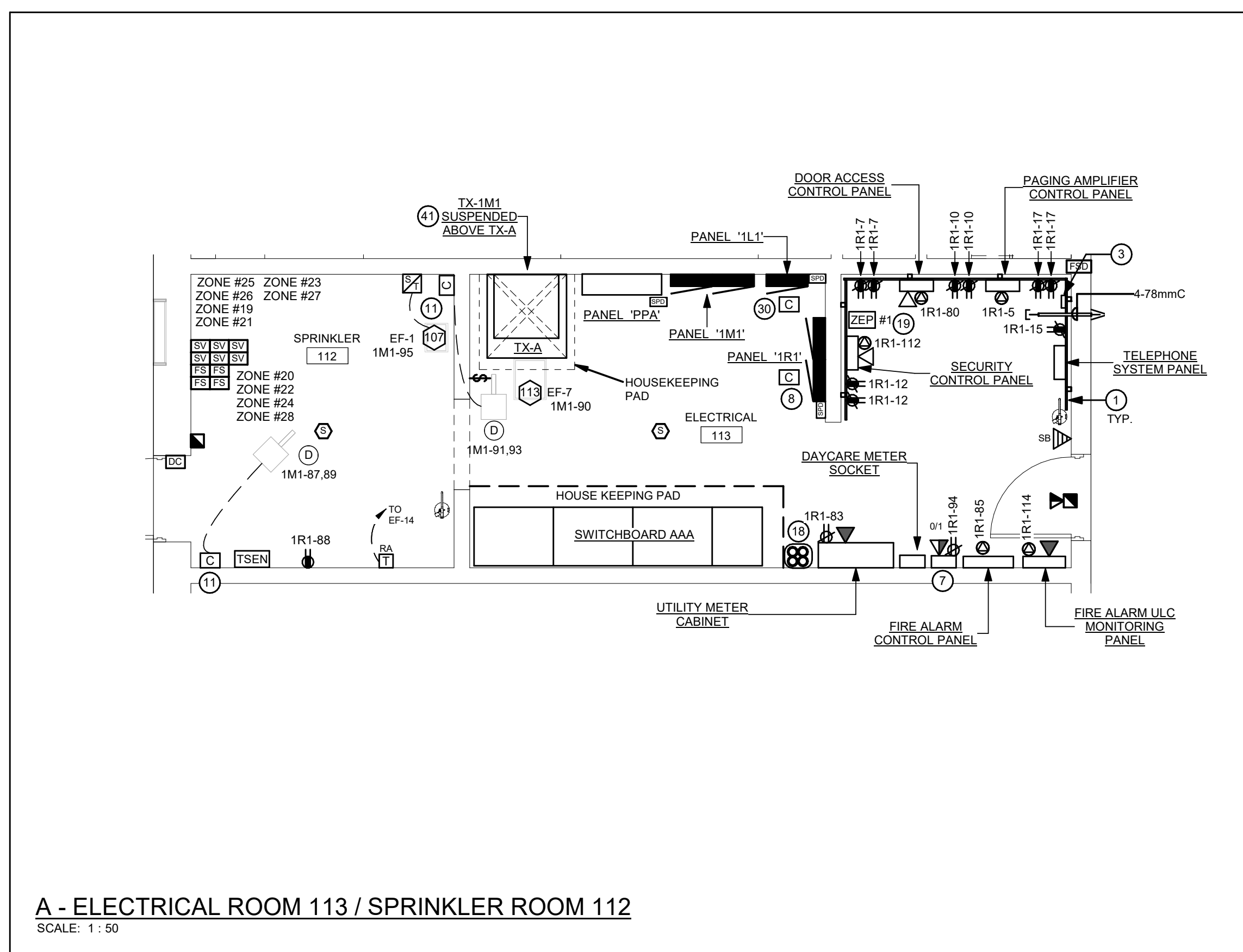
HALTON DISTRICT SCHOOL BOARD
J.W. SINGLETON EDUCATION CENTRE
2050 GUELPH LINE
BURLINGTON, ON, L7R 3Z2
TEL. (905) 335-3663
FAX (905) 335-9602

ROOF PLAN

**HOSSACK
& ASSOCIATES
ARCHITECTS**



4-555 DUNWIN C497E
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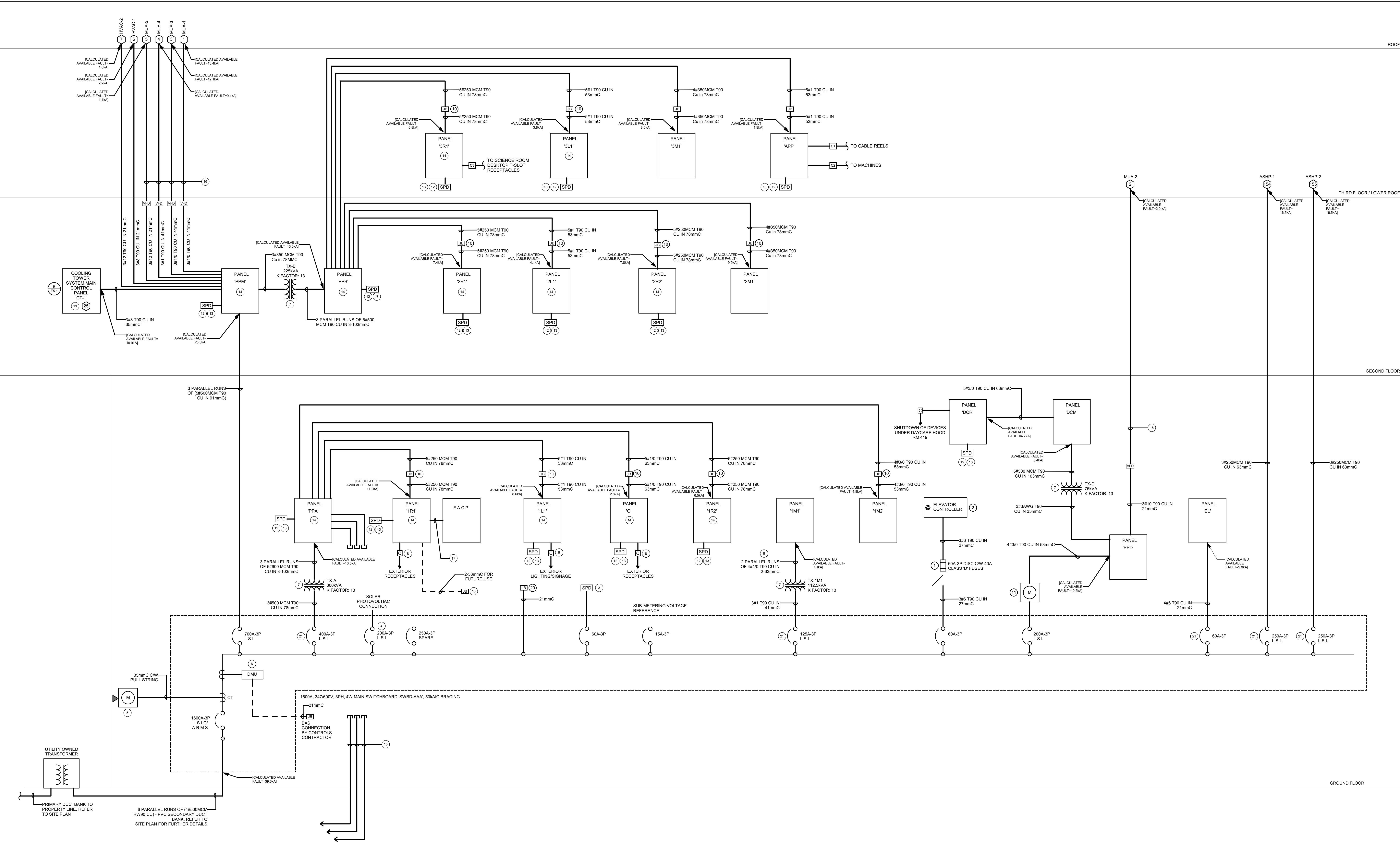
- ## GENERAL NOTES
- A ALL RECEPTABLES ARE TO BE TAPER RESISTANT TYPE PER LATEST EDITION OF THE NATIONAL ELECTRICAL CODE
 - B ALL RECEPTABLES EXPOSED TO WEATHER ARE TO BE PROVIDED WITH WEATHER-RESISTANT TYPE PLUGS
 - C EXACT LOCATION OF ALL DEVICES AND RESPECTIVE HEIGHTS TO BE DETERMINED BY THE ARCHITECT AND NOTED ON THE DRAWINGS TO BE PROVIDED TO THE CONTRACTOR
 - D ALL ELECTRICAL AND MECHANICAL REQUIREMENTS AND EXACT LOCATION OF ALL EQUIPMENT WITH MECHANICAL CONTRACTOR PRIOR TO THE START OF THE PROJECT
 - E ROUTE ALL CONDUIT SYSTEMS AROUND DUCT WORK, BEAMS AND PIPING AS REQUIRED TO ACCOMMODATE AN INSTALLATION REFER TO THE ARCHITECT FOR THE LOCATION OF ALL DEVICES, DEVICES AND REQUIREMENTS
 - F PROVIDE ALL MATERIALS TO NOT EXCEED 150 POUNDS AS SUBSTITUTES FOR MORE DENSE BENS
 - G COULD BE USED FOR THE INSTALLATION OF DEVICES PROVIDED BY ELECTRICAL CONTRACTOR SHALL BE CULP FOLLOWING THE REQUIREMENTS OF THE NEC, BUT NOT BEING AND SUBMITTED TO THE ARCHITECTS
 - H PROVIDE 150 POUNDS AS ALL 120V CIRCUITS EXCEEDING 30 FEET IN LENGTH
 - I ALL SMOKE ALARMS SPECIFIED WITHIN CHILDE CARE CLASSROOMS AND CLASSROOMS SHALL BE BATTER OPERATED AND HAVE AN ALARM CABLES ALIGNED TO A SOUND
 - J PROVIDE ALL ELECTRICAL SUPPLIES TO BE HAND HANDS INSTALLED IN WARDROOMS TO MEET THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE
 - K PROVIDE TO PANEL SCHEDULE FOR FURTHER DETAILS AND

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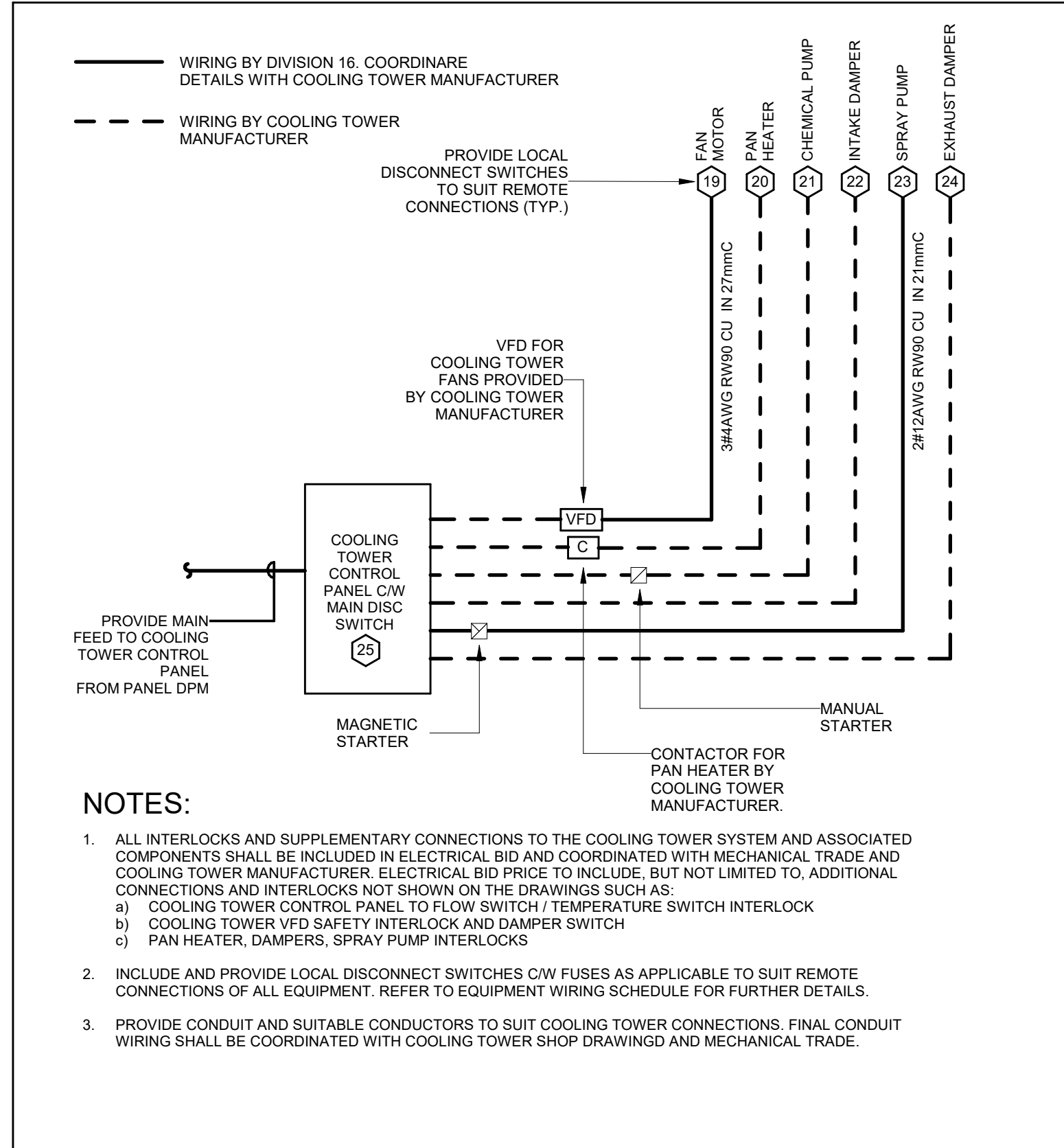
**HOSSACK
& ASSOCIATES
ARCHITECTS**



A - DISTRIBUTION RISER
SCALE: NTS

BRANCH CIRCUIT VOLTAGE DROP NOTES			
REFERENCE MAXIMUM BRANCH CIRCUIT LENGTHS FOR TYPICAL CONDUCTOR SIZES PER OESC 2018 RULE 2-1102 BASED ON MAXIMUM CONNECTED LOAD ON 80% RATED BRANCH CIRCUITS, 75C RATING, MAXIMUM 3% VOLTAGE DROP.			
CONDUCTOR	BRANCH CIRCUIT BREAKER	RECOMMENDED MAXIMUM CIRCUIT LENGTH	
#12 AWG CU	15A-1P, 120V	23.8M / 77FT	
#10 AWG CU	15A-1P, 120V	37M / 121FT	
#8 AWG CU	15A-1P, 120V	59M / 193FT	
#6 AWG CU	20A-1P, 120V	17.5M / 57FT	
#10 AWG CU	20A-1P, 120V	27.5M / 90FT	
#8 AWG CU	20A-1P, 120V	44M / 144FT	
#6 AWG CU	15A-1P, 347V	52M / 172FT	
#10 AWG CU	15A-1P, 347V	80M / 262FT	
#18 AWG CU	15A-1P, 347V	128M / 423FT	

COORDINATE BRANCH CIRCUIT ROUTES ON SITE TO MINIMIZE CIRCUIT LENGTHS. INCLUDE IN BID ALL REQUIRE BRANCH CIRCUIT CONDUIT AND CONDUIT UPSIZING TO SUIT FINAL INSTALLED BRANCH CIRCUIT LENGTHS IN ORDER NOT TO EXCEED MAXIMUM CODE ALLOWABLE VOLTAGE DROP, UNLESS OTHERWISE NOTED. ANY BRANCH CIRCUIT LENGTHS WHICH EXCEED THOSE LISTED HERE SHALL BE BROUGHT TO THE ATTENTION OF THE CONSULTANT IN WRITING PRIOR TO INSTALLATION. INCLUDE APPROVED CONDUCTOR REDUCERS TO SUIT BRANCH BREAKER AND WIRING DEVICE MAXIMUM CONDUCTOR LUG SIZES.



B - COOLING TOWER CONNECTION DETAIL
SCALE: NTS

GENERAL DISTRIBUTION RISER NOTES	
A	RISER IS DIAGRAMMATIC ONLY. REFER TO FLOOR PLANS FOR LOCATION OF ALL DISTRIBUTION EQUIPMENT AND FURTHER REQUIREMENTS.
B	REFER TO SPECIFICATIONS FOR FURTHER INFORMATION REGARDING MOULDED CASE CIRCUIT BREAKERS.
C	ALL BREAKERS SHALL BE SOLID STATE TYPE C.W. LONG, SHORT, INSTANTANEOUS (I.S.) SETTINGS OR LONG, SHORT, INSTANTANEOUS, GROUND FAULT (I.S.G.) SETTINGS AS NOTED. FINAL SETTINGS PER COORDINATION STUDY.
D	PROVIDE GROUND WIRE IN ALL BRANCH CIRCUITS AND FEEDERS TO SUIT THE ONTARIO ELECTRICAL SAFETY CODE.
E	ALL BRANCH CIRCUITS FROM SPD PROTECTED PANELS ARE TO BE PROVIDED WITH SEPARATE NEUTRALS. SEE BRANCH CIRCUITS ACCORDINGLY.
F	ALL LIGHTING CIRCUITS ARE TO BE PROVIDED WITH SEPARATE NEUTRALS. SEE BRANCH CIRCUITS ACCORDINGLY.
G	ALL DISTRIBUTION EQUIPMENT ARE TO BE PROVIDED WITH WARNING LABELS CONFORMING TO THE ONTARIO ELECTRICAL SAFETY CODE RULE #2-309(1) (2) TO THE ONTARIO ELECTRICAL SAFETY CODE RULE #2-309(1) (2) (RANGE WITH OESC 4640(1)).
H	REFER TO PANEL SCHEDULES FOR NUMBER OF CIRCUITS AND FURTHER DETAILS.
I	ALL CONDUCTORS FOR THE FIRE ALARM SYSTEM SHALL BE INSTALLED IN A SEPARATE ENCLOSED CONDUIT SYSTEM.
J	ALL NOTED FEEDERS ARE FOR OVERHEAD RUNS OF CONDUIT UNLESS OTHERWISE NOTED.
K	ALL BRANCH CIRCUITS SERVING EXT SIGNS SHALL BE DEDICATED FOR THAT PURPOSED AND SHARED WITH NO OTHER LOADS IN CONFORMANCE WITH OESC 4640(1).

SPECIFIC DISTRIBUTION RISER NOTES	
1	DISCONNECT SWITCH INDICATED FOR ELEVATOR CONTROL PANEL MUST BE LOCKABLE (I.E. EQUIPPED WITH MEANS FOR LOCKING IT IN THE OPEN POSITION). PROVIDE TWO (2) SETS OF ELEVATOR RATED AUXILIARY CONTACTS TO SUIT THE ELEVATOR CONTRACTOR. COORDINATE EXACT LOCATION TO MOUNT DISCONNECT SWITCH ON SITE WITH ELEVATOR CONTRACTOR.
2	CONNECTIONS TO THE LINE SIDE OF ELEVATOR CONTROL PANEL SHALL BE UNDER THE DIRECT GUIDANCE OF THE ELEVATOR CONTRACTOR. CONFIRM ALL POWER, DISCONNECT SWITCH AND CONTROL WIRING REQUIREMENTS WITH ELEVATOR SHOP DRAWINGS PRIOR TO PROCEEDING AND INSTALLING ELECTRICAL REQUIREMENTS.
3	MAIN SWITCHBOARD: AAA SURGE PROTECTION DEVICE (SPD) SHALL BE RATED PER SPECIFICATIONS AND SHALL BE EXTERNAL TO SWITCHBOARD. INCLUDE FOR 3P 3P BRANCH DEVICE IN BASE BID AND ALLOWABLE SPACE IN SWITCHBOARD. OBSERVE MAXIMUM LEAD LENGTHS TO SUIT MANUFACTURER'S RECOMMENDATIONS.
4	INDICATES 200A BREAKER FOR FUTURE SOLAR PHOTOVOLTAIC SYSTEM CONNECTION.
5	INDICATES 15A METER CABLE (15mm x 15mm x 24mm) TO BE PROVIDED BY ELECTRICAL CONTRACTOR. CONFIRM DIMENSIONS WITH UTILITY PRIOR TO INSTALLATION.
6	PROVIDE DIGITAL POWER METERING UNIT FOR MAIN BREAKER C.W. SET OF OUTPUT CONTACTS CONFIGURED FOR BACNET-IP COMMUNICATIONS AND INTERFACING OF MONITORED PARAMETERS TO BAS SYSTEM. REFER TO SPECIFICATIONS FOR FURTHER DETAILS AND REQUIREMENTS.
7	INDICATES TRANSFORMER WITH NAME, K FACTOR AND KVA RATING AS NOTED C.W. PRIMARY OF 600V 3PH 3W, SECONDARY OF 120/208V 3PH 3W AND 1% MINIMUM OF 1%.
8	PROVIDE 100V 2A CONTACTORS FOR CONTROL OF ALL EXTERIOR RECEPTACLES. CONTACTORS SHALL BE COMPLETE WITH 24V INTEGRAL CONTROL TRANSFORMER, HAND-OPERATED SELECTOR SWITCH, AND RED PILOT LIGHT AS REQUIRED. REFER TO PANEL SCHEDULES FOR QUANTITY OF CIRCUITS AND NUMBER OF CONTACTORS REQUIRED. PROVIDE A SET OF OUTPUT CONTACTS FOR CONNECTION TO BAS SYSTEM. COORDINATE DETAILS AND CONNECTION REQUIREMENTS WITH BAS CONTRACTOR.
9	PROVIDE 120V 2A CONTACTORS FOR CONTROL OF ALL EXTERIOR LIGHTING AND SIGNAGE. CONTACTORS SHALL BE COMPLETE WITH 24V INTEGRAL CONTROL TRANSFORMER, HAND-OPERATED SELECTOR SWITCH, AND RED PILOT LIGHT AS REQUIRED. REFER TO PANEL SCHEDULES FOR QUANTITY OF CIRCUITS AND NUMBER OF CONTACTORS REQUIRED. PROVIDE A SET OF OUTPUT CONTACTS FOR CONNECTION TO BAS SYSTEM. COORDINATE DETAILS AND CONNECTION REQUIREMENTS WITH BAS CONTRACTOR.
10	PROVIDE JUNCTION BOX IN CEILING SPACE ABOVE PANEL, AS SHOWN FOR FUTURE TIE-IN OF MULTIPLE SUB-METERING PANEL TO MEET THE REQUIREMENTS.
11	PROVIDE NEW 1/2" JAW 60V 30 METER SOCKET AND METER REVENUE GRADE FOR MEASUREMENT PURPOSES ONLY FOR MONITORING OF DYNAMIC CENTER DISTRIBUTION METER TO BE PROVIDED WITH OUTPUT CONTACTS FOR CONNECTION TO BAS SYSTEM. COORDINATE DETAILS AND CONNECTION REQUIREMENTS WITH BAS CONTRACTOR. REFER TO SPECIFICATIONS FOR FURTHER DETAILS AND REQUIREMENTS.
12	MAIN SPD TO SIDE OF PANELBOARD WITH CLOSE CONDUIT RIPLE. LOCATE AT APPROPRIATE HEIGHT RELATIVE TO BRANCH DEVICE TO MINIMIZE LEAD LENGTHS ACCORDING TO MANUFACTURER'S RECOMMENDATIONS. REFER TO SPECIFICATIONS FOR FURTHER DETAILS AND REQUIREMENTS.
13	DISTRIBUTION PANEL SURGE PROTECTION DEVICE (SPD) SHALL BE RATED PER SPECIFICATIONS AND SHALL BE EXTERNAL TO PANEL. MANUFACTURER'S RECOMMENDATIONS.
14	INDICATES PANELBOARD PROTECTED BY EXTERNAL SURGE PROTECTION PER SPECIFICATIONS C.W. 200A NEUTRAL BUS AND 200A 4S FEEDER NEUTRAL AS NOTED. REFER TO COMMUNICATIONS RISER REGARDING SURGE PROTECTION FOR INCOMING COMMUNICATIONS SERVICES.
15	INDICATES 100mmC TUBED-UP WITH PANEL PPA FOR FUTURE PORTABLES. REFER TO SITE PLAN FOR CONTINUATION.
16	PROVIDE VFD CABLE FROM VFD TO MOTOR. EQUIVALENT TO AMER CABLE 37-000 SERIES (2X).
17	PANEL INDICATED DEVICE RED TO SUIT THE ELECTRICAL SAFETY CODE.
18	INDICATES WEATHERPROOF GRADE LEVEL JUNCTION BOX. REFERENCE SITE PLAN FOR FURTHER INFORMATION.
19	PROVIDE 800V 150A CONDUIT IN REFEEDER DRAWING C.W. IN 35mmC C.W. DISCONNECT SWITCH TO COOLING TOWER SYSTEM MAIN CONTROL PANEL. PROVIDED AS PART OF A PACKAGE BY MECHANICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL INCLUDE ALL INTERLOCKS AND SUPPLEMENTARY CONNECTIONS TO BE REQUIRED BY COOLING TOWER SYSTEM AND VARIOUS COOLING TOWER EQUIPMENT AS REQUIRED BY THE MANUFACTURER. REFER TO COOLING TOWER SHOP DRAWINGS AND COORDINATE ALL DETAILS AND REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO CARRYING OUT SCOPE OF WORK. REFER TO EQUIPMENT WIRING SCHEDULE AND DETAIL BEE-1 FOR FURTHER INFORMATION.
20	PROVIDE CONNECTION TO SWITCHBOARD C.W. CONDUIT AS NOTED TO JUNCTION BOX MOUNTED ADJACENT TO SWITCHBOARD FOR FUTURE MULTI-POINT SUB-METERING SYSTEM.
21	PROVIDE A PERMANENTLY MOUNTED LABEL ON BREAKER NOTED INDICATING THE MAXIMUM ALLOWABLE SIZE PERMITTED FOR CONTINUOUS OPERATION. MARKING SHALL COMPLY WITH OESC RULE 2-100 #3.
22	INDICATES CONTACTORS FOR EMERGENCY CONTROL OF CABLE REELS AND MACHINES WITH APPLICATIONS SEE.

ROOF

THIRD FLOOR / LOWER ROOF

SECOND FLOOR

GROUND FLOOR

3 ISSUED FOR TENDER 2026-02-03

2 ISSUED FOR 100% COORDINATION 2026-01-16

1 ISSUED FOR PERMIT 2026-03-21

NO DESCRIPTION DATE

The contractor shall verify all dimensions and report all errors and discrepancies to the Consultant before commencement of the work.

The drawings show general arrangement of services. Follow as closely as actual building construction will permit. Obtain approval for relocation of service from Consultant before commencement of the work.

The drawings do not indicate all offsets, fittings and accessories which may be required. Provide the same to meet the required conditions. Drawings and specifications, etc., prepared and issued by the consultant are the property of the consultant and must be returned at the completion of the project. These documents are not to be duplicated or copied without the consent of the Consultant.

Do not scale the drawings.

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Professional Engineer 2026-02-03

Limited Engineering Licensee

Name: D.G. MCCONKEY

Number: 100230476

Licensure: Design, design, reporting and specifications for all building electrical systems, the servicing and review of contractors for these systems in new and renovation construction.

Association of Professional Engineers of Ontario

MILTON #13 PUBLIC SCHOOL

1345 TRUDEAU DRIVE MILTON, ON

LEGAL DESCRIPTION

PART OF LOT 6, CONFESSION 5 TOWN OF MILTON, REGION OF HALTON

MILTON DISTRICT SCHOOL BOARD

1345 TRUDEAU DRIVE MILTON, ON L7R 1S2

TEL: (905) 335-3683

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DISTRIBUTION RISER DIAGRAM

HOSSACK & ASSOCIATES ARCHITECTS

15 Northland Road, Milton, ON L7R 1S2

Phone: (905) 875-2254

Mobile: (416) 223-2254

Project Number: 22124

DEI Consulting Engineers

MECHANICAL ELECTRICAL / AQUATIC

SCALE: AS NOTED PROJECT: 22124

DATE: 26-01-13

DRAWN: CT DRAWING: E5.1

CHECKED: DM

PRINT DATE: 2026-02-03 1:58:40 PM

REVIT FILE: T:\2026\1712302\Revit\RYT

GENERAL NOTES	
A	AUTOMATICALLY CONTROLLED RECEPTACLES (AC) FED FROM ANY PANEL SHALL BE GREEN IN COLOUR AND PERMANENTLY MARKED PER SPECIFICATIONS

PANEL PPA												
MAINS: 1000.0 A MOUNTING: SURFACE			VOLTAGE: 120/208V NEUTRAL BUS: 200.00C					INTER interrupting... 22,000A ENCLOSURE: TYPE 2				
CKT	Load Name	Type	Rating	Poles	A	B	C	Poles	Rating	Type	Load Name	CKT
1		SPACE	--	--	1							2
2		SPACE	--	--	1							4
5		SPACE	--	--	1							6
7												8
9	PANEL 1L1		100.0 A	3							PANEL 1R2	10
11												12
13												14
15	PANEL 1M2	LSI	200.0 A	3							PANEL G	16
17												18
19												20
21	FUTURE PORTABLES (LSI)	--	250.0 A	3							FUTURE PORTABLES (LSI)	22
23												24
25												26
27	FUTURE PORTABLES (LSI)	--	250.0 A	3								28
29												30
31	SPACE	--	--	1							SPACE	32
33	SPACE	--	--	1							SPACE	34
35	SPACE	--	--	1							SPACE	36
37	SPACE	--	--	1							SPACE	38
39	SPACE	--	--	1							EXTERNAL SPD	40
41	SPACE	--	--	1								42
NOTES:												
THE CONTRACTOR IS TO COORDINATE ROOM NAMES AND NUMBERS NOTED WITH THE FINAL ROOM INFORMATION ISSUED DURING CONSTRUCTION AND ADJUST DIRECTORIES TO SUIT.												

PANEL PPM														
MAINS: 800.0 A MOUNTING: SURFACE			VOLTAGE: 347/600V NEUTRAL BUS: 200.00%			INTER interrupting... 35,000A ENCLOSURE: TYPE 2								
CKT	Load Name	Type	Rating	Poles	A	B	C	Poles	Rating	Type	Load Name	CKT		
1	TRANSFORMER TX-B	LSI	300.0 A	3					3	15.0 A	DUCT HEATERS (DH-12DH-13)	2		
3												4		
5												6		
7												8		
9	DUCT HEATERS (DH-6DH-7)		15.0 A	3					3	150.0 A	MAKE UP AIR UNIT (MUA-1)	10		
11												12		
13												14		
15												16		
17	MAKE UP AIR UNIT (MUA-3)		150.0 A	3						3	125.0 A	MAKE UP AIR UNIT (MUA-4)	18	
19													20	
21													22	
23													24	
25	ELEVATOR SLUMP PUMP		15.0 A	3						3	30.0 A	MAKE UP AIR UNIT (MUA-5)	26	
27													28	
29													30	
31													32	
33	HVAC UNIT (HVAC-1)		45.0 A	3							3	15.0 A	HVAC UNIT (HVAC-2)	34
35														36
37														38
39														40
41	CIRCULATION PUMP (C-1) - MECH RM 237		40.0 A	3							3	40.0 A	CIRCULATION PUMP (C-2) - MECH RM 237	42
43														44
45														46
47														48
49	BOILER PUMP (BP-1) - MECH RM 237		15.0 A	3							3	15.0 A	BOILER PUMP (BP-2) - MECH RM 237	50
51														52
53														54
55														56
57	COOLING TOWER SYSTEM (CT-1)		100.0 A	3							3	15.0 A	DUCT HEATERS (DH-10DH-11)	58
59														60
61														62
63														64
65	DUCT HEATERS (DH-2DH-3)		15.0 A	3							3	15.0 A	DUCT HEATERS (DH-4DH-5)	66
67														68
69														70
71														72
73	DUCT HEATERS (DH-8DH-9)		15.0 A	3							3	15.0 A	DUCT HEATERS (DH-14DH-15)	74
75														76
77														78
79														80
81	INLINE PUMP C-3		15.0 A	3							3	25.0 A	GLYCOL PUMP C-4	82
83														84
85														86
87														88
89	GYCOL PUMP C-5		25.0 A	3							1	--	SPACE	90
91														92
93														94
95														96
97	SPACE		--	--	1	1					1	--	SPACE	98
99														100
101														102
103														104
105	SPACE		--	--	1	1					1	--	SPACE	106
107														108
109														110
111														112
113	SPACE		--	--	1	1					1	--	SPACE	114
115														116
117														118
119														120
121	SPACE		--	--	1	1					1	--	SPACE	122
123														124
125														126
127														128
129	SPACE		--	--	1	1					3	30.0 A	EXTERNAL SPD	130
131														132
133														134
135														136
NOTES:													138	
TYPE GFI BREAKER INDICATES 5mA GROUND FAULT STYLE BREAKER.													140	
THE CONTRACTOR IS TO COORDINATE ROOM NAMES AND NUMBERS NOTED WITH THE FINAL ROOM INFORMATION ISSUED DURING CONSTRUCTION AND ADJUST DIRECTORIES TO SUIT.													142	

PANEL PPB												
MAINS: 1000.0 A MOUNTING: SURFACE			VOLTAGE: 120/208V NEUTRAL BUS: 200.00%						INTERRUPTING... 22,000A ENCLOSURE: TYPE 2			
CKT	Load Name	Type	Rating	Poles	A	B	C	Poles	Rating	Type	Load Name	CKT
1												2
3	PANEL 2R1	LSI	200.0 A	3				3	100.0 A		PANEL 2L1	4
5												6
7												8
9	PANEL 2M1	LSI	400.0 A	3				3	200.0 A	LSI	PANEL 2R2	10
11												12
13												14
15	PANEL 3R1	LSI	200.0 A	3				3	100.0 A		PANEL 3L1	16
17												18
19												20
21	PANEL 3M1	LSI	300.0 A	3				3	60.0 A		PANEL APP	22
23												24
25	SPACE	--	--	1				1	--	SPACE		26
27	SPACE	--	--	1				1	--	SPACE		28
29	SPACE	--	--	1				1	--	SPACE		30
31	SPACE	--	--	1				1	--	SPACE		32
33	SPACE	--	--	1				1	--	SPACE		34
35	SPACE	--	--	1				1	--	SPACE		36
37	SPACE	--	--	1				1	--	SPACE		38
39	SPACE	--	--	1				3	50.0 A	--	EXTERNAL SPD	40
41	SPACE	--	--	1								42
NOTES:												
THE CONTRACTOR IS TO COORDINATE ROOM NAMES AND NUMBERS NOTED WITH THE FINAL ROOM INFORMATION ISSUED DURING CONSTRUCTION AND ADJUST DIRECTORIES TO SUIT.												

PANEL 3M1												
MAINS: 400.0 A MOUNTING: SURFACE			VOLTAGE: 120/208V NEUTRAL: 100.00%			INTERRUPTING CAPACITY: 10,000A ENCLOSURE: TYPE 2						
CKT	Load Name	Type	Rating	Poles	A	B	C	Poles	Rating	Type	Load Name	CKT
1	BAS PANEL - RM 327	15.0 A	1					1	15.0 A		EXHAUST FAN (EF-10)	2
3								1	15.0 A		ROOF EXHAUST FAN (EF-14)	4
5	CONDENSING UNIT AND AC UNIT (CU-1 & AC-1)	30.0 A	2					2	15.0 A	GFCI	CUST 327 HEATER TYPE E	6
7								1	--	SPACE		8
9	HEATER (TYPE C) - STAIR B	15.0 A	2					1	--	SPACE		10
11												12
13												14
15	ROOF EXHAUST FAN (EF-13)	15.0 A	3					2	15.0 A	GFCI	HEATER (TYPE B) - RM 324	16
17								1	15.0 A		EXHAUST FAN (EF-9)	18
19	SPACE	--	--	1								20
21	ROOF EXHAUST FAN (EF-6)	15.0 A	1					2	25.0 A		HEAT PUMP (HP-4-9)	22
23	ROOF EXHAUST FAN (EF-13)	25.0 A	1					2	--	SPARE		24
25	SPACE	--	15.0 A	1				1	25.0 A		HEAT PUMP (HP-4-6)	26
27	HEAT PUMP (HP-4-7)	25.0 A	2									28
29								2	25.0 A		HEAT PUMP (HP-4-8)	30
31	HEAT PUMP (HP-4-3)	25.0 A	2					2	25.0 A		HEAT PUMP (HP-4-8)	32
33												34
35	HEAT PUMP (HP-4-5)	25.0 A	2					2	15.0 A		HEAT PUMP (HP-4-15)	36
37												38
39	HEAT PUMP (HP-4-1)	15.0 A	2					2	15.0 A		HEAT PUMP (HP-4-2)	40
41												42
43												44
45	HEAT PUMP (HP-4-12)	25.0 A	2					2	25.0 A		HEAT PUMP (HP-4-13)	46
47	HEAT PUMP (HP-4-14)	25.0 A	2					2	25.0 A		HEAT PUMP (HP-4-13)	48
49												50
51	HEAT PUMP (HP-4-1)	15.0 A	2					2	25.0 A		HEAT PUMP (HP-4-10)	52
53												54
55	HEAT PUMP (HP-3-1)	25.0 A	3					3	25.0 A		HEAT PUMP (HP-3-2)	56
57												58
59								3	25.0 A		HEAT PUMP (HP-3-2)	60
61												62
63	HEAT PUMP (HP-4-11)	25.0 A	3					1	--	SPACE		64
65								1	--	SPACE		66
67	SPACE	--	--	1				1	--	SPACE		68
69	SPACE	--	--	1				1	--	SPACE		70
71	SPACE	--	--	1				1	--	SPACE		72

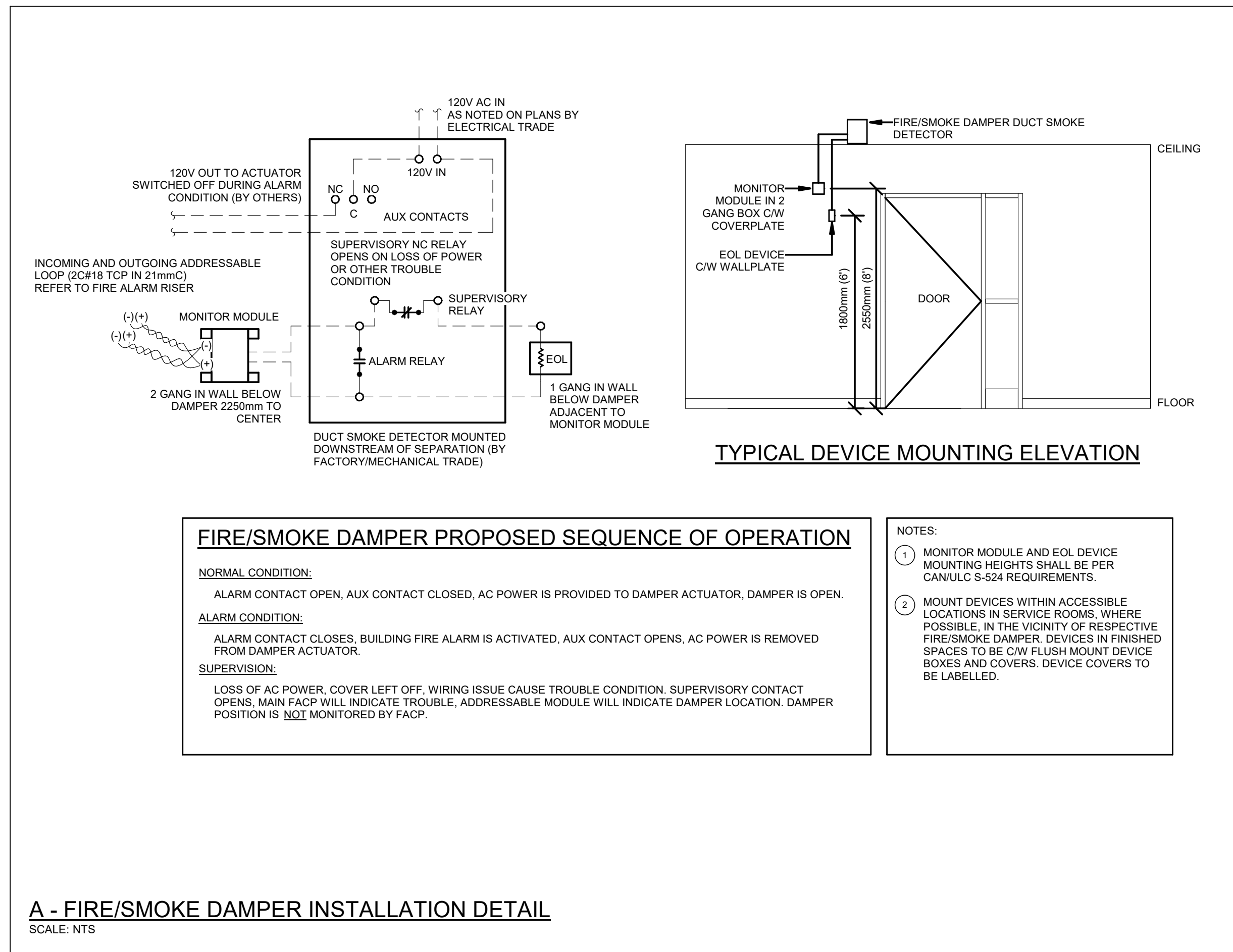
GENERAL NOTES

A. AUTOMATICALLY CONTROLLED RECEPTACLES (ACTED FROM ANY MAIN) SHALL BE GREEN IN COLOUR AND PERMANENTLY MARKED PER SPECIFICATION.

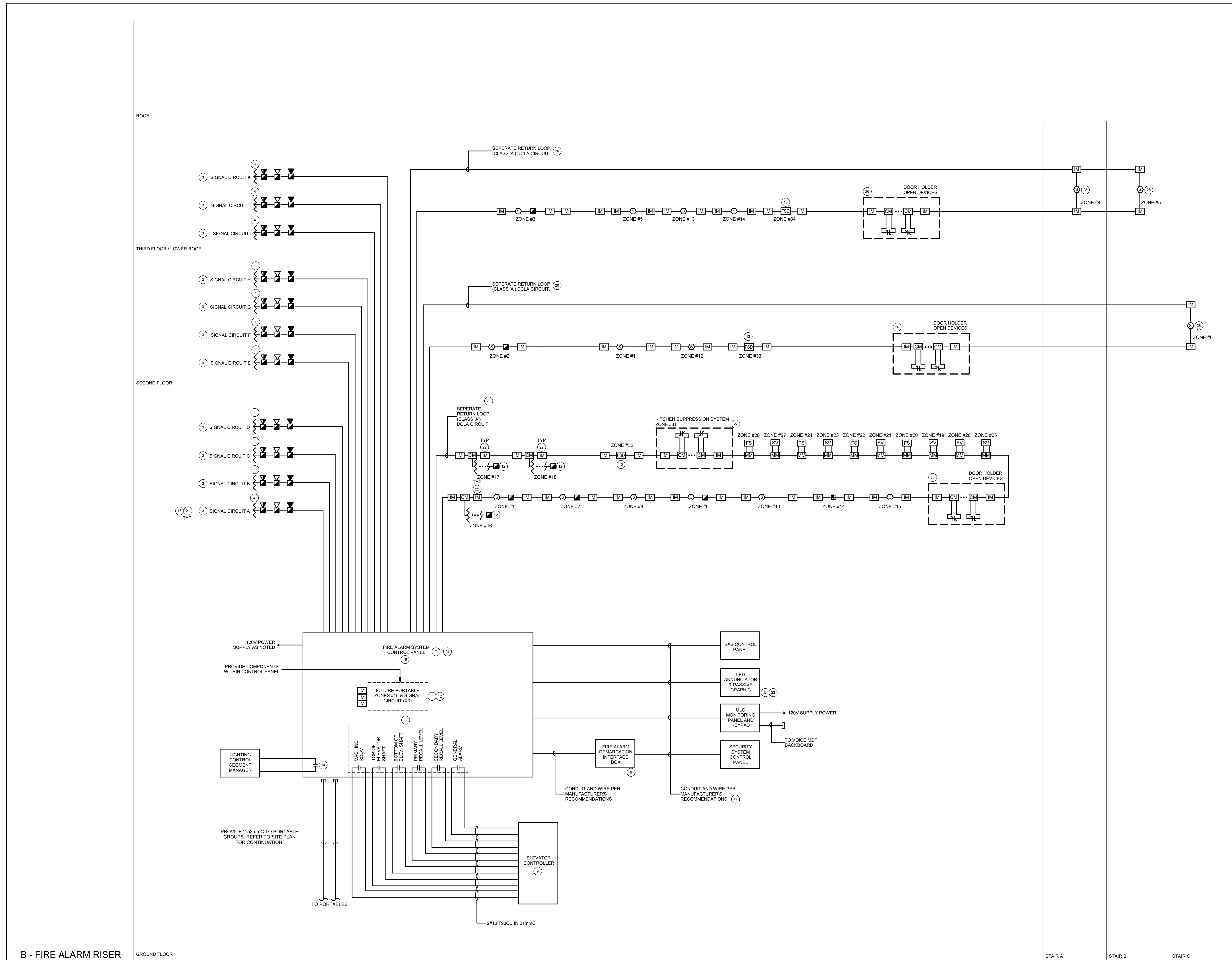
PANEL 1R1											
MAINS: 225.0 A				VOLTAGE: 120/208V				INTERRUPTING CAPACITY: 10000			
MOUNTING: SURFACE				NEUTRAL: 200.00%				ENCLOSURE: TYPE 2			
CKT	Load Name	Type	Rating	Poles	Type	Rating	Poles	Type	Load Name	CKT	
1	ABOVE COUNTER GFI RECEPTACLE - RM 111	20.0 A	1	1	20.0 A				ABOVE COUNTER GFI RECEPTACLE - RM 111	2	
3	WASH FOUNTAIN (WF-2) - RM 115, 120, 121 & 126	GFI	15.0 A	1	15.0 A	GFI			DISHWASHER - RM 111	4	
5	PAGING SYSTEM POWER SUPPLY	15.0 A	1	1	15.0 A				DOOR OPERATORS - RM 101	6	
7	TELECOM BACKBOARD RECEPTABLES - RM 113	20.0 A	1	1	15.0 A				RECEPTABLES - RM 136	8	
9	RECEPTACLE (AC) - RM 136	15.0 A	1	1	20.0 A				TELECOM BACKBOARD RECEPTABLES - RM 113	10	
11	ELECTRIC RANGE - RM 111	50.0 A	2	1	20.0 A				TELECOM BACKBOARD RECEPTABLES - RM 113	12	
13					15.0 A				RECEPTABLES - RM 136	14	
15	TELECOM BACKBOARD RECEPTABLES - RM 113	20.0 A	1	1	RECEPTABLES				RECEPTABLES - RM 141	16	
17	TELECOM BACKBOARD RECEPTABLES - RM 113	20.0 A	1	1	15.0 A				RECEPTABLES - RM 144	18	
19	RECEPTABLES - RM 126	15.0 A	1	1	15.0 A				RECEPTABLES - RM 115	20	
21	RECEPTABLES - RM 129	15.0 A	1	1	15.0 A				RECEPTABLES - RM 120	22	
23	RECEPTABLES - RM 134	15.0 A	1	1	15.0 A				RECEPTABLES - RM 123	24	
25	RECEPTACLE (AC) - RM 134	15.0 A	1	1	15.0 A				OVERHEAD LIFT RECEPTACLE - RM 144	26	
27	RECEPTACLE - RM 102	20.0 A	1	1	15.0 A				RECEPTACLE (AC) - RM 120	28	
29	RECEPTABLES - RM 114	15.0 A	1	1	15.0 A				RECEPTACLE (AC) - RM 126	30	
31	MISC RECEPTACLE - RM 135 & 133	15.0 A	1	1	15.0 A				MISC RECEPTACLE - RM 137 & 139	32	
33	MISC RECEPTABLES - RM 111	15.0 A	1	1	15.0 A				MISC RECEPTACLE - RM 117 & 118	34	
35	OVERHEAD LIFT RECEPTACLE - RM 144	15.0 A	1	1	15.0 A				MISC RECEPTACLE - RM 123 & 124	36	
37	MCP RECEPTACLE - RM 129	15.0 A	1	1	15.0 A				MCP RECEPTACLE - RM 120	38	
39	MCP RECEPTACLE - RM 114	15.0 A	1	1	15.0 A				MCP RECEPTACLE - RM 121	40	
41	MICROWAVE RECEPTACLE - RM 111	20.0 A	1	1	15.0 A				MCP RECEPTACLE - RM 126	42	
43	ISLAND MILLWORK RECEPTACLE - RM 111	20.0 A	1	1	15.0 A				FRIDGE RECEPTACLE - RM 111	44	
45	MCP RECEPTACLE - RM 111	15.0 A	1	1	15.0 A				MAGNETIC DOOR HOLD OPEN POWER	46	
47	MCP RECEPTACLE - RM 116	15.0 A	1	1	20.0 A				ISLAND MILLWORK RECEPTACLE - RM 111	48	
49	CORRIDOR VESTIBULE	20.0 A	1	1	20.0 A				ABOVE COUNTER RECEPTACLE - RM 129	50	
51	DISPLAY CASE RECEPTACLE	15.0 A	1	1	20.0 A				ABOVE COUNTER RECEPTACLE - RM 111	52	
53	FRIDGE RECEPTACLE - RM 111	15.0 A	1	1	20.0 A				ABOVE COUNTER RECEPTACLE - RM 111	54	
55	ABOVE COUNTER GFI RECEPTACLE - RM 111	20.0 A	1	1	15.0 A	GFI			LABORATORY SINK (L-2) - RM 142 & 143	56	
57	ABOVE COUNTER GFI RECEPTACLE - RM 115	15.0 A	1	1	TRAP PRIMER				TRAP PRIMER - RM 114	58	
59	ABOVE COUNTER GFI RECEPTACLE - RM 126	15.0 A	1	1	15.0 A	GFI			WASH FOUNTAIN (WF-2) - RM 129 & 134	60	
61	DOOR BUZZER SYSTEM - RM 120	15.0 A	1	1	20.0 A	GFI			HAND DRIVER - RM 143	62	
63	DOOR BUZZER SYSTEM - RM 121	15.0 A	1	1	20.0 A	GFI			HAND DRIVER - RM 142	64	
65	DOOR BUZZER SYSTEM - RM 126	15.0 A	1	1	15.0 A				RECEPTACLE (AC) - RM 121	66	
67	SPACE	-	-	-	-	-	-	-	SPACE	68	
69	SPACE	-	-	-	-	-	-	-	SPACE	70	
71	SPACE	-	-	-	-	-	-	-	SPACE	72	

PANEL 2R1												
MAINS: 225.0 A				VOLTAGE: 120/208V				INTERRUPTING CAPACITY: 10,000A				
MOUNTING: RECESSED				NEUTRAL: 200.00%				ENCLOSURE: TYPE 1				
CKT	Load Name	Type	Rating	Poles	A	B	C	Poles	Rating	Type	Load Name	CKT
1	TRAP PRIMER - RM 236	GFI	15.0 A	1	1	15.0 A		1	20.0 A	GFI	HAND DRIVER - RM 233	2
3	HAND DRIVER - RM 233	GFI	20.0 A	1	1	20.0 A		1	20.0 A	GFI	HAND DRIVER - RM 233	4
5	HAND DRIVER - RM 233	GFI	20.0 A	1	1	20.0 A		1	15.0 A		CO DETECTORS - RM 237	6
7	ABOVE COUNTER RECEPTABLES - RM 229		15.0 A	1	1	15.0 A		1	20.0 A		TELECOM BACKBOARD RECEPTABLES - RM 205	8
9	USB RECEPTABLES - RM 228A, 228B & 229		15.0 A	1	1	15.0 A		1	20.0 A		TELECOM BACKBOARD RECEPTABLES - RM 205	10
11	USB RECEPTABLES - RM 230A, 238B & 231		15.0 A	1	1	15.0 A		1	15.0 A		ABOVE COUNTER RECEPTABLES - RM 231	12
13	TELECOM BACKBOARD RECEPTABLES - RM 205		20.0 A	1	1	15.0 A		1	15.0 A		RECEPTABLES - RM 225	14
15	TELECOM BACKBOARD RECEPTABLES - RM 205		20.0 A	1	1	15.0 A		1	15.0 A		RECEPTABLES - RM 226	16
17	TELECOM BACKBOARD RECEPTABLES - RM 205		20.0 A	1	1	15.0 A		1	15.0 A		RECEPTABLES - RM 227	18
19	RECEPTABLES - RM 221		20.0 A	1	1	15.0 A		1	15.0 A		RECEPTABLES - RM 216	20
21	RECEPTABLES - RM 221		15.0 A	1	1	20.0 A		1	20.0 A		RECEPTABLES - RM 221	22
23	RECEPTABLES - RM 223		15.0 A	1	1	20.0 A		1	20.0 A		RECEPTABLES - RM 221	24
25	RECEPTABLES - RM 215		15.0 A	1	1	15.0 A		1	15.0 A		RECEPTABLES - RM 212	26
27	RECEPTABLES - RM 216		15.0 A	1	1	15.0 A		1	15.0 A		RECEPTABLES - RM 212	28
29	RECEPTABLES - RM 217		15.0 A	1	1	15.0 A		1	15.0 A		RECEPTABLES - RM 213	30
31	RECEPTABLES (AC) - RM 227		15.0 A	1	1	15.0 A		1	15.0 A		RECEPTABLES (AC) - RM 224	32
33	RECEPTABLES - RM 214		15.0 A	1	1	15.0 A		1	15.0 A		RECEPTABLES (AC) - RM 225	34
35	RECEPTABLES - RM 210A		15.0 A	1	1	15.0 A		1	15.0 A		RECEPTABLES (AC) - RM 226	36
37	RECEPTABLES (AC) - RM 218		15.0 A	1	1	15.0 A		1	15.0 A		RECEPTABLES (AC) - RM 215	38
39	RECEPTABLES (AC) - RM 222		15.0 A	1	1	15.0 A		1	15.0 A		RECEPTABLES (AC) - RM 216	40
41	RECEPTABLES (AC) - RM 223		15.0 A	1	1	15.0 A		1	15.0 A		RECEPTABLES (AC) - RM 217	42
43	RECEPTABLES (AC) - RM 211		15.0 A	1	1	20.0 A		1	20.0 A		MICROWAVE RECEPTACLE - RM 212	44
45	RECEPTABLES (AC) - RM 213		15.0 A	1	1	20.0 A		1	20.0 A		RECEPTACLE - RM 233	46
47	RECEPTABLES - RM 224		15.0 A	1	1	20.0 A		1	20.0 A		RECEPTACLE - STAR B	48
49	MCP RECEPTACLE - RM 221		15.0 A	1	1	20.0 A		1	20.0 A		HOUSEKEEPING RECEPTABLES - CORR 218	50
51	MCP RECEPTACLE - RM 222		15.0 A	1	1	20.0 A		1	20.0 A		HOUSEKEEPING RECEPTABLES - CORR 218	52
53	MICROWAVE RECEPTACLE - RM 211		20.0 A	1	1	15.0 A		1	15.0 A		MCP RECEPTACLE - RM 211	54
55	FRIDGE RECEPTACLE - RM 211		15.0 A	1	1	20.0 A		1	20.0 A		ABOVE COUNTER RECEPTACLE - RM 224	56
57	GEN PURP REC GFI - RM 236		20.0 A	1	1	20.0 A		1	20.0 A		ABOVE COUNTER RECEPTABLES - RM 226	58
59	HOUSEKEEPING RECEPTABLES - CORR 205		20.0 A	1	1	15.0 A		1	15.0 A		FRIDGE RECEPTACLE - RM 212	60
61	ABOVE COUNTER RECEPTACLE - RM 216		20.0 A	1	1	20.0 A		1	20.0 A		ABOVE COUNTER GFI RECEPTABLES - RM 216	62
63	ABOVE COUNTER RECEPTABLE - RM 218		20.0 A	1	1	20.0 A		1	20.0 A		ABOVE COUNTER RECEPTABLE - RM 213	64
65	ABOVE COUNTER RECEPTACLE - RM 222		20.0 A	1	1	20.0 A		1	20.0 A		ABOVE COUNTER RECEPTACLE - RM 214	66
67	ABOVE COUNTER GFI RECEPTACLE - RM 211		20.0 A	1	1	15.0 A		1	15.0 A		CCTV POWER SUPPLY - RM 205	68
69	ABOVE COUNTER GFI RECEPTACLE - RM 211		20.0 A	1	1	15.0 A		1	15.0 A		CCTV RECORDING UNIT POWER SUPPLY - RM 205	70
71	ABOVE COUNTER GFI RECEPTACLE - RM 212		20.0 A	1	1	15.0 A		1	15.0 A		MAGNETIC DOOR HOLD OPEN POWER	72

PANEL 3R1												
MAINS: 225.0 A				VOLTAGE: 120/208V				INTERRUPTING CAPACITY: 10,000A				
MOUNTING: SURFACE				NEUTRAL: 200.00%				ENCLOSURE: TYPE 2				
CKT	Load Name	Type	Rating	Poles	A	B	C	Poles	Rating	Type	Load Name	CKT
1	ABOVE COUNTER GFI RECEPTACLE - RM 308	20.0 A	1	1	15.0 A			1	15.0 A		SHADE MOTOR CONTROLLER	2
3	ABOVE COUNTER GFI RECEPTACLE - RM 309	20.0 A	1	1	15.0 A			1	15.0 A		SHADE MOTOR CONTROLLER	4
5	HAND DRIVER - RM 313	GFI	20.0 A	1	1	20.0 A		1	20.0 A		HAND DRIVER - RM 324	6
7	USB RECEPTABLES - RM 303 & 307	15.0 A	1	1	15.0 A			1	15.0 A		TRAP PRIMER - RM 327	8
9	USB RECEPTABLES - RM 326 & 328B	15.0 A	1	1	15.0 A			1	15.0 A		USB REC RM 30A, 31, 308B	10
11	USB RECEPTABLES - RM 304	15.0 A	1	1	15.0 A			1	15.0 A		USB RECEPTABLES - CORR 303	12
13	RECEPTABLES - RM 308	15.0 A	1	1	15.0 A			1	15.0 A		RECEPTABLES - RM 321	14
15	TELECOM BACKBOARD RECEPTACLE - RM 332	20.0 A	1	1	15.0 A			1	15.0 A		RECEPTABLES - RM 322	16
17	TELECOM BACKBOARD RECEPTACLE - RM 332	20.0 A	1	1	20.0 A			1	20.0 A		RECEPTABLES - RM 324	18
19	RECEPTABLES - RM 317	15.0 A	1	1	15.0 A			1	15.0 A		RECEPTABLES - RM 311	20
21	RECEPTABLES - RM 310	15.0 A	1	1	15.0 A			1	15.0 A		RECEPTABLES - RM 313	22
23	RECEPTABLES - RM 310	15.0 A	1	1	15.0 A			1	15.0 A		RECEPTABLES - RM 314	24
25	RECEPTABLES - REC RM 310	15.0 A	1	1	15.0 A			1	15.0 A		RECEPTABLES (AC) - RM 320	26
27	RECEPTABLES - RM 309	15.0 A	1	1	15.0 A			1	15.0 A		RECEPTABLES (AC) - RM 310	28
29	RECEPTABLES - RM 310	15.0 A	1	1	15.0 A			1	15.0 A		RECEPTABLES (AC) - RM 322	30
31	RECEPTABLES (AC) - RM 314	15.0 A	1	1	15.0 A			1	15.0 A		RECEPTABLES (AC) - RM 310	32
33	RECEPTABLES (AC) - RM 314	15.0 A	1	1	15.0 A			1	15.0 A		RECEPTABLES (AC) - RM 311	34
35	RECEPTABLES (AC) - RM 310	15.0 A	1	1	15.0 A			1	15.0 A		RECEPTABLES (AC) - RM 313	36
37	ABOVE COUNTER RECEPTABLES - RM 317	20.0 A	1	1	15.0 A			1	15.0 A		MCP RECEPTACLE - RM 314	38
39	RECEPTABLES (AC) - RM 308	15.0 A	1	1	15.0 A			1	15.0 A		MCP RECEPTACLE - RM 313	40
41	RECEPTABLES (AC) - RM 309	15.0 A	1	1	20.0 A			1	20.0 A		MICROWAVE RECEPTACLE - RM 308	42
43	GEN RECEPTACLE - RM 326	20.0 A	1	1	20.0 A			1	20.0 A		GEN REC CORR 315	44
45	HOUSEKEEPING RECEPTABLES - CORR 303	20.0 A	1	1	20.0 A			1	20.0 A		GEN REC CORR 315, 328a	46
47	MCP RECEPTACLE - RM 306	15.0 A	1	1	15.0 A			1	15.0 A		GEN REC RM 313a	48
49	LAVATORY SINK (L) - RM 323, GFI	20.0 A	1	1	20.0 A			1	20.0 A		AC REC RM 306	50
51	EXTERIOR GFI RECEPTACLE	20.0 A	1	1	20.0 A			1	20.0 A		AC REC RM 300	52
53	FROGE RECEPTACLE - RM 308	15.0 A	1	1	15.0 A			1	15.0 A		RECEPTABLES - RM 307a	54
55	ABOVE COUNTER RECEPTACLE - RM 311	20.0 A	1	1	20.0 A			1	20.0 A		ABOVE COUNTER GFI RECEPTABLES - RM 317	56
57	ABOVE COUNTER RECEPTACLE - RM 318	20.0 A	1	1	20.0 A			1	20.0 A		ABOVE COUNTER GFI RECEPTABLES - RM 317	58
59	ABOVE COUNTER RECEPTACLE - RM 320	20.0 A	1	1	20.0 A			1	20.0 A		ABOVE COUNTER GFI RECEPTABLES - RM 317	60
61	ABOVE COUNTER GFI RECEPTABLES - RM 317	20.0 A	1	1	20.0 A			1	20.0 A		ABOVE COUNTER GFI RECEPTABLES - RM 317	62
63	ABOVE COUNTER GFI RECEPTABLES - RM 317	20.0 A	1	1	20.0 A			1	20.0 A		ABOVE COUNTER GFI RECEPTABLES - RM 317	64
65	ABOVE COUNTER GFI RECEPTABLES - RM 317	20.0 A	1	1	20.0 A			1	20.0 A		ABOVE COUNTER GFI RECEPTABLES - RM 317	66
67	ABOVE COUNTER RECEPTACLE - RM 313	20.0 A	1	1	20.0 A			1	20.0 A		HAND DRIVER - RM 324	68
69	ABOVE COUNTER GFI RECEPTACLE - RM 313	20.0 A	1	1	20.0 A			1	20.0 A		HAND DRIVER - RM 324	70
71	ABOVE COUNTER GFI RECEPTABLES - RM 317	20.0 A	1	1	15.0 A			1	15.0 A		DOOR OPERATOR - RM 323	72



A - FIRE/SMOKE DAMPER INSTALLATION DETAIL
SCALE: NTS



B - FIRE ALARM RISER
SCALE: NTS

FIRE ALARM NOTES			
1	ISSER IS DIAGRAMMATIC ONLY. PROVIDE QUANTITY OF HARDWARE, MODULES, ACCESSORIES, SIGNALING CIRCUITS, INITIATING CIRCUITS, HARDWARE, DEVICES, CONDUIT, WIRE, ETC TO ENSURE A FULLY OPERATIONAL FIRE ALARM SYSTEM.		
2	REFER TO FLOOR PLANS FOR EXACT LOCATION AND QUANTITIES OF DEVICES.		
3	PROVIDE THE REQUIRED NUMBER OF SIGNAL CIRCUITS TO SUIT THE QUANTITY OF STROBES. SIGNAL CIRCUITS ARE TO BE ALTERNATED.		
4	LOCATED END OF LINE RESISTORS AND ISOLATOR MODULES IN SERVICES ROOMS AT <= 1.8m AFF. PROVIDE LAMC003 LABEL INDICATING ZONE LABEL AND NUMBER.		
5	AS PART OF SHOP DRAWING SUBMITTAL PROCESS, THE PASSIVE GRAPHIC DRAWINGS FOR THE RENEWAL APPROVAL PRIOR TO RELEASE INTO PRODUCTION.		
6	INDICATES FIRE ALARM DEMARCATION INTERFACE BOX. PROVIDE CONDUCTORS PER MANUFACTURER'S RECOMMENDATIONS TO INTEGRATE SECURITY PANEL WITH FIRE ALARM CONTROL PANEL TO ALLOW ALARM, SUPERVISORY AND TROUBLE OUTPUT ZONES TO BE MONITORED AND REPORTED. COORDINATE DETAILS INCLUDING EXACT TERMINATION REQUIREMENTS ON SITE WITH SECURITY VENDOR.		
7	PROVIDE ADDITIONAL SET OF DRY CONTACTS IN FIRE ALARM CONTROL PANEL FOR MONITORING OF TROUBLE AND ALARM CONDITIONS.		
8	WITHIN THE FIRE ALARM CONTROL PANEL, PROVIDE 6 NORMALLY OPEN DRY CONTACTS RATED FOR 120V AC AT 1.5 AMP. PROVIDE WIRING AND CONNECTIONS AS NOTED. THESE CONTACTS ARE TO CLOSE WHEN THE RESPECTIVE DEVICE IS INITIATED.		
9	CONTACTS WITHIN THE CONTROLLER WILL BE PROVIDED BY THE ELEVATOR SUPPLIER. COORDINATE AND CONNECT ACCORDINGLY.		
10	CONFIRM TAG LABEL WITH FINAL FLOOR PLAN AND ROOM NUMBERING PLAN.		
11	INDICATES PROVISIONAL FUTURE PORTABLES SIGNAL CIRCUIT CONNECTIONS. PROVIDE CIRCUIT CONNECTION FROM CONTROL PANEL TO EOL AT LOCATION OF PORTABLES DUCTS EXIT WITHIN SERVICE ROOM AND PROVIDE LABELS.		
12	INDICATES FUTURE (CONVENTIONAL TYPE) DEVICES WITHIN PORTABLE CLASSROOMS. PROVIDE ZONE CONNECTION FROM LOOP MODULE TO END OF LINE AT LOCATION OF PORTABLES DUCTS EXIT WITHIN SERVICE ROOM AND PROVIDE LABELS.		
13	INDICATES 120V POWER AND FIRE ALARM CONNECTIONS TO BACKFIRE DAMPER WITH INTEGRAL SMOKE DETECTOR. REFER TO FIRE ALARM SPECIFICATIONS. COORDINATE EXACT LOCATION/CONNECTION REQUIREMENTS WITH MECHANICAL CONTRACTOR. SMOKE/FIRE DAMPER AND ASSOCIATED INTEGRAL SMOKE DETECTOR TO BE PROVIDED AND INSTALLED BY MECHANICAL CONTRACTOR. PROVIDE MONITORING MODULES PER SMOKE/FIRE DAMPER TO 120V POWER SUPPLY CONNECTION TO THE DAMPER ACTUATOR, AND INTEGRAL SMOKE DETECTOR ALARM AS SIGNAL. A TROUBLE CONDITION SHALL BE ACTUATED DUE TO THE LOSS OF AC POWER AT THE MAIN CONTROL PANEL. CONTROL PANEL AND INTEGRAL SMOKE DETECTOR SIGNAL UNTIL ACKNOWLEDGED BY OPERATOR. REFER TO DETAIL A6.8.		
14	INDICATES DRY CONTACTS REQUIRED FOR CONNECTION TO LIGHTING CONTROL SEGMENT MANAGER. PROVIDE CONDUIT CW WIRING PER MANUFACTURER'S RECOMMENDATIONS.		
15	INDICATES CONTROL MODULE FOR SHUTDOWN OF SCIENCE CLASSROOM GAS SOLENOID ON GENERAL ALARM.		
16	CONTRACTOR IS TO CONFIRM WIRE SIZE (BASED UPON LENGTH OF CIRCUIT RUN AND QUANTITY OF SIGNALS) FOR SIGNAL CIRCUIT WITH MANUFACTURER.		
17	THE INDICATED LOOP COUNT SHOWN REPRESENTS THE MINIMUM BASIS OF DESIGN AND SHOULD BE INCREASED TO SUIT THE CAPABILITY AND CAPACITY OF THE CHOSEN FIRE ALARM MANUFACTURER INCLUDED IN THE BID. ADJUST LOOP QUANTITIES ACCORDINGLY TO ALLOW MINIMUM 20% SPARE MAX DEVICES PER LOOP. EACH FLOOR MUST BE SERVED BY A DEDICATED LOOP. NO COST SAVING MEASURES WILL BE ACCEPTED FOR REDUCED QUANTITY OF LOOPS.		
18	PROVIDE POWER CONDUIT, BACKBOXES AND WIRING IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. MINIMUM CONDUIT SIZE 25mm ² .		
19	RETURN LOOP FROM LAST CONDUIT SEPARATION PER CSAULC 588 (LATEST EDITION).		
20	PROVIDE 24VDC CIRCUITS FOR FRIGIDERS AND OTHER 24VDC DEVICES. MAXIMUM LOAD ON EACH CIRCUIT SHALL NOT EXCEED 70%. CIRCUIT REQUIREMENTS NOT SHOWN ON RISER DIAGRAM.		
21	PROVIDE LINE ISOLATOR MODULES TO ISOLATE ADDRESSABLE LOOP SEGMENTS ON A PER FLOOR ALARM ZONE BASIS, ON A PER FLOOR BASIS, AND AS REQUIRED BY THE SYSTEM MANUFACTURER AND BUILDING CODE. PROVIDE ADDITIONAL LINE ISOLATOR AS REQUIRED OVER AND ABOVE THOSE INDICATED ON RISER DIAGRAM TO SATISFY ALL ISOLATION REQUIREMENTS.		
22	REFER TO FIRE ALARM SYSTEM ANALYSIS REPORT OR DRAWING DELIVERABLES FOR ADDITIONAL REQUIREMENTS. PROVIDE ZONE MODULES, CONTACTORS, ENCLOSURES AND DVRS AS REQUIRED.		
23	TWO (2) CONDUIT SYSTEM MUST BE UTILIZED - ONE FOR FIRE ALARM SIGNALING DEVICES AND SECOND FOR FIRE ALARM INITIATING DEVICES.		
24	MINIMUM NUMBER OF DCA CIRCUITS INDICATED ON DRAWING. PROVIDE ADDITIONAL DCA CIRCUITS ON CONDUIT AND WIRE AS REQUIRED BY MANUFACTURER TO ACCOMMODATE QUANTITY OF DEVICES DETAILED ON FLOOR PLANS. MAXIMUM NUMBER OF DEVICES ON EACH DCA CIRCUIT SHALL NOT EXCEED 70% OF MANUFACTURER'S STATED LOAD MAXIMUM. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.		
25	INDICATES DRY CONTACTS REQUIRED FOR MONITORING OF THE DOOR HOLDER RELEASE DEVICES. REFER TO ANNUNCIATOR ZONE SCHEDULE FOR FURTHER DETAILS. PROVIDE CONDUIT CW WIRING PER MANUFACTURER'S RECOMMENDATIONS.		
26	INDICATES SUPERVISORY DRY CONTACTS CW LOW VOLTAGE WIRING TO FIRE SUPPRESSION CONTROL PANEL REQUIRED FOR MONITORING OF H2O FIRE SUPPRESSION SYSTEM. REFER TO ANNUNCIATOR ZONE SCHEDULE FOR FURTHER DETAILS. COORDINATE CONNECTION TO DRY CONTACTS ON SITE PER SUPERVISORY INSTALLER. PROVIDE CONDUIT CW WIRING PER MANUFACTURER'S RECOMMENDATIONS.		
27	SMOKE DETECTORS INSTALLED IN STAIRWELLS MAY BE TAPPED FROM RESPECTIVE FLOOR DCA LOOP. PROVIDE LINE ISOLATOR MODULES.		
28	PROVIDE A DEDICATED ADDRESSABLE LOOP PER FLOOR OR AS SHOWN TO ALLOW MAXIMUM NUMBER OF CONNECTED DEVICES PER MANUFACTURER'S REQUIREMENTS. NO COST SAVING MEASURES WILL BE ACCEPTED FOR REDUCED QUANTITY OF LOOPS.		
29			

NO.	DESCRIPTION	DATE
1	ISSUED FOR TENDER	2026-02-03
2	ISSUED FOR 100% COORDINATION	2026-01-15
3	ISSUED FOR PERMIT	2026-03-21
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MILTON #13 PUBLIC SCHOOL
1345 TRUDEAU DRIVE
MILTON, ON

LEGAL DESCRIPTION

PART OF LOT 6, CONCESSION 5
TOWN OF MILTON, REGION OF
HALTON

MILTON DISTRICT SCHOOL BOARD
1345 TRUDEAU DRIVE
MILTON, ON L7R 1S2
TEL: (905) 335-3683
FAX: (905) 335-3682

FIRE ALARM RISER

HOSSACK & ASSOCIATES
ARCHITECTS

DEI Consulting Engineers

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Windsor, ON N9A 1Y8
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Mobile: 519-750-0955
Fax: 519-750-0955
Project Number: 22124

MECHANICAL ELECTRICAL AQUATIC

SCALE: As Indicated

PROJECT: 22124

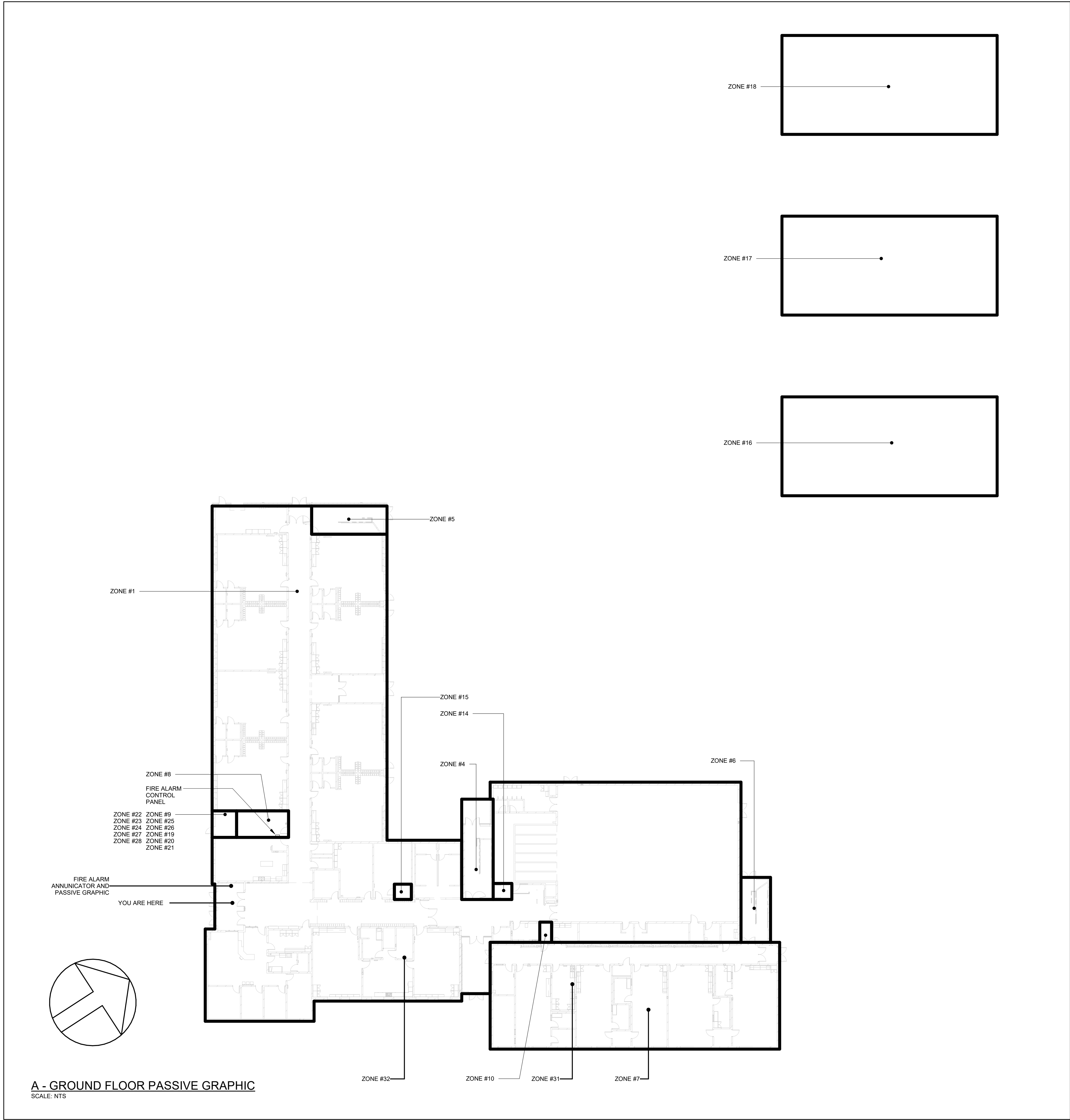
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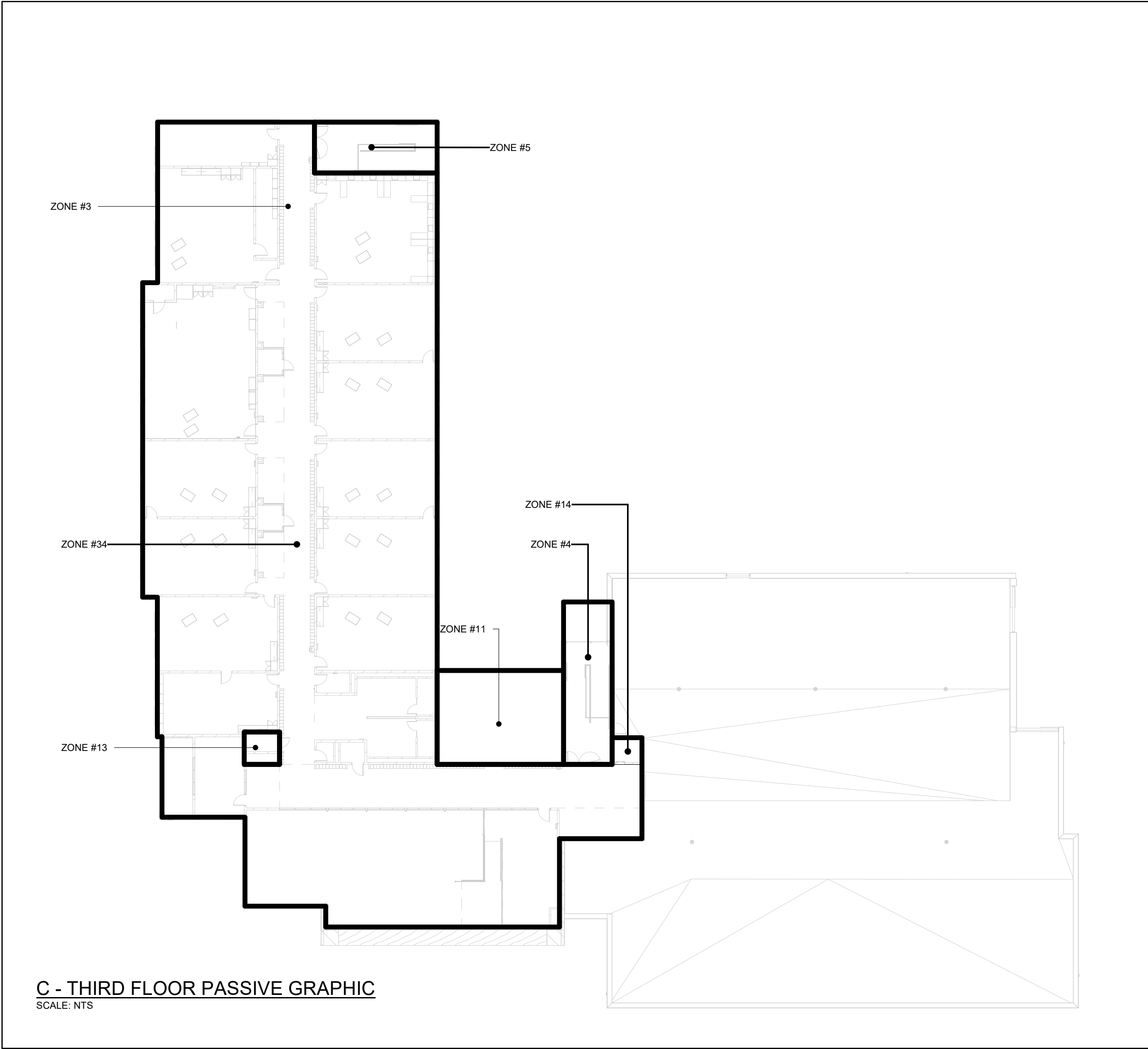
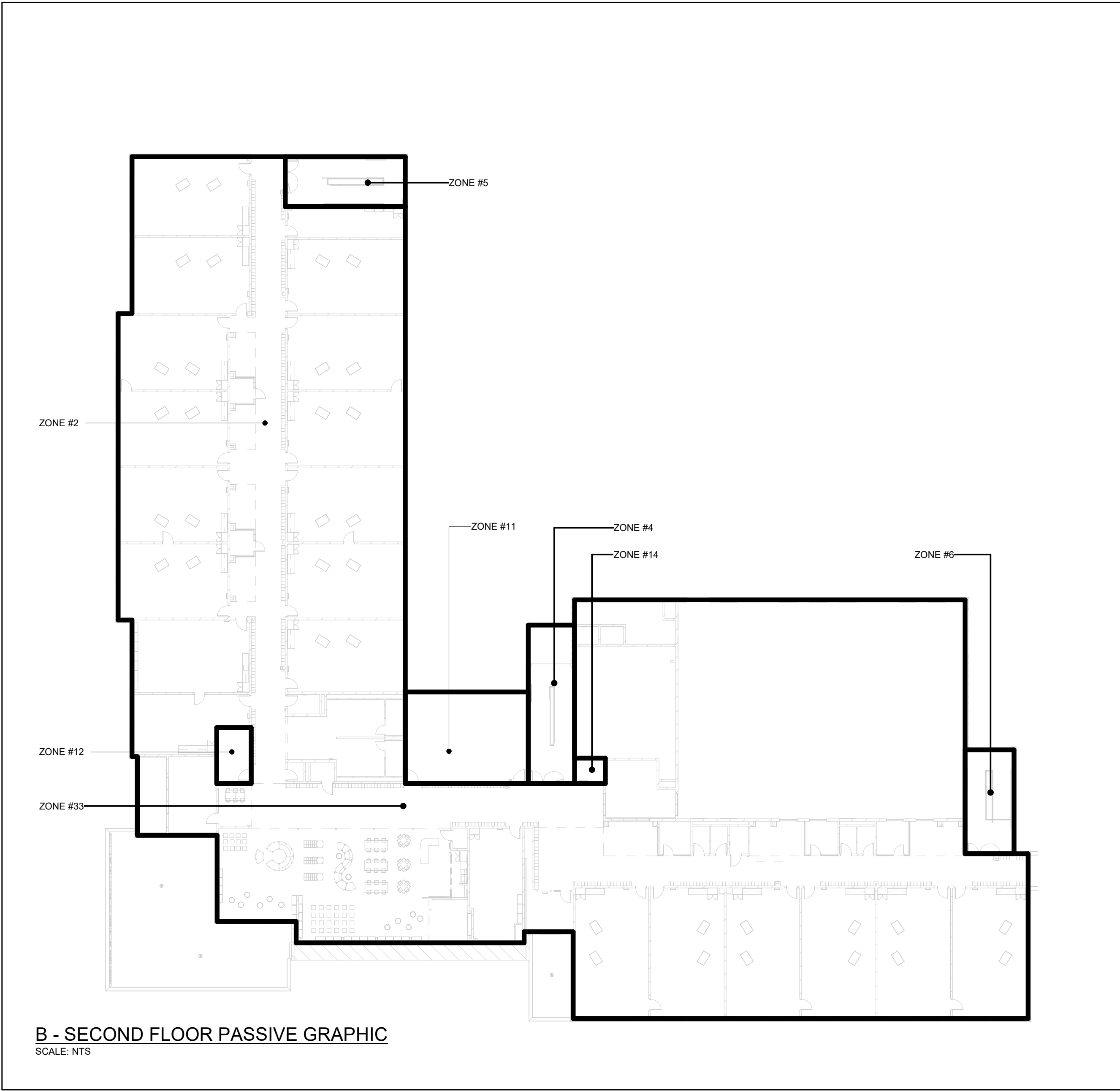
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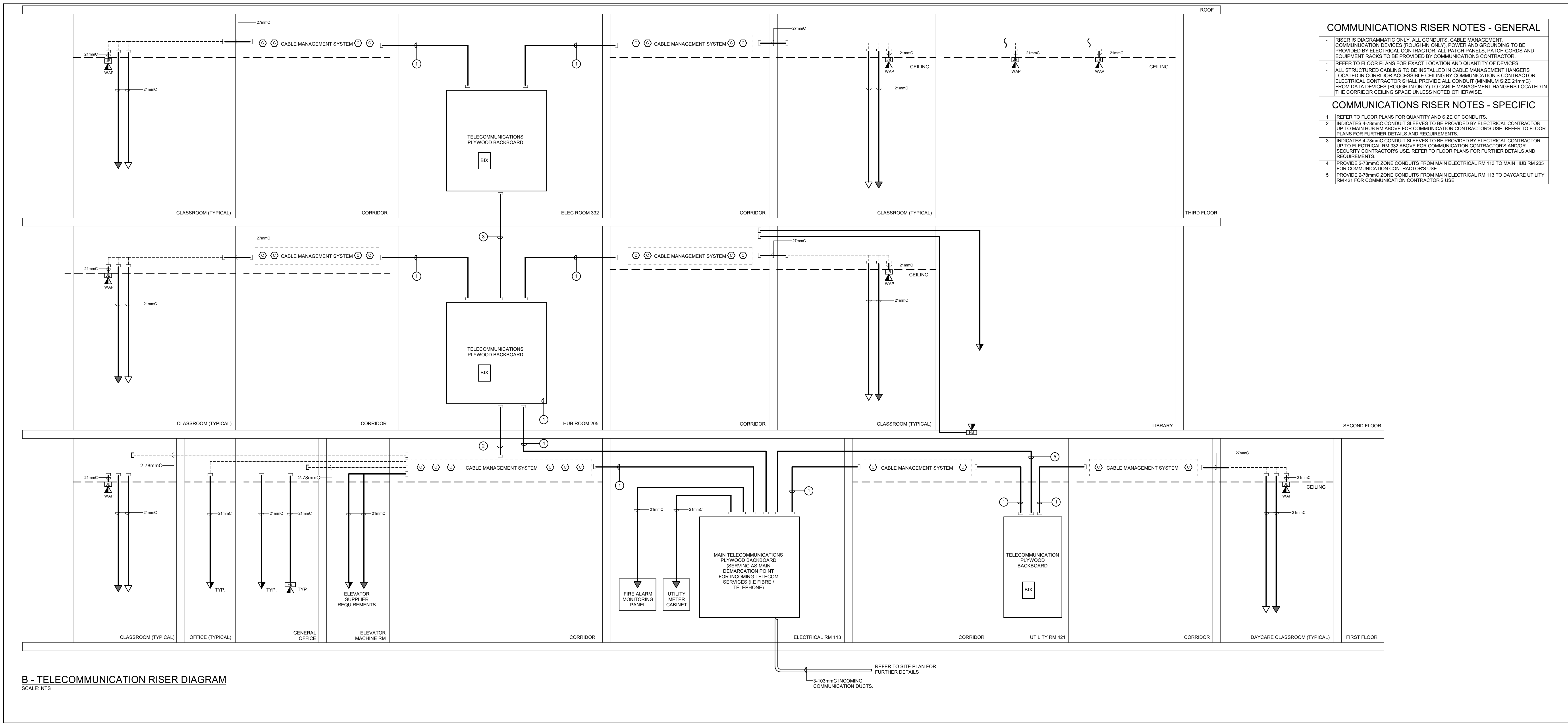
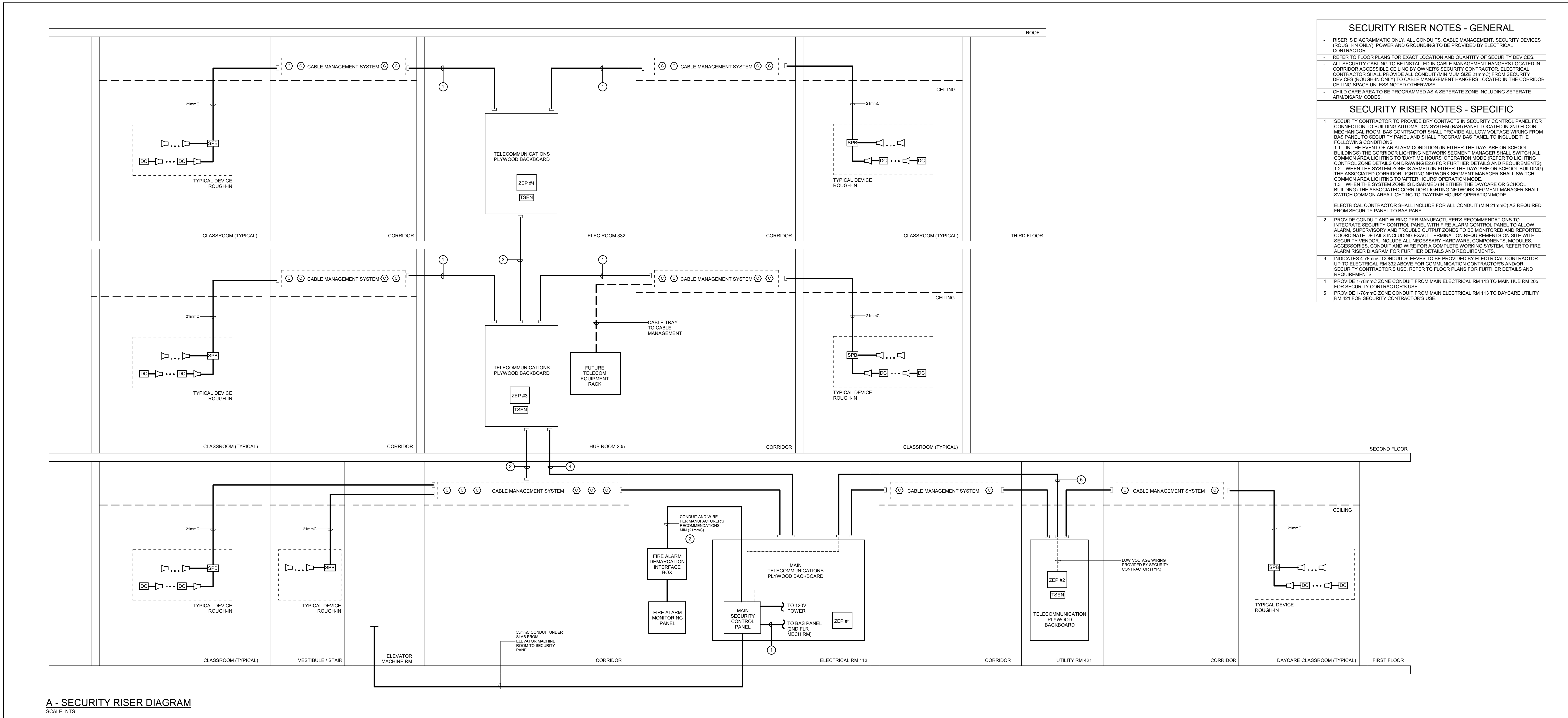


FIRE ALARM ANNUNCIATOR SCHEDULE			
Zone	Description	Alarm	Supervisory
1	GROUND FLOOR	*	
2	SECOND FLOOR	*	
3	THIRD FLOOR	*	
4	STAIR A	*	
5	STAIR B	*	
6	STAIR C	*	
7	CHILD CARE	*	
8	ELECTRICAL ROOM 113	*	
9	SPRINKLER ROOM 112	*	
10	UTILITY ROOM 421	*	
11	MECHANICAL ROOM 237	*	
12	HUB ROOM 205	*	
13	ELECTRICAL ROOM 332	*	
14	ELEVATOR SHAFT	*	
15	ELEVATOR MACHINE ROOM	*	
16	FUTURE PORTABLES A	*	
17	FUTURE PORTABLES B	*	
18	FUTURE PORTABLES C	*	
19	LEVEL 1 SPRINKLER SUPERVISED VALVE	*	*
20	LEVEL 1 SPRINKLER FLOW SWITCH	*	*
21	LEVEL 2 SPRINKLER SUPERVISED VALVE	*	*
22	LEVEL 2 SPRINKLER FLOW SWITCH	*	*
23	LEVEL 3 SPRINKLER SUPERVISED VALVE	*	*
24	LEVEL 3 SPRINKLER FLOW SWITCH	*	*
25	INCOMING DOUBLE CHECK VALVE ASSEMBLY	*	*
26	OUTGOING DOUBLE CHECK VALVE ASSEMBLY	*	*
27	LEVEL 3 WINDOW SPRINKLER SUPERVISED VALVE	*	*
28	LEVEL 3 WINDOW SPRINKLER FLOW SWITCH	*	*
29	SPARE	*	*
30	SPARE	*	*
31	KITCHEN HOOD SUPPRESSION SYSTEM	*	*
32	LEVEL 1 FIRE SMOKE DAMPERS	*	*
33	LEVEL 2 FIRE SMOKE DAMPERS	*	*
34	LEVEL 3 FIRE SMOKE DAMPERS	*	*
35	SPARE	*	*
36	SPARE	*	*
37	SPARE	*	*
38	SPARE	*	*
39	SPARE	*	*
40	SPARE	*	*
41	SPARE	*	*
42	SPARE	*	*
43	SPARE	*	*
44	SPARE	*	*
45	SPARE	*	*

PASSIVE GRAPHICS & ZONE SCHEDULE - NOTES	
-	REFER TO FLOOR PLANS AND PASSIVE GRAPHICS FOR EXACT LOCATION AND QUANTITY OF DEVICES INCLUDING ZONE NUMBERS.
-	EXACT LOCATION AND QUANTITY OF SPRINKLER DEVICES TO BE MONITORED BY FIRE ALARM SYSTEM TO BE COORDINATED ON SITE WITH SPRINKLER CONTRACTOR PRIOR TO INSTALLATION.
-	FIRE ALARM PASSIVE GRAPHICS SHOWN FOR EACH FLOOR LEVEL ARE PROVIDED FOR REFERENCE PURPOSES ONLY. CONTRACTOR SHALL PREPARE PASSIVE GRAPHIC FOR EACH FLOOR LEVEL BASED ON ZONE SCHEDULE AND SHALL BE FORWARDED TO THE LOCAL BUILDING DEPARTMENT FOR REVIEW AND APPROVAL PRIOR TO RELEASE INTO PRODUCTION.



3	ISSUED FOR TENDER	2026-02-03
2	ISSUED FOR 100% COORDINATION	2026-01-15
1	ISSUED FOR PERMIT	2026-03-21
NO.	DESCRIPTION	DATE
The contractor shall verify all dimensions and report all errors and discrepancies to the Consultant before commencement of the work.		
The drawings show general arrangement of services. Follow as closely as actual building construction will permit. Obtain approval for relocation of service from Consultant before commencement of the work.		
The drawings do not indicate all off-site fitting and accessories which may be required. Provide the same to meet the required conditions. Drawings and specifications, etc., prepared and issued by the consultant are the property of the consultant and must be returned at the completion of the project. These documents are not to be duplicated or copied without the consent of the Consultant.		
Do not scale the drawing.		
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Professional Engineers Limited Engineering Licensee Name: D.G. MCCONKEY Number: 100230476 Licence: Ontario Limitations: Design, engineering, reporting and specifications for all building electrical systems, site surveying and review of construction for these systems or new and renovation construction. Association of Professional Engineers of Ontario		
MILTON #13 PUBLIC SCHOOL 1345 TRUDEAU DRIVE MILTON, ON		
LEGAL DESCRIPTION PART OF LOT 6, CONCESSION 5 TOWN OF MILTON, REGION OF HALTON		
MILTON DISTRICT SCHOOL BOARD 1111 SINGLTON EDUCATION CENTRE BURLINGTON, ON L7R 5Z7 TEL: (905) 335-3863 FAX: (905) 335-3862		
FIRE ALARM GRAPHIC ANNUNCIATOR		
HOSSACK & ASSOCIATES ARCHITECTS 15 Northland Road Windsor, ON N9A 1Y8 Phone: 519-755-0555 Mobile: 519-755-0555 Project Number: 22124		
DEI Consulting Engineers MECHANICAL ELECTRICAL AQUATIC SCALE: As Indicated DATE: 26-01-13 PROJECT: 22124 DRAWN: CT CHECKED: DM PRINT DATE: 2026-02-03 1:58:55 PM REVIT FILE: T:\00171712\22124\Revit\RYT		



3	ISSUED FOR TENDER	2026.02.03
2	ISSUED FOR 100% COORDINATION	2026.01.15
1	ISSUED FOR PERMIT	2026.03.21
NO	DESCRIPTION	DATE
	The contractor shall verify all dimensions and report all errors and discrepancies to the Consultant before commencement of the work.	
	The drawings show general arrangement of services. Follow as closely as actual building construction will permit. Obtain approval for relocation of service from Consultant before commencement of the work.	
	The drawings do not indicate all offsets, fittings and accessories which may be required. Provide the same to meet the required conditions. Drawings and specifications, etc., prepared and issued by the consultant are the property of the consultant and must be returned at the completion of the project. These documents are not to be duplicated or copied without the consent of the Consultant.	
	Do not scale the drawing.	
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Professional Engineers
Ontario
Limited Engineering Licensee
Name: D.G. MCCONKEY
Number: 100230476
Limitations: Detailed design, reporting and specifications for all building electrical systems, site servicing and review of submittals for these systems in new and renovation construction.
Association of Professional Engineers of Ontario

MILTON #13 PUBLIC SCHOOL
1345 TRUDEAU DRIVE
MILTON, ON

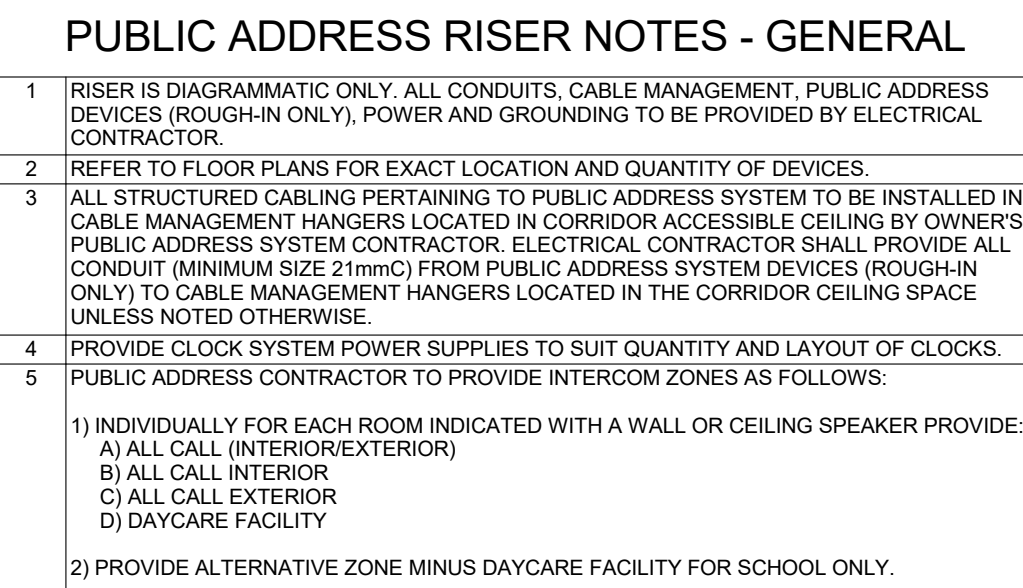
LEGAL DESCRIPTION
PART OF LOT 6, CONCESSION 5
TOWN OF MILTON, REGION OF
HALTON

MILTON DISTRICT SCHOOL BOARD
1100 SINGLTON EDUCATION CENTRE
BURLINGTON, ON L7R 5Z2
TEL: (905) 335-3683
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**AUXILIARY RISERS
(1 OF 2)**

**HOSSACK & ASSOCIATES
ARCHITECTS**
1000 Lakeshore Drive
Mississauga, Ontario L5M 1A8
Tel: (905) 884-8888 Fax: (905) 884-8889

DEI Consulting Engineers
MECHANICAL ELECTRICAL AQUATIC
SCALE: As Indicated
PROJECT: 22124
DATE: 26-01-13
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55 Northland Road,
Windsor, ON, N9A 1V9
Phone: 519-745-2555
Website: deiconsulting.ca
Project Number: 22124

Consulting Engineers

MECHANICAL	ELECTRICAL	AQUATIC
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DATE 26-01-13	22124	
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FLOORBOX SCHEDULE									
Item	Quantity	Drawing Number	Type	Device	Finish	Flt	No. Gangs	Description	
F11	1	WIRING CDR #101-BAND-020, REF-001	ON-GRAB	TWO (2) X 26A DUPLEX RECEPTABLES	TRD	YES	2	RECESSED CONCRETE FLOORBOX ON DEVICES AS NOTED AND FLANGED COVER ASSEMBLY COVER, STANDARD COVER FINISH TO BE CONFORMED BY ARCHITECT. PROVIDE 25mcf FOR POWER AND 35mcf FOR COMMUNICATION CONTRACTORS USE TO DO CON BOX LOCATION AS NOTED.	
		WELLBURN C-2W Critical		TWO (2) X 26A DUPLEX RECEPTABLES	TRD	YES	2	RECESSED CONCRETE FLOORBOX ON DEVICES AS NOTED AND FLANGED COVER ASSEMBLY COVER, STANDARD COVER FINISH TO BE CONFORMED BY ARCHITECT. PROVIDE 25mcf FOR POWER AND 35mcf FOR COMMUNICATION CONTRACTORS USE TO DO CON BOX LOCATION AS NOTED.	
		WELLBURN C-2W Critical		TWO (2) X 26A DUPLEX RECEPTABLES	TRD	YES	2	RECESSED CONCRETE FLOORBOX ON DEVICES AS NOTED AND FLANGED COVER ASSEMBLY COVER, STANDARD COVER FINISH TO BE CONFORMED BY ARCHITECT. PROVIDE 25mcf FOR POWER AND 35mcf FOR COMMUNICATION CONTRACTORS USE TO DO CON BOX LOCATION AS NOTED.	
		WELLBURN APPROVED EQUIPMENT		TWO (2) X 26A DUPLEX RECEPTABLES	TRD	YES	2	RECESSED CONCRETE FLOORBOX ON DEVICES AS NOTED AND FLANGED COVER ASSEMBLY COVER, STANDARD COVER FINISH TO BE CONFORMED BY ARCHITECT. PROVIDE 25mcf FOR POWER AND 35mcf FOR COMMUNICATION CONTRACTORS USE TO DO CON BOX LOCATION AS NOTED.	
F12	1	WIRING CDR #101-BAND-020, REF-001	POKE-THRU	ONE (1) X 26A DUPLEX RECEPTABLE	TRD	YES	2	4" POKE-THRU CONCRETE BOX DEVICES AS NOTED AND FLANGED COVER ASSEMBLY COVER, STANDARD COVER FINISH TO BE CONFORMED BY ARCHITECT. PROVIDE 25mcf FOR POWER AND 35mcf FOR COMMUNICATION CONTRACTORS USE TO DO CON BOX LOCATION AS NOTED.	
		WELLBURN EQUIVALENT		ONE (1) X 26A DUPLEX RECEPTABLE	TRD	YES	2	4" POKE-THRU CONCRETE BOX DEVICES AS NOTED AND FLANGED COVER ASSEMBLY COVER, STANDARD COVER FINISH TO BE CONFORMED BY ARCHITECT. PROVIDE 25mcf FOR POWER AND 35mcf FOR COMMUNICATION CONTRACTORS USE TO DO CON BOX LOCATION AS NOTED.	
		WELLBURN EQUIVALENT		ONE (1) X 26A DUPLEX RECEPTABLE	TRD	YES	2	4" POKE-THRU CONCRETE BOX DEVICES AS NOTED AND FLANGED COVER ASSEMBLY COVER, STANDARD COVER FINISH TO BE CONFORMED BY ARCHITECT. PROVIDE 25mcf FOR POWER AND 35mcf FOR COMMUNICATION CONTRACTORS USE TO DO CON BOX LOCATION AS NOTED.	
		WELLBURN EQUIVALENT		ONE (1) X 26A DUPLEX RECEPTABLE	TRD	YES	2	4" POKE-THRU CONCRETE BOX DEVICES AS NOTED AND FLANGED COVER ASSEMBLY COVER, STANDARD COVER FINISH TO BE CONFORMED BY ARCHITECT. PROVIDE 25mcf FOR POWER AND 35mcf FOR COMMUNICATION CONTRACTORS USE TO DO CON BOX LOCATION AS NOTED.	

HEATER SCHEDULE				
Type	Manufacturer	Model	Description	
A	Outlet Canada	OAC20000-RT	3000 WATT 208 VOL SINGLE PHASE FAN FORCED HEATER C/W RECESSED MOUNTING BOX. 24V CONTROL, RELAY WITH TRANSFORMER, AND STANDARD FACTORY FINISH TO SUIT ARCHITECT. HEATER MOUNTING HEIGHT: MINIMUM 1020mm A.F.F.	
B	Outlet Canada	OAC01502-RT	1500 WATT 208 VOL SINGLE PHASE FAN FORCED HEATER C/W RECESSED MOUNTING BOX. 24V CONTROL, RELAY WITH TRANSFORMER, AND STANDARD FACTORY FINISH TO SUIT ARCHITECT.	
C	Outlet Canada	DM1252 C/W KIT-OMT-MR-208	1250 WATT 208 VOL SINGLE PHASE BASEBOARD HEATER C/W 24V CONTROL, RELAY WITH TRANSFORMER, AND STANDARD FACTORY FINISH TO SUIT ARCHITECT. HEATER MOUNTING HEIGHT: 1020mm A.F.F.	
D	Outlet Canada	OAE5000	3750 WATT 208 VOL SINGLE PHASE UNIT HEATER C/W CEILING MOUNTING BRACKET* AND STANDARD FACTORY FINISH. CONTRACTOR TO PROVIDE SEPARATE 208V-24V TRANSFORMER. 24V CONTROL, RELAY WITH TRANSFORMER, AND 24V C/WL. COORDINATE WITH BAS TIE FOR CONNECTION. REFER TO DRAWINGS FOR LOCATIONS. HEATER MOUNTING HEIGHT: 3000mm A.F.F.	
E	Outlet Canada	DM1950 C/W KIT-OMT-MR-208	1950 WATT 208 VOL SINGLE PHASE BASEBOARD HEATER C/W 24V CONTROL, RELAY WITH TRANSFORMER, AND STANDARD FACTORY FINISH TO SUIT ARCHITECT. HEATER MOUNTING HEIGHT: 1000mm A.F.F. * UNLESS OTHERWISE NOTED.	
F	Outlet Canada	DM1250 C/W KIT-OMT-MR-208	1250 WATT 208 VOL SINGLE PHASE BASEBOARD HEATER C/W INTEGRAL, THERMOSTAT AND STANDARD FACTORY FINISH TO SUIT ARCHITECT. HEATER MOUNTING HEIGHT: 1000mm A.F.F.	
G	Outlet Canada	DCR1100	1200 WATT 208 VOL SINGLE PHASE KICKSPACE HEATER. CONTRACTOR TO PROVIDE SEPARATE 208V-24V TRANSFORMER AND 24V C/WL. COORDINATE WITH BAS TIE FOR CONNECTION. REFER TO DRAWINGS FOR LOCATIONS. HEATER SHALL BE MOUNTED WITH ANCHORS. COORDINATE WITH BAS WORK. TRADE ON C/WL.	
H	OUTLET CANADA	HP-208-3-300W C/W	ARCHITECTURAL, RADIANT PANEL, C/W DRYWALL, CEILING FAN. REQUIRES 30mm GROUND FLOOR PLANT BRANCH CIRCUITS FOR EACH PANEL.	
J	Outlet Canada	OAC20000-RT	3000 WATT 208 VOL SINGLE PHASE FAN FORCED HEATER C/W RECESSED MOUNTING BOX. 24V CONTROL, RELAY WITH TRANSFORMER, AND STANDARD FACTORY FINISH TO SUIT ARCHITECT. HEATER MOUNTING HEIGHT: MINIMUM 1020mm A.F.F.	

LIGHT FIXTURE SCHEDULE (EXTERIOR)

[illegible]

LIGHT FIXTURE SCHEDULE (INTERIOR)										
Item	Manufacturer/Catalog Number	Voltage	Lamp			Mounting	Listings	Description		
			Type	Lumen	Color Temperature					
C1	VISA CAT. #BDP433-430K(H)MYLTL170VX10A(OA)K80 VISO CAT. #BD091940 EUREKA CAT. #421-135-LED-40-120V-0-STEM-WEH-VH	120V	LED	3000	4000K	19.6W	80	SUSPENDED	17" DIAMETER, 2" LONG LED RECESSED CYLINDER C/W MATTE WHITE ACRYLIC DIFFUSER, INTERNAL DRIVER, STEM MOUNT TYPE AND CEILING ZIPPY FINISH TO BE CONFIRMED BY ARCHITECT FROM STANDARD FINISHES.	
C2	DALE CAT. #RED119H CW #8003-B ELITE CAT. #LED-HL41-240-30K-50-WH	120V	LED	250	3000K	4.0W	90	SURFACE	2.75" (70mm) DIAMETER LED UNDERCABT PLUCK FIXTURE C/W ALUMINUM HOUSING, FROSTED LENS, AND WHITE FINISH. EXTENSION CORDS PER RUN AND ALL CONNECTORS, MOUNTING ACCESSORIES, ETC. REQUIRED TO PROVIDE A COMPLETE INSTALLATION. ARCHITECT TO CONFIRM FINISH.	
L1	COOPER CAT. #830X-38BL-U-UNV-L840-CD-1 C/W AYC-W-8X305N-4FT-B LITHONIA CAT. #ECL4-130-300LM SEF FSL W/O MVOLT C21 9-10V DIMMING DRIVER AND WIRE GARD WGS CAT. #WGS25W02-X48 SIGNIFY CAT. #R0542406BCST-UN5-DIM-FRR-126-SDS4WG (SET TO 4000K AND 4850LM)	120V	LED	4601	4000K	30W	80	SUSPENDED	4" (120mm) SURFACE LED STRIP LIGHT C/W WIDE LENSED OPTICAL DISTRIBUTION, CHAIN SUSPENSION KIT, 10% 0-10V DIMMING DRIVER, AND WIRE GARD. NOTE: SUSPND TO MAINTAIN MAXIMUM HEADROOM.	
L2	COOPER CAT. #830X-38BL-U-UNV-L840-CD-1 C/W AYC-W-8X305N-4FT-B LITHONIA CAT. #ECL4-130-300LM SEF FSL W/O MVOLT C21 9-10V DIMMING DRIVER AND WIRE GARD WGS CAT. #WGS25W02-X48 SIGNIFY CAT. #R0542406BCST-UN5-DIM-FRR-126-SDS4WG (SET TO 2500K AND 3000LM)	120V	LED	3170	4000K	23.0W	80	SUSPENDED	4" (120mm) SURFACE LED STRIP LIGHT C/W WIDE LENSED OPTICAL DISTRIBUTION, CHAIN SUSPENSION KIT, 10% 0-10V DIMMING DRIVER, AND WIRE GARD. NOTE: SUSPND TO MAINTAIN MAXIMUM HEADROOM.	
L3	COOPER CAT. #81SLST04000-120V LITHONIA CAT. #ES3-140-100LM SEF FSL W/O MVOLT C21 9-10V DIMMING DRIVER AND WIRE GARD SIGNIFY CAT. #F353440-840-UNV-DIM-FRR-126-SDS4WG (SET TO 2500K AND 3000LM)	120V	LED	4100	4000K	44.2W	80	SUSPENDED	4" (120mm) SURFACE LED STRIP LIGHT C/W WIDE LENSED OPTICAL DISTRIBUTION, CHAIN SUSPENSION KIT, 10% 0-10V DIMMING DRIVER, AND WIRE GARD. NOTE: SUSPND TO MAINTAIN MAXIMUM HEADROOM.	
L5	COOPER CAT. #H8E1D-58BL-U-UNV-L840-CD-1 C/W AYC-W-8X305N-4FT-B LITHONIA CAT. #ECL4-130-300LM SEF FSL W/O MVOLT C21 9-10V DIMMING DRIVER AND WIRE GARD WGS CAT. #WGS25W02-X48 SIGNIFY CAT. #R0542406BCST-UN5-DIM-FRR-126-SDS4WG (SET TO 2500K AND 3000LM)	120V	LED	2415	154W	15.4W	80	RECESSED	LED HIGH-BAY FIXTURE C/W WIDE DISTRIBUTION OPTICS, SEMI-REFLECTIVE ACRYLIC LENS, WIRE GUARD, AND TWO 0-10V DIMMING DRIVER, NOTED BY THE ARCHITECT TO BE INSTALLED TO INSITUUT CHANNELS SPANNING ACROSS THE TOP OF THE BOTTOM CHORD OF THE JOISTS. SUSPENDED TO PROVIDE A COMPLETE INSTALLATION. ENTIRE FIXTURE ASSEMBLY TO HAVE A WHITE FINISH.	
L6	3G LIGHTING CAT. #IGS-41-D-D000-580-40K-UNV-DIM-FLL-XX-120-8 MARK CAT. #ECL4-130-300LM SEF FSL W/O MVOLT C21 9-10V DIMMING DRIVER AND WIRE GARD WGS CAT. #WGS25W02-X48 SIGNIFY CAT. #R0542406BCST-UN5-DIM-FRR-126-SDS4WG (SET TO 2500K AND 3000LM)	120V	LED	4600	4000K	30.4W	80	RECESSED	4" (120mm) LONG X 4" (120mm) WIDE DIRECT RECESSED LUMINAIRE C/W EXTRUDED ALUMINUM HOUSING, 1% 0-10V DIMMING DRIVER, AND SATIN WHITE FLUSH DIFFUSER. STANDARD FINISH TO BE SELECTED BY ARCHITECT.	
L7	3G LIGHTING CAT. #IGS-41-D-D000-580-40K-UNV-DIM-FLL-XX-120-8 MARK CAT. #ECL4-130-300LM SEF FSL W/O MVOLT C21 9-10V DIMMING DRIVER AND WIRE GARD WGS CAT. #WGS25W02-X48 SIGNIFY CAT. #R0542406BCST-UN5-DIM-FRR-126-SDS4WG (SET TO 2500K AND 3000LM)	120V	LED	4600	4000K	30.4W	80	RECESSED	4" (120mm) LONG X 4" (120mm) WIDE DIRECT RECESSED LUMINAIRE C/W EXTRUDED ALUMINUM HOUSING, 1% 0-10V DIMMING DRIVER, AND SATIN WHITE FLUSH DIFFUSER. STANDARD FINISH TO BE SELECTED BY ARCHITECT.	
R1	COOPER CAT. #H8E1D-58BL-U-UNV-L840-CD-1 C/W AYC-W-8X305N-4FT-B LITHONIA CAT. #ECL4-130-300LM SEF FSL W/O MVOLT C21 9-10V DIMMING DRIVER AND WIRE GARD WGS CAT. #WGS25W02-X48 SIGNIFY CAT. #R0542406BCST-UN5-DIM-FRR-126-SDS4WG (SET TO 2500K AND 3000LM)	120V	LED	348	4000K	10W	80	RECESSED	RECESSED 1" (25mm) DIAMETER LED DOWNLIGHT C/W FLUSH MOUNT, EXTRUDED ALUMINUM HOUSING, 1% 0-10V DIMMING DRIVER, AND SATIN WHITE FLUSH DIFFUSER. STANDARD FINISH TO BE SELECTED BY ARCHITECT.	
S1	3G LIGHTING CAT. #IGS-41-D-D100-580-40K-UNV-DIM-FLL-XX-120-8 MARK CAT. #ECL4-130-300LM SEF FSL W/O MVOLT C21 9-10V DIMMING DRIVER AND WIRE GARD WGS CAT. #WGS25W02-X48 SIGNIFY CAT. #R0542406BCST-UN5-DIM-FRR-126-SDS4WG (SET TO 2500K AND 3000LM)	120V	LED	3000	4000K	30W	80	SUSPENDED	4" (120mm) LONG X 4" (120mm) WIDE DIRECT SUSPENDED LUMINAIRE C/W ARCADE CABLE SUSPENSION CHORD LENGTH 120" ON SITE, STRUCTURE MOUNTING, EXTRUDED ALUMINUM HOUSING, 1% 0-10V DIMMING DRIVER, AND SATIN WHITE FLUSH DIFFUSER. STANDARD FINISH TO BE SELECTED BY ARCHITECT.	
S3	3G LIGHTING CAT. #IGS-41-D-D750-580-40K-UNV-DIM-FLL-XX-120-8 MARK CAT. #ECL4-130-300LM SEF FSL W/O MVOLT C21 9-10V DIMMING DRIVER AND WIRE GARD WGS CAT. #WGS25W02-X48 SIGNIFY CAT. #R0542406BCST-UN5-DIM-FRR-126-SDS4WG (SET TO 2500K AND 3000LM)	120V	LED	6000	4000K	39.2W	80	SUSPENDED	4" (120mm) LONG X 4" (120mm) WIDE DIRECT SUSPENDED LUMINAIRE C/W ARCADE CABLE SUSPENSION CHORD LENGTH 120" ON SITE, STRUCTURE MOUNTING, EXTRUDED ALUMINUM HOUSING, 1% 0-10V DIMMING DRIVER, AND SATIN WHITE FLUSH DIFFUSER. STANDARD FINISH TO BE SELECTED BY ARCHITECT.	
S4	3G LIGHTING CAT. #IGS-41-D-D000-580-40K-UNV-DIM-FLL-XX-120-8 MARK CAT. #ECL4-130-300LM SEF FSL W/O MVOLT C21 9-10V DIMMING DRIVER AND WIRE GARD WGS CAT. #WGS25W02-X48 SIGNIFY CAT. #R0542406BCST-UN5-DIM-FRR-126-SDS4WG (SET TO 2500K AND 3000LM)	120V	LED	4600	4000K	30.4W	80	SUSPENDED	4" (120mm) LONG X 4" (120mm) WIDE DIRECT SUSPENDED LUMINAIRE C/W ARCADE CABLE SUSPENSION CHORD LENGTH 120" ON SITE, STRUCTURE MOUNTING, EXTRUDED ALUMINUM HOUSING, 1% 0-10V DIMMING DRIVER, AND SATIN WHITE FLUSH DIFFUSER. STANDARD FINISH TO BE SELECTED BY ARCHITECT.	
S5	3G LIGHTING CAT. #IGS-41-D-D000-580-40K-UNV-DIM-FLL-XX-120-8 MARK CAT. #ECL4-130-300LM SEF FSL W/O MVOLT C21 9-10V DIMMING DRIVER AND WIRE GARD WGS CAT. #WGS25W02-X48 SIGNIFY CAT. #R0542406BCST-UN5-DIM-FRR-126-SDS4WG (SET TO 2500K AND 3000LM)	120V	LED	2700	4000K	19.2W	80	SUSPENDED	4" (120mm) LONG X 4" (120mm) WIDE DIRECT SUSPENDED LUMINAIRE C/W ARCADE CABLE SUSPENSION CHORD LENGTH 120" ON SITE, STRUCTURE MOUNTING, EXTRUDED ALUMINUM HOUSING, 1% 0-10V DIMMING DRIVER, AND SATIN WHITE FLUSH DIFFUSER. STANDARD FINISH TO BE SELECTED BY ARCHITECT.	
S6	3G LIGHTING CAT. #IGS-41-D-D000-580-40K-UNV-DIM-FLL-XX-120-8 MARK CAT. #ECL4-130-300LM SEF FSL W/O MVOLT C21 9-10V DIMMING DRIVER AND WIRE GARD WGS CAT. #WGS25W02-X48 SIGNIFY CAT. #R0542406BCST-UN5-DIM-FRR-126-SDS4WG (SET TO 2500K AND 3000LM)	120V	LED	3000	4000K	30W	80	SUSPENDED	4" (180mm) LONG X 4" (120mm) WIDE DIRECT SUSPENDED LUMINAIRE C/W ARCADE CABLE SUSPENSION CHORD LENGTH 120" ON SITE, STRUCTURE MOUNTING, EXTRUDED ALUMINUM HOUSING, 1% 0-10V DIMMING DRIVER, AND SATIN WHITE FLUSH DIFFUSER. STANDARD FINISH TO BE SELECTED BY ARCHITECT.	
S8	3G LIGHTING CAT. #IGS-280-B-1-A08* CAMELIA LIGHTING CAT. #T020-30-10-30AD	120V	LED	3000	4000K	19.6W	80	SUSPENDED	30" DIAMETER LED PLUCK C/W INTEGRAL POWER SUPPLY, 0-10V DIMMING DRIVER, ARCADE CABLE SUSPENSION CHORD TO CANOPY AND STANDARD POWER CORD LIGHT TO BE CONFIRMED BY ARCHITECT.	
S9	3G LIGHTING CAT. #IGS-280-B-1-A08* CAMELIA LIGHTING CAT. #T020-24-10-24AD	120V	LED	3325	4000K	40W	80	SUSPENDED	24" DIAMETER LED PLUCK C/W INTEGRAL POWER SUPPLY, 0-10V DIMMING DRIVER, ARCADE CABLE SUSPENSION CHORD TO CANOPY AND STANDARD POWER CORD LIGHT TO BE CONFIRMED BY ARCHITECT.	
S0	3G LIGHTING CAT. #IGS-280-B-1-A08* CAMELIA LIGHTING CAT. #T020-16-10-16AD	120V	LED	3000	4000K	19.6W	80	SUSPENDED	16" DIAMETER LED PLUCK C/W INTEGRAL POWER SUPPLY, 0-10V DIMMING DRIVER, ARCADE CABLE SUSPENSION CHORD TO CANOPY AND STANDARD POWER CORD LIGHT TO BE CONFIRMED BY ARCHITECT.	
T1	COOPER CAT. #K2C22-LD-45-UNV-L840-CD-1 LITHONIA CAT. #ECL21-48L-ASGM MVOLT C21 L1P840 SIGNIFY CAT. #EYV3G8L840-4-LS-UNV-DIM FMA24	120V	LED	4027	4000K	30.4W	80	RECESSED	2X4" (61mmx120mm) VOLUMETRIC LED TROFFER C/W SMOOTH FROSTED ACRYLIC CENTRE LENS, 1% 0-10V DIMMING DRIVER, AND WHITE FINISH.	
T2	COOPER CAT. #K2C22-LD-45-UNV-L840-CD-1 LITHONIA CAT. #ECL21-48L-ASGM MVOLT C21 L1P840 SIGNIFY CAT. #EYV3G8L840-4-LS-UNV-DIM FMA24	120V	LED	4027	4000K	30.5W	80	RECESSED	2X4" (61mmx120mm) VOLUMETRIC LED TROFFER C/W SMOOTH FROSTED ACRYLIC CENTRE LENS, 1% 0-10V DIMMING DRIVER, AND WHITE FINISH.	
T3	COOPER CAT. #K2C22-LD-45-UNV-L840-CD-1-DF-20W LITHONIA CAT. #ECL21-48L-ASGM MVOLT C21 L1P840DG04 SIGNIFY CAT. #EYV3G8L840-4-LS-UNV-DIM FMA24	120V	LED	4027	4000K	30.6W	80	RECESSED (DOWLAY)	2X4" (61mmx120mm) VOLUMETRIC LED TROFFER C/W SMOOTH FROSTED ACRYLIC CENTRE LENS, 1% 0-10V DIMMING DRIVER, AND WHITE FINISH, AND DRYWALL TRIM KIT.	
T4	COOPER CAT. #K14C22-LD-44-UNV-L840-CD-1 C/W DF-14WJ LITHONIA CAT. #ECL14-48L-ASGM MVOLT C21 L1P840 SIGNIFY CAT. #EYV4H8L840-4-LS-UNV-DIM FMA24	120V	LED	4008	4000K	34.4W	80	RECESSED	1X4" (305mmx120mm) VOLUMETRIC LED TROFFER C/W SMOOTH FROSTED ACRYLIC CENTRE LENS, 1% 0-10V DIMMING DRIVER, AND WHITE FINISH.	
T5	COOPER CAT. #K2C22-LD-52-UNV-L840-CD-1 LITHONIA CAT. #ECL21-36L-ASGM MVOLT C21 L1P840 SIGNIFY CAT. #EYV3G8L840-4-LS-UNV-DIM FMA22	120V	LED	3334	4000K	24.2W	80	RECESSED	2X2" (61mmx100mm) VOLUMETRIC LED TROFFER C/W SMOOTH FROSTED ACRYLIC CENTRE LENS, 1% 0-10V DIMMING DRIVER, AND WHITE FINISH.	
COMBO UNIT	AMALITE CAT. #CAAPRW SERIES EM1 #CAAPRW1200-25MM-LWHY-ATD #2CAAPRW1200-25MM-LWHY-ATD STANPICO CAT. #PMM0L SERIES EM1 #PMM0L1050-2NLI-ATD EM2 #PMM0L1072-2NLI-ATD LUMICKAT CAT. #L4C SERIES EM1 #L4CWV1200S-D1ATN EM2 #L4CWV1202S-D1ATN	120V/120V	LED	-	-	2.4W PER FOOT	N/A	SURFACE	LED EXTRUDED ALUMINUM PICTORAMA FIXTURE C/W GREEN FACE AND WHITE LEGEND, UNIVERSAL, MOUNTING TO SUIT WALL, END OR CEILING, MAXIMUM 2.5" (63mm) THICKNESS, 12V INTERNAL SEALED RECHARGEABLE BATTERY PROVIDING NOMINAL EMERGENCY RUN TIME AS NOTED BY THE ARCHITECT TO HAVE COMPACT DESIGN WITH WHITE COLOUR, FULL ALUMINOUS, ADJUSTMENT, AND 360° ROTATION. NO BATTERIES SHALL BE C/W WIREGUARD, FACES AND CHEVRONS TO SUIT DRAWINGS.	
EMERG LIGHTS	AMALITE CAT. #RM82M12V4WV-LWHY STANPICO CAT. #M2C120-25MM-LWHY-LWHY LUMICKAT CAT. #M04GLD1	12V	LED	-	-	2.4W PER FOOT	N/A	SURFACE	TWIN HEAD LED REMOTE M816 FUTURE C/W COMPACT DESIGN, THERMOPLASTIC CONSTRUCTION, WHITE MARKED BY ARCHITECT, ADJUSTMENT, AND 360° ROTATION.	
EMERG LIGHTS (VANDAL RESIST)	AMALITE CAT. #RM2CV12V4WV-LWHY STANPICO CAT. #M2C120-25MM-LWHY-LWHY LUMICKAT CAT. #M04GLD1	12V	LED	-	-	2.4W PER FOOT	N/A	SURFACE	TWIN HEAD 1" CUBE 2 LAMP LED REMOTE M816 FUTURE C/W COMPACT DESIGN, RESISTANT DESIGN, WHITE COLOUR, FULL ARKING ADJUSTMENT, 360° ROTATION, AND LEAN COVER.	
EMERG BATT.	AMALITE #EBST12 SERIES: EM1 #EBST1200-25MM-LWHY-ATD EM2 #EBST1200-25MM-LWHY-ATD STANPICO CAT. #PMM0L SERIES EM1 #PMM0L1050-2NLI-ATD EM2 #PMM0L1072-2NLI-ATD LUMICKAT CAT. #RGS SERIES	120V/120V	LED	-	-	2.4W PER FOOT	N/A	SURFACE	LONG LIFE, SEALED RECHARGEABLE BATTERY PROVIDING NOMINAL EMERGENCY RUN TIME AS NOTED BY THE ARCHITECT. NUMBER C/W MICRO SIZE 12V 4W (MINIMUM) LED HEADS AND AUTOTEST FEATURE.	
EXIT LIGHTS	AMALITE CAT. #PRL4N18MMVHTN-DC STANPICO CAT. #RMX400H-DC LUMICKAT CAT. #L3N3X1	120V/120V	LED	-	-	2.4W PER FOOT 2.4W PER FOOT	N/A	SURFACE	LED EXTRUDED ALUMINUM PICTORAMA FIXTURE C/W GREEN FACE AND WHITE LEGEND, UNIVERSAL, MOUNTING TO SUIT WALL, END OR CEILING, AND MAXIMUM 2.5" (63mm) THICKNESS, FACES AND CHEVRONS TO SUIT DRAWINGS.	
Notes:										
1. LED LUMEN VALUES QUOTED FOR FIXTURES ARE TO BE CONSIDERED MINIMUM, AND AS ABSOLUTE OR DELIVERED LUMENS, LUMEN VALUES SHOULD NOT EXCEED MORE THAN 10% OF SPECIFIED OUTPUT.										
2. WHERE NOTED ABOVE THAT FIXTURES ARE TO HAVE FINISH TO SUIT ARCHITECT THE FINISH WILL BE SELECTED FROM MANUFACTURERS AVAILABLE STANDARD FINISHES.										
IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO IDENTIFY TO THE ELECTRICAL CONSULTANT'S ATTENTION ANY DISCREPANCIES BETWEEN THE FIXTURE CATALOG NUMBER AND FIXTURE DESCRIPTION, TYPE AND OUTPUT, CAPACITY, OR MOUNTING, PRIOR TO FINISH CLOSE. NO BATTERIES WILL BE ENTERPRISES FOR FAILURE TO DO SO. FINAL FIXTURE CHARACTERISTICS WILL BE MARKED BY THE CONSULTANT AT THE TIME OF SHOP DRAWING REVIEW, FOR THE PURPOSES OF BIDDING, INCLUDE FOR A FIXTURE MATCHING THE VOLTAGE, MOUNTING, LOCATION AND NOTATIONS SHOWN ON LIGHTING DESIGN DRAWINGS.										

[illegible]

EQUIPMENT WIRING SCHEDULE																									E = ELECTRICAL M = MECHANICAL O = OTHERS	
Description		Electrical Data					Starter				Ctrl Device		Isolating Device		Remote Items				Other		Interlock		Remarks			
Mechanical Item	Description	Provided By	Voltage	Size (kVA/amps)	Phase	MOCP	MOCP	MOCP	MOCP	MOCP	MOCP	MOCP	MOCP	MOCP	MOCP	MOCP	MOCP	MOCP	MOCP	MOCP	MOCP	MOCP	MOCP	MOCP	Remarks	
1	MUA-1	M	575	110 MCA	3	150																				
2	MUA-2	M	575	23 MCA	3	30																				
3	MUA-3	M	575	110 MCA	3	150																				
4	MUA-4	M	575	108 MCA	3	125																				
5	MUA-5	M	575	22 MCA	3	30																				
6	HVAC-1	M	575	36 MCA	3	45																				
7	HVAC-2	M	575	11 MCA	3	15																				
8	BOILER B-1	M	120	FHP	1	20																				
9	BOILER B-2	M	120	FHP	1	20																				
10	CIRC PUMP C-1	M	575	15 HP	3																					
11	CIRC PUMP C-2	M	575	15 HP	3																					
12	BOILER PUMP BP-1	M	575	2 HP	3																					
13	BOILER PUMP BP-2	M	575	2 HP	3																					
14	WATER HEATER WH-1	M	208	67 MCA	1	100																				
15	WATER HEATER WH-2	M	208	67 MCA	1	100																				
16	WATER HEATER WH-3	M	575	30 KW	3																					
17	HW RECIRC PUMP RP-1	M	120	FHP	1																					
18	HW RECIRC PUMP RP-2	M	120	FHP	1																					
19	COOLING TOWER	M	575	40 HP	3																					
20	COOLING TOWER PAN HEATER	M	575	7 KW	3																					
21	COOLING TOWER CHEMICAL PUMP	M	120	FHP	1																					
22	COOLING TOWER INTAKE DAMPER	M	120	FHP	1																					
23	COOLING TOWER SPRAY PUMP	M	575	3 HP	3																					
24	COOLING TOWER EXHAUST DAMPER	M	120	FHP	1																					
25	COOLING TOWER CONTROL PANEL CT-1	M	575	48.5 FLA	3																					
26	BAS PANEL	M	120	FHP	1																					
27	AC-1	M	208	1 MCA	1																					
28	CU-1	M	208	19 MCA	1	30																				
29	GLYCOL TANK AND PUMP	M	120	FHP	1																					
30	NFPA HOOD	M	120	FHP	1																					
31	FIRE SUP. SYS.	M	120	FHP	1																					
32	ELEVATOR SUMP	M	575	1 HP	3																					
33	HEAT PUMP HP 1.1	M	208	6.3 MCA	1	15																				
34	HEAT PUMP HP 1.2	M	208	6.3 MCA	1	15																				
35	HEAT PUMP HP 1.3	M	208	15.7 MCA	1	25																				
36	HEAT PUMP HP 1.4	M	208	15.7 MCA	1	25																				
37	HEAT PUMP HP 1.5	M	208	15.7 MCA	1	25																				
38	HEAT PUMP HP 1.6	M	208	15.7 MCA	1	25																				
39	HEAT PUMP HP 1.7	M	208	15.7 MCA	1	25																				
40	HEAT PUMP HP 1.8	M	208	9.7 MCA	1	15																				
41	HEAT PUMP HP 1.9	M	208	9.7 MCA	1	15																				
42	HEAT PUMP HP 1.10	M	208	9.7 MCA	1	15																				
43	HEAT PUMP HP 1.11	M	208	15.7 MCA	1	25																				
44	HEAT PUMP HP 1.12	M	208	15.7 MCA	1	25																				
45	HEAT PUMP HP 1.13	M	208	11.8 MCA	1	15																				
46	HEAT PUMP HP 1.14	M	208	7.9 MCA	1	15																				
47	HEAT PUMP HP 1.15	M	208	15.7 MCA	1	25																				
48	HEAT PUMP HP 1.16	M	208	15.7 MCA	1	25																				
49	HEAT PUMP HP 1.17	M	208	15.7 MCA	1	25																				
50	HEAT PUMP HP 1.18	M	208	15.7 MCA	1	25																				
51	HEAT PUMP HP 1.19	M	208	15.7 MCA	1	25																				
52	HEAT PUMP HP 1.20	M	208	15.7 MCA	1	25																				
53	HEAT PUMP HP 1.21	M	208	15.7 MCA	1	25																				
54	HEAT PUMP HP 1.22	M	208	15.7 MCA	1	25																				
55	HEAT PUMP HP 2.1	M	208	5.19 MCA	1	15																				
56	HEAT PUMP HP 2.2	M	208	7.9 MCA	1	15																				
57	HEAT PUMP HP 2.3	M	208	15.7 MCA	1	25																				
58	HEAT PUMP HP 2.4	M	208	9.7 MCA	1	15																				
59	HEAT PUMP HP 2.5	M	208	15.7 MCA	1	25																				
60	HEAT PUMP HP 2.6	M	208	15.7 MCA	1	25																				
61	HEAT PUMP HP 2.7	M	208	15.7 MCA	1	25		</																		