ELECTRICAL LEGEND

ABBREVIATION

E	EXISTING TO REMAIN
R	EXISTING TO BE DEMOLISHED/REMOVED
N	NEW MATERIAL/EQUIPMENT/SERVICES
REL	MATERIAL/EQUIPMENT/SERVICES TO BE RELOCATED.
ER	EXISTING IN RELOCATED POSITION
WP	WEATHER PROOF
NIC	NOT IN CONTRACT
TR	TAMPER RESISTANT
WG	C/W WIRE GUARD
WP	WEATHER PROOF ENCLOSURE
RL	FIRE DETECTOR WITH RELAY BASE
RR	REMOVE AND REINSTALL AS NEEDED DURING CONSTRUCTION
VR	VANDAL-RESISTANT EQUIPMENT

LINE TYPES

	EXISTING TO REMAIN EQUIPMENT
	EXISTING TO BE REMOVED EQUIPMENT
	NEW EQUIPMENT

EMERGENCY LIGHTING & EXIT SIGN

	WALL MOUNTED EXIT SIGN
	CEILING MOUNTED EXIT SIGN
	CEILING MOUNTED COMBO EXIT SIGN & REMOTE HEADS
	CEILING MOUNTED REMOTE HEADS
	EMERGENCY BATTERY UNIT W/ AND W/O REMOTE HEADS
	COMBO EXIT SIGN & BATTERY UNIT C/W REMOTE HEADS
	REMOTE RECESSED EMERGENCY LIGHT FIXTURE

LIGHTING CONTROL

$	SINGLE GANG, LINE VOLTAGE, TOGGLE SWITCH
	TWO GANG, LINE VOLTAGE, TOGGLE SWITCH
	THREE GANG, LINE VOLTAGE, TOGGLE SWITCH
$3	THREE WAY LINE VOLTAGE LIGHT SWITCH
$OSD	LINE VOLTAGE OCCUPANCY SENSOR & DIMMER SWITCH
$LV	LOW VOLTAGE SWITCH
$OS	WALL MOUNTED OCCUPANCY SENSOR LIGHT SWITCH
$D	WALL MOUNTED OCCUPANCY DIMMER SWITCH
	WALL/CEILING/CORNER MOUNTED OCCUPANCY SENSORS
PC	PHOTOCELL SENSOR
DL	DAYLIGHT SENSOR

RECEPTACLES

	15A, 125V, DUPLEX RECEPTACLE
	20A, 125V, DUPLEX RECEPTACLE
	15A/20A, 125V QUAD RECEPTACLE, HEAVY DUTY COMMERCIAL W/ STAINLESS STEEL COPPERPLATE
	15A/20A, 125V DUPLEX RECEPTACLE (DEDICATED CIRCUIT), HEAVY DUTY COMMERCIAL W/ STAINLESS STEEL COPPERPLATE
	15A, 125V, DUPLEX AUTOMATIC CONTROLLED RECEPTACLE, HEAVY DUTY COMMERCIAL W/ STAINLESS STEEL COPPERPLATE
	15A/20A, 125V, ABOVE THE COUNTER DUPLEX RECEPTACLE, HEAVY DUTY COMMERCIAL W/ STAINLESS STEEL COPPERPLATE
	SPECIAL RECEPTACLE AS NOTED
GFI	GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE
WP	WEATHER PROOF RECEPTACLE
TR	TAMPER RESISTANT

COMMUNICATION

(X)	DATA/PHONE OUTLET BOX C/W CONDUIT AND CAT5E CABLE BACK TO THE NEAREST IT ROOM /CLOSET - (X) DENOTES QUANTITY OF DROPS
(X)	DATA OUTLET BOX C/W CONDUIT AND CAT5E CABLE BACK TO THE NEAREST IT ROOM/CLOSET - (X) DENOTES QUANTITY OF DROPS
IT	IT RACK
C WAP	DATA OUTLET BOX C/W CONDUIT AND CAT5E CABLE BACK TO THE NEAREST IT ROOM/CLOSET - CEILING MOUNTED - FOR WIRELESS ACCESS POINT INSTALLATION

PUBLIC ADDRESS SYSTEM

PA	PA SYSTEM RACK
LD	LOCK-DOWN BUTTON
S S	PA SPEAKER CEILING/WALL MOUNTED
ACC	ADMINISTRATIVE & MEDIA CONTROL CONSOLE
W/P W/G	OUTDOOR WEATHER PROOF HORN TYPE PA SPEAKER C/W WIRE GUARD
C/S	COMBO SPEAKER AND CALL SWITCH
CS	CALL SWITCH
	LOCK-DOWN STROBE & PA SPEAKER
	LOCK-DOWN STROBE

LIGHT FIXTURES

	EXISTING LIGHT FIXTURE TO REMAIN
	EXISTING LIGHT FIXTURE TO BE REMOVED
LX	NEW LIGHT FIXTURE AS SPECIFIED (LX = TYPE OF LIGHT FIXTURE | NL= CONNECTED TO NIGHT CIRCUIT)
NL LX	SAME AS ABOVE BUT CONNECTED TO NIGHT LIGHT CCT
LX LX	WALL/CEILING MOUNTED LIGHT FIXTURE (LX = TYPE OF LIGHT FIXTURE)
	STRIP LIGHT FIXTURE

SECURITY & ACCESS CONTROL

DA	SECURITY SYSTEM DOOR ALARM CONTACTS, RECESSED IN DOOR AND FRAME
CR	CARD READER
MD	SECURITY SYSTEM MOTION DETECTOR
MS	ENTRANCE INTERCOM SYSTEM MASTER STATION
DS	ENTRANCE INTERCOM SYSTEM DOOR STATION
ES	POWER CONNECTION TO ELECTRIC STRIKE
PB	DOOR OPENER PUSH BUTTON
PBL	PUSH BUTTON LOCK
ADO	AUTOMATIC DOOR OPERATOR
ED	EMERGENCY CALL SYSTEM LIGHT W/ SOUNDER MOUNTED AT 7'-6" AFF
EP	EMERGENCY ASSISTANCE PUSH BUTTON
EB	EMERGENCY ASSISTANCE SOUNDER & ANNUNCIATOR
SEC	SECURITY RACK / CONTROL PANEL

FIRE ALARM

	MANUAL PULL STATION
	HEAT DETECTOR
	SMOKE DETECTOR
	DUCT TYPE SMOKE DETECTOR
	120V SMOKE ALARM
	SMOKE ALARM C/W CO DETECTOR
	WALL/CEILING MOUNTED STROBE
H H	WALL/CEILING MOUNTED HORN
H H	WALL/CEILING MOUNTED COMBO HORN & STROBE
	FIRE ALARM CONTROL PANEL (FACP)
	FIRE ALARM ANNUNCIATOR PANEL (FAA)
RL	FIRE DETECTOR WITH RELAY BASE
RH	RATE-OF-RISE DETECTOR

POWER DISTRIBUTION

	UNFUSED DISCONNECTING MEANS
	FUSED DISCONNECTING MEANS
	COMBINATION MOTOR STARTER C/W FUSED/UNFUSED DISCONNECTING MEANS (NEMA TYPE C/W H.O.A SELECTOR SWITCH)
	MAGNETIC MOTOR STARTER C/W PILOT LIGHT
	SINGLE PHASE MOTOR LOAD
	THREE PHASE MOTOR LOAD
	DIRECT CONNECTION C/W DISCONNECT SWITCH FOR SINGLE PHASE MOTOR
	DIRECT CONNECTION C/W DISCONNECT SWITCH FOR THREE PHASE MOTOR
EF	EXHAUST FAN
$F	EXHAUST FAN SWITCH
	EQUIPMENT DIRECT CONNECTION
	TRANSFORMER AS SPECIFIED
	FLUSH OR RECESSED PANEL

OTHER EQUIPMENT

HD	ELECTRIC HAND DRYER
EMC	SCIENCE LAB UTILITIES SHUT OFF CONTROL PANEL
	PRE-FABRICATED CLASSROOM PANEL TO HOUSE THE INDICATED ELECTRICAL EQUIPMENT
	FIRE RATED PATHWAY EZ-PATH OR APPROVED EQUIVALENT

MECHANICAL EQUIPMENT WIRING SCHEDULE

ITEM / DESCRIPTION	LOOSE STARTERS / VFD E= BY ELECTRICAL M= BY MECHANICAL/OTHERS	HP RATING	kW RATING	FULL LOAD (AMPS)	STARTER & DISCONNECT: ISOLATING DEVICE: DISCONNECT	WP DISCONNECT	STARTER (MAG=MAGNETIC, UM=UNIT MOUNTED, MS=MANUAL SWITCH, LS =LIGHT SWITCH, T=LINE VOLTAGE THERMOSTAT)	BRANCH FEEDER: CONDUCTOR SIZE	CONDUIT SIZE	VOLTAGE/PHASE	OCPD SIZE	FIRE ALARM SHUTDOWN	REMARKS
EF-1	E	1/10	0.075	1.38	X	–	MAG	2x#12AWG+GND	21	115V/1ø	15	–	
EF-2	E	–	0.128	1.8	X	–	MS	2x#12AWG+GND	21	115V/1ø	15	–	
EF-3	E	–	0.128	1.8	X	–	MAG	2x#12AWG+GND	21	115V/1ø	15	–	
EF-4	E	1/10	0.075	1.38	X	–	MS	2x#12AWG+GND	21	115V/1ø	15	–	
EF-5	E	–	0.128	1.8	X	–	MAG	2x#12AWG+GND	21	115V/1ø	15	–	
EF-6	E	1/10	0.075	1.38	X	–	MS	2x#12AWG+GND	21	115V/1ø	15	–	
EF-7	E	1/10	0.075	1.3	X	–	MAG	2x#12AWG+GND	21	115V/1ø	15	–	
EF-8	E	–	0.02	0.18	X	–	MAG	2x#12AWG+GND	21	115V/1ø	15	–	
EF-9	E	–	0.02	0.18	X	–	MAG	2x#12AWG+GND	21	115V/1ø	15	–	
EF-10	E	–	0.083	0.56	X	–	MAG	2x#12AWG+GND	21	115V/1ø	15	–	CONTROLLED BY OCCUPANCY – INTERLOCK TO LIGHTING CIRCUIT
EF-11	E	–	0.02	0.18	X	–	MAG	2x#12AWG+GND	21	115V/1ø	15	–	
EF-12	E	1/15	0.05	1.3	X	–	MAG	2x#12AWG+GND	21	115V/1ø	15	–	
EF-13	E	–	0.02	0.18	X	–	MAG	2x#12AWG+GND	21	115V/1ø	15	–	CONTROLLED BY OCCUPANCY – INTERLOCK TO LIGHTING CIRCUIT
EF-14	E	1/4	0.186	2.85	–	X	MAG	2x#12AWG+GND	21	115V/1ø	15	–	
EF-15	E	1/6	0.124	4.4	–	X	MAG	2x#12AWG+GND	21	115V/1ø	15	–	CONTROLLED BY OCCUPANCY – INTERLOCK TO LIGHTING CIRCUIT
EF-16	E	1/6	0.124	4.4	–	X	MAG	2x#12AWG+GND	21	115V/1ø	15	–	CONTROLLED BY OCCUPANCY – INTERLOCK TO LIGHTING CIRCUIT
EF-17	E	1/4	0.186	2.85	–	X	MAG	2x#12AWG+GND	21	115V/1ø	15	–	CONTROLLED BY OCCUPANCY – INTERLOCK TO LIGHTING CIRCUIT
EF-18	E	1/6	0.124	2.2	–	X	MAG	2x#12AWG+GND	21	115V/1ø	15	–	
EF-19	E	1/4	0.186	2.85	–	X	MAG	2x#12AWG+GND	21	115V/1ø	15	–	
EF-20	E	1/4	0.186	2.85	–	X	MAG	2x#12AWG+GND	21	115V/1ø	15	–	
EF-21	E	1/4	0.186	2.85	–	X	MAG	2x#12AWG+GND	21	115V/1ø	15	–	CONTROLLED BY OCCUPANCY – INTERLOCK TO LIGHTING CIRCUIT
EF-22	E	3/4	0.56	8.8	–	X	MAG	2x#12AWG+GND	21	115V/1ø	20	–	
EF-23	E	2	1.5	12.5	–	X	MAG	2x#12AWG+GND	21	208V/1ø	25	–	
EF-24	E	1/6	0.124	4.4	–	X	MAG	2x#12AWG+GND	21	115V/1ø	15	–	CONTROLLED BY OCCUPANCY – INTERLOCK TO LIGHTING CIRCUIT
EF-25	E	1/6	0.124	4.4	–	X	MAG	2x#12AWG+GND	21	115V/1ø	15	–	CONTROLLED BY OCCUPANCY – INTERLOCK TO LIGHTING CIRCUIT
EF-26	E	1/4	0.186	2.85	–	X	MAG	2x#12AWG+GND	21	115V/1ø	15	–	CONTROLLED BY OCCUPANCY – INTERLOCK TO LIGHTING CIRCUIT
EF-27	E	–	0.128	1.8	X	–	MAG	2x#12AWG+GND	21	115V/1ø	15	–	
EF-28	E	–	0.128	1.8	X	–	MAG	2x#12AWG+GND	21	115V/1ø	15	–	
EF-29	E	1/4	0.186	2.85	–	X	MAG	2x#12AWG+GND	21	115V/1ø	15	–	
EF-30	E	1/4	0.186	5.8	–	X	MAG	2x#12AWG+GND	21	115V/1ø	15	–	
EF-31	E	1/10	0.075	1.5	–	X	MAG	2x#12AWG+GND	21	115V/1ø	15	–	
EF-32	E	1/4	0.186	5.8	–	X	MAG	2x#12AWG+GND	21	115V/1ø	15	–	
EF-33	E	1/2	0.372	6.4	–	X	MAG	2x#12AWG+GND	21	115V/1ø	15	–	
EF-34	E	1/4	0.186	5.8	–	X	MAG	2x#12AWG+GND	21	115V/1ø	15	–	
EF-35	E	1/4	0.186	2.85	–	X	MAG	2x#12AWG+GND	21	115V/1ø	15	–	
EF-36	E	1/4	0.186	2.85	–	X	MAG	2x#12AWG+GND	21	115V/1ø	15	–	
EF-37	E	1/4	0.186	5.8	–	X	MAG	2x#12AWG+GND	21	115V/1ø	15	–	
EF-38	E	1/4	0.186	2.85	–	X	MAG	2x#12AWG+GND	21	115V/1ø	15	–	
EF-39	E	1/4	0.186	2.85	–	X	MAG	2x#12AWG+GND	21	115V/1ø	15	–	
EF-40	M	3/4	0.55	1.6	–	X	UM	3x#12AWG+GND	21	575V/3ø	15	–	
EF-41	M	3/4	0.55	1.6	–	X	UM	3x#12AWG+GND	21	575V/3ø	15	–	
KEF-1	M	5	3.6	16.7	–	X	MAG	3x#10AWG+GND	21	208V/3ø	35	–	ALL POWER TO EQUIPMENT BELOW THE HOOD MUST BE SHUT DOWN WITH ACTIVATION OF A MICROSWITCH ACTIVATED BY HOOD FIRE SUPPRESSION SYSTEM. REFER TO THE POWER LAYOUT AND PROVIDE CONTACTOR C/W WIRING AS NEEDED.
KEF-2	M	1.5	1.1	6.6	–	X	MAG	3x#12AWG+GND	21	208V/3ø	15	–	ALL POWER TO EQUIPMENT BELOW THE HOOD MUST BE SHUT DOWN WITH ACTIVATION OF A MICROSWITCH ACTIVATED BY HOOD FIRE SUPPRESSION SYSTEM. REFER TO THE POWER LAYOUT AND PROVIDE CONTACTOR C/W WIRING AS NEEDED.
EF-DR1	E	–	0.083	2	X	–	MAG	2x#12AWG+GND	21	115V/1ø	15	–	PROVIDE WIRING AND A CURRENT SWITCH TO ENABLE THE BOOSTER FAN TO OPERATE WHEN THE DRYER IS IN OPERATION.
FFH-1	–	1/20	–	≈1	–	–	–	2x#12AWG+GND	21	115V/1ø	15	–	
FFH-2	–	1/20	–	≈1	–	–	–	2x#12AWG+GND	21	115V/1ø	15	–	
FFH-3	–	1/25	–	≈1	–	–	–	2x#12AWG+GND	21	115V/1ø	15	–	
FFH-4	–	1/20	–	≈1	–	–	–	2x#12AWG+GND	21	115V/1ø	15	–	
FFH-5	–	1/20	–	≈1	–	–	–	2x#12AWG+GND	21	115V/1ø	15	–	
FFH-6	–	1/20	–	≈1	–	–	–	2x#12AWG+GND	21	115V/1ø	15	–	
FFH-7	–	1/20	–	≈1	–	–	–	2x#12AWG+GND	21	115V/1ø	15	–	
FFH-8	–	1/20	–	≈1	–	–	–	2x#12AWG+GND	21	115V/1ø	15	–	
FFH-9	–	1/20	–	≈1	–	–	–	2x#12AWG+GND	21	115V/1ø	15	–	
FFH-10	–	1/20	–	≈1	–	–	–	2x#12AWG+GND	21	115V/1ø	15	–	
FFH-11	–	1/20	–	≈1	–	–	–	2x#12AWG+GND	21	115V/1ø	15	–	
FFH-12	–	1/20	–	≈1	–	–	–	2x#12AWG+GND	21	115V/1ø	15	–	
FFH-13	–	1/6	–	≈1	–	–	–	2x#12AWG+GND	21	115V/1ø	15	–	
FFH-14	–	1/20	–	≈1	–	–	–	2x#12AWG+GND	21	115V/1ø	15	–	
UH-1	E	1/20	–	≈1	X	–	LT	2x#12AWG+GND	21	115V/1ø	15	–	PROVIDE AND INSTALL LINE VOLTAGE THERMOSTAT. COORDINATE THE MOUNTING LOCATION WITH MECHANICAL.
UH-2	E	1/20	–	≈1	X	–	LT	2x#12AWG+GND	21	115V/1ø	15	–	PROVIDE AND INSTALL LINE VOLTAGE THERMOSTAT. COORDINATE THE MOUNTING LOCATION WITH MECHANICAL.
HWP-1	E	1/4	–	5.8	X	–	MAG	2x#12AWG+GND	21	115V/1ø	15	–	
HWP-2	E	1	–	1.7	X	–	MAG	3x#12AWG+GND	21	575V/3ø	15	–	
HWP-3	E	3/4	–	1.3	X	–	MAG	3x#12AWG+GND	21	575V/3ø	15	–	
SP-1	M	1/2	–	9.8	–	–	SUMP PUMP PANEL	2x#12AWG+GND	21	115V/1ø	20	–	PROVIDE A 20A RECEPTACLE FOR SUMP PUMP CONTROL PANEL POWER CONNECTION.
SP-2	M	1/2	–	9.8	–	–	SUMP PUMP PANEL	2x#12AWG+GND	21	115V/1ø	20	–	PROVIDE A 20A RECEPTACLE FOR SUMP PUMP CONTROL PANEL POWER CONNECTION.
KH-1	–	–	–	–	–	–	–	2x#12AWG+GND	21	115V/1ø	15	–	
KH-2	–	–	–	–	–	–	–	2x#12AWG+GND	21	115V/1ø	15	–	
KH-3	–	–	–	–	–	–	–	2x#12AWG+GND	21	115V/1ø	15	–	PROVIDE POWER AND A LIGHT SWITCH FOR HOOD LIGHTING CIRCUIT.
KH-4	–	–	–	–	–	–	–	2x#12AWG+GND	21	115V/1ø	15	–	PROVIDE POWER AND A LIGHT SWITCH FOR HOOD LIGHTING CIRCUIT.
KH-5	–	–	–	–	–	–	–	2x#12AWG+GND	21	115V/1ø	15	–	PROVIDE POWER AND A LIGHT SWITCH FOR HOOD LIGHTING CIRCUIT.
KH-6	–	–	–	–	–	–	–	2x#12AWG+GND	21	115V/1ø	15	–	PROVIDE POWER AND A LIGHT SWITCH FOR HOOD LIGHTING CIRCUIT.
KH-7	–	–	–	1.5	–	–	–	2x#12AWG+GND	21	115V/1ø	15	–	
AHU-1	M	10.5	–	16	X	–	VFD	3x#12AWG+GND	21	575V/3ø	25	X	
AHU-3	M	25	–	35	X	–	VFD	3x#8AWG+GND	27	575V/3ø	50	X	
RTU-1	–	–	–	51.7	–	X	UM	3x#6AWG+GND	35	575V/3ø	60	X	
RTU-2	–	–	–	66.2	–	X	UM	3x#4AWG+GND	35	575V/3ø	80	X	
RTU-5	–	–	–	164	–	X	UM	3x#3/0AWG+GND	63	208V/3ø	200	X	RE-USE THE EXISTING CONDUIT IF IT IS IN GOOD CONDITION, OTHERWISE REPLACE WITH NEW CONDUIT AS NEEDED. PROVIDE NEW WIRING AND OCPD TO SUIT THE NEW UNIT REQUIREMENTS.
RTU-6	–	–	–	86	–	X	UM	3x#3AWG+GND	41	208V/3ø	100	X	RE-USE THE EXISTING CONDUIT IF IT IS IN GOOD CONDITION, OTHERWISE REPLACE WITH NEW CONDUIT AS NEEDED. PROVIDE NEW WIRING AND OCPD TO SUIT THE NEW UNIT REQUIREMENTS.
RTU-7	–	–	–	42	–	X	UM	3x#6AWG+GND	35	208V/3ø	70	X	RE-USE THE EXISTING CONDUIT IF IT IS IN GOOD CONDITION, OTHERWISE REPLACE WITH NEW CONDUIT AS NEEDED. PROVIDE NEW WIRING AND OCPD TO SUIT THE NEW UNIT REQUIREMENTS.
RTU-8	–	–	–	48	–	X	UM	3x#6AWG+GND	35	208V/3ø	80	X	RE-USE THE EXISTING CONDUIT IF IT IS IN GOOD CONDITION, OTHERWISE REPLACE WITH NEW CONDUIT AS NEEDED. PROVIDE NEW WIRING AND OCPD TO SUIT THE NEW UNIT REQUIREMENTS.
RTU-9	–	–	–	35	–	X	UM	3x#8AWG+GND	27	208V/3ø	50	X	RE-USE THE EXISTING CONDUIT IF IT IS IN GOOD CONDITION, OTHERWISE REPLACE WITH NEW CONDUIT AS NEEDED. PROVIDE NEW WIRING AND OCPD TO SUIT THE NEW UNIT REQUIREMENTS.
DOAS-1	–			38.4 (MCA)	–	X	UM	3x#8AWG+GND	27	575V/3ø	45	X	
DOAS-2	–			30 (MCA)	–	X	UM	3x#8AWG+GND	27	575V/3ø	35	X	
DOAS-3	–			25.2 (MCA)	–	X	UM	3x#10AWG+GND	27	575V/3ø	30	X	

NOTES:

1- ALL STARTERS TO BE COMPLETED WITH EXTERNAL OVERLOAD RESET PUSH BUTTONS, HAND/AUTO/OFF SELECTOR SWITCH AND PILOT LIGHT.
2- STARTERS TO BE PROVIDED AND INSTALLED BY ELECTRICAL TRADE UNLESS OTHERWISE NOTED.
3- COORDINATE WITH MECHANICAL & CONTROL CONTRACTOR AND ENSURE THE NEW STARTERS HAVE ALL REQUIRED AUXILIARY CONTACTS.
4- COORDINATE THE STARTER MOUNTING LOCATION WITH MECHANICAL CONTRACTOR.
5- PROVIDE AND INSTALL 5% LINE IMPEDANCE FOR ANY LOOSE VFD 10 HP AND ABOVE.
6- NOT ALL STARTES OR DISCONNECTS SWHON ON THE FLOOR PLANS. ELECTRICAL CONTRACTOR TO INCLUDE COST FOR ALL STARTER AND DISCONNECT SWITCHES AS PER EQUIPMENT WIRING SCHEDULE.

MECHANICAL EQUIPMENT WIRING SCHEDULE

ITEM / DESCRIPTION	LOOSE STARTERS / VFD E= BY ELECTRICAL M= BY MECHANICAL/OTHERS	HP RATING	kW RATING	FULL LOAD (AMPS)	STARTER & DISCONNECT: ISOLATING DEVICE: DISCONNECT	WP DISCONNECT	STARTER (MAG=MAGNETIC, UM=UNIT MOUNTED, MS=MANUAL SWITCH, LS =LIGHT SWITCH)	BRANCH FEEDER: CONDUCTOR SIZE	CONDUIT SIZE	VOLTAGE/PHASE	OCPD SIZE	FIRE ALARM SHUTDOWN	REMARKS
CDU-1	–	–	–	22.5 (MCA)	–	X	UM	3x#10AWG+GND	27	575V/3ø	25	–	
CDU-2	–	–	–	17 (MCA)	–	X	UM	2x#12AWG+GND	27	208V/1ø	25	–	
CDU-3	–	–	–	35 (MCA)	–	X	UM	3x#8AWG+GND	27	575V/3ø	40	–	
CDU-4	–	–	–	24 (MCA)	–	X	UM	3x#10AWG+GND	27	208V/3ø	40	–	
CDU-5	–	–	–	17 (MCA)	–	X	UM	2x#12AWG+GND	27	208V/1ø	25	–	
CDU-6	–	–	–	17 (MCA)	–	X	UM	2x#12AWG+GND	27	208V/1ø	25	–	
CDU-7	–	–	–	50 (MCA)	–	X	UM	3x#6AWG+GND	27	208V/3ø	60	–	
CDU-8A	–	–	–	34 (MCA)	–	X	–	3x8AWG+GND	27	208V/3ø	40	–	TO BE RECONNECTED TO THE EXISTING FEEDER. ALLOW TO EXTEND AS NEEDED.
CDU-8B	–	–	–	45 (MCA)	–	X	–	3x8AWG+GND	27	208V/3ø	50	–	TO BE RECONNECTED TO THE EXISTING FEEDER. ALLOW TO EXTEND AS NEEDED.
AC-1	–	–	–	≈1	–	–	–	3x#14AWG+GND	21	208V/1ø	–	–	TO BE POWERED FROM THE OUTDOOR UNIT C/W DRAIN PUMP CONNECTION. REFER TO THE MANUFACTURE INSTALLATION INSTRUCTION.
AC-2	–	–	–	≈1	–	–	–	3x#14AWG+GND	21	208V/1ø	–	–	TO BE POWERED FROM THE OUTDOOR UNIT C/W DRAIN PUMP CONNECTION. REFER TO THE MANUFACTURE INSTALLATION INSTRUCTION.
AC-3	–	–	–	≈1	–	–	–	3x#14AWG+GND	21	208V/1ø	–	–	TO BE POWERED FROM THE OUTDOOR UNIT C/W DRAIN PUMP CONNECTION. REFER TO THE MANUFACTURE INSTALLATION INSTRUCTION.
AC-4	–	–	–	≈1	–	–	–	3x#14AWG+GND	21	208V/1ø	–	–	TO BE POWERED FROM THE OUTDOOR UNIT C/W DRAIN PUMP CONNECTION. REFER TO THE MANUFACTURE INSTALLATION INSTRUCTION.
AC-5	–	–	–	≈1	–	–	–	3x#14AWG+GND	21	208V/1ø	–	–	TO BE POWERED FROM THE OUTDOOR UNIT C/W DRAIN PUMP CONNECTION. REFER TO THE MANUFACTURE INSTALLATION INSTRUCTION.
AC-6	–	–	–	≈1	–	–	–	3x#14AWG+GND	21	208V/1ø	–	–	EXISTING UNIT. RECONNECT THE WIRING TO INDOOR UNIT AND PROVIDE NEW WIRING FOR DRAIN PUMP.
AC-7	–	–	–	≈1	–	–	–	3x#14AWG+GND	21	208V/1ø	–	–	EXISTING UNIT. RECONNECT THE WIRING TO INDOOR UNIT AND PROVIDE NEW WIRING FOR DRAIN PUMP.
AC-8	–	–	–	≈1	–	–	–	3x#14AWG+GND	21	208V/1ø	–	–	EXISTING UNIT. RECONNECT THE WIRING TO INDOOR UNIT AND PROVIDE NEW WIRING FOR DRAIN PUMP.
AC-9	–	–	–	≈1	–	–	–	3x#14AWG+GND	21	208V/1ø	–	–	EXISTING UNIT. RECONNECT THE WIRING TO INDOOR UNIT AND PROVIDE NEW WIRING FOR DRAIN PUMP.
AC-10	–	–	–	≈1	–	–	–	3x#14AWG+GND	21	208V/1ø	–	–	EXISTING UNIT. RECONNECT THE WIRING TO INDOOR UNIT AND PROVIDE NEW WIRING FOR DRAIN PUMP.
AC-11	–	–	–	≈1	–	–	–	3x#14AWG+GND	21	208V/1ø	–	–	EXISTING UNIT. RECONNECT THE WIRING TO INDOOR UNIT AND PROVIDE NEW WIRING FOR DRAIN PUMP.
AC-12	–	–	–	≈1	–	–	–	3x#14AWG+GND	21	208V/1ø	–	–	EXISTING UNIT. RECONNECT THE WIRING TO INDOOR UNIT AND PROVIDE NEW WIRING FOR DRAIN PUMP.
FC-1	–	–	–	4.16	X	–	–		21	208V/1ø	15	–	
FC-2	–	–	–	2.13	X	–	–		21	208V/1ø	15	–	
FC-3	–	–	–	4.16	X	–	–		21	208V/1ø	15	–	
FC-4	–	–	–	2.88	X	–	–		21	208V/1ø	15	–	
FC-5	–	–	–	2.88	X	–	–		21	208V/1ø	15	–	
ERV-1	–	–	–	–	–	X	UM	3x#10AWG+GND	27	575V/3ø	–	X	
ERV-2	–	–	–	–	–	X	UM	3x#10AWG+GND	27	575V/3ø	–	X	
MAU-1	–	–	–	8.5 (MCA)	–	X	UM	3x#12AWG+GND	27	575V/3ø	15	X	
MAU-2	–	–	–	15 (MCA)	–	X	UM	3x#12AWG+GND	27	208V/3ø	20	X	
DHWT-5	–	–	–	5	X	–	–	2x#12AWG+GND	21	115V/1ø	15	–	
P-6	–	–	–	5	X	–	MAG	2x#12AWG+GND	21	115V/1ø	15	–	

NOTES:

1- ALL STARTERS TO BE COMPLETED WITH EXTERNAL OVERLOAD RESET PUSH BUTTONS, HAND/AUTO/OFF SELECTOR SWITCH AND PILOT LIGHT.
2- STARTERS TO BE PROVIDED AND INSTALLED BY ELECTRICAL TRADE UNLESS OTHERWISE NOTED.
3- COORDINATE WITH MECHANICAL & CONTROL CONTRACTOR AND ENSURE THE NEW STARTERS HAVE ALL REQUIRED AUXILIARY CONTACTS.
4- COORDINATE THE STARTER MOUNTING LOCATION WITH MECHANICAL CONTRACTOR.
5- PROVIDE AND INSTALL 5% LINE IMPEDANCE FOR ANY LOOSE VFD 10 HP AND ABOVE.
6- NOT ALL STARTES OR DISCONNECTS SWHON ON THE FLOOR PLANS. ELECTRICAL CONTRACTOR TO INCLUDE COST FOR ALL STARTER AND DISCONNECT SWITCHES AS PER EQUIPMENT WIRING SCHEDULE.

EMERGENCY LIGHTING SCHEDULE

SYMBOL	MANUFACTURER	CAT#	VOLTS	LAMPS	MOUNTING	REMARKS	ACCEPTABLE MANUFACTURERS
	LUMACELL	LRL-ACDC	24VDC	13W LED	RECESSED	LRL SERIES VANDAL RESISTANT LINEAR REMOTE FIXTURE	STANPRO, LUMACELL, BEGHELLI
	LUMACELL	MQMLD14	24VDC	6W LED	SURFACE	MQM MR16 LED REMOTE HEADS	STANPRO, LUMACELL, BEGHELLI
VR VR	LUMACELL	RSQBDLD14	24VDC	6W LED	SURFACE	Q-BIC RSQB2 SERIES SURFACE MOUNT, REMOTE FIXTURE	STANPRO, LUMACELL, BEGHELLI
	LUMACELL	LS3WU	24VDC	2.5W LED	SURFACE	LS SERIES ALL METAL PICTOGRAM SIGN	STANPRO, LUMACELL, BEGHELLI

NOTE: ENSURE ALL LIGHT FIXTURES AND CONTROL EQUIPMENT ARE COMPATIBLE WITH EACH OTHER FOR A COMPLETE INSTALLATION.

LIGHT FIXTURE SCHEDULE

TYPE	MANUFACTURER	CAT#	VOLTS	LAMPS	COLOR TEMP.	MOUNTING	REMARKS	ACCEPTABLE MANUFACTURERS
K1	LITHONIA LIGHTING	CPX 2X4 6000LM 80CRI 40K SWL MIN10 ZT MVOLT	120V	42W LED	4000K	RECESSED		PHILIPS LIGHTING COOPER LIGHTING
K2	LITHONIA LIGHTING	CPX 1X4 4000LM 80CRI 40K SWL MIN10 ZT MVOLT	120V	36W LED	4000K	RECESSED		PHILIPS LIGHTING COOPER LIGHTING
L1	LITHONIA LIGHTING	2BLT4 40L ADSM GZ1 LP840	120V	31W LED	4000K	RECESSED		PHILIPS LIGHTING COOPER LIGHTING
L1B	LITHONIA LIGHTING	BLT4 30L ADSM GZ1 LP840	120V	23W LED	4000K	RECESSED		PHILIPS LIGHTING COOPER LIGHTING
L2	LITHONIA LIGHTING	ZL1D L48 5000LM FST MVOLT 40K 80CRI WH	120V	41W LED	4000K	SUSPENDED		PHILIPS LIGHTING COOPER LIGHTING
L3	LITHONIA LIGHTING	CPX 1X4 AL07 80CRI 40K SWW7 SWL MVOLT	120V	33W LED	4000K	RECESSED		PHILIPS LIGHTING COOPER LIGHTING
L4	LITHONIA LIGHTING	LDN4 40/15 L04 AR LD MVOLT GZ1	120V	18W LED	4000K	RECESSED		PHILIPS LIGHTING COOPER LIGHTING
L5	LITHONIA LIGHTING	CPX 1X4 6000LM 80CRI 40K SWL MIN10 ZT MVOLT	120V	56W LED	4000K	SURFACE		PHILIPS LIGHTING COOPER LIGHTING
L6	LITHONIA LIGHTING	2BLT4 48L ADSM GZ1 LP840	120V	39W LED	4000K	RECESSED		PHILIPS LIGHTING COOPER LIGHTING
L7	LITHONIA LIGHTING	HC2805 L4L170 40K 120 UL4L78 STM 216IN STC FDC FS DS BKT	120V	264W LED	4000K	SUSPENDED		PHILIPS LIGHTING COOPER LIGHTING
L8	LITHONIA LIGHTING	S4PD LLP 6FT MSL6 80CRI 40K 800LMF SCT MIN1 FLL MVOLT WHT ZT	120V	38W LED	4000K	SUSPENDED	FINISH COLOR AND MOUNTING HEIGHT TO BE CONFIRMED BY THE ARCHITECT DURING THE SHOP DRAWING REVIEW.FIXTURES TO BE INSTALLED AT A SLOPED ANGLE MATCHING THE ACOUSTIC PANELS.	PHILIPS LIGHTING COOPER LIGHTING
L9	LITHONIA LIGHTING	LDN6 40/10 L06 AR LSS MVOLT GZ10	120V	11W LED	4000K	RECESSED		PHILIPS LIGHTING COOPER LIGHTING
L9B	LITHONIA LIGHTING	LDN6 40/10 LW6 AR LSS MVOLT GZ10	120V	11W LED	4000K	RECESSED		PHILIPS LIGHTING COOPER LIGHTING
L9C	LITHONIA LIGHTING	LDN6 35/10 L06 AR LSS MVOLT GZ10	120V	11W LED	3500K	RECESSED		PHILIPS LIGHTING COOPER LIGHTING

NOTE: ENSURE ALL LIGHT FIXTURES AND CONTROL EQUIPMENT ARE COMPATIBLE WITH EACH OTHER FOR A COMPLETE INSTALLATION.

Halton District School Board

CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND THE ENGINEER SHALL BE INFORMED OF ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN ON THE DRAWINGS. DO NOT SCALE DRAWINGS. SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL BEFORE PROCEEDING WITH FABRICATION. THIS DRAWING IS THE PROPERTY OF SAB ENGINEERING INC. AND SHALL NOT BE REPRODUCED WITHOUT THEIR PERMISSION AND UNLESS THE REPRODUCTION CARRIES THEIR NAME. ALL INFORMATION SHOWN ON THIS DRAWING IS FOR USE ON THE SPECIFIED PROJECT ONLY AND SHALL NOT BE USED OTHERWISE WITHOUT WRITTEN PERMISSION OF SAB ENGINEERING INC.

SAB ENGINEERING Inc.
588 EDWARD AVE., UNIT 25, RICHMOND HILL, ONT., L4C 9Y6
TEL. (905)-787 8885 FAX (905)-787 8771

No.	REVISIONS	date
03	ISSUED FOR ADDENDUM#3	MAY/06/26
02	ISSUED FOR TENDER	APR/15/26
01	ISSUED FOR PERMIT	APR/01/26

PROJECT NORTH · TRUE NORTH · scale 1:100

Consultant: LICENSED PROFESSIONAL ENGINEER K. NAJAFZADEH 100510929 MAY 06, 2026 PROVINCE OF ONTARIO

drawn: K.N.
last worked on:
by:
checked: K.N.
print date:

BJC architects + assocs. inc.

client
HALTON DISTRICT SCHOOL BOARD
2050 GUELPH LINE
BURLINGTON ONTARIO

project
MILTON DISTRICT HIGH SCHOOL
396 WILLIAMS AVE.
MILTON ONTARIO

drawing title
LEGEND, WIRING & LIGHTING SCHEDULES

reference

project no. 2024-21
client reference number

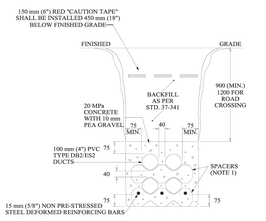
sheet no.
E-100 00

METRIC
LINEAR DIMENSIONS SHOWN IN MILLIMETRES

Back to Previous View

37-343
R4 (JUNE 2013)

1/2" MULE TAPE FOR CABLE PULL IN DUCT



NOTE:
1. REFER TO STD. 37-341 FOR CONCRETE ENCASED DUCT BANK REQUIREMENTS.

REV#	DESCRIPTION	DATE	APPD
4	ADDED CAUTION TAPE	June 2013	CB
3	ORIGINAL DRAWING	June 2005	

MILTON HYDRO

TYPICAL ARRANGEMENT FOR DUCTS ENCASED IN CONCRETE FOR 1, 2, 3, 4 DUCTS

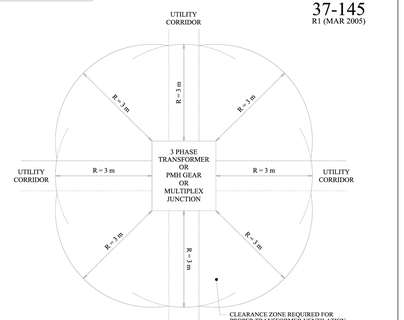
DRAWN BY:		DWG NO. 37-343
CHECKED BY:		
APPROVED BY:	AESI, WK	SCALE: NTS
APPROVAL DATE:	June 27, 2005	SHEET 1 of 1 / REV. 4

1 – PRIMARY DUCT BANK
NTS

METRIC
LINEAR DIMENSIONS SHOWN IN MILLIMETRES

Back to Previous View

37-145
R1 (MAR 2005)



NOTES:
1. ANY AND ALL OBJECTS WITHIN THE OBSTRUCTION FREE AREA, ARE SUBJECT TO REMOVAL WITHOUT ANY PRIOR NOTICE SHOULD OPERATIONAL OR EMERGENCY CONDITIONS EXIST.
2. THE DISTRIBUTOR SHALL NOT BE HELD RESPONSIBLE FOR ANY COSTS ASSOCIATED WITH THE REMOVAL OR RESULTING DAMAGE TO ANY OBJECTS WITHIN THE OBSTRUCTION FREE AREA. (THE DEVELOPER/OWNER ASSUMES ALL RESPONSIBILITY FOR ENCROACHING WITHIN THE OBSTRUCTION FREE AREA.)

OBSTRUCTION FREE AREA
THREE PHASE TRANSFORMERS AND SWITCHING CUBICLES
(ABOVE GROUND)
2.4/4.16 kV TO 16/27.6 kV

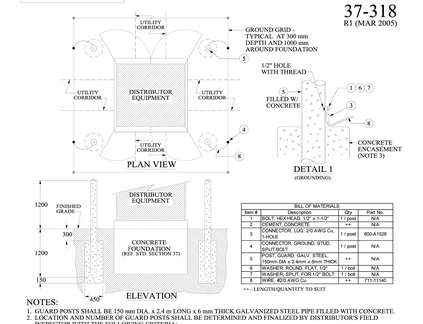
Milton Hydro Distribution Inc.

2 – PAD–MOUNT TRANSFORMER CLEARANCE
NTS

METRIC
LINEAR DIMENSIONS SHOWN IN MILLIMETRES

Back to Previous View

37-318
R1 (MAR 2005)



Item #	Description	Qty	Part No.
1	BOLT, HEXHEAD, 1/2" X 1-1/2"	1 / post	N/A
2	CEMENT, CONCRETE	**	N/A
3	CONNECTOR, LUG, 2/0 AWG CU, 1-HOLE	1 / post	800-A1528
4	CONNECTOR, GROUND, STUD, SPLIT BOLT	1 / post	N/A
5	POST, GUARD, GALV. STEEL, 150mm DIA x 2.4mm x 6mm THICK	**	N/A
6	WASHER, ROUND, FLAT, 1/2"	1 / bolt	N/A
7	WASHER, SPLIT, FOR 1/2" BOLT	1 / bolt	N/A
8	WIRE, #2/0 AWG Cu	**	711-11540

** - LENGTH/QUANTITY TO SUIT

NOTES:
1. GUARD POSTS SHALL BE 150 mm DIA. x 2.4 m LONG x 6 mm THICK GALVANIZED STEEL PIPE FILLED WITH CONCRETE.
2. LOCATION AND NUMBER OF GUARD POSTS SHALL BE DETERMINED AND FINALIZED BY DISTRIBUTOR'S FIELD INSPECTOR WITH THE FOLLOWING CRITERIA:
   2.1. SHALL ALLOW EQUIPMENT DOORS (INCLUDING SUB-COMPARTMENT'S DOORS) TO BE OPENED THROUGH THEIR FULL RANGE.
   2.2. SHALL ALLOW DISTRIBUTOR PERSONNEL UNIMPEDED ACCESS TO THE EQUIPMENT AND COMPARTMENTS FOR NORMAL OPERATION OF THE EQUIPMENT.
   2.3. MINIMUM CLEARANCE BETWEEN THE GUARD POST'S CONCRETE ENCASEMENT AND THE UTILITY CORRIDOR.
   2.4. 100 mm MINIMUM CLEARANCE BETWEEN THE GUARD POST'S CONCRETE ENCASEMENT AND THE GROUND GRID.
3. THE GUARD POSTS SHALL BE CONCRETE ENCASED IN 20 MPa CONCRETE WITH 10 mm PEA GRAVEL AGGREGATE.
4. WHERE GUARD POSTS ARE INSTALLED IN BACKFILL OR DISTURBED EARTH, ENSURE BACKFILL MATERIAL IS THOROUGHLY COMPACTED.
5. GUARD POSTS SHALL BE PAINTED WITH "SAFETY-YELLOW" (CITY'S STANDARD). FOR PROPER ADHESION OF PAINT, GUARD POSTS MUST BE CLEANED (FREE FROM DIRT, GREASE/OIL AND EXHAUST FUMES) AND PRIMED PRIOR TO PAINTING. PRETREATMENT PRIMER MUST BE COMPATIBLE WITH GALVANIZED COATING, SUCH AS MODIFIED ACRYLIC WATER-BORNE PRIMERS.
   FOR HIGH ADHESION OF PAINT, BRUSH OR SWEEP BLAST THE GALVANIZED POSTS IMMEDIATELY PRIOR TO PAINTING. INCORRECT TECHNIQUE OF BLASTING MAY RESULT IN DAMAGES TO THE GALVANIZED COATING. THEREFORE IT IS HIGHLY RECOMMENDED THAT A PERSON WITH EXPERTISE AND ABILITY TO FOLLOW STRICT PRETREATMENT REQUIREMENTS AND PROCEDURES BE USED.

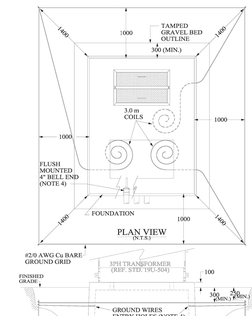
TYPICAL GUARD POST INSTALLATION

Milton Hydro Distribution Inc.

3 – GUARD POST INSTALLATION DETAIL
NTS

METRIC
LINEAR DIMENSIONS SHOWN IN MILLIMETRES

37-362
R1 (MAR 2005)



Part No.	Qty	Description
240-12085	4	ROD, GROUND, 10 ' X3/4"
711-11140	+	WIRE, #2/0 AWG CU
+ – LENGTH/QUANTITY TO SUIT		

NOTES:
1. THE FOUNDATION SHALL BE OF A TYPE APPROVED BY THE DISTRIBUTOR.
2. THE FOUNDATION SHALL BE ORIENTED AS PER CONSTRUCTION DRAWING WITH TOP SURFACE HAVING A MAXIMUM 1% SLOPE.
3. GRAVEL BEDDING, FOUNDATION AND GROUND GRID INSTALLATION ARE ALL SUBJECT TO DISTRIBUTOR INSPECTION.
4. DUCTS AND GROUND WIRE ENTRY HOLES SEALED WITH FOAM.
5. UNUSED HOLES SHALL BE LEFT ALONE WITH PLASTIC SEAL INTACT.
6. PLACE BACKFILL IN THOROUGHLY COMPACTED LAYERS.
7. REFER TO STD. 41U-110, DETAIL 4 FOR GROUND ROD INSTALLATION.

GROUND GRID
FOR THREE PHASE PAD-MOUNTED TRANSFORMER
2.4/4.16 kV TO 16/27.6 kV

Milton Hydro Distribution Inc.

4 – GROUND GRID DETAIL
NTS

METRIC
LINEAR DIMENSIONS SHOWN IN MILLIMETRES

MHST-7
(FEB 2025)

NOTES:
1. ALL INSTALLATIONS TO BE INSPECTED BY MILTON HYDRO PRIOR TO BACK FILLING & CONCRETE ENCASEMENT. INSPECTION APPOINTMENTS MUST BE BOOKED 48 HOURS IN ADVANCE OF THE REQUIRED TIME. BACK FILL WITH NATIVE FILL CLEAR OF LARGE STONE & DEBRIS. MILTON HYDRO (905-876-4611)
2. CONTRACTOR TO INSTALL FLARED BELL ENDS ON DUCTS & FLUSHED WITH CONCRETE FOUNDATION.
3. CONTRACTOR TO STUB DUCTS AT POLE. USE LONG SWEEP 90-DEGREE BENDS (MIN. 60" R-RADIUS)
4. PRIMARY & SECONDARY CABLE ENTER/EXIT ANY SIDE OF BASE.
5. PAD TO BE INSTALLED WITHIN 5m OF DRIVEWAY.
6. TRANSFORMER PAD TO ONLY BE ACTON PRECAST TYPE LPC108-NO BASE.
7. THE TRANSFORMER PAD SHALL BE SUITABLE TO SUPPORT A MAXIMUM WEIGHT OF 7000kg.
8. CONCRETE PAD TO BE INSTALLED SUCH THAT TRANSFORMER OPENING IS OPPOSITE OF TRAFFIC.
9. CONNECT GROUND TAILS TO TRANSFORMER NEUTRAL BAR & ENTRY HATCH PER STD. 190-504

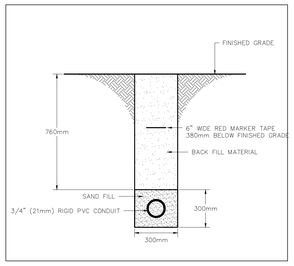
REV#	DESCRIPTION	DATE	APPD
3	UPDATED VAULT	FEB 2025	CH
2	CLARIFIED GROUNDING	MAY 2018	CR
1	REMOVED 50mm DUCT	NOV 2014	CR

MILTON HYDRO

TRANSFORMER PAD INSTALLATION COMMERCIAL

DRAWN BY:	JS	DWG NO. MHST-7
CHECKED BY:	CH	
APPROVED BY:	CH	SCALE: NTS
APPROVAL DATE:		SHEET 1 of 1 / REV.

5 – TRANSFORMER INSTALLATION DETAIL
NTS



9 – TRENCH DETAIL
NTS

METRIC
LINEAR DIMENSIONS SHOWN IN MILLIMETRES

37-341
R3 (MAR 2005)

1. DESIGN CONSIDERATIONS
   1.1. BENDS AND TURNS IN A DUCT RUN SHALL BE ACCOMPLISHED BY A GRADUAL SWEEP. ALL 90 DEGREE CHANGES IN DIRECTION SHALL BE MADE OF 1.5 m (60") RADIUS ELBOW AND BE LIMITED TO TWO PER RUN.
   1.2. DUCT BANKS SHALL BE BURIED WITH A MINIMUM COVER OF 900 mm, WITH THE EXCEPTION OF ROAD CROSSINGS WHICH SHALL BE BURIED WITH A MINIMUM COVER OF 1200 mm.
   TRENCH RESTORATION SHALL BE MADE UP OF CLEAN BACKFILL ON DUCTS INSTALLED UNDER LAWNS AND PARKWAYS. DUCT BANKS ALONG BOULEVARDS OR ACROSS ROADS SHALL BE BACKFILLED WITH CONCRETE. TRENCH RESTORATION TO CONFORM WITH THE MUNICIPAL OR REGIONAL AUTHORITY, AS REQUIRED.
   1.3. CUSTOMER'S DUCT BANK SHALL HAVE A MINIMUM SLOPE OF 1% AWAY FROM THE BUILDING. CONSULT DISTRIBUTOR'S INSPECTOR WHERE THIS REQUIREMENT CANNOT BE MET (ie. FRENCH DRAIN REQUIRED).
   1.4. THE AREA WITHIN TWO METRES AT EACH END OF A DUCT BANK SHALL BE FREE OF ANY FOREIGN OBJECTS SUCH AS CABLES OR PIPES, FOR BACKHOE DIGGING.
   1.5. DUCT BANK SHALL BE TERMINATED IN A LANDSCAPED AREA AT THE LOCATION GIVEN BY THE DISTRIBUTOR.
   1.6. CONFIGURATIONS NOT COVERED BY STANDARDS 37-343 TO 37-348 SHALL BE ARRANGED IN A SIMILAR MANNER SUBJECT TO DISTRIBUTOR'S APPROVAL.
2. DUCT BANK CONSTRUCTION
   2.1. THE DUCT SHALL BE 100 mm (4") DIAMETER, PVC TYPE DB2/ES2 (SOLID WALL ONLY) C/W BELL END AND BE APPROVED AS PER CSA STANDARD C22.2 No. 211.1 (LATEST REVISION) AND THE DISTRIBUTOR.
   2.2. ALL FITTINGS AND BENDS SHALL BE PVC TYPE DB2/ES2. APPROVED SOLVENT CEMENT SHALL BE USED TO JOIN PVC DUCTS, FITTINGS AND BENDS AT 2 MINIMUM 30 MINUTES PRIOR TO POURING CONCRETE.
   2.3. ALL DUCTS AT THE FACE OF THE DUCT BANK SHALL BE ORIENTED AND TERMINATED WITH EITHER BELL ENDS SUPPORTING CABLES OR PLUGS FOR SPARE DUCTS AS PER DISTRIBUTOR STANDARD 37-346.
   2.4. DUCTS SHALL BE SUPPORTED WITH ENERSOURCE HYDRO MISSISSAUGA APPROVED SPACERS EVERY 1.5 m (5 ft) AND BE ANCHORED SO AS NOT TO FLOAT DURING CONCRETE POURING.
   2.5. ALL DUCT BANKS SHALL BE REINFORCED WITH NON PRE-STRESSED 15 mm (5/8") DEFORMED STEEL REINFORCING BARS - GRADE 400 AND CONFORMED WITH CSA G30.12 (LATEST REVISION). STEEL REINFORCING BARS SHALL BE INSTALLED CONTINUOUSLY, MINIMUM 500 mm OVERLAP AND TIED, AND BE LOCATED AT THE BOTTOM OF THE DUCT BANK AS PER DISTRIBUTOR STANDARD 37-343 TO 37-348.

CONCRETE ENCASED DUCT BANK REQUIREMENTS

Milton Hydro Distribution Inc.

METRIC
LINEAR DIMENSIONS SHOWN IN MILLIMETRES

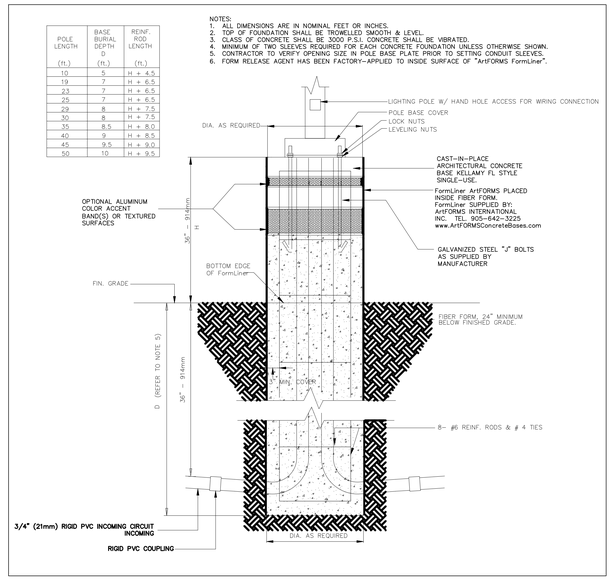
37-341
R3 (MAR 2005)

2. DUCT BANK CONSTRUCTION (CONT'D)
   2.6. STEEL REINFORCING BARS SHALL BE EXTENDED BEYOND THE DUCT BANK FOR FUTURE DUCT BANK EXTENSION. REINFORCING BARS SHALL BE PASSED CONTINUOUSLY FROM ONE DUCT BANK TO THE OTHER.
   2.7. DUCTS SHALL BE ENCASED IN 20MPa CONCRETE WITH 10 mm PEA GRAVEL AGGREGATE. SLUMP MUST NOT EXCEED 100 mm (4") UNDER STANDARD SLUMP TEST. EARTH UNDER DUCT BANK SHALL BE WETTED AND TAMPED AS REQUIRED PRIOR TO DUCT BANK INSTALLATION TO ELIMINATE SETTLING OF FINISHED DUCT BANK.
   2.8. ALL DUCTS SHALL BE MANDRELLED AND BE CLEANED AFTER DUCT BANK INSTALLATION.
   2.9. ALL DUCTS SHALL BE EQUIPPED WITH #5 mm (3/8") DIAMETER POLYPROPYLENE ROPE. ROPE SHALL BE LEFT IN DUCT AFTER TESTING AND APPROVED DUCT PLUG IMMEDIATELY AFTER DUCT BANK INSTALLATION.
   2.10. END OF DUCT BANK AND ROAD CROSSING SHALL BE MARKED WITH AN ELECTRONIC MARKER AS PER DISTRIBUTOR STANDARD 37-348.
3. CUSTOMER OBLIGATIONS
   3.1. CUSTOMER'S DUCT BANK INSTALLATION SHALL BE SUBJECTED TO DISTRIBUTOR'S INSPECTION. THE DUCT BANK SHALL NOT BE BACKFILLED UNTIL THE DUCTS, WALL MATERIAL, OR WILL NOT BE PASSED. CUSTOMER SHALL CONTACT DISTRIBUTOR INSPECTION DEPARTMENT TO ARRANGE FOR INSPECTION 48 HOURS IN ADVANCE OF POURING CONCRETE.
   3.2. THE CUSTOMER SHALL FOLLOW DIRECTIONS GIVEN BY THE DISTRIBUTOR'S INSPECTOR FOR ANY SITUATION NOT COVERED IN THIS SPECIFICATION.
   3.3. DUCTS SHALL BE PROBED PRIOR TO CABLE INSTALLATION. CABLE SHALL NOT BE INSTALLED IN DUCT WHICH DOES NOT ALLOW PASSAGE OF A TEST MANDREL SIZED TO 95 % OF THE DIAMETER OF THE PVC TYPE DB2/ES2 DUCT.
   3.4. LANDSCAPING, PAVING AND CURBS SHALL NOT BE COMPLETED UNTIL DISTRIBUTOR'S CABLE INSTALLATION IS COMPLETE. OTHERWISE, ALL RESTORATION SHALL BE DONE BY THE CUSTOMER AT THEIR OWN EXPENSE.

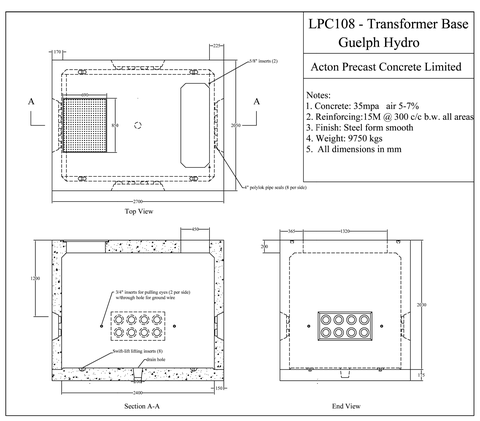
CONCRETE ENCASED DUCT BANK REQUIREMENTS

Milton Hydro Distribution Inc.

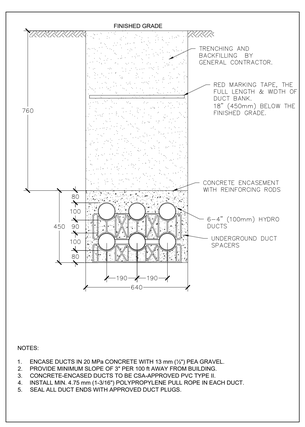
6 – CONSTRUCTION NOTES
NTS



10 – LIGHTING FOUNDATION DETAIL – PARKING LOT
NTS



7 – TRANSFORMER FOUNDATION
NTS



8 – SECONDARY DUCT BANK DETAIL
NTS

NOTES:
1. PHOTOCELL SENSOR (LMPO–200) C/W WATERTIGHT JBOX AND WIRING.
2. ANALOG TO DIGITAL INTERFACE (LMIN–104).
3. WIRED NETWORK BRIDGE FOR CONNECTION TO BAS THROUGH BACNET MS/TP. (LMBC–300 FOR FUTURE USE – N.I.C)
4. DIGITAL LIGHTING MANAGEMENT LOAD CONTROLLER (LMRC– 211)
5. LIGHTING CONTACTOR, TO BE SIZED AS PER LIGHTING CIRCUIT QUANTITY. TO BE EQUIPED WITH H.O.A SELECTOR AND PILOT LIGHTS.

11 – LIGHTING CONTROL – WIRING DIAGRAM
NTS

Halton District School Board

CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND THE ENGINEER SHALL BE INFORMED OF ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN ON THE DRAWINGS. DO NOT SCALE DRAWINGS. SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL BEFORE PROCEEDING WITH FABRICATION. THIS DRAWING IS THE PROPERTY OF SAB ENGINEERING INC. AND SHALL NOT BE REPRODUCED WITHOUT THEIR PERMISSION AND UNLESS THE REPRODUCTION CARRIES THEIR NAME. ALL INFORMATION SHOWN ON THIS DRAWING IS FOR USE ON THE SPECIFIED PROJECT ONLY AND SHALL NOT BE USED OTHERWISE WITHOUT WRITTEN PERMISSION OF SAB ENGINEERING INC.

SAB ENGINEERING Inc.
588 EDWARD AVE., UNIT 25, RICHMOND HILL, ONT., L4C 9Y6
TEL. (905)-787 8885 FAX (905)-787 8771

No.	REVISIONS	date
03	ISSUED FOR ADDENDUM#3	MAY/06/26
02	ISSUED FOR TENDER	APR/15/26
01	ISSUED FOR PERMIT	APR/01/26

PROJECT NORTH
TRUE NORTH
scale

consultant
LICENCED PROFESSIONAL ENGINEER K. NAJAFZADEH 100510929 MAY 06, 2026 PROVINCE OF ONTARIO
drawn: K.N.
last worked on: by
checked: K.N.
print date:

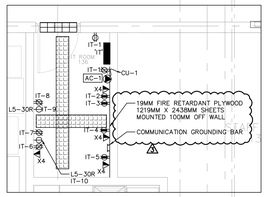
BJC architects + assocs. inc.

client
HALTON DISTRICT SCHOOL BOARD
2050 GUELPH LINE
BURLINGTON ONTARIO

project
MILTON DISTRICT HIGH SCHOOL
396 WILLIAMS AVE.
MILTON ONTARIO

drawing title
ELECTRICAL SITE PLAN DETAILS

reference
project no. 2024-21
client reference number
sheet no. E - 102 00



IT ROOM 136 – POWER & SYSTEMS – NEW WORK

SCALE: 1:50

GENERAL WIRING NOTES:

1. ALL CONDUCTORS, TRANSFORMERS, AND PANELBOARDS SHALL BE COPPER UNLESS OTHERWISE NOTED.
2. MINIMUM WIRING SIZE FOR 120 V AND HIGHER VOLTAGE CIRCUITS SHALL BE NO. 12 AWG COPPER UNLESS OTHERWISE NOTED.
3. FOR MECHANICAL EQUIPMENT WIRING REQUIREMENTS, REFER TO THE WIRING SCHEDULE ON DRAWING E–100.
4. UNLESS OTHERWISE NOTED, BRANCH CIRCUIT WIRING SHALL BE SIZED IN ACCORDANCE WITH SECTION 14 OF THE ONTARIO ELECTRICAL SAFETY CODE (OESC). MINIMUM CONDUCTOR SIZES SHALL BE AS FOLLOWS, BASED ON THE CIRCUIT OVERCURRENT PROTECTION DEVICE (OCPD) RATING:

OCPD RATING	MINIMUM CONDUCTOR SIZE
15 A	#12 AWG CU
20 A	#12 AWG CU
25 A	#10 AWG CU
30 A	#10 AWG CU
35 A	#8 AWG CU
40 A	#8 AWG CU
50 A	#6 AWG CU

5. COORDINATE EXACT MOUNTING LOCATIONS WITH OTHER TRADES PRIOR TO ROUGH–IN.
6. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS AND APPLICABLE CODE REQUIREMENTS.
7. MAINTAIN ALL REQUIRED WORKING CLEARANCES AROUND ELECTRICAL EQUIPMENT IN ACCORDANCE WITH OESC REQUIREMENTS.
8. ALL WIRING SHALL BE INSTALLED IN CONDUIT UNLESS OTHERWISE NOTED.

PROVIDE CABLE MANAGEMENT SYSTEM FOR PORTABLE REGISTER

DISPLAY CABINET POWER
PROVIDE LOAD CONTROLLER & ISOLATION SWITCH ABOVE THE T–BAR.
TO BE CONTROLLED BY BAS.

3X21mm PVC+1X27mm SPARE UNDER FLOOR FOR 2XPOWER ,1XDATA

COORDINATE WITH ELEVATOR CONTRACTOR AND PROVIDE AL POWER, DATA & FA CONNECTIONS, & DISTRIBUTION EQUIPMENT

60A ELEV. FUSED DISC. F.E. PANEL 'DP–1'

ELEV. CAB LIGHT

ADDITION – FIRST FLOOR – POWER & SYSTEMS – NEW WORK

SCALE: 1:100

Halton District School Board

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SAB ENGINEERING Inc.
688 EDWARD AVE., UNIT 25, RICHMOND HILL, ONT., L4C 9Y6
TEL. (905)-787 8885 FAX (905)-787 8771

1st FLOOR
KEY PLAN

no.	revisions	date
03	ISSUED FOR ADDENDUM#3	MAY/06/26
02	ISSUED FOR TENDER	APR/15/26
01	ISSUED FOR PERMIT	APR/01/26

PROJECT NORTH

TRUE NORTH

scale 1:100

consultant

LICENSED PROFESSIONAL ENGINEER
K. NAJAFZADEH
100510929
MAY 06, 2026
PROVINCE OF ONTARIO

drawn	K.N.
last worked on	by
checked	K.N.
print date	

BJC architects + assocs. inc.

client
HALTON DISTRICT SCHOOL BOARD
2050 GUELPH LINE
BURLINGTON ONTARIO

project
MILTON DISTRICT HIGH SCHOOL
396 WILLIAMS AVE.
MILTON ONTARIO

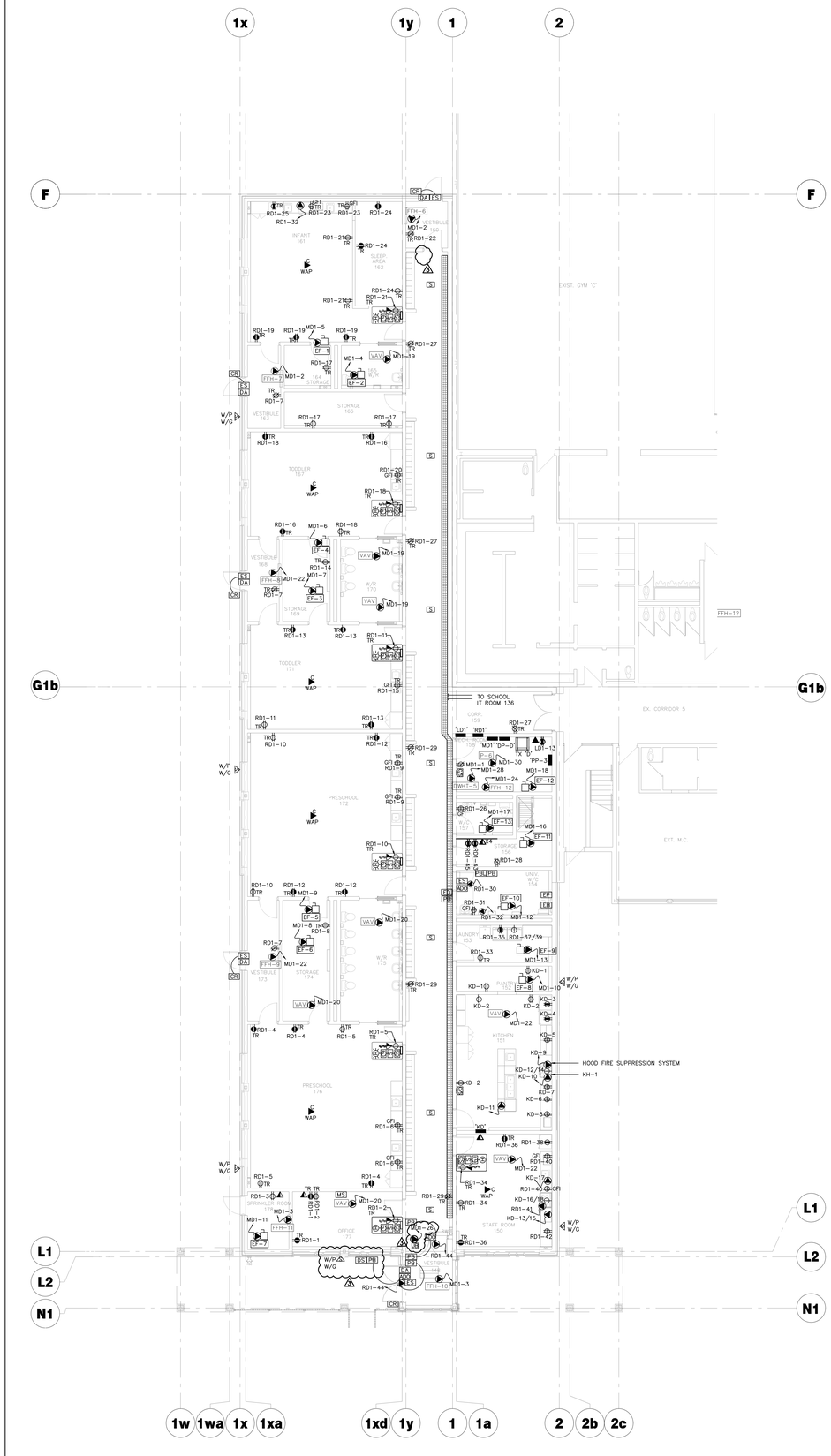
drawing title
ADDITION
FIRST FLOOR
POWER & SYSTEMS
NEW WORK

reference

project no. 2024-21

client reference number

sheet no. E - 300 00



DAYCARE –FIRST FLOOR – POWER & SYSTEMS – NEW WORK
SCALE: 1:100

DAYCARE – ROOF – POWER & SYSTEMS – NEW WORK
SCALE: 1:100

GENERAL WIRING NOTES:

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40 A	#8 AWG CU
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Halton District School Board

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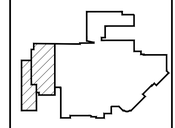

1st FLOOR
KEY PLAN

No.	REVISIONS	date
03	ISSUED FOR ADDENDUM#3	MAY/06/26
02	ISSUED FOR TENDER	APR/15/26
01	ISSUED FOR PERMIT	APR/01/26

PROJECT NORTH
TRUE NORTH
scale: 1:100

consultant:
LICENSED PROFESSIONAL ENGINEER
K. NAJAFZADEH
100510929
MAY 06, 2026
PROVINCE OF ONTARIO

drawn	K.N.
last worked on	by
checked	K.N.
print date	

BJC architects + assocs. inc.

client
HALTON DISTRICT SCHOOL BOARD
2050 GUELPH LINE
BURLINGTON ONTARIO

project
MILTON DISTRICT HIGH SCHOOL
396 WILLIAMS AVE.
MILTON ONTARIO

drawing title
DAYCARE
FIRST FLOOR, ROOF
POWER & SYSTEMS
NEW WORK

reference

project no. 2024-21
client reference number

sheet no. E-301 00

ADDITION – SECOND FLOOR – POWER & SYSTEMS – NEW WORK
SCALE: 1:100

Halton District School Board

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588 EDWARD AVE., UNIT 25, RICHMOND HILL, ONT., L4C 9Y6
TEL. (905)-787 8885 FAX (905)-787 8771

2nd FLOOR
KEY PLAN

No.	REVISIONS	date
03	ISSUED FOR ADDENDUM3	MAY/06/26
02	ISSUED FOR TENDER	APR/15/26
01	ISSUED FOR PERMIT	APR/01/26

PROJECT NORTH
TRUE NORTH
scale 1:100

consultant:
LICENSED PROFESSIONAL ENGINEER
K. NAJAFZADEH
100519929
MAY 06, 2026
PROVINCE OF ONTARIO

drawn: K.N.
last worked on: by
checked: K.N.
print date

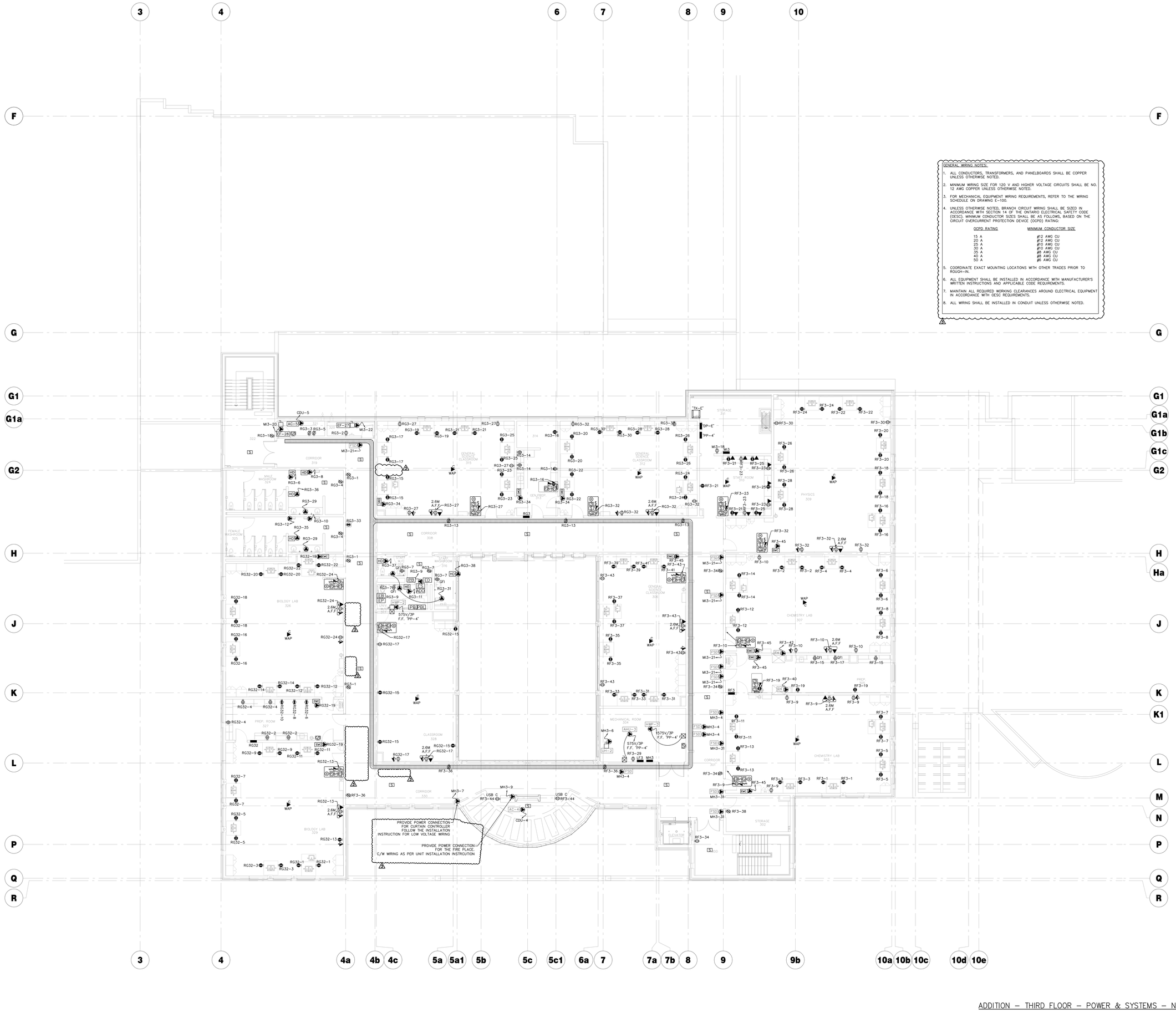
BJC architects + assocs. inc.

client
HALTON DISTRICT SCHOOL BOARD
2050 GUELPH LINE
BURLINGTON ONTARIO

project
MILTON DISTRICT HIGH SCHOOL
396 WILLIAMS AVE.
MILTON ONTARIO

drawing title
ADDITION
SECOND FLOOR
POWER & SYSTEMS
NEW WORK

reference
project no. 2024-21
client reference number
sheet no. E-302 00



ADDITION – THIRD FLOOR – POWER & SYSTEMS – NEW WORK

SCALE: 1:100

GENERAL WIRING NOTES:

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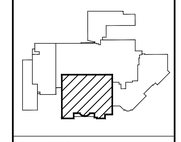

3rd FLOOR
KEY PLAN

No.	REVISIONS	date
03	ISSUED FOR ADDENDUM#3	MAY/06/26
02	ISSUED FOR TENDER	APR/15/26
01	ISSUED FOR PERMIT	APR/01/26

PROJECT NORTH

TRUE NORTH

scale 1:100

Consultant

LICENCED PROFESSIONAL ENGINEER
K. NAJAFZADEH
100510929
MAY 06, 2026
PROVINCE OF ONTARIO

drawn	K.N.
last worked on	
by	
checked	K.N.
print date	

BJC architects + assocs. inc.

client
HALTON DISTRICT SCHOOL BOARD
2050 QUELPH LINE
BURLINGTON ONTARIO

project
MILTON DISTRICT HIGH SCHOOL
396 WILLIAMS AVE.
MILTON ONTARIO

drawing title
ADDITION
THIRD FLOOR
POWER & SYSTEMS
NEW WORK

reference

project no. 2024-21

client reference number

sheet no. E-303 00

EMERGENCY BATTERY UNIT CONNECTED LOAD WATTAGE TO BE SIZED FOR 1HR BACKUP	
BATTERY UNIT	CONNECTED LOAD (W)
E1	70W
E2	82W
E3	94W
E4	106W
E5	44W
E6	92W
E7	70W
E8	72W

SEE DWG. E403 FOR LIGHTING IN THIS AREA

ADDITION – FIRST FLOOR – LIGHTING – NEW WORK
SCALE: 1:100

Halton District School Board

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TEL. (905)-787 8885 FAX (905)-787 8771

1st FLOOR
KEY PLAN

no.	revisions	date
03	ISSUED FOR ADDENDUM#3	MAY/06/26
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01	ISSUED FOR PERMIT	APR/01/26

PROJECT NORTH | TRUE NORTH | scale 1:100

consultant
LICENSED PROFESSIONAL ENGINEER K. NAJAFZADEH 100510929 MAY 06, 2026 PROVINCE OF ONTARIO

drawn	K.N.
last worked on	
by	
checked	K.N.
print date	

BJC architects + assocs. inc.

client
HALTON DISTRICT SCHOOL BOARD
2050 GUELPH LINE
BURLINGTON ONTARIO

project
MILTON DISTRICT HIGH SCHOOL
396 WILLIAMS AVE.
MILTON ONTARIO

drawing title
ADDITION
FIRST FLOOR
LIGHTING
NEW WORK

reference

project no. 2024-21 | client reference number

sheet no. E - 400 00

EMERGENCY BATTERY UNIT CONNECTED LOAD WATTAGE TO BE SIZED FOR 1HR BACKUP	
BATTERY UNIT	CONNECTED LOAD (W)
E13	172W
E14	154W

RE-USE EXISTING LIGHTING CIRCUIT, MODIFY & EXTEND AS NEEDED

ADDITION – SECOND FLOOR – LIGHTING – NEW WORK

SCALE: 1:100

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588 EDWARD AVE., UNIT 25, RICHMOND HILL, ONT., L4C 9Y6
TEL. (905)-787 8885 FAX (905)-787 8771

2nd FLOOR
KEY PLAN

No.	REVISIONS	date
03	ISSUED FOR ADDENDUM3	MAY/06/26
02	ISSUED FOR TENDER	APR/15/26
01	ISSUED FOR PERMIT	APR/01/26

PROJECT NORTH
TRUE NORTH
scale 1:100

consultant:
LICENSED PROFESSIONAL ENGINEER
K. NAJAFZADEH
100510929
MAY. 06, 2026
PROVINCE OF ONTARIO

drawn	K.N.
last worked on	by
checked	K.N.
print date	

BJC architects + assocs. inc.

client
HALTON DISTRICT SCHOOL BOARD
2050 GUELPH LINE
BURLINGTON ONTARIO

project
MILTON DISTRICT HIGH SCHOOL
396 WILLIAMS AVE.
MILTON ONTARIO

drawing title
ADDITION
SECOND FLOOR
LIGHTING
NEW WORK

reference

project no.	client reference number
2024-21	

sheet no.
E - 402 00

EMERGENCY BATTERY UNIT CONNECTED LOAD WATTAGE TO BE SIZED FOR 1HR BACKUP	
BATTERY UNIT	CONNECTED LOAD (W)
E15	120W
E16	156W
E17	162W

ADDITION – THIRD FLOOR – LIGHTING – NEW WORK
SCALE: 1:100

Halton District School Board

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3rd FLOOR
KEY PLAN

No.	REVISIONS	date
03	ISSUED FOR ADDENDUM#3	MAY/06/26
02	ISSUED FOR TENDER	APR/15/26
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PROJECT NORTH
TRUE NORTH
scale 1:100

consultant
LICENSED PROFESSIONAL ENGINEER K. NAJAFZADEH 100510929 APR. 15, 2026 PROVINCE OF ONTARIO

drawn	K.N.
last worked on	by
checked	K.N.
print date	

BJC architects + assocs. inc.

client
HALTON DISTRICT SCHOOL BOARD
2050 GUELPH LINE
BURLINGTON ONTARIO

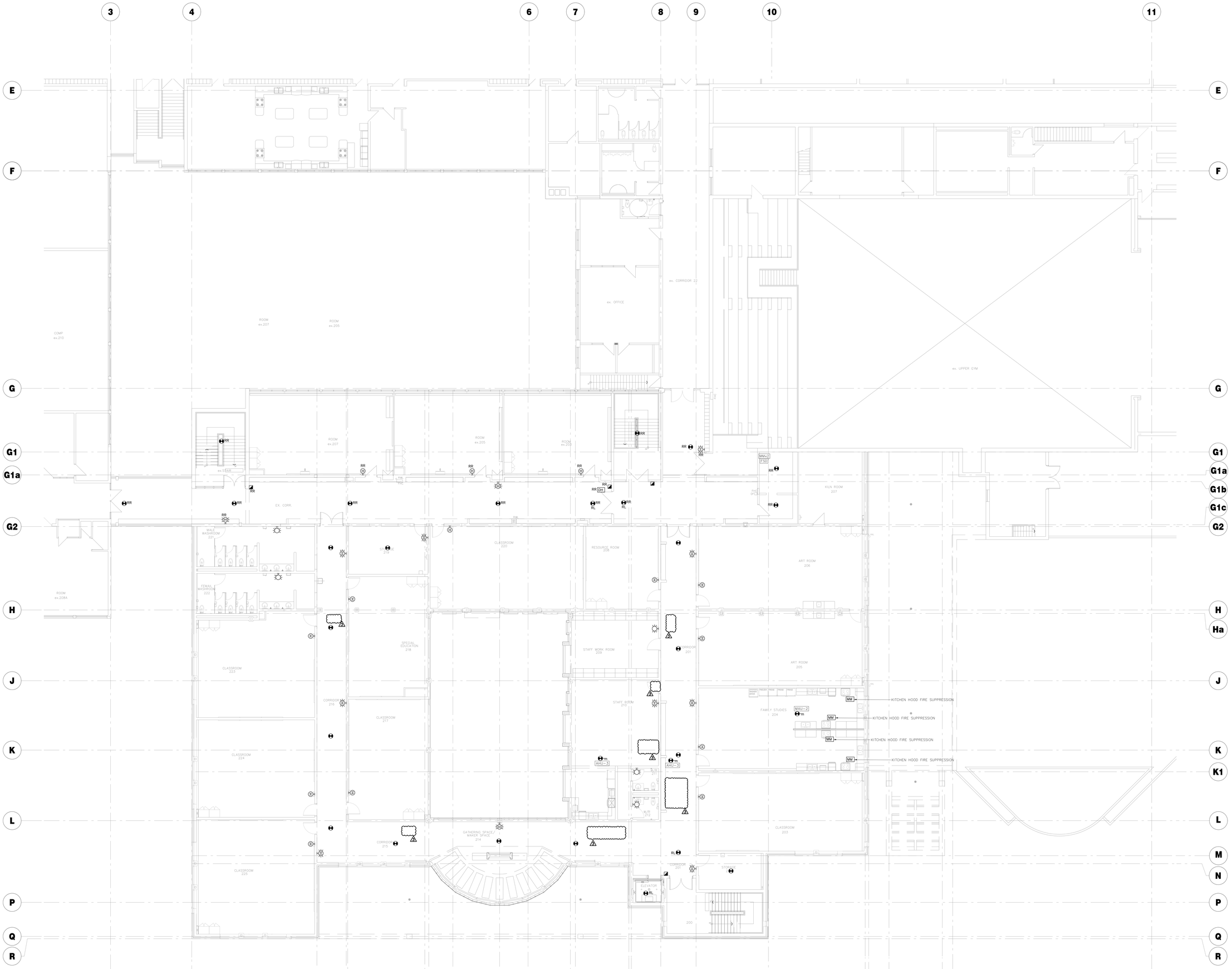
project
MILTON DISTRICT HIGH SCHOOL
396 WILLIAMS AVE.
MILTON ONTARIO

drawing title
ADDITION
THIRD FLOOR
LIGHTING
NEW WORK

reference

project no.	client reference number
2024-21	

sheet no.
E-403 00



ADDITION – SECOND FLOOR – FIRE ALARM – NEW WORK

SCALE: 1:100

Halton District School Board

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PROJECT NORTH
TRUE NORTH
scale 1:100

consultant: LICENSED PROFESSIONAL ENGINEER K. NAJAFZADEH 100510929 MAY. 06, 2026 PROVINCE OF ONTARIO
drawn K.N.
last worked on by
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print date

BJC architects + assocs, inc.

client
HALTON DISTRICT SCHOOL BOARD
2050 GUELPH LINE
BURLINGTON ONTARIO

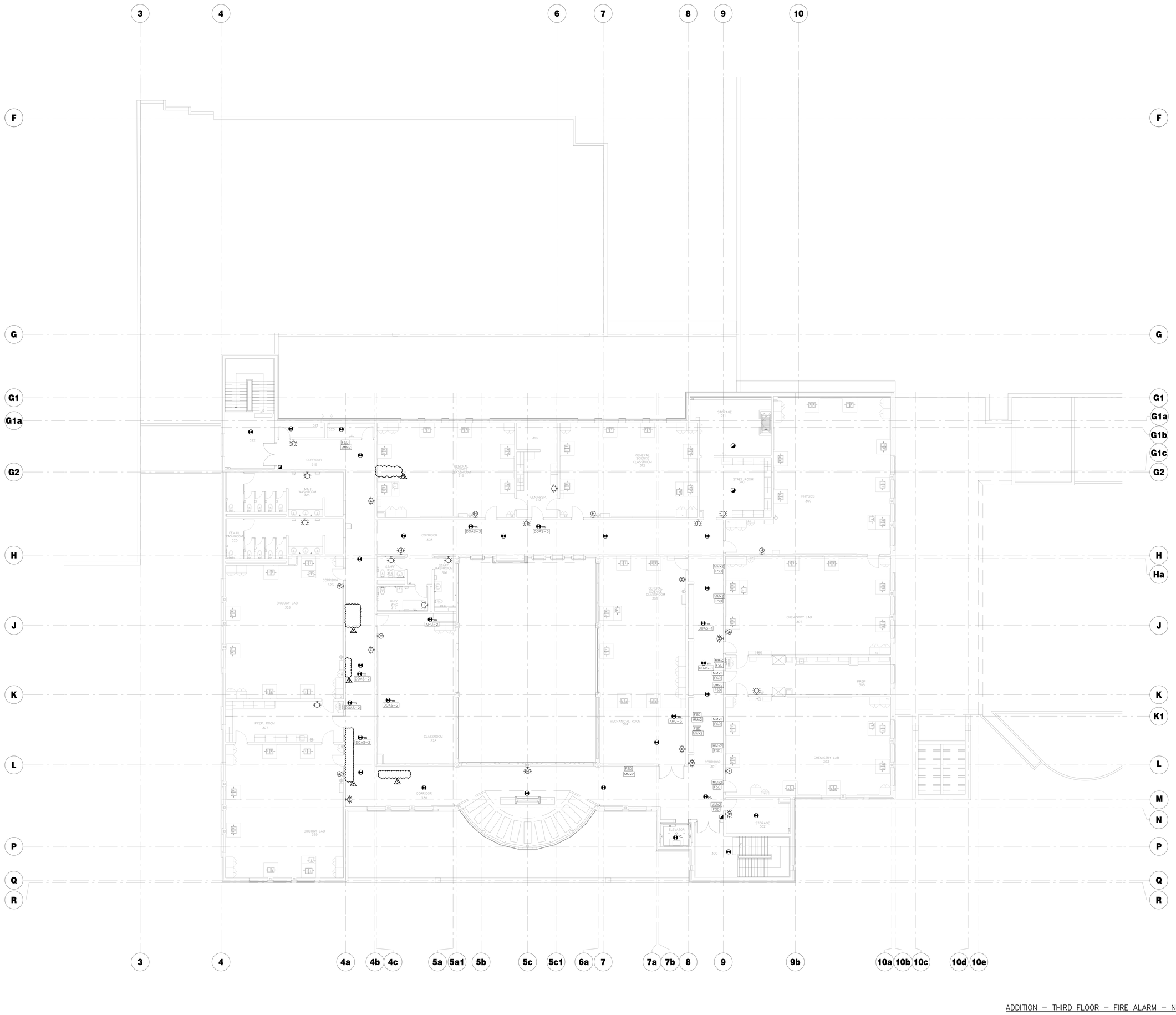
project
MILTON DISTRICT HIGH SCHOOL
396 WILLIAMS AVE.
MILTON ONTARIO

drawing title
ADDITION
SECOND FLOOR
FIRE ALARM
NEW WORK

reference

project no. 2024-21
client reference number

sheet no. E-502 00



ADDITION – THIRD FLOOR – FIRE ALARM – NEW WORK
SCALE: 1:100

Halton District School Board

CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND THE ENGINEER SHALL BE INFORMED OF ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN ON THE DRAWINGS. DO NOT SCALE DRAWINGS. SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL BEFORE PROCEEDING WITH FABRICATION. THIS DRAWING IS THE PROPERTY OF SAB ENGINEERING INC. AND SHALL NOT BE REPRODUCED WITHOUT THEIR PERMISSION AND UNLESS THE REPRODUCTION CARRIES THEIR NAME. ALL INFORMATION SHOWN ON THIS DRAWING IS FOR USE ON THE SPECIFIED PROJECT ONLY AND SHALL NOT BE USED OTHERWISE WITHOUT WRITTEN PERMISSION OF SAB ENGINEERING INC.

SAB ENGINEERING Inc.
569 EDWARD AVE., UNIT 25, RICHMOND HILL, ONT., L4C 9Y6
TEL. (905)-787 8885 FAX (905)-787 8771

3rd FLOOR
KEY PLAN

No.	REVISIONS	date
03	ISSUED FOR ADDENDUM3	MAY/06/26
02	ISSUED FOR TENDER	APR/15/26
01	ISSUED FOR PERMIT	APR/01/26

PROJECT NORTH
TRUE NORTH
scale 1:100

Consultant
LICENSED PROFESSIONAL ENGINEER K. NAJAFZADEH 100510929 MAY 06, 2026 PROVINCE OF ONTARIO

drawn K.N.
last worked on by
checked K.N.
permit date

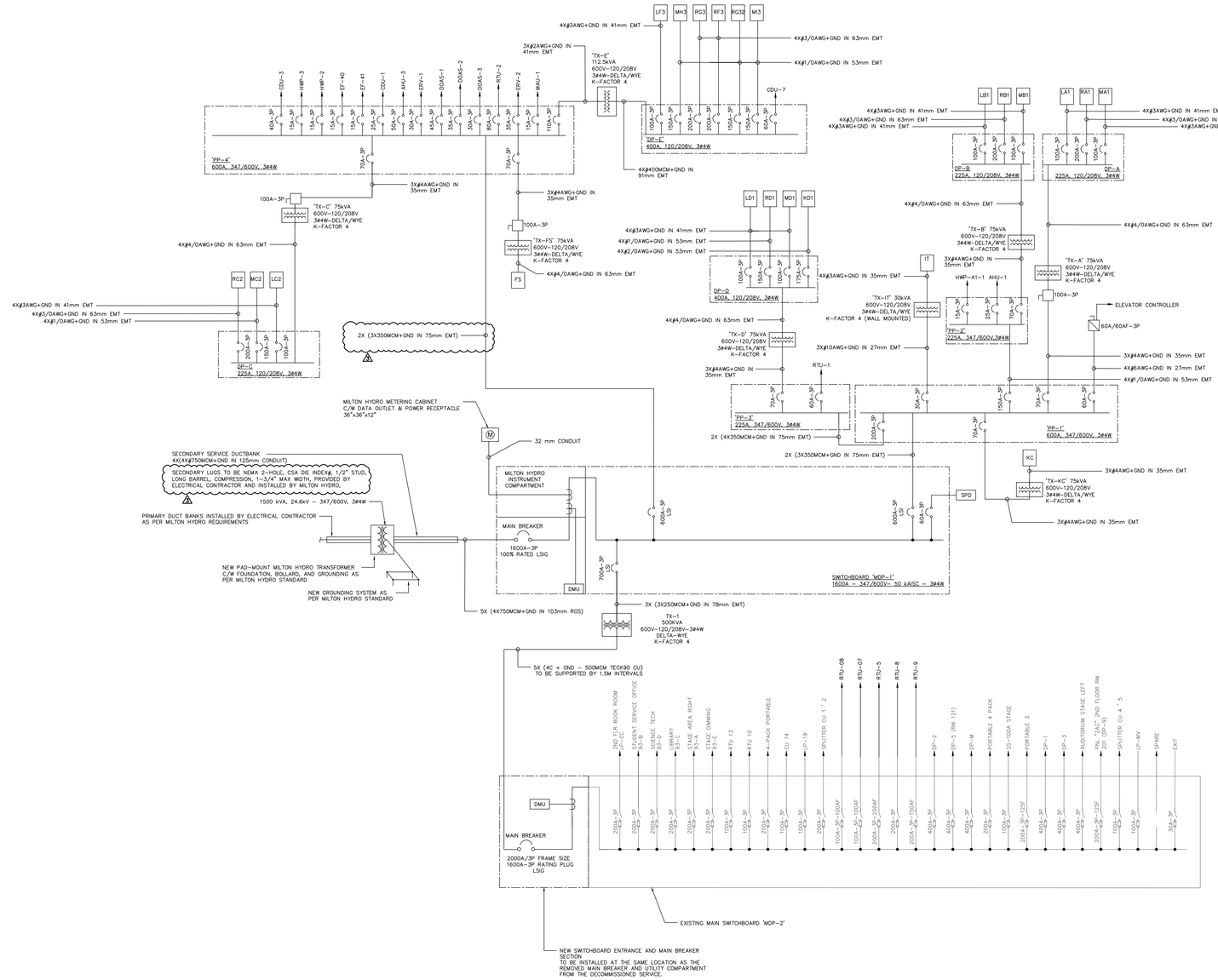
BJC architects + assocs. inc.

client
HALTON DISTRICT SCHOOL BOARD
2050 GUELPH LINE
BURLINGTON ONTARIO

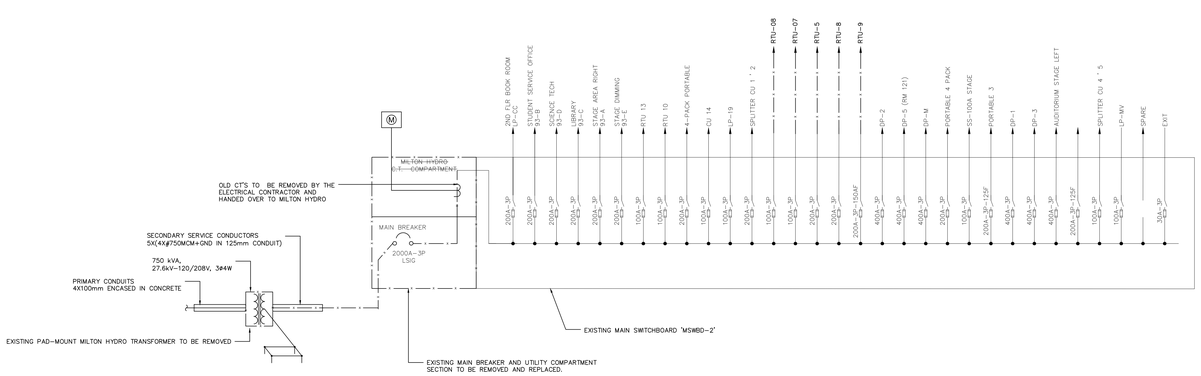
project
MILTON DISTRICT HIGH SCHOOL
396 WILLIAMS AVE.
MILTON ONTARIO

drawing title
ADDITION
THIRD FLOOR
FIRE ALARM
NEW WORK

reference
project no. 2024-21
client reference number
sheet no. E-503 00



SINGLE LINE DIAGRAM – NEW WORK
NTS



SINGLE LINE DIAGRAM – DEMO WORK
NTS

DEMAND LOAD & SERVICE SIZING CALCULATION:

CLASSROOM AREA 2924 sq. m. @ 50W/sq. m. DEMAND LOAD=146kW

NON CLASSROOM AREA 1756 sq. m. @ 10W/sq. m. DEMAND LOAD=17.56kW

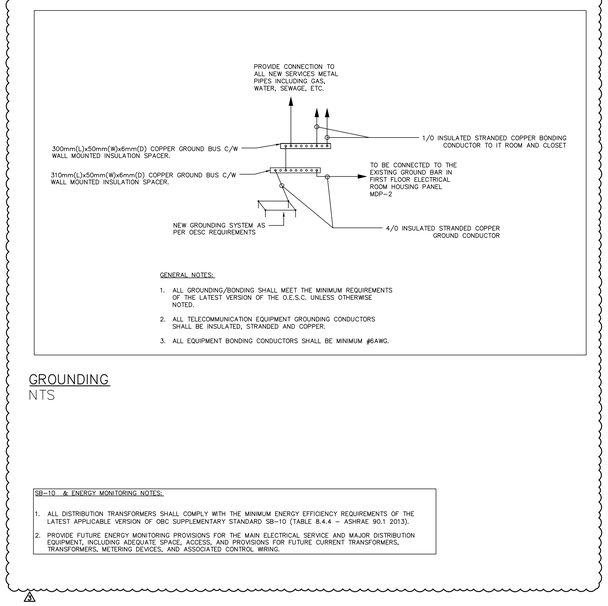
HVAC & OTHER EQUIPMENT = 505 kW

TOTAL DEMAND LOAD AFTER APPLY DEMAND FACTORS = 595 kW

EXISTING BUILDING MAX DEMAND LOAD EXTRACTED FORM HYDRO BILLS FOR LAST TWO YEARS (PLUS 25%)= 367 kW

THE NEW MAXIMUM DEMAND LOAD= 961 kW

THE NEW 600V SERVICE AMPACITY WITH 25% EXPANSION AND CONSTANT LOAD FACTOR: 1440 AMP
1600A- 3#4W SERVICE



GENERAL NOTES:

1. ALL GROUNDING/BONDING SHALL MEET THE MINIMUM REQUIREMENTS OF THE LATEST VERSION OF THE O.E.S.C. UNLESS OTHERWISE NOTED.
2. ALL TELECOMMUNICATION EQUIPMENT GROUNDING CONDUCTORS SHALL BE INSULATED, STRANDED AND COPPER.
3. ALL EQUIPMENT BONDING CONDUCTORS SHALL BE MINIMUM #6AWG.

GROUNDING
NTS

SB-10 & ENERGY MONITORING NOTES:

1. ALL DISTRIBUTION TRANSFORMERS SHALL COMPLY WITH THE MINIMUM ENERGY EFFICIENCY REQUIREMENTS OF THE LATEST APPLICABLE VERSION OF OBC SUPPLEMENTARY STANDARD SB-10 (TABLE 8.4.4 – ASHRAE 90.1 2013).
2. PROVIDE FUTURE ENERGY MONITORING PROVISIONS FOR THE MAIN ELECTRICAL SERVICE AND MAJOR DISTRIBUTION EQUIPMENT, INCLUDING ADEQUATE SPACE, ACCESS, AND PROVISIONS FOR FUTURE CURRENT TRANSFORMERS, TRANSFORMERS, METERING DEVICES, AND ASSOCIATED CONTROL WIRING.

Halton District School Board

CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND THE ENGINEER SHALL BE INFORMED OF ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN ON THE DRAWINGS. DO NOT SCALE DRAWINGS. SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL BEFORE PROCEEDING WITH FABRICATION. THIS DRAWING IS THE PROPERTY OF SAB ENGINEERING INC. AND SHALL NOT BE REPRODUCED WITHOUT THEIR PERMISSION AND UNLESS THE REPRODUCTION CARRIES THEIR NAME. ALL INFORMATION SHOWN ON THIS DRAWING IS FOR USE ON THE SPECIFIED PROJECT ONLY AND SHALL NOT BE USED OTHERWISE WITHOUT WRITTEN PERMISSION OF SAB ENGINEERING INC.

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PROJECT NORTH
TRUE NORTH
scale

CONSULTANT
LICENSED PROFESSIONAL ENGINEER
K. NAJAFZADEH
100510929
MAY 06, 2026
PROVINCE OF ONTARIO

drawn	K.N.
last worked on	by
checked	K.N.
print date	

BJC architects + assocs. inc.

client
HALTON DISTRICT SCHOOL BOARD
2050 GUELPH LINE
BURLINGTON ONTARIO

project
MILTON DISTRICT HIGH SCHOOL
396 WILLIAMS AVE.
MILTON ONTARIO

drawing title
SINGLE LINE DIAGRAM

reference

project no.	client reference number
2024-21	

sheet no.
E - 600 00

ELECTRICAL PANEL SCHEDULE

PANEL ID: LC2 | 120/208V–3Ø4W | LOCATION: ROOM 219
MAIN BUS: 225A – CU | SPRINKLER PROOF | FED FROM:
MAIN BREAKER: N/A | MOUNTING: SURFACE | INTERRUPTING CAPACITY: 14KAIC MIN.

CIR NO.	DESCRIPTION	WATTAGE Ø A	Ø B	Ø C	BRKR	PHASE A	B	C	BRKR	WATTAGE Ø A	Ø B	Ø C	DESCRIPTION	CIR NO.
1	CLASSROOM 223, 224 –LIGHTING	–	–	–	20	●			20	–	–	–	CLASSROOM 218, 220 –LIGHTING	2
3	CLASSROOM 225, 217 –LIGHTING	–	–	–	20		●		20	–	–	–	CLASSROOM 208, 206 –LIGHTING	4
5	STAFF ROOM 209 – LIGHTING	–	–	–	20			●	20	–	–	–	CLASSROOM 204 – LIGHTING	6
7	CLASSROOM 205 – LIGHTING	–	–	–	20	●			20	–	–	–	CLASSROOM 203 – LIGHTING	8
9	STAFF ROOM 210, 211, 212 – LIGHTING	–	–	–	20		●		20	–	–	–	CORRIDOR 201, 213 – LIGHTING	10
11	CORRIDORS 214, 215 &216 – LIGHTING	–	–	–	20			●	15	–	–	–	STORAGE 202 – LIGHTING	12
13	STORAGE 219 – LIGHTING	–	–	–	15	●			15	–	–	–	WASHROOMS 221 & 22 – LIGHTING	14
15	SECOND FLOOR EXIT SIGNS	–	–	–	15		●		20	–	–	–	CORRIDORS 16,17 – LIGHTING	16
17	LIGHTING SEGMENT MANAGER	–	–	–	15			●	20	–	–	–	CORRIDORS 17,18 – LIGHTING	18
19		–	–	–	–	●			–	–	–	–		20
21		–	–	–	–		●		–	–	–	–		22
23		–	–	–	–			●	–	–	–	–		24
25		–	–	–	–	●			–	–	–	–		26
27		–	–	–	–		●		–	–	–	–		28
29		–	–	–	–			●	–	–	–	–		30
31		–	–	–	–	●			–	–	–	–		32
33		–	–	–	–		●		–	–	–	–		34
35		–	–	–	–			●	–	–	–	–		36
37		–	–	–	–	●			–	–	–	–		38
39		–	–	–	–		●		–	–	–	–		40
41		–	–	–	–			●	–	–	–	–		42

TOTAL ØA: ____W , TOTAL ØB: ____W

ELECTRICAL PANEL SCHEDULE

PANEL ID: FS | 120/208V–3Ø4W | LOCATION: ROOM 204
MAIN BUS: 225A – CU | SPRINKLER PROOF | FED FROM:
MAIN BREAKER: N/A | MOUNTING: FLUSH | INTERRUPTING CAPACITY: 14KAIC MIN.

CIR NO.	DESCRIPTION	WATTAGE Ø A	Ø B	Ø C	BRKR	PHASE A	B	C	BRKR	WATTAGE Ø A	Ø B	Ø C	DESCRIPTION	CIR NO.
1	RECEPTACLES	–	–	–	15	●			30	–	–	–	DRYER	2
3	RECEPTACLES	–	–	–	15		●			–	–	–		4
5	FRIDGE	–	–	–	15			●	15	–	–	–	WASHER	6
7	FRIDGE	–	–	–	15	●			15	–	–	–	FRIDGE	8
9	COUNTER RECEPTACLE (GFCI)	–	–	–	20		●		15	–	–	–	FRIDGE	10
11	COUNTER RECEPTACLE (GFCI)	–	–	–	20			●	15	–	–	–	DISHWASHER	12
13	COUNTER RECEPTACLE (GFCI)	–	–	–	20	●			15	–	–	–	DISHWASHER	14
15	COUNTER RECEPTACLE (GFCI)	–	–	–	20		●		15	–	–	–	RANGE HOOD	16
17	COUNTER RECEPTACLE (GFCI)	–	–	–	20			●	15	–	–	–	RANGE HOOD	18
19	COUNTER RECEPTACLE (GFCI)	–	–	–	20	●			15	–	–	–	RANGE HOOD	20
21	RANGE	–	–	–	50		●		50	–	–	–	RANGE	22
23		–	–	–				●		–	–	–		24
25	RANGE	–	–	–	50	●			50	–	–	–	RANGE	26
27		–	–	–			●			–	–	–		28
29	COUNTER RECEPTACLE (GFCI)	–	–	–	20			●	15	–	–	–	RANGE HOOD	30
31	EMERGENCY STOP	–	–	–	15	●			15	–	–	–	FIRE SUPPRESSION SYSTEM	32
33		–	–	–	–		●		15	–	–	–	FIRE SUPPRESSION SYSTEM	34
35		–	–	–	–			●	15	–	–	–	FIRE SUPPRESSION SYSTEM	36
37		–	–	–	–	●			15	–	–	–	KITCHEN EXHASUT HOOD CONTROLLER	38
39		–	–	–	–		●		–	–	–	–		40
41		–	–	–	–			●	–	–	–	–		42

TOTAL ØA: ____W , TOTAL ØB: ____W

ELECTRICAL PANEL SCHEDULE

PANEL ID: MC2 | 120/208V–3Ø4W | LOCATION: ROOM 219
MAIN BUS: 225A – CU | SPRINKLER PROOF | FED FROM:
MAIN BREAKER: N/A | MOUNTING: SURFACE | INTERRUPTING CAPACITY: 14KAIC MIN.

CIR NO.	DESCRIPTION	WATTAGE Ø A	Ø B	Ø C	BRKR	PHASE A	B	C	BRKR	WATTAGE Ø A	Ø B	Ø C	DESCRIPTION	CIR NO.
1	F/S DAMPER	–	–	–	15	●			15	–	–	–	SPARE	2
3	SPARE	–	–	–	15		●		15	–	–	–	VAV BOXES – ROOMS 223,224,225	4
5	SPARE	–	–	–	15			●	15	–	–	–	VAV BOXES – ROOMS 217, 218	6
7	SPARE	–	–	–	15	●			15	–	–	–	VAV BOXES – ROOMS 209,210	8
9	SPARE	–	–	–	15		●		15	–	–	–	VAV BOXES – ROOMS 203,204,205	10
11	SPARE	–	–	–	15			●	30	–	–	–	2ND FLR GATHERING SPACE FIRE PLACE	12
13	MAINTENANCE RECEP. (GFCI)	–	–	–	20	●			15	–	–	–	2ND FLR GATHERING SPACE CURTAIN	14
15		–	–	–	–		●		–	–	–	–		16
17		–	–	–	–			●	–	–	–	–		18
19		–	–	–	–	●			–	–	–	–		20
21		–	–	–	–		●		–	–	–	–		22
23		–	–	–	–			●	–	–	–	–		24
25		–	–	–	–	●			–	–	–	–		26
27		–	–	–	–		●		–	–	–	–		28
29		–	–	–	–			●	–	–	–	–		30
31		–	–	–	–	●			–	–	–	–		32
33		–	–	–	–		●		–	–	–	–		34
35		–	–	–	–			●	–	–	–	–		36
37		–	–	–	–	●			–	–	–	–		38
39		–	–	–	–		●		–	–	–	–		40
41		–	–	–	–			●	–	–	–	–		42

TOTAL ØA: ____W , TOTAL ØB: ____W

ELECTRICAL PANEL SCHEDULE

PANEL ID: LF3 | 120/208V–3Ø4W | LOCATION: ROOM 304
MAIN BUS: 225A – CU | SPRINKLER PROOF | FED FROM:
MAIN BREAKER: N/A | MOUNTING: SURFACE | INTERRUPTING CAPACITY: 14KAIC MIN.

CIR NO.	DESCRIPTION	WATTAGE Ø A	Ø B	Ø C	BRKR	PHASE A	B	C	BRKR	WATTAGE Ø A	Ø B	Ø C	DESCRIPTION	CIR NO.
1	CLASSROOM 303 –LIGHTING	–	–	–	15	●			20	–	–	–	CLASSROOMS 305 & 307 –LIGHTING	2
3	CLASSROOM 309 –LIGHTING	–	–	–	15		●		15	–	–	–	STAFF ROOM 310 – LIGHTING	4
5	CLASSROOMS 312 & 313 –LIGHTING	–	–	–	20			●	15	–	–	–	STORAGE 311 – LIGHTING	6
7	CLASSROOM 315 –LIGHTING	–	–	–	15	●			15	–	–	–	WASHROOMS 324 & 325 – LIGHTING	8
9	IT CLOSET 321 – LIGHTING	–	–	–	15		●		15	–	–	–	WASHROOMS 316, 317 & 318 – LIGHTING	10
11	CLASSROOM 326 –LIGHTING	–	–	–	15			●	15	–	–	–	CLASSROOM 318 –LIGHTING	12
13	CLASSROOMS 327 & 329 –LIGHTING	–	–	–	20	●			15	–	–	–	CLASSROOM 306 –LIGHTING	14
15	STORAGE 302 – LIGHTING	–	–	–	15		●		15	–	–	–	MECHANICAL ROOM 311 – LIGHTING	16
17	CORRIDORS 319, 323 & 330 – LIGHTING	–	–	–	20			●	20	–	–	–	CORRIDORS 301 & 330 – LIGHTING	18
19	CORRIDORS 308 – LIGHTING	–	–	–	20	●			20	–	–	–	STAIR 'F' – LIGHTING	20
21	THIRD FLOOR EXIT SIGNS	–	–	–	15		●		20	–	–	–	ATRIUM – LIGHTING	22
23	STAIR 'B' – LIGHTING	–	–	–	20			●	20	–	–	–	ATRIUM – LIGHTING	24
25		–	–	–	–	●			–	–	–	–		26
27		–	–	–	–		●		–	–	–	–		28
29		–	–	–	–			●	–	–	–	–		30
31		–	–	–	–	●			–	–	–	–		32
33		–	–	–	–		●		–	–	–	–		34
35		–	–	–	–			●	–	–	–	–		36
37		–	–	–	–	●			–	–	–	–		38
39		–	–	–	–		●		–	–	–	–		40
41		–	–	–	–			●	–	–	–	–		42

TOTAL ØA: ____W , TOTAL ØB: ____W

ELECTRICAL PANEL SCHEDULE

PANEL ID: RG3 | 120/208V–3Ø4W | LOCATION: ROOM 313
MAIN BUS: 225A – CU | SPRINKLER PROOF | FED FROM:
MAIN BREAKER: N/A | MOUNTING: FLUSH | INTERRUPTING CAPACITY: 14KAIC MIN.

CIR NO.	DESCRIPTION	WATTAGE Ø A	Ø B	Ø C	BRKR	PHASE A	B	C	BRKR	WATTAGE Ø A	Ø B	Ø C	DESCRIPTION	CIR NO.
1	REC. CORRIDOR 319, 323	–	–	–	20	●			15	–	–	–	REC. JANITOR CLOSET 320	2
3	REC. IT CLOSET 321	–	–	–	20		●		20	–	–	–	REC.WASHRROMS 324 & 325	4
5	REC. IT CLOSET 321	–	–	–	20			●	15	–	–	–	HAND–DRYER WR 324 (GFCI)	6
7	REC. STAFF WR 318, 317, 316	–	–	–	20	●			15	–	–	–	HAND–DRYER WR 324 (GFCI)	8
9	ADO UNIV. WR 317	–	–	–	15		●		15	–	–	–	HAND–DRYER WR 325 (GFCI)	10
11	HAND–DRYER WR 317 (GFCI)	–	–	–	15			●	15	–	–	–	HAND–DRYER WR 325 (GFCI)	12
13	REC. CORRIDOR 319, 323	–	–	–	20	●			20	–	–	–	COUNTER REC. PREP. ROOM 313 – (GFCI)	14
15	REC. CLASSROOM 315 (GFCI)	–	–	–	15		●		20	–	–	–	REC. PREP. ROOM 313	16
17	REC. CLASSROOM 315 (GFCI)	–	–	–	15			●	15	–	–	–	REC. PREP. ROOM 315	18
19	REC. CLASSROOM 315 (GFCI)	–	–	–	15	●			15	–	–	–	REC. CLASSROOM 312 (GFCI)	20
21	REC. CLASSROOM 315 (GFCI)	–	–	–	15		●		15	–	–	–	REC. CLASSROOM 312 (GFCI)	22
23	REC. CLASSROOM 315 (GFCI)	–	–	–	15			●	15	–	–	–	REC. CLASSROOM 312 (GFCI)	24
25	REC. CLASSROOM 315 (GFCI)	–	–	–	15	●			15	–	–	–	REC. CLASSROOM 312 (GFCI)	26
27	REC. CLASSROOM 315	–	–	–	20		●		15	–	–	–	REC. CLASSROOM 312 (GFCI)	28
29	POWER FOR FAUCETS IN WR 324 & 325	–	–	–	15			●	15	–	–	–	REC. CLASSROOM 312 (GFCI)	30
31	POWER FOR FAUCETS IN WR 316, 317 & 318	–	–	–	15	●			15	–	–	–	REC. CLASSROOM 312	32
33	BOTTLE FILLING STATION – GFCI	–	–	–	15		●		15	–	–	–	EMERGENCY SHUT OFF PANELS RM 312, 313,315	34
35	HAND–DRYER WR 325 (GFCI)	–	–	–	15			●	15	–	–	–	HAND–DRYER WR 324 (GFCI)	36
37	HAND–DRYER WR 318 (GFCI)	–	–	–	15	●			15	–	–	–	HAND–DRYER WR 316 (GFCI)	38
39		–	–	–	–		●		–	–	–	–		40
41		–	–	–	–			●	–	–	–	–		42

TOTAL ØA: ____W , TOTAL ØB: ____W

ELECTRICAL PANEL SCHEDULE

PANEL ID: RG32 | 120/208V–3Ø4W | LOCATION: 329
MAIN BUS: 225A – CU | SPRINKLER PROOF | FED FROM:
MAIN BREAKER: N/A | MOUNTING: FLUSH | INTERRUPTING CAPACITY: 14KAIC MIN.

CIR NO.	DESCRIPTION	WATTAGE Ø A	Ø B	Ø C	BRKR	PHASE A	B	C	BRKR	WATTAGE Ø A	Ø B	Ø C	DESCRIPTION	CIR NO.
1	REC. CLASSROOM 329 (GFCI)	–	–	–	15	●			20	–	–	–	COUNTER REC. PREP. ROOM 327 – (GFCI)	2
3	REC. CLASSROOM 329 (GFCI)	–	–	–	15		●		20	–	–	–	COUNTER REC. PREP. ROOM 327	4
5	REC. CLASSROOM 329 (GFCI)	–	–	–	15			●	20	–	–	–	REC. PREP. ROOM 327	6
7	REC. CLASSROOM 329 (GFCI)	–	–	–	15	●			20	–	–	–	REC. PREP. ROOM 327	8
9	REC. CLASSROOM 329 (GFCI)	–	–	–	15		●		20	–	–	–	REC. PREP. ROOM 327	10
11	REC. CLASSROOM 329 (GFCI)	–	–	–	15			●	15	–	–	–	REC. CLASSROOM 326 (GFCI)	12
13	REC. CLASSROOM 329	–	–	–	15	●			15	–	–	–	REC. CLASSROOM 326 (GFCI)	14
15	REC. CLASSROOM 328	–	–	–	15		●		15	–	–	–	REC. CLASSROOM 326 (GFCI)	16
17	REC. CLASSROOM 328	–	–	–	15			●	15	–	–	–	REC. CLASSROOM 326 (GFCI)	18
19	EMERGENCY SHUT OFF PANELS RM 326, 327, 329	–	–	–	15	●			15	–	–	–	REC. CLASSROOM 326 (GFCI)	20
21		–	–	–	–		●		15	–	–	–	REC. CLASSROOM 326 (GFCI)	22
23		–	–	–	–			●	15	–	–	–	REC. CLASSROOM 326	24
25		–	–	–	–	●			–	–	–	–		26
27		–	–	–	–		●		–	–	–	–		28
29		–	–	–	–			●	–	–	–	–		30
31		–	–	–	–	●			–	–	–	–		32
33		–	–	–	–		●		–	–	–	–		34
35		–	–	–	–			●	–	–	–	–		36
37		–	–	–	–	●			–	–	–	–		38
39		–	–	–	–		●		–	–	–	–		40
41		–	–	–	–			●	–	–	–	–		42

TOTAL ØA: ____W , TOTAL ØB: ____W

ELECTRICAL PANEL SCHEDULE

PANEL ID: RF3 | 120/208V–3Ø4W | LOCATION: ROOM 305
MAIN BUS: 225A – CU | SPRINKLER PROOF | FED FROM:
MAIN BREAKER: N/A | MOUNTING: FLUSH | INTERRUPTING CAPACITY: 14KAIC MIN.

CIR NO.	DESCRIPTION	WATTAGE Ø A	Ø B	Ø C	BRKR	PHASE A	B	C	BRKR	WATTAGE Ø A	Ø B	Ø C	DESCRIPTION	CIR NO.
1	REC. CLASSROOM 303 (GFCI)	–	–	–	15	●			15	–	–	–	REC. CLASSROOM 307 (GFCI)	2
3	REC. CLASSROOM 303 (GFCI)	–	–	–	15		●		15	–	–	–	REC. CLASSROOM 307 (GFCI)	4
5	REC. CLASSROOM 303 (GFCI)	–	–	–	15			●	15	–	–	–	REC. CLASSROOM 307 (GFCI)	6
7	REC. CLASSROOM 303 (GFCI)	–	–	–	15	●			15	–	–	–	REC. CLASSROOM 307 (GFCI)	8
9	REC. CLASSROOM 303	–	–	–	15		●		15	–	–	–	REC. CLASSROOM 307	10
11	REC. CLASSROOM 303 (GFCI)	–	–	–	15			●	15	–	–	–	REC. CLASSROOM 307 (GFCI)	12
13	REC. CLASSROOM 303 (GFCI)	–	–	–	15	●			15	–	–	–	REC. CLASSROOM 307 (GFCI)	14
15	COUNTER REC. PREP RM 305 (GFCI)	–	–	–	20		●		15	–	–	–	REC. CLASSROOM 309 (GFCI)	16
17	COUNTER REC. PREP RM 305 (GFCI)	–	–	–	20			●	15	–	–	–	REC. CLASSROOM 309 (GFCI)	18
19	REC. PREP RM 305	–	–	–	15	●			15	–	–	–	REC. CLASSROOM 309 (GFCI)	20
21	REC. STAFF WORK ROOM 310	–	–	–	15		●		15	–	–	–	REC. CLASSROOM 309 (GFCI)	22
23	REC. STAFF WORK ROOM 310	–	–	–	15			●	15	–	–	–	REC. CLASSROOM 309 (GFCI)	24
25	REC. STAFF WORK ROOM 310	–	–	–	15	●			15	–	–	–	REC. CLASSROOM 309 (GFCI)	26
27	REC. STORAGE 311	–	–	–	15		●		15	–	–	–	REC. CLASSROOM 309 (GFCI)	28
29	REC. MECH. ROOM 304	–	–	–	15			●	15	–	–	–	REC. CLASSROOM 309	30
31	REC. CLASSROOM 306 (GFCI)	–	–	–	15	●			15	–	–	–	REC. CLASSROOM 309	32
33	REC. CLASSROOM 306 (GFCI)	–	–	–	15		●		20	–	–	–	REC. CORRIDOR 301	34
35	REC. CLASSROOM 306 (GFCI)	–	–	–	15			●	20	–	–	–	REC. CORRIDOR 330	36
37	REC. CLASSROOM 306 (GFCI)	–	–	–	15	●			20	–	–	–	SPARE	38
39	REC. CLASSROOM 306 (GFCI)	–	–	–	15		●		20	–	–	–	FUME HOOD RM 303	40
41	REC. CLASSROOM 306 (GFCI)	–	–	–	15			●	20	–	–	–	FUME HOOD RM 307	42
43	REC. CLASSROOM 306	–	–	–	15	●			15	–	–	–	FIRE PLACE RECEPTACLES	44
45	EMERGENCY SHUT OFF PANELS RM 303 & 305, 306, 307, 309	–	–	–	15		●		–	–	–	–		46
47		–	–	–	–			●	–	–	–	–		48
49		–	–	–	–	●			–	–	–	–		50
51		–	–	–	–		●		–	–	–	–		52
53		–	–	–	–			●	–	–	–	–		54
55		–	–	–	–	●			–	–	–	–		56
57		–	–	–	–		●		–	–	–	–		58
59		–	–	–	–			●	–	–	–	–		60

TOTAL ØA: ____W , TOTAL ØB: ____W

ELECTRICAL PANEL SCHEDULE

PANEL ID: RC2 | 120/208V–3Ø4W | LOCATION: ROOM 219
MAIN BUS: 225A – CU | SPRINKLER PROOF | FED FROM:
MAIN BREAKER: N/A | MOUNTING: SURFACE | INTERRUPTING CAPACITY: 14KAIC MIN.

CIR NO.	DESCRIPTION	WATTAGE Ø A	Ø B	Ø C	BRKR	PHASE A	B	C	BRKR	WATTAGE Ø A	Ø B	Ø C	DESCRIPTION	CIR NO.
1	REC. CLASSROOM 225	–	–	–	15	●			15	–	–	–	REC. CLASSROOM 224	2
3	REC. CLASSROOM 225	–	–	–	15		●		15	–	–	–	REC. CLASSROOM 224	4
5	REC. CLASSROOM 223	–	–	–	15			●	15	–	–	–	REC. WASHROOMS 221 & 222	6
7	REC. CLASSROOM 223	–	–	–	20	●			15	–	–	–	REC. STORAGE 219	8
9	REC. CLASSROOM 218	–	–	–	15		●		15	–	–	–	REC. CLASSROOM 217	10
11	REC. CLASSROOM 218	–	–	–	15			●	15	–	–	–	REC. CLASSROOM 217	12
13	REC. CLASSROOM 220	–	–	–	15	●			15	–	–	–	REC. RESOURCE ROOM 208	14
15	REC. CLASSROOM 220	–	–	–	15		●		15	–	–	–	REC. RESOURCE ROOM 208	16
17	REC. CLASSROOM 203	–	–	–	15			●	15	–	–	–	REC. STAFF ROOM 210	18
19	REC. CLASSROOM 203	–	–	–	15	●			15	–	–	–	REC. STAFF ROOM 210	20
21	REC. STAFF WORKROOM 209	–	–	–	15		●		20	–	–	–	WR REC. STAFF ROOM 210 – (GFCI)	22
23	REC. STAFF WORKROOM 209	–	–	–	15			●	15	–	–	–	FRIDGE STAFF ROOM 210	24
25	REC. STAFF WORKROOM 209	–	–	–	15	●			15	–	–	–	FRIDGE STAFF ROOM 210	26
27	REC. CLASSROOM 205	–	–	–	15		●		20	–	–	–	REC. STAFF ROOM 210 – (GFCI)	28
29	REC. CLASSROOM 205	–	–	–	15			●	20	–	–	–	REC. STAFF ROOM 210 – (GFCI)	30
31	COUNTER REC. CLASSROOM 205 – (GFCI)	–	–	–	20	●			15	–	–	–	REC. CLASSROOM 206	32
33	REC. CORRIDORS 214 & 215	–	–	–	20		●		15	–	–	–	REC. CLASSROOM 206	34
35	REC. CORRIDORS 201, 213 & STAIR 'F'	–	–	–	20			●	20	–	–	–	COUNTER REC. CLASSROOM 206 – (GFCI)	36
37	REC. STORAGE 202	–	–	–	20	●			15	–	–	–	HAND DRYER – UNIV. WR. 221 (GFCI)	38
39	HAND DRYER – UNIV. WR. 222 (GFCI)	–	–	–	15		●		15	–	–	–	HAND DRYER – UNIV. WR. 221 (GFCI)	40
41	HAND DRYER – UNIV. WR. 222 (GFCI)	–	–	–	15			●	15	–	–	–	BENCH RECEP. CORRIDOR 17	42
43	WALL OVEN – STAFF ROOM 210	–	–	–	20	●			15	–	–	–	BENCH RECEP. CORRIDOR 17	44
45		–	–	–			●		20	–	–	–	DISHWASHER STAFF ROOM 210	46
47	RANGE – STAFF ROOM 210	–	–	–	40			●	15	–	–	–	RANGE HOOD STAFF ROOM 210	48
49		–	–	–		●			15	–	–	–	POWER FOR FAUCETS IN WR 221 & 222	50
51	BOTTLE FILLING STATION – GFCI	–	–	–	15		●		15	–	–	–	HAND DRYER – UNIV. WR. 221 (GFCI)	52
53	HAND DRYER – UNIV. WR. 222 (GFCI)	–	–	–	15			●	15	–	–	–	HAND DRYER – UNIV. WR. 211 (GFCI)	54
55		–	–	–	–	●			15	–	–	–	HAND DRYER – UNIV. WR. 212 (GFCI)	56
57		–	–	–	–		●		–	–	–	–		58
59		–	–	–	–			●	–	–	–	–		60

TOTAL ØA: ____W , TOTAL ØB: ____W

ELECTRICAL PANEL SCHEDULE

PANEL ID: MH3 | 120/208V–3Ø4W | LOCATION: ROOM 304
MAIN BUS: 225A – CU | SPRINKLER PROOF | FED FROM:
MAIN BREAKER: N/A | MOUNTING: SURFACE | INTERRUPTING CAPACITY: 14KAIC MIN.

CIR NO.	DESCRIPTION	WATTAGE Ø A	Ø B	Ø C	BRKR	PHASE A	B	C	BRKR	WATTAGE Ø A	Ø B	Ø C	DESCRIPTION	CIR NO.
1	CDU–4	–	–	–	40	●			15	–	–	–	SPARE	2
3		–	–	–			●		15	–	–	–	F/S DAMPERS	4
5		–	–	–				●	15	–	–	–	UNIT HEATER MECH ROOM 304	6
7	3RD FLR GATHERING SPACE CURTAIN	–	–	–	15	●			15	–	–	–	EF–14	8
9	3RD FLR GATHERING SPACE FIRE PLACE	–	–	–	15		●		15	–	–	–	EF–15	10
11	EF–18	–	–	–	15			●	15	–	–	–	EF–16	12
13	EF–34	–	–	–	15	●			15	–	–	–	EF–17	14
15	EF–35	–	–	–	15		●		15	–	–	–	EF–21	16
17	EF–36	–	–	–	15			●	25	–	–	–	CDU–2	18
19	EF–37	–	–	–	15	●				–	–	–		20
21	EF–39	–	–	–	15		●		15	–	–	–	SPARE	22
23	KEF–1	–	–	–	35			●	15	–	–	–	SPARE	24
25		–	–	–		●			20	–	–	–	MAU–2	26
27		–	–	–			●			–	–	–		28
29	MAINTENANCE RECEP. (GFCI)	–	–	–	20			●		–	–	–		30
31	F/S DAMPERS	–	–	–	15	●				–	–	–		32
33		–	–	–	–		●		–	–	–	–		34
35		–	–	–	–			●	–	–	–	–		36
37		–	–	–	–	●			–	–	–	–		38
39		–	–	–	–		●		–	–	–	–		40
41		–	–	–	–			●	–	–	–	–		42

TOTAL ØA: ____W , TOTAL ØB: ____W

ELECTRICAL PANEL SCHEDULE

PANEL ID: MI3 | 120/208V–3Ø4W | LOCATION: ROOM 311
MAIN BUS: 225A – CU | SPRINKLER PROOF | FED FROM:
MAIN BREAKER: N/A | MOUNTING: SURFACE | INTERRUPTING CAPACITY: 14KAIC MIN.

CIR NO.	DESCRIPTION	WATTAGE Ø A	Ø B	Ø C	BRKR	PHASE A	B	C	BRKR	WATTAGE Ø A	Ø B	Ø C	DESCRIPTION	CIR NO.
1	EF–32	–	–	–	15	●			15	–	–	–	EF–33	2
3	EF–29	–	–	–	15		●		15	–	–	–	EF–22	4
5	EF–31	–	–	–	15			●	15	–	–	–	EF–30	6
7	EF–19	–	–	–	15	●			15	–	–	–	EF–20	8
9	EF–24	–	–	–	15		●		15	–	–	–	EF–26	10
11	EF–25	–	–	–	15			●	15	–	–	–	EF–23	12
13	CDU–5	–	–	–	30	●			30	–	–	–	CDU–6	14
15		–	–	–			●			–	–	–		16
17	EF–38	–	–	–	15			●	15	–	–	–	REC. STORAGE 311	18
19	MAINTENANCE RECEP. (GFCI)	–	–	–	20	●			15	–	–	–	EF–28	20
21	F/S DAMPERS	–	–	–	15		●		15	–	–	–	EF–27	22
23		–	–	–	–			●	–	–	–	–		24
25		–	–	–	–	●			–	–	–	–		26
27		–	–	–	–		●		–	–	–	–		28
29		–	–	–	–			●	–	–	–	–		30
31		–	–	–	–	●			–	–	–	–		32
33		–	–	–	–		●		–	–	–	–		34
35		–	–	–	–			●	–	–	–	–		36
37		–	–	–	–	●			–	–	–	–		38
39		–	–	–	–		●		–	–	–	–		40
41		–	–	–	–			●	–	–	–	–		42

TOTAL ØA: ____W , TOTAL ØB: ____W

Halton District School Board

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SAB ENGINEERING Inc.
588 EDWARD AVE., UNIT 25, RICHMOND HILL, ONT., L4C 9Y6
TEL. (905)-787 8885 FAX (905)-787 8771

No.	REVISIONS	date
03	ISSUED FOR ADDENDUM#3	MAY/06/26
02	ISSUED FOR TENDER	APR/15/26
01	ISSUED FOR PERMIT	APR/01/26

PROJECT NORTH | TRUE NORTH | scale

Consultant: LICENSED PROFESSIONAL ENGINEER K. NAJAFZADEH 100510929 MAY 06, 2026 PROVINCE OF ONTARIO

drawn: K.N.
last worked on / by
checked: K.N.
print date

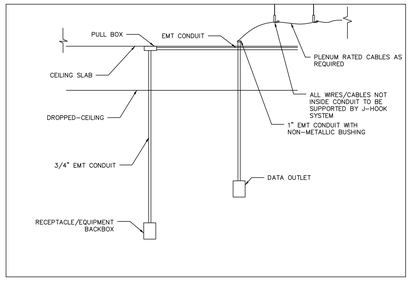
BJC architects + assocs. inc.

client
HALTON DISTRICT SCHOOL BOARD
2050 GUELPH LINE
BURLINGTON ONTARIO

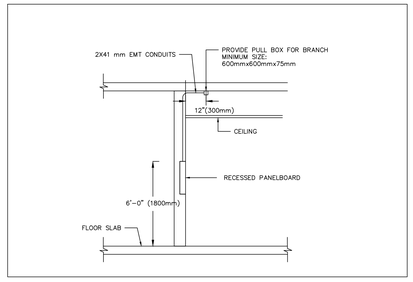
project
MILTON DISTRICT HIGH SCHOOL
396 WILLIAMS AVE.
MILTON ONTARIO

drawing title
PANEL SCHEDULES (2 OF 3)

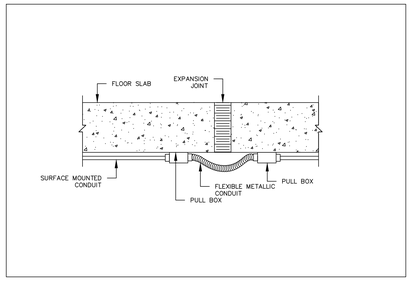
reference
project no. 2024-21
client reference number
sheet no. E-701 00



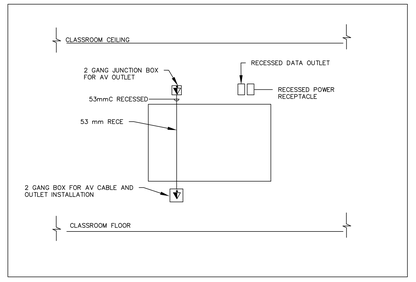
TYPICAL DATA & POWER OUTLET INSTALLATION
N.T.S



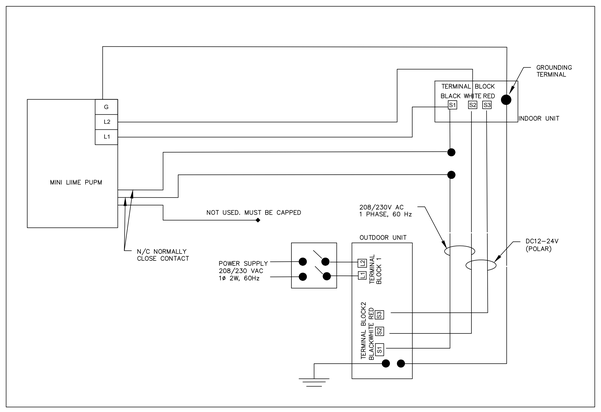
TYPICAL RECESSED PANELBOARD INSTALLATION
N.T.S



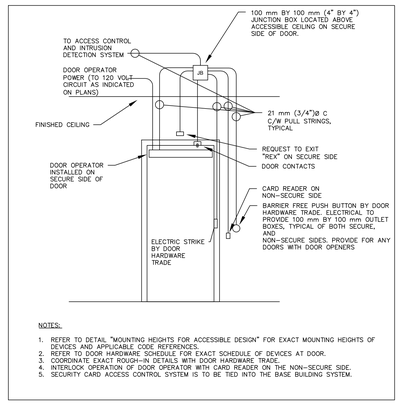
CONDUIT INSTALLATION ON BUILDING EXPANSION JOINTS
N.T.S



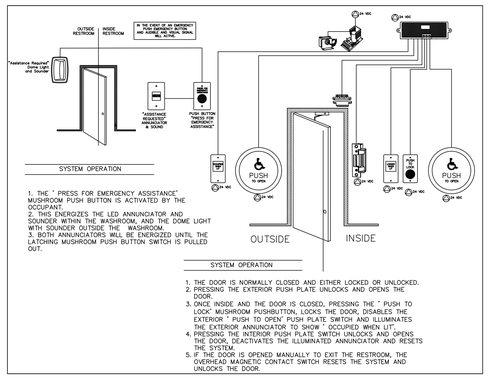
TYPICAL CLASSROOM PROJECTOR ROUGH-IN
N.T.S



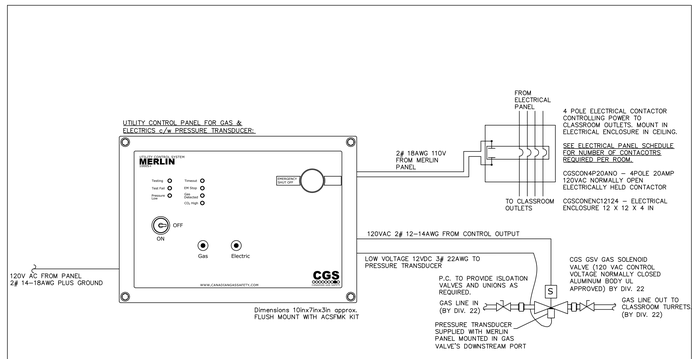
SPLIT AC UNIT WIRING DIAGRAM
N.T.S



TYPICAL DOOR ACCESS CONTROL INSTALLATION
N.T.S



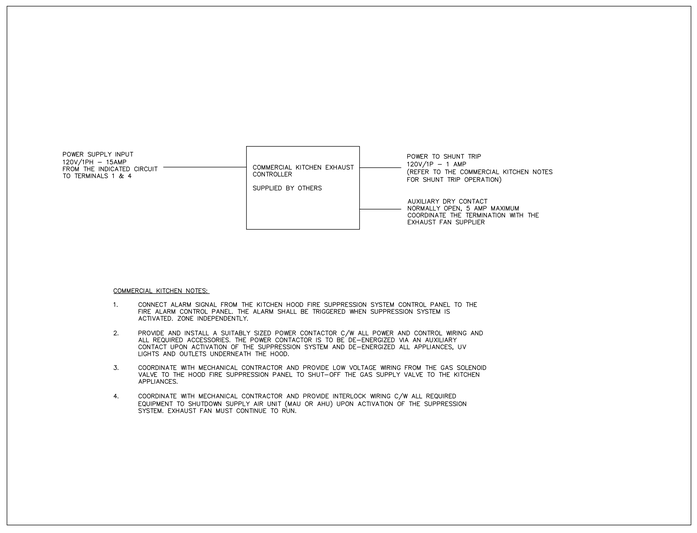
UNIVERSAL WASHROOM WIRING DIAGRAM
N.T.S



NOTES:

1. TYPICAL SEQUENCE OF OPERATION. KEY LOCK AUTHORITY REQUIRED TO SELECT GAS OR ELECTRICAL SERVICE. CONTROL PANEL TO PERFORM PRESSURE DROP TEST ON GAS LINE BEFORE ALLOWING GAS INTO CLASSROOM. IN EMERGENCY PANIC BUTTON WILL CLOSE ALL CIRCUITS.
2. VERIFY LOCATIONS OF CONTROLLER, REMOTE SHUT-OFF BUTTONS, SOLENOID AND ELECTRICAL CONTACTORS WITH DRAWINGS AND OWNER IN FIELD.
3. UNLESS NOTED OTHERWISE, P.C. TO SUPPLY CONTROLLER, REMOTE SHUT-OFF BUTTONS, GAS DETECTOR, SOLENOID AND CONTACTORS AS A WHOLE SYSTEM. P.C. TO COORDINATE WITH E.C.
4. UNLESS NOTED OTHERWISE, WIRING, ELECTRICAL CONNECTIONS AND TESTING BY DIV. 26. COORDINATE GAS SOLENOID VALVE LOCATION AND FIELD WIRING WITH DIV. 22.
5. PRESSURE TRANSDUCER SUPPLIED WITH CONTROL PANEL, INSTALLED IN DOWNSTREAM PORT OF GAS SOLENOID SUPPLIED BY P.C. SEE MANUFACTURER'S DETAILS.
6. 120V AC SUPPLY TO CONTROLLER. 120V AC SUPPLY FROM CONTROLLER TO SOLENOID. 120V AC SUPPLY FROM CONTROLLER TO CONTACTORS. LOW VOLTAGE SUPPLY SIGNAL TO PRESSURE TRANSDUCER. 12V DC SUPPLY FROM CONTROLLER TO GAS DETECTOR.
7. BASIS OF DESIGN CGS MERLIN 1000S+ UTILITY CONTROL SYSTEM. CONTACT CANADIAN GAS SAFETY FOR INFORMATION. WWW.CANADIANGASSAFETY.COM TEL: (647) 577-1500

EMERGENCY SHUTDOWN FOR SCIENCE ROOMS
N.T.S



COMMERCIAL KITCHEN NOTES:

1. CONNECT ALARM SIGNAL FROM THE KITCHEN HOOD FIRE SUPPRESSION SYSTEM CONTROL PANEL TO THE FIRE ALARM CONTROL PANEL. THE ALARM SHALL BE TRIGGERED WHEN SUPPRESSION SYSTEM IS ACTIVATED. ZONE INDEPENDENTLY.
2. PROVIDE AND INSTALL A SUITABLY SIZED POWER CONTACTOR C/W ALL POWER AND CONTROL WIRING AND ALL REQUIRED ACCESSORIES. THE POWER CONTACTOR IS TO BE DE-ENERGIZED VIA AN AUXILIARY CONTACT UPON ACTIVATION OF THE SUPPRESSION SYSTEM AND DE-ENERGIZED ALL APPLIANCES, UV LIGHTS AND OUTLETS UNDERNEATH THE HOOD.
3. COORDINATE WITH MECHANICAL CONTRACTOR AND PROVIDE LOW VOLTAGE WIRING FROM THE GAS SOLENOID VALVE TO THE HOOD FIRE SUPPRESSION PANEL TO SHUT-OFF THE GAS SUPPLY VALVE TO THE KITCHEN APPLIANCES.
4. COORDINATE WITH MECHANICAL CONTRACTOR AND PROVIDE INTERLOCK WIRING C/W ALL REQUIRED EQUIPMENT TO SHUTDOWN SUPPLY AIR UNIT (MAU OR AHU) UPON ACTIVATION OF THE SUPPRESSION SYSTEM. EXHAUST FAN MUST CONTINUE TO RUN.

FAMILY STUDY CLASSROOM & DAYCARE COMMERCIAL KITCHEN ELECTRICAL NOTES & DETAILS
N.T.S

Halton District School Board

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No.	REVISIONS	date
03	ISSUED FOR ADDENDUM#3	MAY/06/26
02	ISSUED FOR TENDER	APR/15/26
01	ISSUED FOR PERMIT	APR/01/26

PROJECT NORTH
TRUE NORTH
scale 1:100

consultant
LICENSED PROFESSIONAL ENGINEER
K. NAJAFZADEH
100510929
MAY 06, 2026
PROVINCE OF ONTARIO

drawn K.N.
last worked on
by
checked K.N.
print date

BJC architects + assocs. inc.

client
HALTON DISTRICT SCHOOL BOARD
2050 GUELPH LINE
BURLINGTON ONTARIO

project
MILTON DISTRICT HIGH SCHOOL
396 WILLIAMS AVE.
MILTON ONTARIO

drawing title
DETAILS

reference
project no. 2024-21
client reference number
sheet no. E - 800 00

Troy
Life & Fire Safety Ltd.

TENDER ADDENDUM NO. 3

May 6, 2026

RE: Fire Sprinkler Systems
Milton District High School - Phase 2 Addition
396 Williams Avenue, Milton, ON

Project No.: 24-060
Troy Life & Fire Safety Ltd., Project No.: 6681991

1.1 Drawing SP-1:

The site plan has been revised to show new locations for the daycare fire department connection and the school addition fire department connection.

1.2 Drawing SP-2:

The fire department connection for the daycare has been relocated to the southeast corner of Staff Room 150. This is to provide clear and unobstructed access.
The fire department connection for the school addition has been relocated to the southeast corner of the Principal's Office 105. This is to place the connection within exterior brick in lieu of ACM panels.

1.3 Drawing SP-3:

3 additional concealed pendent sprinklers have been added at the Gathering Space/Maker Space 214. These sprinklers have been added to provide protection below the new gypsum board and suspended panel ceiling.

1.4 Drawing SP-4:

2 additional concealed pendent sprinklers and 3 additional exposed pendent sprinklers have been added at the Gathering Space/Maker Space 331. These sprinklers have been added to provide protection below the new gypsum board and suspended panel ceiling.

END OF ADDENDUM NO. 3

Grimsby Branch
241 South Service Road, Unit 102, Grimsby, ON, Canada, L3M 1Y6 • T 905 945 8769 • F 905 945 8768
Fire Alarm • Sprinkler • Fire Pumps • Hydrants • Foam Systems • Special Hazards • Standpipe • Firehose • 24 hr. Service •
www.troylfs.com

GENERAL SPRINKLER NOTES:

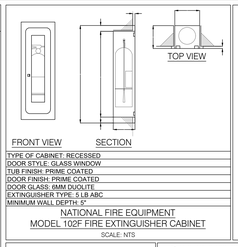
1. THIS WORK CONSISTS OF INSTALLING NEW FIRE SPRINKLER PROTECTION FOR THE BUILDING ADDITION AS SHOWN ON THESE PLANS.
   BUILDING AREA: 11,041 m2
   BUILDING AREA (SCHOOL ADDITION): 2,014 m2 GROSS AREA: 6,529 m2
   BUILDING AREA (DAYCARE ADDITION): 844 m2 GROSS AREA: 844 m2
   SYSTEM DESIGN PER NFPA 13, (2019 ED.), OBC AND OFC.
2. ALL WORK AND MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH NATIONAL FIRE PROTECTION ASSOCIATION (N.F.P.A.) CODES AND PROVINCE OF ONTARIO REQUIREMENTS.
   ALL APPLICABLE DEVICES SHALL BE UNDERWRITERS LABORATORIES (cULus) LISTED.
3. SYSTEM HYDRAULIC REQUIREMENTS SHALL BE IN ACCORDANCE WITH NFPA 13, 2019 EDITION. THE REMOTE AREAS SHOWN ON THE PLANS REPRESENT THE HYDRAULICALLY MOST REMOTE AREA OF THE BUILDING (BUT NOT ALWAYS THE PHYSICALLY MOST REMOTE).
4. SEE THE SPRINKLER LEGEND ON THIS SHEET FOR SPRINKLER CHARACTERISTICS, FINISHES, AND TEMPERATURE RATINGS. ALL HEADS SHALL CONFORM TO THIS LEGEND UNLESS SPECIFICALLY NOTED ON THE PLANS.
5. WIRE GUARDS SHALL BE PROVIDED FOR HEADS IN AREAS SUSCEPTIBLE TO DAMAGE (MECHANICAL/ELECTRICAL ROOMS)
6. ALL HANGERS TO BE LOCATED AND INSTALLED PER NFPA 13, 2019.
7. HIGH AND INTERMEDIATE TEMPERATURE SPRINKLERS WILL BE LOCATED WHERE REQUIRED BY NFPA 13 2019.
8. FIRE DEPARTMENT CONNECTION TO BE MOUNTED 18"-36" ABOVE FINISHED GRADE.
9. WET SYSTEMS:
   PIPING 1-1/2" AND LARGER (FEED MAINS AND CROSS MAINS) SHALL BE, IN GENERAL:
   SCHEDULE 10, BLACK STEEL PIPE (ASTM 135) WITH -
   ORANGE ENAMEL VICTAULIC STANDARD GROOVED OR 'FIRELOCK' GROOVED FITTINGS WITH RIGID COUPLINGS
   PIPING 1-1/4" AND SMALLER (BRANCH LINES ETC.) SHALL BE, IN GENERAL:
   SCHEDULE 40, BLACK STEEL PIPE (ASTM 130)
   WITH CLASS #125 CAST OR MALLEABLE IRON THREADED FITTINGS
10. PIPING IS TO BE HYDROSTATICALLY TESTED IN ACCORDANCE WITH NFPA 13 FOR 2 HOURS AT 200 PSI AT THE SYSTEM RISER OR ZONE CONTROL. ALL TESTING MUST BE WITNESSED BY A REPRESENTATIVE OF THE OWNER.
11. FIRE STOP TO BE PROVIDED FOR ALL PENETRATIONS IN ACCORDANCE WITH NFPA 13 AND O.B.C.
12. PAINTING OF PIPE IS NOT PART OF THIS SCOPE OF WORK.
13. TAMPER AND WATER FLOW SWITCHES TO BE PROVIDED BUT THE WIRING IS BY OTHERS.
14. CENTER LINE TO CENTER LINE MEASUREMENTS ARE SHOWN ON THESE PLANS.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF THE FIRE PROTECTION SYSTEMS AND FOR CO-ORDINATION WITH ALL SITE CONDITIONS AND OTHER TRADES. IT IS THE CONTRACTORS RESPONSIBILITY TO ALLOW FOR ADDITIONAL SPRINKLERS AND OFFSETS.
16. EXACT LOCATION AND ELEVATION OF PIPING TO BE DETERMINED BY CONTRACTOR TO SUIT SITE CONDITIONS.
17. SPRINKLER CONTRACTOR TO INCLUDE FOR OFFSETS IN SPRINKLER PIPING AND SUPPLY AND INSTALLATION OF TRAPEZE HANGERS WHERE REQUIRED.
18. THESE DRAWINGS ARE FOR PERMIT AND TENDER PURPOSES ONLY AND ARE NOT TO BE USED FOR CONSTRUCTION. THE FIRE PROTECTION CONTRACTOR IS RESPONSIBLE FOR PROVIDING FULLY ENGINEERED DRAWINGS AND HYDRAULIC CALCULATIONS AND OBTAINING ALL APPROVALS FROM THE AUTHORITY HAVING JURISDICTION AND THE DESIGN CONSULTANTS PRIOR TO FABRICATION AND INSTALLATION.
19. THE FIRE PROTECTION CONTRACTORS ENGINEER SHALL BECOME THE ENGINEER OF RECORD AND TAKE ON THE RESPONSIBILTY OF PEIRFORMING PERIODIC FIELD REVIEWS AND PROVIDE FINAL SIGN-OFF FOR BUILDING OCCUPANCY.
20. DESIGN CRITERIA:
    LIGHT HAZARD - OFFICES, CORRIDORS, WASHROOMS, VESTIBULES, CLASSROOMS.
    ORDINARY HAZARD GROUP 1 - STORAGE ROOMS, MECHANICAL ROOM, ELEVATOR MACHINE ROOM, KITCHEN, LABS.

FIRE EXTINGUISHER SCHEDULE

TAG	CANNISTER CAPACITY	NOTES	CABINET MODEL	AGENT TYPE	MINIMUM RATING	QUANTITY: ENTIRE BLDG
FE	5 lbs	WALL MOUNT W/ BRACKET	-	DRY CHEM	3A 40BC	64
FEC	5 lbs	8" X 17" X 5"	102F	DRY CHEM	3A 40BC	1
FB		FIRE BLANKET	FB-6078-MC-NFE			16

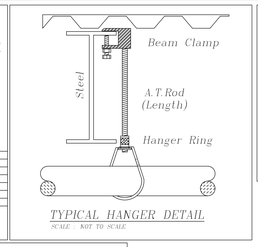
WATER FLOW INFORMATION:

LOCATION: 396 WILLIAMS AVE, MILTON, ON
STATIC = 98 PSI
RESIDUAL = 57 PSI @ 753 USGPM
SOURCE: ONTARIO FIRE PROTECTION
DATE: JUNE 26 2025

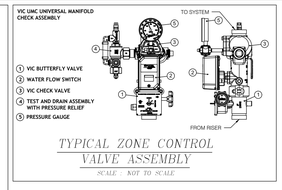


TYPE OF CABINET: RECESSED
DOOR STYLE: GLASS WINDOW
TUB FINISH: PRIME COATED
DOOR FINISH: PRIME COATED
DOOR GLASS: 6MM DUOLITE
EXTINGUISHER TYPE: 5 LB ABC
MINIMUM WALL DEPTH: 5"

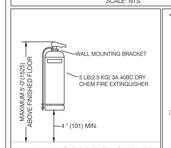
NATIONAL FIRE EQUIPMENT
MODEL 102F FIRE EXTINGUISHER CABINET
SCALE: NTS



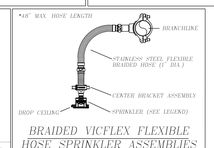
TYPICAL HANGER DETAIL
SCALE - NOT TO SCALE



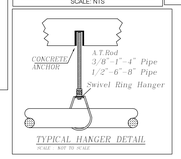
TYPICAL ZONE CONTROL VALVE ASSEMBLY
SCALE - NOT TO SCALE



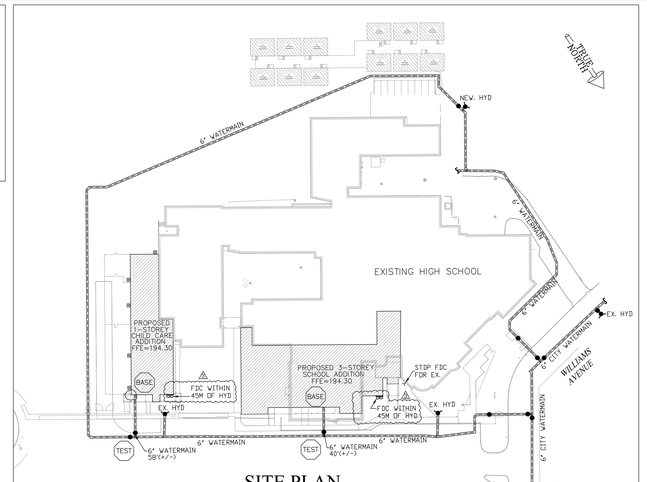
WALL HUNG FIRE EXTINGUISHER
SCALE: NTS



BRAIDED VICFLEX FLEXIBLE HOSE SPRINKLER ASSEMBLIES
SCALE - NOT TO SCALE

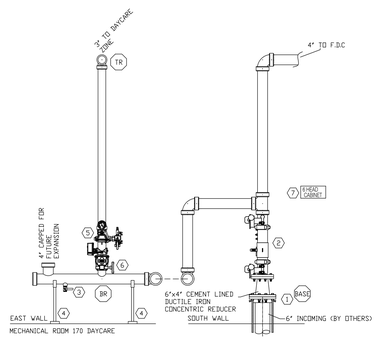


TYPICAL HANGER DETAIL
SCALE - NOT TO SCALE



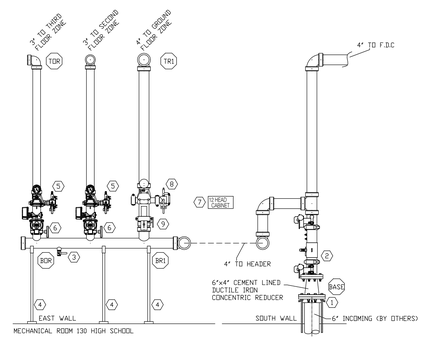
SITE PLAN
NTS

NOTE:
- SITE PLAN SHOWN FOR REFERENCE PURPOSES ONLY
- UNDERGROUND PIPING TO BE FLUSHED AND TESTED TO NFPA STANDARDS BY UNDERGROUND CONTRACTOR PRIOR TO MAKING CONNECTION INSIDE THE BUILDING AT 1'-0" AFF.
- BUILDING AREA HIGH SCHOOL: 2,014 m2, GROSS AREA: 6,529 m2, BUILDING HEIGHT: 10.13 m.
- BUILDING AREA DAYCARE ADDITION: 844 m2, GROSS AREA: 844 m2.

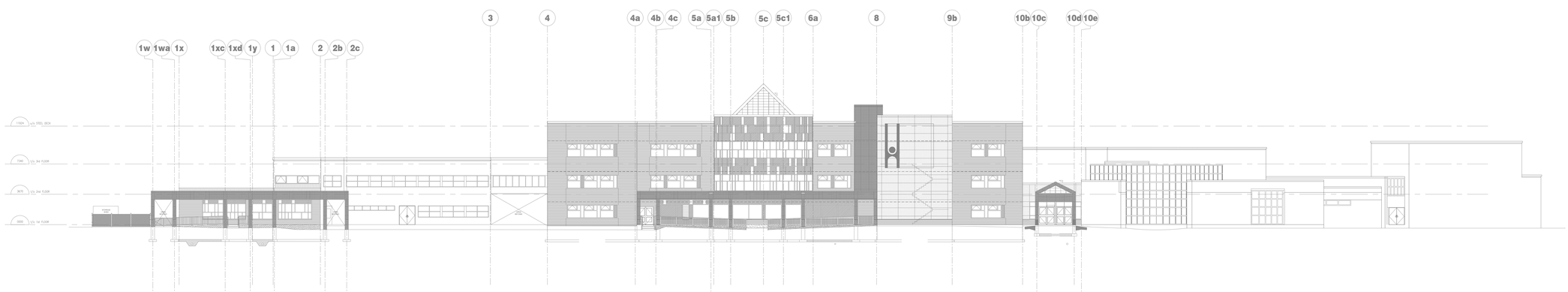


RISER DETAIL
SECTION B
SCALE 1/2" = 1'-0"

RISER DETAIL	
ITEM	DESCRIPTION
1	START OF CONTRACT
2	4" DOUBLE CHECK VALVE ASSEMBLY WITH BUTTERFLY VALVES
3	1" DRAIN VALVE
4	PIPE STAND
5	3" VIC GRV UMC MANIFOLD ASSEMBLY (CHECK VALVE, FLOW SWITCH, GAUGE, 1¼" TEST & DRAIN)
6	3" GROOVED BUTTERFLY VALVE WITH TAMPER SWITCH
7	SPARE SPRINKLER HEAD CABINET
8	4" VIC GRV UMC MANIFOLD ASSEMBLY (CHECK VALVE, FLOW SWITCH, GAUGE, 2" TEST & DRAIN)
9	4" GROOVED BUTTERFLY VALVE WITH TAMPER SWITCH



RISER DETAIL
SECTION A
SCALE 1/2" = 1'-0"



BUILDING ELEVATION
SCALE 1/16" = 1'-0"

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PLAN NORTH

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

SYMBOL LEGEND

WET SYSTEM RISER
DRY SYSTEM RISER
PREACTION SYSTEM RISER
DELUGE SYSTEM RISER
ZONE CONTROL ASSEMBLY
FLANGED OS&Y VALVE WITH TAMPER SWITCH
GRV BUTTERFLY VALVE WITH TAMPER SWITCH
GROOVED CHECK VALVE
PADDLE TYPE FLOW SWITCH
APPROXIMATE LOCATION OF PIPE HANGER
PIPE STAND LOCATION
HYDRAULIC REFERENCE POINT
FIRE DEPARTMENT CONNECTION
ELECTRIC BELL
FIRE HYDRANT
FIRE HOSE CABINET
SURFACE MOUNT PIPE EXTINGUISHER
RECESSED FIRE EXTINGUISHER CABINET

DRAWING INDEX

SHEET NO.	SHEET TITLE
SP-1	NOTES, DETAILS & SITE PLAN
SP-2	1ST FLOOR PLAN
SP-3	2ND FLOOR PLAN
SP-4	3RD FLOOR PLAN

SPRINKLER HEAD LEGEND

SYM.	HEAD DESCRIPTION	MANUFACT.	RESPONSE	"K"	NPT	TEMP.	FINISH	SIN #	QTY.
	E.C. CONCEALED PENDENT 18X18	VICTAULIC	QUICK	11.2	3/4"	155°	WHITE	V1106	–
	CONCEALED PENDENT	VICTAULIC	QUICK	5.6	1/2"	155°	WHITE	V3802	–
	UPRIGHT	VICTAULIC	QUICK	5.6	1/2"	155°	BRASS	V2704	–
	SIDEWALL	VICTAULIC	QUICK	5.6	1/2"	200°	BRASS	V2710	–
	UPRIGHT	VICTAULIC	QUICK	5.6	1/2"	286°	BRASS	V2704	–
	SEMI RECESSED PENDENT	VICTAULIC	QUICK	5.6	1/2"	286°	WHITE	V2708	–
	PENDENT WITH WATER SHIELD	VICTAULIC	QUICK	5.6	1/2"	155°	CHROME	V2708	–

PROJECT TOTAL: 603 TOTAL THIS SHEET: –

approvals by
AUTHORITY HAVING JURISDICTION
design criteria
SEE NOTES

DRAWING REVISIONS

NO.	DATE	DESCRIPTION
1	3/30/2026	ISSUED FOR PERMIT
2	4/16/2026	ISSUED FOR TENDER
3	5/7/2026	ISSUED FOR ADDENDUM #3

LICENSED PROFESSIONAL ENGINEER
M. F. WALKER
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2026-05-05
PROVINCE OF ONTARIO

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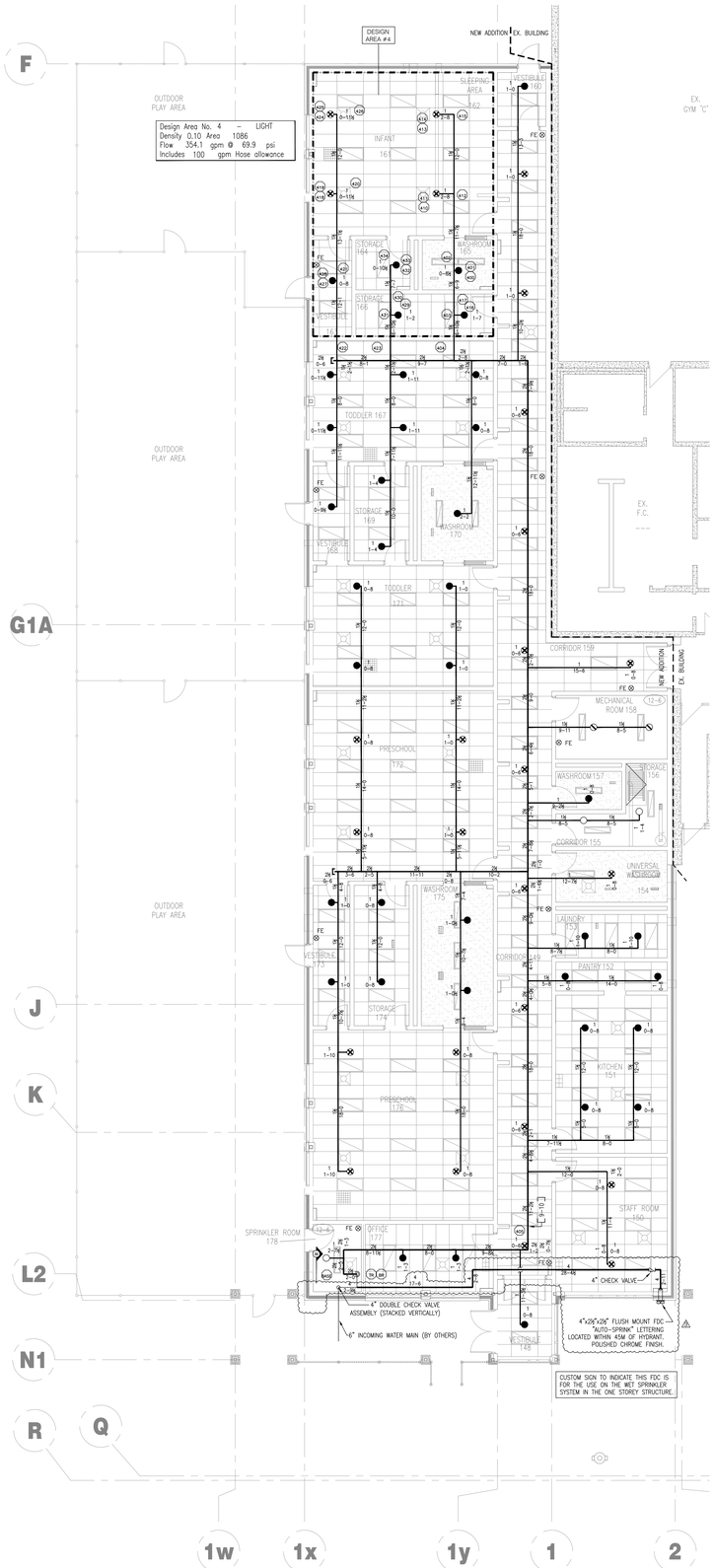
241 SOUTH SERVICE RD
UNIT 102
GRIMSBY, ON
L3M 1Y6
PHONE: 905-945-8769
FAX: 905-945-8768

PROJECT: MILTON DISTRICT HIGH SCHOOL
396 WILLIAMS AVE, MILTON, ON

DESCRIPTION: NOTES, DETAILS & SITE PLAN
FIRE SPRINKLER PLAN

CONTRACT WITH: BJC ARCHITECTS + ASSOCS. INC
CONTRACT NUMBER: 6681991

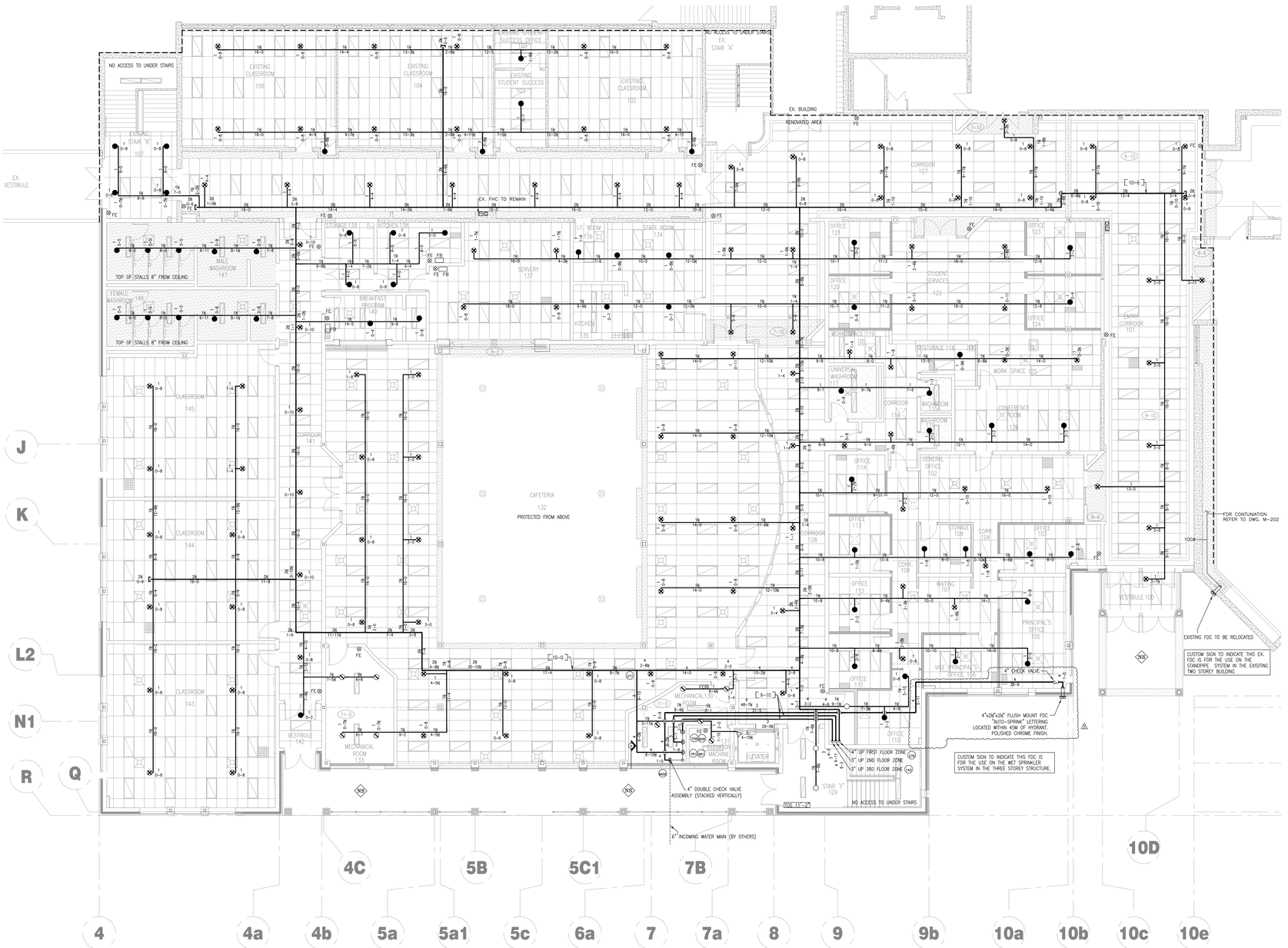
DATE:	SCALE:	DESIGN:	CHECKED BY:	DRAWING#
MAR 30, 2026	AS NOTED	ATP	GMP	SP-1 1 OF 4



FIRST FLOOR DAYCARE PLAN

SCALE 1/8" = 1'-0"

NOTES:
- [⅔] ABOVE FINISHED FLOOR PIPE ELEVATION
- [⅓] BELOW TOP OF STEEL PIPE ELEVATION
- CEILING HEIGHT 2800MM (9'-2") U.N.O



FIRST FLOOR PLAN

SCALE 1/8" = 1'-0"

NOTES:
- [⅔] ABOVE FINISHED FLOOR PIPE ELEVATION
- [⅓] BELOW TOP OF STEEL PIPE ELEVATION
- CEILING HEIGHT 2800MM (9'-2") U.N.O
- (NS) NONCOMBUSTIBLE CANOPY. SPRINKLERS NOT REQUIRED PER NFPA 13 (2019), 9.2.3.2.

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PLAN NORTH

GRAPHIC SCALE
0 1 2 4 8
SCALE 1/8"=1'-0"

SYMBOL LEGEND

WET SYSTEM RISER	HYDRAULIC REFERENCE POINT
DRY SYSTEM RISER	FIRE DEPARTMENT CONNECTION
PREACTION SYSTEM RISER	ELECTRIC BELL
DELUGE SYSTEM RISER	FIRE HYDRANT
ZONE CONTROL ASSEMBLY	FIRE HOSE CABINET
FLANGED OS&Y VALVE WITH TAMPER SWITCH	SURFACE MOUNT FIRE EXTINGUISHER
GRV BUTTERFLY VALVE WITH TAMPER SWITCH	RECESSED FIRE EXTINGUISHER CABINET
GROOVED CHECK VALVE	
PADDLE TYPE FLOW SWITCH	
APPROXIMATE LOCATION OF PIPE HANGER	
PIPE STAND LOCATION	

DRAWING INDEX

SHEET NO.	SHEET TITLE
SP-1	NOTES, DETAILS & SITE PLAN
SP-2	1ST FLOOR PLAN
SP-3	2ND FLOOR PLAN
SP-4	3RD FLOOR PLAN

SPRINKLER HEAD LEGEND

SYM.	HEAD DESCRIPTION	MANUFACT.	RESPONSE	"K"	NPT	TEMP.	FINISH	SIN #	QTY.
⊗	E.C. CONCEALED PENDENT 18X18	VICTAULIC	QUICK	11.2	3/4"	155°	WHITE	V1106	137
●	CONCEALED PENDENT	VICTAULIC	QUICK	5.6	1/2"	155°	WHITE	V3802	93
○	UPRIGHT	VICTAULIC	QUICK	5.6	1/2"	155°	BRASS	V2704	6
◁	SIDEWALL	VICTAULIC	QUICK	5.6	1/2"	200°	BRASS	V2710	1
⊘	UPRIGHT	VICTAULIC	QUICK	5.6	1/2"	286°	BRASS	V2704	11
◐	SEMI RECESSED PENDENT	VICTAULIC	QUICK	5.6	1/2"	286°	WHITE	V2708	–
⊗	PENDENT WITH WATER SHIELD	VICTAULIC	QUICK	5.6	1/2"	155°	CHROME	V2708	–

PROJECT TOTAL: 603 TOTAL THIS SHEET: 248

approvals by
AUTHORITY HAVING JURISDICTION
design criteria
SEE NOTES

DRAWING REVISIONS

NO.	DATE	DESCRIPTION
1	3/30/2026	ISSUED FOR PERMIT
2	4/16/2026	ISSUED FOR TENDER
3	5/1/2026	ISSUED FOR ADDENDUM #3

LICENSED PROFESSIONAL ENGINEER
M. F. WALKER
100100634
2026-05-05
PROVINCE OF ONTARIO

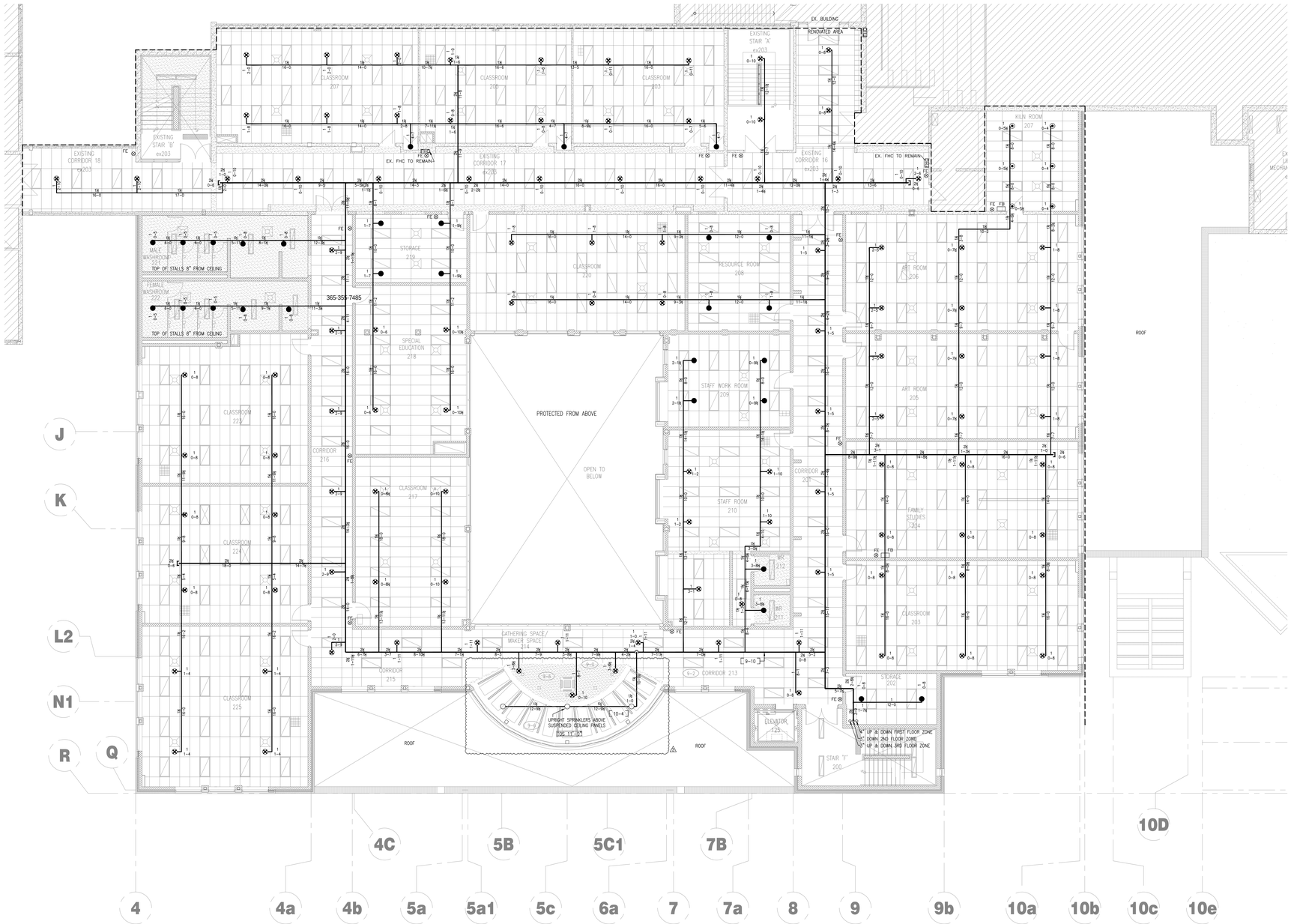
Troy
Life & Fire Safety Ltd.
241 SOUTH SERVICE RD
UNIT 102
GRIMSBY, ON
L3M 1Y6
PHONE: 905-945-8769
FAX: 905-945-8768

PROJECT: MILTON DISTRICT HIGH SCHOOL
396 WILLIAMS AVE, MILTON, ON

DESCRIPTION: FIRST FLOOR PLAN

CONTRACT WITH: BJC ARCHITECTS + ASSOCS. INC
CONTRACT NUMBER: 6681991

DATE:	SCALE:	DESIGN:	CHECKED BY:	DRAWING#
MAR 30, 2026	AS NOTED	AJP	GMP	SP-2 2 OF 4



SECOND FLOOR PLAN

SCALE 1/8" = 1'-0"

NOTES:
- [xx] ABOVE FINISHED FLOOR PIPE ELEVATION
- [r xx] BELOW TOP OF STEEL PIPE ELEVATION
- CEILING HEIGHT 2800MM (9'-2") U.N.O

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PLAN NORTH

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

SYMBOL LEGEND

- WET SYSTEM RISER
- DRY SYSTEM RISER
- PREACTION SYSTEM RISER
- DELUGE SYSTEM RISER
- ZONE CONTROL ASSEMBLY
- FLANGED OS&Y VALVE WITH TAMPER SWITCH
- GRV BUTTERFLY VALVE WITH TAMPER SWITCH
- GROOVED CHECK VALVE
- PADDLE TYPE FLOW SWITCH
- APPROXIMATE LOCATION OF PIPE HANGER
- PIPE STAND LOCATION
- HYDRAULIC REFERENCE POINT
- FIRE DEPARTMENT CONNECTION
- ELECTRIC BELL
- FIRE HYDRANT
- FIRE HOSE CABINET
- SURFACE MOUNT FIRE EXTINGUISHER
- RECESSED FIRE EXTINGUISHER CABINET

DRAWING INDEX

SHEET NO.	SHEET TITLE
SP-1	NOTES, DETAILS & SITE PLAN
SP-2	1ST FLOOR PLAN
SP-3	2ND FLOOR PLAN
SP-4	3RD FLOOR PLAN

SPRINKLER HEAD LEGEND

SYM.	HEAD DESCRIPTION	MANUFACT.	RESPONSE	K	NPT	TEMP.	FINISH	SIN #	QTY.
	E.C CONCEALED PENDENT 18X18	VICTAULIC	QUICK	11.2	3/4"	155°	WHITE	V1706	107
	CONCEALED PENDENT	VICTAULIC	QUICK	5.6	1/2"	155°	WHITE	V3802	29
	UPRIGHT	VICTAULIC	QUICK	5.6	1/2"	155°	BRASS	V2704	3
	SIDEWALL	VICTAULIC	QUICK	5.6	1/2"	200°	BRASS	V2710	--
	UPRIGHT	VICTAULIC	QUICK	5.6	1/2"	286°	BRASS	V2704	--
	SEMI RECESSED PENDENT	VICTAULIC	QUICK	5.6	1/2"	286°	WHITE	V2708	6
	PENDENT WITH WATER SHIELD	VICTAULIC	QUICK	5.6	1/2"	155°	CHROME	V2708	--

PROJECT TOTAL: 603 TOTAL THIS SHEET: 145

approvals by
AUTHORITY HAVING JURISDICTION
design criteria
SEE NOTES

DRAWING REVISIONS

NO.	DATE	DESCRIPTION
1	3/30/2026	ISSUED FOR PERMIT
2	4/16/2026	ISSUED FOR TENDER
3	5/7/2026	ISSUED FOR ADDENDUM #3

LICENSED PROFESSIONAL ENGINEER
M. F. WALKER
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2026-05-05
PROVINCE OF ONTARIO

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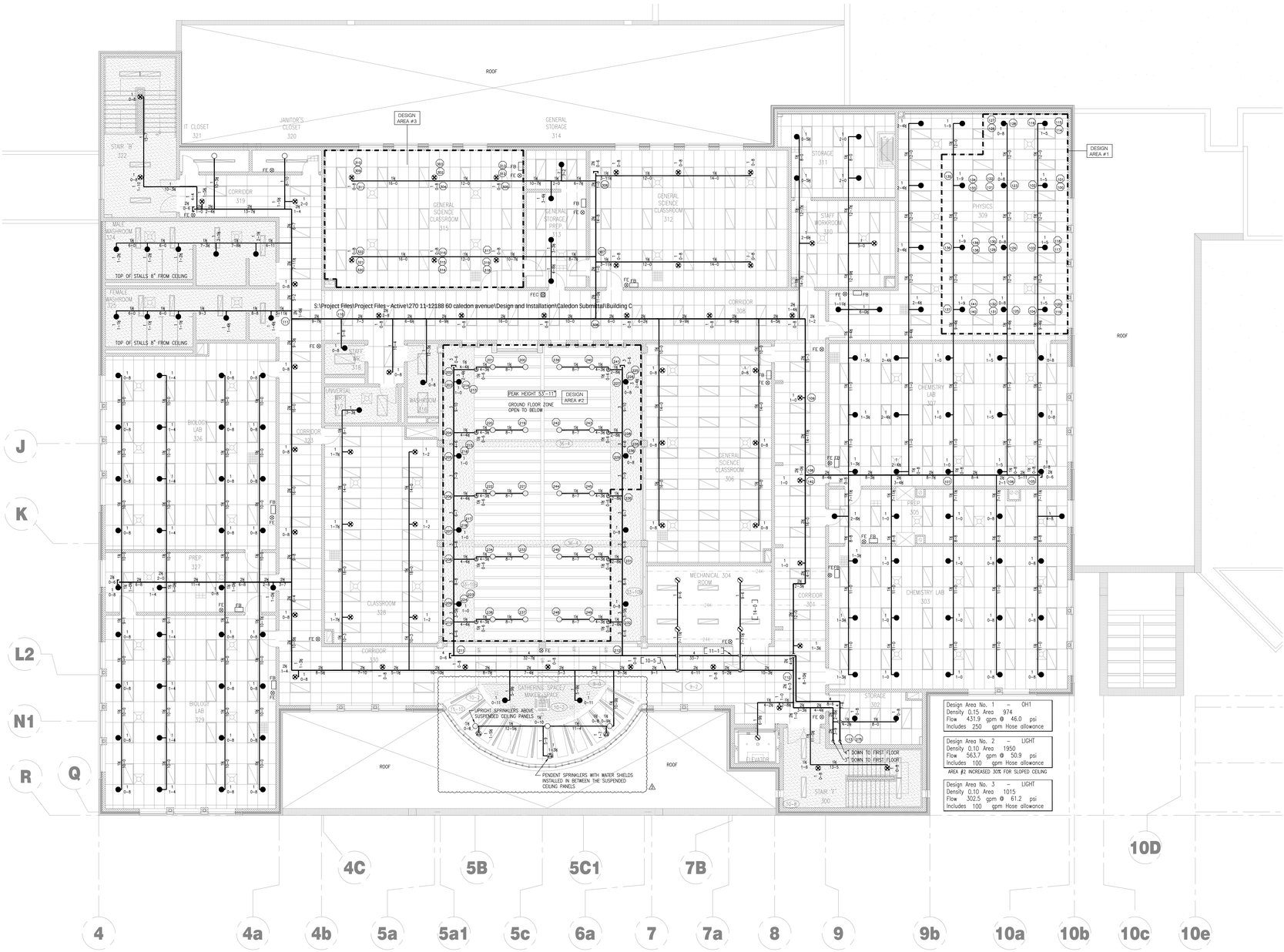
PHONE: 905-945-8769
FAX: 905-945-8768

PROJECT: MILTON DISTRICT HIGH SCHOOL
396 WILLIAMS AVE, MILTON, ON

DESCRIPTION: SECOND FLOOR PLAN

CONTRACT WITH: BJC ARCHITECTS + ASSOCS. INC
CONTRACT NUMBER: 6681991

DATE:	SCALE:	DESIGN:	CHECKED BY:	DRAWING#
MAR 30, 2026	AS NOTED	AJP	GMP	SP-2



THIRD FLOOR PLAN

SCALE 1/8" = 1'-0"

NOTES:
- E xx.3 ABOVE FINISHED FLOOR PIPE ELEVATION
- E -xx.0 BELOW TOP OF STEEL PIPE ELEVATION
- CEILING HEIGHT 2800MM (9'-2") U.N.O

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PLAN NORTH

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

SYMBOL LEGEND

- WET SYSTEM RISER
- DRY SYSTEM RISER
- PREACTION SYSTEM RISER
- DELUGE SYSTEM RISER
- ZONE CONTROL ASSEMBLY
- FLANGED DS&P VALVE WITH TAMPER SWITCH
- GRV BUTTERFLY VALVE WITH TAMPER SWITCH
- GROOVED CHECK VALVE
- PADDLE TYPE FLOW SWITCH
- APPROXIMATE LOCATION OF PIPE HANGER
- PIPE STAND LOCATION
- HYDRAULIC REFERENCE POINT
- FIRE DEPARTMENT CONNECTION
- ELECTRIC BELL
- FIRE HYDRANT
- FIRE HOSE CABINET
- SURFACE MOUNT FIRE EXTINGUISHER
- RECESSED FIRE EXTINGUISHER CABINET

DRAWING INDEX

SHEET NO.	SHEET TITLE
SP-1	NOTES, DETAILS & SITE PLAN
SP-2	1ST FLOOR PLAN
SP-3	2ND FLOOR PLAN
SP-4	3RD FLOOR PLAN

SPRINKLER HEAD LEGEND

SYM.	HEAD DESCRIPTION	MANUFACT.	RESPONSE	"K"	NPT	TEMP.	FINISH	SIN #	QTY.
	E.C. CONCEALED PENDENT 18X18	VICTAULIC	QUICK	11.2	3/4"	155°	WHITE	V1106	55
	CONCEALED PENDENT	VICTAULIC	QUICK	5.6	1/2"	155°	WHITE	V3802	122
	UPRIGHT	VICTAULIC	QUICK	5.6	1/2"	155°	BRASS	V2704	25
	SIDEWALL	VICTAULIC	QUICK	5.6	1/2"	200°	BRASS	V2710	–
	UPRIGHT	VICTAULIC	QUICK	5.6	1/2"	286°	BRASS	V2704	5
	SEMI RECESSED PENDENT	VICTAULIC	QUICK	5.6	1/2"	286°	WHITE	V2708	–
	PENDENT WITH WATER SHIELD	VICTAULIC	QUICK	5.6	1/2"	155°	CHROME	V2708	3

PROJECT TOTAL: 603 TOTAL THIS SHEET: 210

approvals by
AUTHORITY HAVING JURISDICTION
design criteria
SEE NOTES

DRAWING REVISIONS

NO.	DATE	DESCRIPTION
1	3/30/2026	ISSUED FOR PERMIT
2	4/16/2026	ISSUED FOR TENDER
3	5/7/2026	ISSUED FOR ADDENDUM #3

LICENSED PROFESSIONAL ENGINEER
M. F. WALKER
100100634
2026-05-05
PROVINCE OF ONTARIO

Troy
Life & Fire Safety Ltd.
241 SOUTH SERVICE RD
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GRIMSBY, ON
L3M 1Y6
PHONE: 905-945-8769
FAX: 905-945-8768

PROJECT: MILTON DISTRICT HIGH SCHOOL
396 WILLIAMS AVE, MILTON, ON

DESCRIPTION: THIRD FLOOR PLAN

CONTRACT WITH: BJC ARCHITECTS + ASSOCS. INC
CONTRACT NUMBER: 6681991

DATE:	SCALE:	DESIGN:	CHECKED BY:	DRAWING#
MAR 30, 2026	AS NOTED	AJP	GMP	SP-4 of SP-4