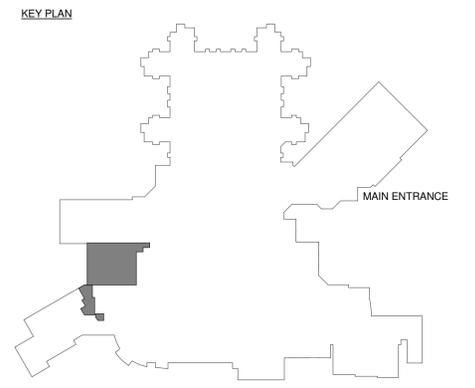
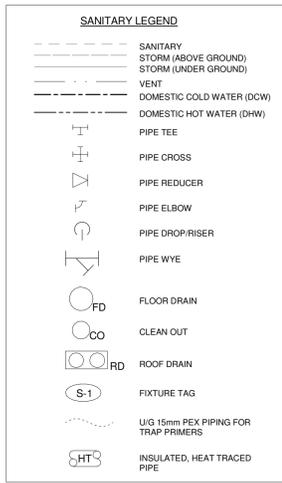
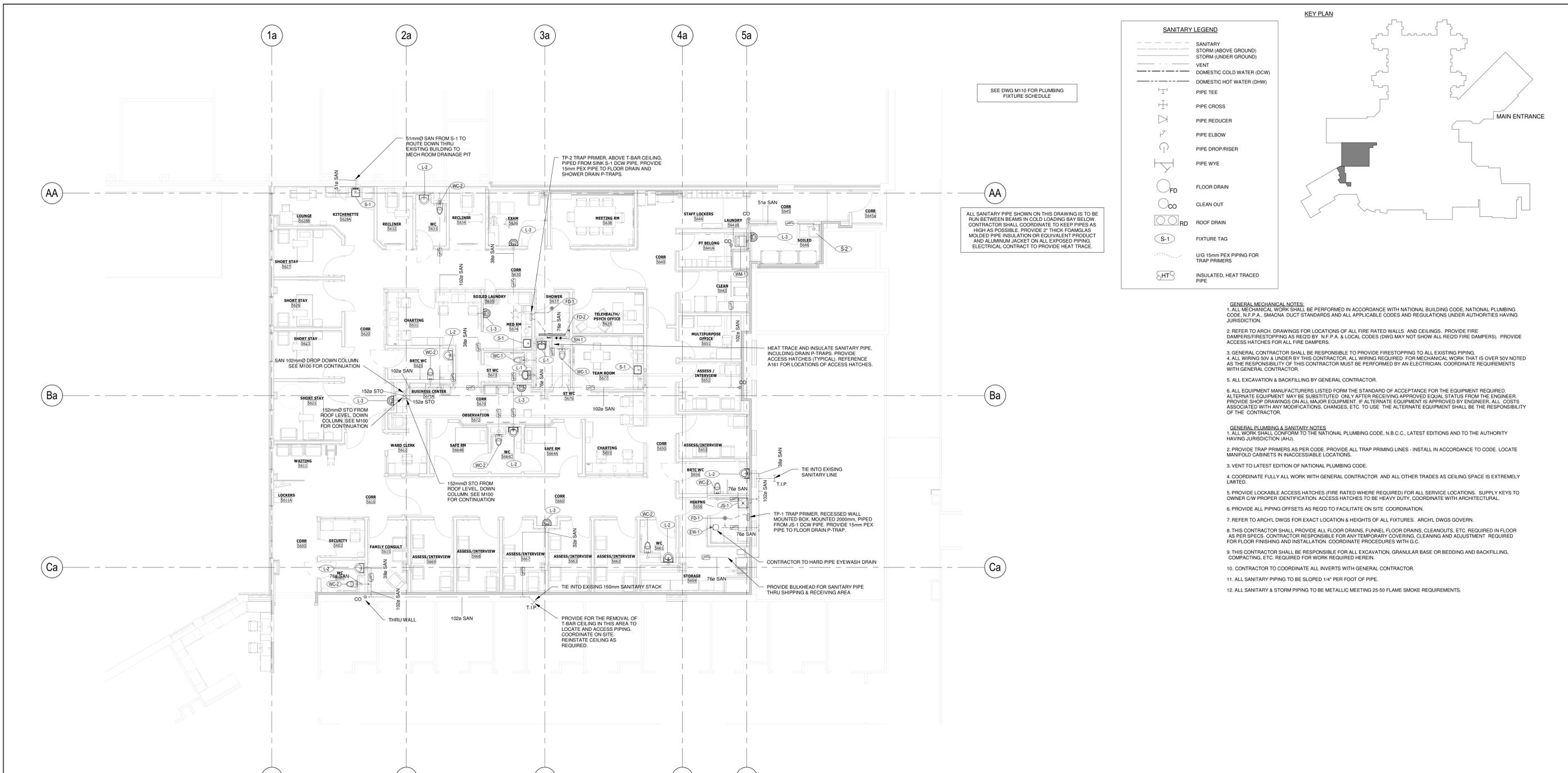


- GENERAL MECHANICAL NOTES:**
1. ALL MECHANICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH NATIONAL BUILDING CODE, NATIONAL PLUMBING CODE, N.F.P.A., SMACNA, DUCT STANDARDS AND ALL APPLICABLE CODES AND REGULATIONS UNDER AUTHORITIES HAVING JURISDICTION.
  2. REFER TO ARCH. DRAWINGS FOR LOCATIONS OF ALL FIRE RATED WALLS AND CEILINGS. PROVIDE FIRE DAMPERS/FIRESTOPPING AS REQ'D BY N.F.P.A. & LOCAL CODES (DWG MAY NOT SHOW ALL REQ'D FIRE DAMPERS). PROVIDE ACCESS HATCHES FOR ALL FIRE DAMPERS.
  3. GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE FIRESTOPPING TO ALL EXISTING PIPING.
  4. ALL WIRING 50V & UNDER BY THIS CONTRACTOR. ALL WIRING REQUIRED FOR MECHANICAL WORK THAT IS OVER 50V NOTED AS THE RESPONSIBILITY OF THIS CONTRACTOR MUST BE PERFORMED BY AN ELECTRICIAN. COORDINATE REQUIREMENTS WITH GENERAL CONTRACTOR.
  5. ALL EXCAVATION & BACKFILLING BY GENERAL CONTRACTOR.
  6. ALL EQUIPMENT MANUFACTURERS LISTED FORM THE STANDARD OF ACCEPTANCE FOR THE EQUIPMENT REQUIRED. ALTERNATE EQUIPMENT MAY BE SUBSTITUTED ONLY AFTER RECEIVING APPROVED EQUAL STATUS FROM THE ENGINEER. PROVIDE SHOP DRAWINGS ON ALL MAJOR EQUIPMENT. IF ALTERNATE EQUIPMENT IS APPROVED BY ENGINEER, ALL COSTS ASSOCIATED WITH ANY MODIFICATIONS, CHANGES, ETC. TO USE THE ALTERNATE EQUIPMENT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- GENERAL PLUMBING & SANITARY NOTES**
1. ALL WORK SHALL CONFORM TO THE NATIONAL PLUMBING CODE, N.B.C.C., LATEST EDITIONS AND TO THE AUTHORITY HAVING JURISDICTION (AHJ).
  2. PROVIDE TRAP PRIMERS AS PER CODE. PROVIDE ALL TRAP PRIMING LINES - INSTALL IN ACCORDANCE TO CODE. LOCATE MANIFOLD CABINETS IN INACCESSIBLE LOCATIONS.
  3. VENT TO LATEST EDITION OF NATIONAL PLUMBING CODE.
  4. COORDINATE FULLY ALL WORK WITH GENERAL CONTRACTOR AND ALL OTHER TRADES AS CEILING SPACE IS EXTREMELY LIMITED.
  5. PROVIDE LOCKABLE ACCESS HATCHES (FIRE RATED WHERE REQUIRED) FOR ALL SERVICE LOCATIONS. PROVIDE TAMPER PROOF, LOCKABLE ACCESS HATCHES (FIRE RATED WHERE REQUIRED) IN PATIENT ACCESSIBLE SPACES. SUPPLY KEYS TO OWNER C/W PROPER IDENTIFICATION. ACCESS HATCHES TO BE HEAVY DUTY. COORDINATE WITH ARCHITECTURAL.
  6. PROVIDE ALL PIPING OFFSETS AS REQ'D TO FACILITATE ON SITE COORDINATION.
  7. REFER TO ARCH'L DWGS FOR EXACT LOCATION & HEIGHTS OF ALL FIXTURES. ARCH'L DWGS GOVERN.
  8. THIS CONTRACTOR SHALL PROVIDE ALL FLOOR DRAINS, FUNNEL FLOOR DRAINS, CLEANOUTS, ETC. REQUIRED IN FLOOR AS PER SPECS. CONTRACTOR RESPONSIBLE FOR ANY TEMPORARY COVERING, CLEANING AND ADJUSTMENT REQUIRED FOR FLOOR FINISHING AND INSTALLATION. COORDINATE PROCEDURES WITH G.C.
  9. CONTRACTOR TO COORDINATE ALL INVERTS WITH GENERAL CONTRACTOR.
  10. ALL SANITARY PIPING TO BE SLOPED 1/4" PER FOOT OF PIPE.
  11. ALL SANITARY & STORM PIPING TO BE METALLIC MEETING 25-50 FLAME SMOKE REQUIREMENTS.

**1** Level 100 Plumbing - Domestic Water, Sanitary & Storm  
 M100 1:100

<p>Suite 201, 85 Fitzroy Street Charlottetown, P.E.I., Canada, C1A 1R6 Phone: (902) 368-2300 www.colesassociates.com</p>			<p>Client <b>Prince Edward Island</b> CANADA</p>	<p>Health &amp; Wellness PO Box 2000 Charlottetown Prince Edward Island Canada C1A 7N8</p>	<p>Project Title Queen Elizabeth Hospital Mental Health &amp; Addictions Emergency Department &amp; Short Stay Unit</p>	<p>Sheet Title Level 100 Plumbing - Domestic Water, Sanitary &amp; Storm</p>	No.	Description	Date	Date:	Revision
							0	Issued for Tender	2022-03-22	2022-03-22	A.E.M., E.I.T.
							<p>Project Number: <b>211025</b></p>				
							<p>Drawing Number: <b>M100</b></p>				

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SEE DWG M110 FOR PLUMBING FIXTURE SCHEDULE

ALL SANITARY PIPE SHOWN ON THIS DRAWING IS TO BE RUN BETWEEN BEAMS IN COLD LOADING BAY BELOW. CONTRACTOR SHALL COORDINATE TO KEEP PIPES AS HIGH AS POSSIBLE. PROVIDE 2" THICK FOAMGLAS MOLDED PIPE INSULATION OR EQUIVALENT PRODUCT AND ALUMINUM JACKET ON ALL EXPOSED PIPING. ELECTRICAL CONTRACT TO PROVIDE HEAT TRACE.

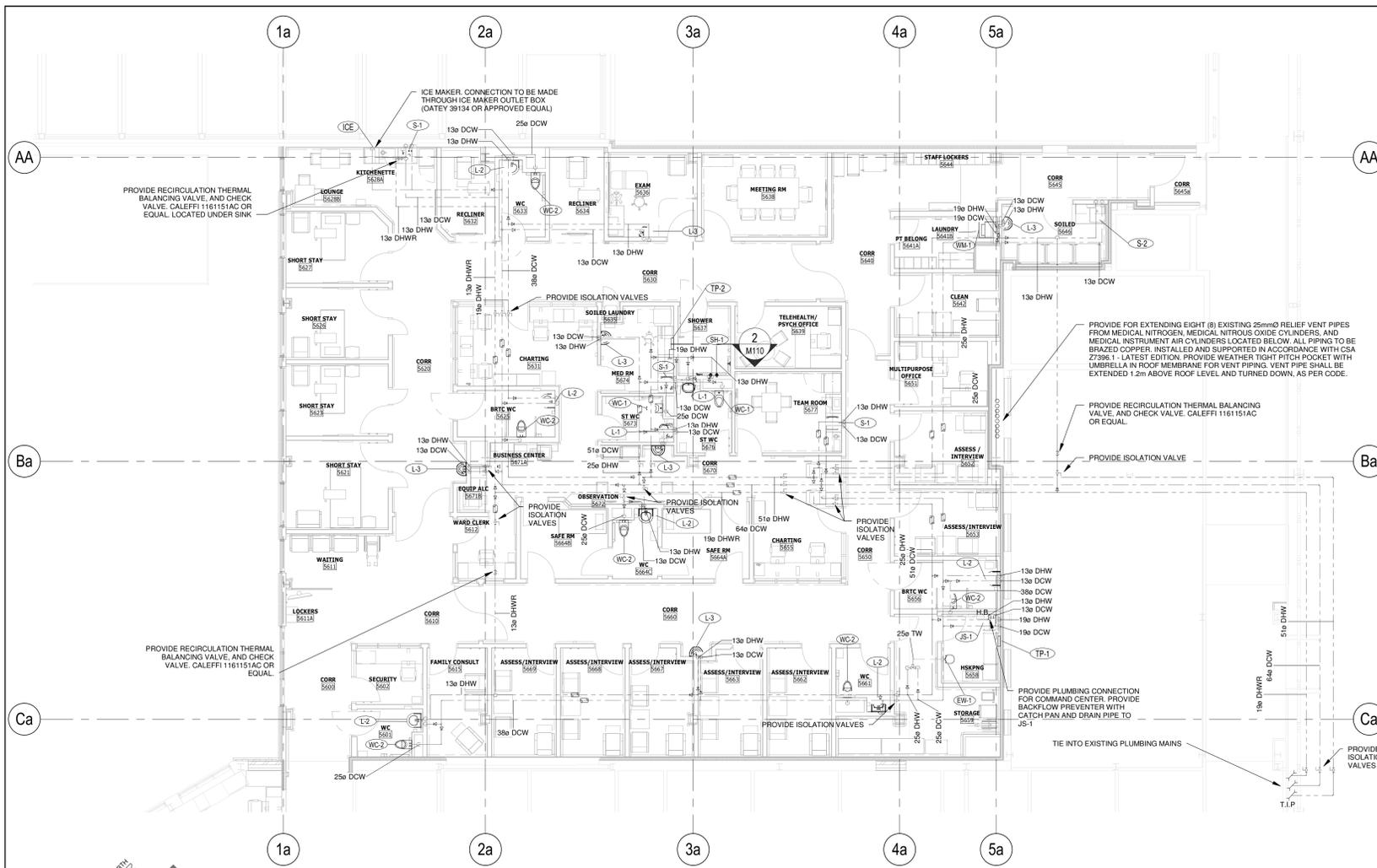
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  9. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXCAVATION, GRANULAR BASE OR BEDDING AND BACKFILLING, COMPACTING, ETC. REQUIRED FOR WORK REQUIRED HEREIN.
  10. CONTRACTOR TO COORDINATE ALL INVERTS WITH GENERAL CONTRACTOR.
  11. ALL SANITARY PIPING TO BE SLOPED 1/4" PER FOOT OF PIPE.
  12. ALL SANITARY & STORM PIPING TO BE METALLIC MEETING 25-50 FLAME SMOKE REQUIREMENTS.

PROJECT NORTH  
 1 M101 Level 200 Plumbing - Sanitary & Storm  
 1:100

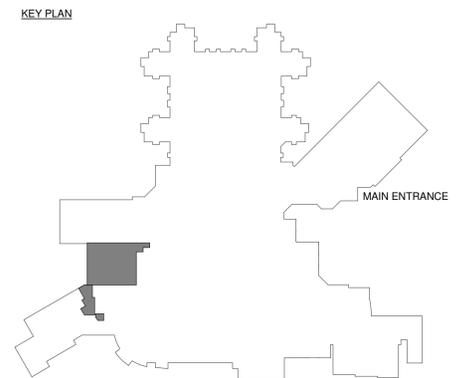
<p>Suite 201, 85 Fitzroy Street        Charlottetown, P.E.I., Canada, C1A 1R6        Phone: (902) 368-2300        www.colesassociates.com</p>			Client <p>Health &amp; Wellness        PO Box 2000        Charlottetown        Prince Edward Island        Canada C1A 7N8</p>	Project Title Queen Elizabeth Hospital Mental Health & Addictions Emergency Department & Short Stay Unit	Sheet Title Level 200 Plumbing - Sanitary & Storm	No.	Description	Date	Date:	Revision
						0	Issued for Tender	2022-03-22	2022-03-22	0
						Date: 2022-03-22 Dwn By: A.E.M., E.I.T. Ck'd By: S.W.W., P.ENG Project Number: <b>211025</b> Drawing Number: <b>M101</b>				

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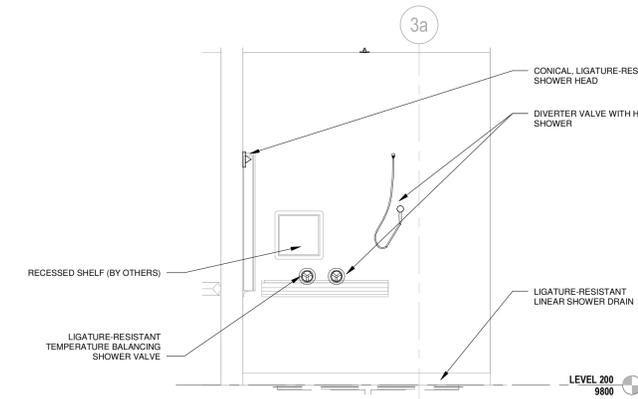
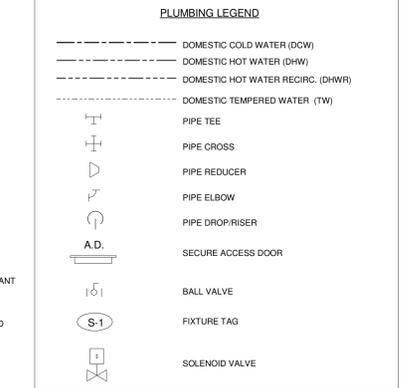




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  4. PROVIDE LOCKABLE ACCESS HATCHES (FIRE RATED WHERE REQUIRED) FOR ALL SERVICE LOCATIONS. SUPPLY KEYS TO OWNER CW PROPER IDENTIFICATION. ACCESS HATCHES TO BE HEAVY DUTY, MAXIMUM SECURITY DETENTION GRADE DOORS. COORDINATE WITH ARCHITECTURAL.
  5. PROVIDE ALL PIPING OFFSETS AS REQ'D TO FACILITATE ON SITE COORDINATION.
  6. REFER TO ARCH'D DWGS FOR EXACT LOCATION & HEIGHTS OF ALL FIXTURES. ARCH'D DWGS GOVERN.
  7. ALL DOMESTIC WATER PIPING, HYDRONIC PIPING, SANITARY VENTS, STORM PIPING TO BE ROUTED CONCEALED IN WALLS.



**1 Level 200 Plumbing - Domestic Water**  
1:100

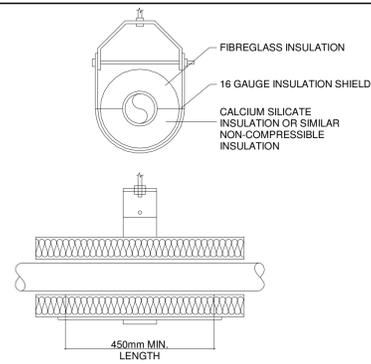
**2 SHOWER - SECTION VIEW**  
1:25

**PLUMBING FIXTURE SCHEDULE**

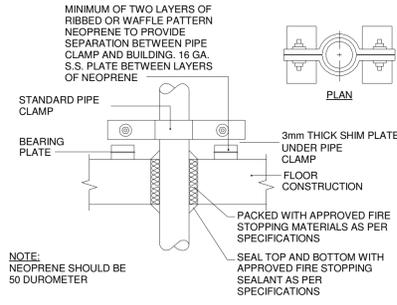
TAG	FIXTURE TYPE	DWV (mm)	DCW (mm)	DHW (mm)	DTW (mm)	MATERIAL	MANUFACTURER	MODEL	TRIM TYPE	BASIS OF DESIGN	NOTES
CO-1	CLEANOUT, TAMPER PROOF FASTENERS	80	-	-	-	CAST IRON	ZURN	Z1400-B	-	-	TAMPER PROOF SCREWS, RECESSED COVER FOR RUBERIZED SHEET FLOORING
EW-1	WALL MOUNTED, EMERGENCY EYE WASH STATION	38	25	25	25	STAINLESS STEEL	GUARDIAN	G1891-T	-	LAWLER 911 EF	LOCKABLE BALL VALVES, INLET CHECK VALVES, THERMOMETER IN CABINET
FD-1	FLOOR DRAIN, SECURITY TYPE	50	-	-	-	STAINLESS STEEL	ACORN	WHFD	-	-	FLOOR DRAIN & SHOWER DRAIN - LIGATURE RESISTANT, ROUND 6"Ø, TAMPER PROOF
FD-2	LIGATURE RESISTANT LINEAR FLOOR DRAIN, WITH FLASHING FLANGE	50	-	-	-	STAINLESS STEEL	WHITEHALL	WHLD-60-F	-	-	1524mm LINEAR FLOOR DRAIN, LIGATURE RESISTANT, TAMPER PROOF & SECURE FASTENERS
ICE	ICE MAKER	-	15	-	-	-	-	-	-	OATLEY 39134, WATTS LP90 (BACKFLOW PREVENTER)	1/4 TURN COPPER, POLYSTYRENE ICE MAKER OUTLET BOX
JS-1	FLOOR MOUNTED, TERRAZZO SQUARE BASIN	80	20	20	-	TERRAZZO	STERN-WILLIAMS	HL-1810	-	CHICAGO FAUCETS 897-317-CP	SS BACKSPASH, AND CAPS, CW HOSE AND WALL HOOK
L-1	WALL HUNG, RECTANGULAR BASIN W/ SINGLE HOLE FAUCET LEDGE	32	15	15	-	VIT. CHINA	AMERICAN STANDARD	0955.001.EC	ELECTRONIC FAUCET, LAMINAR FLOW, BATTERY OPERATED	CHICAGO FAUCETS 116.223.AB.1	PROVIDE CONCEALED ARM CARRIER, STAINLESS STEEL HOSES, CHROME PLATED 1/4 TURN SHUTOFFS, ESCUTCHEONS, SHROUD. FAUCET TO BE SUPPLIED BY OWNER, INSTALLED BY THE CONTRACTOR.
L-2	WALL HUNG, SECURITY BASIN	32	15	15	-	SOLID SURFACE	WHITEHALL	WHD-BSN	LIGATURE RESISTANT, LAMINAR FLOW, ELECTRONIC FAUCET, HARDWIRED, 0.5 GPM	WHITEHALL WH375	PROVIDE CONCEALED ARM CARRIER, STAINLESS STEEL HOSES, SHUTOFFS, ESCUTCHEONS, P-TRAP, DRAIN COVER, TAMPER PROOF & SECURE FASTENERS
L-3	WALL HUNG, DEEP BOWL BASIN W/ SINGLE HOLE FAUCET LEDGE	32	15	15	-	SOLID SURFACE	WHITEHALL	4150-SQ-BAT	LAMINAR FLOW, ELECTRONIC FAUCET, BATTERY OPERATED, 1.5 GPM	CHICAGO FAUCETS 116.223.AB.1	PROVIDE BELOW DECK THERMOSTATIC MIXING VALVE, CONCEALED FIXTURE CARRIER, STAINLESS STEEL HOSES, SHUTOFFS, ESCUTCHEONS, TRAP ENCLOSURE, TUBULAR P-TRAP, TAMPER PROOF & SECURE FASTENERS. FAUCET TO BE SUPPLIED BY OWNER, INSTALLED BY THE CONTRACTOR.
L-4	WALL HUNG, HANDWASH BASIN	32	15	15	-	VIT. CHINA	AMERICAN STANDARD	0356.915.020	LAMINAR FLOW, MANUAL FAUCET, GOOSENECK SPOUT, BLADE HANDLES	DELTA 27C2944	PROVIDE WALL ARM CARRIER, STAINLESS STEEL HOSES, CHROME PLATED 1/4 TURN SHUTOFFS, ESCUTCHEONS, SEALED OVERFLOW
RD-1	FLOOR REGULATING ROOF DRAIN	102	-	-	-	CAST IRON	JAY R. SMITH	1850	-	-	ROOF DRAIN AND OVERFLOW DRAIN, UNDER DECK CLAMP, BEARING PADS, FLASHING CLAMP RING, INTEGRAL GROUND STOPS, POLYETHYLENE DOME
S-1	COUNTER TOP MOUNT, SINGLE BOWL SINK	38	15	15	-	STAINLESS STEEL	KINDRED	QSL2020@B3	DECK MOUNT SINK FAUCET, WITH GOOSENECK SPOUT, LAMINAR FLOW OUTLET, TWO BLADE HANDLES	DELTA 23C674	PROVIDE WITH 1/4 TURN SHUTOFFS, STAINLESS STEEL HOSES, ESCUTCHEONS, P-TRAP, SHROUD, VANDAL RESISTANT
S-2	SINGLE BOWL SINK (TRIM AND SUPPLIES ONLY)	38	15	15	-	-	-	-	DECK MOUNT SINK FAUCET WITH GOOSENECK SPOUT, LAMINAR FLOW OUTLET, TWO BLADE HANDLES	DELTA 23C674	PROVIDE RIGID HORIZONTAL NIPPLES 10mm x 127mm LONG, 1 P.S. HEAVY ALL BRASS ANGLE STOPS WITH WHEEL HANDLE STOPS, ESCUTCHEONS AND FLEXIBLE COPPER RISERS. P-TRAP POLISHED CAST BRASS ADJUSTABLE BODY 38mm WITH CLEANOUT PLUG, SEAMLESS BRASS WALL BEND AND ESCUTCHEON
SH-1	LIGATURE RESISTANT, SHOWER WITH WALL MOUNTED SHOWER HEAD AND SHOWER HOSE	80	15	15	-	TILE	-	-	LIGATURE RESISTANT, WALL MOUNTED SHOWER HEAD, WITH SEPERATE HAND SHOWER HOSE & CONTROLS	ACORN SV16, CSH15, WHCHS (HOSE)	PROVIDE LIGATURE RESISTANT, SECURE, WALL MOUNTED, DIVERTING CONTROL VALVE, THERMOSTATIC MIXING VALVE, HAND SHOWER HOSE TO HAVE POSITIVE SHUTOFF ON REMOVAL.
TP-1	TRAP PRIMER	-	15	-	-	-	MIFAB	MR-ENC-AG	-	-	PROVIDE PRESSURE TYPE TRAP PRIMER IN A RECESSED WALL MOUNTED BOX CW SHUTOFF VALVE AND OPTIONAL COVER
TP-2	TRAP PRIMER	-	15	-	-	-	MIFAB	MRS500NPR, MIGAP-NPR, MI, DU-500	-	-	PROVIDE PRESSURE TYPE TRAP PRIMER IN A RECESSED WALL MOUNTED BOX CW SHUTOFF VALVE AND OPTIONAL COVER
WC-1	WALL HUNG, BARRIER-FREE, FLUSH VALVE STYLE WATER CLOSET	80	15	15	-	VIT. CHINA	AMERICAN STANDARD	3351.101.020	EXPOSED, ELECTRONIC FLUSH VALVE, BATTERY OPERATED	SLOAN G2 OPTIMA 8111-1.6-CP	PROVIDE TOILET SEAT, CHAIR CARRIER
WC-2	FLOOR MOUNTED, LIGATURE RESISTANT, BARRIER-FREE, SIPHON JET TOILET	80	38	-	-	STAINLESS STEEL	WHITEHALL	WH2142ADA-W-EGE10	MANUAL CONCEALED PUSH BUTTON FLUSH VALVE, 1.6 GPF	-	CW FLOOR OUTLET 12" ROUGH-IN AND WH-URSC-WHITE LIGATURE RESISTANT ABS TOILET SEAT COVER
WM-1	WASHING MACHINE CONNECTION BOX	-	20	20	-	-	OATEY	38995	-	-	PROVIDE METAL BOX, TAMPER RESISTANT FASTENERS, WATER HAMMER ARRESTORS, 1/4 TURN VALVES, 2" SANITARY TAILPIPE. PROVIDE FIELD FABRICATED WIRE GUARD OVER TOP OF BOX TO PREVENT ACCESS. PROVIDE MOCK UP FOR APPROVAL.

NOTE: ALL FIXTURES TO BE SUPPLIED WITH TYPICAL TRIM (P-TRAPS, ANGLE STOPS, ETC)

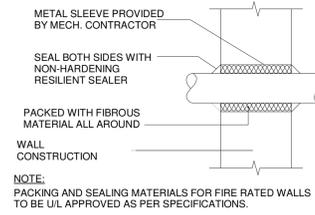
<p>COLES Architecture + Engineering + Project Management</p>	<p>PARKIN ARCHITECTS LIMITED</p>	<p>PROFESSIONAL ENGINEER Sean W. Wheeler No. 657 PRICE EDWARD ISLAND</p>	<p>Client <b>Prince Edward Island</b> Health &amp; Wellness PO Box 2000 Charlottetown Prince Edward Island Canada C1A 7N8</p>	<p>Project Title <b>Queen Elizabeth Hospital Mental Health &amp; Addictions Emergency Department &amp; Short Stay Unit</b></p>	<p>Sheet Title <b>Level 200 Plumbing - Domestic Water</b></p>	No.	Description	Date	Date	Date	Revision
						0	Issued for Tender	2022-03-22	2022-03-22	2022-03-22	0



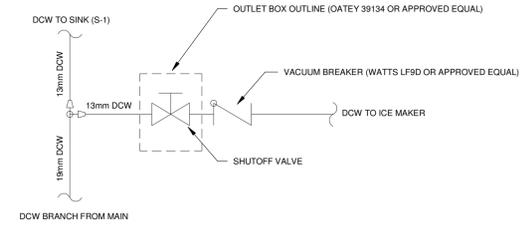
1  
M120  
NTS  
PIPE HANGER INSULATION DETAIL



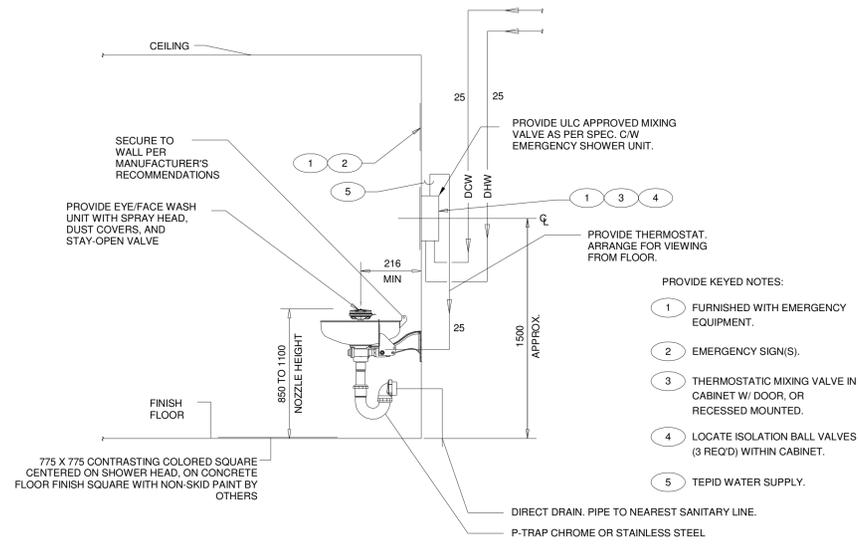
2  
M120  
NTS  
PIPE THRU FLOOR PENETRATION



3  
M120  
NTS  
PIPE THRU WALL PENETRATION DETAIL



4  
M120  
NTS  
ICE MAKER CONNECTION DETAIL



5  
M120  
NTS  
TYP. EYEWASH STATION DETAIL

- PROVIDE KEYED NOTES:
- 1 FURNISHED WITH EMERGENCY EQUIPMENT.
  - 2 EMERGENCY SIGN(S).
  - 3 THERMOSTATIC MIXING VALVE IN CABINET W/ DOOR, OR RECESSED MOUNTED.
  - 4 LOCATE ISOLATION BALL VALVES (3 REQ'D) WITHIN CABINET.
  - 5 TEPID WATER SUPPLY.

**COLES**  
Architecture + Engineering + Project Management

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Charlottetown, P.E.I., Canada, C1A 1R6  
Phone: (902) 368-2300  
www.colesassociates.com

**PARKIN**  
ARCHITECTS LIMITED

PROFESSIONAL ENGINEER  
Sean W. Wheeler  
No. 657  
PRINCE EDWARD ISLAND

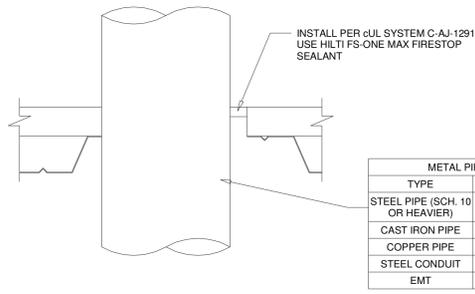
Client  
**Prince Edward Island**  
CANADA

Health & Wellness  
PO Box 2000  
Charlottetown  
Prince Edward Island  
Canada C1A 7N8

Project Title  
Queen Elizabeth Hospital  
Mental Health & Addictions  
Emergency Department & Short Stay Unit

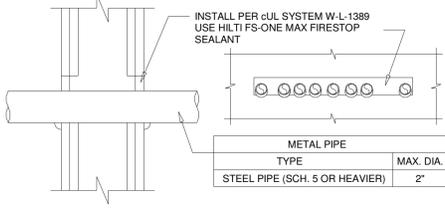
Sheet Title  
Plumbing Details

No.	Description	Date	Date:	Revision
0	Issued for Tender	2022-03-22	2022-03-22	0
			Drawn By: A.E.M., E.I.T.	
			Checked By: S.W.W., P.ENG	
			Project Number:	211025
			Drawing Number:	M120



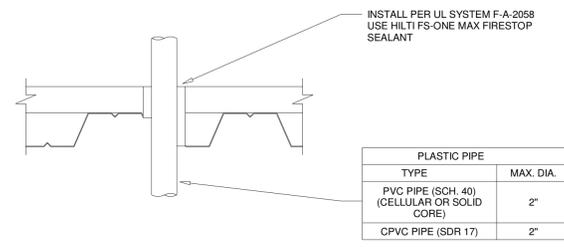
METAL PIPE	
TYPE	MAX. DIA.
STEEL PIPE (SCH. 10 OR HEAVIER)	30"
CAST IRON PIPE	30"
COPPER PIPE	6"
STEEL CONDUIT	6"
EMT	4"

1 METAL PIPE THRU CONCRETE OVER METAL DECKING  
M121



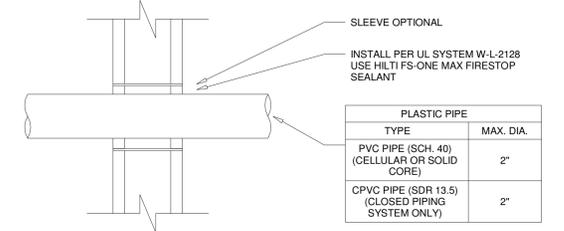
METAL PIPE	
TYPE	MAX. DIA.
STEEL PIPE (SCH. 5 OR HEAVIER)	2"

2 MULTIPLE METAL PIPE THRU GYPSUM WALL ASSEMBLY  
M121



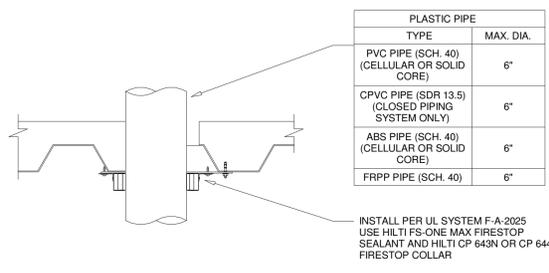
PLASTIC PIPE	
TYPE	MAX. DIA.
PVC PIPE (SCH. 40) (CELLULAR OR SOLID CORE)	2"
CPVC PIPE (SDR 17)	2"

3 PLASTIC PIPE (UP TO 2") THRU CONCRETE OVER METAL DECKING  
M121



PLASTIC PIPE	
TYPE	MAX. DIA.
PVC PIPE (SCH. 40) (CELLULAR OR SOLID CORE)	2"
CPVC PIPE (SDR 13.5) (CLOSED PIPING SYSTEM ONLY)	2"

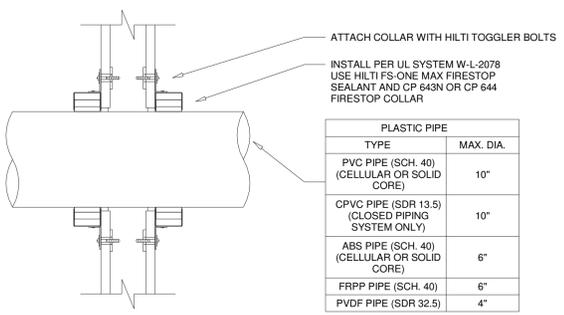
4 PLASTIC PIPE (UP TO 2") THRU GYPSUM WALL ASSEMBLY (1 HR.)  
M121



PLASTIC PIPE	
TYPE	MAX. DIA.
PVC PIPE (SCH. 40) (CELLULAR OR SOLID CORE)	6"
CPVC PIPE (SDR 13.5) (CLOSED PIPING SYSTEM ONLY)	6"
ABS PIPE (SCH. 40) (CELLULAR OR SOLID CORE)	6"
FRPP PIPE (SCH. 40)	6"

INSTALL PER UL SYSTEM F-A-2025 USE HILTI FS-ONE MAX FIRESTOP SEALANT AND HILTI CP 643N OR CP 644 FIRESTOP COLLAR

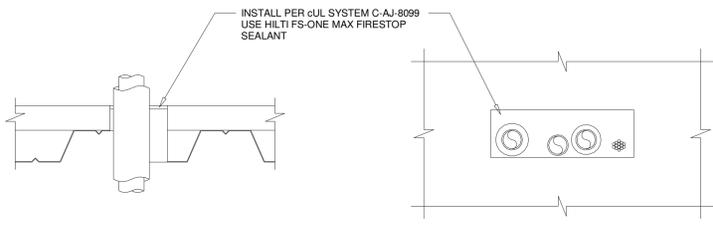
5 PLASTIC PIPE (UP TO 6") THRU CONCRETE OVER METAL DECKING  
M121



PLASTIC PIPE	
TYPE	MAX. DIA.
PVC PIPE (SCH. 40) (CELLULAR OR SOLID CORE)	10"
CPVC PIPE (SDR 13.5) (CLOSED PIPING SYSTEM ONLY)	10"
ABS PIPE (SCH. 40) (CELLULAR OR SOLID CORE)	6"
FRPP PIPE (SCH. 40)	6"
PVDF PIPE (SDR 32.5)	4"

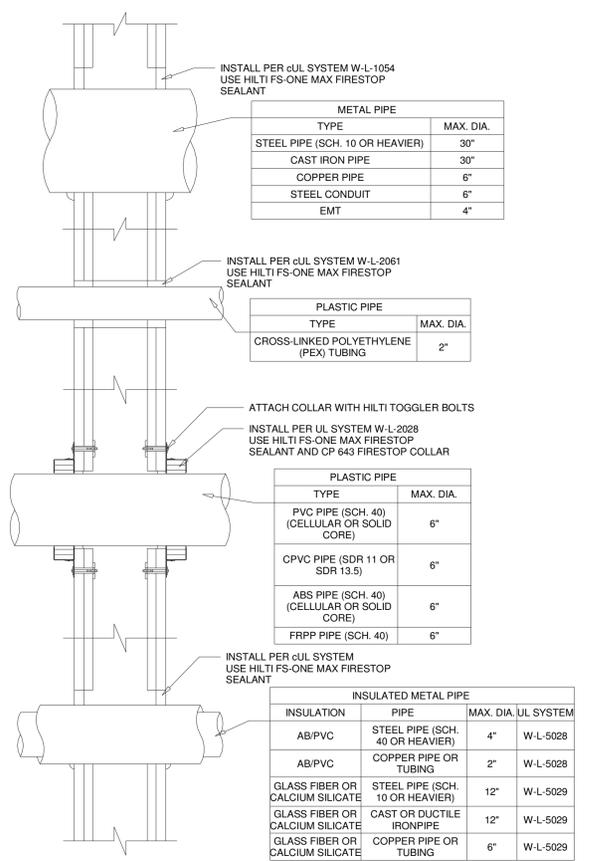
INSTALL PER UL SYSTEM W-L-2078 USE HILTI FS-ONE MAX FIRESTOP SEALANT AND CP 643N OR CP 644 FIRESTOP COLLAR

6 PLASTIC PIPE (UP TO 10") THRU GYPSUM WALL ASSEMBLY (1 HR.)  
M121



INSTALL PER cUL SYSTEM C-AJ-8099 USE HILTI FS-ONE MAX FIRESTOP SEALANT

7 MULTIPLE PENETRATIONS THRU CONCRETE OVER METAL DECKING  
M121



METAL PIPE	
TYPE	MAX. DIA.
STEEL PIPE (SCH. 10 OR HEAVIER)	30"
CAST IRON PIPE	30"
COPPER PIPE	6"
STEEL CONDUIT	6"
EMT	4"

PLASTIC PIPE	
TYPE	MAX. DIA.
CROSS-LINKED POLYETHYLENE (PEX) TUBING	2"

PLASTIC PIPE	
TYPE	MAX. DIA.
PVC PIPE (SCH. 40) (CELLULAR OR SOLID CORE)	6"
CPVC PIPE (SDR 11 OR SDR 13.5)	6"
ABS PIPE (SCH. 40) (CELLULAR OR SOLID CORE)	6"
FRPP PIPE (SCH. 40)	6"

INSULATED METAL PIPE			
INSULATION	PIPE	MAX. DIA.	UL SYSTEM
AB/PVC	STEEL PIPE (SCH. 40 OR HEAVIER)	4"	W-L-5028
AB/PVC	COPPER PIPE OR TUBING	2"	W-L-5028
GLASS FIBER OR CALCIUM SILICATE	STEEL PIPE (SCH. 10 OR HEAVIER)	12"	W-L-5029
GLASS FIBER OR CALCIUM SILICATE	CAST OR DUCTILE IRON PIPE	12"	W-L-5029
GLASS FIBER OR CALCIUM SILICATE	COPPER PIPE OR TUBING	6"	W-L-5029

8 PENETRANT THRU GYPSUM WALL ASSEMBLY  
M121 NTS

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**PARKIN**  
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PROFESSIONAL ENGINEER  
Sean W. Wheeler  
No. 657  
PRINCE EDWARD ISLAND

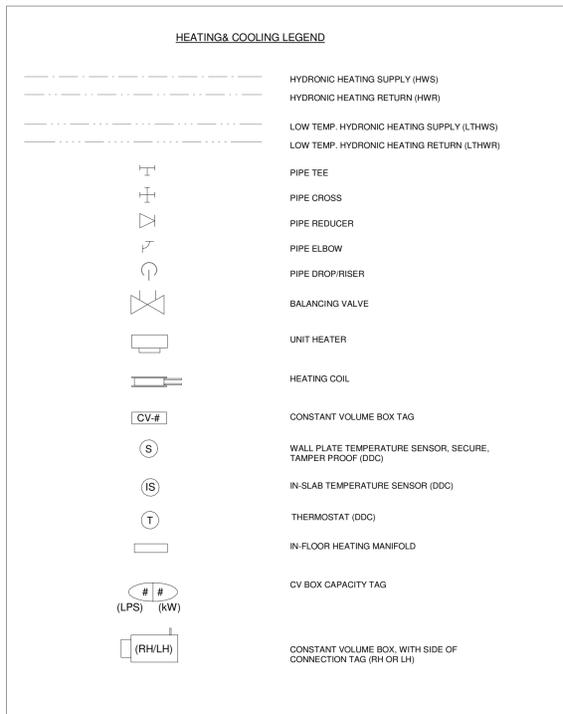
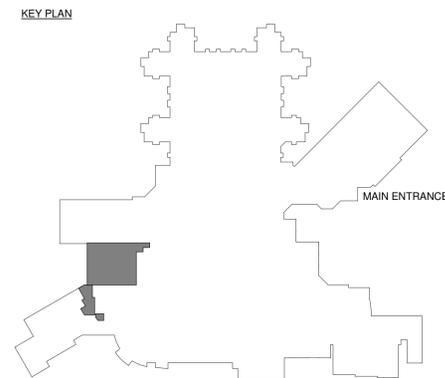
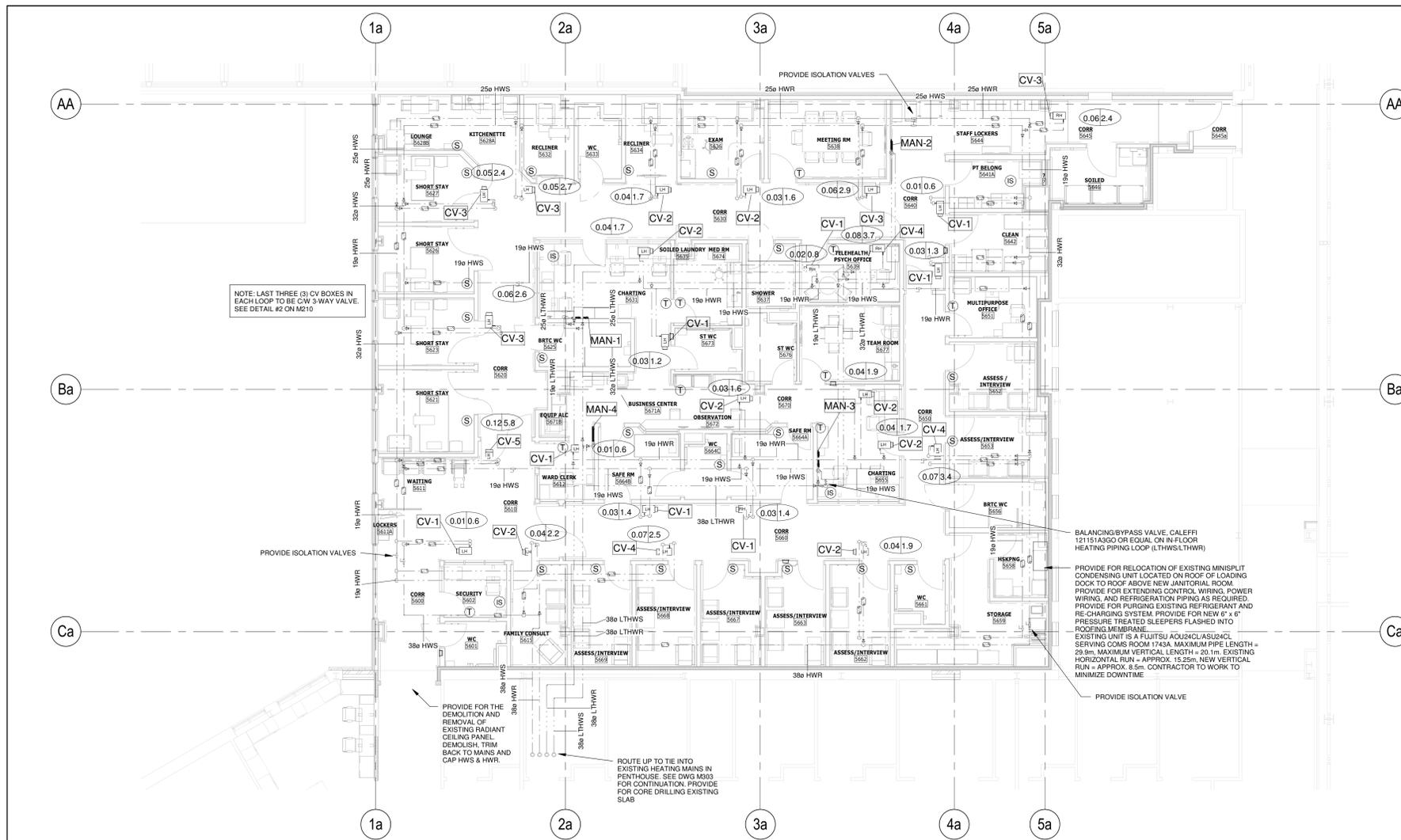
Client  
**Prince Edward Island**  
CANADA

Health & Wellness  
PO Box 2000  
Charlottetown  
Prince Edward Island  
Canada C1A 7N8

Project Title  
Queen Elizabeth Hospital  
Mental Health & Addictions  
Emergency Department & Short Stay Unit

Sheet Title  
Plumbing & Sanitary Fire  
Stopping Details

No.	Description	Date	Date:	Revision
0	Issued for Tender	2022-03-22	2022-03-22	0
			Drawn By: A.E.M., E.I.T.	
			Checked By: S.W.W., P.ENG	
			Project Number:	
			211025	
			Drawing Number:	
			M121	



NOTE: LAST THREE (3) CV BOXES IN EACH LOOP TO BE CW 3-WAY VALVE. SEE DETAIL #2 ON M210

BALANCING/BYPASS VALVE, CALEFFI 121151A3GO OR EQUAL, ON IN-FLOOR HEATING PIPING LOOP (LTHWS/LTHWR)

PROVIDE FOR RELOCATION OF EXISTING MINISPLIT CONDENSING UNIT LOCATED ON ROOF OF LOADING DOCK TO ROOF ABOVE NEW JANITORIAL ROOM. PROVIDE FOR EXTENDING CONTROL WIRING, POWER WIRING, AND REFRIGERATION PIPING AS REQUIRED. PROVIDE FOR PURGING EXISTING REFRIGERANT AND RE-CHARGING SYSTEM. PROVIDE FOR NEW 6" x 6" PRESSURE TREATED SLEEPERS FLASHED INTO ROOFING MEMBRANE. EXISTING UNIT IS A FUJITSU AOU24CUASU24CL SERVING COMS ROOM 1743A. MAXIMUM PIPE LENGTH = 29.8m. MAXIMUM VERTICAL LENGTH = 20.1m. EXISTING HORIZONTAL RUN = APPROX. 15.25m. NEW VERTICAL RUN = APPROX. 8.5m. CONTRACTOR TO WORK TO MINIMIZE DOWNTIME.

PROVIDE FOR THE DEMOLITION AND REMOVAL OF EXISTING RADIANT CEILING PANEL. DEMOLISH, TRIM BACK TO MAINS AND CAP HWS & HWR.

ROUTE UP TO THE INTO EXISTING HEATING MAINS IN PENTHOUSE. SEE DWG M203 FOR CONTINUATION. PROVIDE FOR CORE DRILLING EXISTING SLAB.



TAG	BASIS OF DESIGN	FLOW RATE (LPS)	PRESSURE (kPa)	POWER (HP)	CURRENT (A)	ELECTRICAL	NOTES
P-1	B&G PL-55	0.95	120	2/5	2.4	230/160	
P-2	B&G PL-55	0.95	120	2/5	2.4	230/160	
P-3	B&G PL-55	0.95	120	2/5	2.4	230/160	
P-4	B&G PL-55	0.95	120	2/5	2.4	230/160	

TAG	BASIS OF DESIGN	NECK SIZE (mm)	CAPACITY (L/S)	N.C. LEVEL AT 375 Pa SA INLET PRESSURE W/ ATTENUATOR	BRANCH DUCT SIZE (mm)	HEATING COIL SIZE (mm)	HEATING CAPACITY	HEATING WATER FLOW	COIL	NOTES
CV-1	PRICE SDV-8000 SIZE 4	1000	0 - 70	15	200 x 150	225 x 150	1.9 kW	0.03 LPS		
CV-2	PRICE SDV-8000 SIZE 5	1250	71 - 115	18	200 x 200	225 x 225	2.3 kW	0.05 LPS		
CV-3	PRICE SDV-8000 SIZE 6	1500	116 - 165	15	250 x 200	300 x 225	3.3 kW	0.07 LPS	1-ROW MULTI-CIRCUIT	
CV-4	PRICE SDV-8000 SIZE 7	1750	166 - 210	21	250 x 250	300 x 300	4.2 kW	0.09 LPS		
CV-5	PRICE SDV-8000 SIZE 8	2000	211 - 290	21	300 x 250	350 x 300	5.8 kW	0.12 LPS		

1. MAXIMUM PRESSURE DROP ACROSS HEATING COIL TO BE 62.25 Pa  
 2. ALL COILS TO BE RATED FOR 82.2C EWT, 11C TD, 12.8C EAT, 26.8C LAT.  
 3. ACTUATOR TO BE PROVIDED BY CONTROLS CONTRACTOR, SHIPPED TO FACTORY FOR MOUNTING AND INSTALLATION. SEE SPECIFICATION.  
 4. CONTROLS AND HEATING COIL PIPING CONNECTIONS TO BE FROM SAME SIDE. SEE DRAWING TAGS LH/RH FOR LOCATION OF CONNECTION

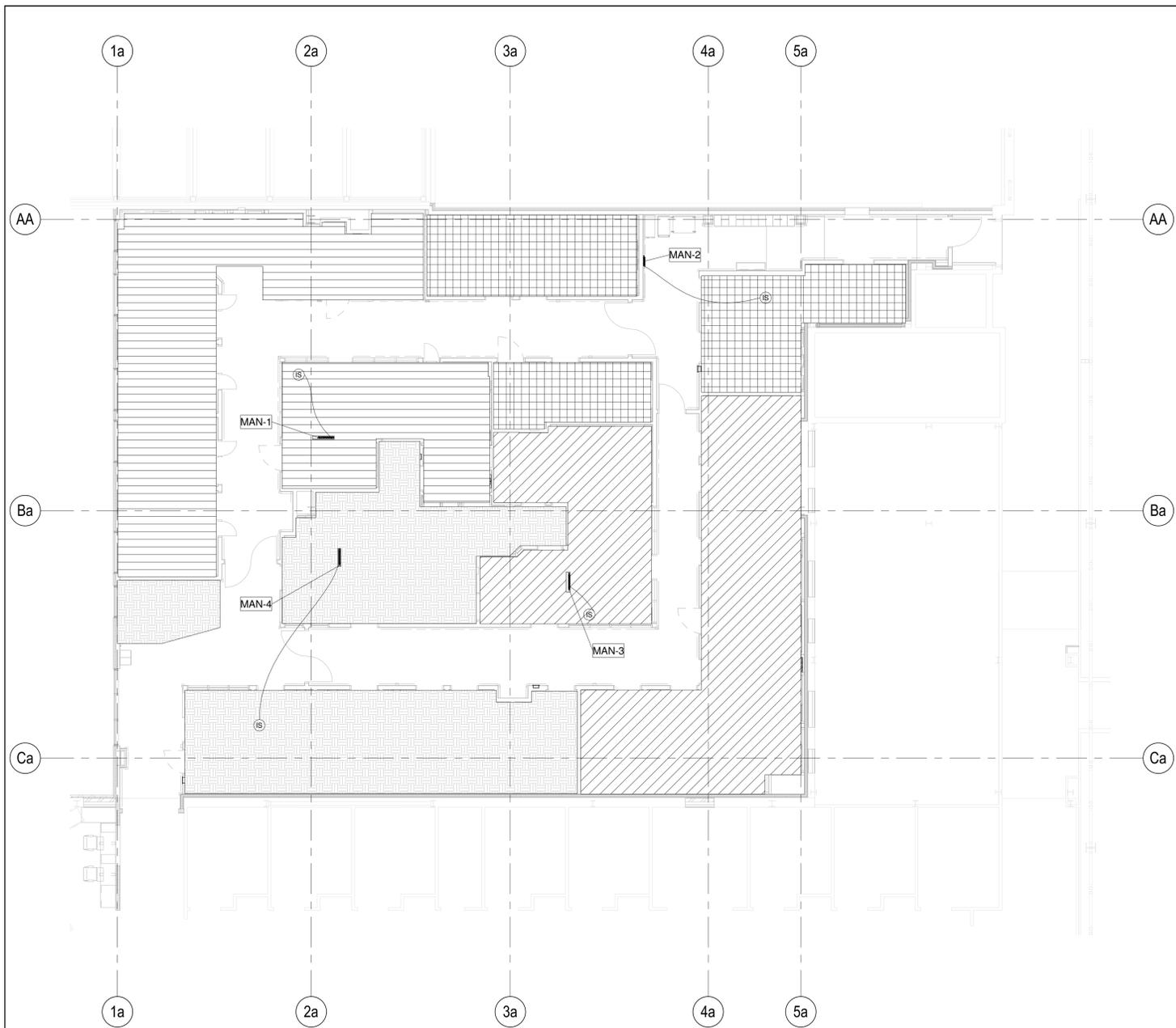
**GENERAL MECHANICAL NOTES:**

- ALL MECHANICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH NATIONAL BUILDING CODE, NATIONAL PLUMBING CODE, N.F.P.A., SMACNA DUCT STANDARDS AND ALL APPLICABLE CODES AND REGULATIONS UNDER AUTHORITIES HAVING JURISDICTION.
- REFER TO ARCH. DRAWINGS FOR LOCATIONS OF ALL FIRE RATED WALLS AND CEILINGS. PROVIDE FIRE DAMPERS/FIRESTOPPING AS REQ'D BY N.F.P.A. & LOCAL CODES (DWG MAY NOT SHOW ALL REQ'D FIRE DAMPERS). PROVIDE ACCESS HATCHES FOR ALL FIRE DAMPERS.
- GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE FIRESTOPPING TO ALL EXISTING PIPING.
- ALL WIRING 50V & UNDER BY THIS CONTRACTOR, ALL WIRING REQUIRED FOR MECHANICAL WORK THAT IS OVER 50V NOTED AS THE RESPONSIBILITY OF THIS CONTRACTOR MUST BE PERFORMED BY AN ELECTRICIAN, COORDINATE REQUIREMENTS WITH GENERAL CONTRACTOR.
- ALL EQUIPMENT MANUFACTURERS LISTED FORM THE STANDARD OF ACCEPTANCE FOR THE EQUIPMENT REQUIRED. ALTERNATE EQUIPMENT MAY BE SUBSTITUTED ONLY AFTER RECEIVING APPROVED EQUAL STATUS FROM THE ENGINEER. PROVIDE SHOP DRAWINGS ON ALL MAJOR EQUIPMENT. IF ALTERNATE EQUIPMENT IS APPROVED BY ENGINEER, ALL COSTS ASSOCIATED WITH ANY MODIFICATIONS, CHANGES, ETC. TO USE THE ALTERNATE EQUIPMENT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

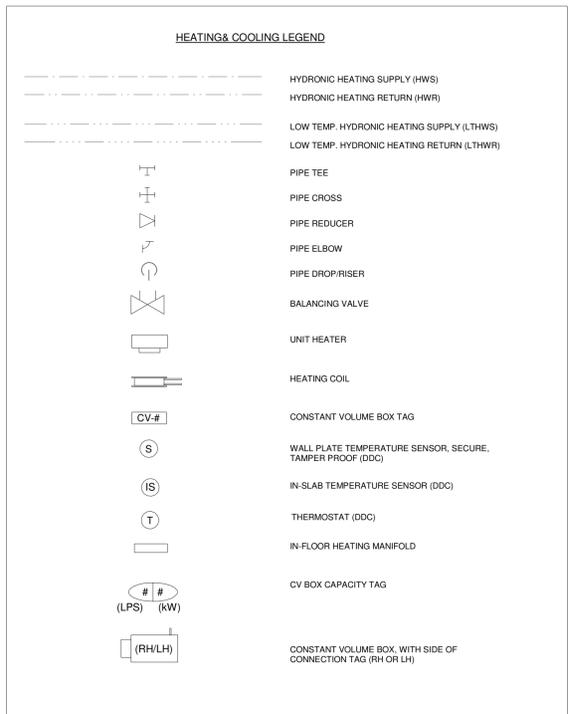
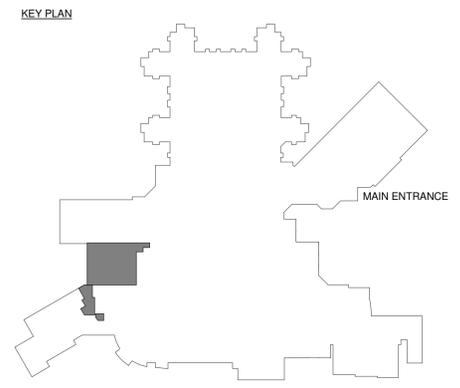
**GENERAL HEATING NOTES:**

- ALL WORK SHALL CONFORM TO NATIONAL PLUMBING CODE, N.B.C.C. LATEST EDITIONS AND TO THE AUTHORITY HAVING JURISDICTION (AHJ).
- REFER TO ARCHITECTURAL DRAWINGS FOR PARTITION SCHEDULE AND FIRE SEPARATIONS.
- ALL HEATING LINES TO BE 20mm UNLESS OTHERWISE NOTED.
- INSTALL ANCHORS, GUIDES AND EXPANSION U-BENDS IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS.
- ALL HEATING PIPING TO BE INSULATED.
- ALL RADIATION EQUIPMENT (I.E. BASEBOARDS, REHEAT COILS, FAN COIL UNITS, UNIT HEATERS) TO HAVE ISOLATION BALL VALVES INSTALLED (BALANCING VALVE IS NOT SUFFICIENT FOR ISOLATION PURPOSES).
- ALLOW FOR INSTALLATION OF INFLOOR HEATING PIPING 150mm O.C. OF PERIMETER SPACING FROM OUTSIDE WALLS FIRST 900mm TO MEET ROOM HEAT LOAD REQUIREMENTS.

<p>Suite 201, 85 Fitzroy Street          Charlottetown, P.E.I., Canada, C1A 1R6          Phone: (902) 368-2300          www.colesassociates.com</p>			Client 	Project Title Health & Wellness Queen Elizabeth Hospital Mental Health & Addictions Emergency Department & Short Stay Unit	Sheet Title Level 200 Heating	No.	Description	Date	Date:	Revision
						0	Issued for Tender	2022-03-22	2022-03-22	0
						Drawn By: A.E.M., E.I.T. Checked By: S.W.W., P.ENG Project Number: <b>211025</b> Drawing Number: <b>M200</b>				



IN-FLOOR HEATING LOOP SCHEDULE				
MAN - #	ROOM NAME	APPROX. LOOP LENGTH (m)	HEATING LOAD (KW)	FLOW (L/S)
1	5621 SHORT STAY 4	74.0	1.14	0.025
1	5623 SHORT STAY 3	60.4	0.92	0.020
1	5626 SHORT STAY 2	59.1	0.92	0.020
1	5627 SHORT STAY 1	58.2	0.90	0.020
1	5628B/5628A LOUNGE/KITCHENETTE	63.4	1.06	0.023
1	5623/5633 RECLINER/WASHROOM	58.2	1.13	0.025
1	5634 RECLINER 2	34.1	0.58	0.013
1	5625 WASHROOM	38.4	0.60	0.013
1	5631 CHARTING	71.3	1.60	0.035
1	5673 WASHROOM	33.2	0.42	0.009
1	5674 MED ROOM	44.5	0.83	0.017
2	5636 EXAM	50.9	0.97	0.021
2	5639 TELEHEALTH/PSYCH OFFICE	45.7	0.84	0.018
2	5637 SHOWER	29.0	0.46	0.010
2	5638 MEETING ROOM	60.7	1.06	0.029
2	5641/5641B LAUNDRY/PT BELONG	49.4	0.75	0.016
2	5642 CLEAN	53.0	0.82	0.018
2	5646 SOILED	66.8	0.87	0.019
3	5663 ASSESS/INTERVIEW 2	64.6	0.88	0.019
3	5662 ASSESS/INTERVIEW 1	65.8	0.91	0.019
3	5653 INTERVIEW	48.8	0.88	0.019
3	5656 WASHROOM	46.6	0.68	0.015
3	5659 HOUSEKEEPING	59.7	0.84	0.018
3	5677 TEAM ROOM	48.5	1.08	0.023
3	5676 WASHROOM	35.7	0.49	0.011
3	5659 STORAGE	70.4	0.92	0.020
3	5655 CHARTING	63.7	1.36	0.029
3	5651 OFFICE	45.4	0.87	0.019
3	5652 ASSESS/INTERVIEW	50.6	0.89	0.021
3	5661 WASHROOM	37.2	0.44	0.009
3	5664A SAFE ROOM	49.7	0.80	0.017
4	5611 WAITING	45.7	0.84	0.018
4	5601 WASHROOM	37.2	0.44	0.009
4	5602 SECURITY	33.2	0.50	0.011
4	5612 WARD CLERK	21.9	0.46	0.010
4	5671A/5671B BUSINESS/EQUIPMENT	20.7	0.30	0.006
4	5664C WASHROOM/5664A SAFE ROOM	62.8	1.24	0.027
4	5670/5672 OBSERVATION CORRIDOR	81.4	1.68	0.037
4	5669 ASSESS/INTERVIEW 3	67.4	0.87	0.019
4	5668 ASSESS/INTERVIEW 4	61.7	0.90	0.020
4	5667 ASSESS/INTERVIEW 5	55.5	0.91	0.020
4	5615 FAMILY CONSULT	47.5	0.84	0.018

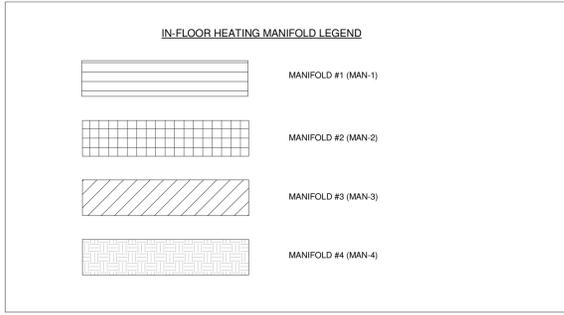


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  - ALL HEATING LINES TO BE 20mm UNLESS OTHERWISE NOTED.
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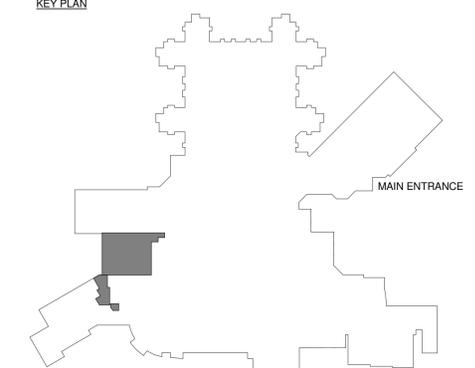
PROJECT NORTH  
 1 Level 200 - In-Floor Heating  
 1:100  
 M201

CV BOX SCHEDULE							
TAG	# OF CIRCUITS	TUBING SIZE (mm)	SUPPLY TEMP (C)	TOTAL FLOW (L/S)	HEAD LOSS (KPa)	TOTAL HEAT LOAD (KW)	NOTES
MAN-1	11	15	46	0.22	10.46	10.13	CW TELESATS AND END SWITCHES
MAN-2	7	15	46	0.13	6.57	4.80	CW TELESATS AND END SWITCHES
MAN-3	12	15	46	0.22	7.47	10.24	CW TELESATS AND END SWITCHES
MAN-4	11	15	46	0.20	12.55	8.98	CW TELESATS AND END SWITCHES

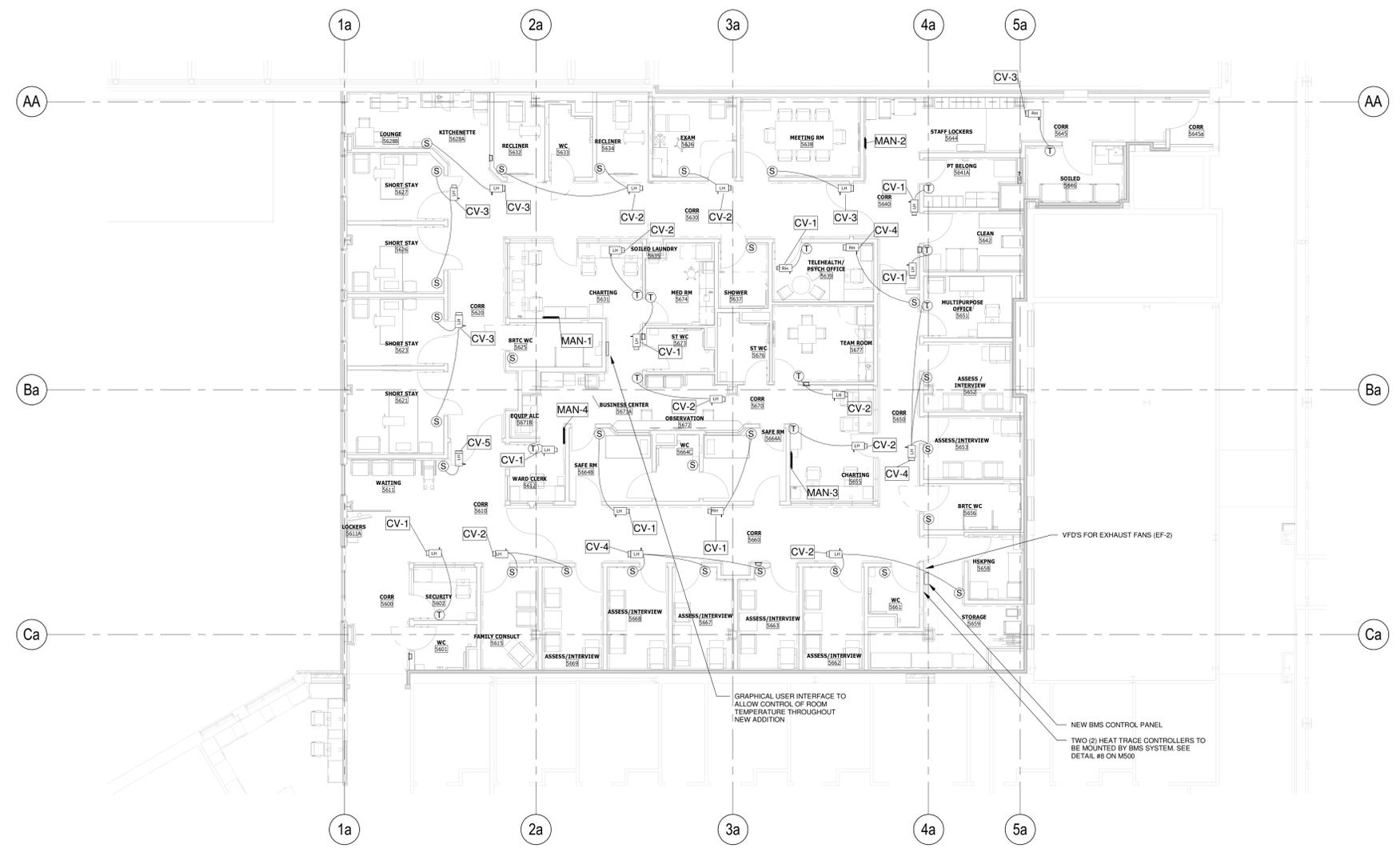
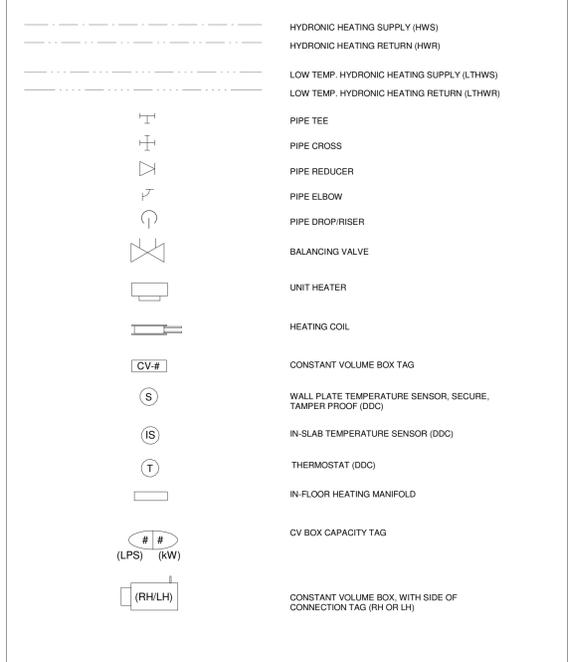


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						0	Issued for Tender	2022-03-22	Dm By: A.E.M., E.I.T. Ck By: S.W.W., P.ENG Project Number: <b>211025</b> Drawing Number: <b>M201</b>	

KEY PLAN



HEATING & COOLING LEGEND



GRAPHICAL USER INTERFACE TO ALLOW CONTROL OF ROOM TEMPERATURE THROUGHOUT NEW ADDITION

NEW BMS CONTROL PANEL

TWO (2) HEAT TRACE CONTROLLERS TO BE MOUNTED BY BMS SYSTEM. SEE DETAIL #8 ON M500



1 Level 200 - Heating Controls  
M202  
1:100

- GENERAL MECHANICAL NOTES:**
1. ALL MECHANICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH NATIONAL BUILDING CODE, NATIONAL PLUMBING CODE, N.F.P.A., SMACNA DUCT STANDARDS AND ALL APPLICABLE CODES AND REGULATIONS UNDER AUTHORITIES HAVING JURISDICTION.
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  3. ALL HEATING LINES TO BE 20mm UNLESS OTHERWISE NOTED.
  4. INSTALL ANCHORS, GUIDES AND EXPANSION U-BENDS IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS.
  5. ALL HEATING PIPING TO BE INSULATED.
  6. ALL RADIATION EQUIPMENT (I.E. BASEBOARDS, REHEAT COILS, FAN COIL UNITS, UNIT HEATERS) TO HAVE ISOLATION BALL VALVES INSTALLED (BALANCING VALVE IS NOT SUFFICIENT FOR ISOLATION PURPOSES).
  7. ALLOW FOR INSTALLATION OF INFLOOR HEATING PIPING 150mm O.C. OF PERIMETER SPACING FROM OUTSIDE WALLS FIRST 900mm TO MEET ROOM HEAT LOAD REQUIREMENTS.

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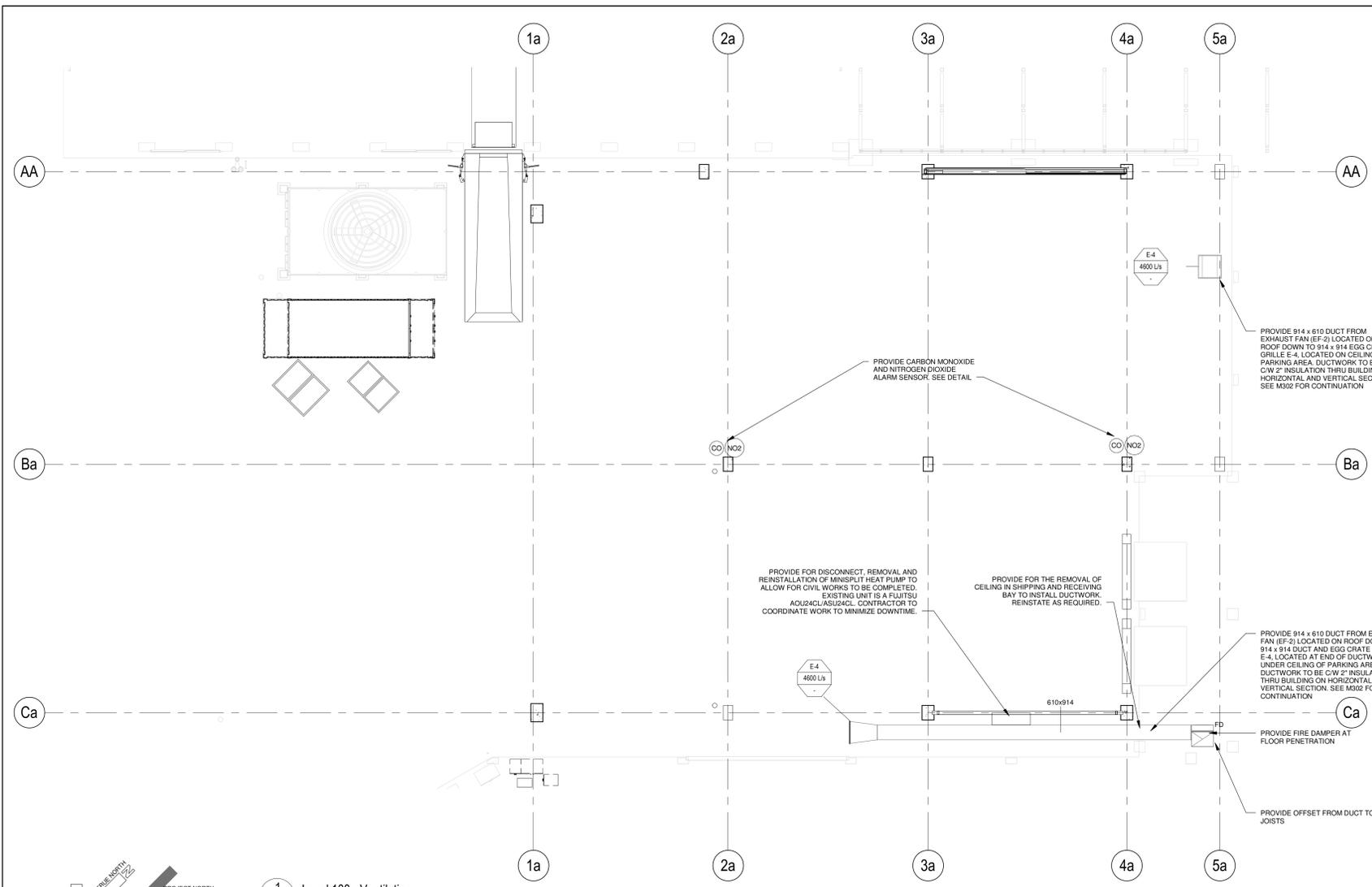
Client  
**Prince Edward Island**  
Health & Wellness  
PO Box 2000  
Charlottetown  
Prince Edward Island  
Canada C1A 7N8

Project Title  
**Queen Elizabeth Hospital  
Mental Health & Addictions  
Emergency Department & Short Stay Unit**

Sheet Title  
**Level 200 Heating - Sensors & Controls**

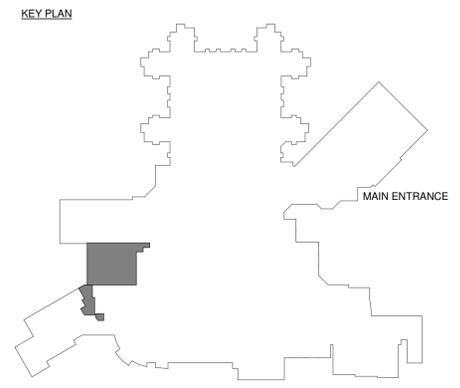
No.	Description	Date	Date:	Revision
0	Issued for Tender	2022-03-22	2022-03-22	0
			Drawn By: A.E.M., E.I.T.	
			Checked By: S.W.W., P.ENG	
			Project Number:	
			<b>211025</b>	
			Drawing Number:	
			<b>M202</b>	





**VENTILATION LEGEND**

- SUPPLY AIR DUCTWORK
- RETURN AIR DUCTWORK
- EXHAUST AIR DUCTWORK
- BALANCE DAMPER (BD)
- FIRE DAMPER (FD)
- AIR TERMINALS
- DIFFUSER TAG (DIFFUSER TYPE, FLOW, NECK SIZE)

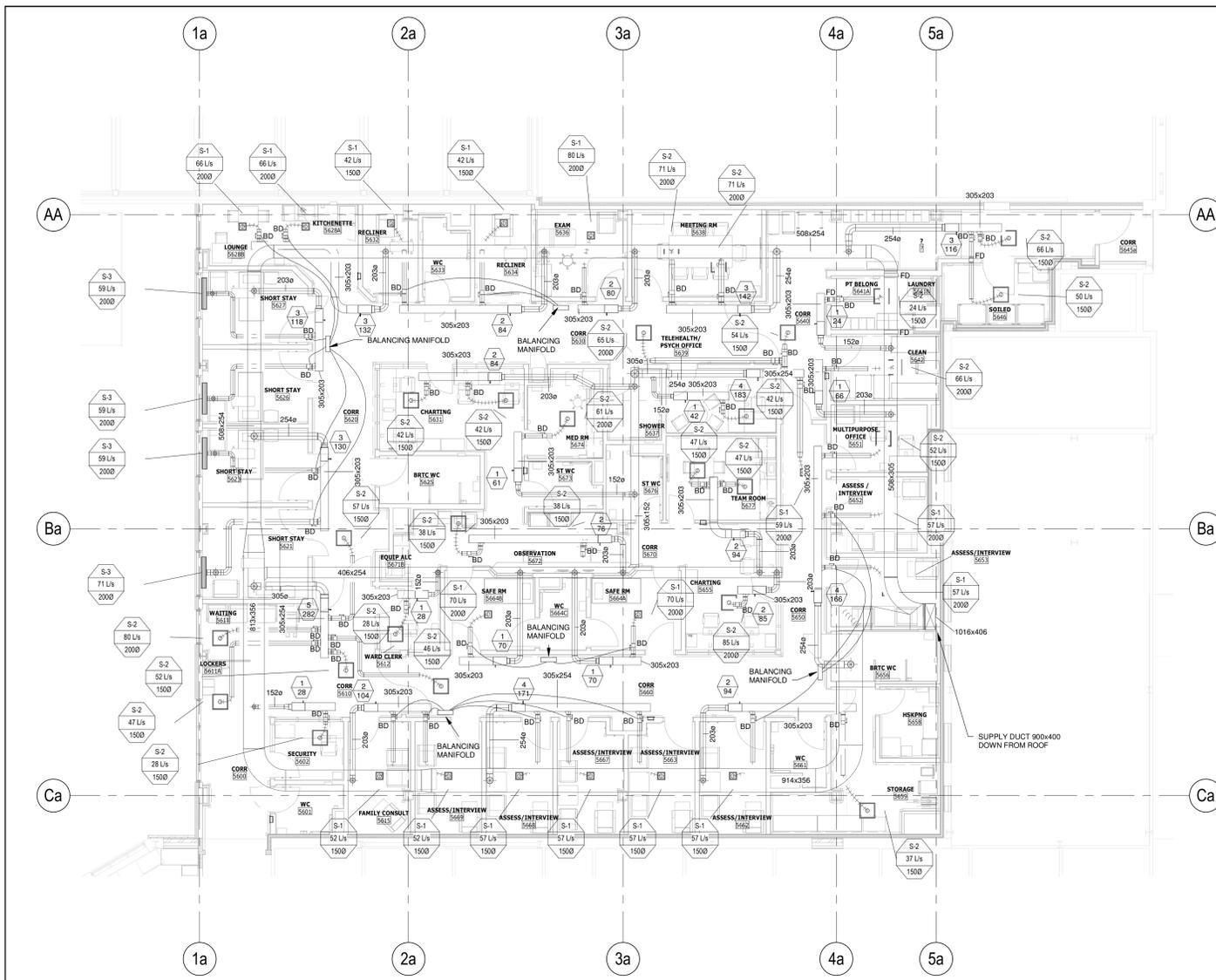


- GENERAL MECHANICAL NOTES:**
1. ALL MECHANICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH NATIONAL BUILDING CODE, NATIONAL PLUMBING CODE, N.F.P.A., SMACNA DUCT STANDARDS AND ALL APPLICABLE CODES AND REGULATIONS UNDER AUTHORITIES HAVING JURISDICTION.
  2. REFER TO ARCH. DRAWINGS FOR LOCATIONS OF ALL FIRE RATED WALLS AND CEILINGS. PROVIDE FIRE DAMPERS/FIRESTOPPING AS REQ'D BY N.F.P.A. & LOCAL CODES (DWG MAY NOT SHOW ALL REQ'D FIRE DAMPERS). PROVIDE ACCESS HATCHES FOR ALL FIRE DAMPERS.
  3. GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE FIRESTOPPING TO ALL EXISTING PIPING.
  4. ALL WIRING 50V & UNDER BY THIS CONTRACTOR. ALL WIRING REQUIRED FOR MECHANICAL WORK THAT IS OVER 50V NOTED AS THE RESPONSIBILITY OF THIS CONTRACTOR MUST BE PERFORMED BY AN ELECTRICIAN. COORDINATE REQUIREMENTS WITH GENERAL CONTRACTOR.
  5. ALL EXCAVATION & BACKFILLING BY OTHERS.
  6. ALL EQUIPMENT MANUFACTURERS LISTED FORM THE STANDARD OF ACCEPTANCE FOR THE EQUIPMENT REQUIRED. ALTERNATE EQUIPMENT MAY BE SUBSTITUTED ONLY AFTER RECEIVING APPROVED EQUAL STATUS FROM THE ENGINEER. PROVIDE SHOP DRAWINGS ON ALL MAJOR EQUIPMENT. IF ALTERNATE EQUIPMENT IS APPROVED BY ENGINEER, ALL COSTS ASSOCIATED WITH ANY MODIFICATIONS, CHANGES, ETC. TO USE THE ALTERNATE EQUIPMENT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- GENERAL VENTILATION NOTES:**
1. INSULATE OUTSIDE FRESH AIR DUCT, ALL SUPPLY DUCTWORK AND FIRST 3000mm FROM EXTERIOR WALL ON EXHAUST DUCTWORK.
  2. ALL DIFFUSERS TO HAVE EXTERNAL BALANCING DAMPERS, WITH INTERNAL ACCESS THROUGH DIFFUSER OR ALTERNATE REMOTE LOCATION.
  3. CONTRACTOR RESPONSIBLE FOR ALL DUCT TRANSITIONS TO/FROM AHU, EXHAUST FANS, FAN COILS, REHEAT COILS AND OFFSETS BETWEEN FLOORS.
  4. CONTRACTOR RESPONSIBLE TO CO-ORDINATE DIFFUSER FRAME TYPES WITH CEILING TYPES PRIOR TO ORDERING.
  5. FIRE DAMPERS REQ'D AT FLOOR PENETRATIONS AND ALL FIRE SEPARATIONS, REFER TO ARCH. DWGS. FOR ALL FIRE SEPARATION LOCATIONS.
  6. REFER TO DIFFUSER NECK SIZES FOR INDIVIDUAL DIFFUSER BRANCH LINE SIZES.
  7. USE NO MORE THAN 5 FT OF FLEX. DUCT ON BRANCHES TO DIFFUSERS.
  8. EXACT LOCATION OF DIFFUSERS TO BE AS PER REFLECTED CEILING PLAN. SEE ARCH. DRAWINGS.
  9. CONTRACTOR TO ALLOW FOR OFFSETS IN DUCTWORK WHERE REQUIRED.
  10. PROVIDE ACCESS HATCHES AS PER SPEC.
  11. CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH OTHER DISCIPLINES FOR SUCCESSFUL INSTALLATION. NO EXTRA WILL BE PAID IN FAILURE TO RESULT FROM COORDINATION.
  12. ALL CEILINGS ARE FIRE RATED BELOW PENTHOUSE. REFER TO ARCHITECTURAL.

AIR TERMINAL SCHEDULE							
TAG	MANUFACTURER	MODEL	#	AIRFLOW RANGE (L/S)	GRILLE SIZE (mm x mm)	NECK SIZE (mm)	NOTES
E-1/R-1	KEES	SEG-9SP2	A	0 - 30	150 x 150	-	SECURE, DRYWALL CEILING INSTALL C/W DAMPER & COUNTER SUNK, TAMPER RESISTANT SCREWS FOR MOUNTING
			B	31 - 44	200 x 200	-	
			C	45 - 65	250 x 200	-	
			D	66 - 85	250 x 250	-	
			E	86 - 115	300 x 300	-	
E-2/R-2	NAILOR	7145H	A	0 - 30	150 x 150	-	T-BAR CEILING INSTALL C/W DAMPER & COUNTER SUNK, TAMPER RESISTANT SCREWS FOR MOUNTING
			B	31 - 44	200 x 150	-	
			C	45 - 65	200 x 200	-	
			D	66 - 85	250 x 250	-	
			E	86 - 115	300 x 300	-	
E-3/R-3	NAILOR	7145H	A	0 - 30	150 x 150	-	DRYWALL CEILING INSTALL C/W DAMPER & COUNTER SUNK, TAMPER RESISTANT SCREWS FOR MOUNTING
			B	31 - 44	200 x 150	-	
			C	45 - 65	200 x 200	-	
			D	66 - 85	250 x 250	-	
			E	86 - 115	300 x 300	-	
E-4	NAILOR	6TEC	-	4600	914 x 914	-	DRYWALL CEILING INSTALLATION, STAINLESS STEEL CONSTRUCTION
S-1	KEES	SDP3L	A	0 - 38	150 x 150	1500	SECURE, DRYWALL CEILING INSTALL C/W DAMPER & COUNTER SUNK, TAMPER RESISTANT SCREWS FOR MOUNTING
			B	39 - 80	225 x 225	1500	
S-2	NAILOR	RNS	C	81 - 142	300 x 300	2000	T-BAR CEILING INSTALL C/W DAMPER & COUNTER SUNK, TAMPER RESISTANT SCREWS FOR MOUNTING
			A	0 - 75	-	1500	
			B	76 - 150	610 x 610	2000	
S-3	KEES	SEG-9LS3H2	C	151 - 205	-	2500	SECURE, DRYWALL CEILING INSTALL C/W DAMPER & COUNTER SUNK, TAMPER RESISTANT SCREWS FOR MOUNTING
			-	48 - 118	1,200 x 172	2000	

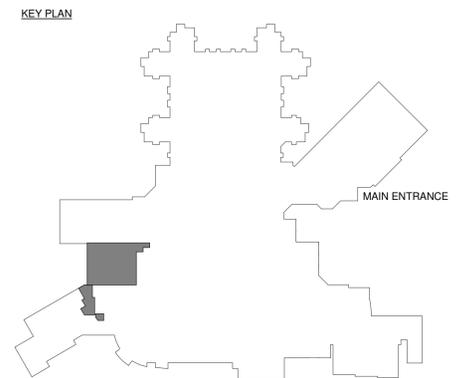
<p>Suite 201, 85 Fitzroy Street Charlottetown, P.E.I., Canada, C1A 1R6 Phone: (902) 368-2300 www.colesassociates.com</p>			<p>Health &amp; Wellness PO Box 2000 Charlottetown Prince Edward Island Canada C1A 7N8</p>	<p>Project Title Queen Elizabeth Hospital Mental Health &amp; Addictions Emergency Department &amp; Short Stay Unit</p>	<p>Sheet Title Level 100 Ventilation</p>	No.	Description	Date	Date:	Revision
						0	Issued for Tender	2022-03-22	2022-03-22	0
						<p>Drawn By: A.E.M., E.I.T. Checked By: S.W.W., P.ENG Project Number: <b>211025</b> Drawing Number: <b>M300</b></p>				

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**VENTILATION LEGEND**

- SUPPLY AIR DUCTWORK
- RETURN AIR DUCTWORK
- EXHAUST AIR DUCTWORK
- BALANCING DAMPER (BD)
- FIRE DAMPER (FD)
- AIR TERMINALS
- DIFFUSER TAG (DIFFUSER TYPE, FLOW, NECK SIZE)



**DRAWING NOTES:**  
 1. PROVIDE ACCESS HATCHES FOR EQUIPMENT INSTALLED IN ACT (SECURE) CEILINGS TO ALLOW ACCESS TO MECHANICAL EQUIPMENT.  
 2. CONTRACTOR TO PROVIDE GEAR DRIVEN CABLE OPERATED BALANCING DAMPER DURO DYNE GXCOORD OR EQUAL FOR ALL BALANCING DAMPERS LOCATED WHERE T-BAR ACCESS IS NOT AVAILABLE. CONTRACTOR TO LOCATE DAMPERS AT CONTROL BALANCING STATION ABOVE CEILING. SEE DETAIL.

**GENERAL MECHANICAL NOTES:**  
 1. ALL MECHANICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH NATIONAL BUILDING CODE, NATIONAL PLUMBING CODE, N.F.P.A., SMACNA DUCT STANDARDS AND ALL APPLICABLE CODES AND REGULATIONS UNDER AUTHORITIES HAVING JURISDICTION.  
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**GENERAL VENTILATION NOTES:**  
 1. INSULATE OUTSIDE FRESH AIR DUCT, ALL SUPPLY DUCTWORK AND FIRST 3000mm FROM EXTERIOR WALL ON EXHAUST DUCTWORK.  
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 3. CONTRACTOR RESPONSIBLE FOR ALL DUCT TRANSITIONS TO/FROM AHU, EXHAUST FANS, FAN COILS, REHEAT COILS AND OFFSETS BETWEEN FLOORS.  
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 12. ALL CEILINGS ARE FIRE RATED BELOW FLOOR. REFER TO ARCHITECTURAL.

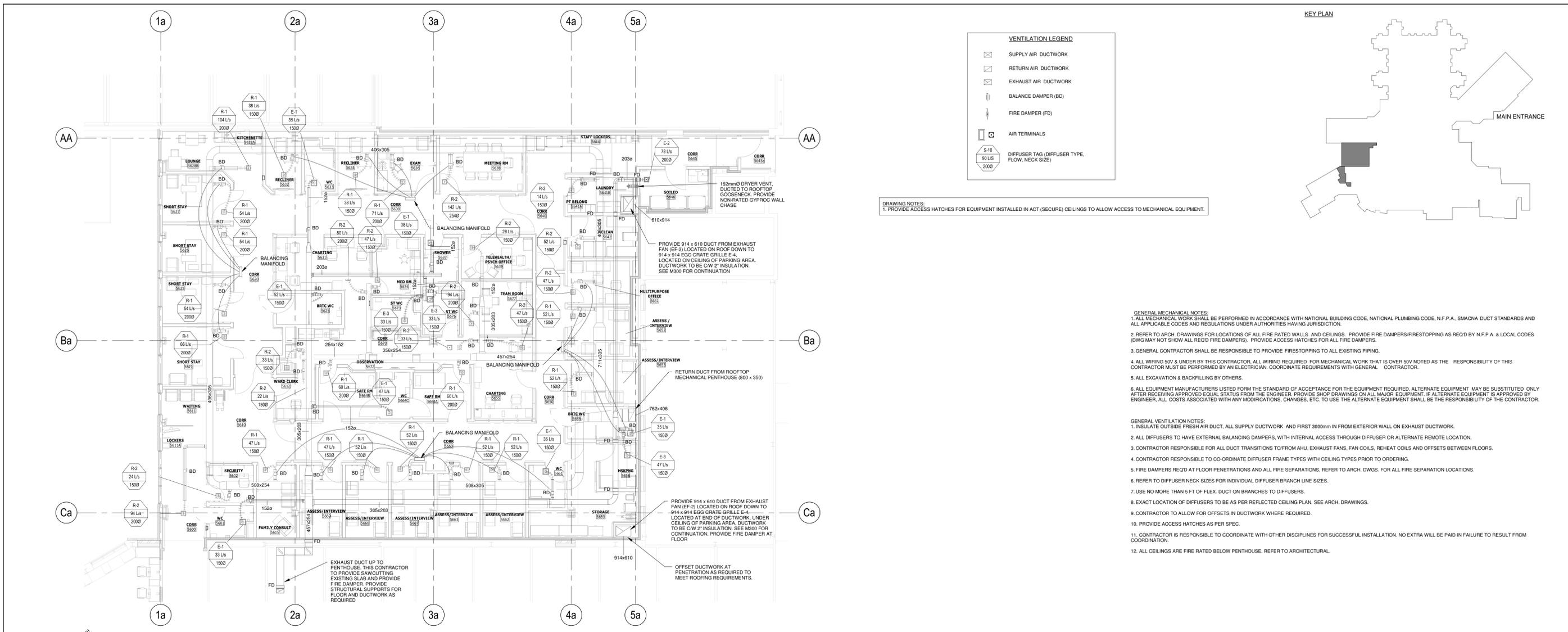
PROJECT NORTH  
 1 M301 Level 200 Ventilation - Supply Air  
 1:100

**AIR TERMINAL SCHEDULE**

TAG	MANUFACTURER	MODEL	#	AIRFLOW RANGE (L/S)	GRILLE SIZE (mm x mm)	NECK SIZE (mm)	NOTES
E-1/R-1	KEES	SEG-9SP2	A	0 - 30	150 x 150	-	SECURE, DRYWALL CEILING INSTALL C/W DAMPER & COUNTER SUNK, TAMPER RESISTANT SCREWS FOR MOUNTING
			B	31 - 44	200 x 200	-	
			C	45 - 65	250 x 200	-	
			D	66 - 85	250 x 250	-	
			E	86 - 115	300 x 300	-	
E-2/R-2	NAILOR	7145H	A	0 - 30	150 x 150	-	T-BAR CEILING INSTALL C/W DAMPER & COUNTER SUNK, TAMPER RESISTANT SCREWS FOR MOUNTING
			B	31 - 44	200 x 150	-	
			C	45 - 65	200 x 200	-	
			D	66 - 85	250 x 250	-	
			E	86 - 115	300 x 300	-	
E-3/R-3	NAILOR	7145H	A	0 - 30	150 x 150	-	DRYWALL CEILING INSTALL C/W DAMPER & COUNTER SUNK, TAMPER RESISTANT SCREWS FOR MOUNTING
			B	31 - 44	200 x 150	-	
			C	45 - 65	200 x 200	-	
			D	66 - 85	250 x 250	-	
			E	86 - 115	300 x 300	-	
E-4	NAILOR	67EC	-	4600	914 x 914	-	DRYWALL CEILING INSTALLATION, STAINLESS STEEL CONSTRUCTION
S-1	KEES	SDP3L	A	0 - 38	150 x 150	1500	SECURE, DRYWALL CEILING INSTALL C/W DAMPER & COUNTER SUNK, TAMPER RESISTANT SCREWS FOR MOUNTING
			B	39 - 80	225 x 225	1500	
			C	81 - 142	300 x 300	2000	
S-2	NAILOR	RNS	A	0 - 75	150	1500	T-BAR CEILING INSTALL C/W DAMPER & COUNTER SUNK, TAMPER RESISTANT SCREWS FOR MOUNTING
			B	76 - 150	610 x 610	2000	
			C	151 - 205	2500	2500	
S-3	KEES	SEG-9LS3H2	-	48 - 118	1,200 x 172	2000	SECURE, DRYWALL CEILING INSTALL C/W DAMPER & COUNTER SUNK, TAMPER RESISTANT SCREWS FOR MOUNTING

 Suite 201, 85 Fitzroy Street Charlottetown, P.E.I., Canada, C1A 1R6 Phone: (902) 368-2300 www.colesassociates.com	 ARCHITECTS LIMITED	 No. 657 PRICE EDWARD ISLAND	Client  Health & Wellness PO Box 2000 Charlottetown Prince Edward Island Canada C1A 7N8	Project Title Queen Elizabeth Hospital Mental Health & Addictions Emergency Department & Short Stay Unit	Sheet Title Level 200 Ventilation - Supply Air	No.	Description	Date	Date:	Revision	
						0	Issued for Tender	2022-03-22	2022-03-22	0	
						Drawn By: A.E.M., E.I.T. Project Number: <b>211025</b> Drawing Number: <b>M301</b>					

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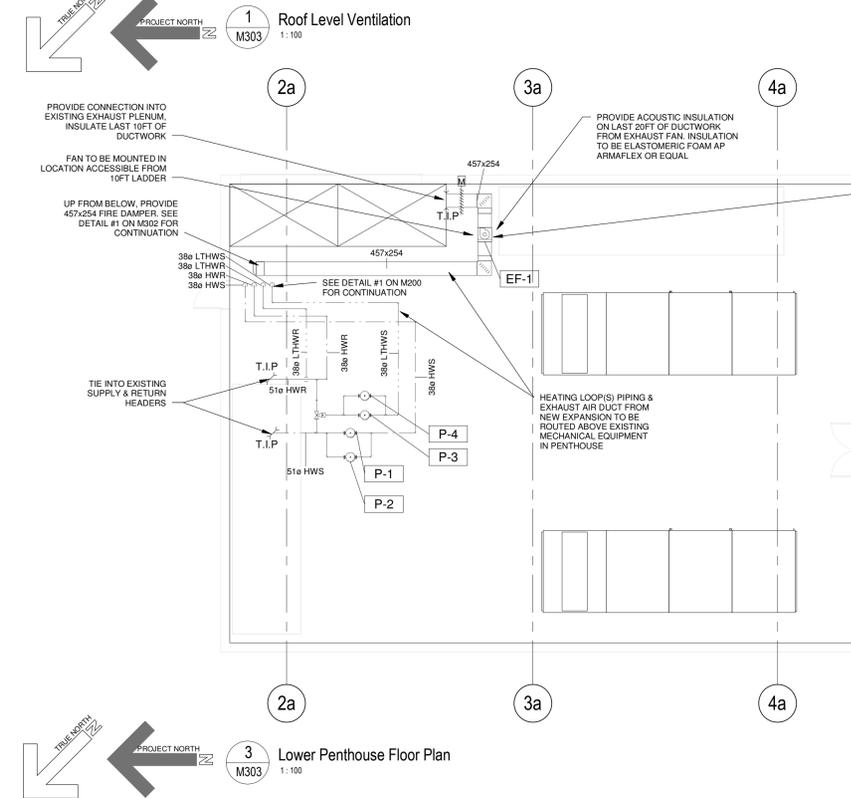
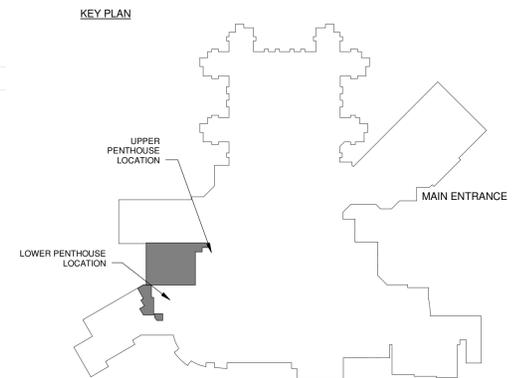
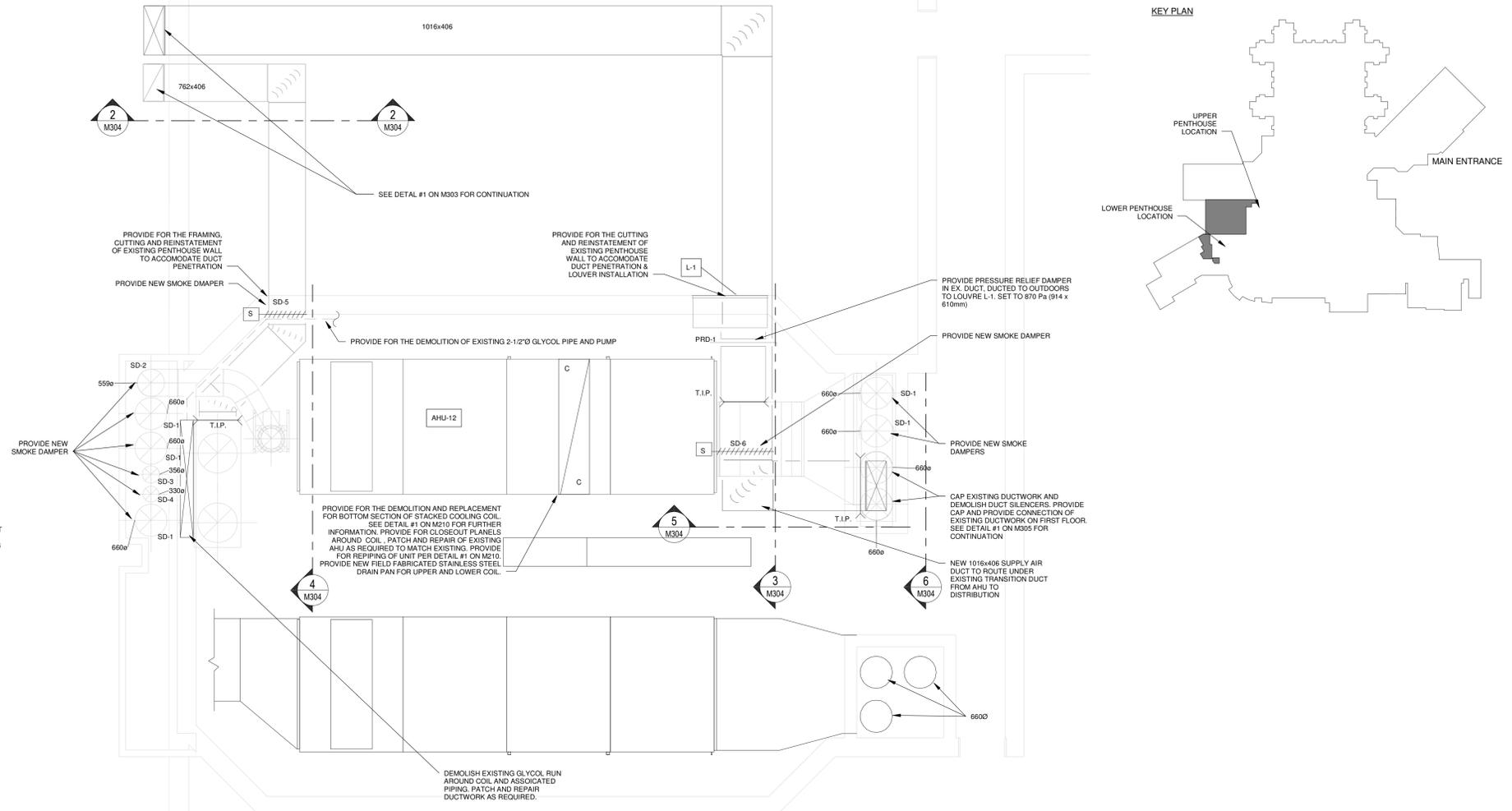
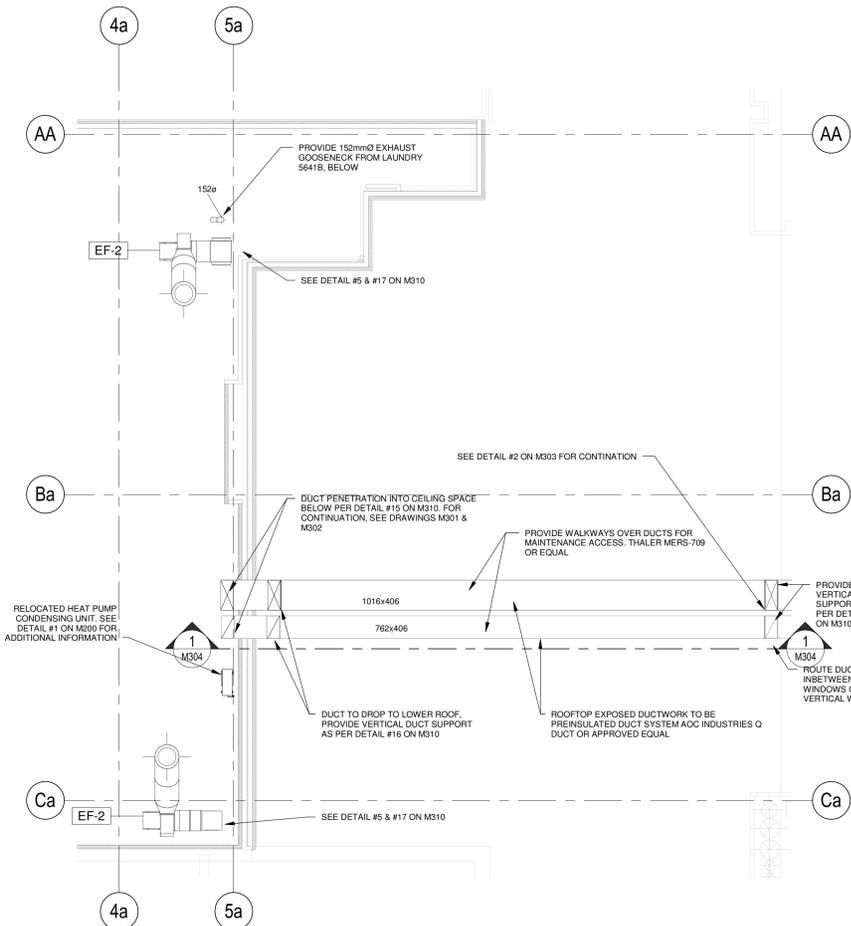


1 Level 200 Ventilation - Return & Exhaust Air  
1:100

AIR TERMINAL SCHEDULE							
TAG	MANUFACTURER	MODEL	#	AIRFLOW RANGE (L/S)	GRILLE SIZE (mm x mm)	NECK SIZE (mm)	NOTES
E-1/R-1	KEES	SEG-9SP2	A	0 - 30	150 x 150	-	SECURE, DRYWALL CEILING INSTALL C/W DAMPER & COUNTER SUNK, TAMPER RESISTANT SCREWS FOR MOUNTING
			B	31 - 44	200 x 200	-	
			C	45 - 65	250 x 200	-	
			D	66 - 85	250 x 250	-	
			E	86 - 115	300 x 300	-	
E-2/R-2	NAILOR	7145H	A	0 - 30	150 x 150	-	T-BAR CEILING INSTALL C/W DAMPER & COUNTER SUNK, TAMPER RESISTANT SCREWS FOR MOUNTING
			B	31 - 44	200 x 150	-	
			C	45 - 65	200 x 200	-	
			D	66 - 85	250 x 250	-	
			E	86 - 115	300 x 300	-	
E-3/R-3	NAILOR	7145H	A	0 - 30	150 x 150	-	DRYWALL CEILING INSTALL C/W DAMPER & COUNTER SUNK, TAMPER RESISTANT SCREWS FOR MOUNTING
			B	31 - 44	200 x 150	-	
			C	45 - 65	200 x 200	-	
			D	66 - 85	250 x 250	-	
			E	86 - 115	300 x 300	-	
E-4	NAILOR	67EC	-	4600	914 x 914	-	DRYWALL CEILING INSTALLATION, STAINLESS STEEL CONSTRUCTION
S-1	KEES	SDP3L	A	0 - 38	150 x 150	1500	SECURE, DRYWALL CEILING INSTALL C/W DAMPER & COUNTER SUNK, TAMPER RESISTANT SCREWS FOR MOUNTING
			B	39 - 80	225 x 225	1500	
			C	81 - 142	300 x 300	2000	
S-2	NAILOR	RNS	A	0 - 75	-	1500	T-BAR CEILING INSTALL C/W DAMPER & COUNTER SUNK, TAMPER RESISTANT SCREWS FOR MOUNTING
			B	76 - 150	610 x 610	2000	
			C	151 - 205	-	2500	
S-3	KEES	SEG-9LS3H2	-	48 - 118	1,200 x 172	2000	SECURE, DRYWALL CEILING INSTALL C/W DAMPER & COUNTER SUNK, TAMPER RESISTANT SCREWS FOR MOUNTING

<p>Suite 201, 85 Fitzroy Street Charlottetown, P.E.I., Canada, C1A 1R6 Phone: (902) 368-2300 www.colesassociates.com</p>			<p>Client <b>Prince Edward Island</b> Health &amp; Wellness PO Box 2000 Charlottetown Prince Edward Island Canada C1A 7N8</p>	<p>Project Title <b>Queen Elizabeth Hospital Mental Health &amp; Addictions Emergency Department &amp; Short Stay Unit</b></p>	<p>Sheet Title <b>Level 200 Ventilation - Return &amp; Exhaust Air</b></p>	No.	Description	Date	Date:	Revision
						0	Issued for Tender	2022-03-22	2022-03-22	0
						<p>Drawn By: A.E.M., E.I.T. Checked By: S.W.W., P.ENG Project Number: <b>211025</b> Drawing Number: <b>M302</b></p>				

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SUPPLY AIR SYSTEM SCHEDULE - AHU-12 COOLING COIL REPLACEMENT																
TAG	MANUFACTURER & MODEL	ROWS	TUBE FACE	FACE AREA (m <sup>2</sup> )	FACE VEL (m/s)	ENTERING AIR		LEAVING AIR		COOLING CAP. (kW)	EWT (C)	LWT (C)	FLOW (L/S)	AIR FRIC. (Pa)	WATER P.D. (Pa)	NOTES
						DB (C)	WB (C)	DB (C)	WB (C)							
AHU-12	NAPIER ENGINEERING MODEL 34.5x103.5-4R-0-025-95 SCOC	4	FULL	1.5	2.13	27.2	21.1	15	14.1	125.5	6.10	11.8	5.2	62	23 MAX	CHILLED WATER COIL TO REPLACE LOWER ONE OF TWO COOLING COILS IN AHU-12. ALUMINUM FIN. COPPER TUBE. STAINLESS STEEL CASING, SUPPLIED WITH HARDWARE AND GASKETS. DESIGNED TO MATCH EXISTING.

EXHAUST FAN SCHEDULE																	
TAG	APPLICATION	LOCATION	TYPE AND SIZE OF FAN UNIT	FAN DATA				MOTOR DATA		STARTER DATA		VIBRATION ISOLATIONS			NOTES		
				L/S	S.P. (Pa)	O.V. (m/s)	BREAK (HP)	RPM	kW (HP)	ELEC.	TYPE	LOCATION	FAN INTERLOCKING	BASE		SPRINGS	STATIC DEF. (mm)
EF-1	SANITARY EXHAUST	LOWER PENTHOUSE	INLINE MF 90 QMX	426	500	5.8	0.47 (0.631)	2984	0.56 (0.75)	575/360	MAGNETIC STARTER BY DIV. 16	SEE ELEC. DWGS	EMCS, FA	-	SH	50	PROVIDE DISCONNECT
EF-2	VEHICLE EXHAUST	ROOF	DIRECT DRIVE, ANGULAR UPBLAST, ROOF MOUNTED FAN, COOK 225 CPS-A	4743	187	17.3	-	1532	4.98 (5.00)	575/360	VFD BY DIV. 25	SEE ELEC. DWGS	EMCS, GAS DETECTOR	-	-	-	PROVIDE DISCONNECT. 18" ROOF CURB, UV STABILIZED EPOXY COATING, VFD RATED MOTOR, SHAFT GROUNDING RING, ONE TO BE BAU TYPE CONSTRUCTION, OTHER TO BE TAU CONSTRUCTION (DISCHARGE AT 45 DEG ANGLE TOWARD STACK)

LOUVER SCHEDULE							
TAG	LOCATION	SIZE (H x W) (mm)	MANUFACTURER & MODEL #	AIRFLOW (LPS)	FREE AREA (SQ. M)	VELOCITY (M/S)	NOTES
L-1	PENTHOUSE	1,524 x 1,524	VENTEX 2215	4,720	1.26	3.7	OW BIRDSCREEN, INSECT SCREEN, AND BAKED ENAMEL FINISH

SMOKE & FIRE DAMPER SCHEDULE				
TAG	LOCATION	SYSTEM AND/OR SERVICE	DUCT SIZE (mm)	NOTES
SD-1	PENTHOUSE	AHU-12	6603	SMOKE DAMPER
SD-2	PENTHOUSE	AHU-12	5590	SMOKE DAMPER
SD-3	PENTHOUSE	AHU-12	3560	SMOKE DAMPER
SD-4	PENTHOUSE	AHU-12	3300	SMOKE DAMPER
SD-5	PENTHOUSE	AHU-12	762 x 406	COMBINATION FIRE & SMOKE DAMPER
SD-6	PENTHOUSE	AHU-12	1016 x 406	COMBINATION FIRE & SMOKE DAMPER

PRESSURE RELIEF DAMPER SCHEDULE					
TAG	LOCATION	SYSTEM AND/OR SERVICE	DUCT SIZE (mm)	PRESSURE (Pa)	NOTES
PRD-1	PENTHOUSE	AHU-12	914 x 610	870	PRESSURE RELIEF DAMPER

MOTORIZED DAMPER SCHEDULE						
TAG	LOCATION	SYSTEM AND/OR SERVICE	DUCT SIZE (mm)	MANUFACTURER & MODEL #	AIRFLOW (L/S)	NOTES
MD-1	PENTHOUSE	EF-1	457 x 254	VENTEX 4100-OB	426	EXHAUST AIR FROM NEW ADDITION, OPENS WITH EF-1 START

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Phone: (902) 368-2300  
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Client

Health & Wellness  
PO Box 2000  
Charlottetown  
Prince Edward Island  
Canada C1A 7N8

Project Title

Queen Elizabeth Hospital  
Mental Health & Addictions  
Emergency Department & Short Stay Unit

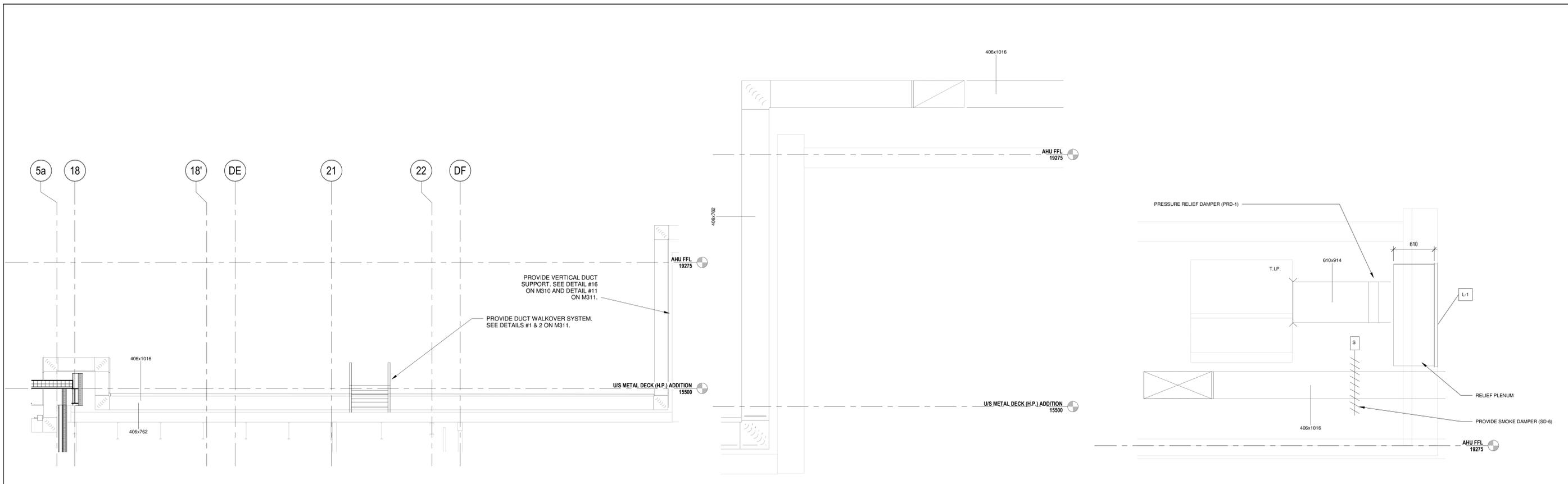
Sheet Title

Penthouse & Roof Plan

No.	Description	Date	Date	Revision
0	Issued for Tender	2022-03-22	2022-03-22	0

211025  
Drawing Number:  
M303

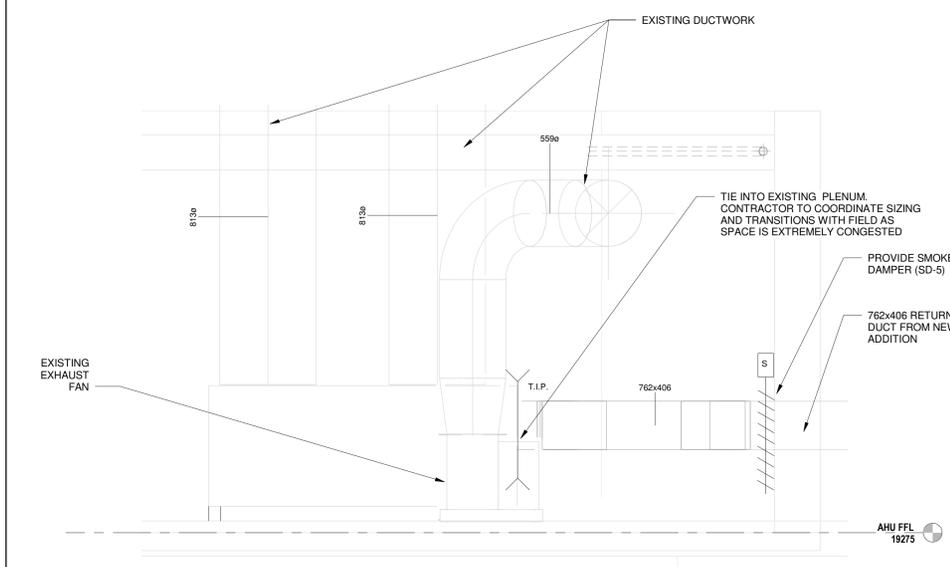
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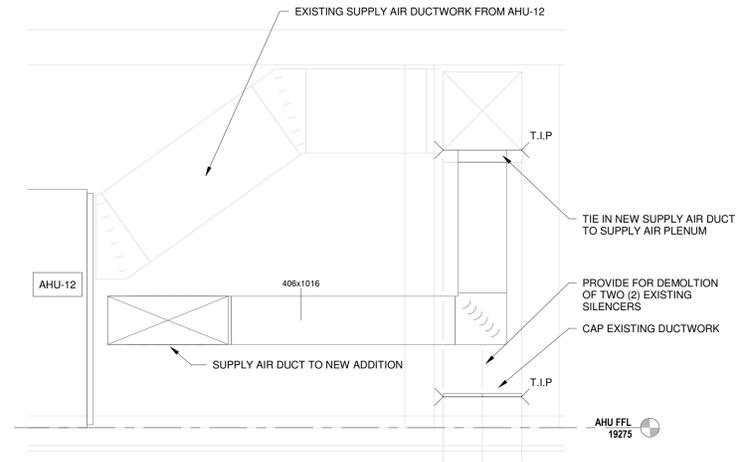
1 Roof Top Ducting Section  
M304 1:50

2 Roof Top Ducting to Upper Penthouse Section  
M304 1:25

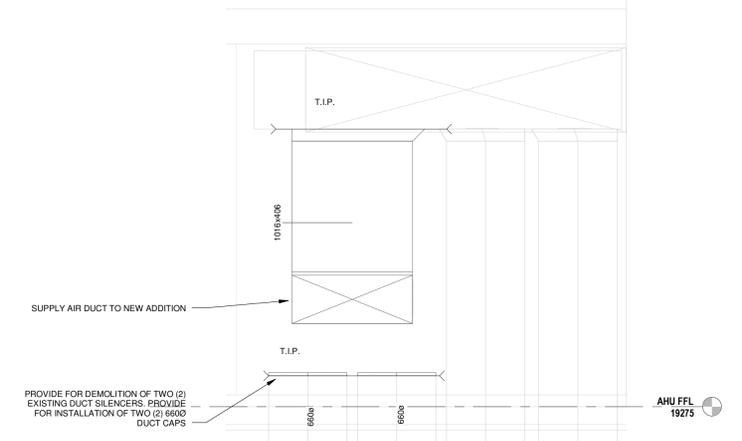
3 Upper Penthouse - Supply & Relief Air Section  
M304 1:25



4 Upper Penthouse - Return Air Section  
M304 1:25



5 Upper Penthouse - Supply Air Section  
M304 1:25



6 Upper Penthouse - Supply Air Section 2  
M304 1:25

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ARCHITECTS LIMITED

PROFESSIONAL ENGINEER  
Sean W. Wheeler  
No. 657  
PRINCE EDWARD ISLAND

Client  
**Prince Edward Island**  
CANADA

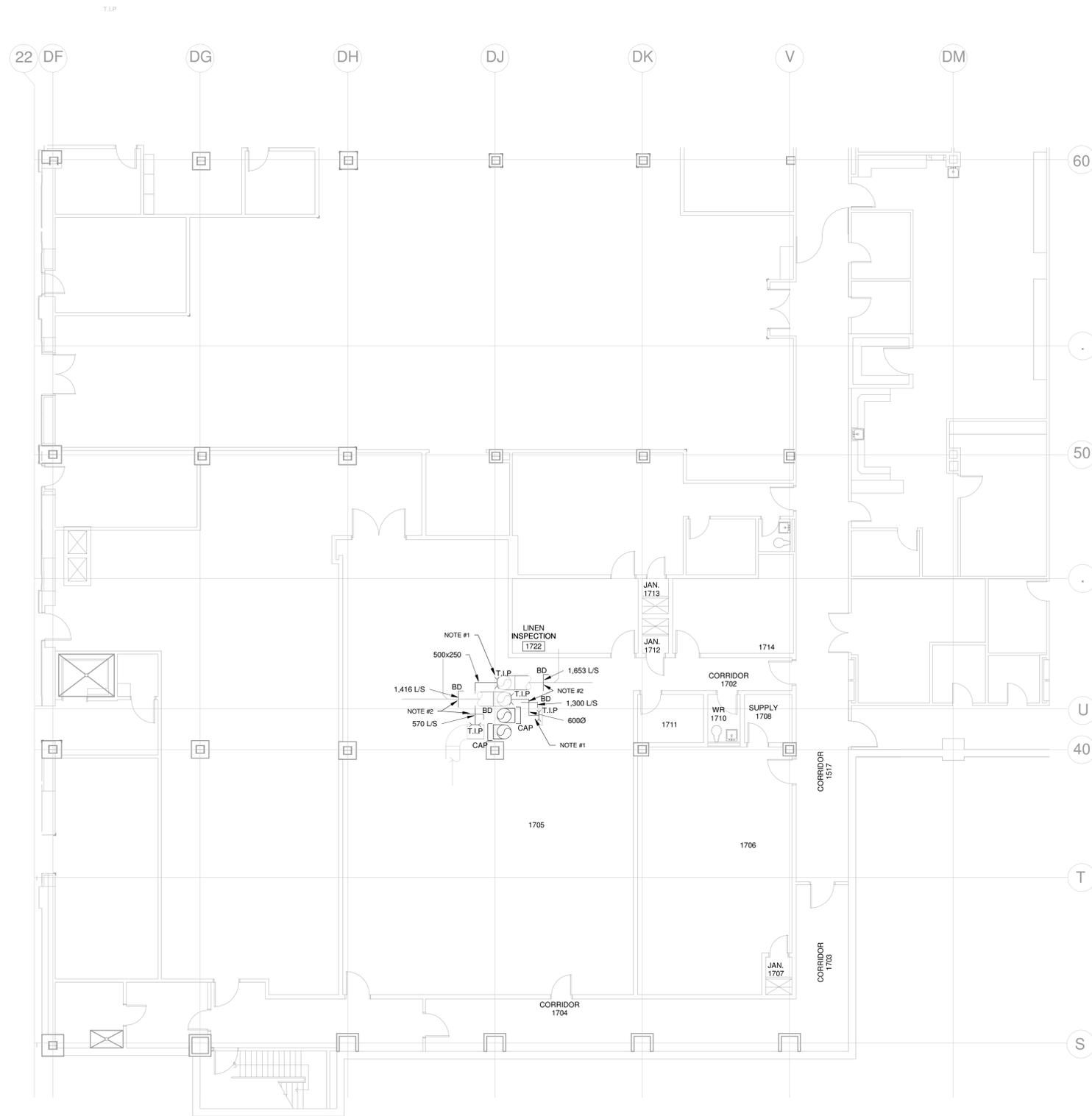
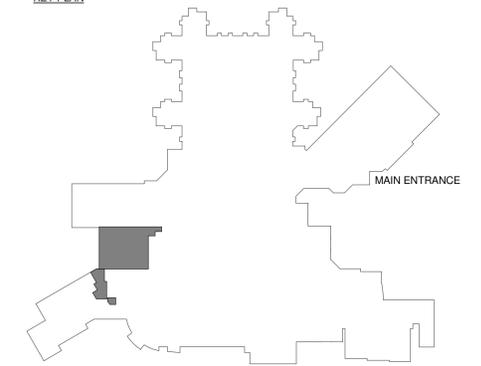
Health & Wellness  
PO Box 2000  
Charlottetown  
Prince Edward Island  
Canada C1A 7N8

Project Title  
**Queen Elizabeth Hospital  
Mental Health & Addictions  
Emergency Department & Short Stay Unit**

Sheet Title  
**Ventilation Sections**

No.	Description	Date	Date:	Revision
0	Issued for Tender	2022-03-22	2022-03-22	0
			Date: 2022-03-22	
			Drn By: A.E.M., E.I.T.	
			Chk By: S.W.W., P.ENG	
			Project Number:	
			<b>211025</b>	
			Drawing Number:	
			<b>M304</b>	

KEY PLAN



NOTES:  
 1. PROVIDE TWO (2) INTERCONNECTIONS BETWEEN DUCTWORK DROPS  
 2. PROVIDE NEW BALANCING DAMPERS IN EXISTING DUCTWORK AS NOTED  
 3. PROVIDE FOR REMOVAL AND REINSTALLATION OF T-BAR CEILING AS REQUIRED TO ACCESS DUCTWORK

**1**  
**M305**  
**Level 100 - Existing Ventilation Modifications**

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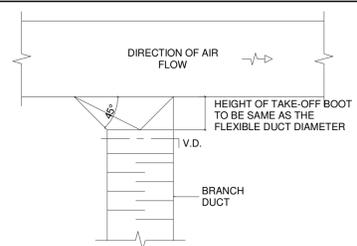
PROFESSIONAL ENGINEER  
 Sean W. Wheeler  
 No. 657  
 PRICE EDWARD ISLAND

Client  
**Prince Edward Island**  
 CANADA  
 Health & Wellness  
 PO Box 2000  
 Charlottetown  
 Prince Edward Island  
 Canada C1A 7N8

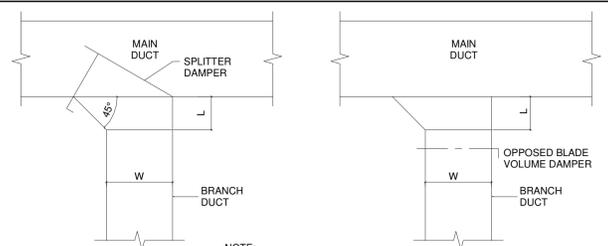
Project Title  
 Queen Elizabeth Hospital  
 Mental Health & Addictions  
 Emergency Department & Short Stay Unit

Sheet Title  
 Level 100 - Existing Ventilation  
 Modification

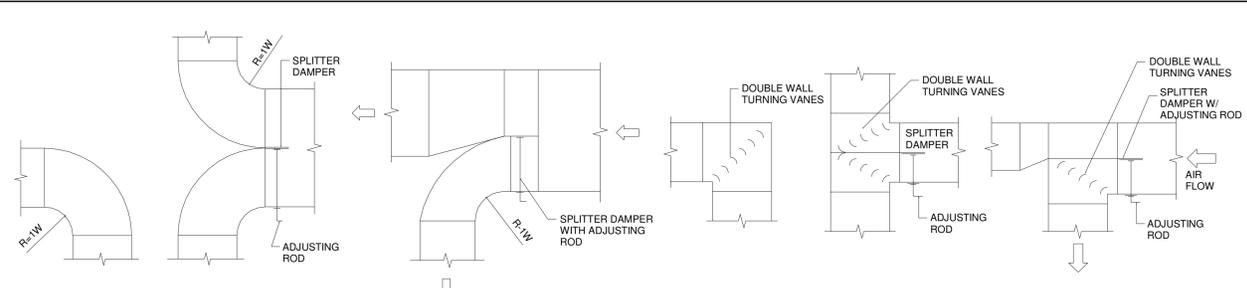
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			Checked By: S.W.W., P.ENG	
			Project Number:	
			<b>211025</b>	
			Drawing Number:	
			<b>M305</b>	



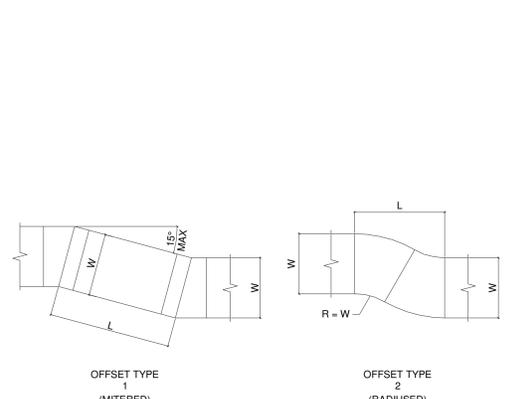
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BRANCH DUCT TAKE OFF DETAIL



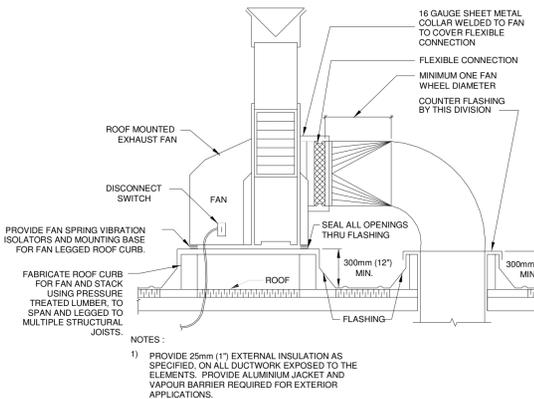
2 M310 NTS  
DUCTING WALL PENETRATION DETAIL



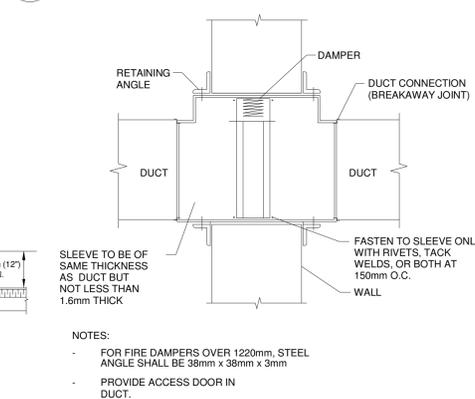
3 M310 NTS  
DUCTWORK ELBOW DETAILS



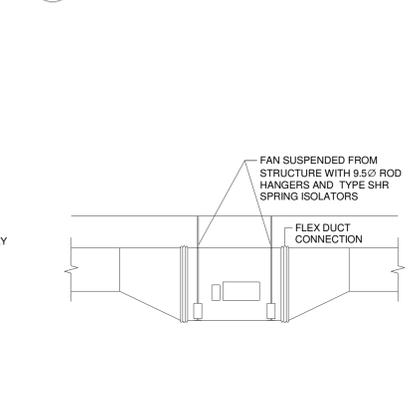
4 M310 NTS  
DUCTWORK OFFSET DETAIL



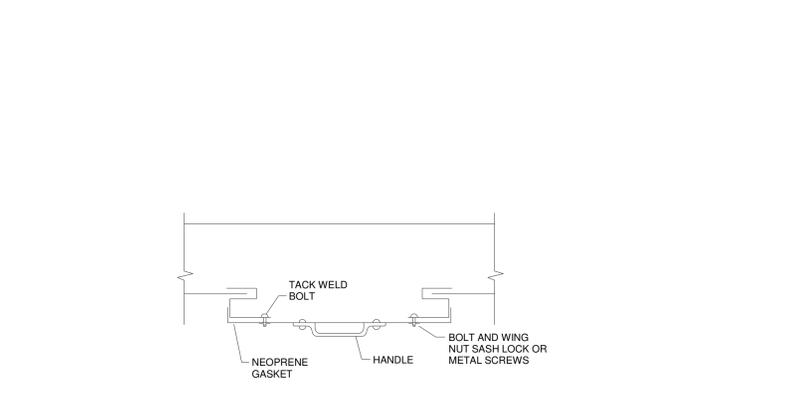
5 M310 NTS  
POWER EXHAUST FAN DETAIL



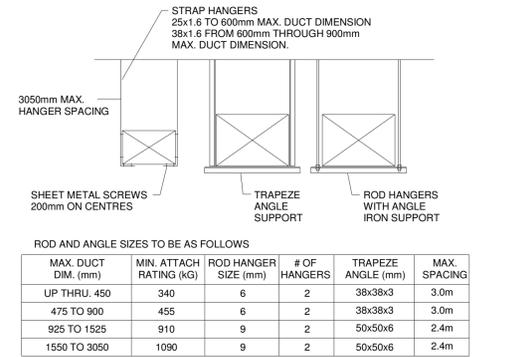
6 M310 NTS  
HORIZONTAL DUCT FIRE DAMPER DETAIL



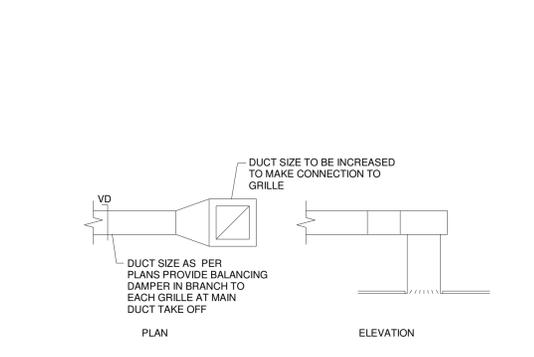
7 M310 NTS  
IN-LINE FAN INSTALLATION DETAIL



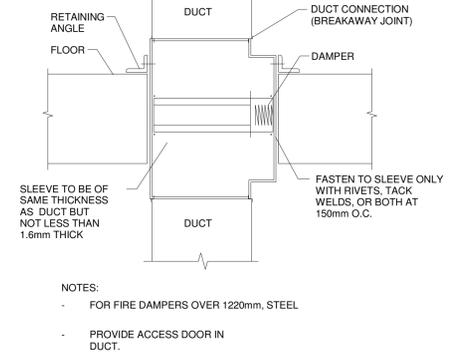
8 M310 NTS  
TYP. ACCESS DOOR UNINSULATED DUCT DETAIL



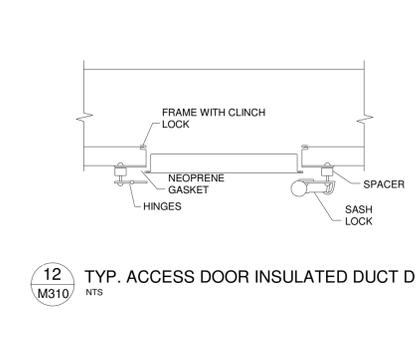
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RECTANGULAR DUCT HANGER DETAIL



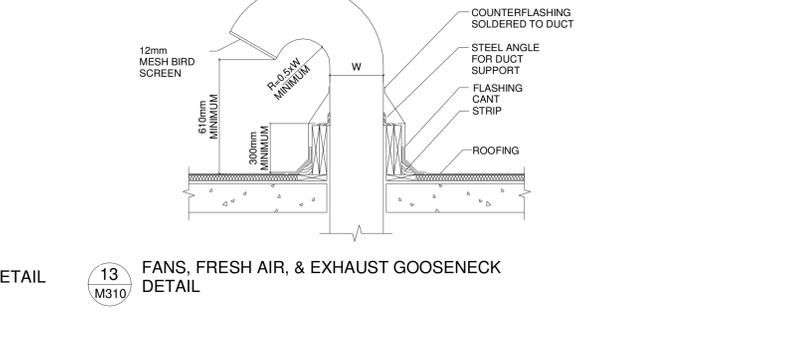
10 M310 NTS  
RETURN/EXHAUST GRILLE CONNECTION DETAIL



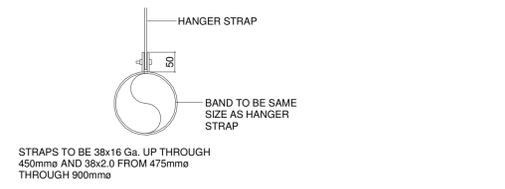
11 M310 NTS  
VERTICAL DUCT FIRE DAMPER DETAIL



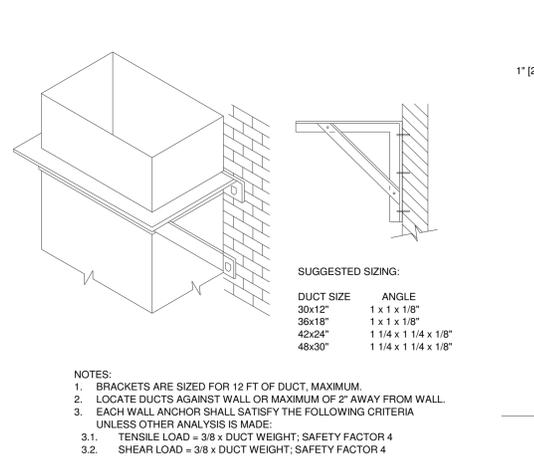
12 M310 NTS  
TYP. ACCESS DOOR INSULATED DUCT DETAIL



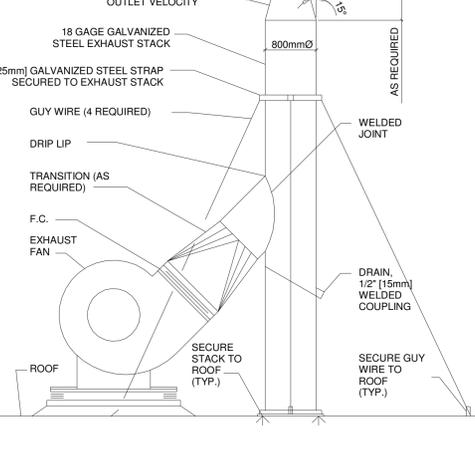
13 M310 NTS  
FANS, FRESH AIR, & EXHAUST GOOSENECK DETAIL



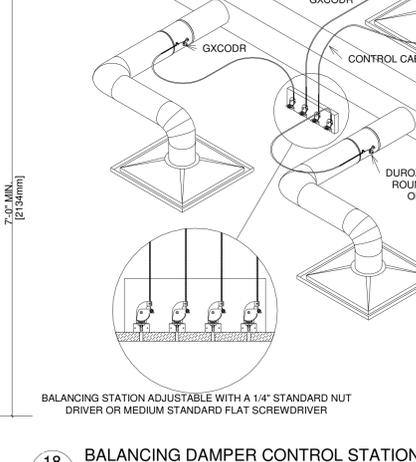
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ROUND DUCT HANGER DETAIL



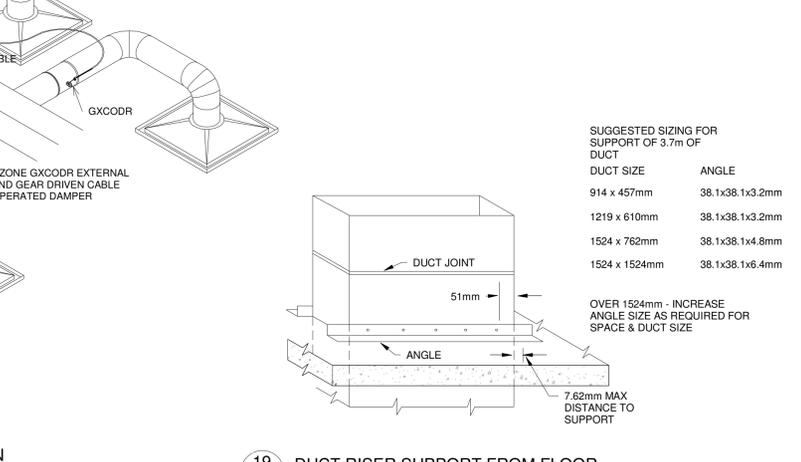
15 M310 NTS  
DUCT & PIPE THRU ROOF DETAIL



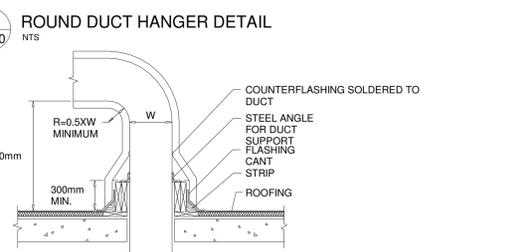
16 M310 NTS  
VERTICAL DUCT SUPPORT



17 M310 NTS  
POWER EXHAUST FAN WITH CURB



18 M310 NTS  
BALANCING DAMPER CONTROL STATION DETAIL



19 M310 NTS  
DUCT RISER SUPPORT FROM FLOOR

ROD AND ANGLE SIZES TO BE AS FOLLOWS

MAX. DUCT DIM. (mm)	MIN. ATTACH RATING (kG)	ROD HANGER SIZE (mm)	# OF HANGERS	TRAPEZE ANGLE (mm)	MAX. SPACING
UP THRU 450	340	6	2	38x38x3	3.0m
475 TO 900	455	6	2	38x38x3	3.0m
925 TO 1525	910	9	2	50x50x6	2.4m
1550 TO 3050	1090	9	2	50x50x6	2.4m

STRAPS TO BE 38x16 Ga. UP THROUGH 450mm AND 38x2.0 FROM 475mm THROUGH 900mm

NOTES:  
1. BRACKETS ARE SIZED FOR 12 FT OF DUCT, MAXIMUM.  
2. LOCATE DUCTS AGAINST WALL OR MAXIMUM OF 2\"/>

SUGGESTED SIZING:  
DUCT SIZE ANGLE  
30x12\"/>

SUGGESTED SIZING FOR SUPPORT OF 3.7m OF DUCT

DUCT SIZE	ANGLE
914 x 457mm	38.1x38.1x3.2mm
1219 x 610mm	38.1x38.1x3.2mm
1524 x 762mm	38.1x38.1x4.8mm
1524 x 1524mm	38.1x38.1x6.4mm

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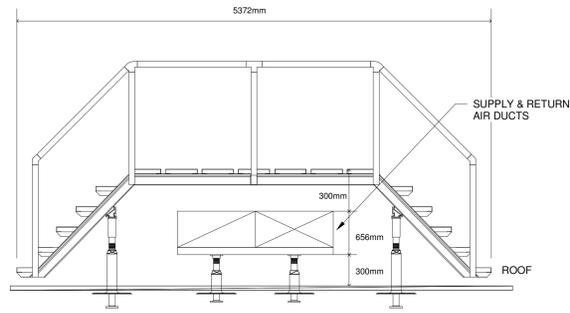
Client  
**Prince Edward Island**  
Health & Wellness  
PO Box 2000  
Charlottetown  
Prince Edward Island  
Canada C1A 7N8

Project Title  
**Queen Elizabeth Hospital  
Mental Health & Addictions  
Emergency Department & Short Stay Unit**

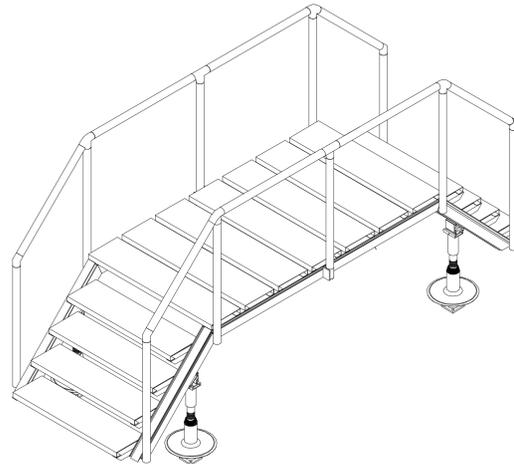
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**Ventilation Details**

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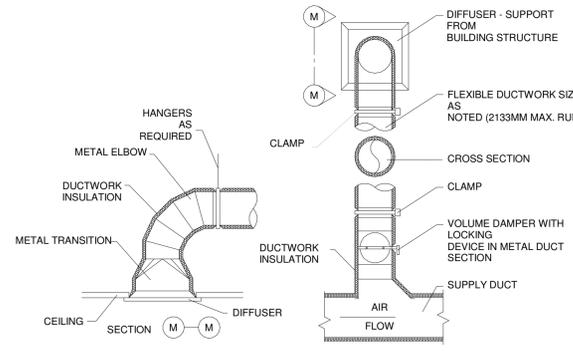
211025  
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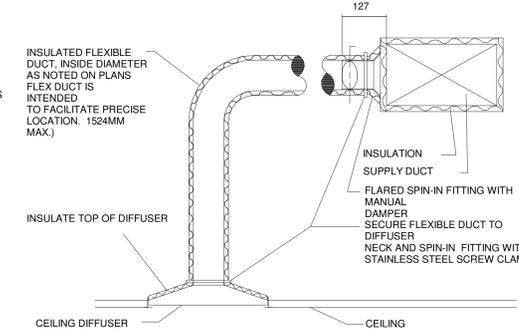
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M311 NTS



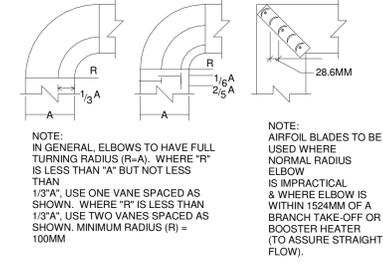
2 DUCT CROSS-OVER STAIR ISOMETRIC  
M311 NTS



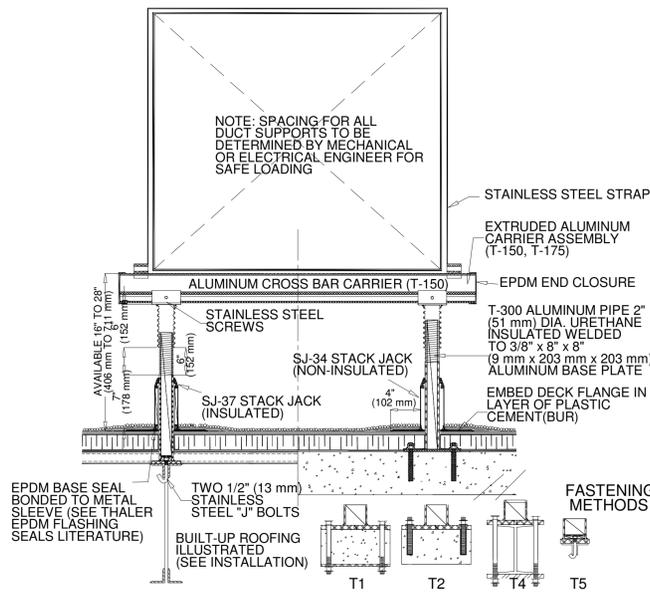
3 TYP. DIFFUSER INSTALLATION  
M311 NTS



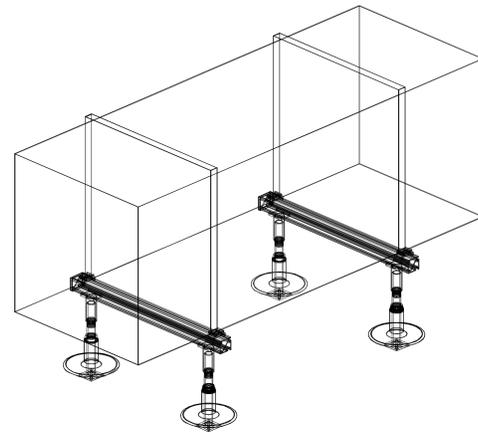
4 CEILING DIFFUSER CONNECTION  
M311 NTS



5 TURNING VANES DETAIL  
M311 NTS



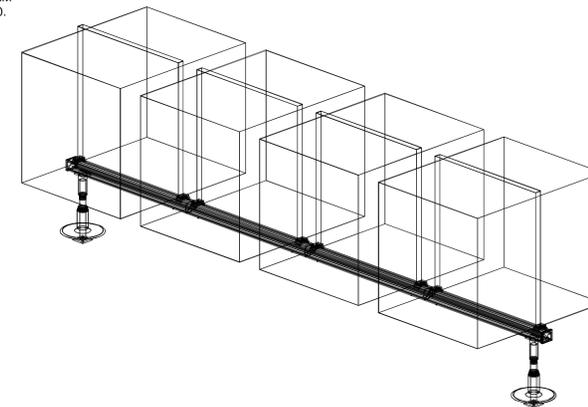
6 ROOF DUCT SUPPORT DETAIL  
M311 NTS



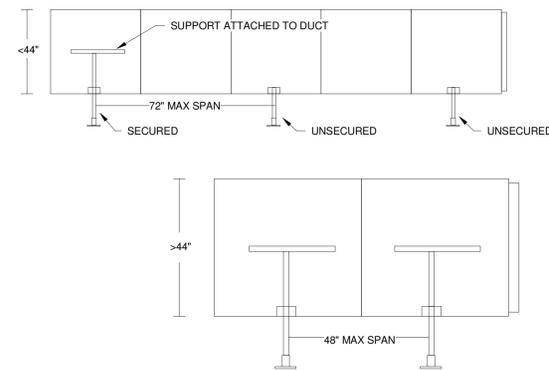
7 ROOF SINGLE DUCT SUPPORT DETAIL ISOMETRIC  
M311 NTS

NOTE: THE FOLLOWING TABLE INDICATES THE ALLOWABLE UNIFORM WORKING LOADS FOR ALUMINUM CROSS BAR CARRIER BEAM T-150. THE BEAM EXTENDS A MINIMUM OF 3" (76 MM) BEYOND THE CENTER LINE OF SUPPORT.

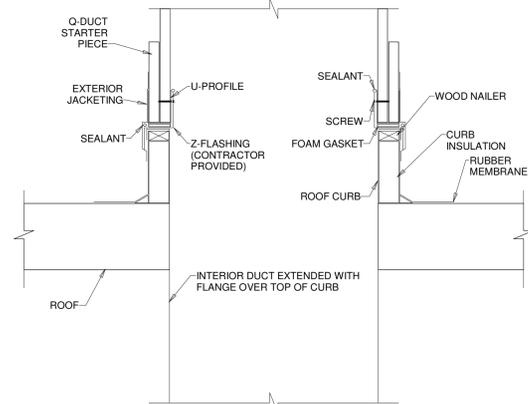
Span	Maximum Uniformly Distributed Load	Total Load
3'-0" (914 mm)	900 plf (13 kN/m)	2700 lbs (12.15 kN)
4'-0" (1219 mm)	675 plf (9.8 kN/m)	2700 lbs (12.15 kN)
5'-0" (1524 mm)	540 plf (7.9 kN/m)	2700 lbs (12.15 kN)
6'-0" (1829 mm)	450 plf (6.6 kN/m)	2700 lbs (12.15 kN)
7'-0" (2133 mm)	330 plf (4.8 kN/m)	2310 lbs (10.39 kN)
8'-0" (2438 mm)	250 plf (3.6 kN/m)	2000 lbs (9kN)
9'-0" (2743 mm)	200 plf (2.9 kN/m)	1800 lbs (8.1 kN)
10'-0" (3048 mm)	160 plf (2.3 kN/m)	1600 lbs (7.2 kN)



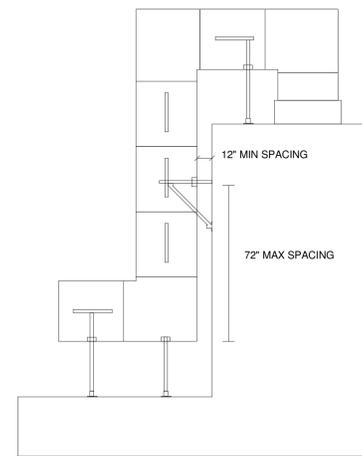
8 ROOF MULTIPLE DUCT SUPPORT DETAIL ISOMETRIC  
M311 NTS



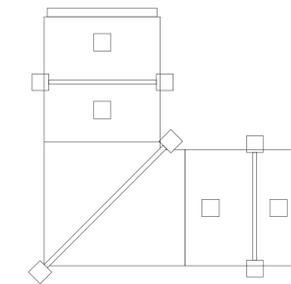
9 Q-DUCT HORIZONTAL SUPPORT SPACING  
M311 NTS



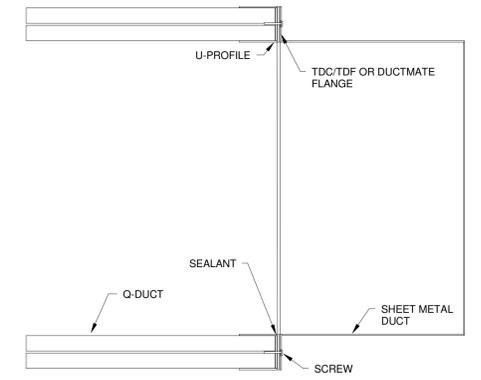
10 Q-DUCT ROOF CURB DETAIL  
M311 NTS



11 Q-DUCT VERTICAL SUPPORT SPACING  
M311 NTS



12 Q-DUCT ELBOW SUPPORT PLACEMENT  
M311 NTS



13 Q-DUCT TDC/TDF DUCT CONNECTION  
M311 NTS

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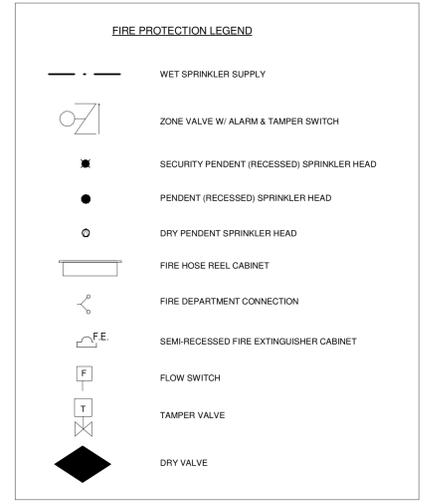
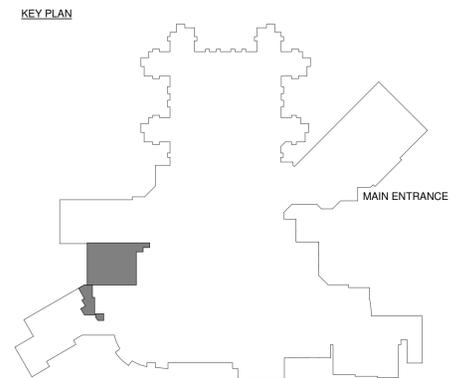
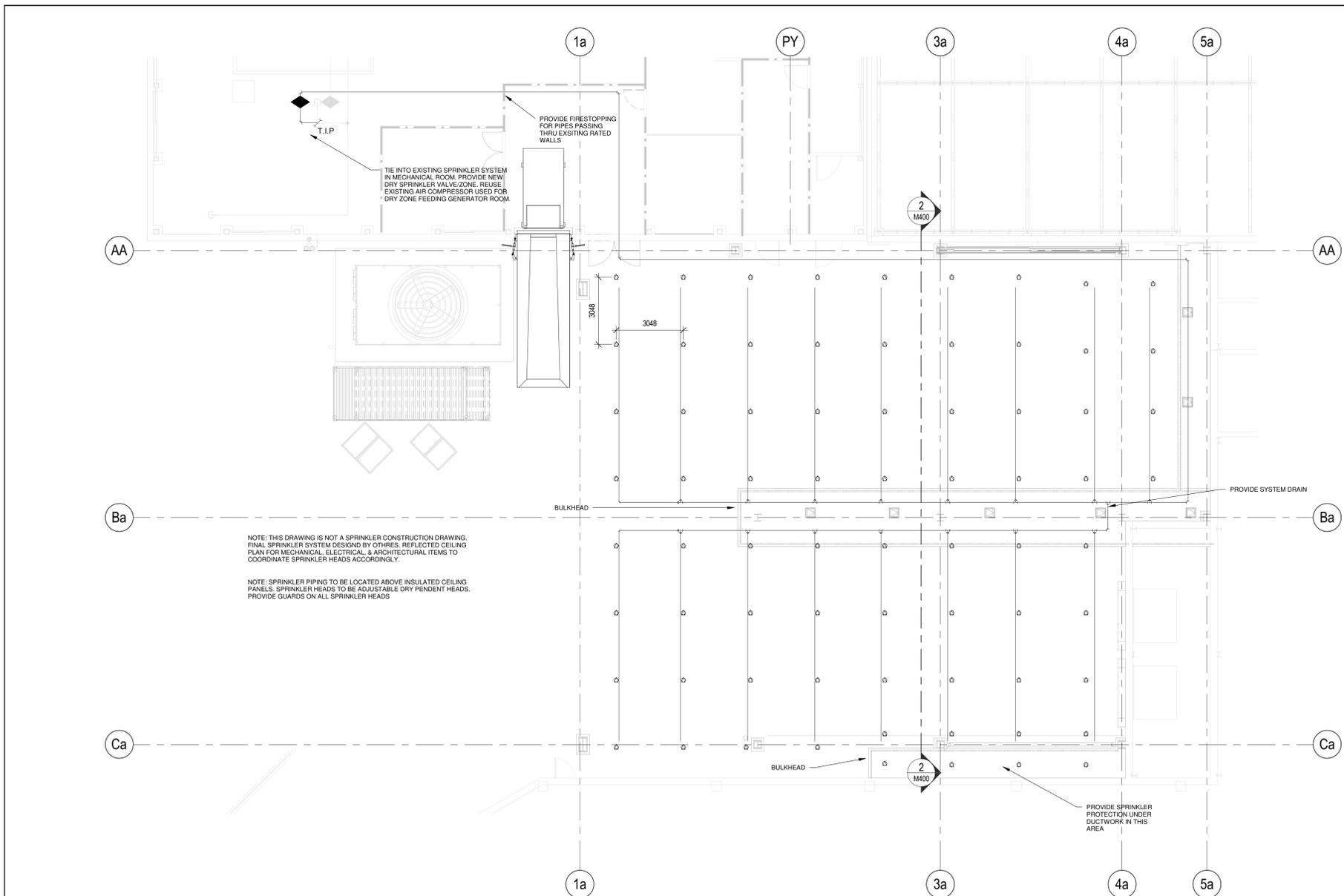
PROFESSIONAL ENGINEER  
Sean W. Wheeler  
No. 657  
PRINCE EDWARD ISLAND

Client  
**Prince Edward Island**  
Health & Wellness  
PO Box 2000  
Charlottetown  
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Canada C1A 7N8

Project Title  
Queen Elizabeth Hospital  
Mental Health & Addictions  
Emergency Department & Short Stay Unit

Sheet Title  
Ventilation Details

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			Drawn By: A.E.M., E.I.T.	
			Checked By: S.W.W., P.ENG	
			Project Number:	211025
			Drawing Number:	M311

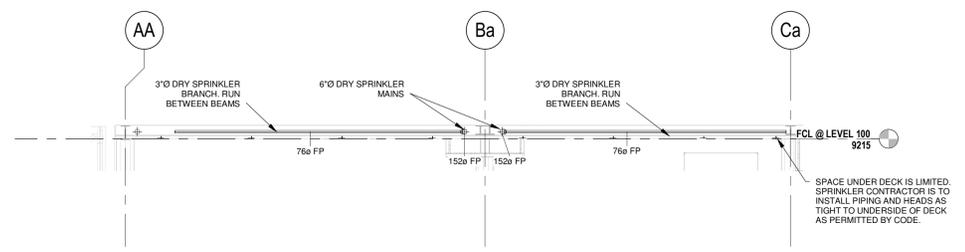


NOTE: THIS DRAWING IS NOT A SPRINKLER CONSTRUCTION DRAWING. FINAL SPRINKLER SYSTEM DESIGN BY OTHERS. REFLECTED CEILING PLAN FOR MECHANICAL, ELECTRICAL, & ARCHITECTURAL ITEMS TO COORDINATE SPRINKLER HEADS ACCORDINGLY.

NOTE: SPRINKLER PIPING TO BE LOCATED ABOVE INSULATED CEILING PANELS. SPRINKLER HEADS TO BE ADJUSTABLE DRY PENDENT HEADS. PROVIDE GUARDS ON ALL SPRINKLER HEADS.

- GENERAL SPRINKLER NOTES**
1. CONTRACTOR IS RESPONSIBLE TO DESIGN THE SPRINKLER SYSTEM IN COORDINATION WITH OTHER TRADES. ENSURE ALL SPACES ARE PROTECTED AS PER CODE AND TO THE SATISFACTION OF THE AHJ.
  2. REFERENCE TO SPRINKLER SYSTEMS WITHIN THESE DRAWINGS ARE ONLY PROVIDED TO AID IN LOCATING THE PIPING ON SITE AND ARE NOT FOR CONSTRUCTION. ALL SPRINKLER SYSTEM INFORMATION SHOWN IS ONLY APPROXIMATION. CONTRACTOR IS RESPONSIBLE TO ENSURE ALL SPACES ARE PROTECTED AS PER CODE.
  3. LOCATION OF SPRINKLER HEADS TO BE COORDINATED WITH REFLECTED CEILING PLAN. CONTRACTOR RESPONSIBLE TO REFER TO ARCHITECTURAL ROOM FINISH SCHEDULE FOR ROOM LAYOUTS, CEILING CONSTRUCTION, MOUNTING CEILING HEIGHTS, ETC. SEE ARCH.
  4. SPRINKLER CONTRACTOR SHALL PREPARE SHOP DRAWINGS WITHIN 15 DAYS OF CONTRACT AWARD TO THE SATISFACTION OF THE AUTHORITY HAVING JURISDICTION.
  5. CONTRACTOR IS RESPONSIBLE FOR HYDRAULICALLY SIZING ALL SPRINKLER COMPONENTS.
  6. CONTRACTOR SHALL REVIEW THE ARCHITECTURAL SET OF CONSTRUCTION PLANS IN CONJUNCTION WITH ANY SITE VISITS REQUIRED TO CONFIRM EXISTING CONDITIONS PRIOR TO TENDER. CLOSE TO CONFIRM REQUIRED SPRINKLER HEAD LOCATIONS AND QUANTITY, AND ALL REQUIRED WORK AS INTENDED BY THIS PLAN. NO COST INCREASE WILL BE GIVEN FOR FAILURE TO MAKE THIS REVIEW.
  7. ABOVE ALL ELSE, CONTRACTOR IS RESPONSIBLE FOR ALL WORK IN ORDER TO PROVIDE AND ENSURE THAT ALL AREAS IN THE NEW SPACES ARE PROTECTED ACCORDING TO CODE AND TO MAINTAIN PROTECTION FOR ANY REVISED SPRINKLER WORK OUTSIDE OF SPACE, WHERE REVISIONS TO EXISTING BUILDING SPRINKLER SYSTEM ARE REQUIRED FOR ANY REASON. PROVIDE WRITTEN GUARANTEE FOR SAME AS REQUIRED BY A.H.J. SHOP DRAWINGS MUST BE APPROVED PRIOR TO COMMENCING WORK. CONSULTANT RESERVES THE RIGHT TO ACCEPT OR MODIFY THE SHOP DRAWINGS AT ANY TIME.
  8. REFER TO ARCH. DRAWINGS FOR LOCATION OF ALL FIRE RATED WALLS, CEILING, AND FLOOR ASSEMBLIES. PROVIDE FIRE STOPPING AS REQUIRED BY N.B.C.
  9. CONTRACTOR IS RESPONSIBLE FOR LOCATING HEADS IN NEW OR EXISTING AREAS AS REQUIRED BY CODES. CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH G.C. FOR FINAL LOCATION OF ALL PIPING.
  10. PROVIDE ANY REQUIRED FLOW SWITCHES AND ZONE VALVES AS REQUIRED BY CODE. PROVIDE ELECTRICAL WORK REQUIRED TO POWER THESE ITEMS AND ANY OTHER ITEMS UNDER THE WORK OF THIS CONTRACT. COORDINATE WITH G.C.
  11. DRAWING ONLY INDICATES SUGGESTED PATH OF NEW RISERS AND MAIN LINES. CONTRACTOR IS RESPONSIBLE FOR LOCATING HEADS AS PER CODE. CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH G.C. TO FIND LOADS OF ALL PIPING.
  12. CONTRACTOR SHALL COORDINATE ALL WORK WITH ALL OTHER TRADES AS CEILING SPACE IS VERY LIMITED.
  13. FIRE EXTINGUISHERS OF THE CLASS REQUIRED FOR EACH AREA IN THE BUILDING SHALL BE SUPPLIED AND INSTALLED BY THIS CONTRACTOR, IN ACCORDANCE WITH NFPA 10 AND TO THE SATISFACTION OF THE AHJ AS NOTED IN THE SPECIFICATION.

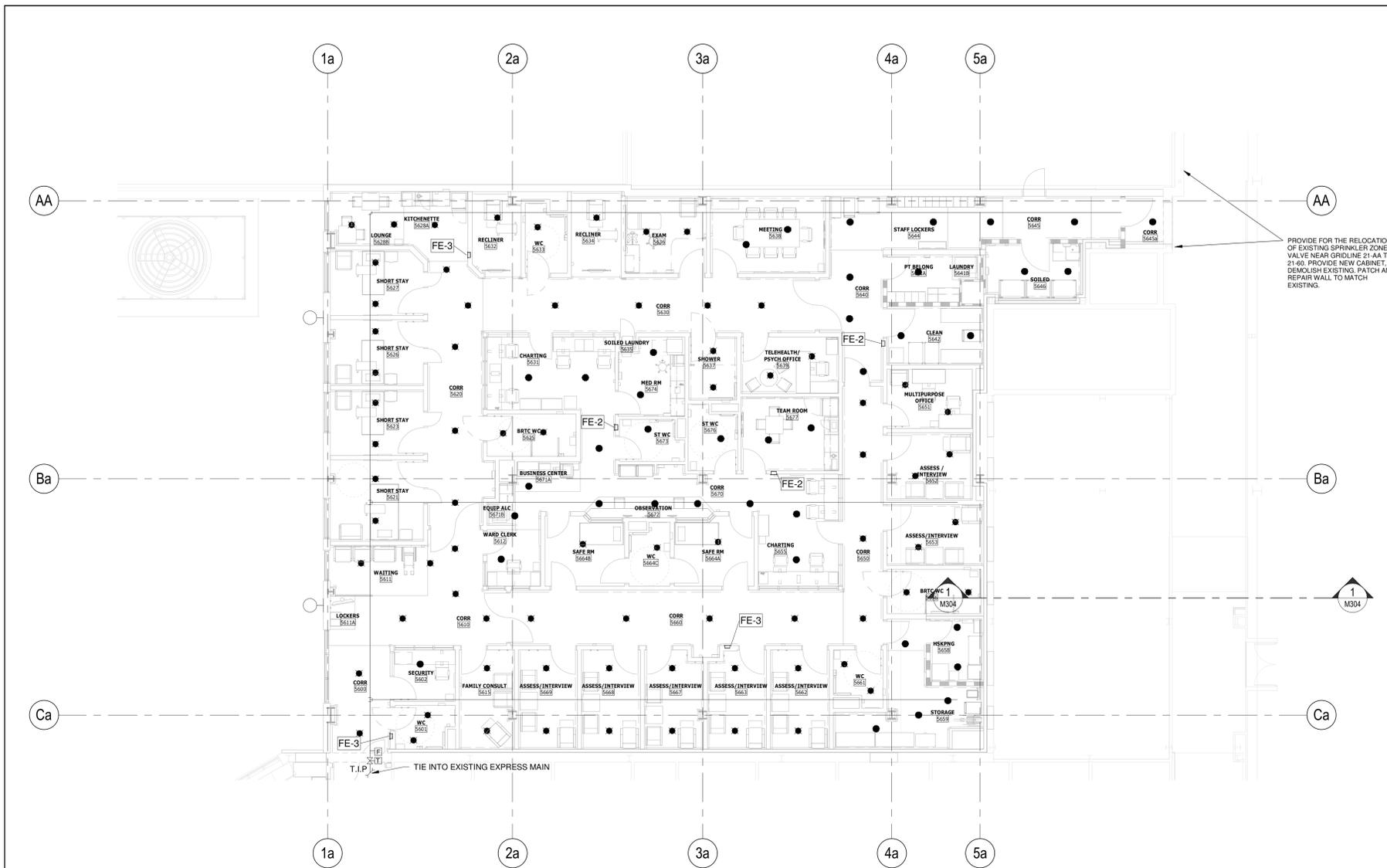
**1 Level 100 - Sprinkler**  
M400 1:100



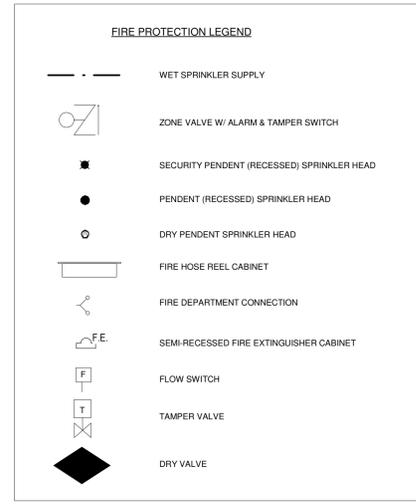
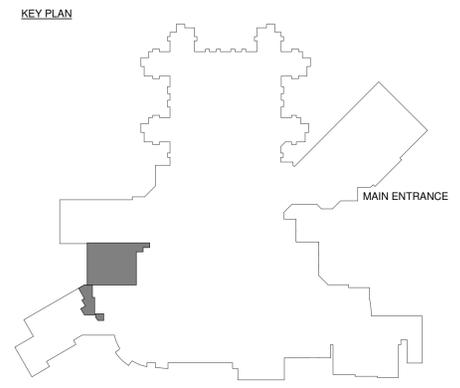
**2 First Floor - Sprinkler Section**  
M400 1:100

	Suite 201, 85 Fitzroy Street Charlottetown, P.E.I., Canada, C1A 1R6 Phone: (902) 368-2300 www.colesassociates.com			Client <b>Prince Edward Island</b> Health & Wellness PO Box 2000 Charlottetown Prince Edward Island Canada C1A 7N8	Project Title <b>Queen Elizabeth Hospital</b> Mental Health & Addictions Emergency Department & Short Stay Unit	Sheet Title <b>Level 100 Sprinkler</b>	No.	Description	Date	Date:	Revision
							0	Issued for Tender	2022-03-22	2022-03-22	0
									Drawn By: A.E.M., E.I.T. Chk By: S.W.W., P.Eng. Project Number: <b>211025</b> Drawing Number: <b>M400</b>		

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PROVIDE FOR THE RELOCATION OF EXISTING SPRINKLER ZONE VALVE NEAR GRIDLINE 21-AA TO 21-60. PROVIDE NEW CABINET, DEMOLISH EXISTING, PATCH AND REPAIR WALL TO MATCH EXISTING.



- GENERAL SPRINKLER NOTES**
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  4. SPRINKLER CONTRACTOR SHALL PREPARE SHOP DRAWINGS WITHIN 15 DAYS OF CONTRACT AWARD TO THE SATISFACTION OF THE AUTHORITY HAVING JURISDICTION.
  5. CONTRACTOR IS RESPONSIBLE FOR HYDRAULICALLY SIZING ALL SPRINKLER COMPONENTS.
  6. CONTRACTOR SHALL REVIEW THE ARCHITECTURAL SET OF CONSTRUCTION PLANS IN CONJUNCTION WITH ANY SITE VISITS REQUIRED TO CONFIRM EXISTING CONDITIONS PRIOR TO TENDER CLOSE TO CONFIRM REQUIRED SPRINKLER HEAD LOCATIONS AND QUANTITY, AND ALL REQUIRED WORK AS INTENDED BY THIS PLAN. NO COST INCREASE WILL BE GIVEN FOR FAILURE TO MAKE THIS REVIEW.
  7. ABOVE ALL ELSE, CONTRACTOR IS RESPONSIBLE FOR ALL WORK IN ORDER TO PROVIDE AND ENSURE THAT ALL AREAS IN THE NEW SPACES ARE PROTECTED ACCORDING TO CODE AND TO MAINTAIN PROTECTION FOR ANY REVISED SPRINKLER WORK OUTSIDE OF SPACE. WHERE REVISIONS TO EXISTING BUILDING SPRINKLER SYSTEM ARE REQUIRED FOR ANY REASON, PROVIDE WRITTEN GUARANTEE FOR SAME AS REQUIRED BY A.H.J. SHOP DRAWINGS MUST BE APPROVED PRIOR TO COMMENCING WORK. CONSULTANT RESERVES THE RIGHT TO ACCEPT OR MODIFY THE SHOP DRAWINGS AT ANY TIME.
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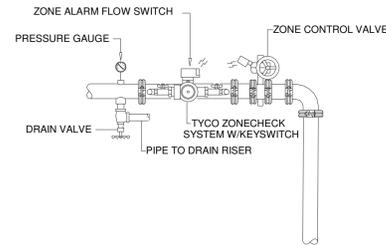
Client  
**Prince Edward Island**  
CANADA

Health & Wellness  
PO Box 2000  
Charlottetown  
Prince Edward Island  
Canada C1A 7N8

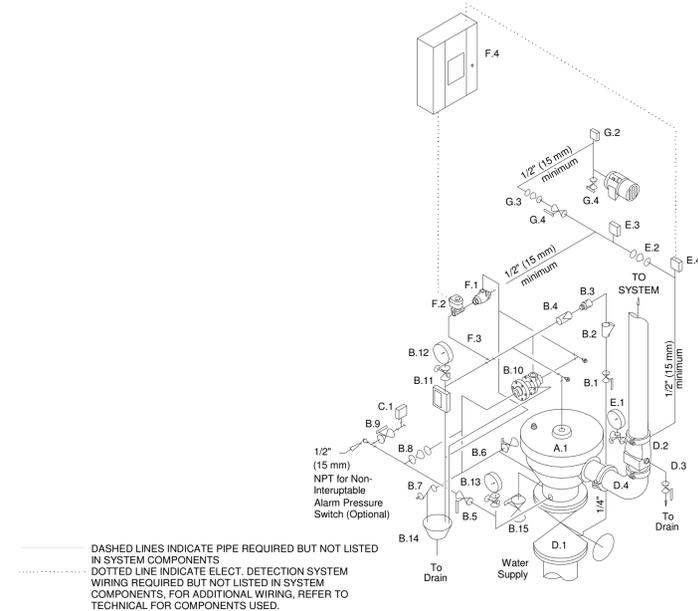
Project Title  
Queen Elizabeth Hospital  
Mental Health & Addictions  
Emergency Department & Short Stay Unit

Sheet Title  
Level 200 Sprinkler

No.	Description	Date	Date:	Revision
0	Issued for Tender	2022-03-22	2022-03-22	0
			Drawn By: A.E.M., E.I.T.	
			Checked By: S.W.W., P.ENG	
			Project Number: <b>211025</b>	
			Drawing Number: <b>M401</b>	

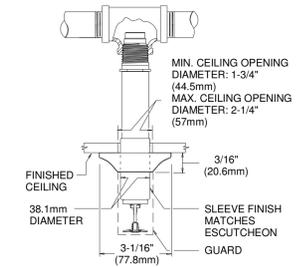


1 TYP. SPRINKLER ZONE DETAIL  
M410 NTS

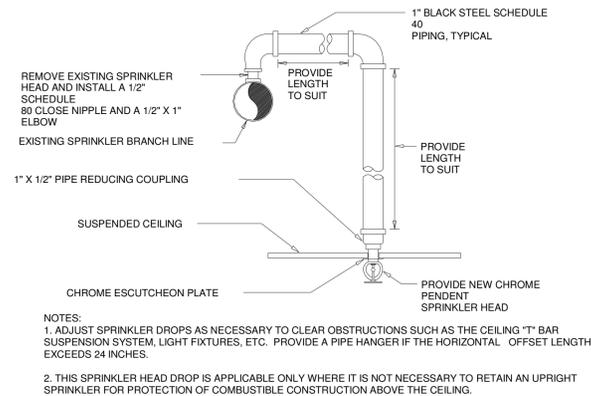


2 DRY SPRINKLER VALVE DETAIL  
M410 NTS

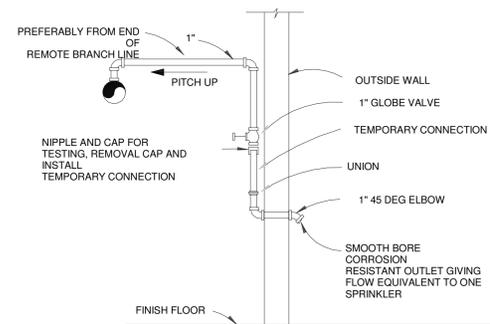
- SYSTEM COMPONENTS
- A. VALVE
    - A.1 DELUGE VALVE
  - B. DELUGE VALVE CONVENTIONAL TRIM (SEE DELUGE VALVE CONVENTIONAL TRIM CHARTS)
    - B.1 PRIMING VALVE (NORMALLY OPEN)
    - B.2 STRAINER
    - B.3 1/16" RESTRICTION
    - B.4 SPRING LOADED CHECK VALVE
    - B.5 ALARM TEST VALVE (NORMALLY CLOSED)
    - B.6 AUXILIARY DRAIN VALVE (NORMALLY CLOSED)
    - B.7 DRIP CHECK VALVE
    - B.8 DRIP CHECK VALVE
    - B.9 ALARM SHUT-OFF VALVE (NORMALLY CLOSED)
    - B.10 PRESSURE OPERATED RELIEF VALVE (P.O.R.V)
    - B.11 EMERGENCY RELEASE
    - B.12 PRIMING PRESSURE WATER GAUGE AND VALVE
    - B.13 WATER SUPPLY PRESSURE GAUGE AND VALVE
    - B.14 DRAIN CUP
    - B.15 FLOW TEST VALVE (NORMALLY CLOSED)
  - C. WATER FLOW ALARM EQUIPMENT
    - C.1 ALARM PRESSURE SWITCH AND/OR
  - D. RISER
    - D.1 WATER SUPPLY CONTROL VALVE
    - D.2 EASY RISER CHECK VALVE OR RUBBER SEATED CHECK VALVE
    - D.3 SPRINKLER SYSTEM MAIN DRAIN
    - D.4 90 DEG. ELL. (GROOVED ELL. SHOWN DELUGE VALVE ALSO AVAILABLE WITH FLANGED OUTLET)
  - E. SUPERVISORY AIR SUPPLY
    - E.1 SYSTEM PRESSURE GAUGE AND VALVE
    - E.2 SOFT SEAT SWING CHECK VALVE
    - E.3 AIR PRESSURE SUPERVISORY SWITCH
    - E.4 VERY LOW AIR PRESSURE SWITCH
  - F. RELEASE SYSTEM
    - F.1 PNEUMATIC ACTUATOR
    - F.2 SOLENOID VALVE (NORMALLY CLOSED)
    - F.3 ELECTRIC/PNEUMATIC RELEASE MODULE TRIM
    - F.4 PREACTION SYSTEM CONTROL PANEL
  - G. AIR SUPPLY
    - G.1 AIR COMPRESSOR
    - G.2 AIR SUPERVISORY PRESSURE SWITCH (COMPRESSOR ON/OFF CONTROL SWITCH)
    - G.3 SOFT SEAT CHECK VALVE
    - G.4 SHUT OFF VALVE (INDICATING BALL VALVE RECOMMENDED)



3 ADJUSTABLE DRY PENDENT SPRINKLER  
M410 NTS



4 TYP. PENDENT SPRINKLER HEAD INSTALL DETAIL  
M410 NTS



5 TYP. SPRINKLER TEST CONNECTION DETAIL  
M410 NTS

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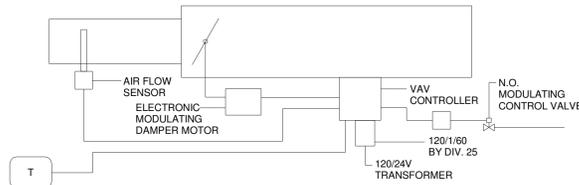
Client  
**Prince Edward Island**  
CANADA

Health & Wellness  
PO Box 2000  
Charlottetown  
Prince Edward Island  
Canada C1A 7N8

Project Title  
Queen Elizabeth Hospital  
Mental Health & Addictions  
Emergency Department & Short Stay Unit

Sheet Title  
Fire Protection Details

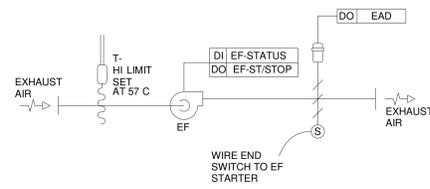
No.	Description	Date	Date:	Revision
0	Issued for Tender	2022-03-22	2022-03-22	0
			Date: 2022-03-22	
			Drn By: A.E.M., E.I.T.	
			Chk By: S.W.W., P.ENG	
			Project Number:	
			<b>211025</b>	
			Drawing Number:	
			<b>M410</b>	



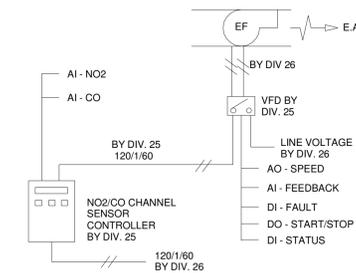
ROOM TEMPERATURE SENSOR C/W TEMPERATURE INDICATOR, SET POINT ADJUSTMENT, PHONE JACK FOR COMMUNICATION TO VAV CONTROLLER, & MOMENTARY PUSH BUTTON OVERRIDE FOR DAY/NIGHT.

- NOTES:
- DAMPER MOTOR, CONTROLLER, VELOCITY PRESSURE SENSOR, AND TRANSFORMER TO BE SUPPLIED BY SECTION 25900 AND MOUNTED ON VAV BOXES AT THE FACTORY.
  - OPERATOR SHALL BE ABLE TO MONITOR AND ADJUST CONTROLLER WITH A HANDHELD TERMINAL OR COMPUTER THROUGH A JACK AT THE SPARE SENSOR, IN ADDITION TO THE CONTROL WORK STATION. INFORMATION AVAILABLE TO THE EMCS:
    - SPACE TEMPERATURE
    - SPACE TEMPERATURE SET POINT
    - BOX ACTUAL CFM
    - BOX CFM SETPOINT
    - MIN. & MAX. CFM SETPOINT

1 CV BOX AND RADITION CONTROL SCHEMATIC  
M500 NTS

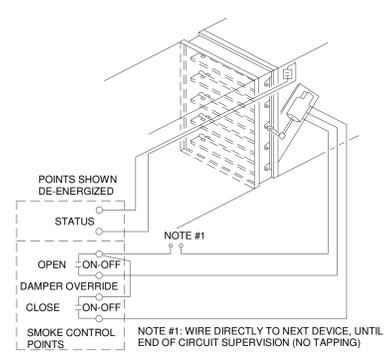


2 TYP. EXHAUST FAN CONTROL DETAIL  
M500 NTS

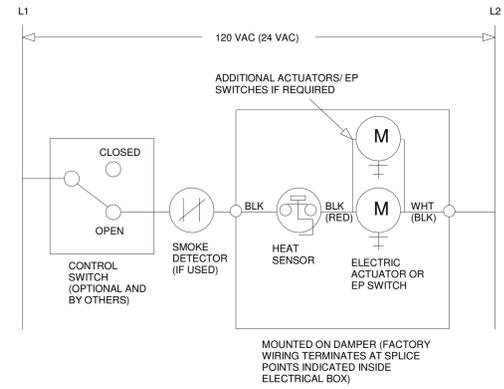


- NOTES:
- ALL LOW VOLTAGE WIRING BY DIV. 23
  - SUPPLY LOUVER & EXHAUST FANS TO BE WIRED FOR MANUAL OPERATION OVERRIDE

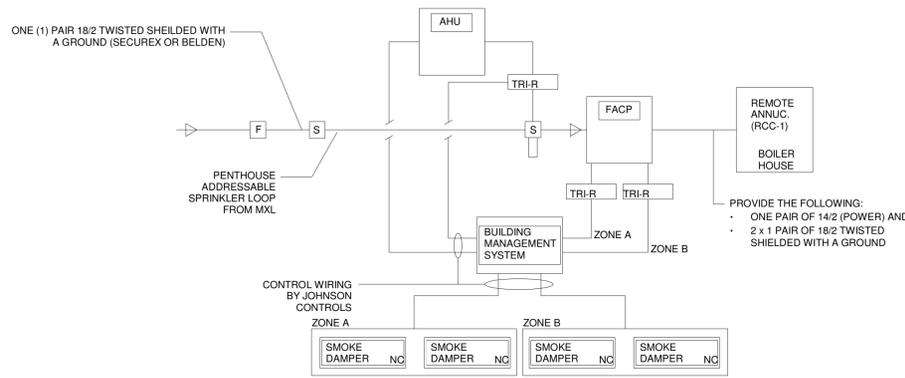
3 GAS DETECTOR WITH EXHAUST FAN CONTROL DETAIL (TYP. 2 PLACES)  
M500



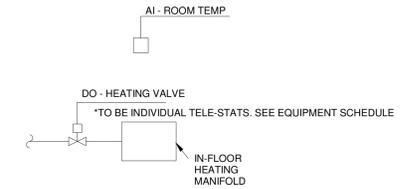
4 SMOKE CONTROL DAMPER DETAIL  
M500 NTS



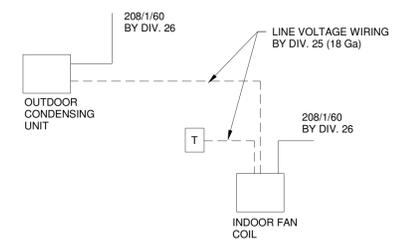
5 WIRING DIAGRAM FOR SMOKE DAMPERS  
M500 NTS



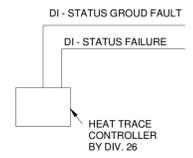
5 WIRING DIAGRAM FOR SMOKE DAMPERS  
M500 NTS



6 IN-FLOOR HEATING CONTROL SCHEMATIC  
M500 NTS



7 A/C UNIT CONTROL SCHEMATIC (EXISTING TO BE RELOCATED)  
M500



8 HEAT TRACE CONTROLS MONITORING  
M500 NTS



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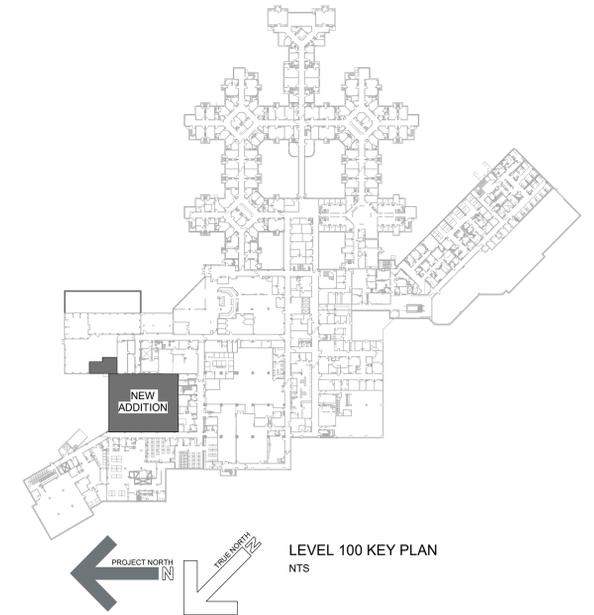
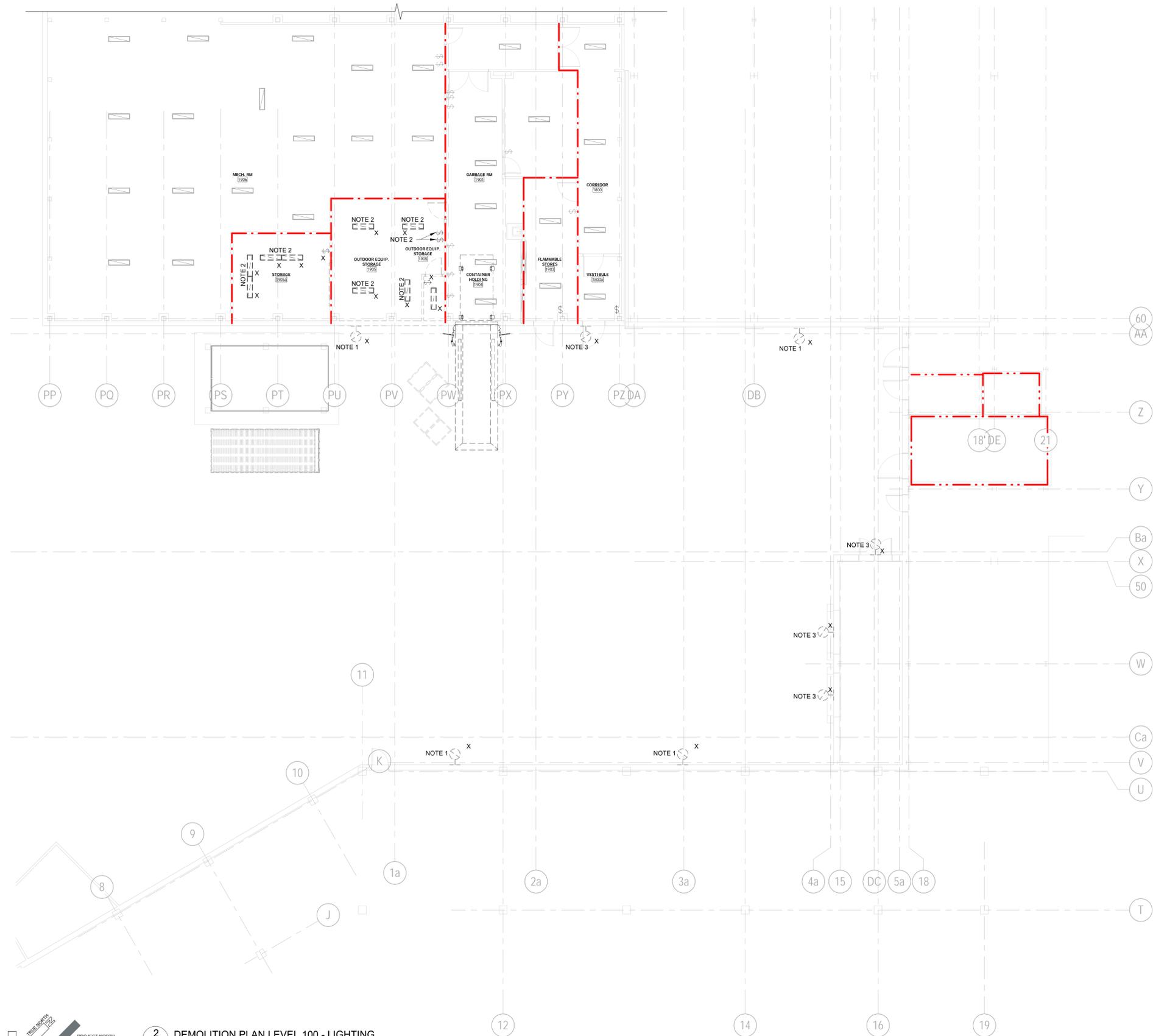
Client  
Health & Wellness  
PO Box 2000  
Charlottetown  
Prince Edward Island  
Canada C1A 7N8

Project Title  
Queen Elizabeth Hospital  
Mental Health & Addictions  
Emergency Department & Short Stay Unit

Sheet Title  
Control Details

No.	Description	Date	Date:	Revision
0	Issued for Tender	2022-03-22	2022-03-22	0
			Drawn By: A.E.M., E.I.T.	
			Checked By: S.W.W., P.ENG	
			Project Number:	211025
			Drawing Number:	M500





**GENERAL NOTES**

1. THE PLANS FOR THE WORK ACCOMPANYING THESE SPECIFICATIONS ARE MADE AS ACCURATELY AS POSSIBLE, BUT ABSOLUTE ACCURACY OF DIMENSIONS CANNOT BE GUARANTEED. THEY ARE INTENDED TO SUPPLEMENT AND SIMPLIFY THE GENERAL CONTRACT DRAWINGS. NO CLAIMS FOR EXTRA PAYMENT ON ACCOUNT OF THE DIFFERENCE OF ACTUAL AND ESTIMATED DIMENSIONS WILL BE ALLOWED. CONTRACTOR CONFIRM EXISTING CONDITIONS ON SITE.

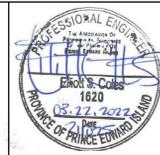
**DEMOLITION NOTES**

1. TRACE OUT, DISCONNECT AND REMOVE LUMINAIRE AND ALL ASSOCIATED BRANCH CIRCUIT WIRING AND ELECTRICAL BACK TO SOURCE. PROVIDE FOR ALL CUTTING, PATCHING AND PAINTING ASSOCIATED WITH REMOVAL AND REMEDIATION. COORDINATE REPAIR OF EXTERIOR FACADE WITH GENERAL CONTRACTOR.
2. TRACE OUT, DISCONNECT AND REMOVE LUMINAIRE, LIGHT SWITCH AND ALL SWITCHED SIDE WIRING BETWEEN LUMINAIRE AND SWITCH. EXISTING DEVICE BOX TO REMAIN AND 120V BRANCH CIRCUIT WIRING TO BE LABELED AND CAPPED FOR FUTURE USE.
3. EXISTING LOADING AREA FACADE LUMINAIRES TO BE REPLACED WITH NEW AND REWIRED SUCH THAT THEY ARE SWITCHED THROUGH NEW EXTERIOR LIGHTING CONTRACTOR. REFERENCE DETAIL E601.

**2** DEMOLITION PLAN LEVEL 100 - LIGHTING  
1:100

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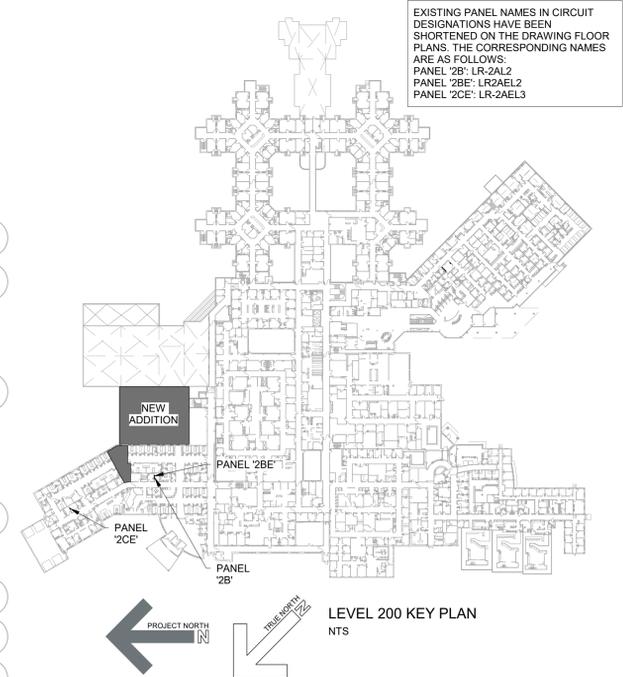


Client  
**Prince Edward Island**  
Health & Wellness  
PO Box 2000  
Charlottetown  
Prince Edward Island  
Canada C1A 7N8

Project Title  
**Queen Elizabeth Hospital  
Mental Health & Addictions  
Emergency Department & Short Stay Unit**

Sheet Title  
**Demolition Plan Level 100 -  
Lighting**

No.	Description	Date	Date:	Revision
0	Issued for Tender	2022-03-22	2022-03-22	0
			Dim By: M.E.M. C.E.T.	
			Chk By: E.S.C. P.ENG	
			Project Number: <b>211025</b>	
			Drawing Number: <b>DE02</b>	



EXISTING PANEL NAMES IN CIRCUIT DESIGNATIONS HAVE BEEN SHORTENED ON THE DRAWING FLOOR PLANS. THE CORRESPONDING NAMES ARE AS FOLLOWS:  
 PANEL 2B: LR-2AL2  
 PANEL 2BE: LR2AEL2  
 PANEL 2CE: LR-2AEL3

**GENERAL NOTES**

1. THE PLANS FOR THE WORK ACCOMPANYING THESE SPECIFICATIONS ARE MADE AS ACCURATELY AS POSSIBLE, BUT ABSOLUTE ACCURACY OF DIMENSIONS CANNOT BE GUARANTEED. THEY ARE INTENDED TO SUPPLEMENT AND SIMPLIFY THE GENERAL CONTRACT DRAWINGS. NO CLAIMS FOR EXTRA PAYMENT ON ACCOUNT OF THE DIFFERENCE OF ACTUAL AND ESTIMATED DIMENSIONS WILL BE ALLOWED. CONTRACTOR CONFIRM EXISTING CONDITIONS ON SITE.

**DEMOLITION NOTES**

1. TRACE OUT, DISCONNECT AND REMOVE EXISTING WIRING, RACEWAY, DEVICE AND ASSOCIATED RECESS MOUNTED DEVICE BOX. PROVIDE FOR ALL ASSOCIATED CUTTING, PATCHING AND PAINTING ASSOCIATED WITH REMOVAL AND REMEDIATION. NEATLY COIL, LABEL AND CAP EXISTING BRANCH CIRCUIT WIRING IN ACCESSIBLE CEILING SPACE FOR FUTURE CONNECTION TO NEW WIRING DEVICES IN RENOVATED AREA.
2. EXISTING TWO (2) SETRA MONITORING DEVICES CONNECTED TO BRANCH CIRCUIT 'DP-1AEL1-27' TO BE DISCONNECTED SAFELY STORED AND ALL ASSOCIATED WIRING COILED, CAPPED AND LABELLED IN ACCESSIBLE CEILING SPACE FOR FUTURE INSTALLATION AND RECONNECTION IN NEW RECONSTRUCTED WALL. COORDINATE REMOVAL AND REINSTALLATION WITH CONTROLS CONTRACTOR AND QEH MAINTENANCE STAFF.
3. EXISTING TWO (2) CABLE VISION OUTLETS TO BE TRACED OUT, DISCONNECTED AND ALL ASSOCIATED CABLING LABELLED AND NEATLY COILED IN ACCESSIBLE CEILING SPACE FOR FUTURE INSTALLATION IN NEW RELOCATED WALL.
4. EXISTING COMMUNICATIONS OUTLETS TO BE TRACED OUT, DISCONNECTED AND ALL ASSOCIATED CABLING REMOVED BACK TO SOURCE. WHERE ADVANTAGEOUS, EXISTING STRUCTURED CABLING CAN BE NEATLY COILED IN ACCESSIBLE CEILING SPACE FOR FUTURE REUSE TO CONNECT NEW OUTLETS IN RENOVATED SPACE AS SHOWN ON DRAWING E400. ALL DISCONNECTIONS, REMOVALS AND MODIFICATIONS TO EXISTING STRUCTURED CABLING TO BE COORDINATED WITH ITSS AND DEPARTMENTAL REPRESENTATIVE. RELABEL AND RETEST ALL REUSED COMMUNICATIONS DROPS.
5. EXISTING CCTV CAMERA AND MOUNTING BASE TO BE DISCONNECTED, REMOVED AND TURNED OVER TO QEH MAINTENANCE DEPARTMENT. ALL ASSOCIATED ELECTRICAL, CABLING AND RACEWAY TO BE TRACED OUT AND REMOVED BACK TO SOURCE. PROVIDE FOR ALL PATCHING, REPAIR AND REMEDIATION WORK AS REQUIRED.
6. EXISTING CEILING MOUNTED PUBLIC ADDRESS SPEAKER TO BE TEMPORARILY DISCONNECTED, STORED AND REINSTATED AS REQUIRED TO ACCOMMODATE RENOVATIONS.
7. EXISTING CEILING MOUNT SPOT TYPE SMOKE ALARM TO BE TEMPORARILY CAPPED DURING CONSTRUCTION TO ELIMINATE FALSE ALARMS.
8. REROUTE AND OR SPLICE AND EXTEND ANY ELECTRICAL OR SYSTEMS CABLING WHICH IS CONCEALED IN EXISTING WALL TO BE DEMOLISHED.

**1** DEMOLITION PLAN - LEVEL 200 POWER & SYSTEMS  
 DE03 1:100



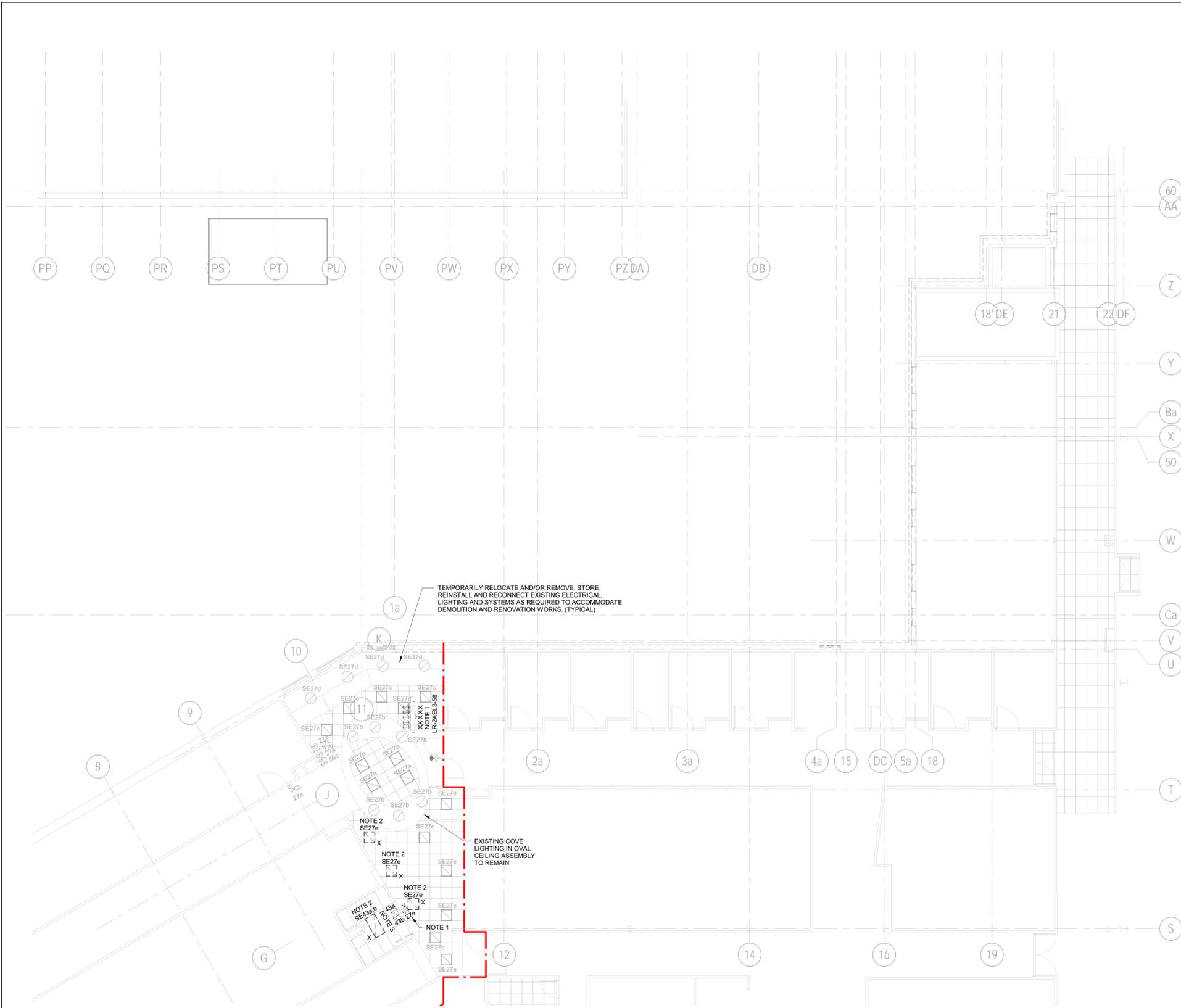
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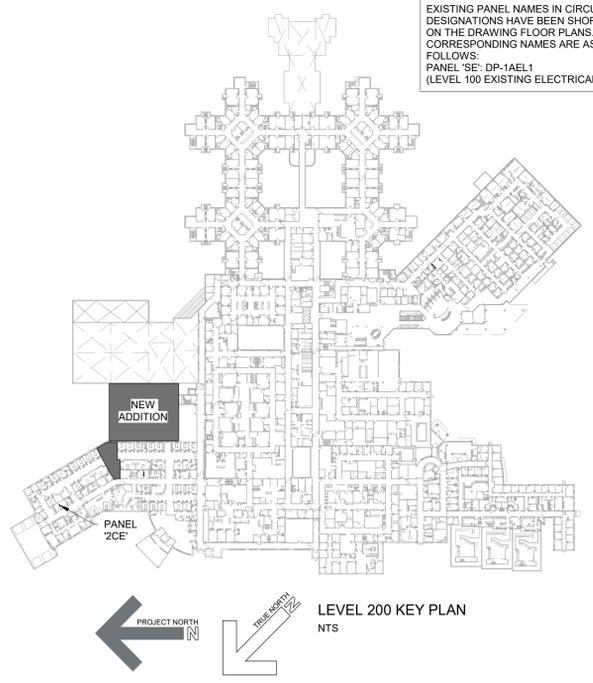
Client  
**Health & Wellness**  
 Queen Elizabeth Hospital  
 Mental Health & Addictions  
 Emergency Department & Short Stay Unit  
 PO Box 2000  
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 Prince Edward Island  
 Canada C1A 7N8

Project Title  
**Demolition Plan Level 200 - Power & Systems**

No.	Description	Date	Date:	Revision
0	Issued for Tender	2022-03-22	2022-03-22	1
			Dim By: M.E.M. C.E.T.	
			Chk By: E.S.C. P.ENG	
			Project Number: <b>211025</b>	
			Drawing Number: <b>DE03</b>	



EXISTING PANEL NAMES IN CIRCUIT DESIGNATIONS HAVE BEEN SHORTENED ON THE DRAWING FLOOR PLANS. THE CORRESPONDING NAMES ARE AS FOLLOWS:  
 PANEL 'SE': DP-1AEL1 (LEVEL 100 EXISTING ELECTRICAL ROOM)



**GENERAL NOTES**

1. THE PLANS FOR THE WORK ACCOMPANYING THESE SPECIFICATIONS ARE MADE AS ACCURATELY AS POSSIBLE, BUT ABSOLUTE ACCURACY OF DIMENSIONS CANNOT BE GUARANTEED. THEY ARE INTENDED TO SUPPLEMENT AND SIMPLIFY THE GENERAL CONTRACT DRAWINGS. NO CLAIMS FOR EXTRA PAYMENT ON ACCOUNT OF THE DIFFERENCE OF ACTUAL AND ESTIMATED DIMENSIONS WILL BE ALLOWED. CONTRACTOR TO CONFIRM EXISTING CONDITIONS ON SITE.

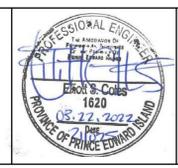
**NOTES**

- TRACE OUT, DISCONNECT AND REMOVE EXISTING LIGHT SWITCH, WIRING, RACEWAY AND ASSOCIATED RECESS MOUNTED DEVICE BOX. BRANCH CIRCUITS ARE TO BE CUT BACK TO ACCESSIBLE CEILING SPACE, SPLICED AND EXTENDED WITH 2#12, #14 BOND IN 21mmC TO FACILITATE REWIRING OF NEW LIGHT SWITCHES AS INDICATED ON DRAWING E601.
- EXISTING LUMINAIRE AND ALL ASSOCIATED BRANCH CIRCUIT WIRING TO BE TRACED OUT, DISCONNECTED AND REMOVED BACK TO SOURCE. MODIFY EXISTING BRANCH CIRCUIT WIRING TO MAINTAIN FUNCTIONAL CONTROL OF REMAINING LUMINAIRES IN AREA AS INDICATED ON DRAWING E601. PROVIDE FOR ALL CUTTING, PATCHING AND PAINTING AS REQUIRED FOR REMOVALS AND REMEDIATION.
- TRACE OUT, DISCONNECT AND REMOVE EXISTING LIGHT SWITCH, WIRING, RACEWAY AND ASSOCIATED RECESS MOUNTED DEVICE BOX BACK TO SOURCE. PROVIDE FOR ALL CUTTING, PATCHING AND PAINTING AS REQUIRED FOR REMOVALS AND REMEDIATION.

1 DEMOLITION PLAN LEVEL 200 - LIGHTING  
 DE04 1:100



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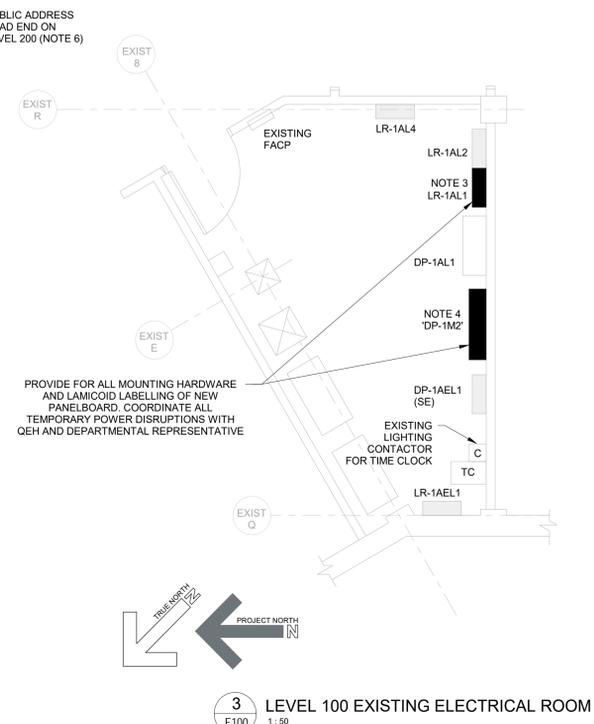
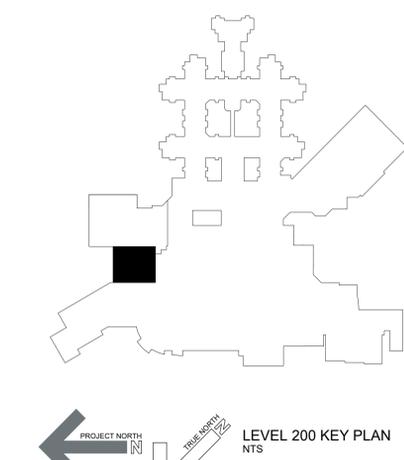
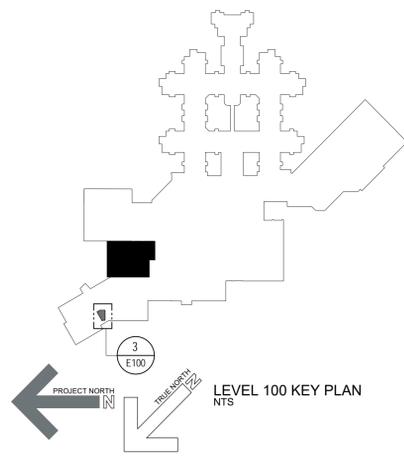
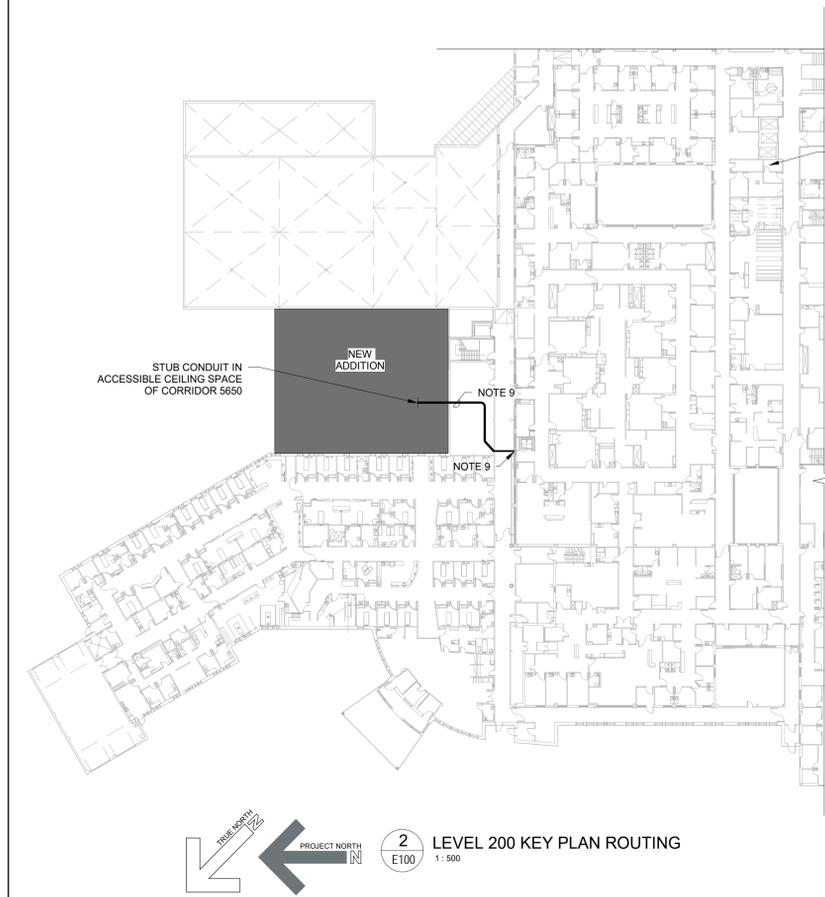
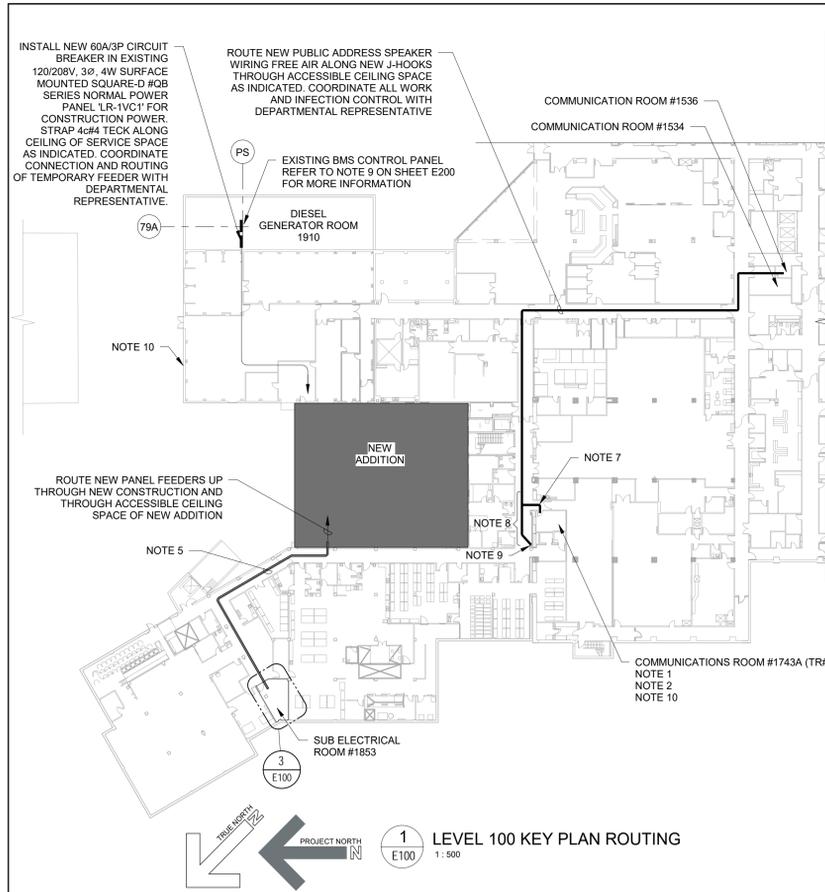


Health & Wellness  
 PO Box 2000  
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Project Title  
 Queen Elizabeth Hospital  
 Mental Health & Addictions  
 Emergency Department & Short Stay Unit

Sheet Title  
 Demolition Plan Level 200 -  
 Lighting

No.	Description	Date	Date:	Revision
0	Issued for Tender	2022-03-22	2022-03-22	0
			Dim By: M.E.M. C.E.T.	
			Chk By: E.S.C. P.ENG	
			Project Number:	
			<b>211025</b>	
			Drawing Number:	
			<b>DE04</b>	



GENERAL LEGEND	
---	INDICATES FIRE RESISTANCE RATING. REFER TO WALL SCHEDULE ON ARCHITECTURAL DRAWINGS FOR MORE INFORMATION
---	LIMIT OF CONTRACT
---	INFECTION CONTROL BARRIER
---	LIGHT LINEWEIGHT INDICATES EXISTING TO REMAIN
---	HEAVY LINEWEIGHT INDICATES NEW WORK
---	SURFACE MOUNTED WIRING
---	INDICATES 2#12 DC WIRING
---	CONCEALED WIRING, SLASHES INDICATE NUMBER OF CONDUCTORS
---	LOW VOLTAGE WIRING
○	WIRING UP
●	WIRING DOWN
MHE1-3a	INDICATES CIRCUIT #3 IN PANEL 'MHE1' a- INDICATES LUMINAIRE SWITCHING FOR LIGHTING CIRCUITS
GENERAL SUB SCRIPTS	
A -	INDICATES DEVICE MOUNTED 1200mm AFF OR 150mm ABOVE COUNTER OR 230mm ABOVE COUNTER WITH BACKSPASH
CS -	INDICATES MOUNTED IN CEILING SPACE
CW -	INDICATES MOUNTED IN CASEWORK
ER -	INDICATES EXISTING EQUIPMENT TO BE RELOCATED
H -	INDICATES CSA 5-20R RECEPTACLE FOR HOUSEKEEPING AND JANITORIAL
N -	INDICATES DEVICE MOUNTED 1830mm AFF
R -	INDICATES RELOCATED EQUIPMENT
X -	INDICATED EQUIPMENT TO BE REMOVED

**NOTES:**

- INSTALL TWO (2) NEW RACK MOUNTED CCTV NVR'S, TWO (2) NEW 48 PORT PATCH PANELS FOR LAN DROPS AND ONE (1) 48 PORT PATCH PANEL FOR WAP C/W TWO (2) RU HORIZONTAL CABLE MANAGEMENT IN NEW COMMUNICATIONS RACKS. COORDINATE EXACT LOCATION OF NEW PATCH PANELS AND WIRING WITH RACK AND SPECIFIC DROP NUMBERING WITH ITSS ON SITE. PROVIDE 1m SERVICE LOOPS ON ALL NEW STRUCTURED CABLING. INSTALLATION OF NEW STRUCTURED CABLE THROUGH EXISTING CABLE TRAY SYSTEMS IN DATA ROOM #1743A TO BE COORDINATED ON SITE WITH ITSS TO ENSURE NEW CABLING AND SERVICE LOOPS DO NOT INTERFERE WITH ACCESS TO EXISTING CABLING AND EQUIPMENT. REMOVE AND REPLACE EXISTING 1-HOUR FIRE SEALING AROUND NEW AND EXISTING COMMUNICATIONS CABLING INTO DATA ROOM #1743A AS REQUIRED TO INSTALL NEW STRUCTURED CABLING.
- TERMINATE NEW TELEPHONE CABLING ON EXISTING BIX FIELD. PROVIDE FOR PROGRAMMING OF EXISTING TELEPHONE EXCHANGE SYSTEM TO INCLUDE ALL NEW TELEPHONE DROPS. COORDINATE EXACT TERMINATION LOCATIONS AND LABELLING ON SITE WITH ITSS.
- INSTALL ONE (1) NEW 125A/3P CIRCUIT BREAKER IN EXISTING 120/208V, THREE PHASE, FOUR WIRE EATON #PRL4 SERIES PANELBOARD 'DP-1M2' FOR NEW PANELBOARD 'MHE1'.
- INSTALL TWO (2) NEW 125A/3P CIRCUIT BREAKERS IN EXISTING 120/208V, THREE PHASE, FOUR WIRE EATON #PRL4 SERIES PANELBOARD 'DP-1M2' FOR NEW PANELBOARD 'MH1' AND 'MH2'.
- INSTALL THREE (3) RUNS OF 4#10, 1#6 BOND IN 53mm SURFACE MOUNTED CONDUIT ALONG EXPOSED CEILING THROUGH ACCESSIBLE CEILING SPACE, AND NEW CONSTRUCTION AS INDICATED. PROVIDE AND COORDINATE FOR ALL INFECTION CONTROL AND CUTTING, PATCHING AND PAINTING OF AS REQUIRED TO INSTALL NEW FEEDERS. INSTALL ACCESSIBLE PULL BOXES EVERY 30m. PAINT EXPOSED CONDUIT TO MATCH COLOUR OF ADJACENT FINISHED SURFACE. COORDINATE EXACT ROUTING ON SITE WITH DEPARTMENTAL REPRESENTATION PRIOR TO ROUGH IN.
- SUPPLY AND INSTALL ONE (1) NEW BOGEN #TPU100B WALL MOUNTED 100W AMPLIFIER AND ONE (1) NEW BOGEN #PCM2PM ZONE CONTROL MODULE ON THE PLYWOOD BACK BOARD BELOW THE EXISTING BOGEN AMPLIFIER LOCATED ON THE SOUTH WALL OF ROOM #1536 ON LEVEL 200. POWER NEW AMPLIFIER FROM EXISTING ADJACENT 120 VAC PUBLIC ADDRESS BRANCH CIRCUIT. BRIDGE THE NEW AMPLIFIER TO THE EXISTING USING TWO (2) 1m RCA CABLES AND CONNECT NEW SPEAKER LOOP TO BOGEN #PCM2PM ZONE MODULE. NEW SPEAKER WIRING IS TO BE ROUTED DOWN INTO DATA ROOM 'TRO2' DIRECTLY BELOW #1536 THEN FREE AIR THROUGH ACCESSIBLE CEILING SPACE OF LEVEL 100 PUBLIC CORRIDOR TO NEW ADDITION. EXACT ROUTING OF NEW SPEAKER CABLE TO BE COORDINATED ON SITE WITH DEPARTMENTAL REPRESENTATIVE. COORDINATE WITH QEH FOR RELOCATION OF EXISTING SHELF IN ROOM #1536 TO ALLOW FOR INSTALLATION OF NEW PUBLIC ADDRESS EQUIPMENT. PROVIDE FOR FIRE SEALING AROUND CABLING BETWEEN DATA ROOMS TR#01 AND TR#02.
- ROUTE ALL NEW STRUCTURED CABLING FROM COMMUNICATIONS ROOM #1743A (TR#11) ALONG EXISTING 600mm WIDE WIRE BASKET TRAY. WHERE EXISTING WIRE BASKET TRAY IS ROUTED THROUGH CONCRETE BLOCK WALL INTO CORRIDOR, PACK AROUND TRAY AND CABLES WITHIN MODULAR FIRE BLOCKS TO MAINTAIN FIRE RATING OF COMMUNICATIONS ROOM. (3#M FIRE BARRIER PILLOW OR APPROVED EQUAL).
- USE EXISTING 600mm WIDE CABLE TRAY ADJACENT TO SOUTH EAST WALL IN ACCESSIBLE CEILING SPACE TO RUN NEW STRUCTURED CABLING. NEATLY BUNDLE THE APPROXIMATELY 10m WORTH OF EXISTING STRUCTURED CABLING IN EXISTING WIRE BASKET TRAY USING WELCRO TIES TO FACILITATE INSTALLATION AND ORGANIZATION OF NEW STRUCTURED CABLING. COORDINATE BUNDLING OF CABLING ON SITE WITH ITSS.
- INSTALL 3x 78mmC THROUGH FLOOR ADJACENT TO COLUMN TO FACILITATE ROUTING OF NEW STRUCTURED CABLING. COORDINATE WITH GENERAL CONTRACTOR GYPSUM BOX OUT REQUIRED TO ACCOMMODATE CONDUIT AS WELL AS ALL CUTTING, PATCHING AND PAINTING. FIRE SEAL AROUND CONDUIT. COORDINATE ALL WORK IN PUBLIC CORRIDOR AND INFECTION CONTROL WITH DEPARTMENTAL REPRESENTATIVE.
- EXTEND TWO (2) 2#12AC90 FROM EXISTING RECEPTACLES WITH CIRCUIT DESIGNATION LR-1BE10-13 & 15 TO A NEW SURFACE MOUNTED CSA 5-20R, DUPLEX RECEPTACLE AT BASE OF EACH NEW DATA RACK. BOLT TWO (2) NEW DATA RACKS TO FLOOR AND GROUND NEW DATA RACKS WITH 1#6 GREEN BOND TO LOCAL TBMS. CUT AN ACCESS HOLE IN CABLE TRAY AND INSTALL A WATERFALL/DROP OUT TO BRING NEW DATA AND CCTV CABLES INTO NEW DATA RACKS.

POWER LEGEND	
⊕	DUPLEX RECEPTACLE (NON ESSENTIAL POWER)
⊕	QUAD RECEPTACLE (NON ESSENTIAL POWER)
⊕	DUPLEX RECEPTACLE (ESSENTIAL POWER)
⊕	QUAD RECEPTACLE (ESSENTIAL POWER)
RECEPTACLE SUB SCRIPTS	
20 -	INDICATES CSA TYPE 5-20R
G -	INDICATES GFCI RECEPTACLE
⊕	COMBINATION POWER, HDMI, DATA, AND TELEPHONE IN RECESSED FIRE RATED POKE THROUGH
⊕	JUNCTION BOX, 100mm SQUARE MOUNTED IN ACCESSIBLE CEILING SPACE WITH DEDICATED CIRCUIT FOR MECHANICAL CONTROLS
'MH1'	ELECTRICAL PANEL, RECESSED MOUNTED 'MH1' - INDICATES PANEL DESIGNATION
⊕	EXISTING ELECTRICAL PANEL, SURFACE MOUNTED
⊕	SINGLE PHASE MOTOR
⊕	THREE PHASE MOTOR
⊕	UNFUSED DISCONNECT SWITCH XX - INDICATES SWITCH RATING
⊕	DIRECT CONNECTION
⊕	MANUAL MOTOR SWITCH
⊕	MANUAL MOTOR STARTER
⊕	COMBINATION MAGNETIC MOTOR STARTER
⊕	CONTACTOR 120V, MECHANICALLY HELD, ELECTRICALLY OPERATED.

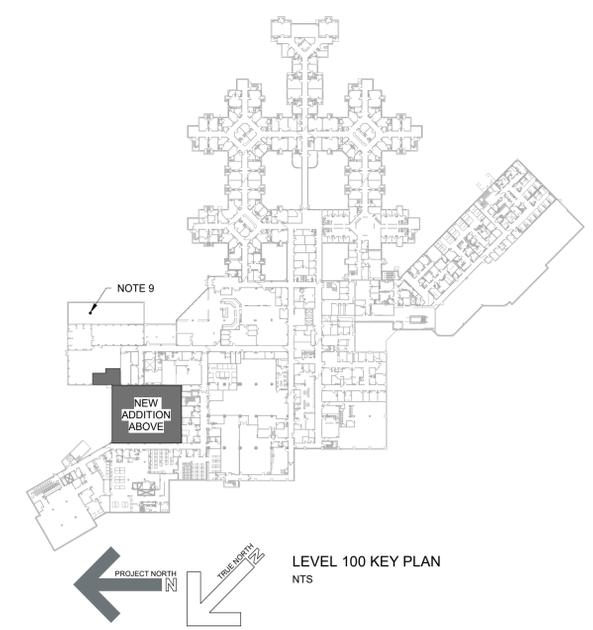
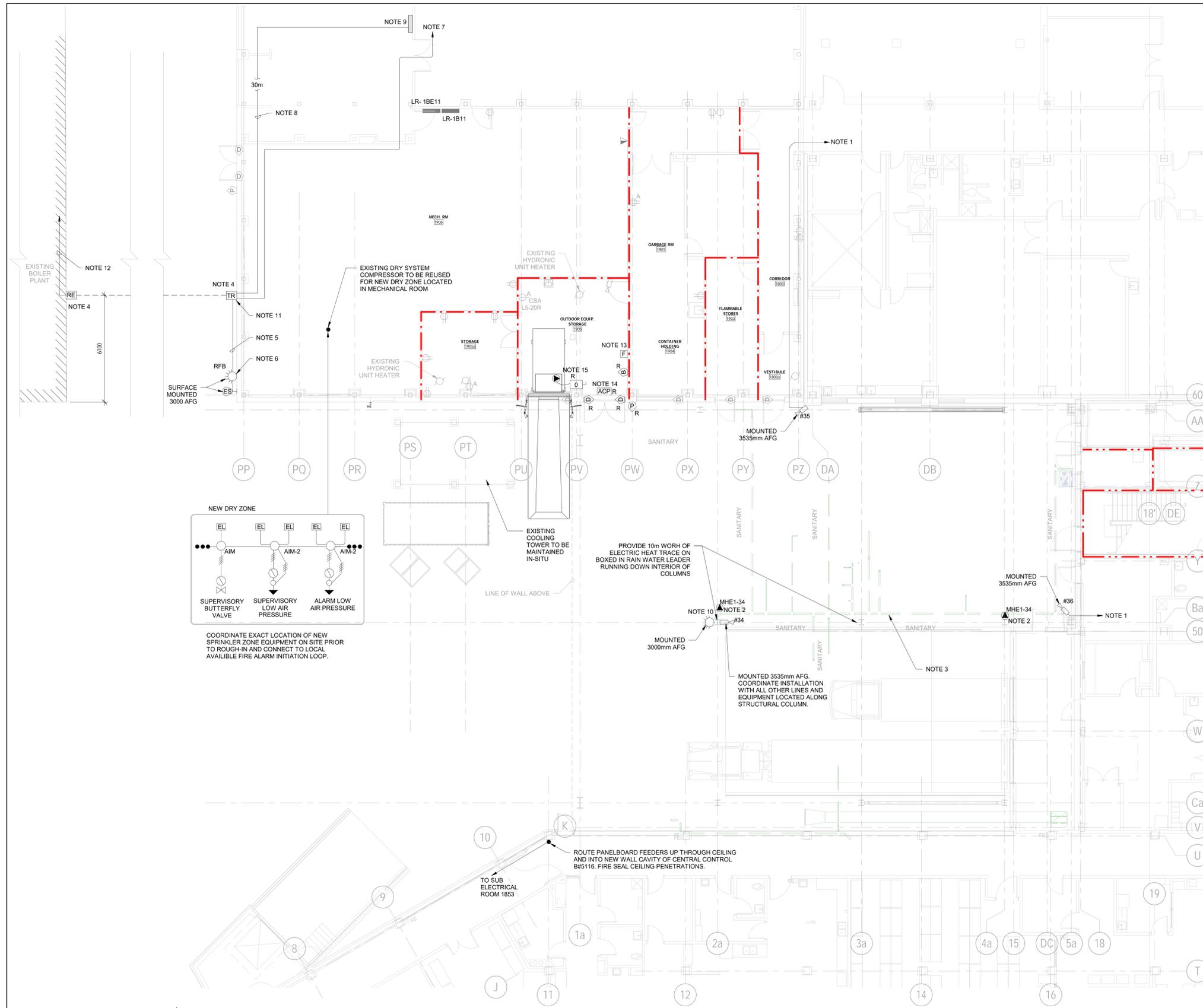
LIGHTING LEGEND	
⊕	EXISTING LUMINAIRE, CEILING MOUNTED
⊕	EXISTING LUMINAIRE, CEILING MOUNTED
⊕	EXISTING LUMINAIRE, WALL MOUNTED
#	LUMINAIRE, CEILING MOUNTED # - INDICATES TYPE IN LUMINAIRE SCHEDULE
#	LUMINAIRE, CEILING MOUNTED # - INDICATES TYPE IN LUMINAIRE SCHEDULE SHADED - INDICATES CONNECTED TO UNSWITCHED SIDE OF CIRCUIT (NIGHT LIGHTING)
#	LUMINAIRE, CEILING MOUNTED # - INDICATES TYPE IN LUMINAIRE SCHEDULE
#	LUMINAIRE, CEILING MOUNTED # - INDICATES TYPE IN LUMINAIRE SCHEDULE
#	LUMINAIRE, EXTERIOR WALL PACK # - INDICATES TYPE IN LUMINAIRE SCHEDULE
#	LUMINAIRE, CEILING MOUNTED DOWNLIGHT # - INDICATES TYPE IN LUMINAIRE SCHEDULE
⊕	EXIT SIGN: CEILING MOUNTED SHADING - INDICATES NUMBER AND LOCATION OF FACES ARROW - INDICATES DIRECTION OF EXIT
⊕	EXIT SIGN: WALL MOUNTED SHADING - INDICATES NUMBER AND LOCATION OF FACES ARROW - INDICATES DIRECTION OF EXIT
V -	INDICATES BEHAVIORAL HEALTH RATED DEVICE
⊕	SINGLE POLE SWITCH # - INDICATES SUBSCRIPT
SWITCH SUB SCRIPTS	
3 -	INDICATES THREE - WAY SWITCH
4 -	INDICATES FOUR - WAY SWITCH
L -	INDICATES 0-10 VDC LOW VOLTAGE DIMMER
V -	INDICATES BEHAVIORAL HEALTH RATED DEVICE
a -	INDICATES LUMINAIRE SWITCHING
P	PIR OCCUPANCY SENSOR WALL SWITCH, 120V
D	DUAL TECHNOLOGY 360° OCCUPANCY SENSOR, CEILING MOUNTED
PP	POWER PACK, LOCATED IN ACCESSIBLE CEILING SPACE
TC	TIME CLOCK

COMMUNICATIONS & SYSTEMS LEGEND	
⊕	2-PORT MDVO SIDE ENTRY BOX MOUNTED IN ACCESSIBLE CEILING SPACE ADJACENT TO WIRELESS ROUTER. PoE WIRELESS ROUTER SUPPLIED AND INSTALLED BY ITSS. GPEL WAP IS SOLID SYMBOL. PUBLIC WAP IS OUTLINED SYMBOL.
⊕	DATA AND TELEPHONE OUTLET 1.1 - FIRST NUMBER INDICATES QUANTITY OF RJ45 MODULE FOR TELEPHONE, SECOND NUMBER INDICATES QUANTITY OF RJ45 MODULES FOR DATA, TELEPHONE AND DATA TO SHARE COMMON FACEPLATE.
⊕	CABLEVISION OUTLET, CONNECTED TO HOSPITAL CAT V SYSTEM
⊕	HDMI OUTLET
⊕	PUBLIC ADDRESS SYSTEM RECESS MOUNTED CEILING SPEAKER
⊕	CLOSED CIRCUIT TELEVISION CAMERA INDICATES BEHAVIORAL HEALTH RATED DEVICE
⊕	FIRE ALARM MAGNETIC DOOR HOLDER SUPPLIED BY DIV. 08, WIRED BY DIV. 26
⊕	ACCESS CONTROL DOUBLE POLE DOOR CONTACT SUPPLIED BY DIV. 08, WIRED BY DIV. 26
⊕	ACCESS CONTROL EMERGENCY DOOR RELEASE MANUAL PULL STATION (BLUE PULL STATION)
⊕	ACCESS CONTROL PROXIMITY CARD READER
⊕	ACCESS CONTROL REQUEST-TO-EXIT DETECTOR
⊕	ACCESS CONTROL DOOR CONTROL PANEL
⊕	POWER ASSISTED DOOR PUSH BUTTON, SUPPLIED AND INSTALLED BY DIV. 8, WIRED BY DIV. 28.
⊕	POWER ASSISTED DOOR OPENER, SUPPLIED AND INSTALLED BY DIV. 8, WIRED BY DIV. 28.
⊕	ELECTRIC STRIKE, SUPPLIED AND INSTALLED BY DIV. 8, WIRED BY DIV. 28.
⊕	MAGNETIC LOCK, SUPPLIED AND INSTALLED BY DIV. 8, WIRED BY DIV. 28.
⊕	INDICATES HIGH SECURITY TYPE (2700 LBS)
⊕	ELECTRIC LATCH RETRACTION, SUPPLIED AND INSTALLED BY DIV. 8, WIRED BY DIV. 28.
⊕	PUSH BUTTON FOR PANIC ALARM, MOUNTED TO UNDERSIDE OF CASEWORK
⊕	INFRARED BEAM SENSOR RECEIVER FOR VEHICLE DETECTION
⊕	INFRARED BEAM SENSOR TRANSMITTER FOR VEHICLE DETECTION
⊕	RAPID FLASHING BEACON
⊕	EXTERIOR ELECTRONIC SIREN, WALL MOUNTED

NURSE CALL LEGEND	
⊕	NURSE CALL CODE STATION
⊕	NURSE CALL DUTY STATION
⊕	NURSE CALL CORRIDOR LIGHT
⊕	NURSE CALL MASTER STATION; DESK MOUNTED
⊕	NURSE CALL DOMELESS CONTROLLER
⊕	NURSE CALL STAFF ASSIST STATION, CODE, CALL AND CORRIDOR DOME LIGHT
⊕	NURSE CALL CONTROL CONSOLE
⊕	NURSE CALL WASHROOM EMERGENCY PULL CORD STATION AND CORRIDOR DOME LIGHT
⊕	NURSE CALL ZONE LIGHT

FIRE ALARM LEGEND	
⊕	FIRE ALARM REMOTE POWER SUPPLY
⊕	FIRE ALARM MANUAL PULL STATION
⊕	FIRE ALARM ASPIRATING SYSTEM CONTROLLER LOCATED IN ACCESSIBLE CEILING SPACE
⊕	FIRE ALARM DUCT DETECTOR, PHOTOELECTRIC TYPE C/W SAMPLING TUBE
⊕	FIRE ALARM DETECTOR # - INDICATES SUBSCRIPT
DETECTOR SUB SCRIPTS	
Z -	INDICATES FIRE ALARM ASPIRATING SYSTEM PORT, CEILING MOUNTED
M -	INDICATES MULTISENSOR SMOKE DETECTOR
⊕	EXISTING FIRE ALARM BELL
⊕	FIRE ALARM COMBINATION HORN STROBE
⊕	FIRE ALARM ADDRESSABLE INPUT MODULE 2 - INDICATES DUAL INPUT MODULE
⊕	FIRE ALARM ADDRESSABLE OUTPUT RELAY MODULE 2 - INDICATES DUAL INPUT MODULE
⊕	FIRE ALARM VALVE TAMPER SWITCH
⊕	FIRE ALARM FLOW SWITCH

<p>Suite 201, 85 Fitzroy Street Charlottetown, P.E.I., Canada, C1A 1R8 Phone: (902) 368-2300 www.colesassociates.com</p>			<p>Client <b>Prince Edward Island</b> Canada</p>	<p>Project Title <b>Health &amp; Wellness</b> Queen Elizabeth Hospital Mental Health &amp; Addictions Emergency Department &amp; Short Stay Unit</p>	<p>Sheet Title <b>Level 100 &amp; 200 Key Plans - Electrical Routing &amp; Legend</b></p>	<table border="1"> <tr> <th>No.</th> <th>Description</th> <th>Date</th> <th>Date</th> <th>Revision</th> </tr> <tr> <td>0</td> <td>Issued for Tender</td> <td>2022-03-22</td> <td>2022-03-22</td> <td>0</td> </tr> </table>	No.	Description	Date	Date	Revision	0	Issued for Tender	2022-03-22	2022-03-22	0
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0	Issued for Tender	2022-03-22	2022-03-22	0												
<p>Date: 2022-03-22          Drawn By: M.E.M. C.E.T.          Check By: E.S.C. P.ENG          Project Number: <b>211025</b>          Drawing Number: <b>E100</b></p>																



- GENERAL NOTES:**
1. ALL NEW CONDUIT AND CABLING PENETRATE THROUGH FIRE RATED SEPARATIONS ARE TO BE FIRE AND SMOKE SEALED BY THE GENERAL CONTRACTOR TO MAINTAIN FIRE RATING OF THE STRUCTURE THROUGH WHICH THEY PASS.
  2. ALL OUTDOOR WORK REQUIRED UNDERNEATH NEW ADDITION TO BE COORDINATED WITH THE GENERAL CONTRACTOR AND SCHEDULED WITH THE HOSPITAL AND DEPARTMENTAL REPRESENTATIVE TO MINIMIZE DISRUPTION TO THE HOSPITALS RECEIVING AREA.

- NOTES:**
1. SURFACE MOUNTED PoE CCTV TO BE MOUNTED AT 3600mm AFG AND CONNECTED BACK TO NEW NVR WITH ONE (1) NEW CAT 6 CABLE. SEAL EXTERIOR PENETRATION WITH LOW VOC MASTIC COMPOUND. ROUTE IN 16mm C W/IN SURFACE MOUNTED AND FREE AIR ON NEW J-HOOKS IN ACCESSIBLE CEILING SPACE TO COMMUNICATIONS ROOM #1743 (TR#1). COORDINATE EXACT ROUTING AND ASSOCIATED INFECTION CONTROL WITH DEPARTMENTAL REPRESENTATIVE. (TYPICAL)
  2. DIRECT 120V CONNECTION FOR CARBON MONOXIDE AND NITROGEN DETECTION CONTROL PANELS THAT ARE SUPPLIED AND INSTALLED BY MECHANICAL. INSTALL 2#12, 1#14 BOND IN 27mmC FOR POWER WIRING AND 27mm PVC JACKETED LIQUID TIGHT FLEX C/W PULL CORD FOR CONTROL WIRING DOWN COLUMN FACE TO EACH UNIT. COORDINATE EXACT LOCATION ON SITE WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH IN.
  3. PROVIDE ELECTRIC HEAT TRACE ON MULTIPLE SANITARY LINES IN FLOOR SPACE OF ADDITION FOR A TOTAL RUN LENGTH OF 120m. REFERENCE DRAWING M101 FOR THE LOCATIONS OF THE SANITARY LINE TO BE TRACED. EXACT QUANTITY OF TRADE TO BE COORDINATED WITH MECHANICAL CONTRACTOR PRIOR TO PURCHASE.
  4. TRIGG ME-IR/330 SINGLE-EYE INFRARED OVER-HEIGHT VEHICLE DETECTION SYSTEM OR APPROVED EQUAL. WALL MOUNT TRANSMITTER AND SYSTEM CONTROLLER UNDER CONTRACTOR PROVIDED SHEET METAL CANOPY AS REQUIRED TO SHIELD UNIT FROM THE ELEMENTS. ENSURE TRANSMITTER AND RECEIVER ARE ALIGNED VERTICALLY AND HORIZONTALLY AS PER MANUFACTURER'S SPECIFICATIONS.
  5. ROUTE 27mmC WITH TWO (2) 3#12 CONDUCTOR ALONG EXPOSED CEILING OF MECH ROOM 1806 FROM ME-IR/330 CONTROLLER TERMINAL #2 TO WALL MOUNTED RAPID FLASH BEACON (STINSON # 678543) AND EXTERIOR WALL MOUNTED ELECTRONIC SIREN. ELECTRIC SIREN TO BE TRIGG ME-IR/330 ACCESSORY #3602, OR APPROVED EQUAL.
  6. PROVIDE ONE (1) WALL MOUNTED RAPID FLASHING BEACON STINSON # 678543 OR APPROVED EQUAL. PROVIDE 120 VAC POWER CONNECTION W/ WIRE TO ME-IR/330 CONTROLLER OUTPUT TERMINAL #2. SEE NOTE 5 FOR WIRING DETAILS.
  7. INSTALL ONE (1) NEW LOCK-ON 15A/1P BREAKER IN EXISTING 120V/208V, 3Ø, 4W SURFACE MOUNTED SQUARE-D QB SERIES 'LR-1VC'1
  8. PROVIDE 2#18 CONTROL CABLE IN 21mmC FROM ME-IR/330 CONTROLLER OUTPUT TERMINAL #3 TO INDICATED EXISTING BMS CONTROL PANEL. ROUTE SURFACE MOUNTED CONDUIT ALONG EXPOSED CEILING DECK OF MECHANICAL AND ELECTRICAL ROOMS.
  9. CONNECT 2#18 CONTROL CABLE TO BMS CONTROL PANEL LOCATED IN DIESEL GENERATOR ROOM 1910, ADJACENT TO THE INTERSECTION OF GRID LINES PS AND 79A (REFER TO KEY PLAN). COORDINATE EXACT LOCATION ON-SITE WITH GENERAL CONTRACTOR. ONE (1) CONDUCTOR TO BE WIRED TO A +10 VDC TO +24 VDC TERMINAL AND THE OTHER TO AN AVAILABLE INPUT TERMINAL. BMS TO MONITOR NEW INPUT CONNECTION AND CLOSE A.N.O. RELAY CONTACT WHICH ENERGIZES CIRCUIT AND ASSOCIATED STROBE LIGHT. (WHEELOCK AC-MAX-R OR APPROVED EQUAL.)
  10. INSTALL EXTERIOR RATED, WEATHER TIGHT WHEELOCK DC-MAX-R (OR APPROVED EQUAL). STROBE LIGHT WIRED TO NORMALLY OPEN RELAY, CONTROLLED BY BMS.
  11. INFRARED EYE TO BE INSTALLED SUCH THAT VERTICALS EQUAL TO OR GREATER THAN 3800mm WILL BE SENSED AND LOCAL BEACON AND ALARM WILL ENERGIZE AND ALERT SIGNAL WILL BE SENT TO BMS. SYSTEM TO BE INSTALLED AND OPERATIONAL AS SOON AS STRUCTURAL STEEL IS ERECTED. EXACT MOUNTING HEIGHT TO BE CONFIRMED ON SITE AND BE COORDINATED WITH GENERAL CONTRACTOR.
  12. INSTALL ONE (1) NEW 15A/1P CIRCUIT BREAKER IN POSITIONS 5 OF EXISTING 125MB, 120V/208V, THREE PHASE, SURFACE MOUNTED EATON #3CBL142 SERIES PANELBOARD LOCATED AT NORTH WEST END OF EXISTING BOILER PLANT. INSTALL 2#12, 1#14 BOND IN 21mm SURFACE MOUNTED CONDUIT FROM NEW BREAKER TO TRIGG ME-IR/330 OVERHEIGHT VEHICLE DETECTION SYSTEM RECEIVER UNIT.
  13. CONNECT NEW FIRE ALARM MANUAL STATION TO CLOSEST AVAILABLE EXISTING FIRE ALARM INITIATION LOOP IN ACCORDANCE WITH THE MANUFACTURER'S WIRING INSTRUCTIONS. COORDINATE EXACT LOCATION OF EXISTING LOOP ON SITE.
  14. RELOCATED ACCESS CONTROL PANEL. SPLICE AND EXTEND EXISTING BRANCH CIRCUIT AS REQUIRED. PROVIDE ALL NEW LOW VOLTAGE DEVICE CABLING IN SURFACE MOUNTED CONDUIT TO RECONNECT ASSOCIATED ACCESS CONTROL DEVICES.
  15. SPLICE AND EXTEND EXISTING ELECTRICAL AS REQUIRED TO NEW CARDBOARD COMPACTOR LOCATION. PROVIDE ALL ELECTRICAL AS REQUIRED FOR A FULLY FUNCTIONAL AND RELOCATED COMPACTOR SYSTEM.

1 RENOVATED FLOOR PLAN LEVEL 100 - POWER, COMMUNICATIONS & SYSTEMS  
E200 1:100

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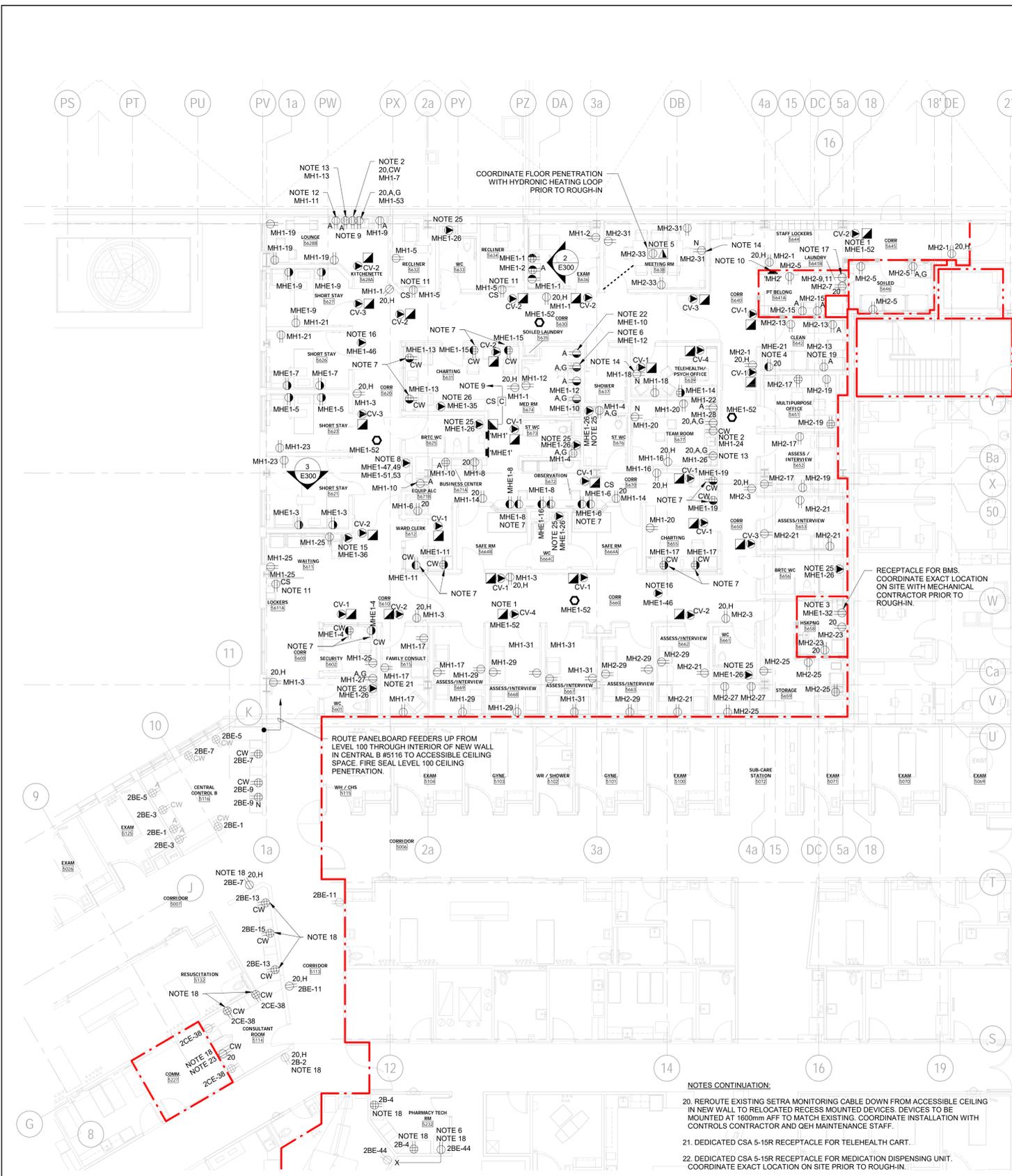
Client  
**Prince Edward Island**  
CANADA

Health & Wellness  
Queen Elizabeth Hospital  
Mental Health & Addictions  
Emergency Department & Short Stay Unit  
PO Box 2000  
Charlottetown  
Prince Edward Island  
Canada C1A 7N8

Project Title  
Renovated Floor Plan - Level 100 Power, Communications & Systems

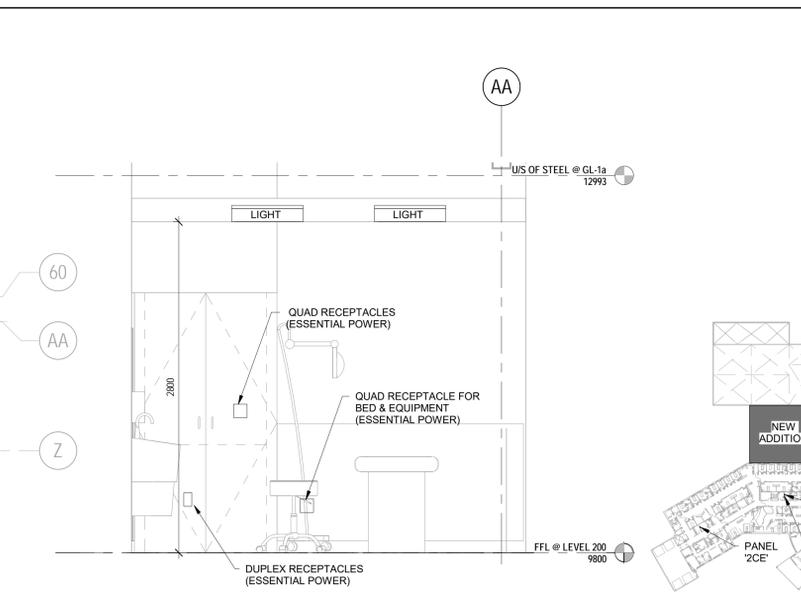
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0	Issued for Tender	2022-03-22	1

Date: 2022-03-22  
Dm By: M.E.M. C.E.T.  
Ck By: E.S.C. P.ENG  
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Drawing Number: **E200**

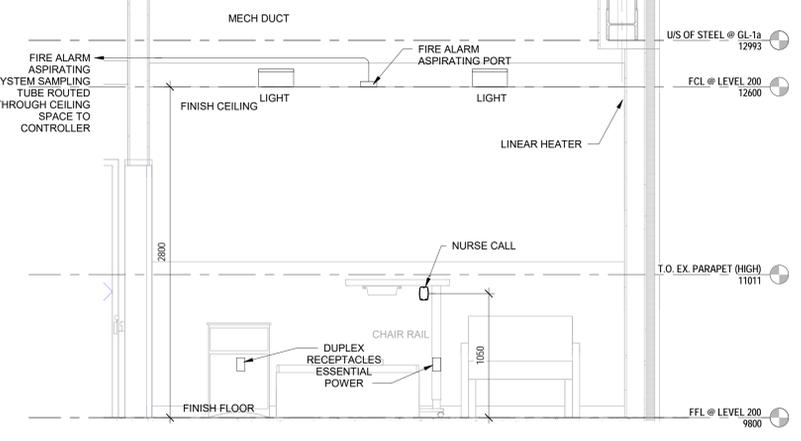


**1 RENOVATED FLOOR PLAN LEVEL 200 - POWER**  
E300 1:100

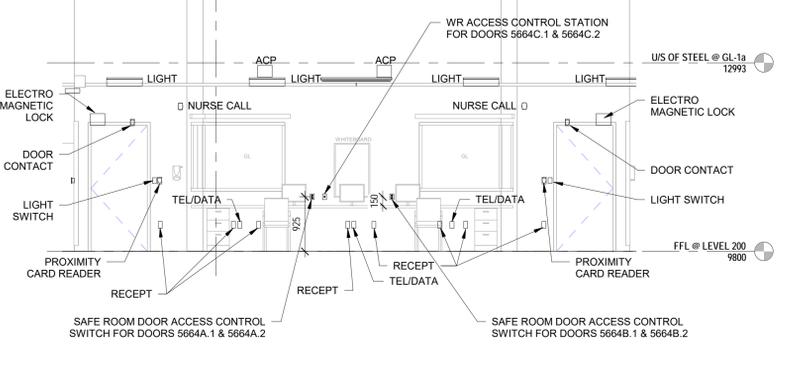
- NOTES CONTINUATION:**
20. REROUTE EXISTING SETRA MONITORING CABLE DOWN FROM ACCESSIBLE CEILING IN NEW WALL TO RELOCATED RECESS MOUNTED DEVICES. DEVICES TO BE MOUNTED AT 1600mm AFF TO MATCH EXISTING. COORDINATE INSTALLATION WITH CONTROLS CONTRACTOR AND QEH MAINTENANCE STAFF.
  21. DEDICATED CSA 5-15R RECEPTACLE FOR TELEHEALTH CART.
  22. DEDICATED CSA 5-15R RECEPTACLE FOR MEDICATION DISPENSING UNIT. COORDINATE EXACT LOCATION ON SITE PRIOR TO ROUGH-IN.
  23. DEDICATED CSA 5-20R RECEPTACLE FOR PORTABLE XRAY MACHINE. COORDINATE EXACT LOCATION ON SITE WITH DEPARTMENTAL REPRESENTATIVE PRIOR TO ROUGH-IN.
  24. DIRECT CONNECTION FOR NURSE CALL CONTROL STATION. COORDINATE EXACT LOCATION ON SITE WITH DEPARTMENTAL REPRESENTATIVE PRIOR TO ROUGH-IN.
  25. DEDICATED DIRECT CONNECTION FOR HANDS FREE FAUCET AND WATERCLOSET.
  26. DEDICATED DIRECT CONNECTION FOR NURSE CALL SYSTEM. COORDINATE EXACT LOCATION ON SITE WITH DEPARTMENTAL REPRESENTATIVE PRIOR TO ROUGH-IN.



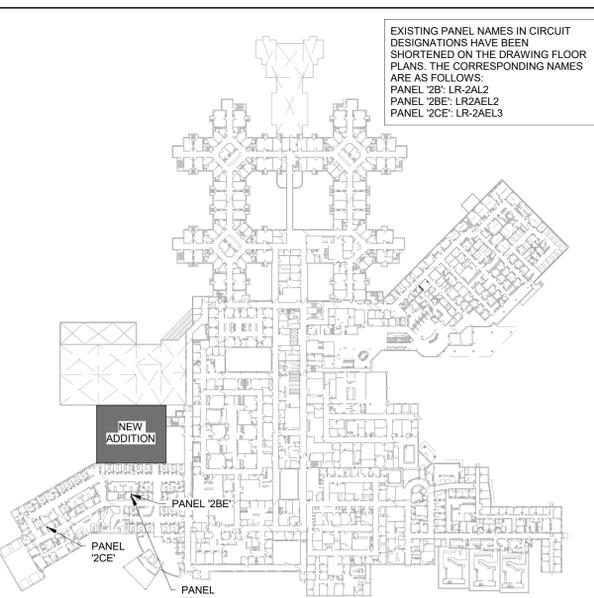
**2 ELEVATION - EXAM ROOM (TYPICAL - HEAD WALL)**  
E300 1:25



**3 ELEVATION - SHORT STAY BEDROOM (TYPICAL - HEAD WALL)**  
E300 1:25



**4 ELEVATION - OBSERVATION**  
E300 1:50



**LEVEL 200 KEY PLAN**  
NTS

- GENERAL NOTES:**
1. ALL NEW CONDUIT AND CABLING PENETRATE THROUGH FIRE RATED SEPARATIONS ARE TO BE FIRE AND SMOKE SEALED BY THE GENERAL CONTRACTOR TO MAINTAIN FIRE RATING OF THE STRUCTURE THROUGH WHICH THEY PASS.
  2. SHORT STAY ROOMS 5621, 5623, 5626, 5627 AND EXAM 5636 ARE CONSIDERED BASIC PATIENT CARE AREA AS DEFINED BY CSA Z32. ELECTRICAL SYSTEMS IN THESE AREAS ARE TO BE INSTALLED AND TESTED TO CSA Z32 REQUIREMENTS. REFERENCE SPECIFICATION SECTION 26 27 26 ITEM 3.2.
  3. TAMPER PROOF SCREWS ARE TO BE USED FOR SECURING ALL EXPOSED DEVICE FACEPLATES AND OUTLET BOX COVERS UNLESS SPECIFICALLY INDICATED OTHERWISE.
  4. ALL FULL HEIGHT WALL PENETRATIONS ARE TO BE SEALED WITH MASTIC ACOUSTICAL SEALANT IN ACCORDANCE WITH SPECIFICATION SECTION 26 05 00.
  5. EXACT LOCATIONS OF ACCESS HATCHES IN GYPSUM CEILINGS ARE TO BE COORDINATED ON SITE BETWEEN ALL TRADES. COORDINATE PRIOR TO ROUGH-IN.
  6. EXPOSED DEVICES WHICH ARE LOCATED IN ROOMS WHERE PATIENTS MAY BE LEFT UNATTENDED ARE TO BE RATED FOR USE IN BEHAVIORAL HEALTH APPLICATIONS. THESE ROOMS INCLUDE: 5651, 5651, 5623, 5625 THROUGH 5628, 5632 THROUGH 5637, 5652, 5653, 5656, 5661 THROUGH 5664, 5667, 5668 AND 5669.
- NOTES:**
1. MECHANICAL VARIABLE AIR UNIT LOCATED IN ACCESSIBLE CEILING SPACE WIRE THROUGH A LOCAL MANUAL MOTOR SWITCH WITH 2#12 AC90 TO LOCAL 120V MECHANICAL CONTROL CIRCUIT (TYPICAL).
  2. RECEPTACLE FOR MICROWAVE. COORDINATE EXACT LOCATION ON SITE WITH GENERAL CONTRACTOR PRIOR TO ROUGH-IN.
  3. RECEPTACLE FOR CHEMICAL DISPENSING SYSTEM. COORDINATE EXACT LOCATION ON SITE WITH DEPARTMENTAL REPRESENTATIVE PRIOR TO ROUGH-IN.
  4. RECEPTACLE TO BE MOUNTED BEHIND BLANKET WARMER.
  5. RECEPTACLE TO BE INSTALLED IN FIRE RATED POKE THROUGH. REFER TO DETAIL 2E701 FOR ADDITIONAL INFORMATION.
  6. RECEPTACLE MOUNTED BEHIND MEDICATION FRIDGE.
  7. WIRE RECESSED DESK RECEPTACLE WITH 2#12, AC90 CONCEALED IN CASEWORK AND BELOW WINDOW. COORDINATE EXACT LOCATION OF RECEPTACLES AND ROUTING OF BRANCH CIRCUIT WIRING WITH GENERAL CONTRACTOR ON SITE.
  8. SELF REGULATING HEAT TRACE TO BE WRAPPED AROUND SANITARY LINE IN COLD FLOOR SPACE BELOW ADDITION. REFERENCE DRAWING M101 FOR LOCATIONS OF THE 120m WORTH OF SANITARY LINE TO BE TRACED. EXACT QUANTITY OF TRACE TO BE COORDINATED WITH MECHANICAL CONTRACTOR PRIOR TO PURCHASE. CONNECT TO DEDICATED ESSENTIAL BRANCH CIRCUIT THROUGH FAIL SAFE SUPERVISORY CONTROLLER INTERFACED THROUGH BMS SUCH THAT AN ALARM WILL ACTIVATE IF SYSTEM FAILS. CONNECT TO BMS IN STORAGE 5659 WITH 2#18 CONTROL CABLE IN 16mmC.
  9. RECESSED MOUNTED CONTROL SWITCH C/W PILOT LIGHT CONNECTED TO CONTACTOR LOCATED IN ACCESSIBLE CEILING SPACE TO REMOTELY CONTROL ALL KITCHENETTE COUNTER RECEPTACLES IN KITCHENETTE. REFER TO DETAIL 6E702 FOR ADDITIONAL INFORMATION.
  10. RECESS MOUNTED PANEL IN FIRE RATED WALL TO HAVE WALL ASSEMBLY BOXED OUT BY GENERAL CONTRACTOR. WALL TO MAINTAIN FIRE RATING.
  11. DUPLIX RECEPTACLE LOCATED IN ACCESSIBLE CEILING SPACE FOR CEILING MOUNTED TELEVISION.
  12. RECEPTACLE FOR ICE MAKER. COORDINATE EXACT LOCATION ON SITE WITH GENERAL CONTRACTOR PRIOR TO ROUGH-IN.
  13. RECEPTACLE FOR COFFEE BREWER. COORDINATE EXACT LOCATION ON SITE WITH GENERAL CONTRACTOR PRIOR TO ROUGH-IN.
  14. RECEPTACLE LOCATED BEHIND TELEVISION AT 1828mm AFF AND 250mm OFFSET FROM VERTICAL CENTERLINE OF TELEVISION. COORDINATE EXACT LOCATION ON SITE WITH GENERAL CONTRACTOR PRIOR TO ROUGH-IN.
  15. DIRECT CONNECTION FOR AFTER - HOURS ENTRY PANEL. COORDINATE EXACT LOCATION ON SITE PRIOR TO ROUGH-IN.
  16. DIRECT CONNECTION FOR FIRE ALARM ASPIRATING SYSTEM.
  17. CSA 14-30R SINGLE RECEPTACLE INSTALLED 1200mm AFF FOR DRYER.
  18. CONNECT EXISTING RECEPTACLE FROM EXISTING BRANCH CIRCUITS AS INDICATED. PROVIDE FOR SPLICING AND EXTENSION WITH 2#12 AC90 IN ACCESSIBLE CEILING SPACE AS REQUIRED.
  19. DEDICATED RECEPTACLE FOR CHARGING PUMPS LOCATED ON WIRE SHELVING. CONFIRM EXACT MOUNTING HEIGHT ON SITE PRIOR TO ROUGH-IN.

EXISTING PANEL NAMES IN CIRCUIT DESIGNATIONS HAVE BEEN SHORTENED ON THE DRAWING FLOOR PLANS. THE CORRESPONDING NAMES ARE AS FOLLOWS:  
PANEL 2B: LR-2AL2  
PANEL 2E: LR2AEL2  
PANEL 2C: LR-2AEL3

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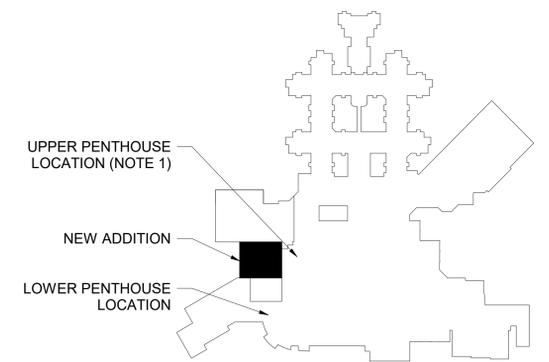
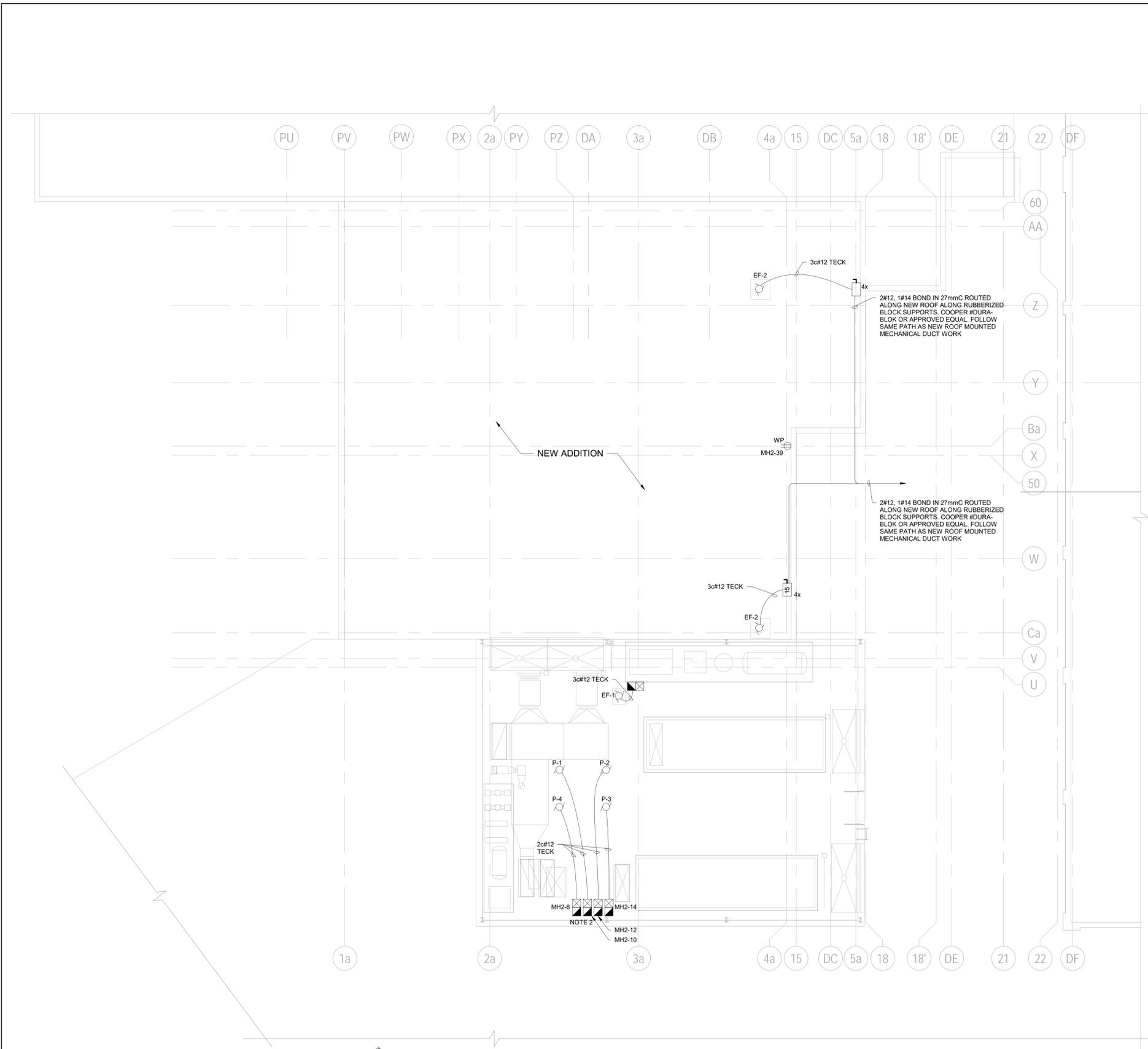
PROFESSIONAL ENGINEER  
Erick S. Coles  
1620  
08-12-2022  
PROVINCE OF PRINCE EDWARD ISLAND

Prince Edward Island  
CANADA

Health & Wellness  
Queen Elizabeth Hospital  
Mental Health & Addictions  
Emergency Department & Short Stay Unit  
PO Box 2000  
Charlottetown  
Prince Edward Island  
Canada C1A 7N8

Project Title  
Renovated Floor Plan Level 200 - Power

No.	Description	Date	Date:	Revision
0	Issued for Tender	2022-03-22	2022-03-22	0
			Drawn By: M.E.M. C.E.T.	
			Checked By: E.S.C. P.ENG	
			Project Number: 211025	
			Drawing Number: E300	



PROJECT NORTH  
TRUE NORTH

KEY PLAN - PENTHOUSE

**GENERAL NOTES:**

1. ALL NEW CONDUIT AND CABLING PENETRATE THROUGH FIRE RATED SEPARATIONS ARE TO BE FIRE AND SMOKE SEALED BY THE GENERAL CONTRACTOR TO MAINTAIN FIRE RATING OF THE STRUCTURE THROUGH WHICH THEY PASS.

**NOTES:**

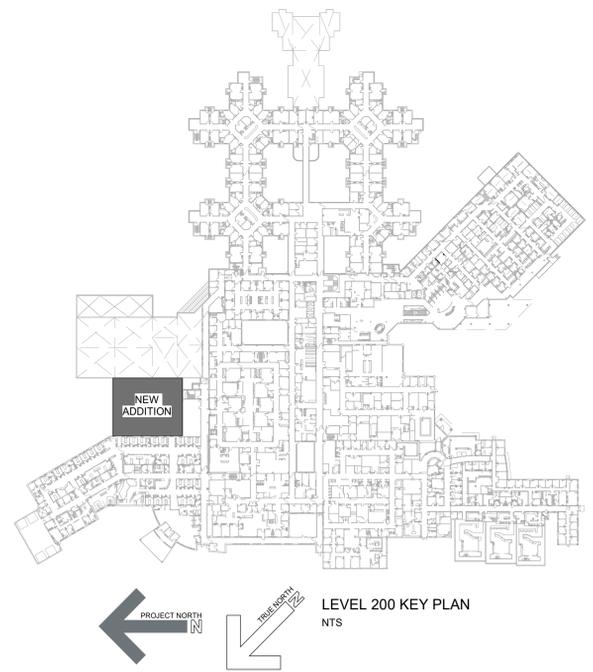
1. EXISTING SIEMENS MODEL #8PU "MCC-ER" 600V, 3a, 4W FED FROM DP-4AE1. REUSE EXISTING THREE (3) BUCKETS C/W MOTOR STARTERS FOR EXISTING OBSOLETE GLYCOL RECIRCULATORS "PR-03-02" "PR-04-03" AND "PR-04-04" TO CONNECT NEW EXHAUST FANS EF-1 & EF-2. PROVIDE NEW 15A/3P OVERCURRENT IN EXISTING MCC BUCKETS.

PROJECT NORTH  
TRUE NORTH

1 PENTHOUSE  
E301 1:100

<p>Suite 201, 85 Fitzroy Street Charlottetown, P.E.I., Canada, C1A 1R6 Phone: (902) 368-2300 www.colesassociates.com</p>			<p>Client <b>Prince Edward Island</b> CANADA</p>	<p>Project Title <b>Health &amp; Wellness</b> Queen Elizabeth Hospital Mental Health &amp; Addictions Emergency Department &amp; Short Stay Unit</p>	<p>Sheet Title <b>Penthouse</b></p>	No.	Description	Date	Date:	Revision
						0	Issued for Tender	2022-03-22	2022-03-22	0
						<p>Drawn By: M.E.M. C.E.T. Checked By: E.S.C. P.ENG</p>		<p>Project Number: <b>211025</b></p>		
						<p>Drawing Number: <b>E301</b></p>				

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**GENERAL NOTES:**

1. ALL NEW CONDUIT AND CABLING PENETRATE THROUGH FIRE RATED SEPARATIONS ARE TO BE FIRE AND SMOKE SEALED BY THE GENERAL CONTRACTOR TO MAINTAIN FIRE RATING OF THE STRUCTURE THROUGH WHICH THEY PASS.
2. TELECOMMUNICATION SYSTEM TO BE INSTALLED IN ACCORDANCE WITH THE GOVERNMENT OF PRINCE EDWARD ISLAND STRUCTURED CABLING STANDARDS (JANUARY 26TH, 2010) REFERENCE APPENDICES SECTION OF INFORMATION.
3. REFER TO DETAIL 1/E6/E6 FOR ADDITIONAL INFORMATION ON WIRING OF ACCESSED CONTROLLED DOORS.
4. TAMPER PROOF OF SCREWS ARE TO BE USED FOR SECURING ALL EXPOSED DEVICE FACEPLATES AND OUTLET BOX COVERS UNLESS SPECIFICALLY INDICATED OTHERWISE.
5. FIRE ALARM INITIATION LOOPS '2-2-47' TO '2-2-60' AND '2-5-49' TO '2-5-60' WHICH ARE LOCATED ADJACENT TO THE ADDITION HAVE SUFFICIENT CAPACITY TO ACCOMMODATE NEW INITIATION DEVICES. FIRE ALARM NOTIFICATION APPLIANCE LOOP '253-5' WHICH CONNECTS EXISTING BELL TYPE NOTIFICATION ADJACENT TO THE ADDITION HAS MINIMAL CAPACITY AND A NEW FIRE ALARM POWER SUPPLY IS TO BE INSTALLED IN LAUNDRY AS INDICATED.
6. STRUCTURED CABLING RUNS SHALL BE FREE FROM BRIDGES, TAPS, OR SPLICES FROM THE USER INTERFACE (I.E. WALL PLATE) TO THE DISTRIBUTION FRAME.
7. STRUCTURED CABLING SHALL BE ROUTED SUCH AS TO MAINTAIN THE FOLLOWING MINIMUM DISTANCES FROM POWER SOURCES:
  - 300 mm FROM POWER LINES OF 2KVA OR LESS (FOR EXAMPLE; LIGHTING OR DUPLEX RECEPTACLES).
  - 300mm FROM FLUORESCENT LIGHTING.
  - 900mm FROM POWER LINES 5KVA OR GREATER (FOR EXAMPLE; ELECTRIC RANGE)
  - 1000mm FROM TRANSFORMERS OR MOTORS
8. SHORT STAY ROOMS 5621, 5623, 5626, 5627 AND EXAM 5636 ARE CONSIDERED BASIC PATIENT CARE AREA AS DEFINED BY CSA 232. ELECTRICAL SYSTEMS IN THESE AREAS ARE TO BE INSTALLED AND TESTED TO CSA 232 REQUIREMENTS.
9. ALL FULL HEIGHT WALL PENETRATIONS ARE TO BE SEALED WITH MASTIC ACOUSTICAL SEALANT IN ACCORDANCE WITH SPECIFICATION SECTION 26 05 00.
10. EXACT LOCATIONS OF ACCESS HATCHES IN GYPSUM CEILINGS ARE TO BE COORDINATED ON SITE BETWEEN ALL TRADES. COORDINATE PRIOR TO ROUGH-IN.
11. EXPOSED DEVICES WHICH ARE LOCATED IN ROOMS WHERE PATIENTS MAY BE LEFT UNATTENDED ARE TO BE RATED FOR USE IN BEHAVIORAL HEALTH APPLICATIONS. THESE ROOM INCLUDE: 5615, 5621, 5623, 5625 THROUGH 5628, 5632 THROUGH 5637, 5652, 5653, 5656, 5661 THROUGH 5664, 5667, 5668 AND 5669.

**NOTES:**

1. DATA OUTLET IN ACCESSIBLE CEILING SPACE TO BE PROVIDED WITH TWO (2) RJ45 MODULES. ONE FOR THE HEALTH CARE WIRELESS NETWORK, AND ONE (1) FOR THE PUBLIC WIRELESS NETWORK. INSTALL OUTLETS A MINIMUM OF 2m APART.
2. RUN COMMUNICATIONS CABLES ON J-HOOKS IN ACCESSIBLE CEILING SPACE FROM A 27mmC ROUTED DOWN NEW STUD WALL CAVITY TO THE COMMUNICATIONS OUTLET. BOND CONDUIT TO CLOSEST GROUNDED RACEWAY OR JUNCTION BOX WITH #14 GREEN BOND. (TYPICAL)
3. FIRE RATED POKE THROUGH. REFERENCE DETAIL 2/E701 FOR ADDITIONAL INFORMATION.
4. CONNECT DRY CONTACT FROM MEDICINE FRIDGE TO BMS SYSTEM WITH ONE (1) CAT 6 CABLE ROUTED IN 21mmC THROUGH ACCESSIBLE CEILING SPACE TO BMS INTERFACE LOCATED IN BRTC WG 5625.
5. CABLEVISION AND RJ45 JACKS TO HAVE SEPARATE OUTLET BOXES. REFER TO DRAWING E701 FOR ADDITIONAL INFORMATION.
6. CONNECT NEW COMMUNICATIONS OUTLETS WITH EXISTING STRUCTURED CABLING SALVAGED FROM DEMOLITION AND NEATLY COILED IN ACCESSIBLE CEILING SPACE. OTHERWISE, PROVIDE NEW AND CONNECT BACK TO EXISTING LAN IN COMM ROOM 5227. COORDINATE NEW STRUCTURED CABLING TERMINATIONS POINTS WITH ITSS AND TEST ALL REUSED STRUCTURED CABLING.
7. EXTEND EXISTING COAXIAL CABLE VISION CABLING FROM ACCESSIBLE CEILING SPACE DOWN THROUGH NEW WALL TO F-CONNECTOR WALL PLATE LOCATED BEHIND TELEVISION AT 1800 mm AFF.
8. COMMUNICATIONS OUTLET DEDICATED FOR TELEHEALTH CART.
9. COMMUNICATIONS OUTLET LOCATED BELOW WINDOW. ROUTE STRUCTURED CABLING DOWN FROM ACCESSIBLE CEILING SPACE TO OUTLET IN A COMBINATION OF EMT AND FLEXIBLE CONDUIT. COORDINATE EXACT LOCATION ON SITE.
10. CEILING MOUNTED VANDAL RESISTANT TELEVISION ENCLOSURE. CAT V OUTLET LOCATED IN AN ACCESSIBLE LOCATION IN THE CEILING SPACE ADJACENT TO OWNER SUPPLIED TELEVISION ENCLOSURE. COORDINATE EXACT LOCATION ON SITE PRIOR TO ROUGH-IN.
11. REFERENCE DETAIL 3/E701 FOR ADDITIONAL INFORMATION.
12. DEDICATED DATA OUTLET FOR PORTABLE XRAY MACHINE. COORDINATE EXACT LOCATION WITH DEPARTMENTAL REPRESENTATIVE ON SITE PRIOR TO ROUGH-IN.

PROJECT NORTH  
 1  
 E400  
 1:100  
**RENOVATED FLOOR PLAN LEVEL 200 - COMMUNICATIONS**



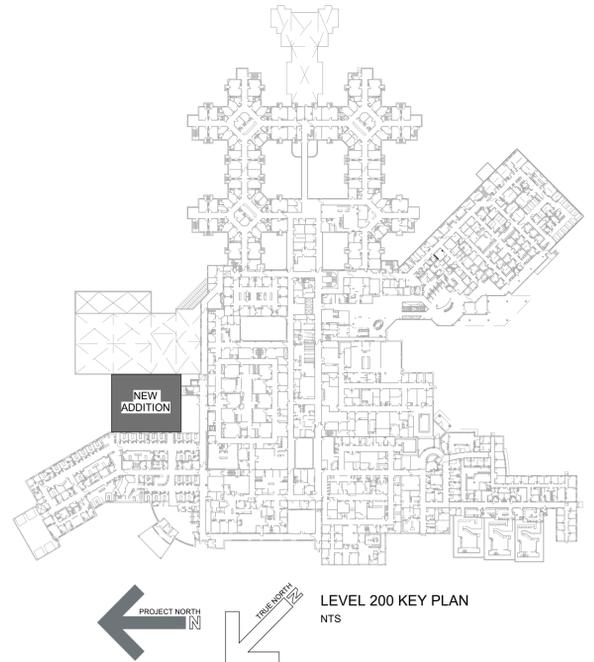
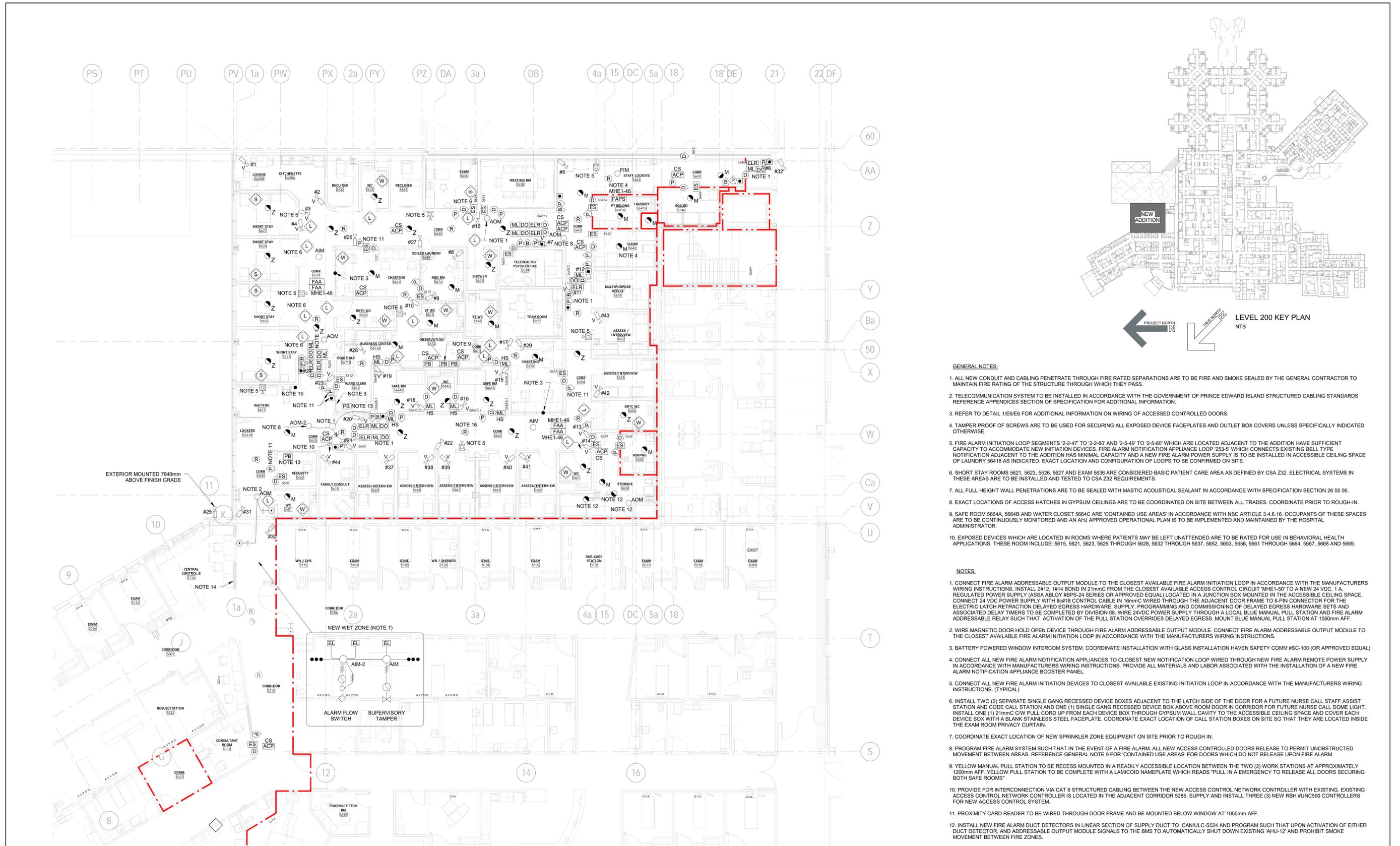
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Client  
**Health & Wellness**  
 Queen Elizabeth Hospital  
 Mental Health & Addictions  
 Emergency Department & Short Stay Unit  
 PO Box 2000  
 Charlottetown  
 Prince Edward Island  
 Canada C1A 7N8

Project Title  
**Renovated Floor Plan Level 200 - Communications**

No.	Description	Date	Date:	Revision
0	Issued for Tender	2022-03-22	2022-03-22	0
			Date: 2022-03-22	
			Drawn By: M.E.M. C.E.T.	
			Checked By: E.S.C. P.ENG	
			Project Number:	
			<b>211025</b>	
			Drawing Number:	
			<b>E400</b>	



- GENERAL NOTES:**
1. ALL NEW CONDUIT AND CABLING PENETRATE THROUGH FIRE RATED SEPARATIONS ARE TO BE FIRE AND SMOKE SEALED BY THE GENERAL CONTRACTOR TO MAINTAIN FIRE RATINGS OF THE STRUCTURE THROUGH WHICH THEY PASS.
  2. TELECOMMUNICATION SYSTEM TO BE INSTALLED IN ACCORDANCE WITH THE GOVERNMENT OF PRINCE EDWARD ISLAND STRUCTURED CABLING STANDARDS REFERENCE APPENDICES SECTION OF SPECIFICATION FOR ADDITIONAL INFORMATION.
  3. REFER TO DETAIL 1/E6/E6 FOR ADDITIONAL INFORMATION ON WIRING OF ACCESSED CONTROLLED DOORS.
  4. TAMPER PROOF OF SCREWS ARE TO BE USED FOR SECURING ALL EXPOSED DEVICE FACEPLATES AND OUTLET BOX COVERS UNLESS SPECIFICALLY INDICATED OTHERWISE.
  5. FIRE ALARM INITIATION LOOP SEGMENTS '2-2-47' TO '2-2-60' AND '2-5-49' TO '2-5-60' WHICH ARE LOCATED ADJACENT TO THE ADDITION HAVE SUFFICIENT CAPACITY TO ACCOMMODATE NEW INITIATION DEVICES. FIRE ALARM NOTIFICATION APPLIANCE LOOP 253-5 WHICH CONNECTS EXISTING BELL TYPE NOTIFICATION ADJACENT TO THE ADDITION HAS MINIMAL CAPACITY AND A NEW FIRE ALARM POWER SUPPLY IS TO BE INSTALLED IN ACCESSIBLE CEILING SPACE OF LAUNDRY 56418 AS INDICATED. EXACT LOCATION AND CONFIGURATION OF LOOPS TO BE CONFIRMED ON SITE.
  6. SHORT STAY ROOMS 5621, 5623, 5626, 5627 AND EXAM 5636 ARE CONSIDERED BASIC PATIENT CARE AREA AS DEFINED BY CSA Z32. ELECTRICAL SYSTEMS IN THESE AREAS ARE TO BE INSTALLED AND TESTED TO CSA Z32 REQUIREMENTS.
  7. ALL FULL HEIGHT WALL PENETRATIONS ARE TO BE SEALED WITH MASTIC ACOUSTICAL SEALANT IN ACCORDANCE WITH SPECIFICATION SECTION 26 05 00.
  8. EXACT LOCATIONS OF ACCESS HATCHES IN GYPSUM CEILINGS ARE TO BE COORDINATED ON SITE BETWEEN ALL TRADES. COORDINATE PRIOR TO ROUGH-IN.
  9. SAFE ROOM 5664A, 5664B AND WATER CLOSET 5664C ARE 'CONTAINED USE AREAS' IN ACCORDANCE WITH NBC ARTICLE 3.4.6.16. OCCUPANTS OF THESE SPACES ARE TO BE CONTINUOUSLY MONITORED AND AN AHJ APPROVED OPERATIONAL PLAN IS TO BE IMPLEMENTED AND MAINTAINED BY THE HOSPITAL ADMINISTRATOR.
  10. EXPOSED DEVICES WHICH ARE LOCATED IN ROOMS WHERE PATIENTS MAY BE LEFT UNATTENDED ARE TO BE RATED FOR USE IN BEHAVIORAL HEALTH APPLICATIONS. THESE ROOM INCLUDE: 5615, 5621, 5623, 5625 THROUGH 5628, 5632 THROUGH 5637, 5652, 5653, 5656, 5661 THROUGH 5664, 5667, 5668 AND 5669.

- NOTES:**
1. CONNECT FIRE ALARM ADDRESSABLE OUTPUT MODULE TO THE CLOSEST AVAILABLE FIRE ALARM INITIATION LOOP IN ACCORDANCE WITH THE MANUFACTURERS WIRING INSTRUCTIONS. INSTALL 2#12, 1#14 BOND IN 21mmC FROM THE CLOSEST AVAILABLE ACCESS CONTROL CIRCUIT MHE-1-50 TO A NEW 24 VDC, 1 A, REGULATED POWER SUPPLY (ASSA ABLOY #BPS-24 SERIES OR APPROVED EQUAL) LOCATED IN A JUNCTION BOX MOUNTED IN THE ACCESSIBLE CEILING SPACE. CONNECT 24 VDC POWER SUPPLY WITH 8#18 CONTROL CABLE IN 16mmC WIRED THROUGH THE ADJACENT DOOR FRAME TO 8-PIN CONNECTOR FOR THE ELECTRIC LATCH RETRACTION DELAYED EGRESS HARDWARE. SUPPLY, PROGRAMMING AND COMMISSIONING OF DELAYED EGRESS HARDWARE SETS AND ASSOCIATED DELAY TIMERS TO BE COMPLETED BY DIVISION 08. WIRE 24VDC POWER SUPPLY THROUGH A LOCAL BLUE MANUAL PULL STATION AND FIRE ALARM ADDRESSABLE RELAY SUCH THAT ACTIVATION OF THE PULL STATION OVERRIDES DELAYED EGRESS. MOUNT BLUE MANUAL PULL STATION AT 1050mm AFF.
  2. WIRE MAGNETIC DOOR HOLD OPEN DEVICE THROUGH FIRE ALARM ADDRESSABLE OUTPUT MODULE. CONNECT FIRE ALARM ADDRESSABLE OUTPUT MODULE TO THE CLOSEST AVAILABLE FIRE ALARM INITIATION LOOP IN ACCORDANCE WITH THE MANUFACTURERS WIRING INSTRUCTIONS.
  3. BATTERY POWERED WINDOW INTERCOM SYSTEM. COORDINATE INSTALLATION WITH GLASS INSTALLATION HAVEN SAFETY COMM #SC-100 (OR APPROVED EQUAL) IN ACCORDANCE WITH MANUFACTURERS WIRING INSTRUCTIONS. PROVIDE ALL MATERIALS AND LABOR ASSOCIATED WITH THE INSTALLATION OF A NEW FIRE ALARM NOTIFICATION APPLIANCE BOOSTER PANEL.
  4. CONNECT ALL NEW FIRE ALARM NOTIFICATION APPLIANCES TO CLOSEST NEW NOTIFICATION LOOP WIRED THROUGH NEW FIRE ALARM REMOTE POWER SUPPLY IN ACCORDANCE WITH MANUFACTURERS WIRING INSTRUCTIONS. PROVIDE ALL MATERIALS AND LABOR ASSOCIATED WITH THE INSTALLATION OF A NEW FIRE ALARM NOTIFICATION APPLIANCE BOOSTER PANEL.
  5. CONNECT ALL NEW FIRE ALARM INITIATION DEVICES TO CLOSEST AVAILABLE EXISTING INITIATION LOOP IN ACCORDANCE WITH THE MANUFACTURERS WIRING INSTRUCTIONS. (TYPICAL)
  6. INSTALL TWO (2) SEPARATE SINGLE GANG RECESSED DEVICE BOXES ADJACENT TO THE LATCH SIDE OF THE DOOR FOR A FUTURE NURSE CALL STAFF ASSIST STATION AND CODE CALL STATION AND ONE (1) SINGLE GANG RECESSED DEVICE BOX ABOVE ROOM DOOR IN CORRIDOR FOR FUTURE NURSE CALL DOME LIGHT. INSTALL ONE (1) 21mmC C/W PULL CORD UP FROM EACH DEVICE BOX THROUGH GYPSUM WALL CAVITY TO THE ACCESSIBLE CEILING SPACE AND COVER EACH DEVICE BOX WITH A BLANK STAINLESS STEEL FACEPLATE. COORDINATE EXACT LOCATION OF CALL STATION BOXES ON SITE SO THAT THEY ARE LOCATED INSIDE THE EXAM ROOM PRIVACY CURTAIN.
  7. COORDINATE EXACT LOCATION OF NEW SPRINKLER ZONE EQUIPMENT ON SITE PRIOR TO ROUGH IN.
  8. PROGRAM FIRE ALARM SYSTEM SUCH THAT IN THE EVENT OF A FIRE ALARM, ALL NEW ACCESS CONTROLLED DOORS RELEASE TO PERMIT UNOBSTRUCTED MOVEMENT BETWEEN AREAS. REFERENCE GENERAL NOTE 9 FOR 'CONTAINED USE AREAS' FOR DOORS WHICH DO NOT RELEASE UPON FIRE ALARM.
  9. YELLOW MANUAL PULL STATION TO BE RECESS MOUNTED IN A READILY ACCESSIBLE LOCATION BETWEEN THE TWO (2) WORK STATIONS AT APPROXIMATELY 1200mm AFF. YELLOW PULL STATION TO BE COMPLETE WITH A LAMICOID NAMEPLATE WHICH READS "PULL IN A EMERGENCY TO RELEASE ALL DOORS SECURING BOTH SAFE ROOMS"
  10. PROVIDE FOR INTERCONNECTION VIA CAT 6 STRUCTURED CABLING BETWEEN THE NEW ACCESS CONTROL NETWORK CONTROLLER WITH EXISTING. EXISTING ACCESS CONTROL NETWORK CONTROLLER IS LOCATED IN THE ADJACENT CORRIDOR 5285. SUPPLY AND INSTALL THREE (3) NEW RBH #UNC500 CONTROLLERS FOR NEW ACCESS CONTROL SYSTEM.
  11. PROXIMITY CARD READER TO BE WIRED THROUGH DOOR FRAME AND BE MOUNTED BELOW WINDOW AT 1050mm AFF.
  12. INSTALL NEW FIRE ALARM DUCT DETECTORS IN LINEAR SECTION OF SUPPLY DUCT TO CANULC-S524 AND PROGRAM SUCH THAT UPON ACTIVATION OF EITHER DUCT DETECTOR, AND ADDRESSABLE OUTPUT MODULE SIGNALS TO THE BMS TO AUTOMATICALLY SHUT DOWN EXISTING 'AHU-12' AND PROHIBIT SMOKE MOVEMENT BETWEEN FIRE ZONES.
  13. PANIC BUTTON TO BE SURFACE MOUNTED TO UNDERSIDE OF MILLWORK AND WIRED WITH 2#18 TO CLOSEST ACCESS CONTROL PANEL.
  14. TWO (2) EXISTING SETRA MONITORING DEVICES ARE TO BE INSTALLED AT 1200mm IN NEW RECESS DEVICE BOXES AND RECONNECTED TO EXISTING CAPPED CIRCUIT COILED IN ACCESSIBLE CEILING SPACE. COORDINATE RECONNECTION WITH CONTROLS CONTRACTOR AND QEH MAINTENANCE STAFF.
  15. RECESS MOUNTED VIDEO INTERCOM SYSTEM CONNECTED BACK TO LAN ROOM WITH ONE (1) CAT 6 CABLE. COORDINATE PROGRAMMING OF IP BASED CALL OUT DIRECTORY WITH DEPARTMENTAL REPRESENTATIVE ON SITE. CONNECT BOTH VIDEO INTERCOM FROM DEDICATED 120V BRANCH CIRCUIT AS INDICATED.
  16. SPEAKERS TO BE TAPPED AT 70V. TOA #PC-80U C/W #B8580 AND SECURE MOUNTING CHANNEL TO MATCH EXISTING. (TYPICAL)

1 RENOVATED FLOOR PLAN LEVEL 200 - SYSTEMS  
E500 1:100

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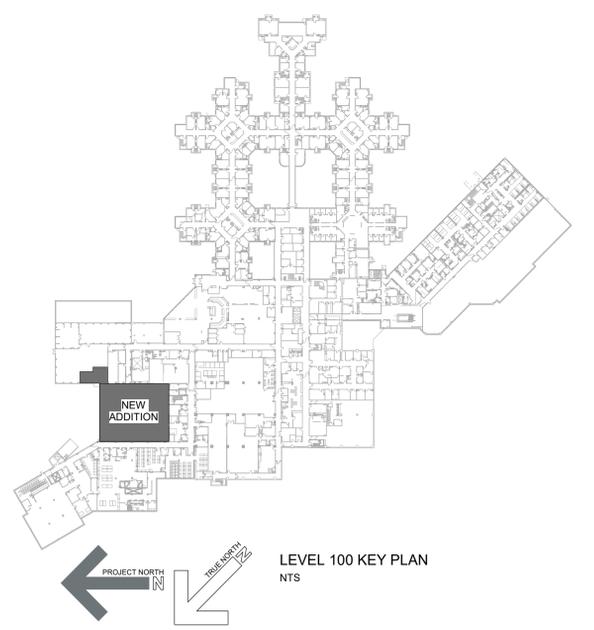
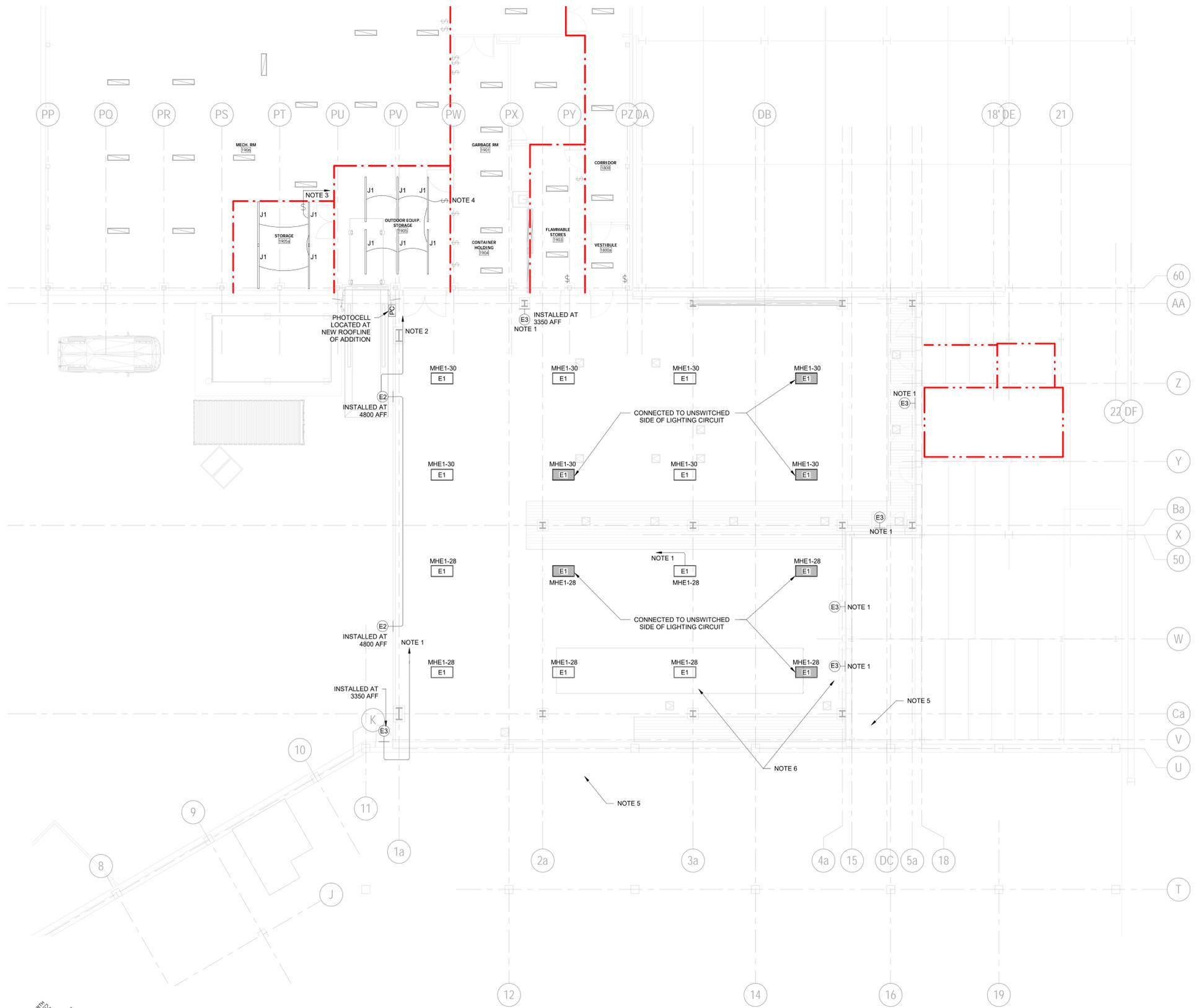


Client  
**Prince Edward Island**  
Health & Wellness  
PO Box 2000  
Charlottetown  
Prince Edward Island  
Canada C1A 7N8

Project Title  
**Queen Elizabeth Hospital  
Mental Health & Addictions  
Emergency Department & Short Stay Unit**

Sheet Title  
**Renovated Floor Plan Level  
200 - Systems**

No.	Description	Date	Date:	Revision
0	Issued for Tender	2022-03-22	2022-03-22	0
			By: M.E.M. C.E.T.	
			Checked By: E.S.C. P.ENG	
			Project Number: <b>211025</b>	
			Drawing Number: <b>E500</b>	

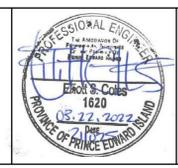


- GENERAL NOTES:**
1. ALL NEW CONDUIT AND CABLING PENETRATE THROUGH FIRE RATED SEPARATIONS ARE TO BE FIRE AND SMOKE SEALED BY THE GENERAL CONTRACTOR TO MAINTAIN FIRE RATING OF THE STRUCTURE THROUGH WHICH THEY PASS.
  2. ALL FULL HEIGHT WALL PENETRATIONS ARE TO BE SEALED WITH MASTIC ACOUSTICAL SEALANT IN ACCORDANCE WITH SPECIFICATION SECTION 26 05 00.
  3. ALL OUTDOOR WORK REQUIRED UNDERNEATH NEW ADDITION TO BE COORDINATED WITH THE GENERAL CONTRACTOR AND SCHEDULED WITH THE HOSPITAL AND DEPARTMENTAL REPRESENTATIVE TO MINIMIZE DISRUPTION TO THE HOSPITALS RECEIVING AREA.
- NOTES:**
1. CONNECT TO SWITCHED SIDE OF EXTERIOR LIGHTING CIRCUIT WITH 2#12, 1#14 BOND IN 21mmC. PROGRAM NEW TIME CLOCK TO SUIT SCHEDULE DEFINED BY DEPARTMENTAL REPRESENTATIVE. REFERENCE LIGHTING CONTROL DETAIL ON 4/ES01 FOR ADDITIONAL INFORMATION. LIGHTING CONTRACTOR LOCATED IN ACCESSIBLE CEILING SPACE OF CHARTING #5631 (TYPICAL)
  2. CONNECT NEW EXTERIOR WALL PACKS TO SWITCHED SIDE OF EXISTING GEH EXTERIOR FACADE LIGHTING CIRCUIT WITH 2#12, 1#14 BOND IN 21mmC. EXACT LOCATION OF SPLICE FOR EXISTING BRANCH CIRCUIT TO BE CONFIRMED ON SITE PRIOR TO ROUGH-IN.
  3. NEW SURFACE MOUNTED LIGHT SWITCH. CONNECT TO EXISTING CAPPED AND COILED UNSWITCHED LIGHTING CIRCUIT AND NEW LUMINAIRES WITH 2#12, 1#14 BOND IN 21mmC.
  4. NEW LIGHT SWITCH INSTALLED IN EXISTING RECESS DEVICE BOX. CONNECT TO EXISTING CAPPED BRANCH CIRCUIT WIRING AND NEW LUMINAIRES WITH 2#12, 1#14 BOND IN 21mmC.
  5. TEMPORARILY REMOVE, STORE, REINSTALL AND RECONNECT EXISTING ELECTRICAL LIGHTING AND SYSTEMS AS REQUIRED TO FACILITATE INSTALLATION AND TIE-IN OF NEW ABOVE CEILING MECHANICAL SYSTEMS WITHIN THE EXISTING HOSPITAL. COORDINATE EXACT ROUTING WITH MECHANICAL CONTRACTOR. (TYPICAL)
  6. PROVIDE FOR TEMPORARY LIGHTING AND INSTALLATION OF LOADING AREA LIGHTING IN A PHASED MANNER AS REQUIRED TO ACCOMMODATE THE CONSTRUCTION SCHEDULE AND PROVIDE ILLUMINATION IN THE LOADING AREA AS REQUIRED TO MAINTAIN DAY-TO-DAY OPERATIONS IN THIS AREA.

1 RENOVATED FLOOR PLAN LEVEL 100 - LIGHTING  
E600 1:100



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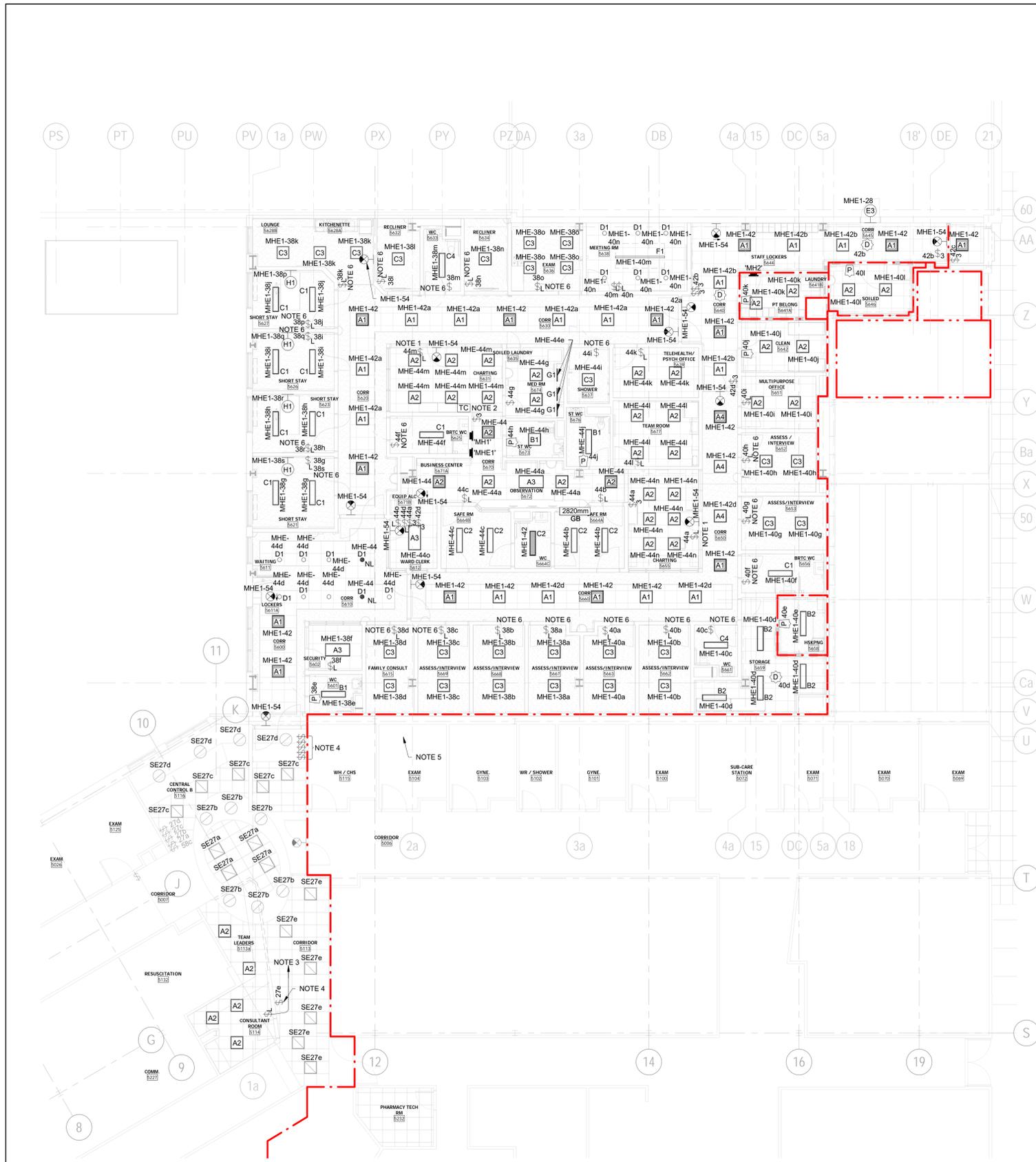


Client  
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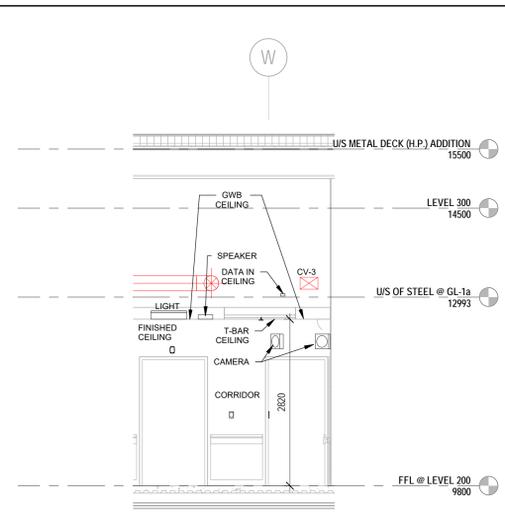
Project Title  
**Queen Elizabeth Hospital  
Mental Health & Addictions  
Emergency Department & Short Stay Unit**

Sheet Title  
**Renovated Floor Plan Level  
100 - Lighting**

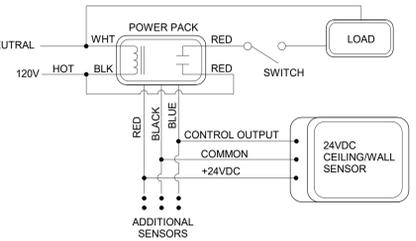
No.	Description	Date	Date:	Revision
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			Drawn By: M.E.M. C.E.T.	
			Checked By: E.S.C. P.ENG	
			Project Number: <b>211025</b>	
			Drawing Number: <b>E600</b>	



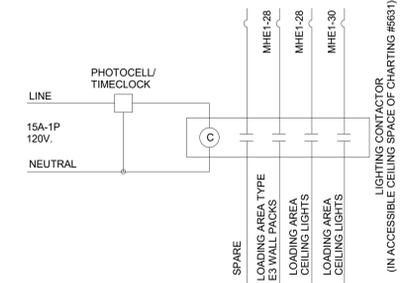
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E601 1:100



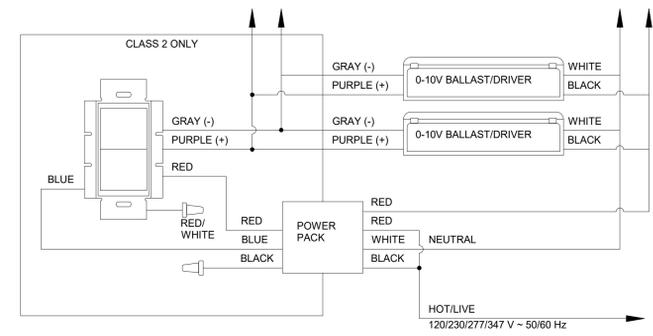
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E601 1:50



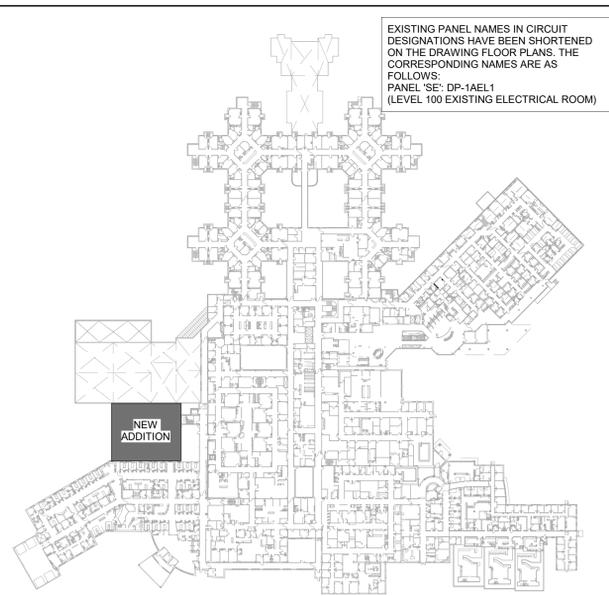
**3 MOTION SENSOR WIRING SCHEMATIC**  
E601 NTS



**4 EXTERIOR LIGHTING CONTROL WIRING SCHEMATIC**  
E601 NTS



**5 0-10 VDC DIMMING CONTROL**  
E601 NTS



**LEVEL 200 KEY PLAN**  
NTS

EXISTING PANEL NAMES IN CIRCUIT DESIGNATIONS HAVE BEEN SHORTENED ON THE DRAWING FLOOR PLANS. THE CORRESPONDING NAMES ARE AS FOLLOWS:  
PANEL 'SE': DP-1AEL1 (LEVEL 100 EXISTING ELECTRICAL ROOM)

**SCHEMATIC GENERAL NOTES:**

1. POWER PACK TO BE MOUNTED IN ACCESSIBLE CEILING SPACE ON A 100mm x 100mm x 50mm SQUARE JUNCTION BOX.
2. WHERE POWER PACK IS INSTALLED IN A NON-ACCESSIBLE CEILING SPACE, COORDINATE INSTALLATION WITH ACCESS HATCHES PROVIDED BY OTHERS.

**GENERAL NOTES:**

1. ALL NEW CONDUIT AND CABLING PENETRATE THROUGH FIRE RATED SEPARATIONS ARE TO BE FIRE AND SMOKE SEALED BY THE GENERAL CONTRACTOR TO MAINTAIN FIRE RATING OF THE STRUCTURE THROUGH WHICH THEY PASS.
2. SHORT STAY ROOMS 5621, 5623, 5625, 5627 AND EXAM 5636 ARE CONSIDERED BASIC PATIENT CARE AREA AS DEFINED BY CSA Z32. ELECTRICAL SYSTEMS IN THESE AREAS ARE TO BE INSTALLED AND TESTED TO CSA Z32 REQUIREMENTS.
3. TAMPER PROOF SCREWS ARE TO BE USED FOR SECURING ALL EXPOSED DEVICE FACEPLATES AND OUTLET BOX COVERS UNLESS SPECIFICALLY INDICATED OTHERWISE.
4. ALL FULL HEIGHT WALL PENETRATIONS ARE TO BE SEALED WITH MASTIC ACOUSTICAL SEALANT IN ACCORDANCE WITH SPECIFICATION SECTION 26 05 00.
5. EXACT LOCATIONS OF ACCESS HATCHES IN GYPSUM CEILING ARE TO BE COORDINATED ON SITE BETWEEN ALL TRADES. COORDINATE PRIOR TO ROUGH-IN.
6. EXPOSED DEVICES WHICH ARE LOCATED IN ROOMS WHERE PATIENTS MAY BE LEFT UNATTENDED ARE TO BE RATED FOR USE IN BEHAVIORAL HEALTH APPLICATIONS. THESE ROOMS INCLUDE: 5615, 5621, 5623, 5625 THROUGH 5628, 5632 THROUGH 5637, 5652, 5653, 5656, 5661 THROUGH 5664, 5667, 5668 AND 5669.

**NOTES:**

1. WIRELESS DIMMING SWITCH WITHOUT OUTLET BOX FOR CONTROL FOR CHARTING 5631, 5655. EXACT LOCATION TO BE DETERMINED ON SITE.
2. NEW TIME CLOCK AND CONTACTOR TO BE LOCATED IN ACCESSIBLE CEILING SPACE. COORDINATE EXACT LOCATION ON SITE WITH QEH MAINTENANCE STAFF PRIOR TO ROUGH-IN.
3. CONNECT TO UNSWITCHED SIDE OF EXISTING 120V LIGHTING CIRCUIT LOCATED IN ACCESSIBLE CEILING SPACE.
4. RELOCATED SWITCHES. SPLICE AND EXTEND EXISTING UNSWITCHED BRANCH CIRCUIT WIRING THROUGH ACCESSIBLE CEILING SPACE.
5. TEMPORARILY RELOCATE AND / OR REMOVE, STORE, REINSTALL AND RECONNECT EXISTING ELECTRICAL LIGHTING OR SYSTEMS AS REQUIRED TO FACILITATE INSTALLATION AND TIE-IN OF NEW ABOVE CEILING MECHANICAL SYSTEMS WITHIN THE EXISTING HOSPITAL. COORDINATE EXACT ROUTING WITH MECHANICAL CONTRACTOR. (TYPICAL)
6. 0-10 VDC DIMMER AND / OR LIGHT SWITCH RATED FOR USE IN BEHAVIORAL HEALTH APPLICATIONS C/W POWER PACK LOCATED IN ACCESSIBLE CEILING SPACE.



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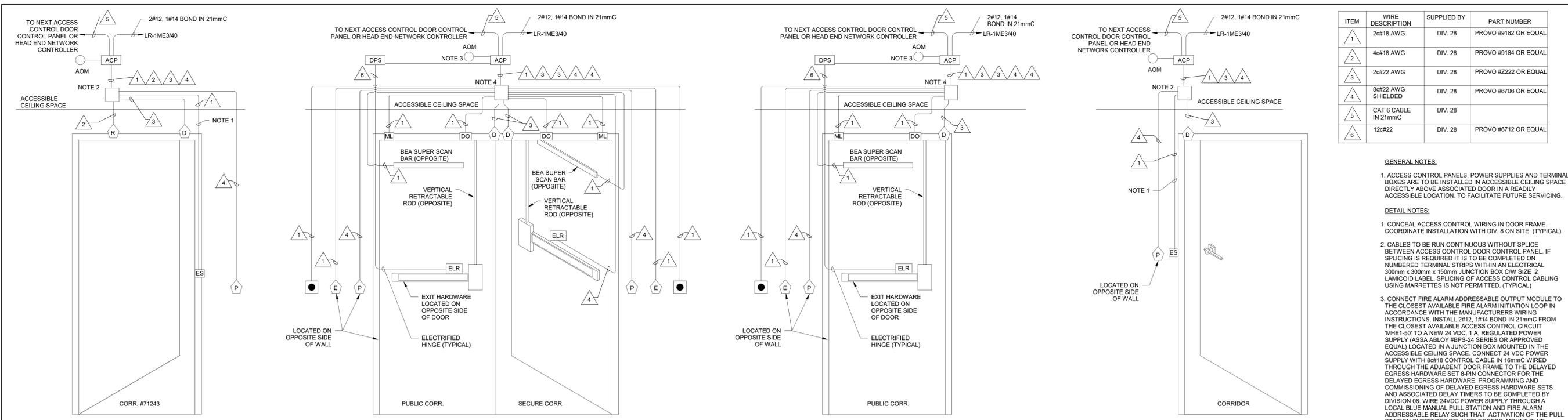


Client  
**Prince Edward Island**  
Health & Wellness  
PO Box 2000  
Charlottetown  
Prince Edward Island  
Canada C1A 7N8

Project Title  
**Queen Elizabeth Hospital  
Mental Health & Addictions  
Emergency Department & Short Stay Unit**

Sheet Title  
**Renovated Floor Plan Level  
200 - Lighting**

No.	Description	Date	Date:	Revision
0	Issued for Tender	2022-03-22	2022-03-22	0
			Drawn By: M.E.M. C.E.T.	
			Chk By: E.S.C. P.ENG	
			Project Number: <b>211025</b>	
			Drawing Number: <b>E601</b>	



ITEM	WIRE DESCRIPTION	SUPPLIED BY	PART NUMBER
1	2c#18 AWG	DIV. 28	PROVO #9182 OR EQUAL
2	4c#18 AWG	DIV. 28	PROVO #9184 OR EQUAL
3	2c#22 AWG	DIV. 28	PROVO #2222 OR EQUAL
4	8c#22 AWG SHIELDED	DIV. 28	PROVO #6706 OR EQUAL
5	CAT 6 CABLE IN 21mmC	DIV. 28	
6	12c#22	DIV. 28	PROVO #6712 OR EQUAL

**GENERAL NOTES:**  
 1. ACCESS CONTROL PANELS, POWER SUPPLIES AND TERMINAL BOXES ARE TO BE INSTALLED IN ACCESSIBLE CEILING SPACE DIRECTLY ABOVE ASSOCIATED DOOR IN A READILY ACCESSIBLE LOCATION. TO FACILITATE FUTURE SERVICING.

**DETAIL NOTES:**  
 1. CONCEAL ACCESS CONTROL WIRING IN DOOR FRAME. COORDINATE INSTALLATION WITH DIV. 8 ON SITE. (TYPICAL)  
 2. CABLES TO BE RUN CONTINUOUS WITHOUT SPLICE BETWEEN ACCESS CONTROL DOOR CONTROL PANEL. IF SPLICING IS REQUIRED IT IS TO BE COMPLETED ON NUMBERED TERMINAL STRIPS WITHIN AN ELECTRICAL 300mm x 300mm x 150mm JUNCTION BOX C/W SIZE 2 LAMICOID LABEL. SPLICING OF ACCESS CONTROL CABLES USING MARRETTES IS NOT PERMITTED. (TYPICAL)  
 3. CONNECT FIRE ALARM ADDRESSABLE OUTPUT MODULE TO THE CLOSEST AVAILABLE FIRE ALARM INITIATION LOOP IN ACCORDANCE WITH THE MANUFACTURERS WIRING INSTRUCTIONS. INSTALL 2#12, 1#14 BOND IN 21mmC FROM THE CLOSEST AVAILABLE ACCESS CONTROL CIRCUIT WHEI-50 TO A NEW 24 VDC, 1 A, REGULATED POWER SUPPLY (ASSA ABLOY #BPS-24 SERIES OR APPROVED EQUAL) LOCATED IN A JUNCTION BOX MOUNTED IN THE ACCESSIBLE CEILING SPACE. CONNECT 24 VDC POWER SUPPLY WITH 8#18 CONTROL CABLE IN 16mmC WIRED THROUGH THE ADJACENT DOOR FRAME TO THE DELAYED EGRESS HARDWARE SET 8-PIN CONNECTOR FOR THE DELAYED EGRESS HARDWARE. PROGRAMMING AND COMMISSIONING OF DELAYED EGRESS HARDWARE SETS AND ASSOCIATED DELAY TIMERS TO BE COMPLETED BY DIVISION 08. WIRE 24VDC POWER SUPPLY THROUGH A LOCAL BLUE MANUAL PULL STATION AND FIRE ALARM ADDRESSABLE RELAY SUCH THAT ACTIVATION OF THE PULL STATION OVERRIDES DELAYED EGRESS. MOUNT BLUE MANUAL PULL STATION AT 1200mm AFF.

4. INSTALL ONE (1) CAMDEN #CX-33 LOGIC CONTROL RELAY WITHIN DOOR OPERATOR ENCLOSURE TO QEH BIOMEDICAL REQUIREMENTS OR OTHERWISE IN ACCESSIBLE TERMINAL STRIP JUNCTION BOX AND SPLICE ALL CABLES ASSOCIATED WITH ADJACENT ACCESS CONTROL DOOR ON NUMBERED TERMINAL STRIPS WITHIN A 300mm x 300mm x 150mm JUNCTION BOX LOCATED IN ACCESSIBLE CEILING SPACE ABOVE DOOR. SPLICING OF ACCESS CONTROL CABLES USING MARRETTES IS NOT PERMITTED. ACCESS CONTROL TERMINAL BOX TO BE READILY ACCESSIBLE WITHIN ACCESSIBLE CEILING SPACE.  
 5. WATERCLOSET 5664C DOOR CONTROLLER LOCATED AT MILLWORK OF OBSERVATION 5672. COORDINATE EXACT LOCATION ON SITE PRIOR TO ROUGH IN. REFERENCE SPECIFIC THEORY OF OPERATION FOR ADDITIONAL INFORMATION. ACCEPTABLE MATERIAL OR APPROVED ALTERNATE

6. ELECTROMAGNETIC LOCK TO BE LOCATED ON FRAME AND BE HIGH SECURITY TYPE WITH A MINIMUM SUSTAINED HOLDING FORCE OF 2700LBS.  
 7. SAFE ROOM 5664A AND 5664B DOOR CONTROLLER (ONE (1) CONTROLLER PER SAFE ROOM) LOCATED IN MILLWORK OF OBSERVATION 5672. COORDINATE EXACT LOCATION ON SITE PRIOR TO ROUGH IN. REFERENCE SPECIFIC THEORY OF OPERATION PRIOR TO ROUGH IN. ACCEPTABLE MATERIAL OR APPROVED ALTERNATE.  
 8. YELLOW MANUAL PULL STATION TO BE RECESS MOUNTED IN A READILY ACCESSIBLE LOCATION BETWEEN THE TWO (2) WORK STATIONS AT APPROXIMATELY 1200mm AFF. YELLOW PULL STATION TO BE COMPLETE WITH A LAMICOID NAMEPLATE WHICH READS "PULL IN A EMERGENCY TO RELEASE ALL DOORS SECURING BOTH SAFE ROOMS"

**THEORY OF OPERATION:** DOOR REMAINS LOCKED AND ELECTRIC STRIKE ENGAGED UNTIL A VALID PROXIMITY CARD IS PRESENTED AT PROXIMITY CARD READER LOCATED IN CORRIDOR 71242 OR REQUEST TO EXIT MOTION SENSOR IS ACTIVATED IN ROOM 71243. DOOR CONTACT TO MONITOR POSITION OF DOOR AND ALARM IF LEFT OPEN.

**THEORY OF OPERATION:** BOTH DOORS ARE TO REMAIN LOCKED UNTIL A VALID PROXIMITY CARD IS PRESENTED AT PROXIMITY CARD READER LOCATED IN EITHER CORRIDOR. IF DOOR HARDWARE IS DEPRESSED IN EITHER CORRIDOR, ELECTRIC LATCH RETRACTION AND 15 SECOND DELAY IS INITIATED AND ELECTROMAGNETIC AND LOCKS RELEASE AT END OF 15 SECONDS DELAY. IF BLUE EGRESS PULL STATION IS PULLED, BOTH DOORS ELECTROMAGNETIC LOCKS RELEASE AND ALARM IS SENT. DOOR CONTACTS ARE TO MONITOR DOOR POSITIONS ONLY AND ALARM IF LEFT OPEN LONGER THAN 30 SECONDS. VERTICAL RODS TO RELEASE WHEN PANIC SET IS DEPRESSED, AND LATCH DOORS SECURE TO MAINTAIN FIRE RATING. BEA SUPERSCAN BARS TO MONITOR FOR DOOR OBSTRUCTIONS. DOOR OPERATOR PUSHBUTTONS TO BE DISABLED UNTIL VALID CARD IS PRESENTED TO READER

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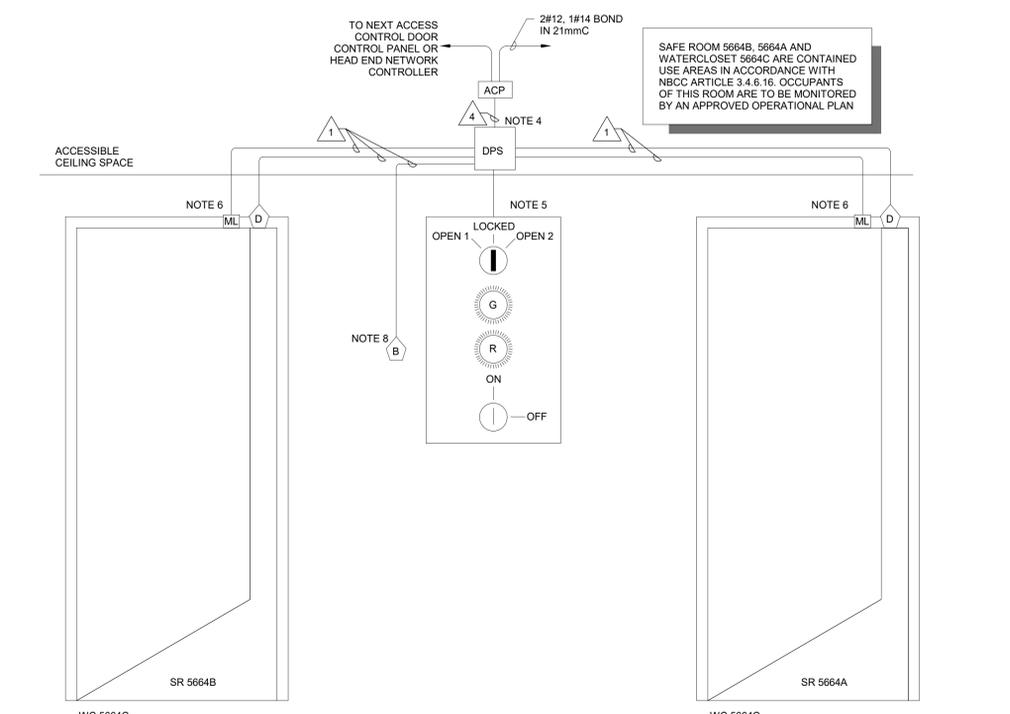
**THEORY OF OPERATION:** DOOR IS TO REMAIN LOCKED UNTIL A VALID PROXIMITY CARD IS PRESENTED TO THE READER LOCATED IN CORRIDOR. DOOR HARDWARE TO BE MANUALLY RELEASED FROM SECURE SIDE OF DOOR. DOOR CONTACT TO MONITOR POSITION OF DOOR AND ALARM IF LEFT OPEN.

DOOR 71243.1

DOORS 5620.1, 5640.1 & 5660.1

DOORS 5640.2, 5645

DOORS 5602, 5612, 5636, 5631, 5638, 5639, 5641A, 5642, 5646, 5655, 5658, 5659, 5674



SAFE ROOM 5664B, 5664A AND WATERCLOSET 5664C ARE CONTAINED USE AREAS IN ACCORDANCE WITH NBCC ARTICLE 3.4.6.16. OCCUPANTS OF THIS ROOM ARE TO BE MONITORED BY AN APPROVED OPERATIONAL PLAN

SAFE ROOM 5664B, 5664A AND WATERCLOSET 5664C ARE CONTAINED USE AREAS IN ACCORDANCE WITH NBCC ARTICLE 3.4.6.16. OCCUPANTS OF THESE SPACES ARE TO BE CONTINUOUSLY MONITORED AND AHJ APPROVED OPERATIONAL PLAN IS TO BE IMPLEMENTED AND MAINTAINED BY THE HOSPITAL ADMINISTRATOR.

**THEORY OF OPERATION:** DOORS BOTH REMAIN LOCKED UNTIL REMOTE ACTUATION DISABLES HIGH SECURITY ELECTROMAGNETIC LOCK. ONLY ONE (1) DOOR CAN BE UNLOCKED AT A TIME VIA REMOTE THUMB SWITCH. ONLY THE KEY SWITCH WILL ALLOW BOTH DOORS TO BE UNLOCKED AT THE SAME TIME. IF BOTH ELECTROMAGNETIC LOCKS ARE ENERGIZED AND DOORS ARE PROOFED TO BE CLOSED THE RED INDICATOR LIGHT WILL ILLUMINATE. IF EITHER DOOR IS UNLOCKED, THE GREEN INDICATOR LIGHT WILL ILLUMINATE. DOORS WILL NOT DISABLE UPON FIRE ALARM OR ALLOW FREE EGRESS AS THESE ARE CONSIDERED CONTAINED USE AREAS IN ACCORDANCE WITH NBCC ARTICLE 3.4.6.16

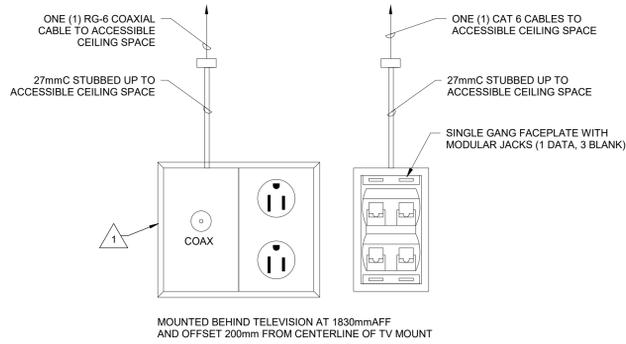
**THEORY OF OPERATION:** BOTH DOORS TO REMAIN LOCKED UNTIL VALID PROXIMITY CARD IS PRESENTED TO UNLOCK THAT ASSOCIATED DOOR ONLY. OTHERWISE REMOTE CONTROL STATION AT OBSERVATION 5672 CAN MOMENTARILY RELEASE HIGH SECURITY ELECTRO MAGNETIC LOCK TO EITHER DOOR. DOORS WILL NOT DISABLE UPON FIRE ALARM OR ALLOW FREE EGRESS AS THESE ARE CONSIDERED CONTAINED USE AREAS IN ACCORDANCE WITH NBCC ARTICLE 3.4.6.16

1 E700 DETAIL - ACCESS CONTROL NTS

DOOR 5664C.2 & 5664C.1

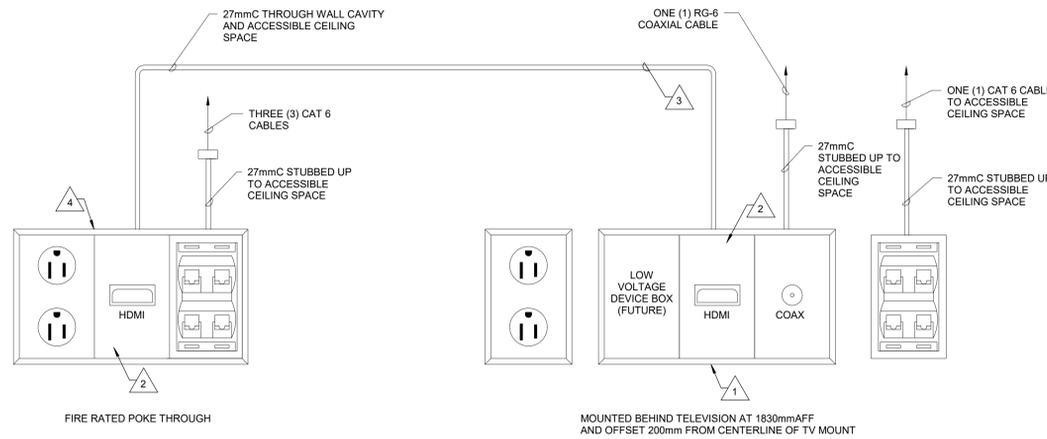
<p>Suite 201, 85 Fitzroy Street Charlottetown, P.E.I., Canada, C1A 1R8 Phone: (902) 368-2300 www.colesassociates.com</p>			<p>Client            Health &amp; Wellness          PO Box 2000          Charlottetown          Prince Edward Island          Canada C1A 7N8</p>	<p>Project Title          Queen Elizabeth Hospital          Mental Health &amp; Addictions          Emergency Department &amp; Short Stay Unit</p>	<p>Sheet Title          Access Control Details</p>	<p>No. 0</p>	<p>Description          Issued for Tender</p>	<p>Date          2022-03-22</p>	<p>Date:          2022-03-22</p>	<p>Drawn By:          M.E.M. C.E.T.</p>	<p>Revision  </p>
						<p>Checked By:          E.S.C. P.ENG</p>	<p>Project Number:          211025</p>	<p>Drawing Number:          E700</p>			

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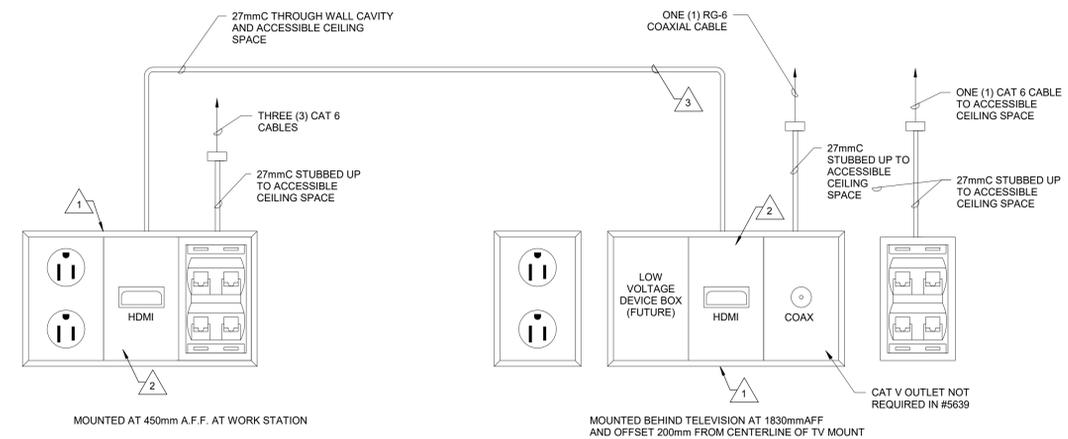


1  
E701  
DETAIL - TELEVISION OUTLET (5611, 5632, 5634, 5677)  
NTS

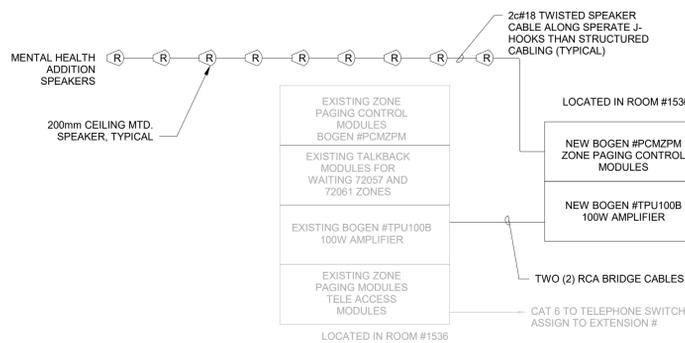
DETAIL NOTES		
ITEM	DESCRIPTION	PART NUMBER
1	3-GANG OR 2-GANG AS INDICATED DECORA STYLE RECESSED WALL BOX. WHITE IN COLOUR	LEGRAND # TV3WW#TV2WW OR APPROVED EQUAL
2	PASSIVE HDMI DECORA STYLE WALL PLATE. WHITE IN COLOUR C/W FEMALE HDMI PIGTAIL, AND FEMALE CONNECTOR	CABLES TO GO # 41042 OR APPROVED EQUAL
3	41mmC C/W HDMI CABLE. CONFIRM EXACT LENGTH OF HDMI CABLE REQUIRED PRIOR TO ORDERING.	CABLES TO GO # 50633 OR APPROVED EQUAL
4	3-GANG FIRE RATED POKE THROUGH COMPATIBLE WITH 100mm DEEP CONCRETE C/W FLUSH MOUNTED COVER WITH ARTICULATED HINGE. BOX AND COVER TO BE BLACK IN COLOUR. PROVIDE BLANK FACEPLATES FOR SPARE OUTLETS. FLOOR BOX COVER TO BE COMPATIBLE WITH NEW FLOORING.	HUBBEL SYSTEM ONE # S1R6PTFIT, # S1R6CVRBLK (REFERENCE SPECIFICATION FOR ADDITIONAL INFORMATION)



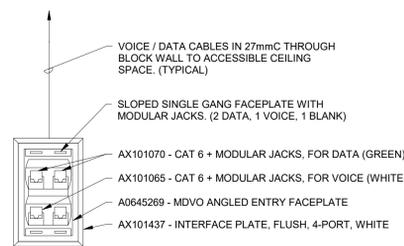
2  
E701  
DETAIL - AV OUTLET IN ROOM #5638  
NTS



3  
E701  
DETAIL - FLOOR BOX OUTLET IN ROOM #5639 & #5611  
NTS



4  
E701  
DETAIL - PARTIAL PUBLIC ADDRESS SYSTEM RISER  
NTS

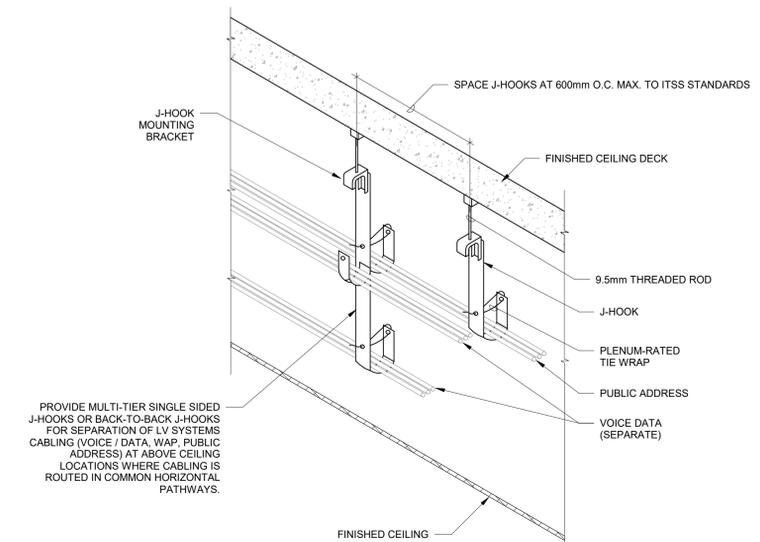


NOTES:

- 4-PORT ANGLED FACE PLATES SHALL BE FOR MDVO STYLE JACKS, WITH 3 PORTS USED IN EACH INSTANCE (2 DATA, TELEPHONE). THE UPPER PORTS ARE TO BE USED FOR DATA TERMINATIONS AND THE LOWER FOR VOICE, UNLESS OTHERWISE STATED. RELEASE TAB ON THE DATA CABLE TO BE FACING UPWARDS.
- OUTLET PORT SHALL BEAR THE SAME IDENTIFYING NUMBER. THE NUMBERING SCHEME FOR THE BUILDING DATA OUTLETS SHALL BE ASSIGNED IN A LOGICAL, SEQUENTIAL MANNER. NUMBERING SCHEME TO BE COORDINATED WITH ITSS. NUMBERING THE PLATES SHALL BE VIEWABLE FROM BOTH IN FRONT AND ABOVE. A CONTRACTOR MUST ASSIGN THESE JACK NUMBERS ON THE FLOOR PLANS, PRIOR TO PULLING IN ANY CABLE.

TELECOMMUNICATION SYSTEM TO BE INSTALLED IN ACCORDANCE WITH THE GOVERNMENT OF PRINCE EDWARD ISLAND STRUCTURED CABLING STANDARDS. REFERENCE APPENDICES SECTION OF BOUND SPECIFICATION FOR ADDITIONAL INFORMATION.

5  
E701  
ITSS 4-PORT OUTLET DETAIL (TYPICAL)  
NTS



PROVIDE MULTI-TIER SINGLE SIDED J-HOOKS OR BACK-TO-BACK J-HOOKS FOR SEPARATION OF LV SYSTEMS CABLING (VOICE / DATA, WAP, PUBLIC ADDRESS) AT ABOVE CEILING LOCATIONS WHERE CABLING IS ROUTED IN COMMON HORIZONTAL PATHWAYS.

6  
E701  
DETAIL - J-HOOKS  
NTS

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PROVINCE OF PRINCE EDWARD ISLAND

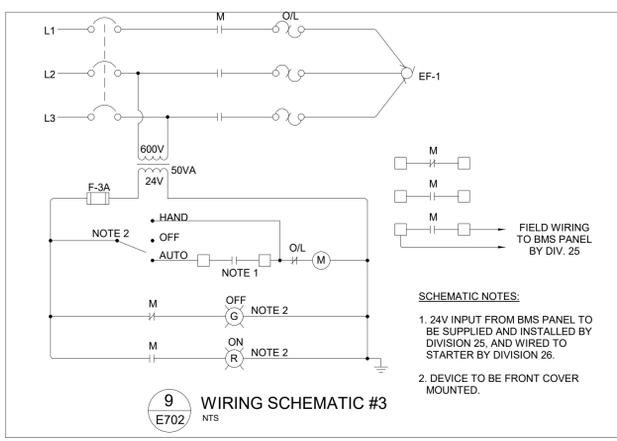
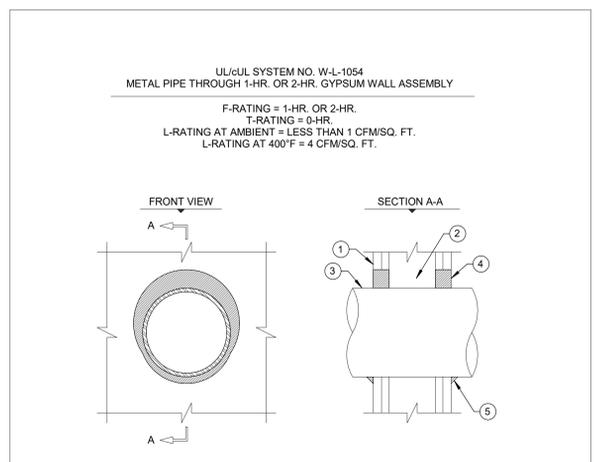
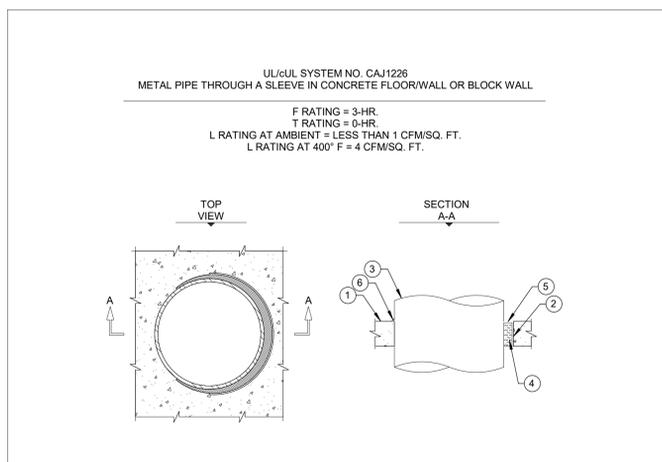
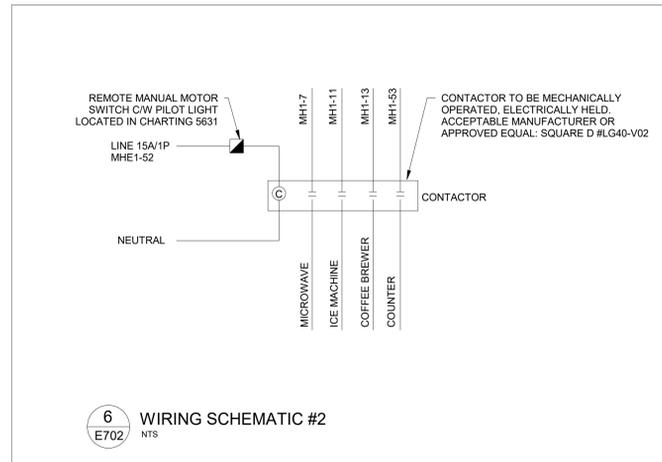
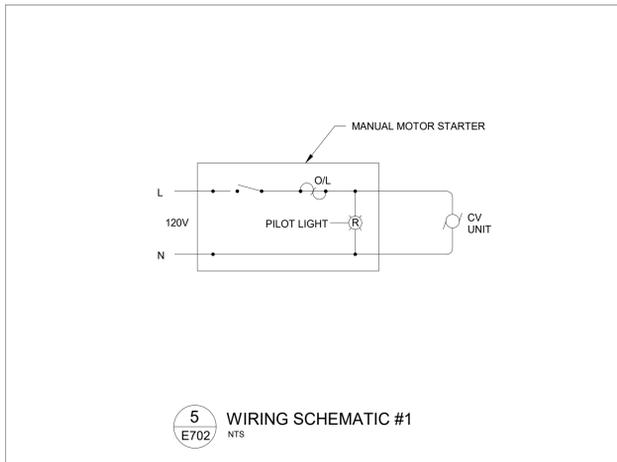
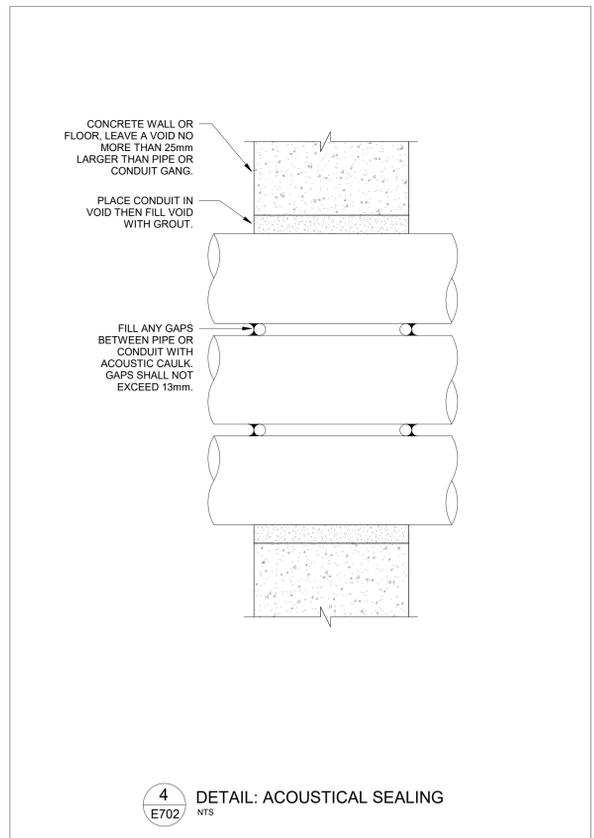
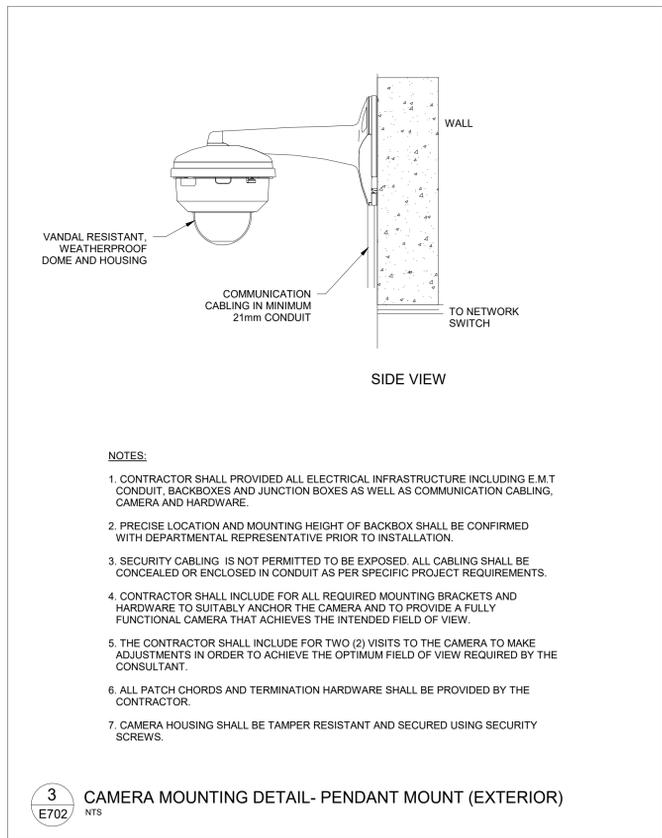
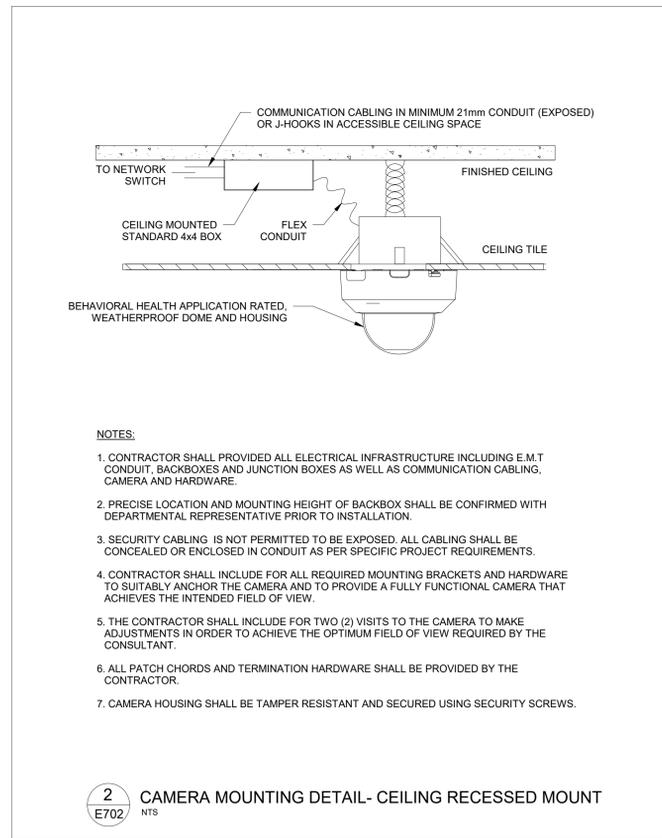
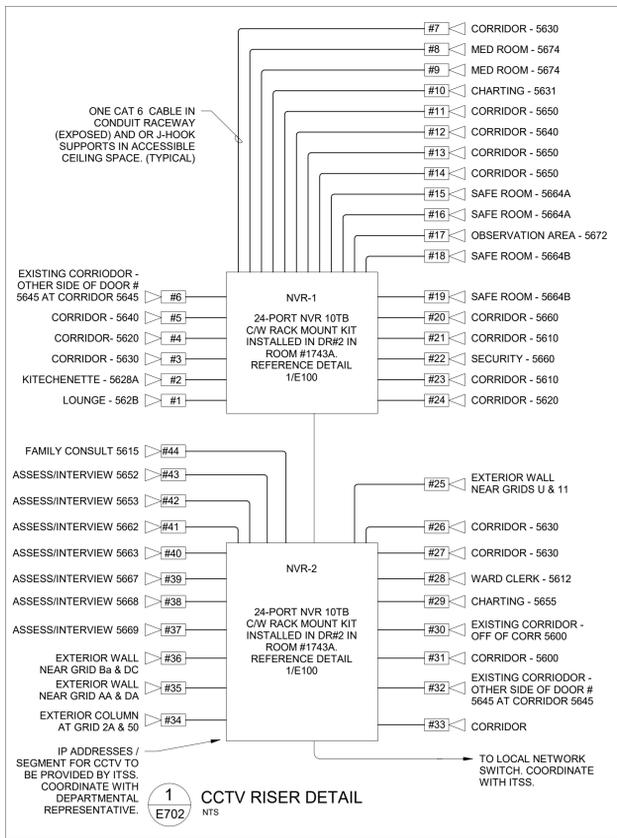
Client  
**Prince Edward Island**  
CANADA

Health & Wellness  
PO Box 2000  
Charlottetown  
Prince Edward Island  
Canada C1A 7N8

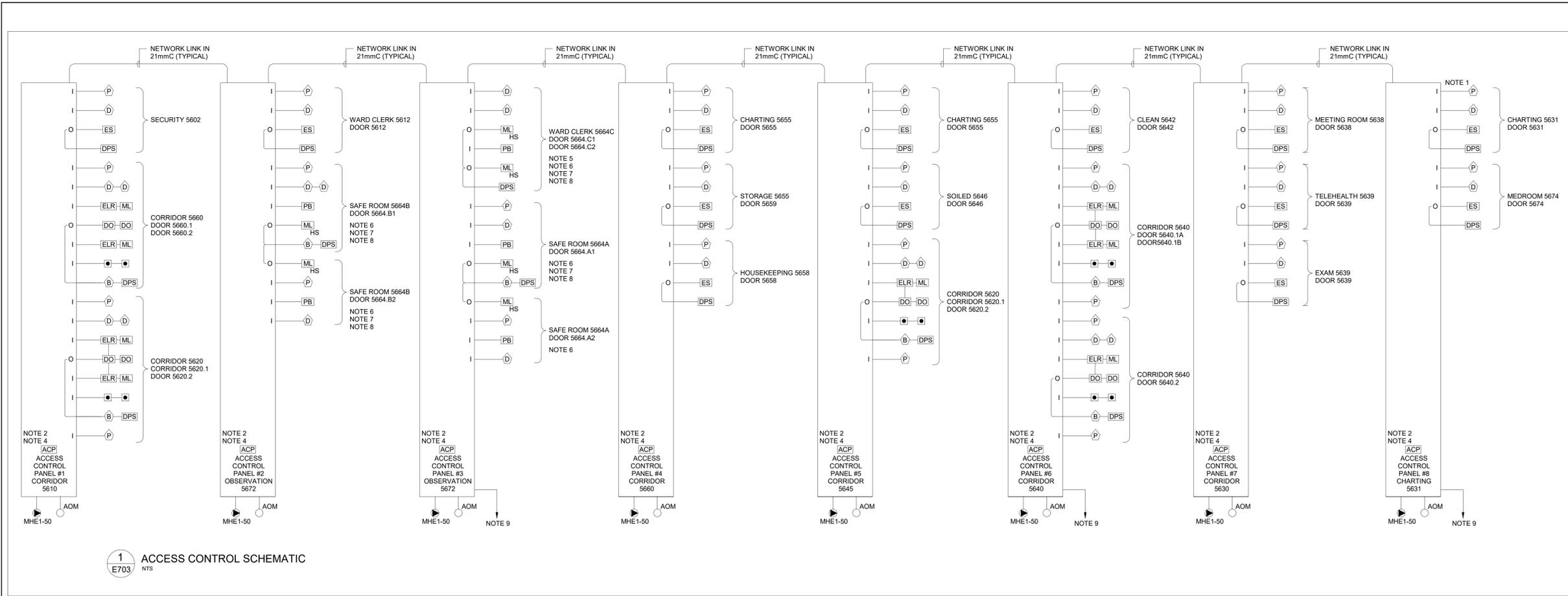
Project Title  
Queen Elizabeth Hospital  
Mental Health & Addictions  
Emergency Department & Short Stay Unit

Sheet Title  
Electrical Details

No.	Description	Date	Date:	Revision
0	Issued for Tender	2022-03-22	2022-03-22	0
			Dim By: M.E.M. C.E.T.	
			Chk By: E.S.C. P.ENG	
			Project Number:	
			<b>211025</b>	
			Drawing Number:	
			<b>E701</b>	



MECHANICAL EQUIPMENT SCHEDULE							
TYPE	LOCATION	DESCRIPTION	VOLTS	PHASE	RATED KW	AMP	REMARKS
CV-1	VARIOUS	HYDRONIC DUCT TERMINAL UNIT	120	1	0.24	- 2.0	
CV-2	VARIOUS	HYDRONIC DUCT TERMINAL UNIT	120	1	0.24	- 2.0	
CV-3	VARIOUS	HYDRONIC DUCT TERMINAL UNIT	120	1	0.24	- 2.0	
CV-4	VARIOUS	HYDRONIC DUCT TERMINAL UNIT	120	1	0.24	- 2.0	
EF-1	PENTHOUSE	SANITARY EXHAUST FAN	600	3	0.56	0.75	CONNECT WITH 2#12 TECK THROUGH LOCAL COMBINATION MAGNETIC MOTOR STARTER. REFERENCE WIRING SCHEMATIC #2
EF-2	PENTHOUSE	VEHICLE EXHAUST FAN	600	3	-	5	CONNECT WITH 3#12 TECK THROUGH LOCAL UNFUSED DISCONNECT SWITCH TO VFD IN UPPER PENTHOUSE. VFD SUPPLIED AND INSTALLED BY MECHANICAL CONTRACTOR
P-1	PENTHOUSE	CIRCULATION PUMP	208	1	0.5	- 2.4	
P-2	PENTHOUSE	CIRCULATION PUMP	208	1	0.5	- 2.4	
P-3	PENTHOUSE	CIRCULATION PUMP	208	1	0.5	- 2.4	
P-4	PENTHOUSE	CIRCULATION PUMP	208	1	0.5	- 2.4	CONNECT PUMP WITH 2#12 TECK THROUGH A LOCAL COMBINATION MAGNETIC MOTOR STARTER REFERENCE WIRING SCHEMATIC #1



- DETAIL NOTES:**
- CONCEAL ACCESS CONTROL WIRING IN DOOR FRAME. COORDINATE INSTALLATION WITH DIV. 8 ON SITE. (TYPICAL)
  - CABLES TO BE RUN CONTINUOUS WITHOUT SPLICE BETWEEN ACCESS CONTROL DOOR CONTROL PANEL. IF SPLICING IS REQUIRED IT IS TO BE COMPLETED ON NUMBERED TERMINAL STRIPS WITHIN AN ELECTRICAL 300mm x 300mm x 150mm JUNCTION BOX C/W SIZE 2 LAMICOID LABEL. SPLICING OF ACCESS CONTROL CABLING USING MARRETTES IS NOT PERMITTED. (TYPICAL)
  - CONNECT FIRE ALARM ADDRESSABLE OUTPUT MODULE TO THE CLOSEST AVAILABLE FIRE ALARM INITIATION LOOP IN ACCORDANCE WITH THE MANUFACTURERS WIRING INSTRUCTIONS. INSTALL #12, #14 BOND IN 21mmC FROM THE CLOSEST AVAILABLE ACCESS CONTROL CIRCUIT 'LR-1ME340' TO A NEW 24 VDC, 1 A, REGULATED POWER SUPPLY (ASSA ABLOY #BPS-24 SERIES OR APPROVED EQUAL) LOCATED IN A JUNCTION BOX MOUNTED IN THE ACCESSIBLE CEILING SPACE. CONNECT 24 VDC POWER SUPPLY WITH #8#18 CONTROL CABLE IN 16mmC WIRED THROUGH THE ADJACENT DOOR FRAME TO THE DELAYED EGRESS HARDWARE SET 8-PIN CONNECTOR FOR THE DELAYED EGRESS HARDWARE. PROGRAMMING AND COMMISSIONING OF DELAYED EGRESS HARDWARE SETS AND ASSOCIATED DELAY TIMERS TO BE COMPLETED BY DIVISION 08. WIRE 24VDC POWER SUPPLY THROUGH A LOCAL BLUE MANUAL PULL STATION AND FIRE ALARM ADDRESSABLE RELAY SUCH THAT ACTIVATION OF THE PULL STATION OVERRIDES DELAYED EGRESS. MOUNT BLUE MANUAL PULL STATION AT 1200mm AFF.
  - INSTALL ONE (1) CAMDEN #CX-33 LOGIC CONTROL RELAY WITHIN DOOR OPERATOR ENCLOSURE TO OEH BIOMEDICAL REQUIREMENTS OR OTHERWISE IN ACCESSIBLE TERMINAL STRIP JUNCTION BOX AND SPLICE ALL CABLING ASSOCIATED WITH ADJACENT ACCESS CONTROLLED DOOR ON NUMBERED TERMINAL STRIPS WITHIN A 300mm x 300mm x 150mm JUNCTION BOX LOCATED IN ACCESSIBLE CEILING SPACE ABOVE DOOR. SPLICING OF ACCESS CONTROL CABLING USING MARRETTES IS NOT PERMITTED. ACCESS CONTROL TERMINAL BOX TO BE READILY ACCESSIBLE WITHIN ACCESSIBLE CEILING SPACE.
  - WATERCLOSET 5664C DOOR CONTROLLER LOCATED AT MILLWORK OF OBSERVATION 5672. COORDINATE EXACT LOCATION ON SITE PRIOR TO ROUGH IN. REFERENCE SPECIFIC THEORY OF OPERATION FOR ADDITIONAL INFORMATION. ACCEPTABLE MATERIAL OR APPROVED ALTERNATE
    - 4-HOLE THERMOPLASTIC ENCLOSURE C/W LAMICOID OPERATION LABELLING. RECESS MOUNTED IN MILLWORK. SINGLE GANG. ALLEN BRADLEY #800H-4H24C
    - 30mm, 3-POSITION MAINTAINED, BLACK THERMOPLASTIC THUMB SWITCH C/W CONTACT BLOCK AND METAL RING AND OVERSIZED LEVER OPERATOR. ALLEN BRADLEY #800H-NR2KF3
    - 30mm LOW VOLTAGE PILOT LIGHT, SINGLE GREEN LED TO INDICATE 'OPEN' STATUS AND SINGLE RED LED TO INDICATE LOCKED STATUS WHEN BOTH ELECTROMAGNETIC LOCKS ARE ENERGIZED (TWO PILOT LIGHTS TOTAL). ALLEN BRADLEY #800T SERIES
    - 30mm 2-POSITION MAINTAINED KEY CYLINDER LOCK C/W CONTACT BLOCK AND METAL RING GUARD. ALLEN BRADLEY #800T-C-H33-B
  - ELECTROMAGNETIC LOCK TO BE LOCATED ON FRAME AND BE HIGH SECURITY TYPE WITH A MINIMUM SUSTAINED HOLDING FORCE OF 2700LBS.
  - SAFE ROOM 5664A AND 5664B DOOR CONTROLLER (ONE (1) CONTROLLER PER SAFE ROOM) LOCATED IN MILLWORK OF OBSERVATION 5672. COORDINATE EXACT LOCATION ON SITE PRIOR TO ROUGH IN. REFERENCE SPECIFIC THEORY OF OPERATION PRIOR TO ROUGH IN. ACCEPTABLE MATERIAL OR APPROVED ALTERNATE
    - 2-HOLE THERMOPLASTIC ENCLOSURE INDICATING DOOR CONTROL FUNCTION. RECESSED IN MILLWORK. SINGLE GANG. ALLEN BRADLEY #800H-2H24C
    - 30mm ILLUMINATED LOW VOLTAGE MOMENTARY PUSHBUTTON C/W GREEN LED, NO NC CONTACTS AND METAL MOUNTING RING. PUSHBUTTON TO ILLUMINATE GREEN WHEN DEPRESS TO RELEASE DOOR. ALLEN BRADLEY #800T-QAH2G.
  - YELLOW MANUAL PULL STATION TO BE RECESS MOUNTED IN A READILY ACCESSIBLE LOCATION BETWEEN THE TWO (2) WORK STATIONS AT APPROXIMATELY 1200mm AFF. YELLOW PULL STATION TO BE COMPLETE WITH A LAMICOID NAMEPLATE WHICH READS 'PULL IN EMERGENCY TO RELEASE ALL DOORS SECURING BOTH SAFE ROOMS'
  - EVERY GROUP OF THREE (3) AXIOM #RC2 DOOR CONTROLLERS IS TO BE CONNECTED WITH A CAT6 NETWORK LINK IN 21mmC TO RBH #UNC500 CONTROLLER.

