

MECHANICAL LEGEND	
HEATING, VENTILATION AND AIR CONDITIONING (HVAC)	
	RIGID DUCTWORK
	ACOUSTICALLY LINED DUCTWORK
	FLEXIBLE ROUND DUCTWORK
	SUPPLY DUCTWORK RISER UP
	EXHAUST/RETURN DUCTWORK RISER UP
	SUPPLY DUCTWORK RISER DOWN
	EXHAUST/RETURN DUCTWORK RISER DOWN
	BALANCING DAMPER
	SPLITTER DAMPER
	DOOR UNDERCUT
	DOOR GRILLE
	CAPPED DUCTWORK
	SPIN-ON FITTING WITH BALANCING DAMPER
	SUPPLY AIR DIFFUSER
	RETURN/EXHAUST AIR GRILLE
	FLEXIBLE CONNECTION
	SUPPLY AIR GRILLE - WALL-MOUNTED
	RETURN AIR GRILLE - WALL-MOUNTED
	FLEXIBLE DUCT CONNECTION TO RIGID DUCTWORK
	SQUARE ELBOW WITH AIR TURNING VANES
	FUSIBLE LINK FIRE DAMPER WITH ACCESS DOOR IN DUCT
	MOTORIZED DAMPER
	BACK DRAFT DAMPER
	BALANCING DAMPER
	BRANCH TAKE-OFF WITH ADJUSTABLE SPLITTER DAMPER IN SUPPLY DUCT
	OPEN ENDED DUCT WITH BALANCING DAMPER AND BELLMOUTH INLET
	AIR HANDLING UNIT SILENCER AS PER SILENCER SCHEDULE
	DENOTES DIFFUSER TYPE - DENOTES AIRFLOW (IN L/S) DENOTES NECK SIZE, DUCTWORK TO MATCH.
	THERMOSTAT TIED TO AN EXISTING CONTROL SYSTEM
	STANDALONE THERMOSTAT
	PUMP
	HOT WATER SUPPLY - HEATING
	HOT WATER RETURN - HEATING
	HOT WATER REVERSE RETURN - HEATING
	REFRIGERATION LINE - LIQUID
	REFRIGERATION LINE - GAS
	CONDENSATE LINE
	NATURAL GAS LINE
	NATURAL GAS VENT LINE
	COMPRESSED AIR LINE
	ISOLATION VALVE. TYPE AS PER SPECIFICATION
	BALANCING VALVE
	STRAINER
	PRESSURE REDUCING VALVE
	AUTOMATIC 2-WAY CONTROL VALVE
	AUTOMATIC 3-WAY CONTROL VALVE
	CHECK VALVE
	UNION
	MANUAL AIR VENT
	DENOTES EXISTING PIPING TO BE REMOVED
	DENOTES EXISTING PIPING TO REMAIN
	DENOTES NEW PIPING
	GAS METER
	PROPANE METER
	ELECTRIC HEAT TRACING; DIVISION 15 UNLESS OTHERWISE NOTED
	PRESSURE GAUGE
	THERMOMETER
	PIPE UP
	PIPE DOWN

MECHANICAL LEGEND	
HEATING, VENTILATION AND AIR CONDITIONING (HVAC)	
	WALL FIN HEATER
	CV-A DENOTES TYPE
	7000 DENOTES HEAT OUTPUT IN WATTS
	0.15 DENOTES FLOW RATE IN L/S
	FORCED FLOW HEATER FFH-A DENOTES TYPE REFER TO FORCED FLOW HEATER SCHEDULE FOR HEAT OUTPUT AND FLOW RATE
	VAV BOX
PLUMBING AND DRAINAGE	
	ABOVE-GROUND STORM
	UNDERGROUND STORM
	ABOVE-GROUND SANITARY
	UNDERGROUND SANITARY
	PUMPED SANITARY
	RUNNING TRAP
	PLUMBING TRAP
	SANITARY VENT
	SANITARY CLEANOUT IN ACCESSIBLE CEILING SPACE
	SANITARY CLEANOUT IN SLAB
	DOMESTIC COLD WATER
	DOMESTIC HOT WATER
	DOMESTIC HOT WATER RECIRCULATION
	BACKFLOW PREVENTER - SUITABLE FOR SERVICE INTENDED
	WATER METER
	HOSE BIBB
	NON-FREEZE HOSE BIBB
	VENT THROUGH ROOF
	RAIN WATER LEADER
	FLOOR DRAIN
	FUNNEL FLOOR DRAIN
	ROOF DRAIN
CONTROLS	
	BAS - TEMPERATURE SENSOR - IN PIPING
	BAS - CURRENT SENSOR
	BAS - PRESSURE SWITCH
	BAS - FLOW SWITCH
	BAS - ANALOG INPUT
	BAS - ANALOG OUTPUT
	BAS - DIGITAL INPUT
	BAS - DIGITAL OUTPUT
FIRE PROTECTION	
	FIRE EXTINGUISHER IN ENCLOSURE C/W MOUNTING BRACKET
	FIRE EXTINGUISHER C/W MOUNTING BRACKET
	FIRE BLANKET
ACRONYMS	
LABEL	DESCRIPTION
AD	ACCESS DOOR
AC	AIR CONDITIONER
BD	BALANCING DAMPER
BDD	BACKDRAFT DAMPER
CAP	CAP EXISTING SERVICE
CD	CONDENSATE
CTE	CONNECT TO EXISTING
CUT	CUT POINT
DF	DRINKING FOUNTAIN
EA	EXHAUST AIR
EX	EXISTING
FD	FIRE DAMPER
FE	FIRE EXTINGUISHER
FS	FLOW SWITCH
HHS	HAND-HELD SHOWER
LV	LAVATORY
MD	MOTORIZED DAMPER
NO	NORMALLY OPEN
NC	NORMALLY CLOSED
OA	OUTDOOR AIR
PG	PRESSURE GAUGE
RWL	RAIN WATER LEADER
REM	REMOVE
RP	REPLACE
RA	RETURN AIR
SA	SUPPLY AIR
SV	SUPERVISED VALVE
TYP	TYPICAL
UV	UNIT VENTILATOR
VTR	VENT THROUGH ROOF
WD	WASHER-DRYER UNIT
WC	WATER CLOSET

- GENERAL NOTES:**
- ALL DEMOLITION AND NEW WORK SHALL BE COORDINATED WITH ALL TRADES PRESENT ON SITE. CONSTRUCT NEW SERVICES AND LOCATE NEW EQUIPMENT IN SUCH A WAY THAT IT DOES NOT CONFLICT WITH WORK OF OTHER DIVISIONS AND/OR THE OPERATION/MAINTENANCE OF WORK/MATERIAL SUPPLIED BY OTHER DIVISIONS.
 - IT IS MANDATORY FOR THE MECHANICAL CONTRACTOR TO VISIT THE SITE PRIOR TO BIDDING AND REVIEW EXISTING CONDITIONS AND DEMOLITION SCOPE OF WORK TO SUIT EXISTING ARCHITECTURAL, ELECTRICAL, STRUCTURAL AND MECHANICAL SITE CONDITIONS, DRAWINGS, SPECIFICATIONS AND ALL CONTRACT DOCUMENTS. NO EXTRA WILL SUBSEQUENTLY BE ALLOWED TO COVER ANY SUCH ERROR, OMISSION AND/OR OVERSIGHT FOR NOT HAVING MADE A THOROUGH INSPECTION OF THE GROUNDS, EXISTING CONDITIONS, DRAWINGS, SPECIFICATION AND DESIGN INTENT. THE ELECTRICAL CONTRACTOR SHALL NOTE THAT THE EXISTING BUILDING WILL REMAIN IN OPERATION THROUGHOUT DEMOLITION/CONSTRUCTION. ALLOW FOR ANY WORK REQUIRED TO BE DONE WHICH MAY AFFECT POWER SUPPLY AND OPERATION OF THE BUILDING TO BE CARRIED OUT AFTER HOURS OR AT A TIME CONVENIENT TO THE BUILDING MANAGEMENT. PROVIDE TEMPORARY SERVICES AS REQUIRED TO ENSURE CONTINUED OPERATION AT ALL TIMES.
 - CAREFULLY EXAMINE OTHER EXISTING UTILITY LINES SUCH AS GAS, WATER ETC. PRIOR TO STARTING ANY WORK.
 - THESE DRAWINGS SHALL BE READ & PRICED IN CONJUNCTION WITH ALL DRAWINGS AND SPECIFICATIONS FORMING THE CONTRACT AS WELL AS ALL OTHER DOCUMENTS FORMING THIS BID. NO EXTRA COST WILL BE ACCEPTED IN FAILURE TO OBTAINING AND/OR REVIEW OF SUCH DOCUMENTS. REFER TO ARCHITECTURAL, ELECTRICAL, FIRE PROTECTION STRUCTURAL AND MECHANICAL LAYOUTS IN CONJUNCTION FOR EXACT LOCATION OF ALL EQUIPMENT. REPORT ANY DISCREPANCIES TO THE MECHANICAL ENGINEER PRIOR TO COMMENCING WORK. NO EXTRA WILL BE PROVIDED AS A RESULT OF A FAILURE TO DO SO.
 - IT IS MANDATORY THAT ALL WORK COMPLY WITH ALL APPLICABLE CODES AND, CITY OF TORONTO STANDARDS, AND THE STANDARDS SET BY ANY AND ALL LOCAL AUTHORITIES HAVING JURISDICTION.
 - ARRANGE FOR ALL INSPECTIONS REQUIRED BY AUTHORITIES HAVING JURISDICTION AS MANDATED BY CODES OR THE REQUIREMENTS OF THE AUTHORITIES. ATTEND ALL INSPECTIONS AND FURNISH ALL MATERIALS AND LABOUR REQUIRED TO COMPLETE THE INSPECTIONS TO THE SATISFACTION OF THE AUTHORITIES.
 - IN THE EVENT OF ANY DISCREPANCY BETWEEN THE MECHANICAL DRAWINGS AND SPECIFICATIONS, ALLOW FOR THE HIGHEST-PRICED OPTION IN THE TENDER PRICE.
 - ALL EQUIPMENT AND SERVICES SHALL BE STARTED-UP BY THE CONTRACTOR AND BY THE APPROPRIATE AGENCIES REQUIRED FOR CONDUCTING SUCH START-UPS. PROVIDE A MINIMUM OF 10 BUSINESS DAYS NOTICE TO THE MECHANICAL ENGINEER OF NEW EQUIPMENT/ SERVICES START-UPS.
 - FURNISH ALL MATERIAL AND EQUIPMENT AS SPECIFIED, EXCEPT WHERE SPECIFIC APPROVAL FOR SUBSTITUTION IS GIVEN IN WRITING BY THE TENANT.
 - PROVIDE AS-BUILT DRAWINGS IN CAD AND PDF FORMAT AT THE CONCLUSION OF THE PROJECT TO THE OWNER, ARCHITECT AND ENGINEERS.

DRAWING LIST	
DRAWING NUMBER	DESCRIPTION
M1	MECHANICAL LEGEND AND NOTES
M2	BASEMENT LEVEL KEY PLAN
M3	FIRST FLOOR KEY PLAN
M4	FIRST FLOOR - EXISTING & NEW MECHANICAL LAYOUTS
M5	BASEMENT - EXISTING & NEW MECHANICAL LAYOUTS
M6	SCHEDULES & SCHEMATICS
M7	SITE PHOTOS
M8	SITE PHOTOS

- NOTES ABOUT ABATEMENT**
- REFER TO THE PROJECT-SPECIFIC DESIGNATED SUBSTANCES SURVEY CONDUCTED FOR THIS PROJECT DURING PRICING AND THROUGHOUT CONSTRUCTION. IT IS INCLUDED IN THE TENDER PACKAGE.
 - THE GENERAL CONTRACTOR IS RESPONSIBLE FOR COMPLETING ALL NECESSARY ABATEMENT WORK WITHIN THE WORK AREA REQUIRED FOR THIS PROJECT AS PART OF THE BASE TENDER PRICE BASED ON THE PROJECT-SPECIFIC DSS.
 - THE CONTRACTOR SHALL RETAIN ONLY LICENSED ABATEMENT/ENVIRONMENTAL CONTRACTORS TO COMPLETE ALL NECESSARY ABATEMENT WORK.
 - COORDINATE ALL ABATEMENT ACTIVITIES WITH THE ENVIRONMENTAL CONSULTANT IN ADVANCE OF WORK EXECUTION. THE ENVIRONMENTAL CONSULTANT IS RETAINED DIRECTLY BY THE OWNER TO SUPERVISE ABATEMENT ACTIVITIES AS WELL AS CONDUCT POST-ABATEMENT INSPECTIONS.

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

1	ISSUED FOR TENDER	JUN. 10/24
No.	REVISION	DATE

Contractors shall verify all dimensions at the job.

SAL Project No.:24-104

Mechanical & Electrical Consultant:
SURI & ASSOCIATES LTD.
 ENGINEERING CONSULTANTS

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ELECTRICAL MECHANICAL LIGHTING COMMUNICATION SECURITY

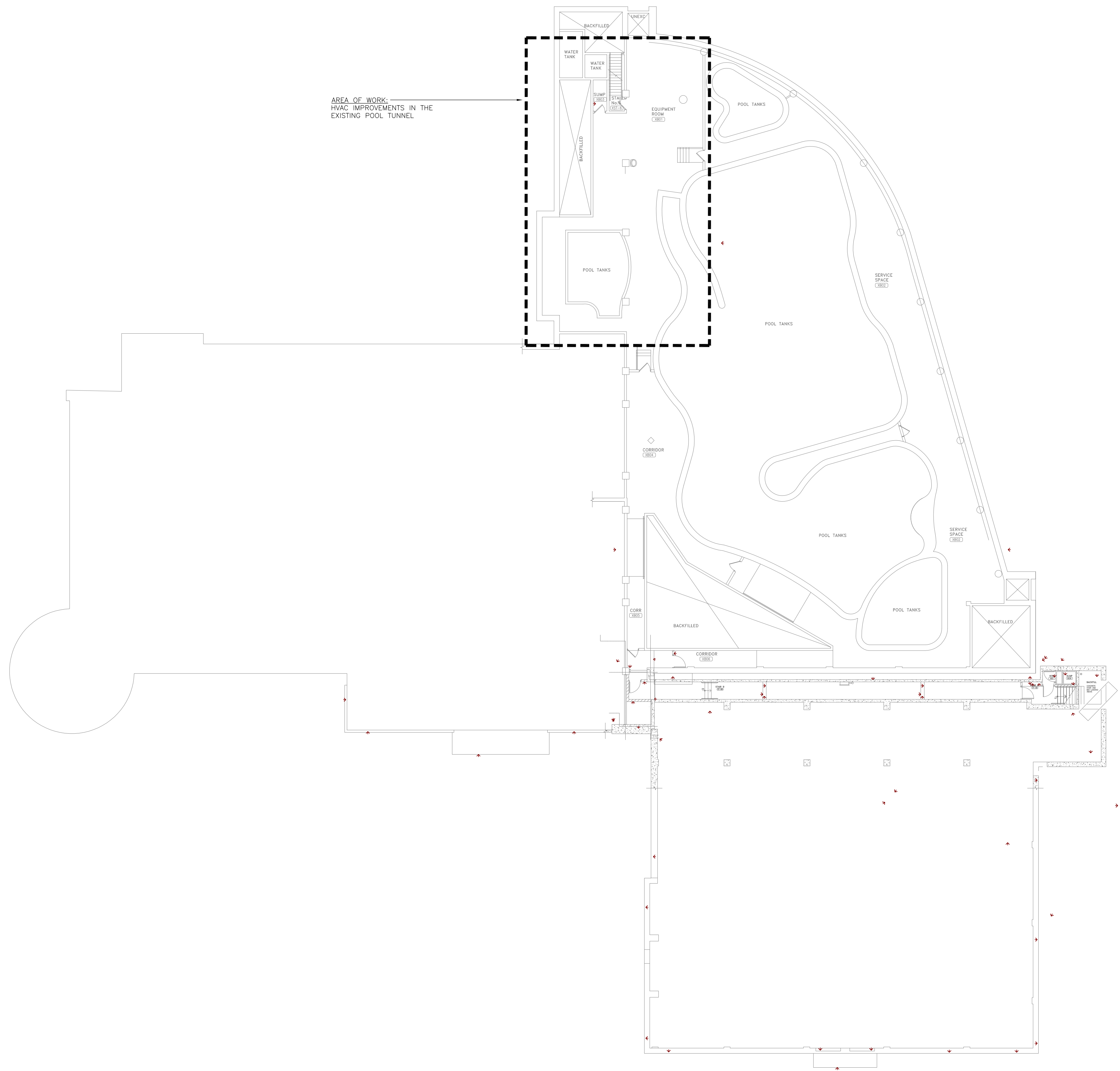


Project
 BIRCHMOUNT COMMUNITY CENTRE
 93 BIRCHMOUNT ROAD,
 TORONTO, ONTARIO. M1N 3J7

POOL HVAC IMPROVEMENTS

Drawing Title
 MECHANICAL LEGEND AND NOTES

Checked:	RS	Date:	MAY 2024
Drawn:	RS	Scale:	AS NOTED
File Number:		Dwg Number:	M1

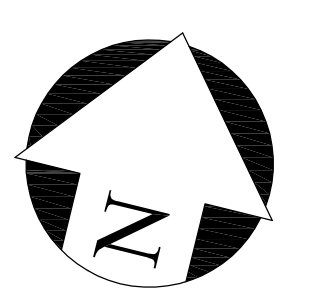


AREA OF WORK:
HVAC IMPROVEMENTS IN THE
EXISTING POOL TUNNEL

GENERAL NOTES :
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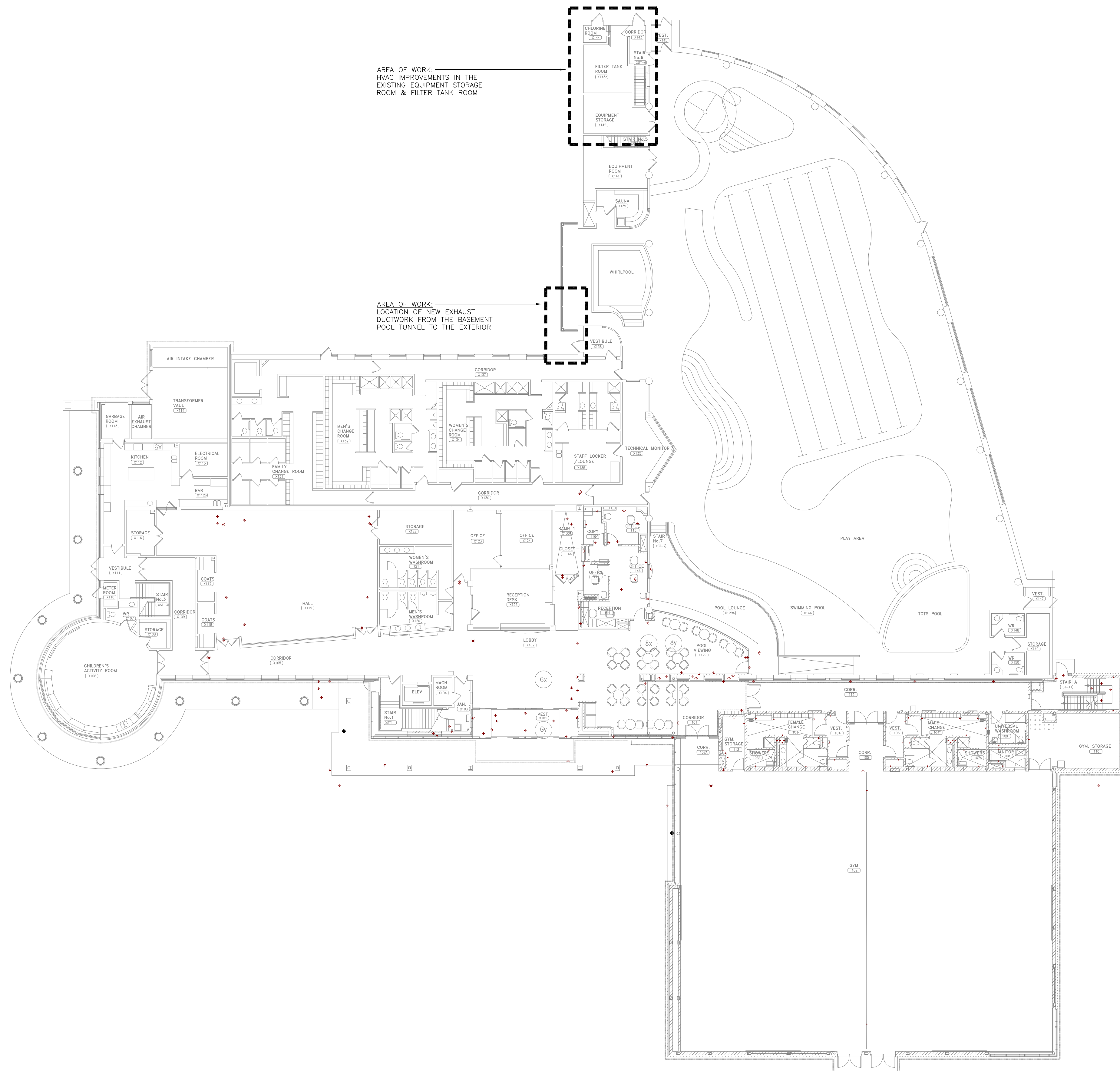
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MECHANICAL
LIGHTING
COMMUNICATION
SECURITY



Project
 BIRCHMOUNT COMMUNITY CENTRE
 93 BIRCHMOUNT ROAD,
 TORONTO, ONTARIO. M1N 3J7
 POOL HVAC IMPROVEMENTS

Drawing Title
 BASEMENT LEVEL KEY PLAN

Checked:	RS	Date:	MAY 2024
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File Number:		Dwg Number:	M2



AREA OF WORK:
HVAC IMPROVEMENTS IN THE
EXISTING EQUIPMENT STORAGE
ROOM & FILTER TANK ROOM

AREA OF WORK:
LOCATION OF NEW EXHAUST
DUCTWORK FROM THE BASEMENT
POOL TUNNEL TO THE EXTERIOR

GENERAL NOTES :
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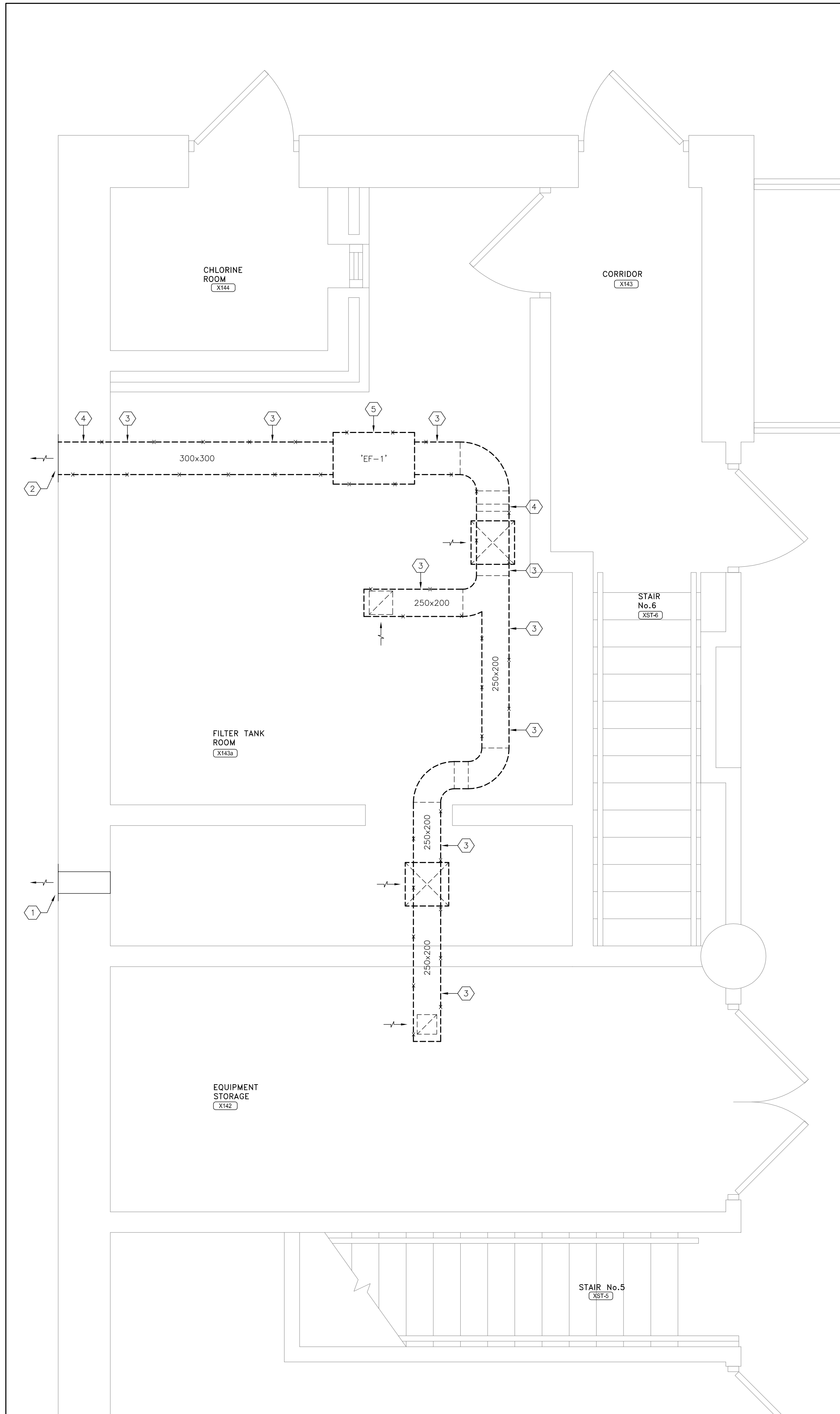
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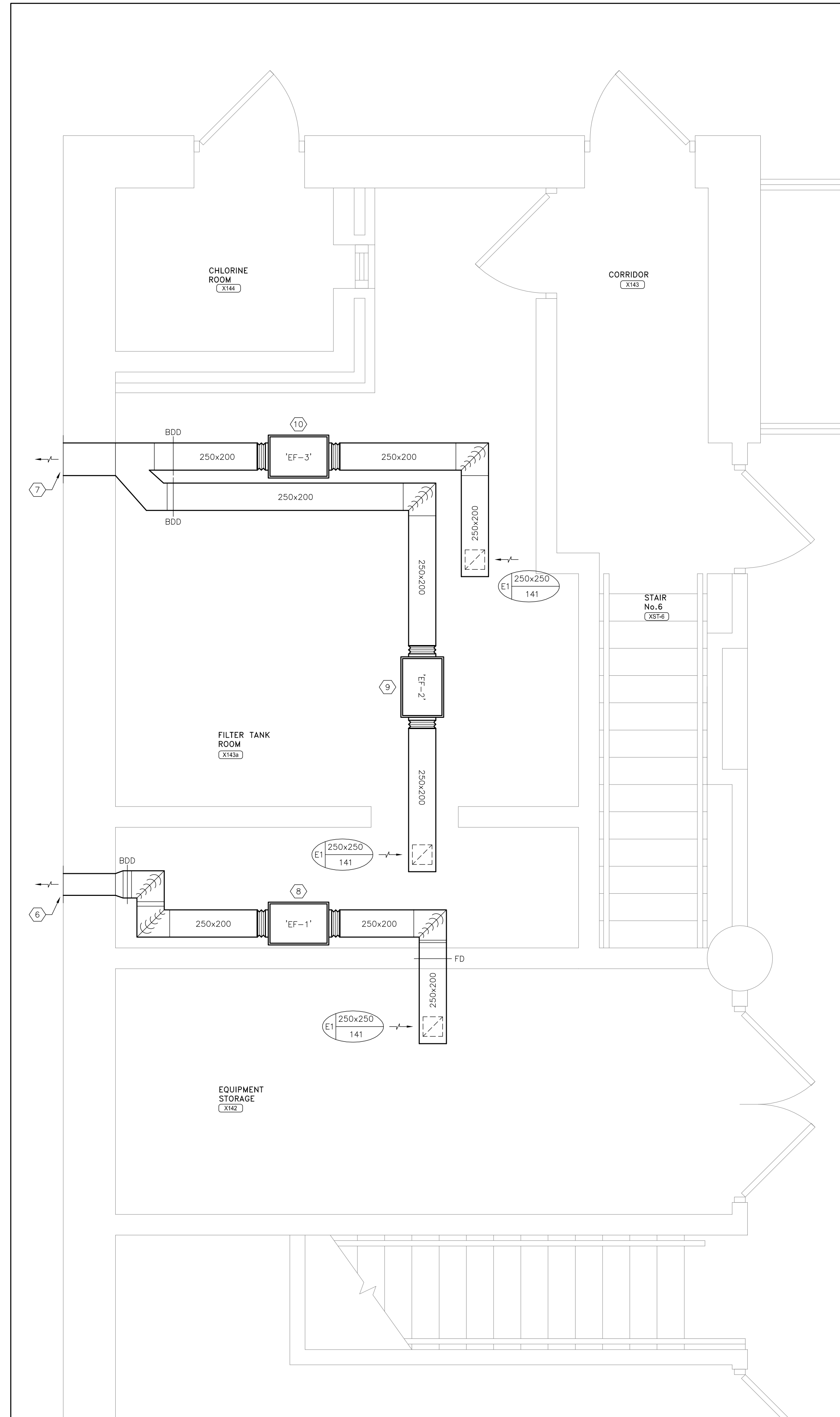
Project
BIRCHMOUNT COMMUNITY
CENTRE
93 BIRCHMOUNT ROAD,
TORONTO, ONTARIO. M1N 3J7
POOL HVAC IMPROVEMENTS

Drawing Title
FIRST FLOOR KEY PLAN

Checked:	RS	Date:	MAY 2024
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File Number:		Dwg Number:	M3



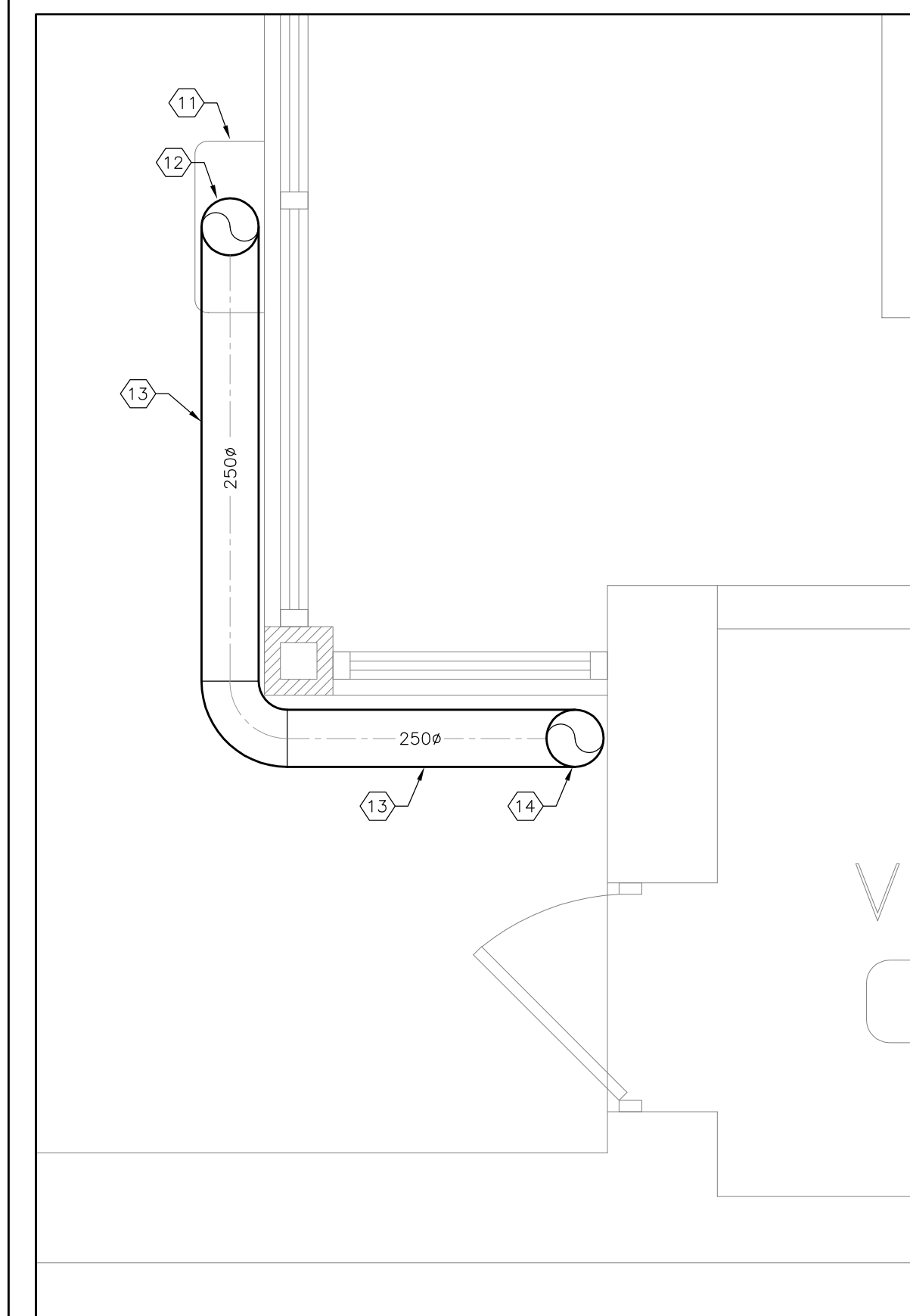
1 FIRST FLOOR PART PLAN – EXISTING HVAC PLAN
M4 SCALE: 1:25



2 FIRST FLOOR PART PLAN – NEW HVAC PLAN
M4 SCALE: 1:25

DRAWING NOTES:

- ① EXISTING 300x200 EXTERIOR LOUVER AND WALL OPENING TO REMAIN. INFILL AND SEAL THE OVERSIZED BLOCK (MASONRY) OPENING TO SUIT THE NEW DUCT.
- ② EXISTING 300x300 EXTERIOR LOUVER AND WALL OPENING TO REMAIN. INFILL AND SEAL THE OVERSIZED BLOCK (MASONRY) OPENING TO SUIT THE NEW DUCT.
- ③ DEMOLISH ALL EXISTING EXHAUST DUCTWORK PRESENT WITHIN THE AREAS. REMOVE ALL DUCT SUPPORTS. PATCH AND MAKE GOOD ALL SURFACES.
- ④ REMOVE THE EXISTING IN-DUCT FILTER BANK.
- ⑤ REMOVE THE EXISTING IN-LINE CEILING-HUNG EXHAUST FAN 'EF-1' IN ENTIRETY. REMOVE THE EXISTING FAN SUPPORTS. REMOVE ALL ELECTRICAL AND CONTROLS IN ENTIRETY.
- ⑥ EXISTING 300x200 EXTERIOR LOUVER AND WALL OPENING TO REMAIN. INFILL, PAINT AND SEAL THE OVERSIZED BLOCK (MASONRY) OPENING TO SUIT THE NEW DUCT. CONNECT THE NEW DUCT TO THE EXISTING LOUVER.
- ⑦ EXISTING 300x300 EXTERIOR LOUVER AND WALL OPENING TO REMAIN. INFILL, PAINT AND SEAL THE OVERSIZED BLOCK (MASONRY) OPENING TO SUIT THE NEW DUCT. CONNECT THE NEW DUCT TO THE EXISTING LOUVER.
- ⑧ PROVIDE A NEW IN-LINE CEILING-HUNG EXHAUST FAN 'EF-1' AS SCHEDULED. ALL DUCTWORK SHALL BE OF RIGID ALUMINUM TYPE, EXCEPT FOR CONNECTIONS TO THE FAN THAT SHALL BE OF FLEXIBLE CONNECTIONS. EXTERNALLY INSULATE ALL DUCTWORK. EXTERNALLY JACKET (WITH ALUMINUM JACKETING) THE FULL LENGTH OF EXHAUST DUCTWORK. CONNECT THE DUCTWORK TO THE EXISTING LOUVER AS SHOWN. PROVIDE A TYPE 'B' FIRE DAMPER (ALUMINUM CONSTRUCTION) WHERE SHOWN. PROVIDE AN ALUMINUM BACKDRAFT DAMPER WHERE SHOWN. SEE ELECTRICAL DRAWINGS FOR POWER REQUIREMENTS. RUN DUCTWORK AND INSTALL THE FAN AS HIGH AS POSSIBLE. PROVIDE ALL NECESSARY OFFSETS TO SUIT SITE CONDITIONS.
- ⑨ PROVIDE A NEW IN-LINE CEILING-HUNG EXHAUST FAN 'EF-2' AS SCHEDULED. ALL DUCTWORK SHALL BE OF RIGID ALUMINUM TYPE, EXCEPT FOR CONNECTIONS TO THE FAN THAT SHALL BE OF FLEXIBLE CONNECTIONS. EXTERNALLY INSULATE ALL DUCTWORK. EXTERNALLY JACKET (WITH ALUMINUM JACKETING) THE FULL LENGTH OF EXHAUST DUCTWORK. CONNECT THE DUCTWORK TO THE EXISTING LOUVER AS SHOWN. PROVIDE AN ALUMINUM BACKDRAFT DAMPER WHERE SHOWN. SEE ELECTRICAL DRAWINGS FOR POWER REQUIREMENTS. RUN DUCTWORK AND INSTALL THE FAN AS HIGH AS POSSIBLE. PROVIDE ALL NECESSARY OFFSETS TO SUIT SITE CONDITIONS.
- ⑩ PROVIDE A NEW IN-LINE CEILING-HUNG EXHAUST FAN 'EF-3' AS SCHEDULED. ALL DUCTWORK SHALL BE OF RIGID ALUMINUM TYPE, EXCEPT FOR CONNECTIONS TO THE FAN THAT SHALL BE OF FLEXIBLE CONNECTIONS. EXTERNALLY INSULATE ALL DUCTWORK. EXTERNALLY JACKET (WITH ALUMINUM JACKETING) THE FULL LENGTH OF EXHAUST DUCTWORK. CONNECT THE DUCTWORK TO THE EXISTING LOUVER AS SHOWN. PROVIDE AN ALUMINUM BACKDRAFT DAMPER WHERE SHOWN. SEE ELECTRICAL DRAWINGS FOR POWER REQUIREMENTS. RUN DUCTWORK AND INSTALL THE FAN AS HIGH AS POSSIBLE. PROVIDE ALL NECESSARY OFFSETS TO SUIT SITE CONDITIONS.
- ⑪ EXISTING METAL GRATING COVER. CUT A HOLE THROUGH THE GRATING SUITABLE FOR THE NEW 250ø EXHAUST DUCT UP FROM THE BASEMENT THROUGH THE GRATING.
- ⑫ NEW 250ø EXHAUST DUCT THROUGH THE EXISTING LOUVER IN THE 'WINDOW WELL' AND UP THE WINDOW WELL. RUN DUCT UP TO 900mm ABOVE FINISHED GRADE AND RUN HORIZONTALLY. PROVIDE A PAINTED (TO MATCH THE WALL COLOUR) GALVANIZED COVER AROUND ALL DUCTWORK RUN ON THE EXTERIOR OF THE BUILDING TO CONCEAL IT.
- ⑬ NEW 250ø EXHAUST DUCT RUN AT AN ELEVATION OF 900mm ABOVE FINISHED GRADE AND RUN HORIZONTALLY AROUND THE BUILDING. PROVIDE A PAINTED (TO MATCH THE WALL COLOUR) GALVANIZED COVER AROUND ALL DUCTWORK RUN ON THE EXTERIOR OF THE BUILDING TO CONCEAL IT.
- ⑭ NEW 250ø EXHAUST DUCT UP THE WALL UP TO THE ROOF LEVEL. RUN THE DUCT TO 600mm ABOVE THE ROOF LEVEL AND TERMINATE AS A GOOSENECK WITH INSECT SCREEN.



3 FIRST FLOOR PART PLAN – NEW EXHAUST DUCT PLAN
M4 SCALE: 1:25

GENERAL NOTES :

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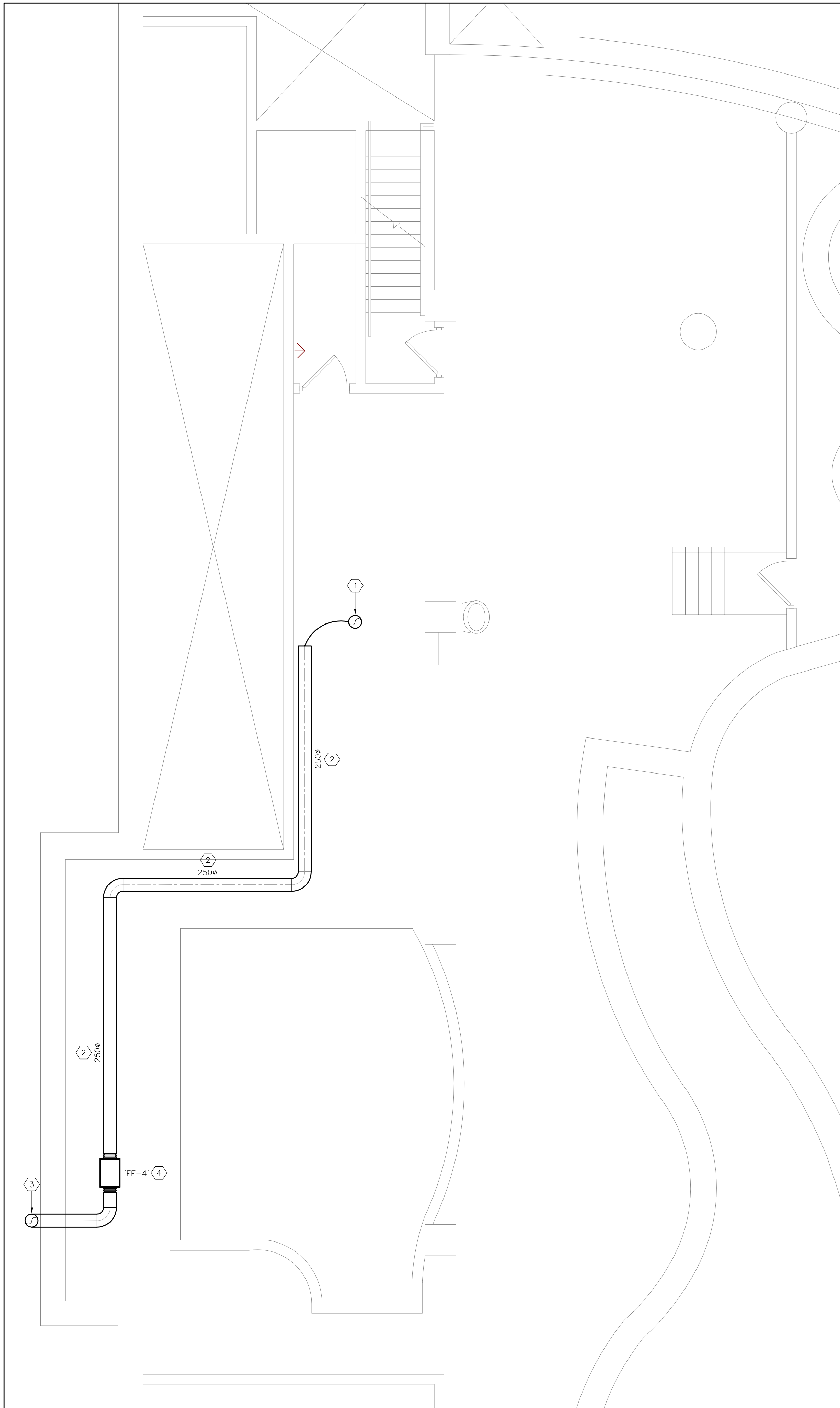
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Project
BIRCHMOUNT COMMUNITY
CENTRE
93 BIRCHMOUNT ROAD,
TORONTO, ONTARIO. M1N 3J7
POOL HVAC IMPROVEMENTS

Drawing Title
FIRST FLOOR – EXISTING &
NEW MECHANICAL LAYOUTS

Checked:	RS	Date:	MAY 2024
Drawn:	RS	Scale:	AS NOTED
File Number:		Dwg Number:	M4



DRAWING NOTES:

- ① PROVIDE NEW 10" RIGID DUCT DN. FROM THE CEILING HEIGHT DOWN TO A HEIGHT OF 6' AFF. PROVIDE FLANGED CONNECTION FOR THE NEW EXTRACTION ARM. PROVIDE A NEW EXTRACTION ARM. EXTRACTION ARM SHALL BE NEDERMAN "EXTRACTION ARM ORIGINAL", 2.0 METERS IN LENGTH, MODEL: 10557835, WHITE COLOUR. EXTRACTION ARM SHALL COME C/W WALL BRACKET, HOOD TO HOSE ADAPTOR, SPARK FILTER AND ALUMINUM HOOD WITH DAMPER. PROVIDE A UNISTRUT ASSEMBLY (PAINTED) TO SUPPORT THE DUCTWORK AND EXTRACTION ARM. BALANCE EACH ARM TO 300 CFM. VERIFY EXACT LOCATIONS FOR EACH EXTRACTION ARM WITH THE USER GROUP PRIOR TO DUCTWORK FABRICATION AND INSTALLATION.
- ② NEW EXTERNALLY INSULATED AND JACKETED 250# ALUMINUM EXHAUST DUCTWORK THROUGH THE POOL TUNNEL. PROVIDE ALL NECESSARY OFFSETS TO SUIT SITE CONDITIONS AND ROUTING AROUND EXISTING ELEMENTS. SUPPORT ALL DUCTWORK FROM THE STRUCTURE.
- ③ NEW 250# EXHAUST DUCT THROUGH THE EXISTING LOUVER IN THE "WINDOW WELL" AND UP THE WINDOW WELL. RUN DUCT UP TO 900mm ABOVE FINISHED GRADE AND RUN HORIZONTALLY.
- ④ PROVIDE A NEW IN-LINE CEILING-HUNG EXHAUST FAN "EF-4" AS SCHEDULED. ALL DUCTWORK SHALL BE OF RIGID ALUMINUM TYPE, EXCEPT FOR CONNECTIONS TO THE FAN THAT SHALL BE OF FLEXIBLE CONNECTIONS. EXTERNALLY INSULATE ALL DUCTWORK. EXTERNALLY JACKET (WITH ALUMINUM JACKETING) THE FULL LENGTH OF EXHAUST DUCTWORK. SEE ELECTRICAL DRAWINGS FOR POWER REQUIREMENTS. RUN DUCTWORK AND INSTALL THE FAN AS HIGH AS POSSIBLE. PROVIDE ALL NECESSARY OFFSETS TO SUIT SITE CONDITIONS.

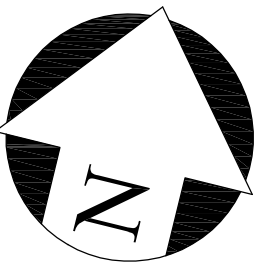

1 BASEMENT PART PLAN - NEW HVAC PLAN
M5 SCALE: 1:50

GENERAL NOTES :

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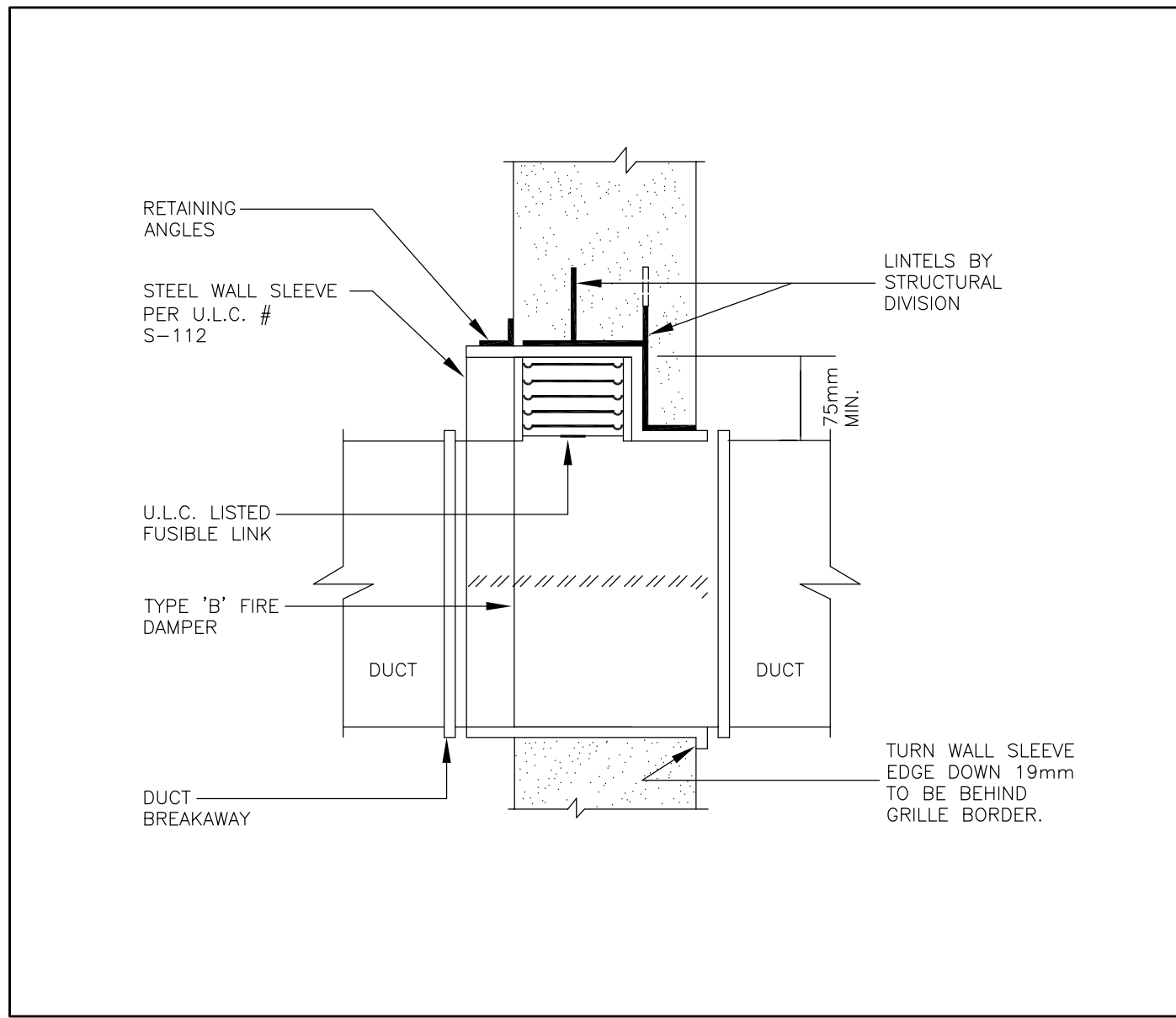
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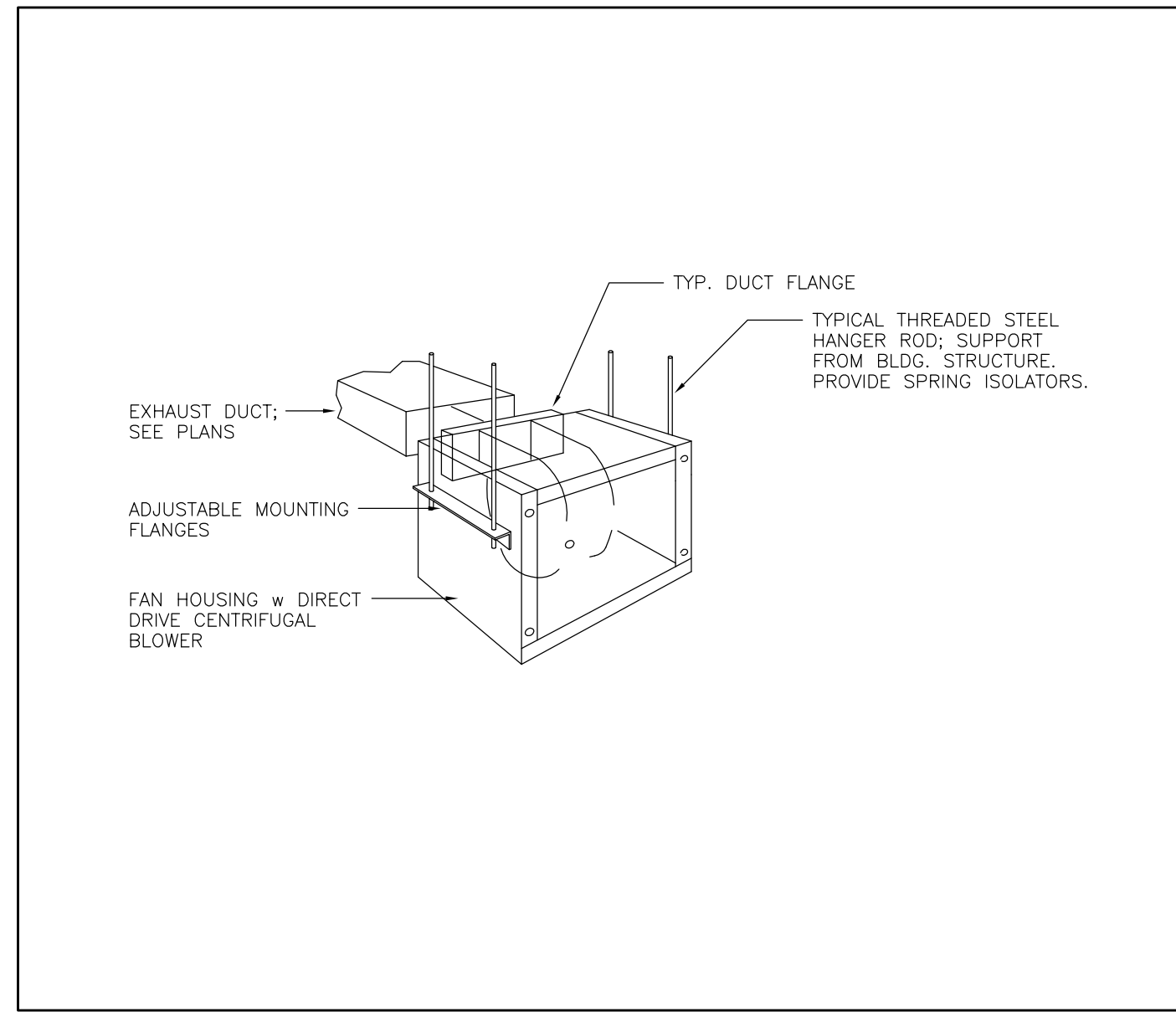
Project
BIRCHMOUNT COMMUNITY
CENTRE
93 BIRCHMOUNT ROAD,
TORONTO, ONTARIO. M1N 3J7
POOL HVAC IMPROVEMENTS

Drawing Title
BASEMENT - EXISTING & NEW
MECHANICAL LAYOUTS

Checked: RS	Date: MAY 2024
Drawn: RS	Scale: AS NOTED
File Number:	Dwg Number: M5



1 TYPE 'B' FIRE DAMPER INSTALLATION DETAIL
M6 SCALE: N.T.S.



2 CEILING FAN INSTALLATION DETAIL
M6 SCALE: N.T.S.

EXHAUST FAN SCHEDULE											
EQUIPMENT DESIGNATION	MANUFACTURER	MODEL NO.	SERVICE	FAN TYPE	AIRFLOW (L/S)	ESP (Pa)	UNIT SIZE (WxLxH) mm	UNIT WEIGHT (KG)	CONTROLLED BY	VOLTAGE MOCP	NOTES
EF-1	COOK	GN-542	EQUIPMENT STORAGE ROOM [X142]	IN-LINE EXHAUST FAN	141	93.3	-	-	LOCAL CONTROL ONLY BY THE STARTER ONLY	120V/1ø/60 15A	<ul style="list-style-type: none"> C/W VIBRATION ISOLATION KIT AND SUSPENSION KIT; SUPPORT FROM THE BUILDING STRUCTURE C/W DUCT BLOWER FILTER C/W CORROSION RESISTANT CONSTRUCTION, SUITABLE FOR POOL ENVIRONMENT. C/W LOCAL DISCONNECT SWITCH
EF-2	COOK	GN-542	FILTER TANK ROOM [X143g]	IN-LINE EXHAUST FAN	141	93.3	-	-	LOCAL CONTROL ONLY BY THE STARTER ONLY	120V/1ø/60 15A	<ul style="list-style-type: none"> C/W VIBRATION ISOLATION KIT AND SUSPENSION KIT; SUPPORT FROM THE BUILDING STRUCTURE C/W DUCT BLOWER FILTER C/W CORROSION RESISTANT CONSTRUCTION, SUITABLE FOR POOL ENVIRONMENT. C/W LOCAL DISCONNECT SWITCH
EF-3	COOK	GN-542	FILTER TANK ROOM [X143g]	IN-LINE EXHAUST FAN	141	93.3	-	-	LOCAL CONTROL ONLY BY THE STARTER ONLY	120V/1ø/60 15A	<ul style="list-style-type: none"> C/W VIBRATION ISOLATION KIT AND SUSPENSION KIT; SUPPORT FROM THE BUILDING STRUCTURE C/W DUCT BLOWER FILTER C/W CORROSION RESISTANT CONSTRUCTION, SUITABLE FOR POOL ENVIRONMENT. C/W LOCAL DISCONNECT SWITCH
EF-4	COOK	GN-542	POOL TUNNEL	IN-LINE EXHAUST FAN	141	124.4	-	-	LOCAL CONTROL ONLY BY THE STARTER ONLY	120V/1ø/60 15A	<ul style="list-style-type: none"> C/W VIBRATION ISOLATION KIT AND SUSPENSION KIT; SUPPORT FROM THE BUILDING STRUCTURE C/W DUCT BLOWER FILTER C/W CORROSION RESISTANT CONSTRUCTION, SUITABLE FOR POOL ENVIRONMENT. C/W LOCAL DISCONNECT SWITCH

DIFFUSER, GRILLES AND LOUVER SCHEDULE									
DESIGNATION	MANUFACTURER	MODEL NO.	TYPE	SIZE	NECK SIZE	COLOUR/FINISH	FIRE RATED	VOLUME CONTROL	NOTES
'S1'	EH PRICE	610-B12	SUPPLY AIR GRILLE	SEE DRAWING	-	WHITE (B12)	NO	YES	SEE NOTES 1, 2 BELOW; SUITABLE FOR DUCT MOUNTING; COMPLETE ALUMINUM CONSTRUCTION, INCLUDING FRAME
'E1'	EH PRICE	80-B12	EXHAUST AIR GRILLE	SEE DRAWING	-	WHITE (B12)	NO	YES	SEE NOTES 1, 2 BELOW; SUITABLE FOR DUCT MOUNTING; COMPLETE ALUMINUM CONSTRUCTION, INCLUDING FRAME

NOTES:
1. SUBMIT SHOP DRAWINGS FOR ALL DIFFUSERS, GRILLES AND LOUVERS PRIOR TO ORDERING.
2. PROVIDE A PHYSICAL COLOUR CHIP TO THE ARCHITECT DURING SHOP DRAWING SUBMISSION FOR APPROVAL PRIOR TO ORDERING.

GENERAL NOTES :

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

1	ISSUED FOR TENDER	JUN. 10/24
No.	REVISION	DATE

Contractors shall verify all dimensions at the job.

SAL Project No.: 24-104

Mechanical & Electrical Consultant:
SURI & ASSOCIATES LTD.
ENGINEERING CONSULTANTS

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MISSISSAUGA, ONTARIO L5H 3C7
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ELECTRICAL MECHANICAL LIGHTING COMMUNICATION SECURITY



Project
BIRCHMOUNT COMMUNITY CENTRE
93 BIRCHMOUNT ROAD,
TORONTO, ONTARIO. M1N 3J7
POOL HVAC IMPROVEMENTS

Drawing Title
SCHEDULES & SCHEMATICS

Checked: RS	Date: MAY 2024
Drawn: RS	Scale: AS NOTED
File Number:	Dwg Number: M6



1 FIRST FLOOR SITE PHOTOS
M7 SCALE: N.T.S.



2 FIRST FLOOR SITE PHOTOS
M7 SCALE: N.T.S.



3 FIRST FLOOR SITE PHOTOS
M7 SCALE: N.T.S.



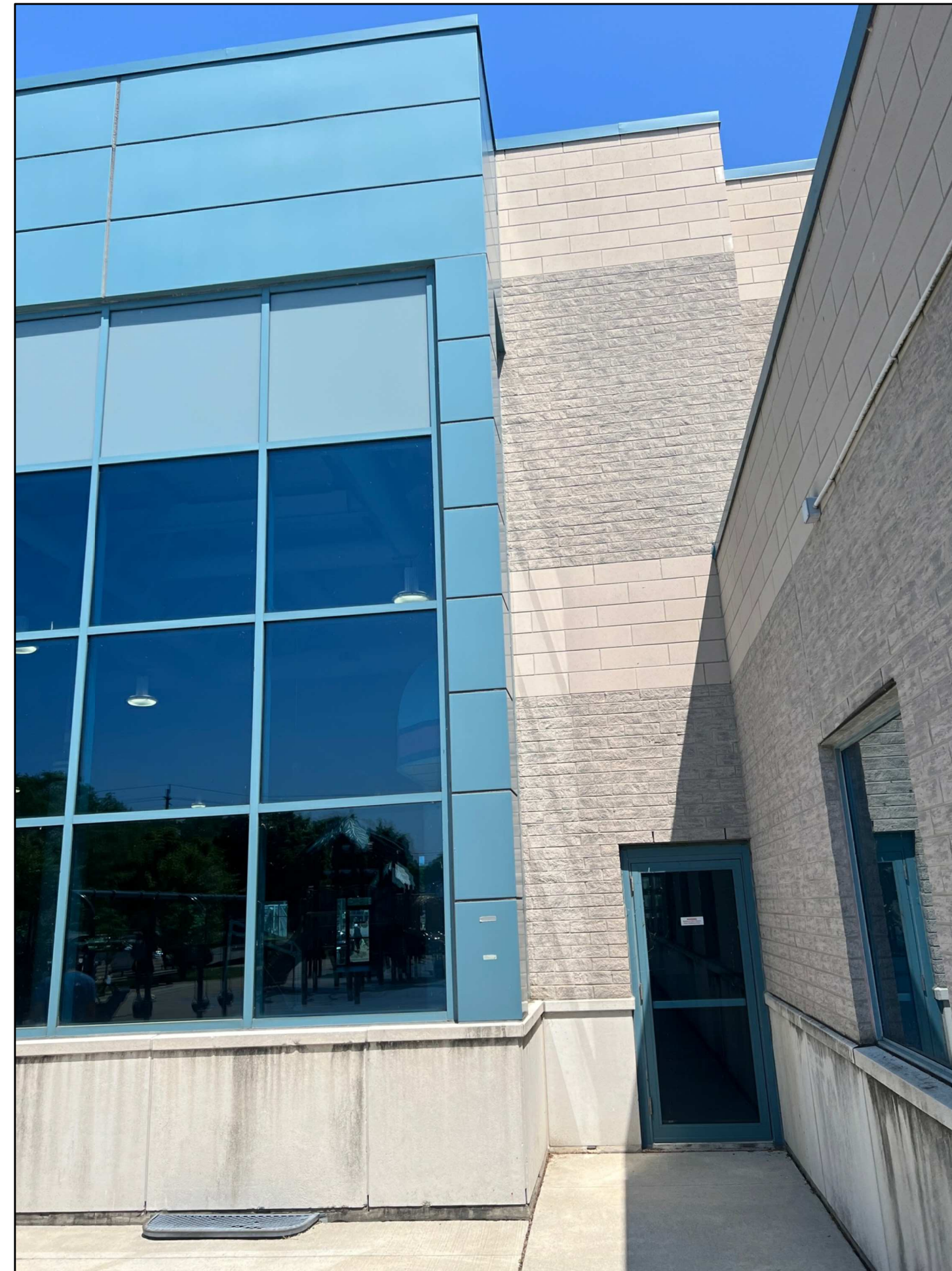
4 FIRST FLOOR SITE PHOTOS
M7 SCALE: N.T.S.



5 FIRST FLOOR SITE PHOTOS
M7 SCALE: N.T.S.



6 EXTERIOR SITE PHOTOS
M7 SCALE: N.T.S.



7 EXTERIOR SITE PHOTOS
M7 SCALE: N.T.S.



8 EXTERIOR SITE PHOTOS
M7 SCALE: N.T.S.

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ELECTRICAL
MECHANICAL
LIGHTING
COMMUNICATION
SECURITY



Project
BIRCHMOUNT COMMUNITY
CENTRE
93 BIRCHMOUNT ROAD,
TORONTO, ONTARIO. M1N 3J7
POOL HVAC IMPROVEMENTS

Drawing Title
SITE PHOTOS

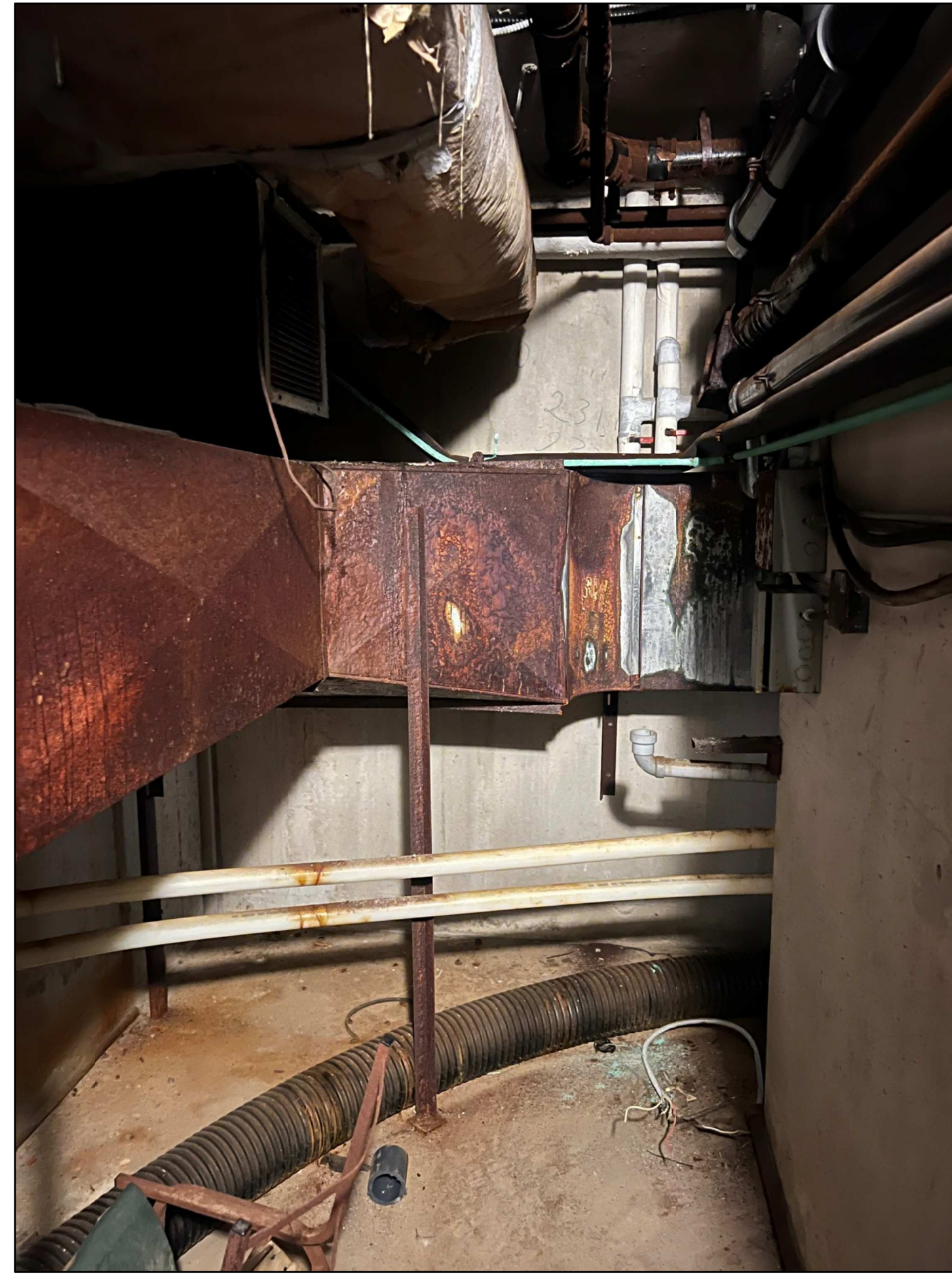
Checked:	RS	Date:	MAY 2024
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File Number:		Dwg Number:	M7



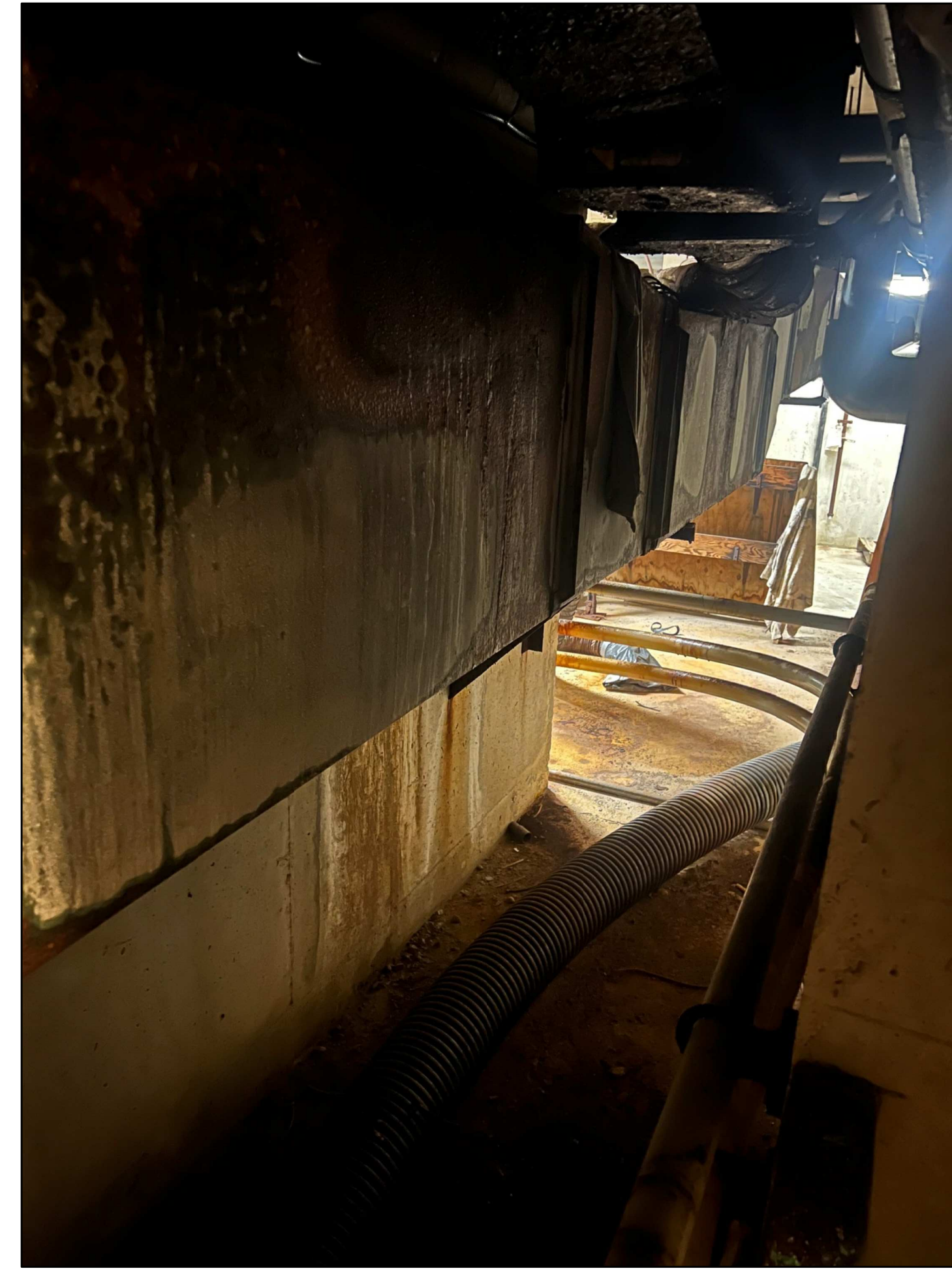
1 BASEMENT POOL TUNNEL SITE PHOTOS
M8 SCALE: N.T.S.



2 BASEMENT POOL TUNNEL SITE PHOTOS
M8 SCALE: N.T.S.



3 BASEMENT POOL TUNNEL SITE PHOTOS
M8 SCALE: N.T.S.



4 BASEMENT POOL TUNNEL SITE PHOTOS
M8 SCALE: N.T.S.



5 BASEMENT POOL TUNNEL SITE PHOTOS
M8 SCALE: N.T.S.



6 BASEMENT POOL TUNNEL SITE PHOTOS
M8 SCALE: N.T.S.



7 BASEMENT POOL TUNNEL SITE PHOTOS
M8 SCALE: N.T.S.



8 BASEMENT POOL TUNNEL SITE PHOTOS
M8 SCALE: N.T.S.

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ELECTRICAL
MECHANICAL
LIGHTING
COMMUNICATION
SECURITY



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BIRCHMOUNT COMMUNITY
CENTRE
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TORONTO, ONTARIO. M1N 3J7
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Drawing Title
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LIGHTING LEGEND	
	STANDARD TYPE 'A1' LIGHT FIXTURE AS SCHEDULED
	TYPE 'A1' LIGHT FIXTURE AS SCHEDULED, CONNECTED TO THE EMERGENCY POWER SOURCE (INVERTER OR GENERATOR)
	WALL-MOUNTED TYPE 'B1' LIGHT FIXTURE AS SCHEDULED
	LINE-VOLTAGE, TOGGLE LIGHT SWITCH.
	LOW-VOLTAGE, TOGGLE & DIMMER LIGHT SWITCH, AS SPECIFIED.
	LOW-VOLTAGE, KEY-SWITCH TYPE LIGHT SWITCH, AS SPECIFIED.
	LOW-VOLTAGE, KEY-SWITCH TYPE, MASTER LIGHT SWITCH, AS SPECIFIED. CONTROLS ALL CORRIDOR, WASHROOM AND VESTIBULE LIGHTING
	LOW-VOLTAGE LIGHT SWITCH COMPLETE WITH INTEGRAL OCCUPANCY SENSOR, AS SPECIFIED.
	CORNER/WALL-MOUNTED, LOW-VOLTAGE OCCUPANCY SENSOR, AS SCHEDULED
	CEILING-MOUNTED, LOW-VOLTAGE OCCUPANCY SENSOR, AS SCHEDULED
	EXTERIOR-GRADE, WALL-MOUNTED LIGHT FIXTURE
	EXTERIOR-GRADE, LIGHT STANDARD COMPLETE WITH CONCRETE BASE
	EMERGENCY LIGHTING BATTERY UNIT C/W NO REMOTE HEADS
	EMERGENCY LIGHTING BATTERY UNIT C/W DUAL-HEAD REMOTE HEADS
	EMERGENCY LIGHTING DUAL-HEAD REMOTE HEAD
	EMERGENCY LIGHTING, WALL-MOUNTED EXIT SIGN
	EMERGENCY LIGHTING, CEILING-MOUNTED EXIT SIGN

POWER DEVICES & EQUIPMENT LEGEND	
	SINGLE RECEPTACLE MOUNTED AT STANDARD HEIGHT; USE AND RATING FOR THE PURPOSE INTENDED.
	SINGLE RECEPTACLE MOUNTED AT HIGH LEVEL; USE AND RATING FOR THE PURPOSE INTENDED
	15A, 120V DUPLEX RECEPTACLE MOUNTED AT STANDARD HEIGHT. 'T' DENOTES 20A, T-SLOT TYPE RECEPTACLE
	15A, 120V DUPLEX RECEPTACLE MOUNTED AT HIGH LEVEL. 'T' DENOTES 20A, T-SLOT TYPE RECEPTACLE
	15A, 120V, GFI DUPLEX RECEPTACLE MOUNTED AT HIGH LEVEL. 'T' DENOTES 20A, T-SLOT TYPE RECEPTACLE
	DIRECT POWER CONNECTION
	UNFUSED DISCONNECT SWITCH
	FUSED DISCONNECT SWITCH
	DIRECT POWER CONNECTION COMPLETE UNFUSED DISCONNECT SWITCH
	BLANK COVERPLATE COMPLETE WITH WIRING, CONDUIT, AND BACKBOX
	ROUND JUNCTION BOX COMPLETE WITH COVERPLATE
	SQUARE JUNCTION BOX COMPLETE WITH COVERPLATE
	RECESSED ELECTRICAL PANEL, AS SCHEDULED
	SURFACE-MOUNTED ELECTRICAL PANEL, AS SCHEDULED
CC-1	DEVICE/EQUIPMENT CONNECTED TO CIRCUIT #1 IN PANEL 'CC'

COMMUNICATIONS (VOICE/DATA) LEGEND	
	DATA OUTLET MOUNTED AT STANDARD HEIGHT ROUGH-IN
	TELEPHONE OUTLET MOUNTED AT STANDARD HEIGHT ROUGH-IN
	DATA OUTLET MOUNTED AT HIGH LEVEL ROUGH-IN
	TELEPHONE OUTLET MOUNTED AT HIGH LEVEL ROUGH-IN
	WIRELESS ACCESS POINT COMPLETE WITH CATEGORY 6, FT6 CABLING TO THE HUB RACK
	TELEPHONE & DATA OUTLET

DRAWING LIST	
DRAWING NUMBER	DESCRIPTION
E1	ELECTRICAL LEGEND, NOTES AND SCHEDULE
E2	BASEMENT LEVEL KEY PLAN
E3	FIRST FLOOR KEY PLAN
E4	BASEMENT - NEW ELECTRICAL LAYOUT
E5	FIRST FLOOR - EXISTING & NEW ELECTRICAL LAYOUTS

SYSTEMS DEVICE & EQUIPMENT LEGEND	
	MODULAR CONTROL PANEL, SUPPLIED AND INSTALLED BY DIVISION 26
	DOOR OPERATOR ACTUATOR BUTTON
	KEY SWITCH, TIED TO THE DOOR OPERATOR SYSTEM
	HAND DRYER, SUPPLIED AND INSTALLED BY DIVISION 26
	PUSH-TO-LOCK BUTTON TIED TO THE WASHROOM DOOR OPERATOR SYSTEM
	'OCCUPIED-WHEN-LIT' LED ANNUNCIATOR TIED TO THE WASHROOM DOOR OPERATOR SYSTEM
	VISUAL INDICATOR TIED TO THE CALL-FOR-ASSISTANCE SYSTEM
	EMERGENCY PUSH-BUTTON TIED TO THE CALL-FOR-ASSISTANCE SYSTEM
	AUDIBLE/VISUAL INDICATOR

FIRE ALARM SYSTEM LEGEND	
	RATE-OF-RISE HEAT DETECTOR
	FIXED TEMPERATURE HEAT DETECTOR
	SMOKE DETECTOR
	PULL STATION C/W TAMPERPROOF, POLYCARBONATE COVER
	FIRE ALARM BELL
	FIRE ALARM HORN/STROBE
	FIRE ALARM SPEAKER
	REMOTE TROUBLE INDICATOR
	SPRINKLER/STANDPIPE FLOW SWITCH
	SPRINKLER/STANDPIPE SUPERVISED VALVE
	FIRE ALARM ANNUNCIATOR
	FIRE ALARM CONTROL PANEL

ACCESS CONTROL SYSTEM LEGEND	
	DOOR BELL
	ELECTRIC STRIKE
	ALPHONE MASTER STATION
	ALPHONE SUB-MASTER STATION
	ALARM KEYPAD
	DOOR BELL CHIME
	AUDIBLE/VISUAL ANNUNCIATOR TIED TO THE LOCAL DOOR ALARM SYSTEM

SECURITY SYSTEM LEGEND	
	MOTION DETECTOR
	INTRUSION ALARM SYSTEM KEY PAD
	CAMERA
	ELECTRIC STRIKE

CLOCK SYSTEM LEGEND	
	ANALOG CLOCK, 120V PLUG-IN TYPE COMPLETE WITH SINGLE RECEPTACLE - WALL-MOUNTED
	ANALOG CLOCK, 120V PLUG-IN TYPE COMPLETE WITH SINGLE RECEPTACLE - WALL-MOUNTED
	ANALOG CLOCK TIED TO THE MASTER CLOCK SYSTEM - WALL-MOUNTED
	DUAL-FACE ANALOG CLOCK TIED TO THE MASTER CLOCK SYSTEM - WALL-MOUNTED
	ANALOG CLOCK, BATTERY OPERATED - WALL-MOUNTED
	DUAL-FACE ANALOG CLOCK, BATTERY OPERATED - WALL-MOUNTED
	MASTER CLOCK SYSTEM CONTROLLER

AUDIO/VISUAL SYSTEM LEGEND	
	EMPTY BACKBOX COMPLETE WITH BLANK COVERPLATE AND 25mmC UP TO THE ACCESSIBLE CEILING SPACE PROVISION FOR FUTURE AV CABLING

GENERAL	
WG	DENOTES DEVICE/EQUIPMENT EQUIPPED WITH A WIREGUARD
N	DENOTES NEW DEVICE/EQUIPMENT C/W NEW WIRING AND NEW RACEWAYS
R	DENOTES DEVICE/EQUIPMENT TO BE REMOVED C/W ALL REDUNDANT WIRING/RACEWAYS
ER	DENOTES DEVICE/EQUIPMENT TO BE RELOCATED
RE	DENOTES RELOCATED POSITION OF AN EXISTING DEVICE/EQUIPMENT
RP	DENOTES EXISTING DEVICE/EQUIPMENT TO BE REPLACED WITH NEW

ACRONYM LEGEND	
ACRONYM	DESCRIPTION
AFF	ABOVE FINISHED FLOOR
CTE	CONNECT TO EXISTING
ER	DENOTES EXISTING DEVICE OR EQUIPMENT TO BE RELOCATED
EX	DENOTE EXISTING DEVICE OR EQUIPMENT TO REMAIN
GFI	DENOTE DEVICE OR EQUIPMENT WITH GFI PROTECTION
HL	DENOTES DEVICE OR EQUIPMENT AT HIGH LEVEL
LV	LOW VOLTAGE
N	DENOTES NEW DEVICE OR EQUIPMENT
NL	DENOTES NIGHT LIGHT FIXTURE
R	DENOTES EXISTING DEVICE OR EQUIPMENT TO BE REMOVED
RE	DENOTES RELOCATED POSITION OF AN EXISTING DEVICE OR EQUIPMENT
RP	DENOTES EXISTING DEVICE OR EQUIPMENT TO BE REPLACED
RT	DENOTES ROOFTOP DEVICE OR EQUIPMENT
T	T-SLOT, 20A, DEVICE
TP	DENOTES TAMPERPROOF DEVICE OR EQUIPMENT
WG	DENOTES DEVICE OR EQUIPMENT WITH A WIREGUARD
WP	DENOTES WEATHERPROOF TYPE DEVICE OR EQUIPMENT

GENERAL NOTES	
1.	IT IS MANDATORY FOR THE ELECTRICAL CONTRACTOR TO VISIT SITE AND REVIEW EXISTING CONDITIONS AND DEMOLITION SCOPE OF WORK TO SUIT EXISTING ARCHITECTURAL AND STRUCTURAL CONDITIONS AND MECHANICAL DRAWINGS. NO EXTRA WILL SUBSEQUENTLY BE ALLOWED TO COVER ANY SUCH ERROR, OMISSION AND/OR OVERSIGHT FOR NOT HAVING MADE A THOROUGH INSPECTION OF THE GROUNDS, EXISTING CONDITIONS, DRAWINGS, SPECIFICATION AND DESIGN INTENT. THE ELECTRICAL CONTRACTOR SHALL NOTE THAT THE EXISTING BUILDING WILL REMAIN IN OPERATION THROUGHOUT DEMOLITION/CONSTRUCTION. ALLOW FOR ANY WORK REQUIRED TO BE DONE WHICH MAY AFFECT POWER SUPPLY AND OPERATION OF THE BUILDING TO BE CARRIED OUT AFTER HOURS OR AT A TIME CONVENIENT TO THE BUILDING MANAGEMENT. PROVIDE TEMPORARY SERVICES AS REQUIRED TO ENSURE CONTINUED OPERATION AT ALL TIMES.
2.	CAREFULLY EXAMINE OTHER EXISTING UTILITY LINES SUCH AS GAS, WATER ETC. PRIOR TO START THE ELECTRICAL CONSTRUCTION WORKS AND COORDINATE WITH OTHER TRADES AND REPORT OF ANY DISCREPANCY PRIOR TO PROCEEDING.
3.	THESE DRAWINGS SHALL BE READ & PRICED IN CONJUNCTION WITH ARCHITECTURAL, MECHANICAL, AND AV DRAWINGS AND SPECIFICATIONS. INCLUDE FOR THE SUPPLY AND INSTALLATION OF POWER, SYSTEMS, AND LIGHTING AS PER THE COMPLETE CONSTRUCTION DOCUMENTS. NO EXTRA COST WILL BE ACCEPTED IN FAILURE TO OBTAINING AND/OR REVIEW OF SUCH DOCUMENTS. REFER TO ARCHITECTURAL, AV, ELECTRICAL, AND MECHANICAL LAYOUTS IN CONJUNCTION FOR EXACT LOCATION OF ALL EQUIPMENT. REPORT ANY DISCREPANCIES TO THE ELECTRICAL ENGINEER PRIOR TO COMMENCING WORK. NO EXTRA WILL BE PROVIDED AS A RESULT OF A FAILURE TO DO SO.
4.	IT IS MANDATORY THAT ELECTRICAL WORK CONFORM TO ALL APPLICABLE CODES (INCLUDING ONTARIO BUILDING, FIRE, AND ELECTRICAL SAFETY CODE), BASE BUILDING STANDARDS, AND THE STANDARDS SET BY ANY AND ALL LOCAL AUTHORITIES HAVING JURISDICTION.
5.	LOCATIONS OF ALL NEW DISCONNECT SWITCHES AND STARTERS SHALL BE CONFIRMED WITH DIVISION 15 PRIOR TO INSTALLATION. STARTERS FOR EXHAUST FANS SHALL BE SUPPLIED AND INSTALLED BY DIV. 16.
6.	ALL ELECTRICAL WORK SHALL BE INSPECTED BY THE ELECTRICAL SAFETY AUTHORITY (ESA).
7.	CONTRACTOR IS RESPONSIBLE FOR HIRING A FIRE WATCH AS REQUIRED BY CODE, LOCAL AUTHORITIES HAVING JURISDICTION, OR AS MANDATED BY THE PROPERTY MANAGER DURING ANY ALTERATION OR DOWNTIME OF THE FIRE ALARM SYSTEM.
8.	CONTRACTOR MUST REVIEW CITY OF TORONTO STANDARDS AND PRIOR TO PRICING. ALL CONSTRUCTION MUST ABIDE BY CITY OF TORONTO STANDARDS. INCLUDE FOR ANY SUCH ITEMS MANDATED BY THE CITY IN THE TENDER PRICING.

MECHANICAL EQUIPMENT WIRING SCHEDULE										
EQUIPMENT DESCRIPTION	STARTER LOCATION	STARTER TYPE	MCA/HP/KW	VOLTS/PH./FREQUENCY	BREAKER SIZE OR FUSE SIZE	FEEDER SIZE	PANEL AND CCT. NOS.	REMARKS	FIRE ALARM FAN SHUTDOWN [AHU/EF ONLY]	TIED TO BAS SYSTEM?
EXHAUST FAN 'EF-1'	SEE PLAN	MAGNETIC	FRACTIONAL	120V/1PH/60Hz	15A-1P	2#12 RW90+G IN 21mmC	CIRCUIT J-37	ELECTRICAL DIVISION SHALL PROVIDE POWER CONNECTION TO THE AIR HANDLING UNIT. PROVIDE A LOCAL DISCONNECT SWITCH.	NO	NO
EXHAUST FAN 'EF-2'	SEE PLAN	MAGNETIC	FRACTIONAL	120V/1PH/60Hz	15A-1P	2#12 RW90+G IN 21mmC	CIRCUIT J-39	ELECTRICAL DIVISION SHALL PROVIDE POWER CONNECTION TO THE AIR HANDLING UNIT. PROVIDE A LOCAL DISCONNECT SWITCH.	NO	NO
EXHAUST FAN 'EF-3'	SEE PLAN	MAGNETIC	FRACTIONAL	120V/1PH/60Hz	15A-1P	2#12 RW90+G IN 21mmC	CIRCUIT J-41	ELECTRICAL DIVISION SHALL PROVIDE POWER CONNECTION TO THE AIR HANDLING UNIT. PROVIDE A LOCAL DISCONNECT SWITCH.	NO	NO
EXHAUST FAN 'EF-4'	SEE PLAN	MAGNETIC	FRACTIONAL	120V/1PH/60Hz	15A-1P	2#12 RW90+G IN 21mmC	CIRCUIT K-2	ELECTRICAL DIVISION SHALL PROVIDE POWER CONNECTION TO THE AIR HANDLING UNIT. PROVIDE A LOCAL DISCONNECT SWITCH.	NO	NO
<p>1. PROVIDE POWER CONNECTION TO ALL MECHANICAL EQUIPMENT LISTED IN THE SCHEDULE FOR A FULL OPERATIONAL SYSTEM. REFER TO MECHANICAL LAYOUTS AND SCHEDULES FOR EXACT LOCATION OF EQUIPMENT. PROVIDE SEPARATE BREAKER FOR INDIVIDUAL MECHANICAL EQUIPMENT. SIZE AS INDICATED IN THE SCHEDULE.</p> <p>2. ALL LOOSE STARTERS (MANUAL OR MAGNETIC TYPE AS STATED) SHALL BE SUPPLIED AND INSTALLED BY DIVISION 26. STARTER LOCATIONS SHALL BE VERIFIED AND CO-ORDINATED WITH DIVISION 23 AND CONSULTANT ON SITE. INTEGRAL STARTER WILL BE BUILT-IN THE MECHANICAL EQUIPMENT AND SUPPLIED & INSTALLED BY THE EQUIPMENT MANUFACTURER. ACCEPTABLE MANUFACTURER FOR LOOSE STARTERS SHALL BE CUTLER HAMMER, SIEMENS SQUARE D AND KLOCKNER MOELLER. ALL MAGNETIC STARTER SHALL BE C/W OVERLOAD PROTECTION, H/O/A SWITCH AND GREEN-RUN AND RED-STOP PILOT LAMPS. ALL MANUAL STARTERS SHALL BE C/W OVERLOAD PROTECTION AND GREEN-RUN AND RED-STOP PILOT LAMP.</p> <p>3. PROVIDE A LOCAL DISCONNECT SWITCH FOR ALL MECHANICAL EQUIPMENT IN THIS SCHEDULE, UNLESS IT IS NOTED THAT THE DISCONNECT SWITCH IS TO BE PROVIDED BY THE EQUIPMENT MANUFACTURER. DISCONNECT SWITCH SHALL BE SEPARATE FROM THE STARTER SERVING THE RESPECTIVE EQUIPMENT. NOTE THAT DISCONNECT SWITCHES ARE NOT ILLUSTRATED ON THE FLOOR PLAN (FOR CLARITY), HOWEVER MUST BE SUPPLIED AND INSTALLED BY DIVISION 26 FOR ALL MECHANICAL EQUIPMENT LISTED IN THE ABOVE SCHEDULE.</p> <p>4. THE ELECTRICAL CONTRACTOR WILL BE RESPONSIBLE FOR REVIEWING ALL MECHANICAL SHOP DRAWINGS WITH RESPECT TO RELEVANT ELECTRICAL INFORMATION PRIOR TO THE SHOP DRAWINGS BEING SUBMITTED TO THE MECHANICAL AND ELECTRICAL ENGINEER FOR REVIEW. NO EQUIPMENT SHALL BE ORDERED PRIOR TO SUBMITTING SHOP DRAWINGS AND RECEIVING SHOP DRAWINGS BACK APPROVED BY BOTH THE MECHANICAL AND ELECTRICAL ENGINEER. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR WORKING WITH EACH MANUFACTURER OR MECHANICAL EQUIPMENT AND GATHERING THE 'MCA' AND 'MOP' OF ALL EQUIPMENT AND LISTING IT ON THE SHOP DRAWING FOR EACH MECHANICAL EQUIPMENT PRIOR TO SUBMITTING SHOP DRAWINGS FOR REVIEW.</p> <p>5. THE STARTER LOCATION AND TYPE LISTED ABOVE IS FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR SHALL REFER TO MECHANICAL DRAWINGS FOR EXACT EQUIPMENT LOCATIONS AND MANUFACTURER CUT SHEETS AND EQUIPMENT DATA SHEETS FOR STARTER INFORMATION. NO EXTRA WILL BE PERMITTED AS A RESULT OF A FAILURE TO DO SO.</p>										

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ENGINEERING CONSULTANTS

1018 ALBERTSON CRESCENT MISSISSAUGA, ONTARIO L5H 3C7 T (905)-290-7861	ELECTRICAL MECHANICAL LIGHTING COMMUNICATION SECURITY
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Project
BIRCHMOUNT COMMUNITY CENTRE
93 BIRCHMOUNT ROAD,
TORONTO, ONTARIO. M1N 3J7

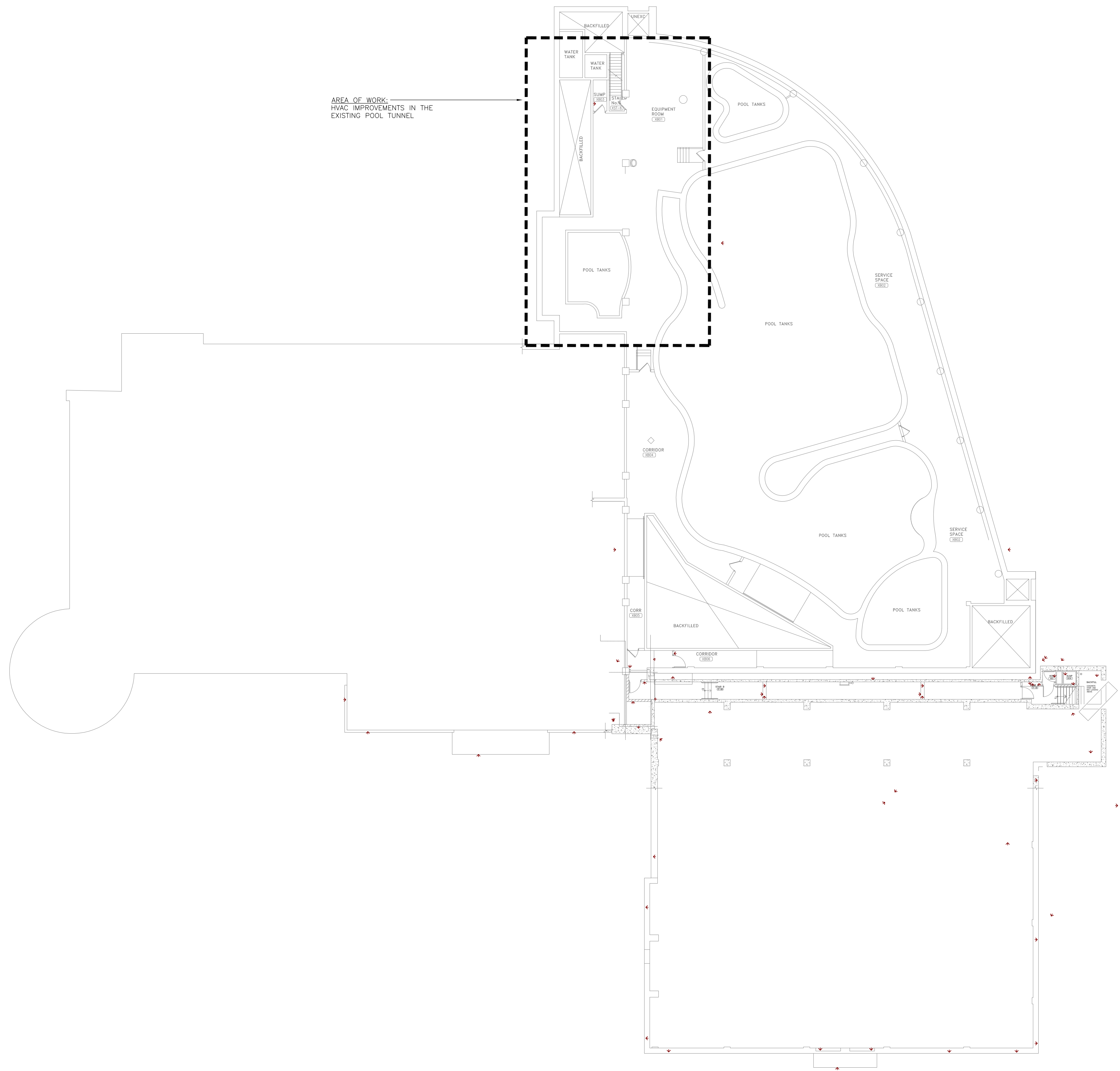
POOL HVAC IMPROVEMENTS

Drawing Title
ELECTRICAL LEGEND, NOTES AND SCHEDULE

Checked: RS	Date: MAY 2024
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File Number:	Dwg Number: E1
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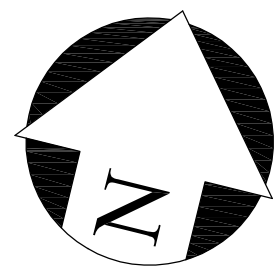


AREA OF WORK:
HVAC IMPROVEMENTS IN THE
EXISTING POOL TUNNEL


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

1	ISSUED FOR TENDER	JUN. 10/24
No.	REVISION	DATE

Contractors shall verify all dimensions at the job.



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S. SURI
JUN. 10/24
PROVINCE OF ONTARIO

SAL Project No.: 24-104

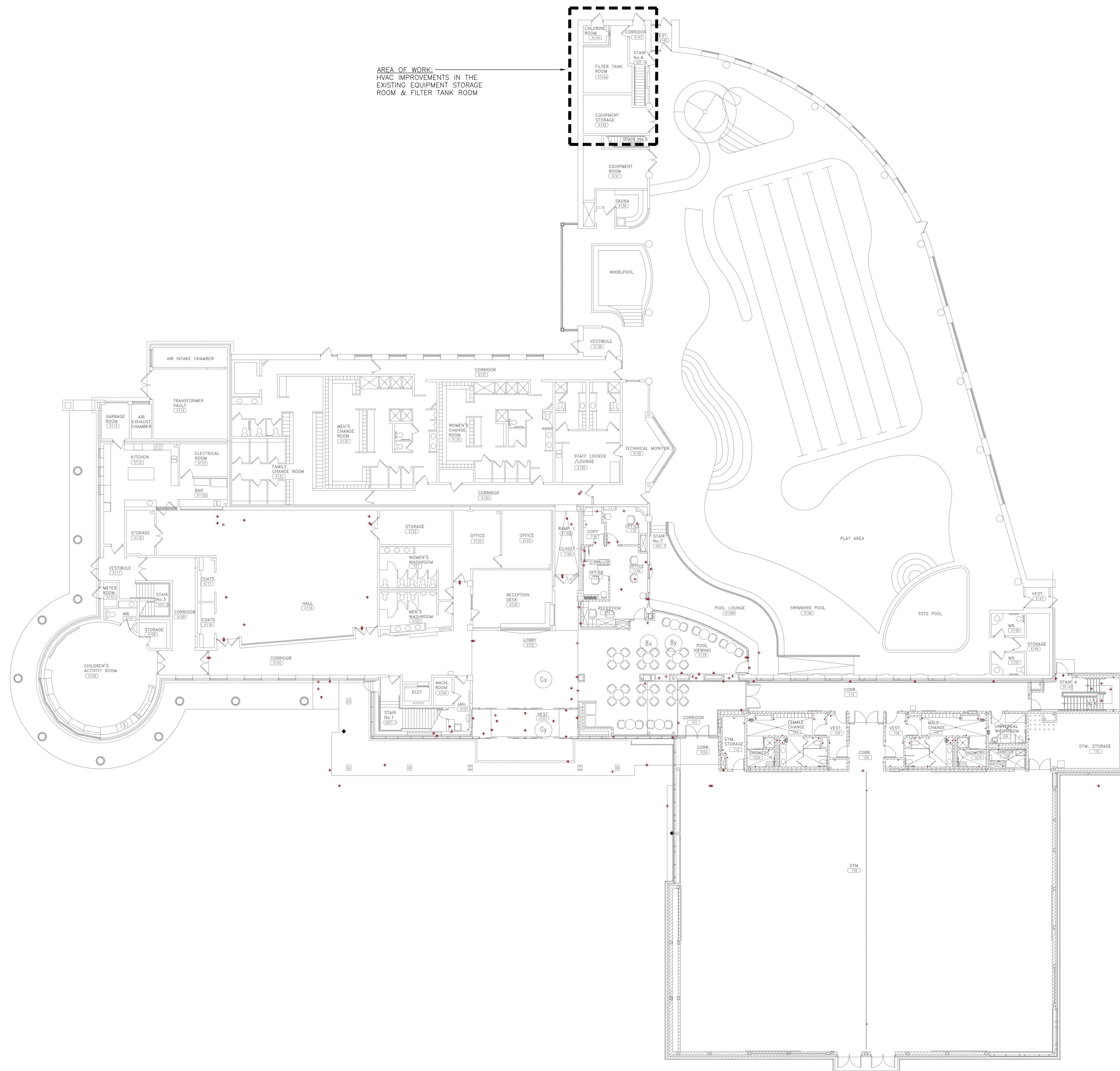
Mechanical & Electrical Consultant:
SURI & ASSOCIATES LTD.
 ENGINEERING CONSULTANTS
 1018 ALBERTSON CRESCENT MISSISSAUGA, ONTARIO L5H 3C7 T (905)-290-7861
 ELECTRICAL MECHANICAL LIGHTING COMMUNICATION SECURITY



Project
 BIRCHMOUNT COMMUNITY CENTRE
 93 BIRCHMOUNT ROAD,
 TORONTO, ONTARIO. M1N 3J7
 POOL HVAC IMPROVEMENTS

Drawing Title
 BASEMENT LEVEL KEY PLAN

Checked: RS	Date: MAY 2024
Drawn: RS	Scale: AS NOTED
File Number:	Dwg Number: E2



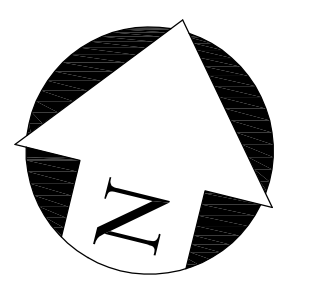
AREA OF WORK:
HVAC IMPROVEMENTS IN THE
EXISTING EQUIPMENT STORAGE
ROOM & FILTER TANK ROOM

GENERAL NOTES :

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

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No.	REVISION	DATE

Contractors shall verify all dimensions at the job.



SAL Project No.: 24-104

Mechanical & Electrical Consultant:

SURI & ASSOCIATES LTD.
ENGINEERING CONSULTANTS

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T (905)-290-7861

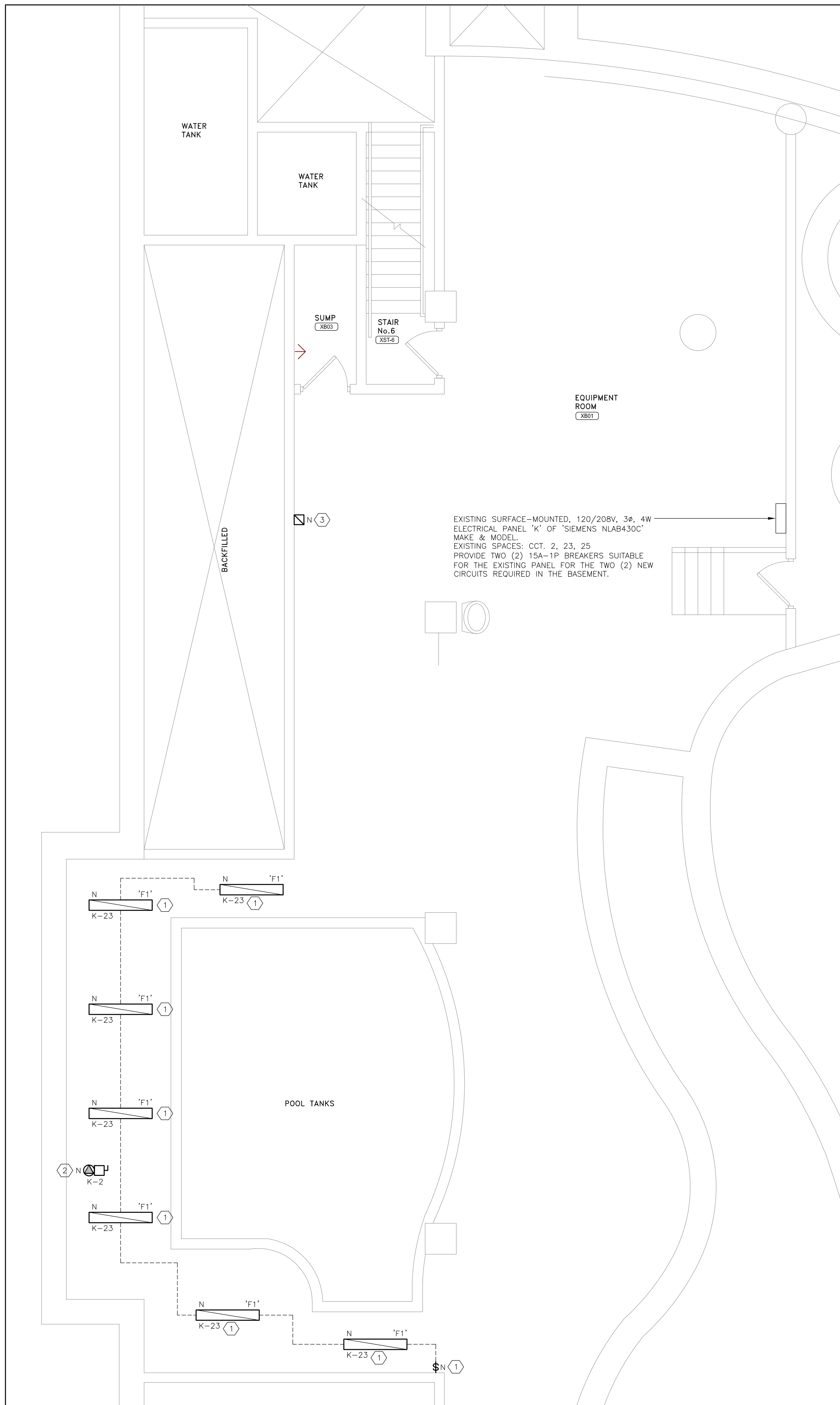
ELECTRICAL
MECHANICAL
LIGHTING
COMMUNICATION
SECURITY



Project
BIRCHMOUNT COMMUNITY
CENTRE
93 BIRCHMOUNT ROAD,
TORONTO, ONTARIO. M1N 3J7
POOL HVAC IMPROVEMENTS

Drawing Title
FIRST FLOOR KEY PLAN

Checked:	RS	Date:	MAY 2024
Drawn:	RS	Scale:	AS NOTED
File Number:		Dwg Number:	E3



1 BASEMENT PART PLAN - NEW ELECTRICAL PLAN
E4 SCALE: 1:50

DRAWING NOTES:

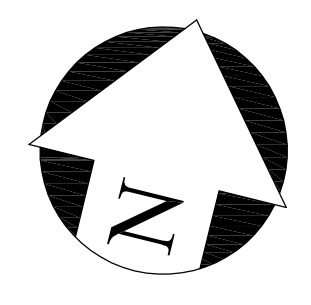
- ① PROVIDE NEW LIGHT FIXTURES THROUGHOUT THE POOL TUNNEL AS SHOWN. THE POOL TUNNEL IS CURRENTLY VERY POORLY LIT. CONNECT LIGHTING TO A NEW DEDICATED CIRCUIT IN PANEL 'K'; PROVIDE A NEW 15A-1P BREAKER SUITABLE FOR THE PANEL. PROVIDE A NEW LINE-VOLTAGE ON/OFF TOGGLE LIGHT SWITCH WHERE SHOWN. ALL CONDUIT SHALL BE OF ALUMINUM CONSTRUCTION. ALL FIXTURES SHALL BE SUPPORTED USING ADJUSTABLE AIR CRAFT CABLE. INSTALL LIGHT FIXTURES BELOW AND TO CLEAR ALL EXISTING OBSTRUCTIONS. SITE VERIFY AND COORDINATE EXACT POSITIONING AND MOUNTING HEIGHTS.
LIGHT FIXTURE TYPE 'F1' SHALL BE LITHONIA CLX-L48-4000LM-HEF-MVOLT-GZ10-40K-80CRI OR EQUAL FROM COOPER OR PEERLESS ELECTRIC
- ② PROVIDE 120V POWER CONNECTION COMPLETE WITH LOCAL DISCONNECT SWITCH TO THE NEW IN-LINE EXHAUST FAN 'EF-4'. CONNECT THE EXHAUST FAN TO A NEW DEDICATED CIRCUIT IN PANEL 'K'; PROVIDE A NEW 15A-1P BREAKER SUITABLE FOR THE PANEL. ALL CONDUIT SHALL BE OF ALUMINUM CONSTRUCTION. ELECTRICAL CONTRACTOR TO PROVIDE BONDING OF THE NEW DUCTWORK ASSOCIATED WITH EXHAUST FAN 'EF-4' (SEE MECHANICAL DRAWINGS) TO THE EXISTING BUILDING GROUND IN ACCORDANCE WITH THE ONTARIO ELECTRICAL SAFETY CODE.
- ③ LOCATION OF NEW STARTER FOR EXHAUST FAN 'EF-4'.

GENERAL NOTES :

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

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SAL Project No.: 24-104

Mechanical & Electrical Consultant:

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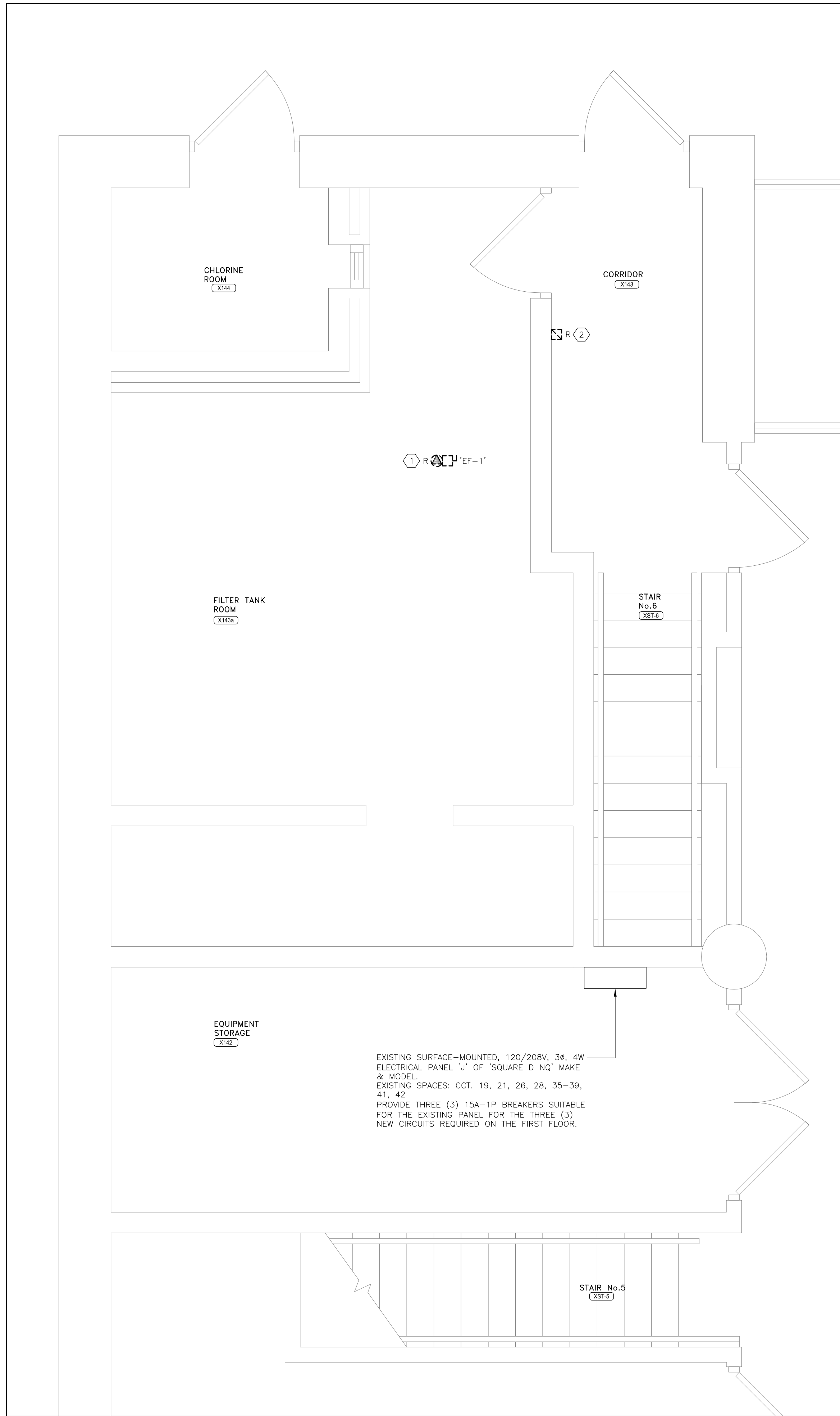
Project
BIRCHMOUNT COMMUNITY
CENTRE
93 BIRCHMOUNT ROAD,
TORONTO, ONTARIO. M1N 3J7
POOL HVAC IMPROVEMENTS

Drawing Title
BASEMENT - NEW ELECTRICAL
LAYOUT

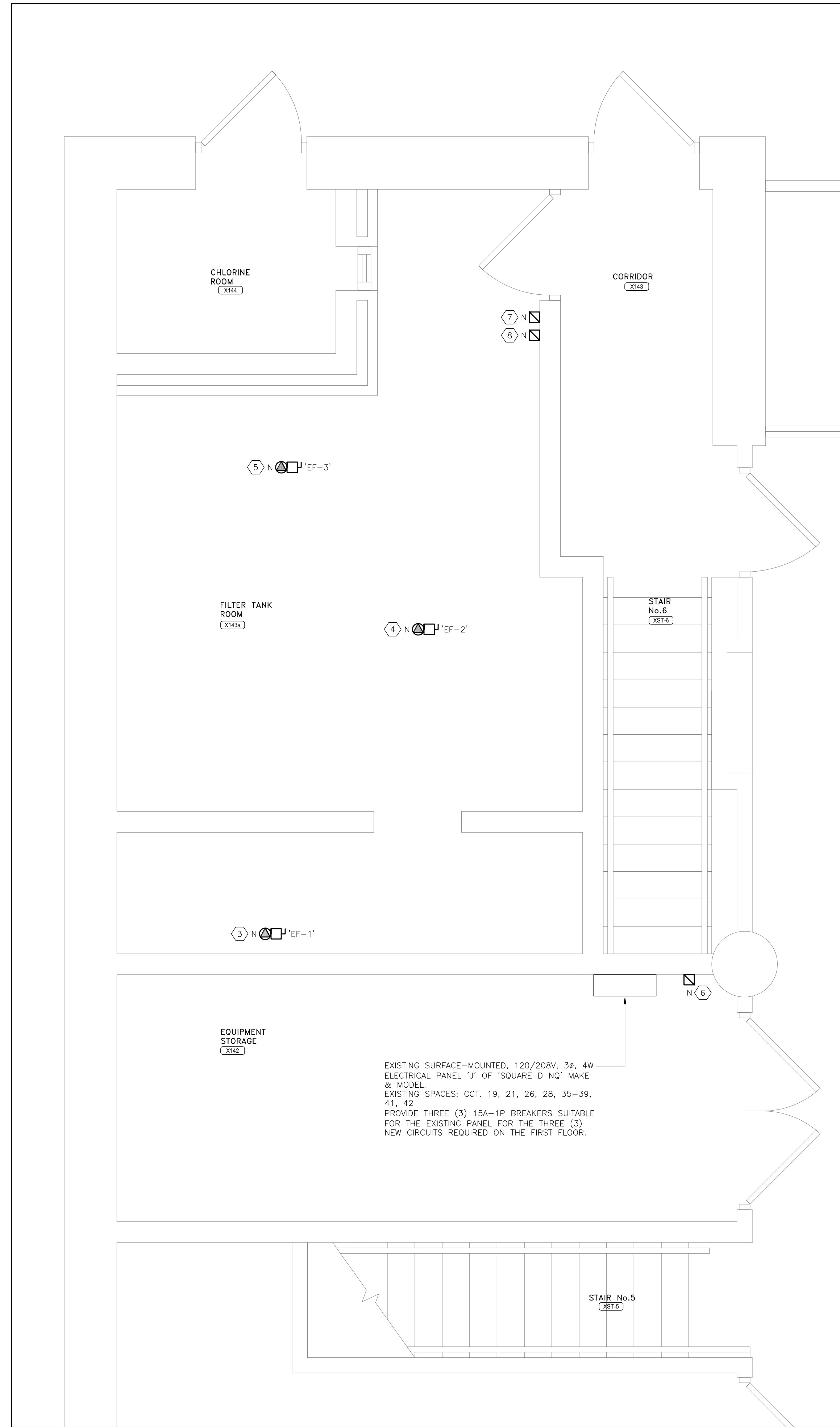
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1 FIRST FLOOR PART PLAN - EXISTING ELECTRICAL PLAN
E5 SCALE: 1:25



2 FIRST FLOOR PART PLAN - NEW ELECTRICAL PLAN
E5 SCALE: 1:25

DRAWING NOTES:

- 1 DISCONNECT POWER CONNECTION TO THE EXISTING EXHAUST FAN 'EF-1' SERVING THE SERVICE ROOM EXHAUST. REMOVE ALL REDUNDANT WIRING/RACEWAYS TO THE EXISTING SOURCE.
- 2 REMOVE THE EXISTING STARTER SERVING THE EXISTING EXHAUST FAN 'EF-1'. REMOVE ALL REDUNDANT WIRING/RACEWAYS TO THE EXISTING SOURCE.
- 3 PROVIDE 120V POWER CONNECTION COMPLETE WITH LOCAL DISCONNECT SWITCH TO THE NEW IN-LINE EXHAUST FAN 'EF-1'. CONNECT THE EXHAUST FAN TO A NEW DEDICATED CIRCUIT IN PANEL 'J'. PROVIDE A NEW 15A-1P BREAKER SUITABLE FOR THE PANEL. ALL CONDUIT SHALL BE OF ALUMINUM CONSTRUCTION. ELECTRICAL CONTRACTOR TO PROVIDE BONDING OF THE NEW DUCTWORK ASSOCIATED WITH EXHAUST FAN 'EF-1' (SEE MECHANICAL DRAWINGS) TO THE EXISTING BUILDING GROUND IN ACCORDANCE WITH THE ONTARIO ELECTRICAL SAFETY CODE.
- 4 PROVIDE 120V POWER CONNECTION COMPLETE WITH LOCAL DISCONNECT SWITCH TO THE NEW IN-LINE EXHAUST FAN 'EF-2'. CONNECT THE EXHAUST FAN TO A NEW DEDICATED CIRCUIT IN PANEL 'J'. PROVIDE A NEW 15A-1P BREAKER SUITABLE FOR THE PANEL. ALL CONDUIT SHALL BE OF ALUMINUM CONSTRUCTION. ELECTRICAL CONTRACTOR TO PROVIDE BONDING OF THE NEW DUCTWORK ASSOCIATED WITH EXHAUST FAN 'EF-2' (SEE MECHANICAL DRAWINGS) TO THE EXISTING BUILDING GROUND IN ACCORDANCE WITH THE ONTARIO ELECTRICAL SAFETY CODE.
- 5 PROVIDE 120V POWER CONNECTION COMPLETE WITH LOCAL DISCONNECT SWITCH TO THE NEW IN-LINE EXHAUST FAN 'EF-3'. CONNECT THE EXHAUST FAN TO A NEW DEDICATED CIRCUIT IN PANEL 'J'. PROVIDE A NEW 15A-1P BREAKER SUITABLE FOR THE PANEL. ALL CONDUIT SHALL BE OF ALUMINUM CONSTRUCTION. ELECTRICAL CONTRACTOR TO PROVIDE BONDING OF THE NEW DUCTWORK ASSOCIATED WITH EXHAUST FAN 'EF-3' (SEE MECHANICAL DRAWINGS) TO THE EXISTING BUILDING GROUND IN ACCORDANCE WITH THE ONTARIO ELECTRICAL SAFETY CODE.
- 6 LOCATION OF NEW STARTER FOR EXHAUST FAN 'EF-1'.
- 7 LOCATION OF NEW STARTER FOR EXHAUST FAN 'EF-2'.
- 8 LOCATION OF NEW STARTER FOR EXHAUST FAN 'EF-3'.

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SAL Project No.: 24-104

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ELECTRICAL MECHANICAL LIGHTING COMMUNICATION SECURITY



Project
BIRCHMOUNT COMMUNITY CENTRE
93 BIRCHMOUNT ROAD,
TORONTO, ONTARIO. M1N 3J7
POOL HVAC IMPROVEMENTS

Drawing Title
FIRST FLOOR - EXISTING & NEW ELECTRICAL LAYOUTS

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File Number:	Dwg Number: E5