

CITY OF TORONTO

SPADINA MUSEUM GARAGE

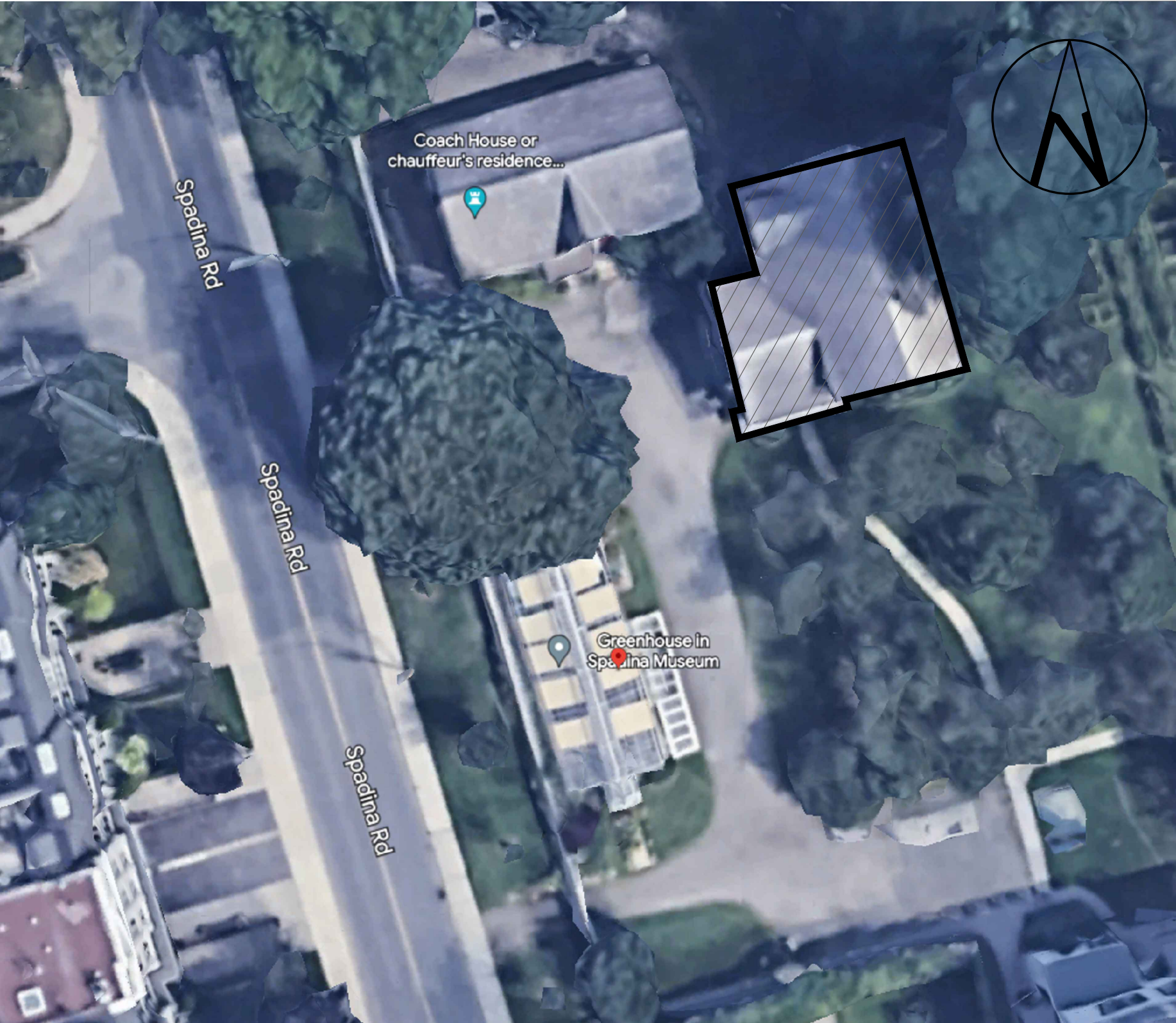
REHABILITATION AND

SITE ACCESSIBILITY

CLIENT PROJECT #:A22048
M4S PROJECT #:22626

285 SPADINA ROAD
TORONTO, ON M5R 2V5

CONTENT	ISSUED FOR	DATE
MECHANICAL DRAWINGS	ISSUED FOR PERMIT/TENDER	2023/08/04
ELECTRICAL DRAWINGS	ISSUED FOR PERMIT/TENDER	2023/08/04




 **KEY PLAN**
AREA IN CONTRACT

DRAWING LIST	
DWG No.	DESCRIPTION
CP-000	COVER PAGE AND DRAWING LIST
M-100	GENERAL NOTES, LEGENDS AND SCHEDULES
M-101	SCHEDULES
M-200	BASEMENT- PLUMBING - DEMOLITION
M-201	BASEMENT - PLUMBING BELOW & ABOVE GRADE - MODIFICATION
M-202	GROUND FLOOR - PLUMBING - DEMOLITION AND MODIFICATION
M-203	SECOND FLOOR - PLUMBING - DEMOLITION AND MODIFICATION
M-300	BASEMENT - HVAC - DEMOLITION AND MODIFICATION
M-301	GROUND FLOOR - HVAC - DEMOLITION AND MODIFICATION
M-302	SECOND FLOOR - HVAC - DEMOLITION AND MODIFICATION
M-303	ATTIC - HVAC - MODIFICATION & BASEMENT MECHANICAL ROOM
M-500	BASEMENT - HYDRONICS - MODIFICATION
M-501	GROUND FLOOR - HYDRONICS - MODIFICATION
M-502	SECOND FLOOR - HYDRONICS - MODIFICATION
M-800	SCHEMATICS
M-1000	DETAILS

DRAWING LIST	
DWG NO.	DESCRIPTION
E-100	GENERAL NOTES, LEGENDS AND SCHEDULES
E-101	SITE PLAN - ELECTRICAL
E-200	BASEMENT - LIGHTING - DEMOLITION & MODIFICATION
E-201	GROUND FLOOR - LIGHTING - DEMOLITION & MODIFICATION
E-202	SECOND FLOOR - LIGHTING - DEMOLITION & MODIFICATION
E-300	BASEMENT - POWER & SYSTEMS - DEMOLITION & MODIFICATION
E-301	GROUND FLOOR - POWER & SYSTEMS - DEMOLITION & MODIFICATION
E-302	SECOND FLOOR - POWER & SYSTEM - DEMOLITION & MODIFICATION
E-306	ATTIC - POWER & SYSTEMS - MODIFICATION
E-800	LUMINAIRE SCHEDULE
E-801	PANEL SCHEDULES
E-900	SINGLE LINE DIAGRAM
E-1000	DETAILS
E-1001	DETAILS

DO NOT SCALE DRAWINGS. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND ADVISE CONSULTANTS OF ANY ERRORS OR OMISSIONS. NO VARIATIONS OR MODIFICATIONS TO WORK SHOWN SHALL BE IMPLEMENTED WITHOUT PRIOR WRITTEN APPROVAL. ALL PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED BY THE LATEST REVISION. ALL DRAWINGS AND SPECIFICATIONS REMAIN THE PROPERTY OF MAT 4SITE ENGINEERS LTD.

5	2023/08/04	ISSUED FOR PERMIT/TENDER
4	2023/07/12	ISSUED FOR 95% REVIEW
3	2023/06/02	ISSUED FOR 50% CD REVIEW
2	2023/04/26	ISSUED FOR 100% DD REVIEW
1	2023/04/10	ISSUED FOR 50% REVIEW
No.	Date	Action
<div>MAT 4SITE ENGINEERS LTD. 620 WILSON AVE., SUITE 300, TORONTO, ON M5K 1Z3 PHONE: 416-229-6574 FAX: 416-229-4105</div>		
<div>OrientationStamp</div> <div>Project Name and Address: SPADINA MUSEUM GARAGE REHABILITATION AND SITE ACCESSIBILITY 285 SPADINA RD, TORONTO, ON M5R2V5</div> <div>Drawing title COVER PAGE AND DRAWING LIST</div>		
Scale: N.T.S.		Project No. 22626
Designer: S.N.		Date: 2023/01/25
Drawn by: S.N.		Checked by: R.S.
Drawing file: 22626-M		Client Approval
Revision No. 0		Drawing No. CP-000

GENERAL NOTES:

1. THESE GENERAL NOTES APPLY TO ALL DRAWINGS.
2. GENERAL SCOPE OF WORK
 - 2.1. FURNISH ALL LABOUR, MATERIALS, EQUIPMENT, TOOLS AND SUPPORTS AS WELL AS SUPERVISION TO PROVIDE A COMPLETE INSTALLATION, TESTED AND IN GOOD WORKING ORDER, AS SHOWN ON THE DRAWINGS.
 - 2.2. THE CONTRACTOR SHALL PERFORM THE WORK STIPULATED IN THE CONTRACT AND ANY OR ALL CONTRACT CHANGES AND CHANGE DIRECTIVES, AND SHALL FURNISH, UNLESS OTHERWISE PROVIDED IN THE CONTRACT, EVERYTHING NECESSARY FOR THE PROPER PERFORMANCE AND COMPLETION OF THE WORK.
 - 2.3. ALL WORK SHALL BE FULLY TESTED, COMMISSIONED AND IN GOOD WORKING ORDER AT TIME OF HAND-OVER TO OWNER.
 - 2.4. MAKE GOOD ANY DAMAGES TO EXISTING EQUIPMENT AND/OR SYSTEM(S). COORDINATE WORK AND WORKING HOURS WITH THE OWNER AND OTHER TRADES TO MINIMIZE DISRUPTION.
 - 2.5. ALL WORK SHALL BE COMPLETED ONCE ADEQUATE PROTECTION OF ADJACENT SPACES HAS BEEN INSTALLED. CONTRACTOR TO ENSURE MINIMAL DUST CREATION DURING WORK.
 - 2.6. PROVIDE CAULKING AND FIRESTOPPING FOR ALL MECHANICAL SERVICES PASSING THROUGH FIRE SEPARATIONS AS INDICATED ON THE ARCHITECTURAL LAYOUT.
 - 2.7. FOR EQUIPMENT PERFORMANCE AND CONSTRUCTION, REFER TO SCHEDULES AND SPECIFICATIONS.
 - 2.8. FOR EQUIPMENT INSTALLATION, REFER TO SCHEDULES, SPECIFICATIONS AND MANUFACTURER'S RECOMMENDATIONS FOR MORE INFORMATION.
3. DRAWINGS
 - 3.1. DRAWINGS SHOW GENERAL INTENT OF THE WORK AND PROPOSED ROUTING ONLY.
 - 3.2. DO NOT SCALE DRAWINGS. CONTRACTOR SHALL CONFIRM ALL DIMENSIONS BY FIELD MEASURE BEFORE PROCEEDING WITH THE WORK.
 - 3.3. CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING POSSIBLE INTERFERENCES AND INFORMING THE ENGINEER PRIOR TO STARTING ANY WORK.
 - 3.4. ANY DISCREPANCIES BETWEEN DRAWINGS AND SPECIFICATIONS AND/OR EXISTING CONDITIONS ARE TO BE REFERRED TO CONSULTANT FOR INSTRUCTIONS BEFORE ANY WORK BEGINS AND BEFORE ANY MATERIAL/EQUIPMENT IS ORDERED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ASSOCIATED COSTS RESULTING FROM ANY REWORK CAUSED BY NOT FOLLOWING THIS PROCESS.
4. SITE CONDITIONS
 - 4.1. EXAMINE SITE CONDITIONS TO ENSURE THAT WORK CAN BE SATISFACTORILY CARRIED OUT AS SHOWN. IF SITE EXAMINATION REVEALS ANY DIFFICULTIES THAT WILL PREVENT THE WORK FROM BEING CARRIED OUT AS DESIGNED, THESE MUST BE INDICATED IN THE TENDER PRICE, AND BROUGHT TO THE ATTENTION OF THE ENGINEER.
 - 4.2. THE CONTRACTOR SHALL INFORM THE ENGINEER IN WRITING OF ANY ADDITIONAL DIFFICULTIES, INTERFERENCES AND SITE CONSTRAINTS THAT MAY BE IDENTIFIED DURING THE CONSTRUCTION PERIOD.
 - 4.3. ALL NOISY WORK SHALL BE COORDINATED WITH THE LANDLORD AND/ OR CITY OF TORONTO STAFF.
 - 4.4. COORDINATE SITE ACCESS AND DELIVERIES WITH LANDLORD AND/OR GENERAL CONTRACTOR.
 - 4.5. ALL EXISTING SERVICES ARE NOT SHOWN ON THE DRAWINGS AND ARE EXPOSED DURING

GENERAL NOTES:

DEMOLITION/CONSTRUCTION SHALL BE VERIFIED BY THE CONTRACTOR AS TO THE SOURCE AND ROUTING AND SHALL BE REPORTED TO THE CONSULTANT WITH PROPOSED RESOLUTIONS.

5. **CLEANING**

5.1. CLEAN PREMISES DAILY AT THE END OF EACH WORK DAY.

5.2. DO NOT ACCUMULATE EQUIPMENT, TOOLS, DEBRIS AND WASTE MATERIALS ON SITE. REMOVE FROM SITE DAILY.

5.3. COMPLETELY REMOVE ALL DEBRIS AND RUBBISH FROM SPACE ONCE WORK IS COMPLETE.

5.4. ALL MATERIALS TO BE DISPOSED OF CONSTRUCTION SITE IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS.

6. **EXISTING EQUIPMENT AND SYSTEMS**

6.1. DISCONNECT, RECONNECT OR RELOCATE EXISTING EQUIPMENT OR SERVICES WHERE SHOWN OR AS REQUIRED TO PERMIT NEW WORK TO BE INSTALLED WITHOUT INTERFERENCES. ENSURE THAT REQUIRED SERVICES ARE MAINTAINED.

6.2. COORDINATE WITH THE OWNER BEFORE INTERRUPTING ANY ESSENTIAL SERVICES.

6.3. ROUTING OF NEW SERVICES MAY BE ADJUSTED TO ACCOMMODATE EXISTING SERVICES AND CONDITIONS PROVIDED THAT THE INTENT OF THE DRAWINGS IS MET AND THE ORIGINAL STANDARDS ARE MAINTAINED.

6.4. PROVIDE DRAWINGS OF PROPOSED REVISIONS TO ENGINEER FOR APPROVAL BEFORE BEGINNING ANY WORK. INCORPORATE ALL CHANGES IN AS BUILT DRAWINGS.

6.5. COORDINATE ALL ROUTING CHANGES WITH OTHER TRADES THAT MAY BE AFFECTED.

6.6. ENGINEER TO BE ADVISED PRIOR TO CHANGES WHERE CHANGES COULD BE SIGNIFICANT.

6.7. THE CONTRACTOR TO TAKE EXTRA CARE DURING THIS INSTALLATION NOT TO DISTURB THE OPERATIONS OF THE COMPLEX. IT IS CRITICAL THAT THERE WILL BE NO UNSCHEDULED SHUTDOWNS OR INTERRUPTIONS OF ANY OPERATIONS.

6.8. ALL ASSOCIATED COSTS OF THESE ITEMS LISTED ABOVE WILL THE RESPONSIBILITY OF THE CONTRACTOR.

7. **OPEN FLAMES AND WELDING**

7.1. NO OPEN FLAMES OR WELDING IS PERMITTED WITHIN THE BUILDING WITHOUT WRITTEN PERMISSION BY THE OWNER AND/OR THE ENGINEER.

7.2. HOT WORK PERMIT MUST BE VISIBLE AT ALL TIMES.

7.3. ADEQUATE NUMBER OF FIRE EXTINGUISHERS MUST BE PROVIDED DURING THE OPEN FLAME PROCESS.

ENERGY RECOVERY VENTILATOR SCHEDULE														
TAG	MANUFACTURER	MODEL	SYSTEM	FAN				FILTER	TEMPERATURE (°F)				WEIGHT (LB)	NOTES
				AIR FLOW (CFM)	E.S.P (IN.)	MOTOR (HP)			WINTER		SUMMER			
						KW (POWER INPUT)	V/ø/Hz		TE	TL	TE	TL		
ERV-1	OXYGEN 8	H05	SUPPLY AIR	340	0.5	0.5	208/1/60	MERV-13	0	51.8	90	79.1	436	FOR INDOOR USE, TO BE COMPLETE WITH ELECTRIC PRE-HEAT AND POST-HEAT COIL
			EXHAUST AIR	340	0.5	0.5	208/1/60	MERV-13	72	20.2	75	85.9		
ERV-2	ALDES	E130-HR	SUPPLY AIR	100	0.75	0.2	120/1/60	MERV-13	-	-	-	-	32	FOR INDOOR USE, HEATING SRE 61% @32°F OUTSIDE TEMPERATURE, PRE-HEAT AND POST-HEAT COIL
			EXHAUST AIR	100	0.75	0.2	120/1/60	MERV-13	-	-	-	-		
ERV-3	OXYGEN 8	SALDA 4X P S300	SUPPLY AIR	280	1.1	0.17	208/1/60	MERV-13	0	49.3	90	79.6	436	FOR INDOOR USE, TO BE COMPLETE WITH ELECTRIC PRE-HEAT AND POST-HEAT COIL
			EXHAUST AIR	280	1.1	0.17	208/1/60	MERV-13	72	22.7	75	85.4		

BOILER SCHEDULE													
TAG	LOCATION	MANUFACTURER	MODEL	CAPACITY		FLUID TYPE	MAX WATER FLOW (gpm)	TYPE	WEIGHT (lbs)	DIMENSION L X W X H (in)	VOLTAGE (V/q/Hz)	AMPS	NOTES
				RATED KW	OUTPUT (MBH)								
B-1	BASEMENT	PRECISION BOILERS	PCW1-020	20	68	WATER	6.4	ELECTRIC	600	30X20X52	208/3/60	56	
B-2	BASEMENT	PRECISION BOILERS	PCW1-030	30	102	WATER	9.6	ELECTRIC	600	30X20X52	208/3/60	84	
REFERENCE NOTES: 1. ELECTRIC BOILER, TO BE C/W CONTROL PANEL													

SPLIT SYSTEM SCHEDULE																			
TAG	MANUFACTURER	MODEL	LOCATION	REFRIGERANT	FAN		ELECTRICAL					COOLING			HEATING		DIMENSIONS (WXHXD) (in)	WEIGHT (lbs)	NOTES
					MAX AIR FLOW (CFM)	ESP (in. W.C.)	V/φ/Hz	MCA (A)	MOP (A)	TOTAL CAPACITY (MBH)	INDOOR DB/WB (°F)	OUTDOOR DB/WB (°F)	TOTAL CAPACITY (MBH)	INDOOR DB/WB (°F)	OUTDOOR DB/WB (°F)				
CU-1	DAIKIN AC	RXTQ60TAVJUJA	OUTSIDE	R410A	-	-	208-230/1/60	29.1	35	57.5	-	-	57	-	-	35X53X12	225		
CU-2	DAIKIN AC	RXL12QMJVJU9A	OUTSIDE	R410A	-	-	208-230/1/60	13	-	10.6	-	-	18	-	-	27X22X11	70	- CONNECTS TO FC-7	
FCU-1	DAIKIN AC	FXSQ12TBVJU	ELEVATOR LOBBY - GROUND	R410A	335	0.6	208-230/1/60	0.8	15	12	80 / 67	95 / 75	13.5	70 / 60	47 / 43	10X22X32	55	- INCLUDE PROGRAMMABLE THERMOSTAT TO BE INSTALLED BY DIV.25. WALL MOUNTED UNIT.	
FCU-2	DAIKIN AC	FXAQ07PVJU	KITCHEN	R410A	260	-	208-230/1/60	0.4	-	7.5	80 / 67	95 / 75	8.5	70 / 70	47 / 43	32X11X10	26	- INCLUDE PROGRAMMABLE THERMOSTAT TO BE INSTALLED BY DIV.25. WALL MOUNTED UNIT.	
FCU-3	DAIKIN AC	FXAQ07PVJU	BOARD ROOM	R410A	260	-	208-230/1/60	0.4	-	7.5	80 / 67	95 / 75	8.5	70 / 70	47 / 43	32X11X10	26	- INCLUDE PROGRAMMABLE THERMOSTAT TO BE INSTALLED BY DIV.25. WALL MOUNTED UNIT.	
FCU-4	DAIKIN AC	FXAQ18PVJU	GARAGE	R410A	490	-	208-230/1/60	0.4	15	17.5	80 / 67	95 / 75	20	70 / 70	47 / 43	42X12X10	31	- INCLUDE PROGRAMMABLE THERMOSTAT TO BE INSTALLED BY DIV.25. WALL MOUNTED UNIT.	
FCU-5	DAIKIN AC	FXSQ18TBVJU	ELEVATOR LOBBY - 2ND	R410A	490	-	208-230/1/60	1.6	15	18	80 / 67	95 / 75	20	70 / 60	47 / 43	10X40X32	77	- INCLUDE PROGRAMMABLE THERMOSTAT TO BE INSTALLED BY DIV.25. WALL MOUNTED UNIT.	
FCU-6	DAIKIN AC	FXAQ07PVJU	OFFICE	R410A	260	-	208-230/1/60	0.4	-	7.5	80 / 67	95 / 75	8.5	70 / 70	47 / 43	32X11X10	26	- INCLUDE PROGRAMMABLE THERMOSTAT TO BE INSTALLED BY DIV.25. WALL MOUNTED UNIT.	
FCU-7	DAIKIN AC	FTX12NMVJUJA	ELEVATOR MACHINE ROOM	R410A	434	-	208-230/1/60	13	-	10.6	80 / 67	95 / 75	13.4	70 / 60	47 / 43	30X11X10	18	- INCLUDE PROGRAMMABLE THERMOSTAT TO BE INSTALLED BY DIV.25. WALL MOUNTED UNIT. CONNECTS TO CU-2	

REMARKS:

- SPECIFICATION FOR REFERENCE ONLY, SUITABLE (APPROVED) UNIT WILL BE ACCEPTED, ACCEPTABLE ALTERNATE MANUFACTURERS MITSUBISHI, LG.
- SYSTEM TO BE C/W REFRIGERANT LINE SET, INSULATION AND ALL ACCESSORIES REQUIRED FOR DISTRIBUTION.
- REFRIGERANT PIPES SHALL BE SIZED BY CERTIFIED REFRIGERANT TECHNICIAN IN ACCORDANCE WITH MANUFACTURER GUIDELINES;
- CONDENSING UNIT (CU-1 & CU-2) TO BE PAD MOUNTED, MAINTAIN ALL REQUIRED CLEARANCES.
- SPLIT SYSTEM SHALL BE C/W R-410A REFRIGERANT, ADJUSTABLE ESP, BUILT-IN HIGH PERFORMANCE DRAIN PUMP, REFRIGERANT PRE-CHARGE, HEATING CAPACITY TO BE RATED FOR -25°F.
- INDOOR UNITS SHALL BE SUPPLIED WITH FACTORY BUILT IN FILTER SECTION, CONDENSATE PUMP, AND WIRELESS REMOTE.
- CONDENSATE PUMP TO BE POWERED BY INDOOR UNITS.

PUMP SCHEDULE													
TAG	SYSTEM	MANUFACTURER	MODEL	VFD	FLUID TYPE	WEIGHT (LBS)	FLOW (GPM)	HEAD (FT)	FLANGE (IN)	MOTOR			NOTES
										RPM	HP	VOLTAGE (V/φ/Hz)	
P-1	DHWR RECIRCULATION PUMP	BELL & GOSSETT	ECOCIRC 20-18	N	WATER	-	4	10	1	1725	1/2	208/1/60	- 1
P-2	HYDRONIC HEATING PUMP	BELL & GOSSETT	ECOCIRC XL 55-45	N	WATER	30	16	26	1-1/2	1725	1/2	208/1/60	
S-2	SUMP PIT PUMP	LIBERTY PUMPS	280 SERIES	N	WATER	30	-	-	1-1/2	3600	1/2	115/1/60	- 2



REFERENCE NOTES:
1. C/W ALL REQUIRED VALVES AND FITTINGS. PUMP SHALL BE APPROVED FOR POTABLE WATER.
2. SUMP PUMP TO BE EQUIPPED WITH FLOAT ALARM.















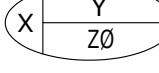

DOMESTIC HOT WATER TANK SCHEDULE													
TAG	LOCATION	MANUFACTURER	MODEL	QUANTITY	DRY WEIGHT (lbs)	CAPACITY (gal)	INPUT (kW)	RECOVERY	ELECTRICAL	FLA (AMP)	HEIGHT (in)	DIAMETER (in)	NOTES
HWT-1	BASEMENT	RHEEM	ELD66	1	170	65	12	32 GPH @ 100°F	208/1/60	19.2	59	23	ELECTRIC HOT WATER TANK, C/W PRV

VALVES & ACCESSORIES LEGEND	
SYMBOL	DESCRIPTION
	GATE VALVE
	BALL VALVE
	BALANCING VALVE
	BUTTERFLY VALVE
	CHECK VALVE
	BACK WATER PREVENTION VALVE ASSEMBLY
	Y-STRAINER
	GLOBE VALVE
	SOLENOID VALVE
	FLOOR DRAIN
	FUNNEL FLOOR DRAIN
	P-TRAP
	CLEANOUT
	CLEANOUT - UPRIGHT
	WATER METER
	GAS METER
	PLUG VALVE COCK
	BACKWATER VALVE
	HOSE BIB
	FLEX CONNECTION
	EXPANSION JOINT
	FUNNEL FLOOR DRAIN
	TEMPERATURE GAUGE
	PRESSURE REDUCING VALVE
	PRESSURE RELIEF VALVE
	2-WAY CONTROL VALVE - DDC
	3-WAY CONTROL VALVE - DDC
	3-WAY MIXING VALVE
	THERMOSTATIC MIXING VALVE
	AUTOMATIC AIR VENT
	MANUAL AIR VENT
	PRESSURE GAUGE

HVAC LEGEND	
SYMBOL	DESCRIPTION
	FLEX DUCT
	CONTROL WIRE
	PIPE BREAK
	CAP
	FLOW ARROW
	THERMOSTAT
	AIR FLOW ARROW
	SUPPLY DUCT - UP
	SUPPLY DUCT - DOWN
	RETURN DUCT - UP
	RETURN DUCT - DOWN
	EXHAUST DUCT - UP
	EXHAUST DUCT - DOWN
	FLEX DUCT CONNECTION
	DUCT REDUCER
	BALANCING DAMPER
	BACK DRAFT DAMPER
	FIRE DAMPER

ABBREVIATIONS	
ABB.	DESCRIPTION
ABV	AUTOMATIC BALANCING VALVE
AFF	ABOVE FINISHED FLOOR
BAS	BUILDING AUTOMATION SYSTEM
BDD	BACK DRAFT DAMPER
BFP	BACK FLOW PREVENTOR
CBV	CIRCUIT BALANCING VALVE
CTE	CONNECT TO EXISTING
CO	CLEANOUT
DCW	DOMESTIC COLD WATER
DHW	DOMESTIC HOT WATER
DHWR	DOMESTIC HOT WATER RETURN
FD	FLOOR DRAIN
FF	FINISHED FLOOR
FFD	FUNNEL FLOOR DRAIN
HUM	HUMIDIFIER
NO / NC	NORMALLY OPEN / NORMALLY CLOSED
SD	SCUPPER DRAIN
SFI	SIGHT FLOW INDICATOR
TDV	TRIPLE DUTY VALVE
TPV	TYPICAL
VFD	VARIABLE FREQUENCY DRIVE

PLUMBING LEGEND	
SYMBOL	DESCRIPTION
— — — — —	DOMESTIC COLD WATER
— — — — —	DOMESTIC HOT WATER
— — — — —	DOMESTIC HOT WATER RETURN
— SAN —	SANITARY
— - SAN - -	SANITARY - BELOW
— ST —	STORM
- - ST - -	STORM - BELOW
— — — — —	VENT
 FD	FLOOR DRAIN
	P-TRAP

GENERAL & ANNOTATION LEGEND	
SYMBOL	DESCRIPTION
	NEW WORK
	EXISTING TO REMAIN
	EXISTING TO BE DEMOLISHED
	PIPE RISE
	PIPE DROP
	PIPE TEE
	PIPE BREAK
	CAP
	UNION
	FLANGE CONNECTION
	PUMP
	FLOW ARROW
	GATE VALVE
	EQUIPMENT TAG
	AIR TERMINAL TAG X = TYPE: A, B, C, ETC. (REFER TO SPECIFICATIONS FOR MORE DETAIL) Y = AIR FLOW (CFM) Z = FLEX DUCT SIZE (in)
	PIPE SLOPE ARROW
X@Y% SLOPE	X = PIPE DIAMETER (in) Y = SLOPE %

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No.	Date	Action
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Orientation	Stamp
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Project Name and Address:

SPADINA MUSEUM
GARAGE REHABILITATION AND
SITE ACCESSIBILITY
285 SPADINA RD,
TORONTO, ON M5R2V5

Drawing title
GENERAL NOTES, LEGENDS
AND SCHEDULES

Scale: N.T.S.	Project No. 22626
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Designer: S.N.	Date: 2023/01/25
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Drawn by: S.N.	Checked by: R.S.
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Drawing file: 22626-M	Client Approval
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Revision No.	Drawing No.
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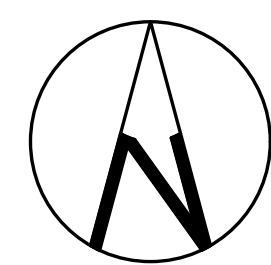
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1. THESE GENERAL NOTES APPLY TO ALL DEMOLITION DRAWINGS.
2. DISCONNECT EXISTING UNUSED EQUIPMENT FROM POWER SUPPLY AND MAKE SAFE.
3. PRIOR TO COMMENCING THE DEMOLITION WORK, EXAMINE SITE CAREFULLY INCLUDING ALL THE ELEMENTS THAT NEED TO BE REMOVED.
4. REMOVE ALL ABANDONED PIPES, HANGERS, INSERTS, CONDUITS, DUCTS, AND SERVICES.
5. SEAL AND FIRESTOP (IF NECESSARY) ALL AFFECTED AREAS TO MATCH EXISTING.
6. CONTRACTOR TO CLEAN ALL DEBRIS AND RUBBISH GENERATED FROM THIS WORK.
7. CONTRACTOR TO REPAIR ANY DAMAGE CAUSED BY THIS WORK AND MAKE GOOD TO MATCH EXISTING.
8. CONTRACTOR SHALL REPAIR UNUSED FLOOR AND WALL OPENINGS AT ALL PENETRATIONS OF DEMOLISHED WORK. REPAIRS SHALL MATCH EXISTING CONDITION AND FINISHES.
9. DRAIN ALL AFFECTED SYSTEMS AS REQUIRED AND REFILL AFTER WORK IS COMPLETE. REFER TO SPECIFICATIONS FOR SPECIFIC PIPE FLUSHING MATERIALS AND PROCEDURES.
10. ALL EXISTING SYSTEM ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR IS RESPONSIBLE TO SITE VERIFY EXACT LOCATION OF EQUIPMENT AND POINT OF CONNECTION TO EXISTING AS REQUIRED.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR DISASSEMBLY AND CUTTING OF ALL EQUIPMENT/MATERIAL TO ALLOW FOR REMOVAL FROM SITE.

- ① EXISTING LAUNDRY SINK TO BE REUSED, FAUCET TO BE DEMOLISHED AND REMOVED. DCW, DHW AND SANITARY PIPING TO BE DEMOLISHED AND REMOVED BACK TO SOURCE AND CAPPED.
- ② EXISTING FLOOR DRAINS (TYP. OF ALL) AND P-TRAPS BELOW GRADE TO BE DEMOLISHED AND REMOVED. EXISTING SANITARY PIPING TO BE CAPPED AND SEALED WATERTIGHT.
- ③ EXISTING WATERLINE FEEDING THE GREENHOUSE TO BE KEPT OPERATIONAL DURING CONSTRUCTION. CONTRACTOR TO VERIFY THE EXACT LOCATION ON SITE.

5	2023/08/04	ISSUED FOR PERMIT/TENDER
4	2023/07/12	ISSUED FOR 95% REVIEW
3	2023/06/02	ISSUED FOR 50% CD REVIEW
2	2023/04/26	ISSUED FOR 100% DD REVIEW
1	2023/04/10	ISSUED FOR 50% REVIEW
No.	Date	Action



Project Name and Address:


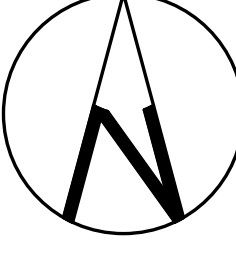

SPADINA MUSEUM
GARAGE REHABILITATION AND
SITE ACCESSIBILITY
285 SPADINA RD,
TORONTO, ON M5R2V5

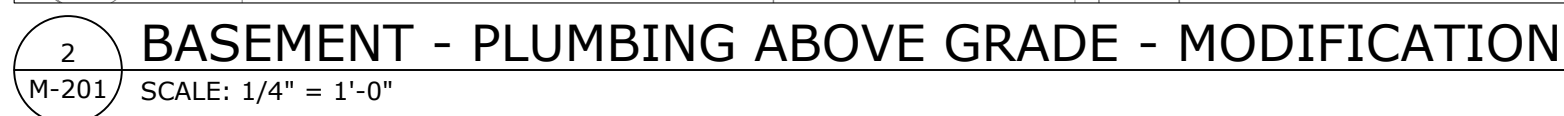
Drawing title
BASEMENT- PLUMBING -
DEMOLITION

Revision No.	Drawing No.
0	M-200

1. THESE GENERAL NOTES APPLY TO ALL PLUMBING DRAWINGS.
2. CONTRACTOR TO VERIFY ALL LOCATIONS AND PIPE SLOPES ON SITE.
3. COORDINATE WITH ALL TRADES FOR NEW PLUMBING FIXTURE AND PIPING INSTALLATION.
4. PROVIDE ALL NEW FIXTURES AS INDICATED.
5. PROVIDE NEW ISOLATION VALVE AND FLEXIBLE HOSE CONNECTIONS FOR EACH FIXTURE. SIZE TO MATCH FIXTURE.
6. ALL DCW, DHW & DRAINAGE PIPING SHALL BE INSULATED AS PER SPECIFICATION.
7. ALL PLUMBING VENT PIPING SHALL BE INSIDE WALLS AND INSTALLED IN ACCORDANCE WITH THE OBC PART 7. CONTRACTOR TO VERIFY VENT PIPING ON SITE. PROVIDE ALL MODIFICATION TO EXISTING TO MEET OBC REQUIREMENTS.
8. CONTRACTOR SHALL SEAL UNUSED OPENINGS AND REPAIR FLOOR/CEILING TO MATCH EXISTING.
9. ALL BELOW GRADE SANITARY PIPING TO BE 4"Ø @ 1% SLOPE, UNLESS INDICATED OTHERWISE.

- ① EXISTING LAUNDRY SINK RELOCATED AS SHOWN. PROVIDE NEW FAUCET FOR EXISTING LAUNDRY SINK.
- ② DCW FOR HOSE BIB TO RUN THROUGH AN ENCLOSURE, REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS.

5	2023/08/04	ISSUED FOR PERMIT/TENDER			
4	2023/07/12	ISSUED FOR 95% REVIEW			
3	2023/06/02	ISSUED FOR 50% CD REVIEW			
2	2023/04/26	ISSUED FOR 100% DD REVIEW			
1	2023/04/10	ISSUED FOR 50% REVIEW			
No.	Date	Action			
 <div>MAT 4SITE ENGINEERS LTD. 620 WILSON AVE., SUITE 320, TORONTO, ON M3K 1Z3 PHONE: 416-229-8574 FAX: 416-229-4195</div>					
 					
Orientation			Stamp		
Project Name and Address: SPADINA MUSEUM GARAGE REHABILITATION AND SITE ACCESSIBILITY 285 SPADINA RD, TORONTO, ON M5R2V5					
Drawing title BASEMENT – PLUMBING BELOW & ABOVE GRADE – MODIFICATION					
Scale: 1/4" = 1'-0"			Project No. 22626		
Designer: S.N.			Date: 2023/01/25		
Drawn by: S.N.			Checked by: R.S.		
Drawing file: 22626-M			Client Approval		
Revision No. 0			Drawing No. M-201		



DEMOLITION GENERAL NOTES:

1. THESE GENERAL NOTES APPLY TO ALL DEMOLITION DRAWINGS.
2. DISCONNECT EXISTING UNUSED EQUIPMENT FROM POWER SUPPLY AND MAKE SAFE.
3. PRIOR TO COMMENCING THE DEMOLITION WORK, EXAMINE SITE CAREFULLY INCLUDING ALL THE ELEMENTS THAT NEED TO BE REMOVED.
4. REMOVE ALL ABANDONED PIPES, HANGERS, INSERTS, CONDUITS, DUCTS, AND SERVICES.
5. SEAL AND FIRESTOP (IF NECESSARY) ALL AFFECTED AREAS TO MATCH EXISTING.
6. CONTRACTOR TO CLEAN ALL DEBRIS AND RUBBISH GENERATED FROM THIS WORK.
7. CONTRACTOR TO REPAIR ANY DAMAGE CAUSED BY THIS WORK AND MAKE GOOD TO MATCH EXISTING.
8. CONTRACTOR SHALL REPAIR UNUSED FLOOR AND WALL OPENINGS AT ALL PENETRATIONS OF DEMOLISHED WORK. REPAIRS SHALL MATCH EXISTING CONDITION AND FINISHES.
9. DRAIN ALL AFFECTED SYSTEMS AS REQUIRED AND REFILL AFTER WORK IS COMPLETE. REFER TO SPECIFICATIONS FOR SPECIFIC PIPE FLUSHING MATERIALS AND PROCEDURES.

DEMOLITION GENERAL NOTES: (CONTINUED)

10. ALL EXISTING SYSTEM ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR IS RESPONSIBLE TO SITE VERIFY EXACT LOCATION OF EQUIPMENT AND POINT OF CONNECTION TO EXISTING AS REQUIRED.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR DISASSEMBLY AND CUTTING OF ALL EQUIPMENT/MATERIAL TO ALLOW FOR REMOVAL FROM SITE.

REFERENCE NOTES:

- ① EXISTING PLUMBING VENT TO REMAIN AND BE RELOCATED HIGHER AS REQUIRED.
- ② DEMOLISH AND REMOVED EXISTING PLUMBING FIXTURES AND ASSOCIATED PIPING BACK TO SOURCE. PIPING TO BE CAPPED AT SOURCE AND SANITARY TO BE DEMOLISHED TO GRADE AND CLEAN-OUT IS TO BE PROVIDED.
- ③ EXISTING SINK AND FAUCET TO BE REMOVED AND RELOCATED TO THE 2ND FLOOR KITCHENETTE AS SHOWN.
- ④ EXISTING LAVATORY AND FAUCET TO BE REMOVED AND RE-INSTALLED AS SHOWN.

PLUMBING GENERAL NOTES:

1. THESE GENERAL NOTES APPLY TO ALL PLUMBING DRAWINGS.
2. CONTRACTOR TO VERIFY ALL LOCATIONS AND PIPE SLOPES ON SITE.
3. COORDINATE WITH ALL TRADES FOR NEW PLUMBING FIXTURE AND PIPING INSTALLATION.
4. PROVIDE ALL NEW FIXTURES AS INDICATED.
5. PROVIDE NEW ISOLATION VALVE AND FLEXIBLE HOSE CONNECTIONS FOR EACH FIXTURE. SIZE TO MATCH FIXTURE.
6. ALL DCW, DHW & DRAINAGE PIPING SHALL BE INSULATED AS PER SPECIFICATION.
7. ALL PLUMBING VENT PIPING SHALL BE INSIDE WALLS AND INSTALLED IN ACCORDANCE WITH THE OBC PART 7. CONTRACTOR TO VERIFY VENT PIPING ON SITE. PROVIDE ALL MODIFICATION TO EXISTING TO MEET OBC REQUIREMENTS.
8. CONTRACTOR SHALL SEAL UNUSED OPENINGS AND REPAIR FLOOR/CEILING TO MATCH EXISTING.

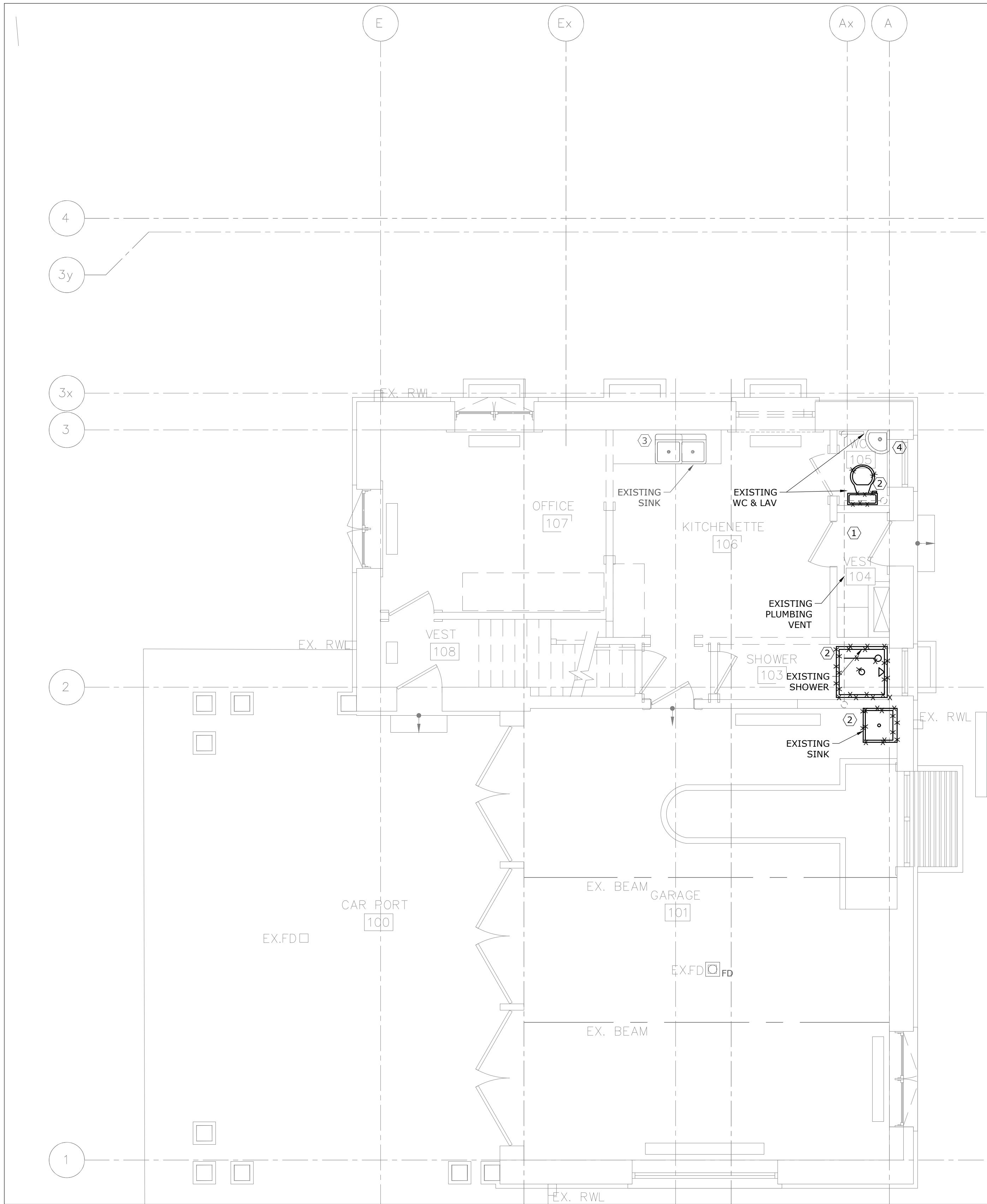
PLUMBING GENERAL NOTES (CONTINUED):

9. ALL BELOW GRADE SANITARY PIPING TO BE 4"Ø @ 1% SLOPE, UNLESS INDICATED OTHERWISE.
10. ALL PIPES TO BE ENCLOSED IN WALLS OR CEILINGS UNLESS OTHERWISE NOTED.

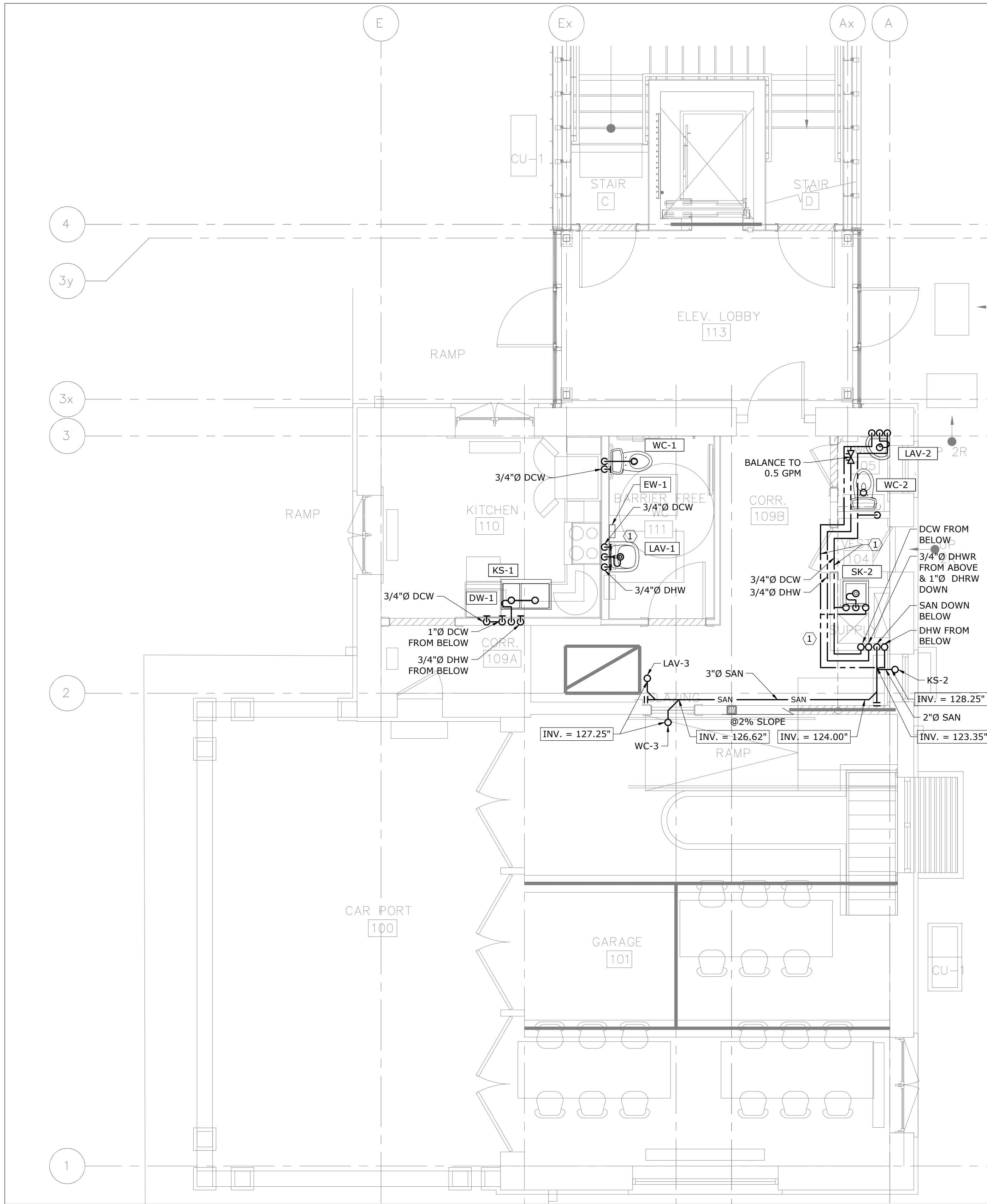
REFERENCE NOTES:

- ① RUN ALL PLUMBING PIPING WITHIN THE WALL CAVITIES. PIPING SHOWN OUTSIDE FOR CLARITY PURPOSES.

DO NOT SCALE DRAWINGS. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND ADVISE CONSULTANTS OF ANY ERRORS OR OMISSIONS. NO VARIATIONS OR MODIFICATIONS TO WORK SHOWN SHALL BE IMPLEMENTED WITHOUT PRIOR WRITTEN APPROVAL. ALL PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED BY THE LATEST REVISION. ALL DRAWINGS AND SPECIFICATIONS REMAIN THE PROPERTY OF MAT 4SITE ENGINEERS LTD.



1 GROUND FLOOR - PLUMBING - DEMOLITION
SCALE: 1/4" = 1'-0"

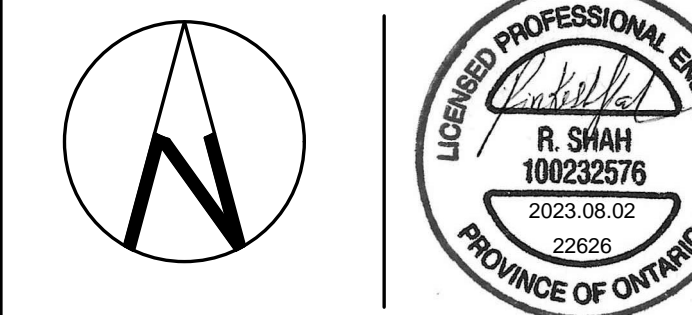


2 GROUND FLOOR - PLUMBING - MODIFICATION
SCALE: 1/4" = 1'-0"

5	2023/08/04	ISSUED FOR PERMIT/TENDER
4	2023/07/12	ISSUED FOR 95% REVIEW
3	2023/06/02	ISSUED FOR 50% CD REVIEW
2	2023/04/26	ISSUED FOR 100% DD REVIEW
1	2023/04/10	ISSUED FOR 50% REVIEW

No.	Date	Action
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MAT 4SITE ENGINEERS LTD.
620 WILSON AVE., SUITE 300, TORONTO, ON M5K 1Z3
PHONE: 416-229-6574 FAX: 416-229-4105



Orientation Stamp

Project Name and Address:
**SPADINA MUSEUM
GARAGE REHABILITATION AND
SITE ACCESSIBILITY**
285 SPADINA RD,
TORONTO, ON M5R2V5

Drawing title
**GROUND FLOOR –
PLUMBING – DEMOLITION
AND MODIFICATION**

Scale: 1/4" = 1'-0"	Project No. 22626
Designer: S.N.	Date: 2023/01/25
Drawn by: S.N.	Checked by: R.S.
Drawing file: 22626-M	Client Approval

Revision No.	Drawing No.
0	M-202

DEMOLITION GENERAL NOTES:

- THESE GENERAL NOTES APPLY TO ALL DEMOLITION DRAWINGS.
- DISCONNECT EXISTING UNUSED EQUIPMENT FROM POWER SUPPLY AND MAKE SAFE.
- PRIOR TO COMMENCING THE DEMOLITION WORK, EXAMINE SITE CAREFULLY INCLUDING ALL THE ELEMENTS THAT NEED TO BE REMOVED.
- REMOVE ALL ABANDONED PIPES, HANGERS, INSERTS, CONDUITS, DUCTS, AND SERVICES.
- SEAL AND FIRESTOP (IF NECESSARY) ALL AFFECTED AREAS TO MATCH EXISTING.
- CONTRACTOR TO CLEAN ALL DEBRIS AND RUBBISH GENERATED FROM THIS WORK.
- CONTRACTOR TO REPAIR ANY DAMAGE CAUSED BY THIS WORK AND MAKE GOOD TO MATCH EXISTING.
- CONTRACTOR SHALL REPAIR UNUSED FLOOR AND WALL OPENINGS AT ALL PENETRATIONS OF DEMOLISHED WORK. REPAIRS SHALL MATCH EXISTING CONDITION AND FINISHES.

DEMOLITION GENERAL NOTES: (CONTINUED)

- DRAIN ALL AFFECTED SYSTEMS AS REQUIRED AND REFILL AFTER WORK IS COMPLETE. REFER TO SPECIFICATIONS FOR SPECIFIC PIPE FLUSHING MATERIALS AND PROCEDURES.
 - ALL EXISTING SYSTEM ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR IS RESPONSIBLE TO SITE VERIFY EXACT LOCATION OF EQUIPMENT AND POINT OF CONNECTION TO EXISTING AS REQUIRED.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR DISASSEMBLY AND CUTTING OF ALL EQUIPMENT/MATERIAL TO ALLOW FOR REMOVAL FROM SITE.
- REFERENCE NOTES:
- EXISTING KITCHEN SINK TO BE DEMOLISHED AND REMOVED. DCW AND DHW PIPING TO BE DEMOLISHED BACK TO SOURCE AND CAPPED. SANITARY PIPING TO BE DEMOLISHED BACK TO STACK, CLEAN-OUT TO BE PROVIDED.
 - EXISTING BATHROOM GROUP TO BE DEMOLISHED AND REMOVED. DCW AND DHW PIPING TO BE DEMOLISHED BACK TO SOURCE AND CAPPED. SANITARY PIPING TO BE DEMOLISHED BACK TO STACK, CLEAN-OUT TO BE PROVIDED.

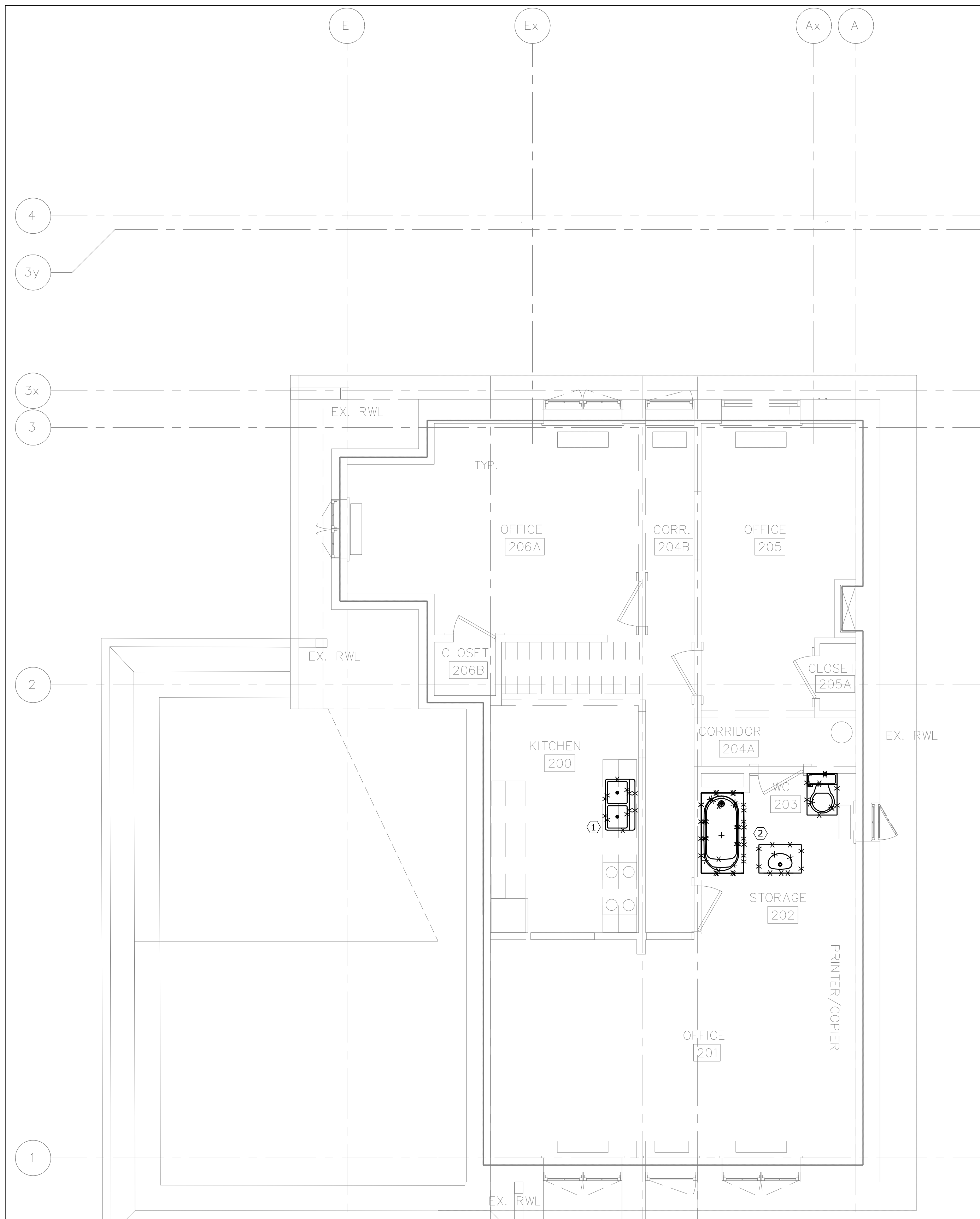
PLUMBING GENERAL NOTES:

- THESE GENERAL NOTES APPLY TO ALL PLUMBING DRAWINGS.
- CONTRACTOR TO VERIFY ALL LOCATIONS AND PIPE SLOPES ON SITE.
- COORDINATE WITH ALL TRADES FOR NEW PLUMBING FIXTURE AND PIPING INSTALLATION.
- PROVIDE ALL NEW FIXTURES AS INDICATED.
- PROVIDE NEW ISOLATION VALVE AND FLEXIBLE HOSE CONNECTIONS FOR EACH FIXTURE. SIZE TO MATCH FIXTURE.
- ALL DCW, DHW & DRAINAGE PIPING SHALL BE INSULATED AS PER SPECIFICATION.
- ALL PLUMBING VENT PIPING SHALL BE INSIDE WALLS AND INSTALLED IN ACCORDANCE WITH THE OBC PART 7. CONTRACTOR TO VERIFY VENT PIPING ON SITE. PROVIDE ALL MODIFICATION TO EXISTING TO MEET OBC REQUIREMENTS.

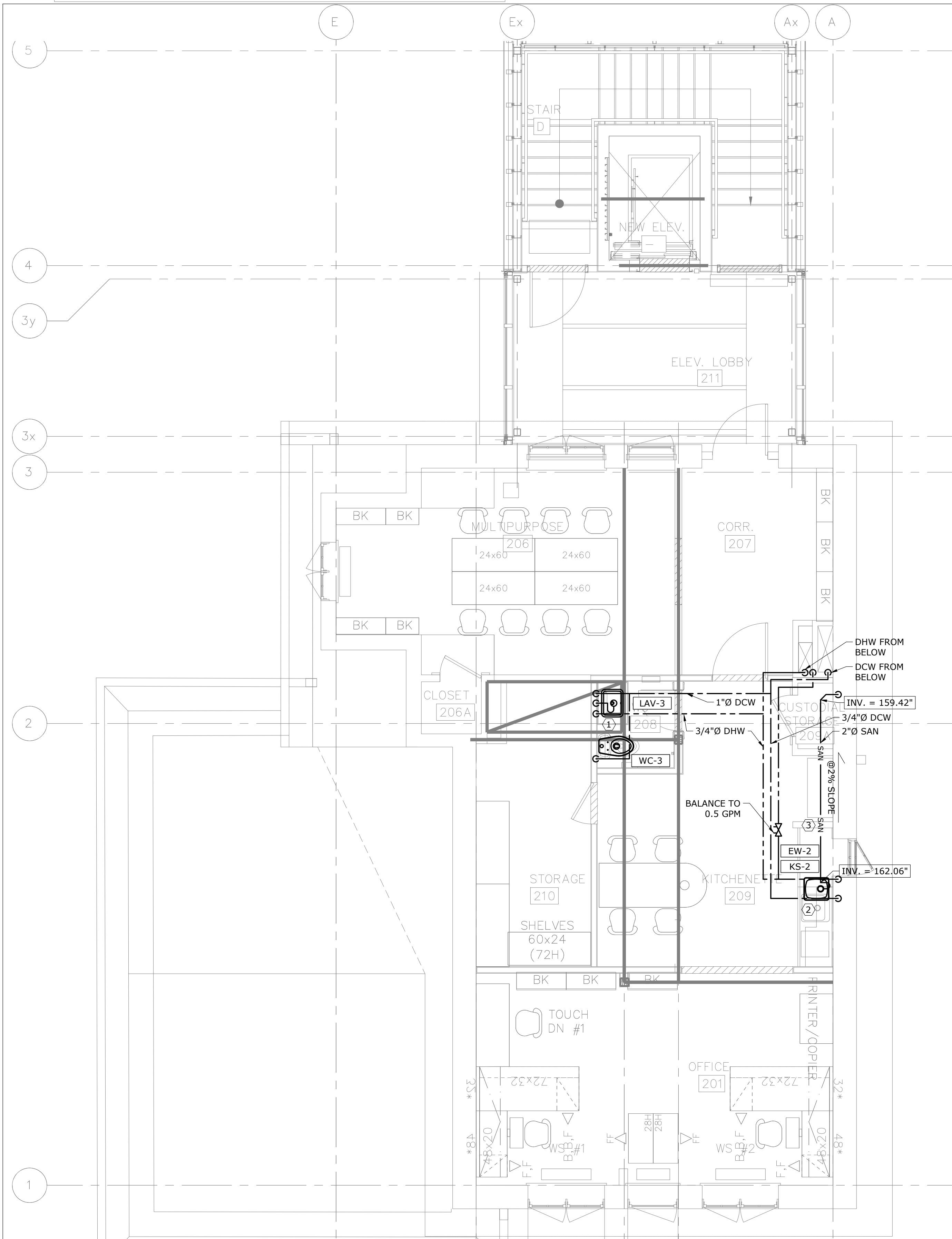
PLUMBING GENERAL NOTES (CONTINUED):

- CONTRACTOR SHALL SEAL UNUSED OPENINGS AND REPAIR FLOOR/CEILING TO MATCH EXISTING.
- REFERENCE NOTES:
- PROVIDE NEW PLUMBING FIXTURES AND ASSOCIATED PIPING AS SHOWN.
 - EXISTING KITCHEN SINK AND FAUCET FROM GROUND FLOOR RELOCATED AS SHOWN.
 - RUN SANITARY WITHIN HORIZONTAL SHAFT WITHIN THE MILLWORK. REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS.

DO NOT SCALE DRAWINGS.
CONTRACTOR MUST VERIFY ALL DIMENSIONS AND ADVISE CONSULTANTS OF ANY ERRORS OR OMISSIONS.
NO VARIATIONS OR MODIFICATIONS TO WORK SHOWN SHALL BE IMPLEMENTED WITHOUT PRIOR WRITTEN APPROVAL.
ALL PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED BY THE LATEST REVISION.
ALL DRAWINGS AND SPECIFICATIONS REMAIN THE PROPERTY OF MAT 4SITE ENGINEERS LTD.



1 SECOND FLOOR - PLUMBING - DEMOLITION
SCALE: 1/4" = 1'-0"

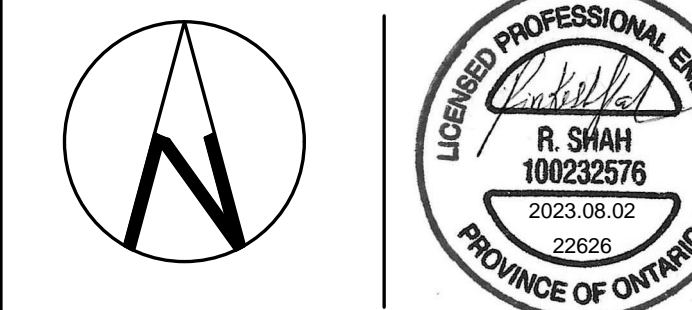


2 SECOND FLOOR - PLUMBING - MODIFICATION
SCALE: 1/4" = 1'-0"

5	2023/08/04	ISSUED FOR PERMIT/TENDER
4	2023/07/12	ISSUED FOR 95% REVIEW
3	2023/06/02	ISSUED FOR 50% CD REVIEW
2	2023/04/26	ISSUED FOR 100% DD REVIEW
1	2023/04/10	ISSUED FOR 50% REVIEW

No. Date Action

MAT 4SITE ENGINEERS LTD.
620 WILSON AVE., SUITE 300, TORONTO, ON M6K 1Z3
PHONE: 416-229-6574 FAX: 416-229-4105



Orientation Stamp
Project Name and Address:
**SPADINA MUSEUM
GARAGE REHABILITATION AND
SITE ACCESSIBILITY**
285 SPADINA RD,
TORONTO, ON M5R2V5

Drawing title
**SECOND FLOOR -
PLUMBING - DEMOLITION
AND MODIFICATION**

Scale: 1/4" = 1'-0"	Project No. 22626
Designer: S.N.	Date: 2023/01/25
Drawn by: S.N.	Checked by: R.S.
Drawing file: 22626-M	Client Approval

Revision No. 0	Drawing No. M-203
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DEMOLITION GENERAL NOTES:

1. THESE GENERAL NOTES APPLY TO ALL DEMOLITION DRAWINGS.
2. DISCONNECT EXISTING UNUSED EQUIPMENT FROM POWER SUPPLY AND MAKE SAFE.
3. PRIOR TO COMMENCING THE DEMOLITION WORK, EXAMINE SITE CAREFULLY INCLUDING ALL THE ELEMENTS THAT NEED TO BE REMOVED.
4. REMOVE ALL ABANDONED PIPES, HANGERS, INSERTS, CONDUITS, DUCTS, AND SERVICES.
5. SEAL AND FIRESTOP (IF NECESSARY) ALL AFFECTED AREAS TO MATCH EXISTING.
6. CONTRACTOR TO CLEAN ALL DEBRIS AND RUBBISH GENERATED FROM THIS WORK.
7. CONTRACTOR TO REPAIR ANY DAMAGE CAUSED BY THIS WORK AND MAKE GOOD TO MATCH EXISTING.
8. CONTRACTOR SHALL REPAIR UNUSED FLOOR AND WALL OPENINGS AT ALL PENETRATIONS OF

DEMOLITION GENERAL NOTES: (CONTINUED)

- DEMOLISHED WORK. REPAIRS SHALL MATCH EXISTING CONDITION AND FINISHES.
9. DRAIN ALL AFFECTED SYSTEMS AS REQUIRED AND REFILL AFTER WORK IS COMPLETE. REFER TO SPECIFICATIONS FOR SPECIFIC PIPE FLUSHING MATERIALS AND PROCEDURES.
 10. ALL EXISTING SYSTEM ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR IS RESPONSIBLE TO SITE VERIFY EXACT LOCATION OF EQUIPMENT AND POINT OF CONNECTION TO EXISTING AS REQUIRED.
 11. CONTRACTOR SHALL BE RESPONSIBLE FOR DISASSEMBLY AND CUTTING OF ALL EQUIPMENT/MATERIAL TO ALLOW FOR REMOVAL FROM SITE.
- REFERENCE NOTES:
- ① ALL EXISTING HWS AND HWR PIPING AND ASSOCIATED ACCESSORIES TO BE DEMOLISHED AND REMOVED. EXISTING CAST IRON RADIATORS TO REMAIN, SEE DETAILS ON M-1000.
 - ② EXISTING DRYER, EXHAUST AND VENT CAP TO BE DEMOLISHED AND REMOVED AS SHOWN.
 - ③ EXISTING BOILER, NATURAL GAS PIPING AND ASSOCIATED ACCESSORIES TO BE DEMOLISHED AND REMOVED AS SHOWN. NATURAL GAS TO BE DEMOLISHED AND REMOVED BACK TO 6" FROM BUILDING ENTRY AND CAPPED.

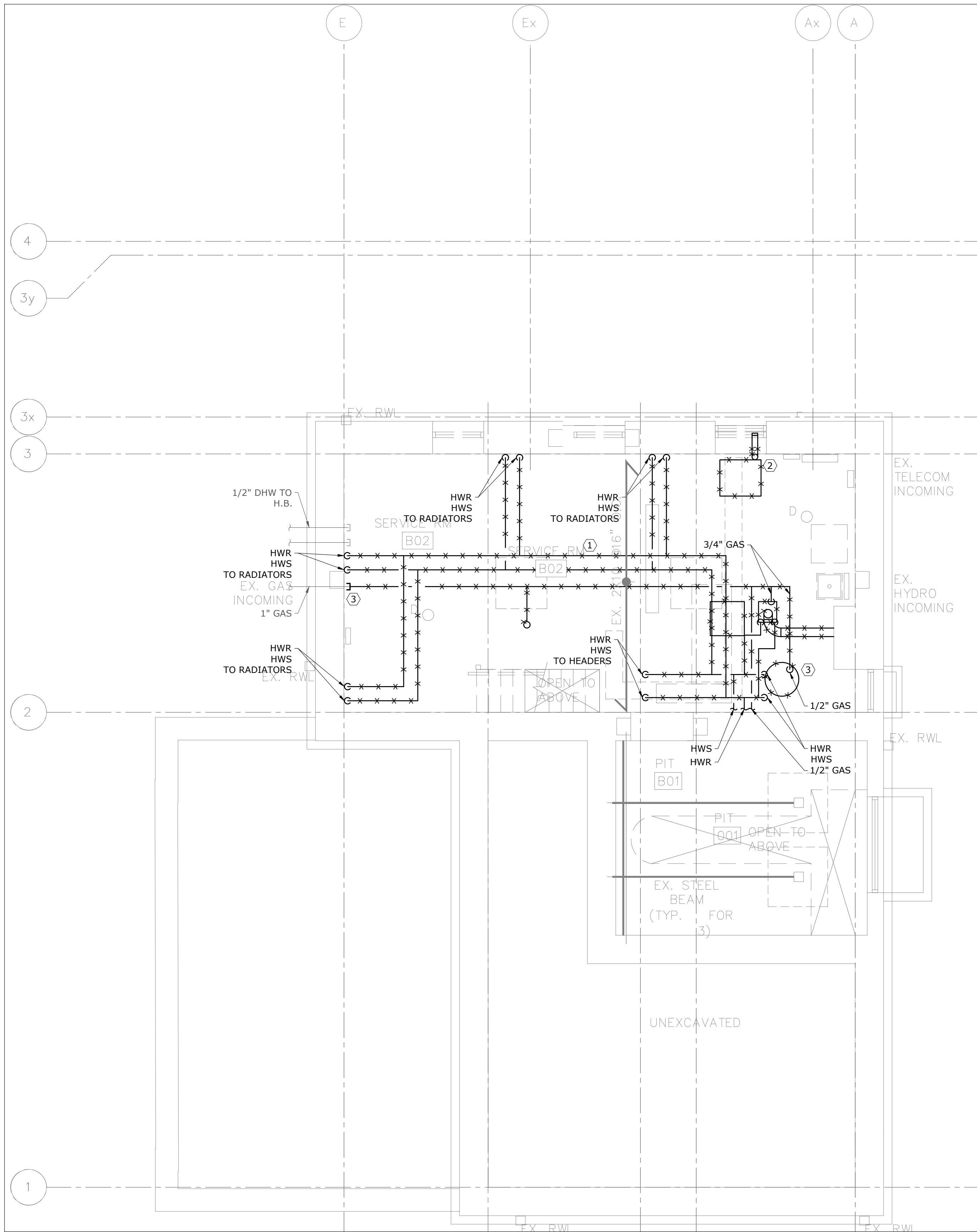
HVAC GENERAL NOTES:

1. THESE GENERAL NOTES APPLY TO ALL HVAC DRAWINGS.
2. ALL CONTROLS WORK TO BE COMPLETED BY CONTROLS CONTRACTOR.
3. EXISTING GRILLES AND DIFFUSERS TO REMAIN UNLESS OTHERWISE INDICATED.
4. PROVIDE NEW DUCTWORK, DIFFUSERS AND GRILLES AS REQUIRED AND/OR INDICATED.
5. PROVIDE NEW EQUIPMENT AND ALL ASSOCIATED ACCESSORIES AS REQUIRED TO COMPLETE A FULLY FUNCTIONING SYSTEM.
6. ALL GRILLE AND DIFFUSER LOCATIONS ARE TO BE COORDINATED WITH FINAL ARCHITECTURAL REFLECTED CEILING PLAN.
7. BALANCE ALL DIFFUSERS, GRILLES, AND OPEN ENDED DUCTS TO THE AIRFLOW INDICATED ON THE DRAWINGS.

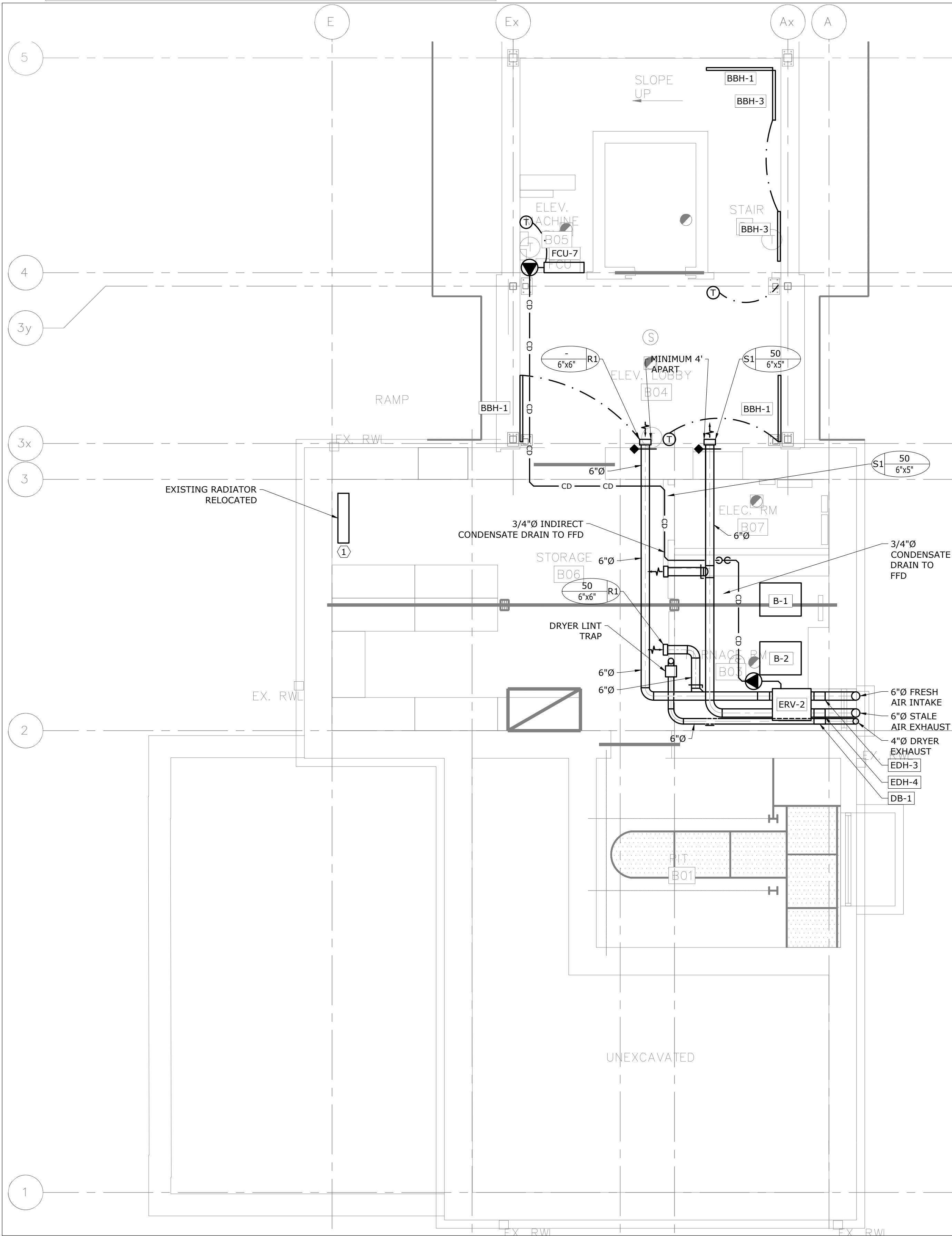
REFERENCE NOTES:

- ① ALL RADIATORS TO BE REMOVED AND RE-INSTALLED AS REQUIRED TO ACCOMMODATE ABATEMENT. RADIATORS ARE ALSO TO BE BRUSHED DOWN, RE-PAINTED AND FINISH TO BE COORDINATED WITH THE ARCHITECT.

DO NOT SCALE DRAWINGS.
CONTRACTOR MUST VERIFY ALL DIMENSIONS AND ADVISE CONSULTANTS OF ANY ERRORS OR OMISSIONS.
NO VARIATIONS OR MODIFICATIONS TO WORK SHOWN SHALL BE IMPLEMENTED WITHOUT PRIOR WRITTEN APPROVAL.
ALL PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED BY THE LATEST REVISION.
ALL DRAWINGS AND SPECIFICATIONS REMAIN THE PROPERTY OF MAT 4SITE ENGINEERS LTD.



1 BASEMENT - HVAC - DEMOLITION
M-300/ SCALE: 1/4" = 1'-0"

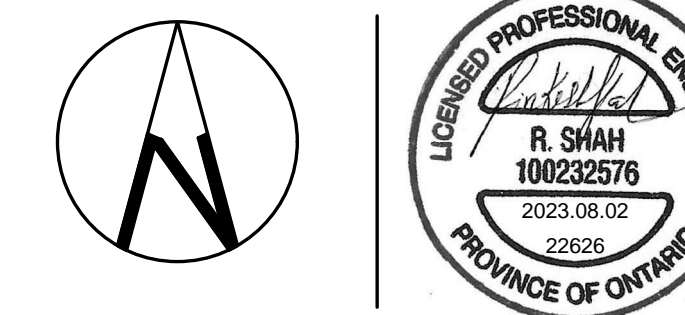


2 BASEMENT - HVAC - MODIFICATION
M-300/ SCALE: 1/4" = 1'-0"

5	2023/08/04	ISSUED FOR PERMIT/TENDER
4	2023/07/12	ISSUED FOR 95% REVIEW
3	2023/06/02	ISSUED FOR 50% CD REVIEW
2	2023/04/26	ISSUED FOR 100% DD REVIEW
1	2023/04/10	ISSUED FOR 50% REVIEW

No.	Date	Action
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MAT 4SITE ENGINEERS LTD.
620 WILSON AVE., SUITE 210, TORONTO, ON M6K 1Z3
PHONE: 416-229-6574 FAX: 416-229-4105



Orientation Stamp

Project Name and Address:
**SPADINA MUSEUM
GARAGE REHABILITATION AND
SITE ACCESSIBILITY**
285 SPADINA RD,
TORONTO, ON M5R2V5

Drawing title
**BASEMENT – HVAC –
DEMOLITION AND
MODIFICATION**

Scale: 1/4" = 1'-0"	Project No. 22626
Designer: S.N.	Date: 2023/01/25
Drawn by: S.N.	Checked by: R.S.
Drawing file: 22626-M	Client Approval

Revision No.	Drawing No.
0	M-300

DEMOLITION GENERAL NOTES:

1. THESE GENERAL NOTES APPLY TO ALL DEMOLITION DRAWINGS.
2. DISCONNECT EXISTING UNUSED EQUIPMENT FROM POWER SUPPLY AND MAKE SAFE.
3. PRIOR TO COMMENCING THE DEMOLITION WORK, EXAMINE SITE CAREFULLY INCLUDING ALL THE ELEMENTS THAT NEED TO BE REMOVED.
4. REMOVE ALL ABANDONED PIPES, HANGERS, INSERTS, CONDUITS, DUCTS, AND SERVICES.
5. SEAL AND FIRESTOP (IF NECESSARY) ALL AFFECTED AREAS TO MATCH EXISTING.
6. CONTRACTOR TO CLEAN ALL DEBRIS AND RUBBISH GENERATED FROM THIS WORK.
7. CONTRACTOR TO REPAIR ANY DAMAGE CAUSED BY THIS WORK AND MAKE GOOD TO MATCH EXISTING.
8. CONTRACTOR SHALL REPAIR UNUSED FLOOR AND WALL OPENINGS AT ALL PENETRATIONS OF DEMOLISHED WORK. REPAIRS SHALL MATCH EXISTING CONDITION AND FINISHES.
9. DRAIN ALL AFFECTED SYSTEMS AS REQUIRED AND REFILL AFTER WORK IS COMPLETE. REFER TO SPECIFICATIONS FOR SPECIFIC PIPE FLUSHING MATERIALS AND PROCEDURES.

DEMOLITION GENERAL NOTES: (CONTINUED)

10. ALL EXISTING SYSTEM ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR IS RESPONSIBLE TO SITE VERIFY EXACT LOCATION OF EQUIPMENT AND POINT OF CONNECTION TO EXISTING AS REQUIRED.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR DISASSEMBLY AND CUTTING OF ALL EQUIPMENT/MATERIAL TO ALLOW FOR REMOVAL FROM SITE.

REFERENCE NOTES:

- ① ALL EXISTING DUCTWORK, GRILLES, REGISTERS, DIFFUSERS AND, HWS AND HWR PIPING AND ACCESSORIES TO BE DEMOLISHED AND REMOVED AS SHOWN.
- ② EXISTING RADIATOR (TYP. OF 1) TO BE RELOCATED AND ASSOCIATED HWS AND HWR PIPING TO BE DEMOLISHED AS SHOWN.
- ③ ALL EXISTING HWS AND HWR PIPING AND ASSOCIATED ACCESSORIES TO BE DEMOLISHED AND REMOVED. EXISTING CAST IRON RADIATORS TO REMAIN AS INDICATED, SEE DETAILS ON M-1000.
- ④ EXISTING WASHROOM EXHAUST FAN AND ASSOCIATED DUCTWORK TO BE DEMOLISHED AND REMOVED AS SHOWN.

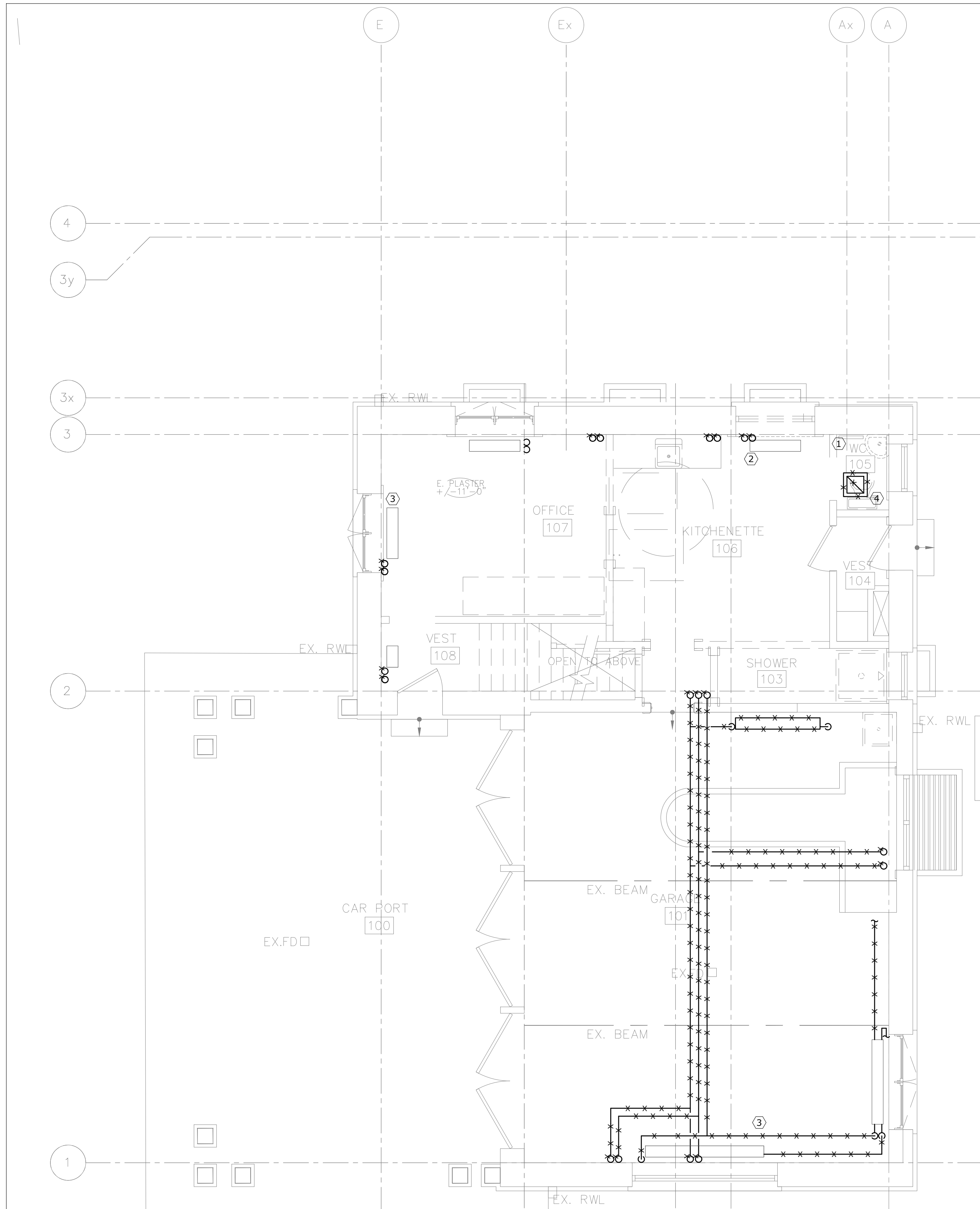
HVAC GENERAL NOTES:

1. THESE GENERAL NOTES APPLY TO ALL HVAC DRAWINGS.
2. ALL CONTROLS WORK TO BE COMPLETED BY CONTROLS CONTRACTOR.
3. EXISTING GRILLES AND DIFFUSERS TO REMAIN UNLESS OTHERWISE INDICATED.
4. PROVIDE NEW DUCTWORK, DIFFUSERS AND GRILLES AS REQUIRED AND/OR INDICATED.
5. PROVIDE NEW EQUIPMENT AND ALL ASSOCIATED ACCESSORIES AS REQUIRED TO COMPLETE A FULLY FUNCTIONING SYSTEM.
6. ALL GRILLE AND DIFFUSER LOCATIONS ARE TO BE COORDINATED WITH FINAL ARCHITECTURAL REFLECTED CEILING PLAN.
7. BALANCE ALL DIFFUSERS, GRILLES, AND OPEN ENDED DUCTS TO THE AIRFLOW INDICATED ON THE DRAWINGS.

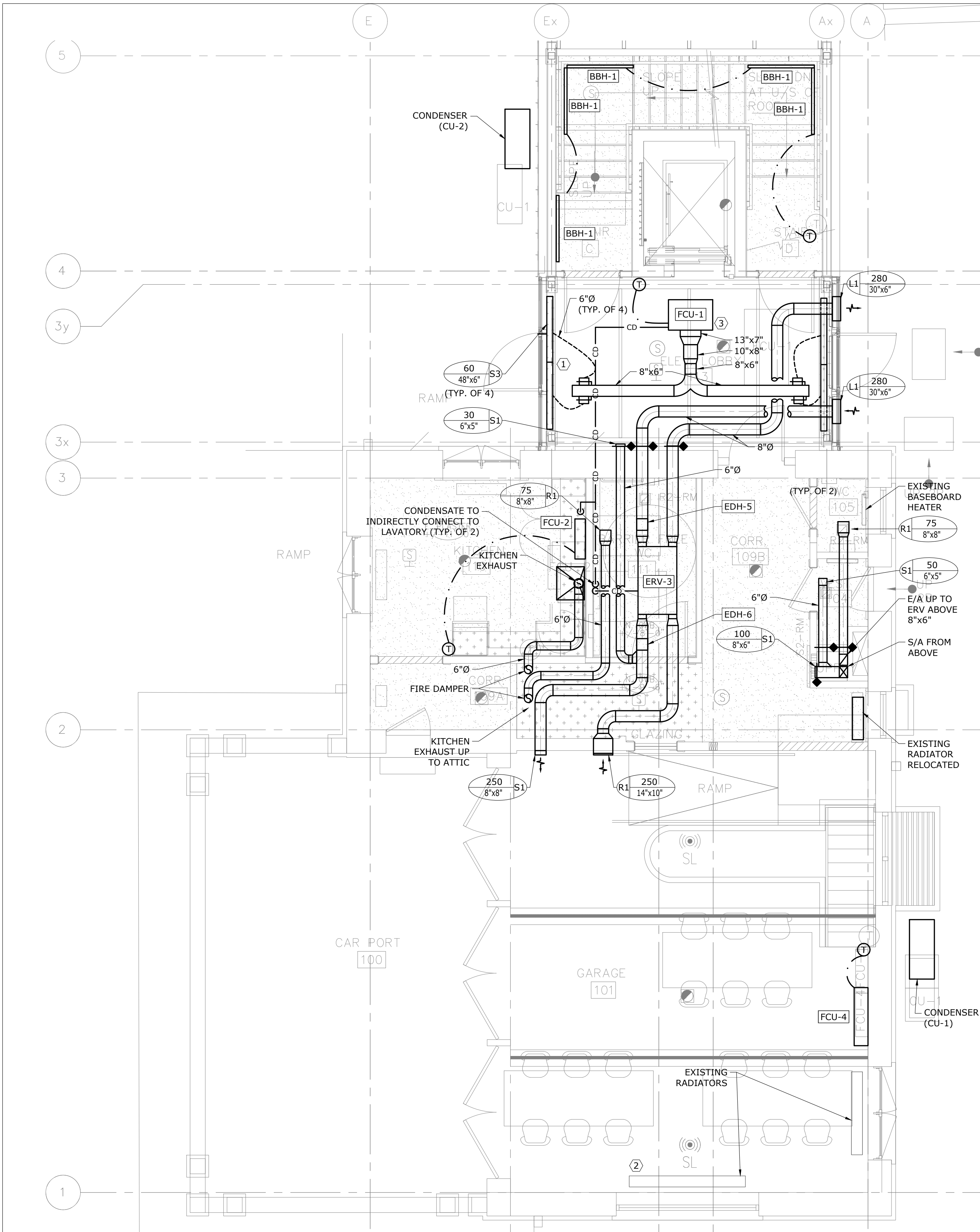
REFERENCE NOTES:

- ① PROVIDE NEW SUPPLY AIR PLENUM FOR LINEAR SLOT GRILLE DIFFUSERS. PLENUM TO BE THE WHOLE WIDTH OF THE GRILLE.
- ② ALL RADIATORS TO BE REMOVED AND RE-INSTALLED AS REQUIRED TO ACCOMMODATE ABATEMENT. RADIATORS ARE ALSO TO BE BRUSHED DOWN, RE-PAINTED AND FINISH TO BE COORDINATED WITH THE ARCHITECT.
- ③ ALL EQUIPMENT AND DUCTWORK IN THE ELEVATOR LOBBY TO BE PAINTED, COLOUR TO COORDINATED WITH ARCHITECT.

DO NOT SCALE DRAWINGS.
CONTRACTOR MUST VERIFY ALL DIMENSIONS AND ADVISE CONSULTANTS OF ANY ERRORS OR OMISSIONS.
NO VARIATIONS OR MODIFICATIONS TO WORK SHOWN SHALL BE IMPLEMENTED WITHOUT PRIOR WRITTEN APPROVAL.
ALL PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED BY THE LATEST REVISION.
ALL DRAWINGS AND SPECIFICATIONS REMAIN THE PROPERTY OF MAT 4SITE ENGINEERS LTD.



1 GROUND FLOOR - HVAC - DEMOLITION
M-301 SCALE: 1/4" = 1'-0"

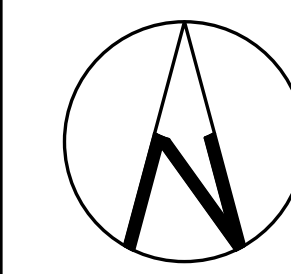


2 GROUND FLOOR - HVAC - MODIFICATION
M-301 SCALE: 1/4" = 1'-0"

5	2023/08/04	ISSUED FOR PERMIT/TENDER
4	2023/07/12	ISSUED FOR 95% REVIEW
3	2023/06/02	ISSUED FOR 50% CD REVIEW
2	2023/04/26	ISSUED FOR 100% DD REVIEW
1	2023/04/10	ISSUED FOR 50% REVIEW

No. Date Action

MAT 4SITE ENGINEERS LTD.
620 WILSON AVE., SUITE 300, TORONTO, ON M6K 1Z3
PHONE: 416-229-6574 FAX: 416-229-4105



Orientation



Stamp

Project Name and Address:

**SPADINA MUSEUM
GARAGE REHABILITATION AND
SITE ACCESSIBILITY**
285 SPADINA RD,
TORONTO, ON M5R2V5

Drawing title

**GROUND FLOOR - HVAC -
DEMOLITION AND
MODIFICATION**

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

Designer:

S.N.

Drawn by:

S.N.

Drawing file:

22626-M

Project No.

22626

Date:

2023/01/25

Checked by:

R.S.

Client Approval

Revision No.

0

Drawing No.

M-301

DEMOLITION GENERAL NOTES:

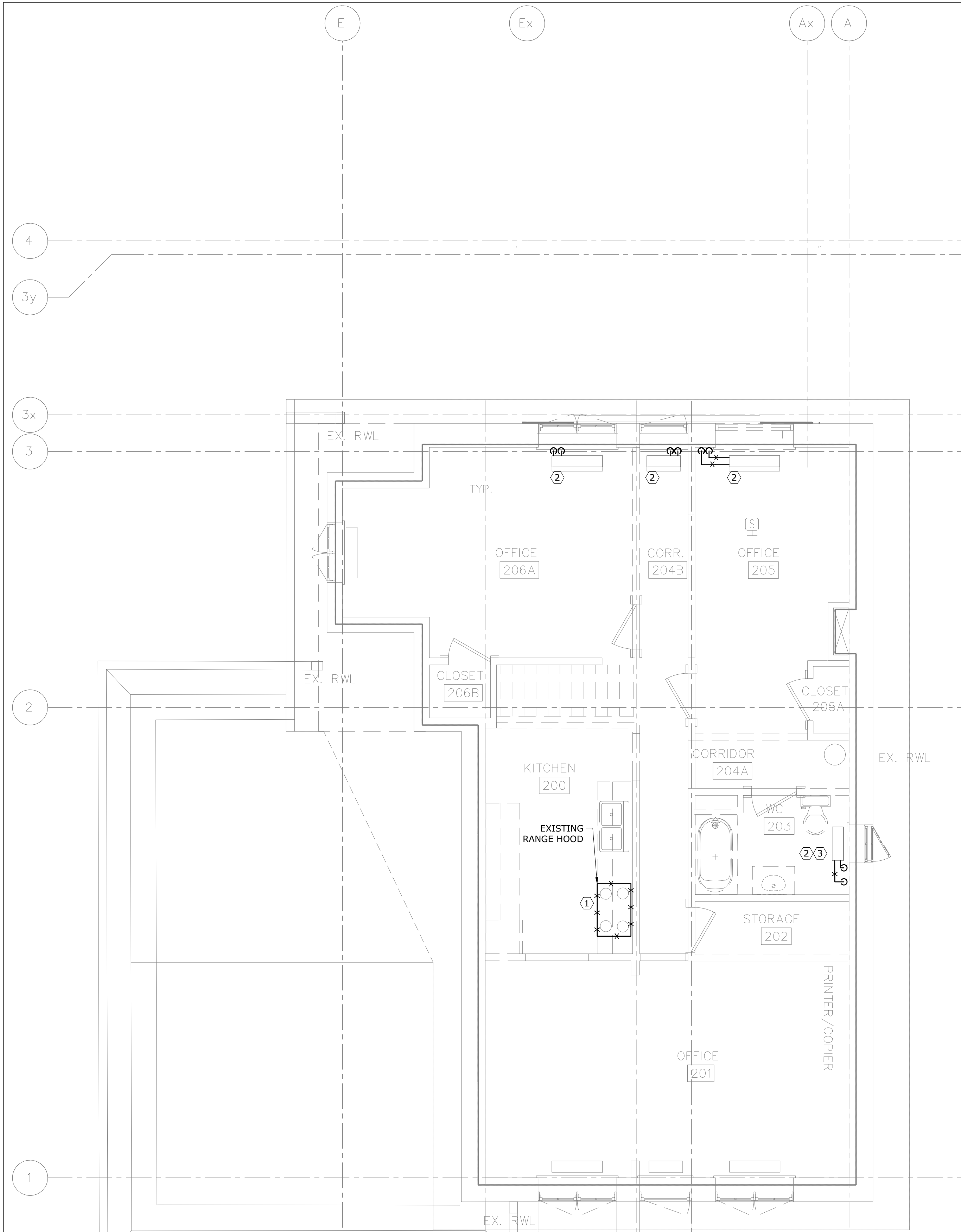
1. THESE GENERAL NOTES APPLY TO ALL DEMOLITION DRAWINGS.
2. DISCONNECT EXISTING UNUSED EQUIPMENT FROM POWER SUPPLY AND MAKE SAFE.
3. PRIOR TO COMMENCING THE DEMOLITION WORK, EXAMINE SITE CAREFULLY INCLUDING ALL THE ELEMENTS THAT NEED TO BE REMOVED.
4. REMOVE ALL ABANDONED PIPES, HANGERS, INSERTS, CONDUITS, DUCTS, AND SERVICES.
5. SEAL AND FIRESTOP (IF NECESSARY) ALL AFFECTED AREAS TO MATCH EXISTING.
6. CONTRACTOR TO CLEAN ALL DEBRIS AND RUBBISH GENERATED FROM THIS WORK.
7. CONTRACTOR TO REPAIR ANY DAMAGE CAUSED BY THIS WORK AND MAKE GOOD TO MATCH EXISTING.
8. CONTRACTOR SHALL REPAIR UNUSED FLOOR AND WALL OPENINGS AT ALL PENETRATIONS OF DEMOLISHED WORK. REPAIRS SHALL MATCH EXISTING CONDITION AND FINISHES.

DEMOLITION GENERAL NOTES: (CONTINUED)

9. DRAIN ALL AFFECTED SYSTEMS AS REQUIRED AND REFILL AFTER WORK IS COMPLETE. REFER TO SPECIFICATIONS FOR SPECIFIC PIPE FLUSHING MATERIALS AND PROCEDURES.
10. ALL EXISTING SYSTEM ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR IS RESPONSIBLE TO SITE VERIFY EXACT LOCATION OF EQUIPMENT AND POINT OF CONNECTION TO EXISTING AS REQUIRED.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR DISASSEMBLY AND CUTTING OF ALL EQUIPMENT/MATERIAL TO ALLOW FOR REMOVAL FROM SITE.

REFERENCE NOTES:

- ① EXISTING RANGE HOOD, DUCTWORK AND ASSOCIATED ACCESSORIES TO BE DEMOLISHED AND REMOVED AS SHOWN. EXISTING VENT TO REMAIN.
- ② EXISTING RADIATOR (TYP. OF 4) TO BE RELOCATED AND ASSOCIATED HWS AND HWR PIPING TO BE DEMOLISHED AS SHOWN.
- ③ ALL EXISTING HWS AND HWR PIPING AND ASSOCIATED ACCESSORIES TO BE DEMOLISHED AND REMOVED. EXISTING CAST IRON RADIATORS TO REMAIN AS INDICATED, SEE DETAILS ON M-1000.



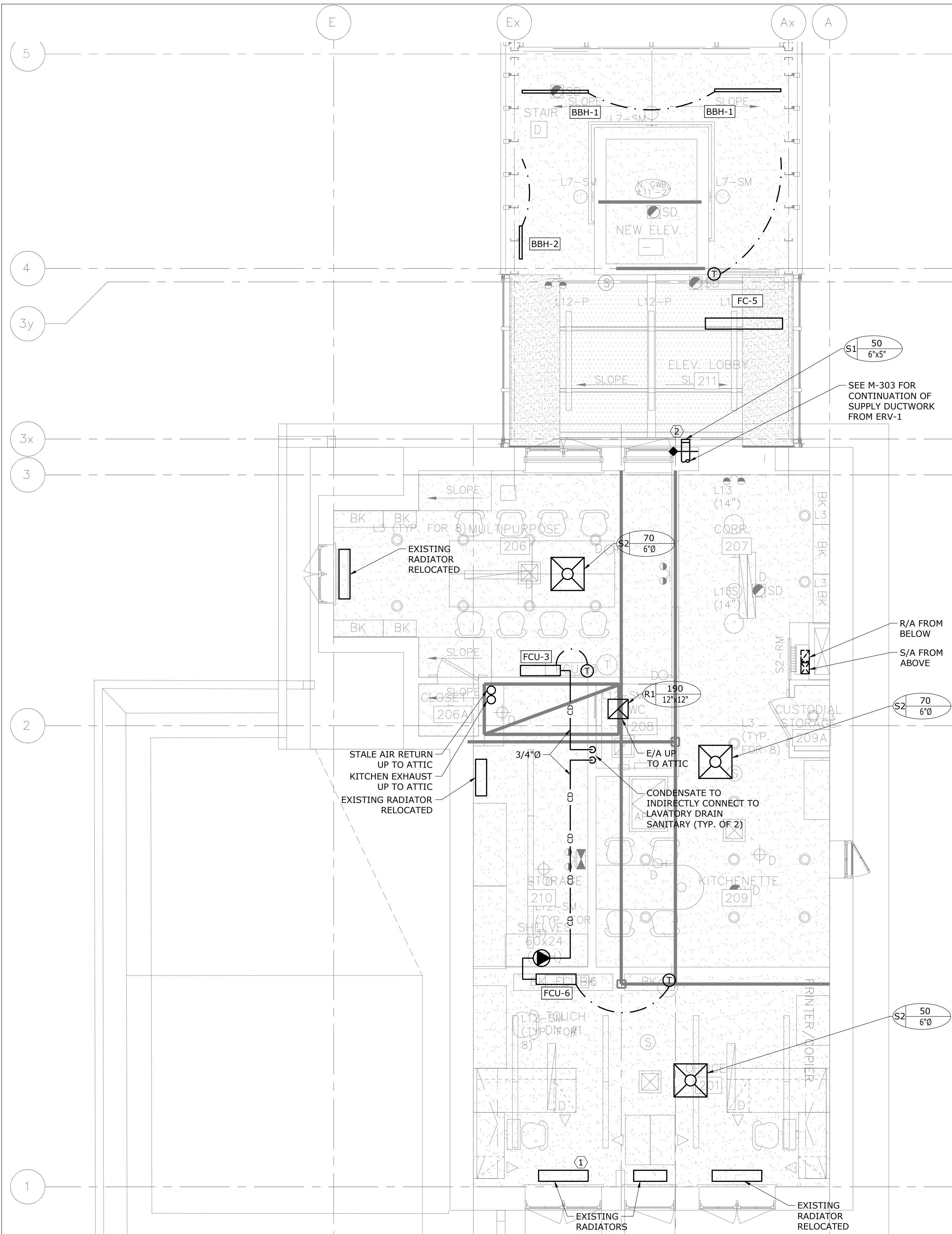
1 SECOND FLOOR - HVAC - DEMOLITION
M-302 SCALE: 1/4" = 1'-0"

HVAC GENERAL NOTES:

1. THESE GENERAL NOTES APPLY TO ALL HVAC DRAWINGS.
2. ALL CONTROLS WORK TO BE COMPLETED BY CONTROLS CONTRACTOR.
3. EXISTING GRILLES AND DIFFUSERS TO REMAIN UNLESS OTHERWISE INDICATED.
4. PROVIDE NEW DUCTWORK, DIFFUSERS AND GRILLES AS REQUIRED AND/OR INDICATED.
5. PROVIDE NEW EQUIPMENT AND ALL ASSOCIATED ACCESSORIES AS REQUIRED TO COMPLETE A FULLY FUNCTIONING SYSTEM.
6. ALL GRILLE AND DIFFUSER LOCATIONS ARE TO BE COORDINATED WITH FINAL ARCHITECTURAL REFLECTED CEILING PLAN.
7. BALANCE ALL DIFFUSERS, GRILLES, AND OPEN ENDED DUCTS TO THE AIRFLOW INDICATED ON THE DRAWINGS.

REFERENCE NOTES:

- ① ALL RADIATORS TO BE REMOVED AND RE-INSTALLED AS REQUIRED TO ACCOMMODATE ABATEMENT. RADIATORS ARE ALSO TO BE BRUSHED DOWN, RE-PAINTED AND FINISH TO BE COORDINATED WITH THE ARCHITECT.
- ② SUPPLY DUCTWORK TO BE INSULATED AND RUN IN THE CEILING SPACE. SUPPLY GRILLE TO BE AT HIGH LEVEL AND REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATION. REFER TO 1/M-303 FOR FULL DUCT RUN.



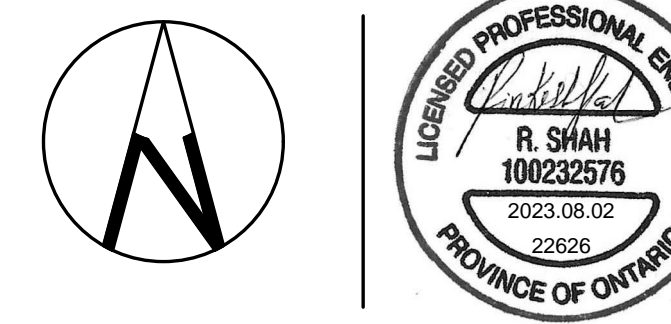
2 SECOND FLOOR - HVAC - MODIFICATION
M-302 SCALE: 1/4" = 1'-0"

DO NOT SCALE DRAWINGS.
CONTRACTOR MUST VERIFY ALL DIMENSIONS AND ADVISE CONSULTANTS
OF ANY ERRORS OR OMISSIONS.
NO VARIATIONS OR MODIFICATIONS TO WORK SHOWN SHALL BE
IMPLEMENTED WITHOUT PRIOR WRITTEN APPROVAL.
ALL PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED BY THE
LATEST REVISION.
ALL DRAWINGS AND SPECIFICATIONS REMAIN THE PROPERTY OF
MAT 4SITE ENGINEERS LTD.

5	2023/08/04	ISSUED FOR PERMIT/TENDER
4	2023/07/12	ISSUED FOR 95% REVIEW
3	2023/06/02	ISSUED FOR 50% CD REVIEW
2	2023/04/26	ISSUED FOR 100% DD REVIEW
1	2023/04/10	ISSUED FOR 50% REVIEW

No.	Date	Action
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620 WILSON AVE., SUITE 300, TORONTO, ON M6K 1Z3
PHONE: 416-229-6574 FAX: 416-229-4105



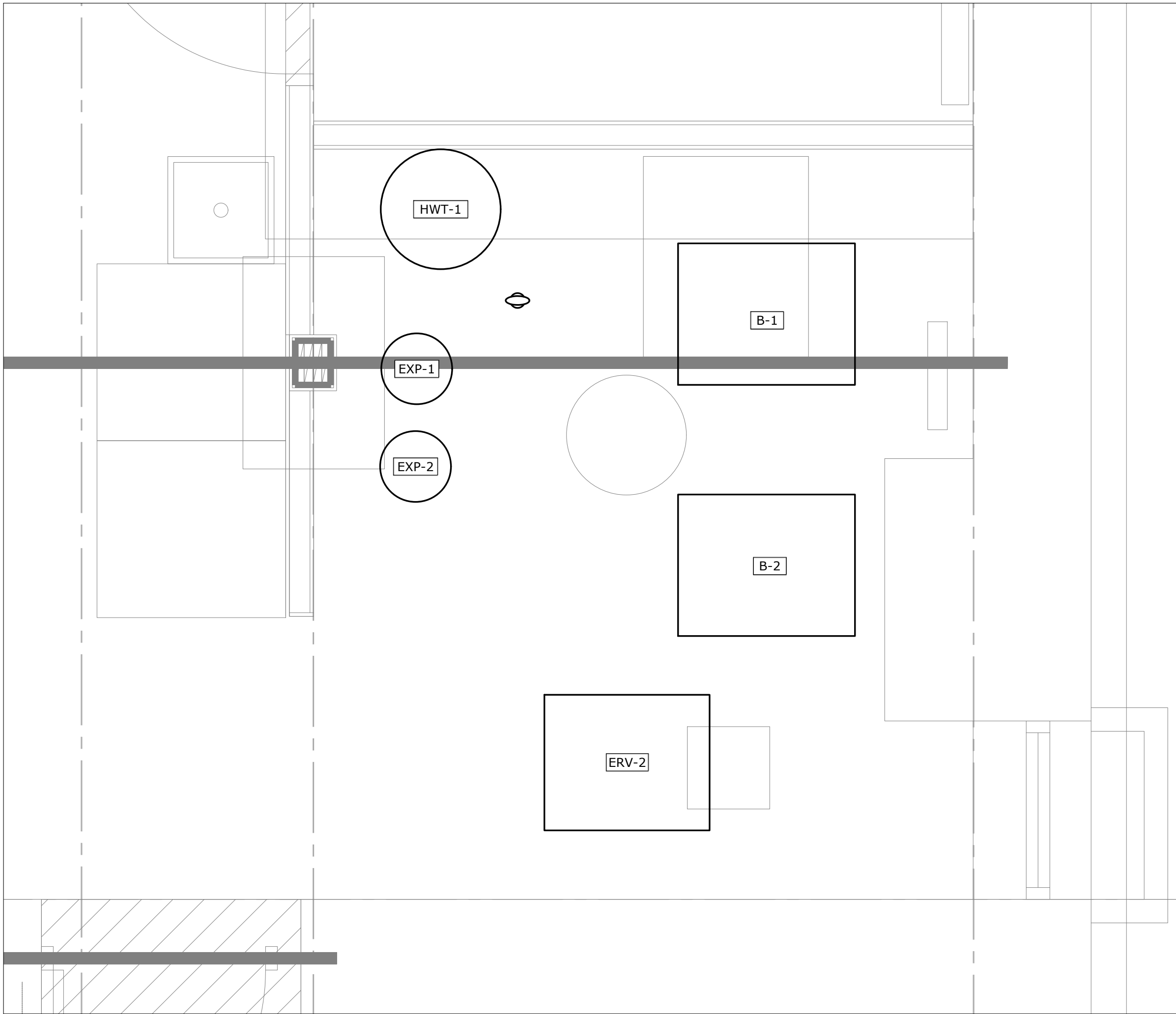
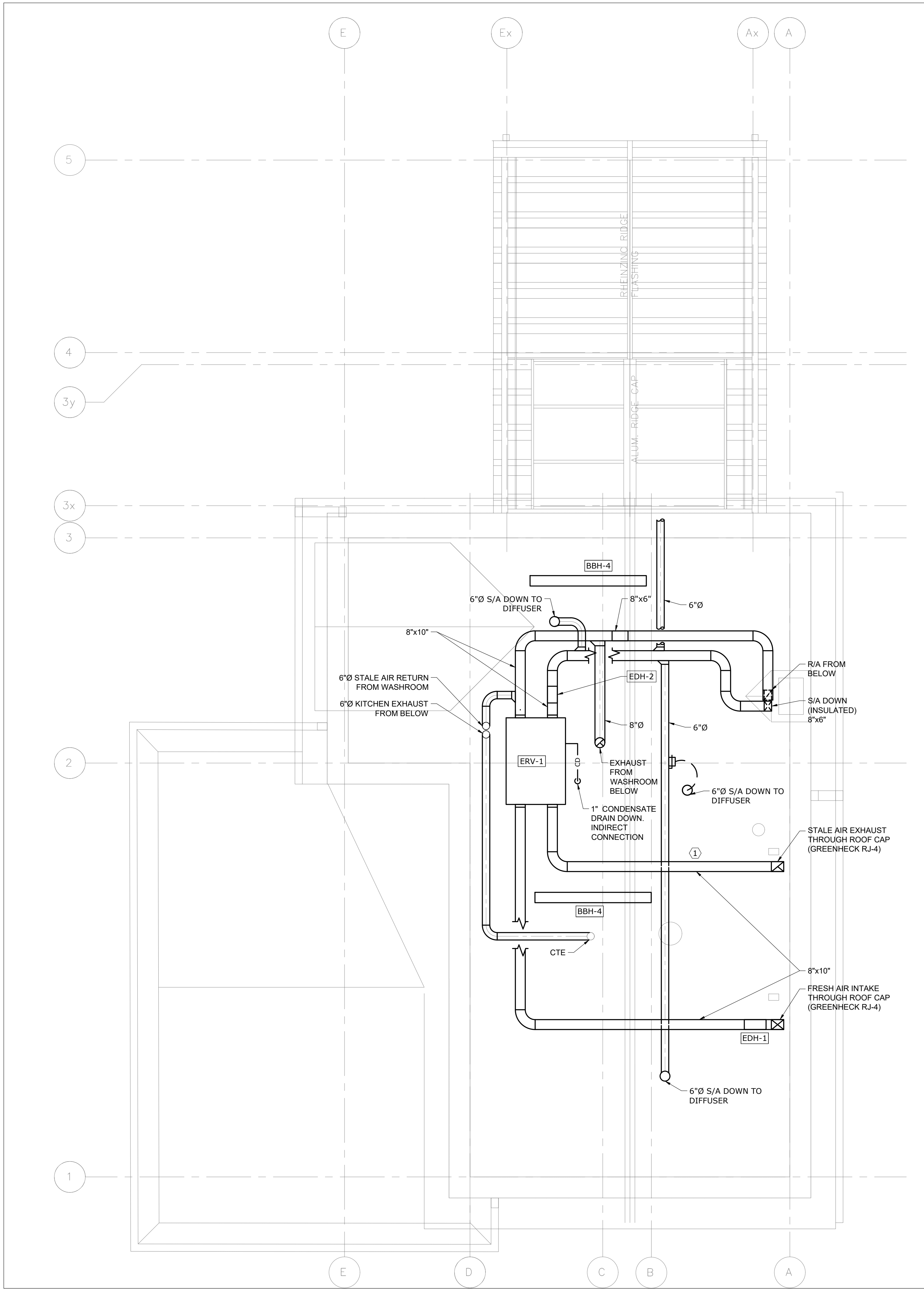
Orientation Stamp

Project Name and Address:
**SPADINA MUSEUM
GARAGE REHABILITATION AND
SITE ACCESSIBILITY**
285 SPADINA RD,
TORONTO, ON M5R2V5

Drawing title
**SECOND FLOOR - HVAC -
DEMOLITION AND
MODIFICATION**

Scale: 1/4" = 1'-0"	Project No. 22626
Designer: S.N.	Date: 2023/01/25
Drawn by: S.N.	Checked by: R.S.
Drawing file: 22626-M	Client Approval

Revision No. 0	Drawing No. M-302
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- HVAC GENERAL NOTES:**
1. THESE GENERAL NOTES APPLY TO ALL HVAC DRAWINGS.
 2. ALL CONTROLS WORK TO BE COMPLETED BY CONTROLS CONTRACTOR.
 3. EXISTING GRILLES AND DIFFUSERS TO REMAIN UNLESS OTHERWISE INDICATED.
 4. PROVIDE NEW DUCTWORK, DIFFUSERS AND GRILLES AS REQUIRED AND/OR INDICATED.
 5. PROVIDE NEW EQUIPMENT AND ALL ASSOCIATED ACCESSORIES AS REQUIRED TO COMPLETE A FULLY FUNCTIONING SYSTEM.
 6. ALL GRILLE AND DIFFUSER LOCATIONS ARE TO BE COORDINATED WITH FINAL ARCHITECTURAL REFLECTED CEILING PLAN.
 7. BALANCE ALL DIFFUSERS, GRILLES, AND OPEN ENDED DUCTS TO THE AIRFLOW INDICATED ON THE DRAWINGS.

- REFERENCE NOTES:**
- ① ALL DUCTWORK TO BE ACOUSTICALLY LINED AND THERMALLY INSULATED IN THE ATTIC.

DO NOT SCALE DRAWINGS. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND ADVISE CONSULTANTS OF ANY ERRORS OR OMISSIONS. NO VARIATIONS OR MODIFICATIONS TO WORK SHOWN SHALL BE IMPLEMENTED WITHOUT PRIOR WRITTEN APPROVAL. ALL PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED BY THE LATEST REVISION. ALL DRAWINGS AND SPECIFICATIONS REMAIN THE PROPERTY OF MAT 4SITE ENGINEERS LTD.

5	2023/08/04	ISSUED FOR PERMIT/TENDER
4	2023/07/12	ISSUED FOR 95% REVIEW
3	2023/06/02	ISSUED FOR 50% CD REVIEW
2	2023/04/26	ISSUED FOR 100% DD REVIEW
1	2023/04/10	ISSUED FOR 50% REVIEW
No.	Date	Action



Orientation Stamp

Project Name and Address:

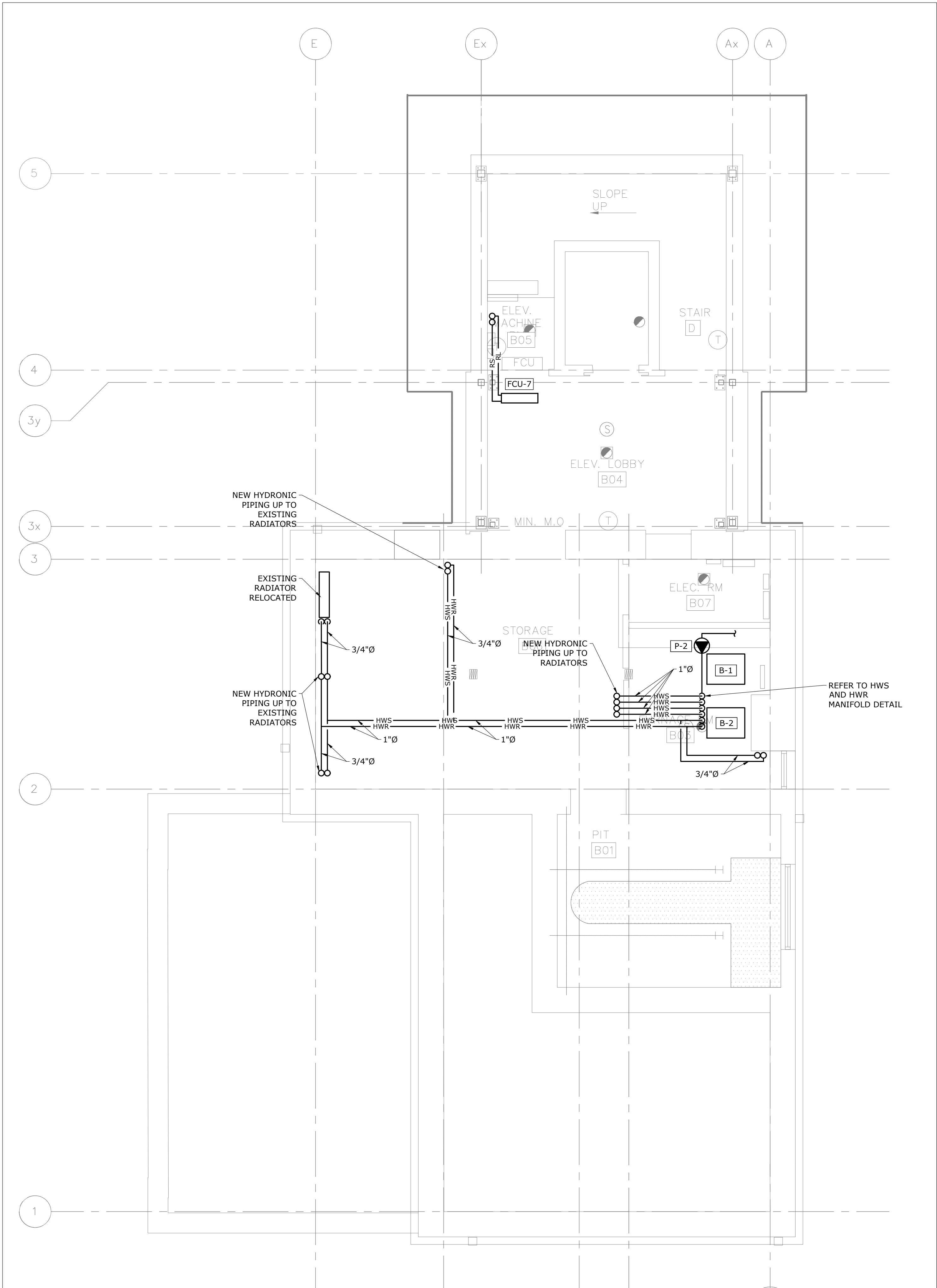
**SPADINA MUSEUM
GARAGE REHABILITATION AND
SITE ACCESSIBILITY**
285 SPADINA RD,
TORONTO, ON M5R2V5

Drawing title

**ATTIC – HVAC –
MODIFICATION & BASEMENT
MECHANICAL ROOM**

Scale: N.T.S.	Project No. 22626
Designer: S.N.	Date: 2023/01/25
Drawn by: S.N.	Checked by: R.S.
Drawing file: 22626-M	Client Approval

Revision No.	Drawing No.
0	M-303

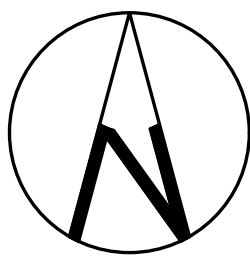


- HYDRONICS GENERAL NOTES:
1. THESE GENERAL NOTES APPLY TO ALL HYDRONICS DRAWINGS.
 2. ALL CONTROLS WORK TO BE COMPLETED BY CONTROLS CONTRACTOR.
 3. PROVIDE NEW RADIATORS, PIPING, VALVES, AND INSULATION AS REQUIRED AND/OR INDICATED.
 4. PROVIDE NEW EQUIPMENT AND ALL ASSOCIATED ACCESSORIES AS REQUIRED TO COMPLETE A FULLY FUNCTIONING SYSTEM.
 5. ALL RADIATOR LOCATIONS ARE TO BE COORDINATED WITH FINAL ARCHITECTURAL DRAWING PACKAGE.

DO NOT SCALE DRAWINGS. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND ADVISE CONSULTANTS OF ANY ERRORS OR OMISSIONS. NO VARIATIONS OR MODIFICATIONS TO WORK SHOWN SHALL BE IMPLEMENTED WITHOUT PRIOR WRITTEN APPROVAL. ALL PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED BY THE LATEST REVISION. ALL DRAWINGS AND SPECIFICATIONS REMAIN THE PROPERTY OF MAT 4SITE ENGINEERS LTD.

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1	2023/04/10	ISSUED FOR 50% REVIEW
No.	Date	Action

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400 WILSON AVE., SUITE 200, TORONTO, ON M5K 1Z3
PHONE: 416-229-6574 FAX: 416-229-4105



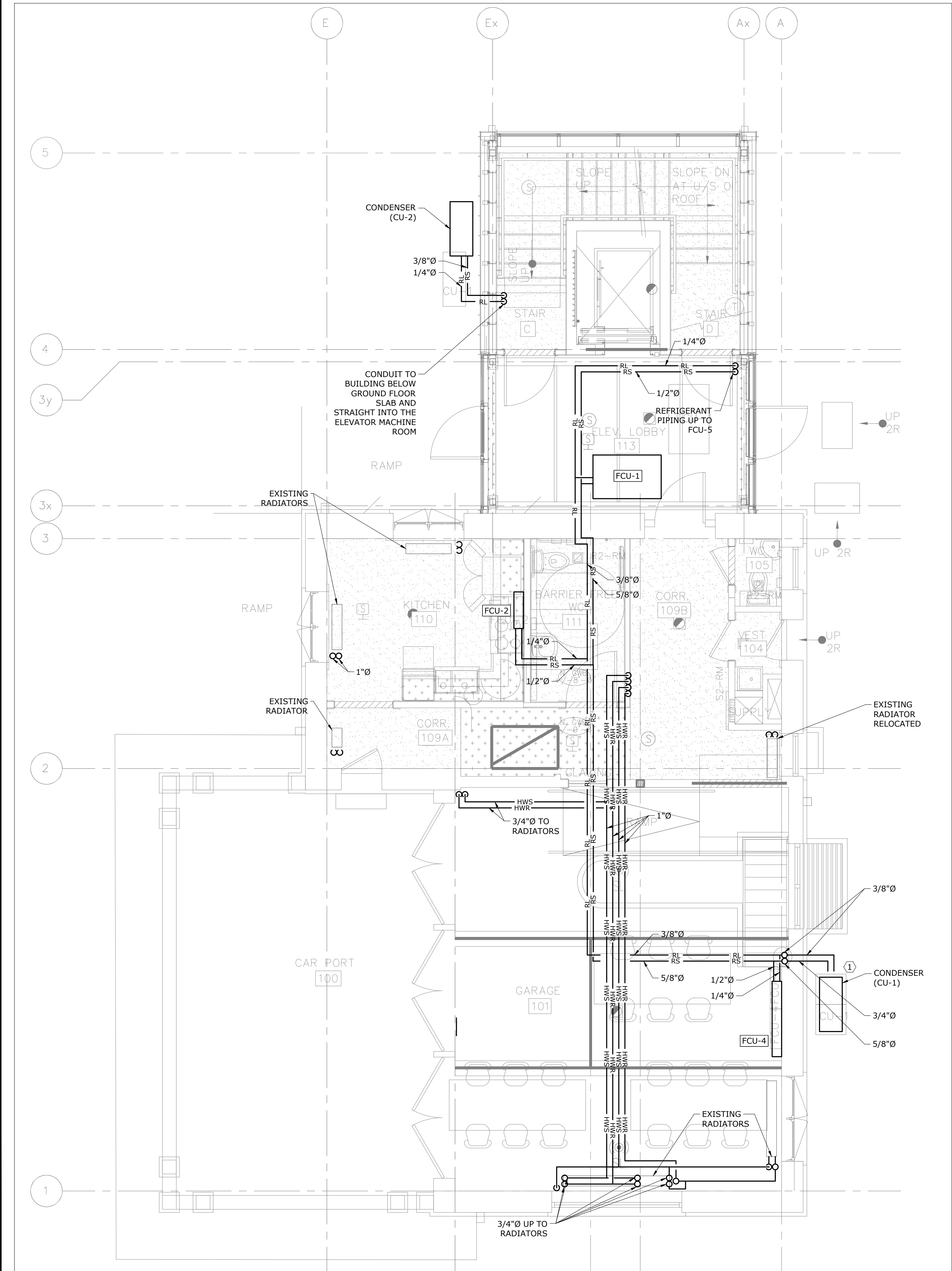
Orientation Stamp

Project Name and Address:
**SPADINA MUSEUM
GARAGE REHABILITATION AND
SITE ACCESSIBILITY**
285 SPADINA RD,
TORONTO, ON M5R2V5

Drawing title
**BASEMENT – HYDRONICS
– MODIFICATION**

Scale: 1/4" = 1'-0"	Project No. 22626
Designer: S.N.	Date: 2023/01/25
Drawn by: S.N.	Checked by: R.S.
Drawing file: 22626-M	Client Approval

Revision No.	Drawing No.
0	M-500

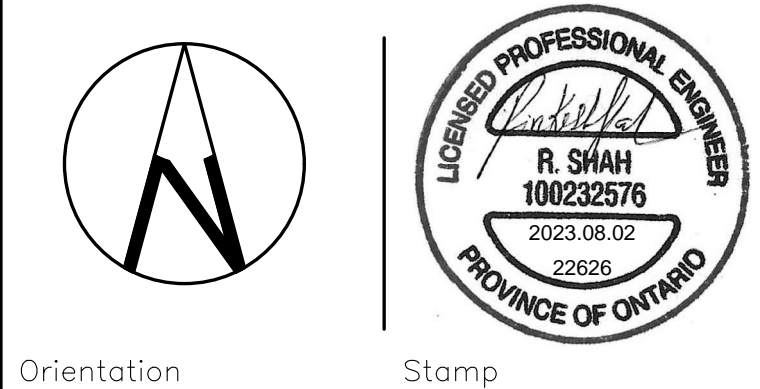


1 GROUND FLOOR - HYDRONICS - MODIFICATION
M-501 SCALE: 1/4" = 1'-0"

- HYDRONICS GENERAL NOTES:**
1. THESE GENERAL NOTES APPLY TO ALL HYDRONICS DRAWINGS.
 2. ALL CONTROLS WORK TO BE COMPLETED BY CONTROLS CONTRACTOR.
 3. PROVIDE NEW RADIATORS, PIPING, VALVES, AND INSULATION AS REQUIRED AND/OR INDICATED.
 4. PROVIDE NEW EQUIPMENT AND ALL ASSOCIATED ACCESSORIES AS REQUIRED TO COMPLETE A FULLY FUNCTIONING SYSTEM.
 5. ALL RADIATOR LOCATIONS ARE TO BE COORDINATED WITH FINAL ARCHITECTURAL DRAWING PACKAGE.

DO NOT SCALE DRAWINGS. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND ADVISE CONSULTANTS OF ANY ERRORS OR OMISSIONS. NO VARIATIONS OR MODIFICATIONS TO WORK SHOWN SHALL BE IMPLEMENTED WITHOUT PRIOR WRITTEN APPROVAL. ALL PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED BY THE LATEST REVISION. ALL DRAWINGS AND SPECIFICATIONS REMAIN THE PROPERTY OF MAT 4SITE ENGINEERS LTD.

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1	2023/04/10	ISSUED FOR 50% REVIEW
No.	Date	Action

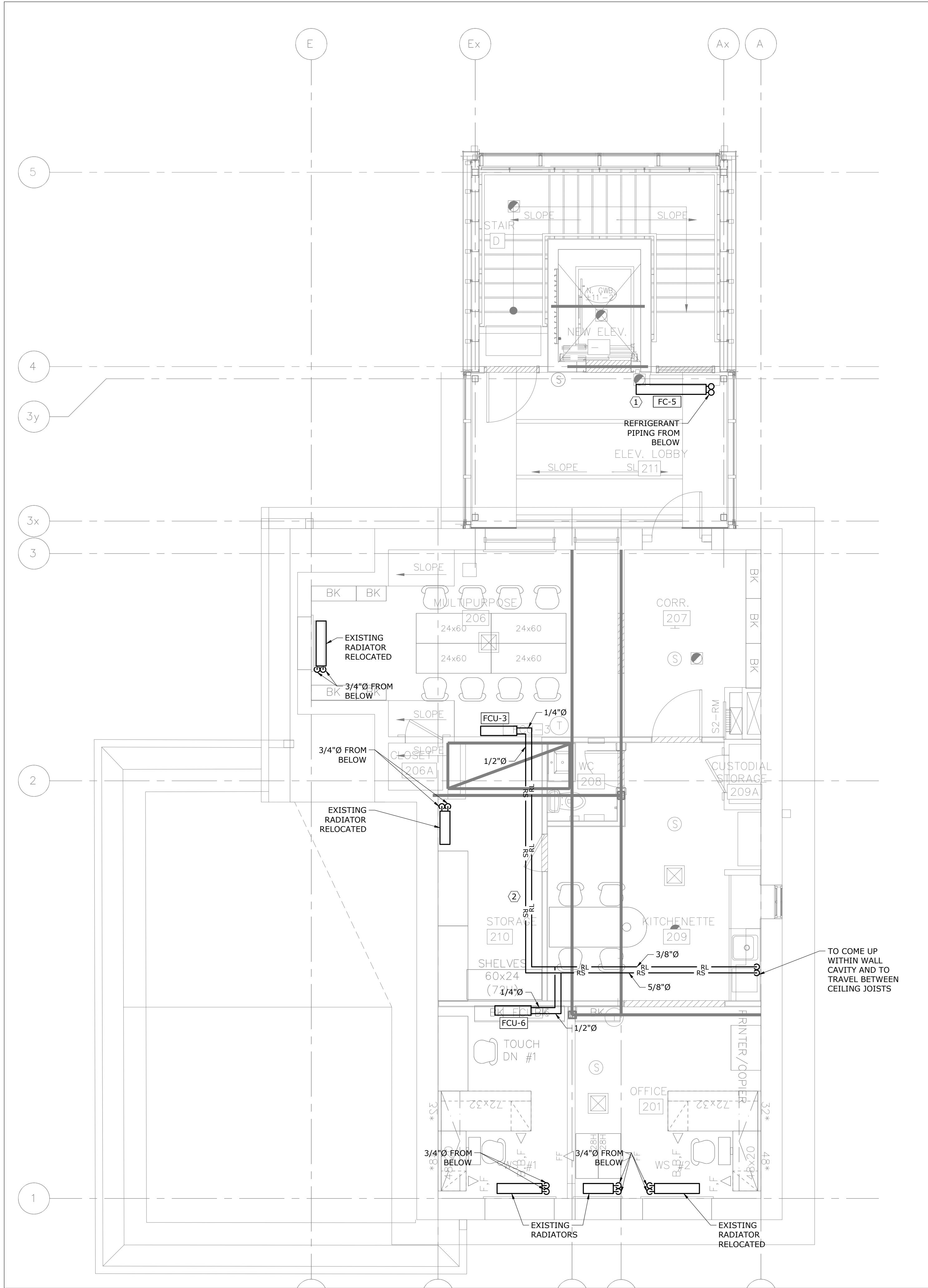


Project Name and Address:
**SPADINA MUSEUM
GARAGE REHABILITATION AND
SITE ACCESSIBILITY**
285 SPADINA RD,
TORONTO, ON M5R2V5

Drawing title
**GROUND FLOOR –
HYDRONICS –
MODIFICATION**

Scale: 1/4" = 1'-0"	Project No. 22626
Designer: S.N.	Date: 2023/01/25
Drawn by: S.N.	Checked by: R.S.
Drawing file: 22626-M	Client Approval

Revision No.	Drawing No.
0	M-501



1 SECOND FLOOR - HYDRONICS - MODIFICATION
M-502 SCALE: 1/4" = 1'-0"

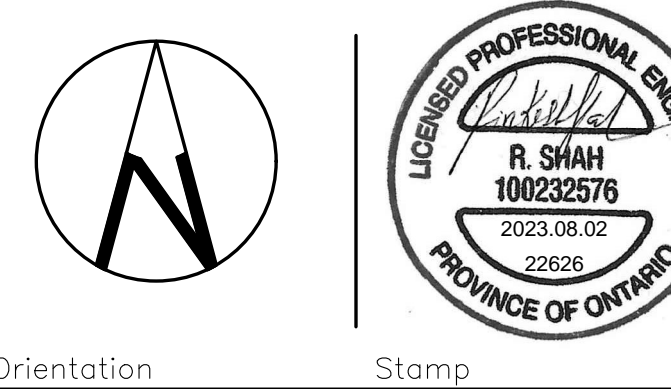
- HYDRONICS GENERAL NOTES:
1. THESE GENERAL NOTES APPLY TO ALL HYDRONICS DRAWINGS.
 2. ALL CONTROLS WORK TO BE COMPLETED BY CONTROLS CONTRACTOR.
 3. PROVIDE NEW RADIATORS, PIPING, VALVES, AND INSULATION AS REQUIRED AND/OR INDICATED.
 4. PROVIDE NEW EQUIPMENT AND ALL ASSOCIATED ACCESSORIES AS REQUIRED TO COMPLETE A FULLY FUNCTIONING SYSTEM.
 5. ALL RADIATOR LOCATIONS ARE TO BE COORDINATED WITH FINAL ARCHITECTURAL DRAWING PACKAGE.

- REFERENCE NOTES:
- ① CONCEAL REFRIGERANT PIPING WITHIN THE FCU-5.
 - ② RUN ALL REFRIGERANT PIPING IN THE ATTIC SPACE.

DO NOT SCALE DRAWINGS.
CONTRACTOR MUST VERIFY ALL DIMENSIONS AND ADVISE CONSULTANTS
OF ANY ERRORS OR OMISSIONS.
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2	2023/04/26	ISSUED FOR 100% DD REVIEW
1	2023/04/10	ISSUED FOR 50% REVIEW

No.	Date	Action
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Project Name and Address:
SPADINA MUSEUM
GARAGE REHABILITATION AND
SITE ACCESSIBILITY
285 SPADINA RD,
TORONTO, ON M5R2V5

Drawing title
SECOND FLOOR –
HYDRONICS –
MODIFICATION

Scale: 1/4" = 1'-0"	Project No. 22626
Designer: S.N.	Date: 2023/01/25
Drawn by: S.N.	Checked by: R.S.
Drawing file: 22626-M	Client Approval

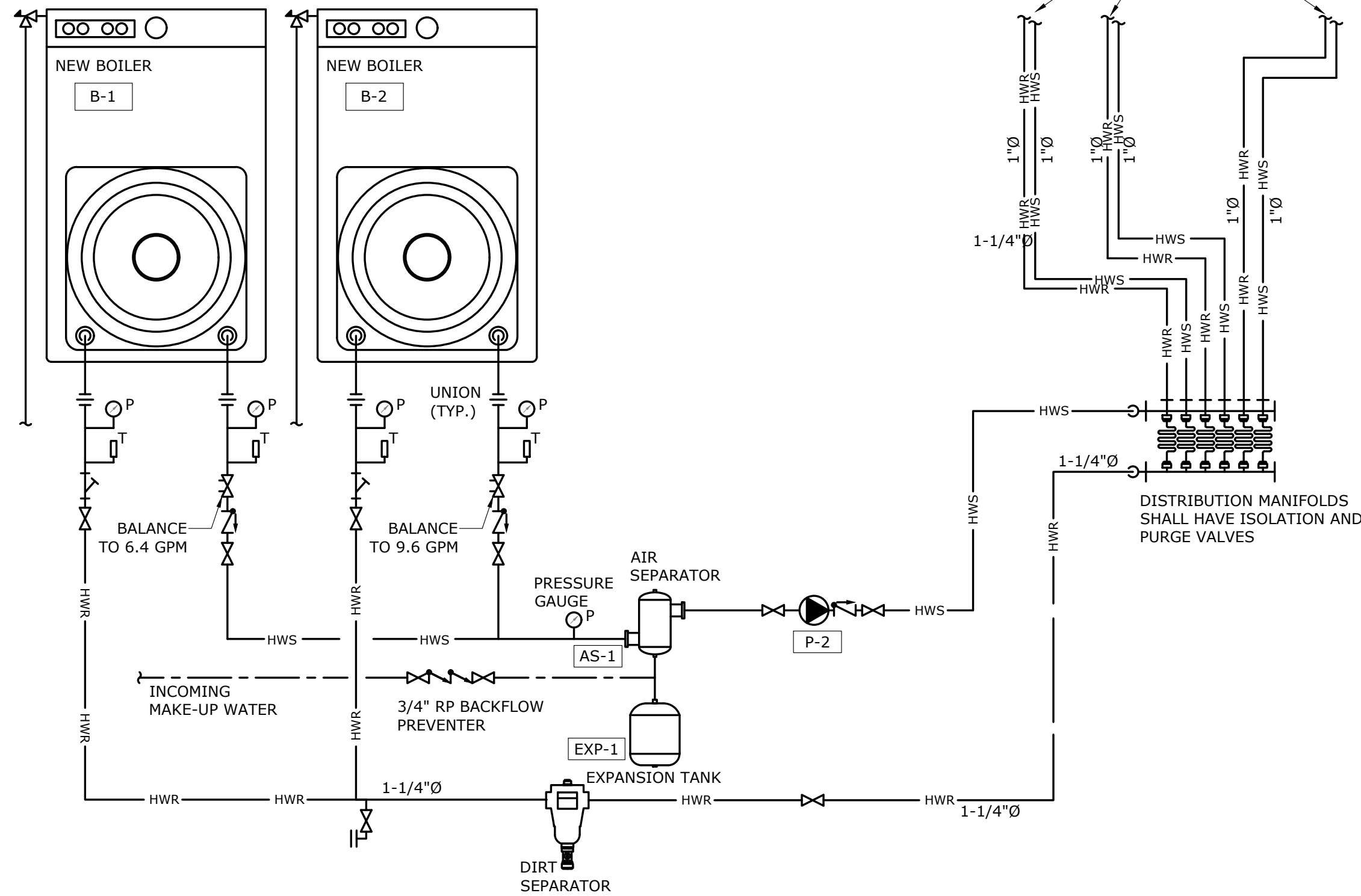
Revision No.	Drawing No.
0	M-502

DO NOT SCALE DRAWINGS.
CONTRACTOR MUST VERIFY ALL DIMENSIONS AND ADVISE CONSULTANTS
OF ANY ERRORS OR OMISSIONS.
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MAT 4SITE ENGINEERS LTD.

BOILER SHALL HAVE AN
ELECTRICAL DISCONNECT
SWITCH INSTALLED.
BOILER SHALL HAVE OUTDOOR
TEMPERATURE SENSOR
INSTALLED ON NORTH SIDE OF
BUILDING AWAY FROM
POTENTIAL HEAT SOURCES.

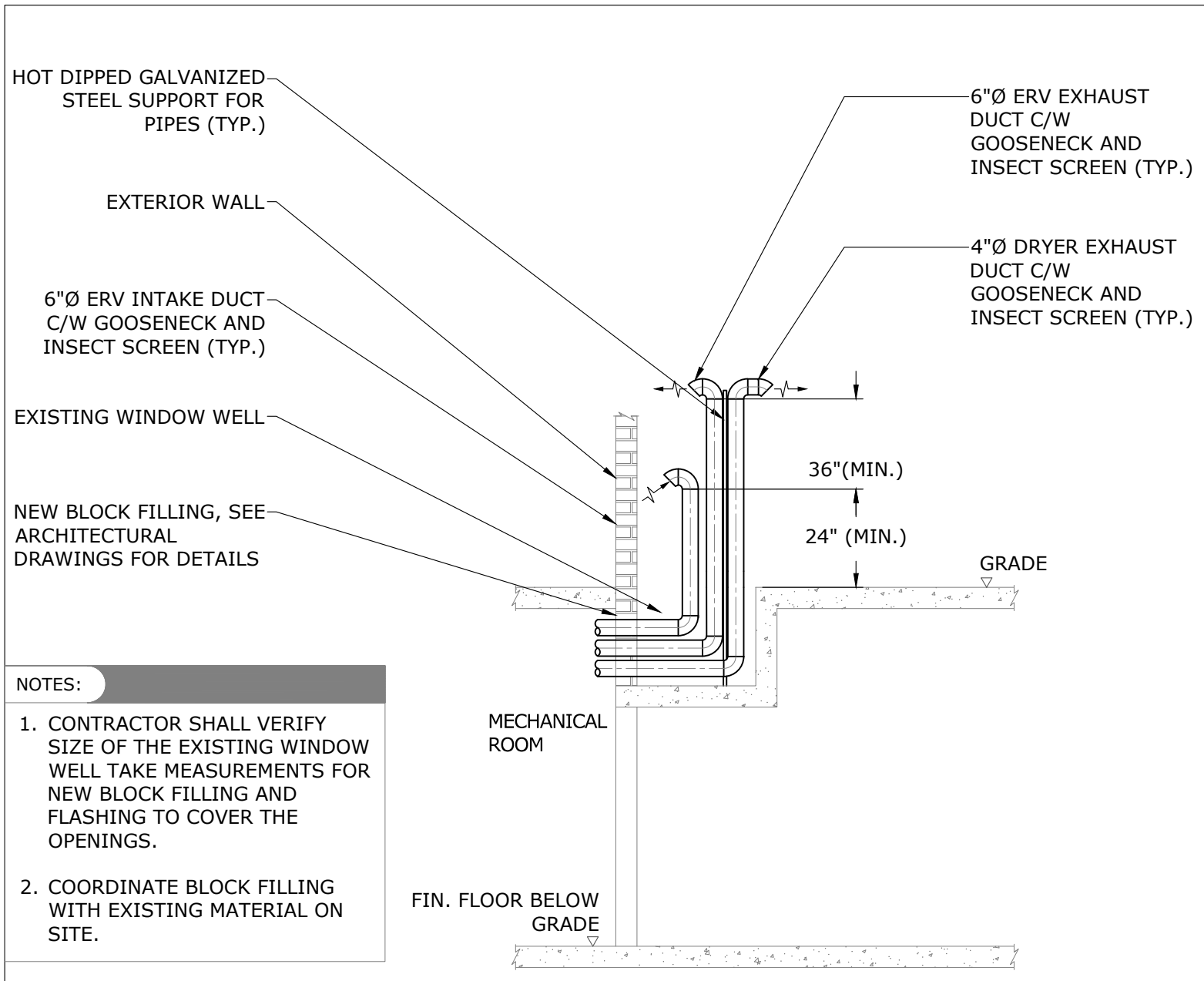
ALL RADIATORS TO BE
COMPLETE WITH DIVERTER
PANEL RADIATORS VALVE WITH
ADJUSTABLE BYPASS.

ALL RADIATORS SHALL BE
FITTED WITH TRV'S
TO FEED RADIATORS SEE
LAYOUT FOR LOCATIONS



1 BOILER SCHEMATIC

SCALE: N.T.S.



- NOTES:
- CONTRACTOR SHALL VERIFY
SIZE OF THE EXISTING WINDOW
WELL TAKE MEASUREMENTS FOR
NEW BLOCK FILLING AND
FLASHING TO COVER THE
OPENINGS.
 - COORDINATE BLOCK FILLING
WITH EXISTING MATERIAL ON
SITE.

2 ERV INTAKE, ERV AND DRYER EXHAUST SCHEMATIC

SCALE: N.T.S.

MAT 4SITE ENGINEERS LTD.
420 WILSON AVE., SUITE 200, TORONTO, ON M3K 1Z3
PHONE: 416-229-6574 FAX: 416-229-4105



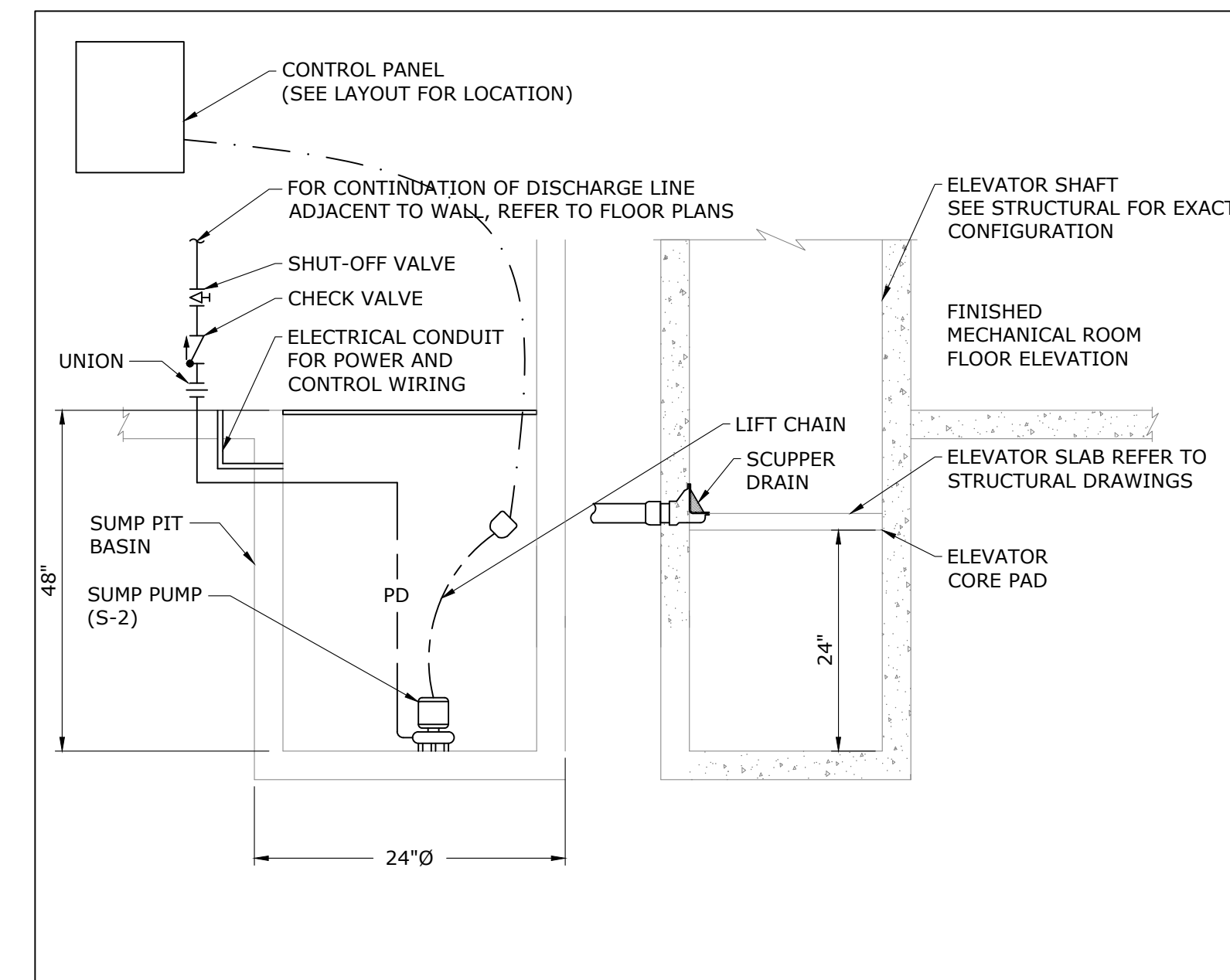
Orientation Stamp

Project Name and Address:
**SPADINA MUSEUM
GARAGE REHABILITATION AND
SITE ACCESSIBILITY**
285 SPADINA RD,
TORONTO, ON M5R2V5

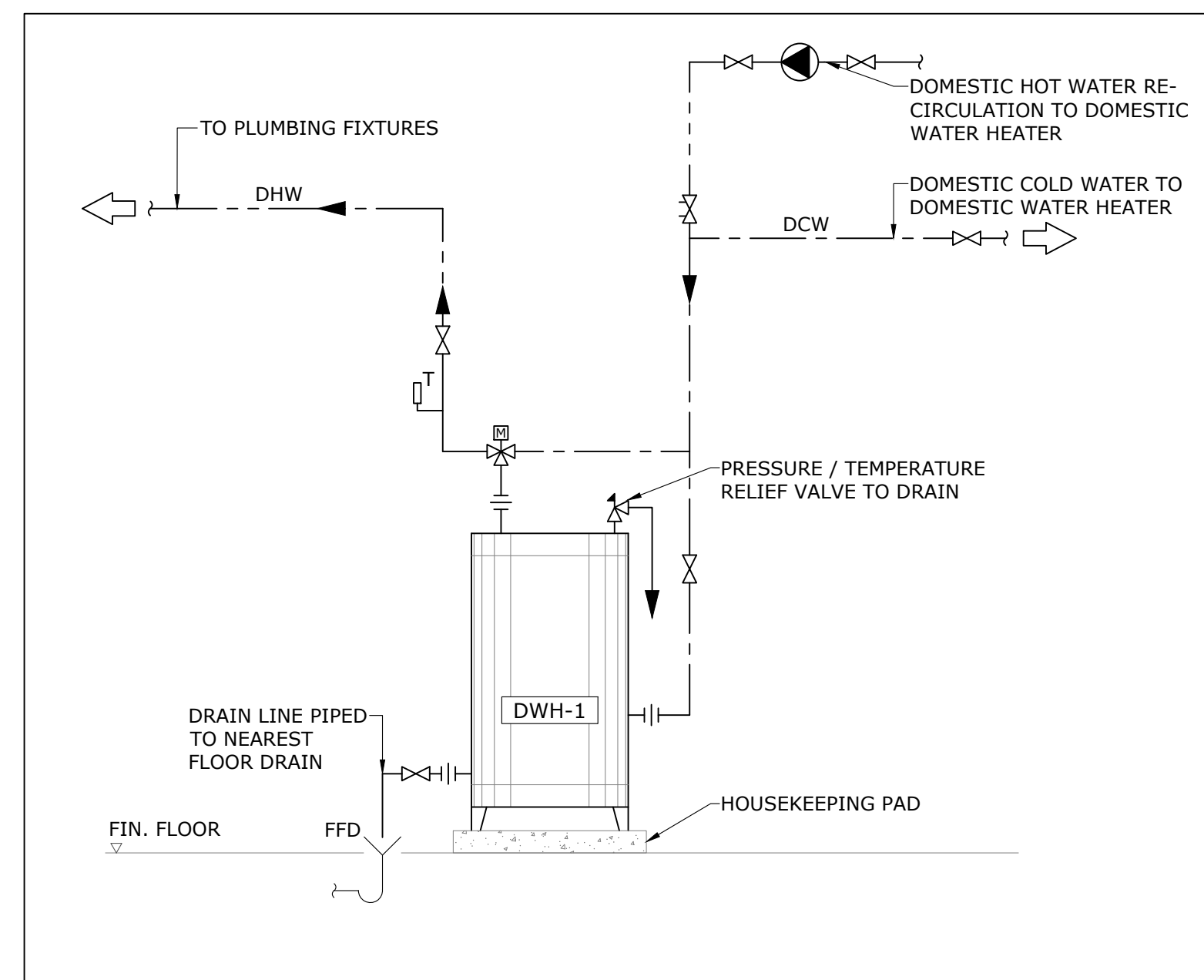
Drawing title
SCHEMATICS

Scale: N.T.S.	Project No. 22626
Designer: S.N.	Date: 2023/01/25
Drawn by: S.N.	Checked by: R.S.
Drawing file: 22626-M	Client Approval

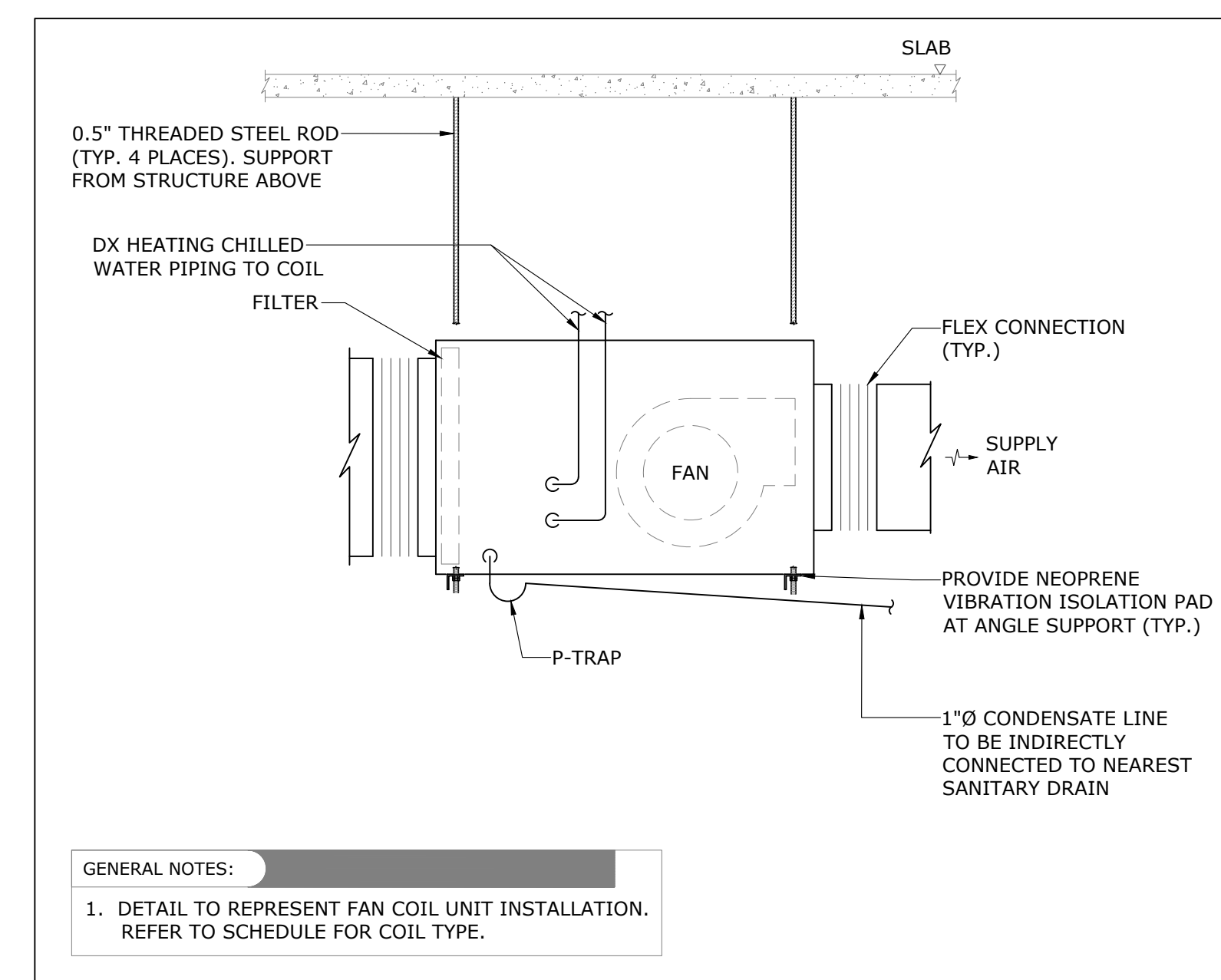
Revision No. 0	Drawing No. M-800
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2 ELEVATOR SUMP PIT DETAIL
M-1000 SCALE: N.T.S.



4 ELECTRIC DOMESTIC WATER HEATER DETAIL
M-1000 SCALE: N.T.S.



8 SUSPENDED FAN COIL UNIT INSTALLATION DETAIL
M-1000 SCALE: N.T.S.

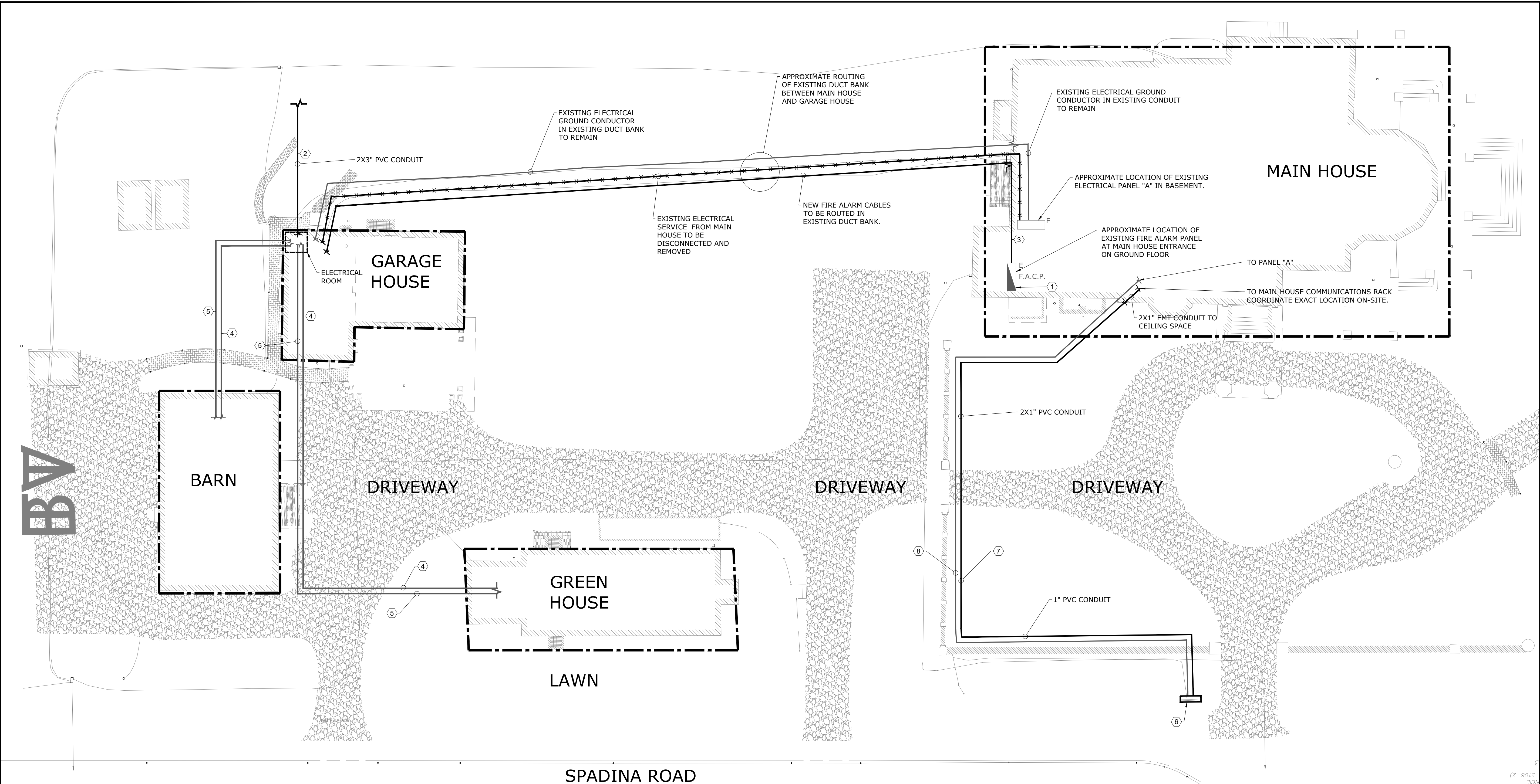
5	2023/08/04	ISSUED FOR PERMIT/TENDER
4	2023/07/12	ISSUED FOR 95% REVIEW
3	2023/06/02	ISSUED FOR 50% CD REVIEW
2	2023/04/26	ISSUED FOR 100% DD REVIEW
1	2023/04/10	ISSUED FOR 50% REVIEW
No. Date		Action

Orientation	Stamp
Project Name and Address:	
<p>SPADINA MUSEUM GARAGE REHABILITATION AND SITE ACCESSIBILITY 285 SPADINA RD, TORONTO, ON M5R2V5</p>	

Drawing title
DETAILS

Scale: N.T.S.	Project No. 22626
Designer: S.N.	Date: 2023/01/25
Drawn by: S.N.	Checked by: R.S.
Drawing file:	Client Approval

Revision No.	Drawing No.
0	M-1000



DO NOT SCALE DRAWINGS. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND ADVISE CONSULTANTS OF ANY ERRORS OR OMISSIONS. NO VARIATIONS OR MODIFICATIONS TO WORK SHOWN SHALL BE IMPLEMENTED WITHOUT PRIOR WRITTEN APPROVAL. ALL PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED BY THE LATEST REVISION. ALL DRAWINGS AND SPECIFICATIONS REMAIN THE PROPERTY OF MAT 4SITE ENGINEERS LTD.

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1	2023/04/10	ISSUED FOR 50% DD
No.	Date	Action

MAT 4SITE ENGINEERS LTD.
620 WILSON AVE., SUITE 320, TORONTO, ON M6K 1Z3
PHONE: 416-229-6574 FAX: 416-229-4105

Orientation

Stamp

Project Name and Address:
**SPADINA MUSEUM
GARAGE REHABILITATION AND
SITE ACCESSIBILITY**
285 SPADINA RD,
TORONTO, ON M5R2V5

Drawing title
SITE PLAN – ELECTRICAL

Scale: N.T.S.	Project No. 22626
Designer: N.J.	Date: 2023/01/25
Drawn by: R.A.	Checked by: R.M.
Drawing file: 22626–E	Client Approval
Revision No. 0	Drawing No. E–101

1 SITE PLAN - POWER & SYSTEMS - MODIFICATION
E-101 NTS

- POWER - GENERAL NOTES:
- THESE GENERAL NOTES APPLY TO ALL POWER DRAWINGS.
 - ALL MODIFICATIONS TO THE FIRE ALARM SYSTEM SHALL BE COMPLETED BY THE BASE BUILDING FIRE ALARM CONTRACTOR/VENDOR/MANUFACTURER. NEW FIRE ALARM DEVICES SHALL MATCH EXISTING. CONNECT NEW FIRE ALARM DEVICES TO EXISTING CIRCUITS WITH SPARE CAPACITY. PROVIDE NEW FIRE ALARM CIRCUITS AS REQUIRED. ALLOW FOR ALL ASSOCIATED COSTS AND ADDITIONAL COMPONENTS INCLUDING, BUT NOT LIMITED TO; ASSOCIATED EQUIPMENT, DEVICES, PROGRAMMING, TESTING, AND VERIFICATION TO MAKE SYSTEM OPERATIONAL AND CODE COMPLIANT. FIRE ALARM SYSTEM SHALL BE INSTALLED AS PER LATEST EDITION OF CAN/ULC-S524. FIRE ALARM VERIFICATION SHALL BE COMPLETED AS PER LATEST EDITION OF CAN/ULC-S537.
 - REWORK AND EXTEND EXISTING FEEDERS, CONDUITS AND JUNCTION BOXES AS REQUIRED TO ACCOMMODATE NEW INSTALLATIONS.
 - REFER TO ARCHITECT'S/INTERIOR DESIGNER'S DRAWINGS FOR MOUNTING HEIGHTS AND COVERPLATE COLOURS.
 - ALLOW FOR SCANNING, X-RAY, AND CORING AS REQUIRED.
 - CONFIRM EXACT POWER REQUIREMENTS AND RECEPTACLE TYPES FOR SPECIAL EQUIPMENT WITH MANUFACTURER PRIOR TO INSTALL. PROVIDE HARDWIRE CONNECTION IN LIEU OF RECEPTACLES OR VICE VERSA, AS REQUIRED.
 - CONFIRM ELECTRICAL REQUIREMENTS AND EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR PRIOR ROUGH-INS. REFER TO MECHANICAL SHOP DRAWINGS FOR MANUFACTURER'S ELECTRICAL DATA AND INSTALLATION REQUIREMENTS. ADVISE CONSULTANT OF ANY DISCREPANCIES.
 - ALL FINAL CONNECTIONS TO MECHANICAL EQUIPMENT SHALL BE IN LIQUID TIGHT FLEXIBLE CONDUIT.
 - ROUTE ALL CONDUIT SYSTEMS AROUND DUCT WORK, BEAMS, AND PIPING AS REQUIRED TO ACCOMMODATE LAYOUT SHOWN.
 - PROVIDE LABELS FOR ALL RECEPTACLES TO IDENTIFY THE CIRCUIT FEEDING THE RECEPTACLE.
 - PROVIDE UPDATED, TYPE-WRITTEN PANEL DIRECTORIES AFTER COMPLETION OF WORK.

- REFERENCE NOTES:
- EXISTING FIRE ALARM PANEL "MIRCOM FX-2000". CONTRACTOR IS RESPONSIBLE TO SUPPLY AND INSTALL ALL NECESSARY MODULES TO ACCOMMODATE NEW FIRE ALARM DEVICES FROM GARAGE HOUSE.
 - NEW 120/208V INCOMING SERVICE FROM OVERHEAD HYDRO LINE TO NEW DISTRIBUTION PANEL DP-G IN BASEMENT.
 - NEW FIRE ALARM CABLING IN EXISTING CONDUITS IN CEILING SPACE TO MAIN HOUSE FIRE ALARM PANEL.
 - EXISTING SECURITY CABLING/CONDUITS FROM GARAGE HOUSE INTRUSION PANEL TO GREEN HOUSE AND BARN, ARE TO REMAIN.
 - EXISTING POWER CABLING/CONDUITS FROM GARAGE HOUSE MAIN ELECTRICAL PANEL TO GREEN HOUSE AND BARN TO SUIT NEW WORK.
 - NEW DIGITAL SIGNAGE PROVIDED BY OTHERS. KEEP EXISTING POWER CABLES AND CONDUITS, CONNECT NEW SIGNAGE TO THESE EXISTING CABLES, TERMINATE AS REQUIRED.
 - NEW UNDER GROUND COMMUNICATIONS CABLES AND CONDUITS FOR DIGITAL SIGNAGE. COORDINATE EXACT ROUTING OUTDOOR AND INSIDE MAIN-HOUSE ON SITE.
 - EXISTING POWER CABLES AND CONDUITS FOR DIGITAL SIGNAGE TO REMAIN

- FIRE ALARM NOTES:
- PROVIDE ADDITIONAL ANNUNCIATION ZONES FOR A GARAGE HOUSE:
- BASEMENT DEVICES ALARM
 - BASEMENT DEVICES TROUBLE
 - GROUND FLOOR DEVICES ALARM
 - GROUND FLOOR DEVICES TROUBLE
 - SECOND FLOOR DEVICES ALARM
 - SECOND FLOOR DEVICES TROUBLE
 - STAIR ALARM
 - STAIR TROUBLE
 - ELEVATOR SHAFT ALARM
 - ELEVATOR SHAFT TROUBLE

GENERAL NOTES:	
1.	THESE GENERAL NOTES APPLY TO ALL DRAWINGS.
2.	CONTRACTOR SHALL CONDUCT A SITE REVIEW PRIOR TO PRICING TO BECOME FAMILIAR WITH THE SITE CONDITIONS. VERIFY ALL LOCATIONS, SIZES, AND CONNECTIONS ON SITE AND REPORT ANY DISCREPANCIES TO THE CONSULTANT WITH PROPOSED RESOLUTION AND OBTAIN CONSULTANT'S APPROVAL.
3.	ALL EXISTING SERVICES THAT ARE NOT SHOWN ON THE DRAWINGS AND ARE EXPOSED DURING DEMOLITION/CONSTRUCTION SHALL BE VERIFIED BY THE CONTRACTOR AS TO THE SOURCE AND ROUTING AND SHALL BE REPORTED TO THE CONSULTANT WITH PROPOSED RESOLUTIONS.
4.	ALL BASE BUILDING SERVICES NOT IN SCOPE ARE TO REMAIN ON AND INTACT DURING THE DURATION OF WORK. WIRING, CONDUIT, AND EQUIPMENT REQUIRED TO MAINTAIN SERVICE SHALL BE TEMPORARILY SUPPORTED, RE-ROUTED, SERVICED, OR RELOCATED AS REQUIRED. ANY LOSS OF SERVICES TO EXISTING BASE BUILDING OUTSIDE OF SCOPE OF WORK SHALL BE COORDINATED WITH LANDLORD, FACILITY MANAGEMENT.
5.	ALL EQUIPMENT AND DEVICES SHOWN ARE APPROXIMATE LOCATIONS. EXACT LOCATIONS AND MOUNTING HEIGHTS SHALL BE COORDINATED ON SITE WITH OTHER TRADES AND CONSULTANT.
6.	SEAL AND FIRESTOP ALL WALL, FLOOR, AND ROOF PENETRATIONS THROUGH FIRE RATED ASSEMBLIES.
7.	COORDINATE ALL ELECTRICAL WORK AND SHUTDOWNS WITH LANDLORD, FACILITY MANAGEMENT AND OTHER TRADES.
8.	MAKE GOOD ALL SURFACES, INCLUDING CORE HOLES FROM DEMOLISHED OR RELOCATED EQUIPMENT/DEVICES, AFTER COMPLETION OF WORK.
9.	ALL MATERIALS SHALL BE DISPOSED IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS.
10.	COORDINATE ALL WORK TO SUIT PROJECT PHASE SCHEDULE. COORDINATE PHASING WITH ARCHITECT/INTERIOR DESIGNER/GC'S DRAWINGS.

SECURITY NOTES:	
1.	THESE SECURITY NOTES APPLY TO ALL DRAWINGS.
2.	ALL SECURITY DEVICES SHOWN ON DRAWINGS ARE BY CITY SECURITY CONTRACTOR. ELECTRICAL CONTRACTOR TO PROVIDE ROUGH-IN ONLY.

FIRE ALARM NOTES:	
1.	THESE FIRE ALARM NOTES APPLY TO ALL DRAWINGS.
2.	ALL FIRE ALARM DEVICES SHOWN ON DRAWINGS ARE BY OTHERS. ELECTRICAL CONTRACTOR TO PROVIDE ROUGH-IN ONLY.
3.	ALL MODIFICATIONS TO THE FIRE ALARM SYSTEM SHALL BE COMPLETED BY THE CITY FIRE ALARM CONTRACTOR/VENDOR/MANUFACTURER. NEW FIRE ALARM DEVICES SHALL MATCH EXISTING. CONNECT NEW FIRE ALARM DEVICES TO EXISTING CIRCUITS WITH SPARE CAPACITY. PROVIDE NEW FIRE ALARM CIRCUITS AS REQUIRED. ALLOW FOR ALL ASSOCIATED COSTS AND ADDITIONAL COMPONENTS INCLUDING, BUT NOT LIMITED TO; ASSOCIATED EQUIPMENT, DEVICES, PROGRAMMING, TESTING, AND VERIFICATION TO MAKE SYSTEM OPERATIONAL AND CODE COMPLIANT. FIRE ALARM SYSTEM SHALL BE INSTALLED AS PER LATEST EDITION OF CAN/ULC-S524. FIRE ALARM VERIFICATION SHALL BE COMPLETED AS PER LATEST EDITION OF CAN/ULC-S537.
4.	ALL FIRE ALARM DEVICES/EQUIPMENT TO BE CONNECTED TO FIRE ALARM PANEL IN MAIN HOUSE. TYPICAL FOR ALL.

RESPONSIBILITY MATRIX				
SYSTEM	SECURITY	COMMUNICATIONS	FIRE ALARM	ELECTRICAL
WORK				
ROUGH-IN & CONDUIT	ELEC	ELEC	ELEC	ELEC
CABLING & TERMINATION	SEC	ELEC	FA	ELEC
FIELD DEVICE INSTALLATION & TERMINATION	SEC	ELEC	FA	ELEC
PROGRAMMING	SEC	ELEC	FA	N/A
COMMISSIONING & TESTING	SEC	ELEC	FA	ELEC
ELEC = ELECTRICAL CONTRACTOR SEC = SECURITY CONTRACTOR FA = FIRE ALARM CONTRACTOR N/A = NOT APPLICABLE				
NOTE: FINAL WIRING OF FIRE ALARM AND SECURITY WORK ARE TO BE DONE BY CITY'S VENDOR, HOWEVER IT IS THE CONTRACTOR RESPONSIBILITY TO CARRY CITY'S VENDOR TO COMPLETE THE WORK IN BASE BID.				

DATA/ COMMUNICATION NOTES:	
1.	RUN 2 CAT 6 CABLES TO PATCH PANEL. TERMINATE CABLES IN RJ45 KEYSTONE JACKS. PROVIDE PROPER LABELING AND TESTING.

POWER AND SYSTEMS LEGEND	
SYMBOL	DESCRIPTION
	NEW WORK
	EXISTING TO REMAIN
	EXISTING TO BE DEMOLISHED
	DATA OUTLET
	COMMUNICATIONS RACK
	TELEPHONE OUTLET
	COMBINATION TELEPHONE & DATA OUTLET
	COMBINATION TELEPHONE & DATA OUTLET - FLOOR MOUNTED
	COMBINATION TELEPHONE & DATA OUTLET - CEILING MOUNTED
	COMBINATION POWER & COMMUNICATION FLOOR OUTLET BOX - SURFACE MOUNTED
	COMBINATION POWER & COMMUNICATION FLOOR OUTLET BOX - FLUSH MOUNTED
	COMBINATION POWER & COMMUNICATION POKE-THRU TYPE FLOOR OUTLET BOX - FLUSH MOUNTED
	TELEVISION OUTLET
	DISHWASHER OUTLET
	WATER HEATER OUTLET
	GENERAL OUTLET X = TYPE
	GENERAL OUTLET - FLOOR MOUNTED X = TYPE
	GENERAL OUTLET - CEILING MOUNTED X = TYPE
	SINGLE RECEPTACLE
	SINGLE RECEPTACLE - FLOOR MOUNTED
	SINGLE RECEPTACLE - CEILING MOUNTED
	DUPLEX RECEPTACLE
	DUPLEX RECEPTACLE - FLOOR MOUNTED
	DUPLEX RECEPTACLE - CEILING MOUNTED
	DUPLEX RECEPTACLE - C/W ISOLATED GROUND
	DUPLEX RECEPTACLE - 5-20R (T-SLOT)
	SPLIT WIRED DUPLEX RECEPTACLE
	GFI DUPLEX RECEPTACLE
	GFI DUPLEX RECEPTACLE - 5-20R (T-SLOT)
	QUADRUPLEX RECEPTACLE
	QUADRUPLEX RECEPTACLE - FLOOR MOUNTED
	QUADRUPLEX RECEPTACLE - CEILING MOUNTED
	QUADRUPLEX RECEPTACLE - C/W ISOLATED GROUND
	SYSTEMS FURNITURE BASE FEED - FLOOR
	SYSTEMS FURNITURE BASE FEED - WALL
	SYSTEMS FURNITURE BASE FEED - SERVICE POLE
	SYSTEMS FURNITURE BASE FEED - WIREMOLD
	CONNECTRAC RACEWAY
	WIREMOLD RACEWAY C/W POWER RECEPTACLE & COMBINATION OUTLET
	MOTOR CONNECTION
	DISCONNECT SWITCH - FUSED
	DISCONNECT SWITCH - NON-FUSED
	DIRECT CONNECTION TO EQUIPMENT AS NOTED
	ELECTRIC BASEBOARD HEATER
	PANEL - SURFACE MOUNTED
	PANEL - FLUSH MOUNTED
	PUSH BUTTON SWITCH
	JUNCTION BOX - WALL MOUNTED
	JUNCTION BOX - CEILING MOUNTED
	JUNCTION BOX - FLOOR MOUNTED

FIRE ALARM SYSTEMS LEGEND	
SYMBOL	DESCRIPTION
	NEW WORK
	EXISTING TO REMAIN
	EXISTING TO BE DEMOLISHED
	SMOKE DETECTOR - CEILING MOUNTED
	HEAT DETECTOR
	FIRE ALARM BELL
	FIRE ALARM HORN
	FIRE ALARM HORN AND STROBE DEVICE
	FIRE ALARM MANUAL PULL STATION
	FIRE ALARM EVACUATION SPEAKER - CEILING MOUNTED
	FIRE ALARM EVACUATION SPEAKER - WALL MOUNTED
	FIRE ALARM SPEAKER/STROBE COMBINATION - CEILING MOUNTED
	FIRE ALARM SPEAKER/STROBE COMBINATION - WALL MOUNTED
	FIRE ALARM STROBE - CEILING MOUNTED
	FIRE ALARM STROBE - WALL MOUNTED
	SMOKE ALARM/STROBE COMBINATION - CEILING MOUNTED
	SMOKE ALARM/STROBE COMBINATION - WALL MOUNTED
	DUCT MOUNTED SMOKE DETECTOR
	FLOW SWITCH
	SUPERVISED VALVE
	FIREMAN'S HANDSET

SINGLE LINE DIAGRAM LEGEND	
SYMBOL	DESCRIPTION
	NEW WORK
	EXISTING TO REMAIN
	EXISTING TO BE DEMOLISHED
	START SWITCH
	STOP SWITCH
	CIRCUIT BREAKER
	LIGHTING ARRESTOR
	SWITCH AND FUSE UNIT
	FUSIBLE HIGH VOLTAGE ISOLATION SWITCH
	TRANSFORMER
	TRANSFORMER - ELECTROSTATIC SHIELD

ABBREVIATIONS	
ABB.	DESCRIPTION
BAS	BUILDING AUTOMATION SYSTEM
CTE	CONNECT TO EXISTING
ER	EXISTING TO BE REMOVED
E	EXISTING TO REMAIN
GFI	GROUND FAULT CIRCUIT INTERRUPTER
GND	BONDING CONDUCTOR CONNECTED TO BUILDING GROUND
N	NEW TO BE PROVIDED
RL	EXISTING DEVICE/EQUIPMENT IN RELOCATED POSITION
RR	REMOVE AND REINSTALL
TYP	TYPICAL
VFD	VARIABLE FREQUENCY DRIVE
WP	WEATHERPROOF
SLD	SINGLE LINE DIAGRAM
P.F.C.	POWER FACTOR CAPACITOR
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR

LIGHTING LEGEND	
SYMBOL	DESCRIPTION
	NEW WORK
	EXISTING TO REMAIN
	EXISTING TO BE DEMOLISHED
	EXISTING TO BE REMOVED OR RELOCATED
	LUMINAIRE FIXTURE
	LUMINAIRE FIXTURE TO BE REMOVED OR RELOCATED
	EMERGENCY LUMINAIRE FIXTURE
	TRACK LIGHTING (NUMBER OF FIXTURES SHOWN ON SYMBOL)
	TRACK LIGHTING TO BE REMOVED OR RELOCATED
	POT LIGHT
	RECESSED POT LIGHT CONNECTED TO NIGHT LIGHT CIRCUIT
	SUSPENDED LUMINAIRE
	WALL MOUNTED LUMINAIRE
	SWITCH - SINGLE POLE
	SWITCH - DOUBLE POLE
	SWITCH - THREE WAY
	SWITCH - FOUR WAY
	SWITCH - LOW VOLTAGE MASTER
	SWITCH - DIMMER
	DAY LIGHT PHOTO SENSOR
	OCCUPANCY SENSOR - CEILING MOUNTED
	OCCUPANCY SENSOR C/W SWITCH - WALL MOUNTED
	EXIT SIGN - PENDANT/CEILING MOUNTED (SHADING INDICATES LIGHTED FACES, ARROWS INDICATE DIRECTION OF EXIT)
	EXIT SIGN - WALL MOUNTED (SHADING INDICATES LIGHTED FACES, ARROWS INDICATE DIRECTION OF EXIT)
	OUTDOOR POLE ARM FIXTURE - ONE LIGHT
	OUTDOOR POLE ARM FIXTURE - TWO LIGHT
	OUTDOOR POLE ARM FIXTURE - THREE LIGHT
	WALL PACK
	EMERGENCY WALL PACK
	OUTDOOR FLOOD LIGHT
	RECESSED POT LIGHT
	RECESSED POT LIGHT C/W EMERGENCY BATTERY BACKUP
	WALL MOUNTED LUMINAIRE
	SUSPENDED LUMINAIRE
	EMERGENCY LIGHTS TWIN HEADS C/W BATTERY UNIT
	EMERGENCY LIGHTS TWIN HEADS, WALL MOUNTED

SECURITY LEGEND	
SYMBOL	DESCRIPTION
	NEW WORK
	EXISTING TO REMAIN
	EXISTING TO BE DEMOLISHED
	CCTV SECURITY CAMERA DOME
	INTRUSION PANEL
	CARD READER
	ELECTRIC STRIKE
	INTRUSION MOTION SENSOR
	DOOR CONTACT
	REQUEST FOR EXIT
	AUTOMATIC DOOR OPERATOR BY OTHERS
	HANDICAP PUSH PLATE BY OTHERS
	INTRUSION KEYPAD

DO NOT SCALE DRAWINGS. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND ADVISE CONSULTANTS OF ANY ERRORS OR OMISSIONS. NO VARIATIONS OR MODIFICATIONS TO WORK SHOWN SHALL BE IMPLEMENTED WITHOUT PRIOR WRITTEN APPROVAL. ALL PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED BY THE LATEST REVISION. ALL DRAWINGS AND SPECIFICATIONS REMAIN THE PROPERTY OF MAT 4SITE ENGINEERS LTD.

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3	2023/05/31	ISSUED FOR 50% CD
2	2023/04/26	ISSUED FOR 100% DD
1	2023/04/10	ISSUED FOR 50% DD
No.	Date	Action

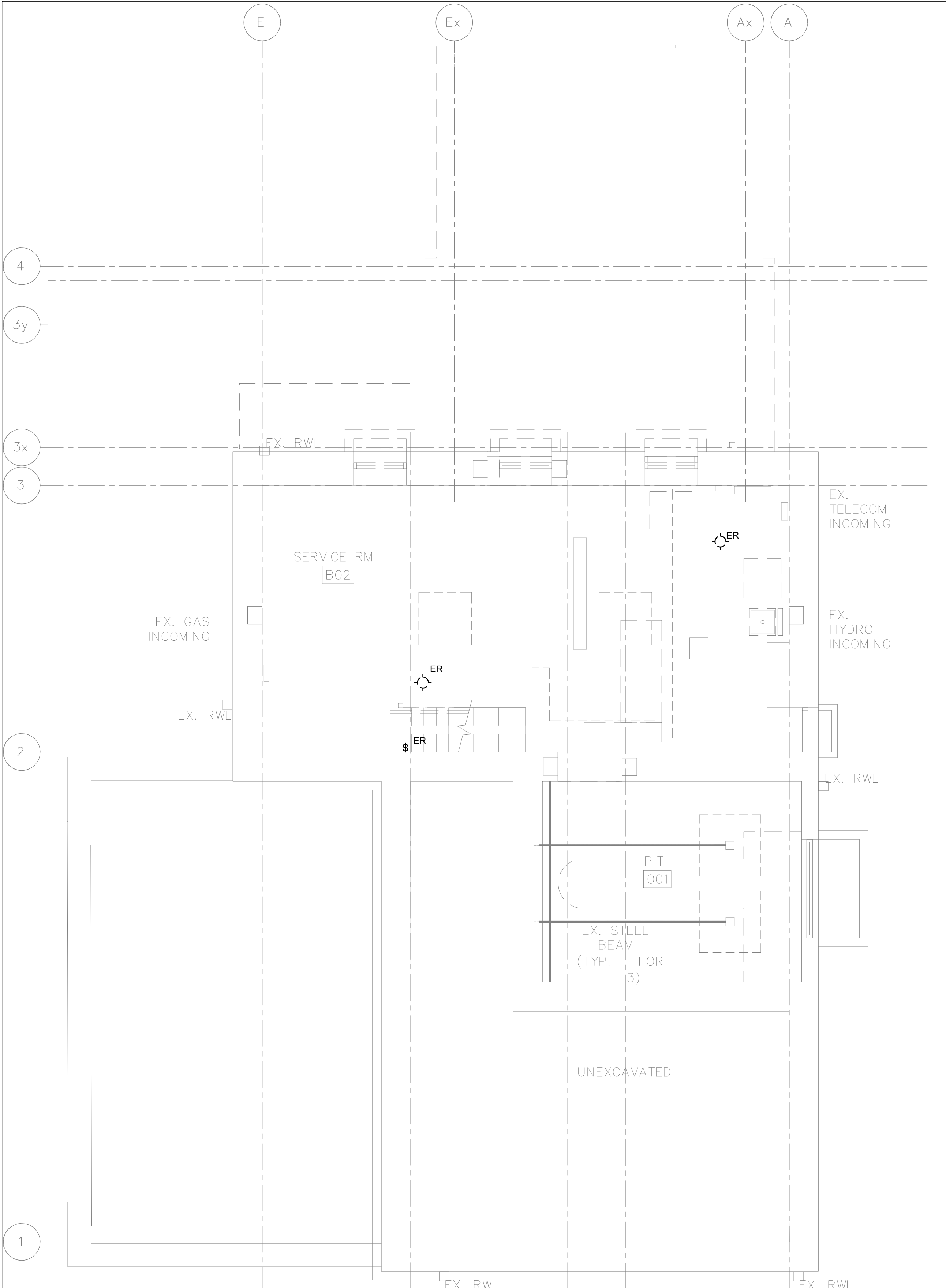


Orientation	Stamp
Project Name and Address: SPADINA MUSEUM GARAGE REHABILITATION AND SITE ACCESSIBILITY 285 SPADINA RD, TORONTO, ON M5R2V5	
Drawing title GENERAL NOTES, LEGENDS AND SCHEDULES	

Scale: N.T.S.	Project No. 22626
Designer: N.J.	Date: 2023/01/25
Drawn by: R.A.	Checked by: R.M.
Drawing file: 22626-E	Client Approval
Revision No. 0	Drawing No. E-100

DEMOLITION - GENERAL NOTES:

1. THESE GENERAL NOTES APPLY TO ALL DEMO DRAWINGS.
2. REMOVE ALL WIRING, CONDUITS, EQUIPMENT, AND DEVICES NOT REQUIRED, TO SUIT NEW LAYOUT AND MAKE SAFE.
3. REMOVE FLOOR MONUMENTS AND CUT BACK ALL ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE. MAKE GOOD ALL FLOOR PENETRATIONS.
4. ENSURE ALL EXISTING FIRE ALARM CIRCUITS REMAIN AND ARE MADE SAFE FOR USE DURING THE CONSTRUCTION PHASE.
5. ENSURE ALL EXISTING EMERGENCY LIGHTING CIRCUITS AND EXIT LIGHTING CIRCUITS REMAIN AND ARE MADE SAFE FOR USE DURING THE CONSTRUCTION PHASE.



1 BASEMENT - LIGHTING - DEMOLITION
E-200 SCALE: 1/4" = 1'-0"

LIGHTING - GENERAL NOTES:

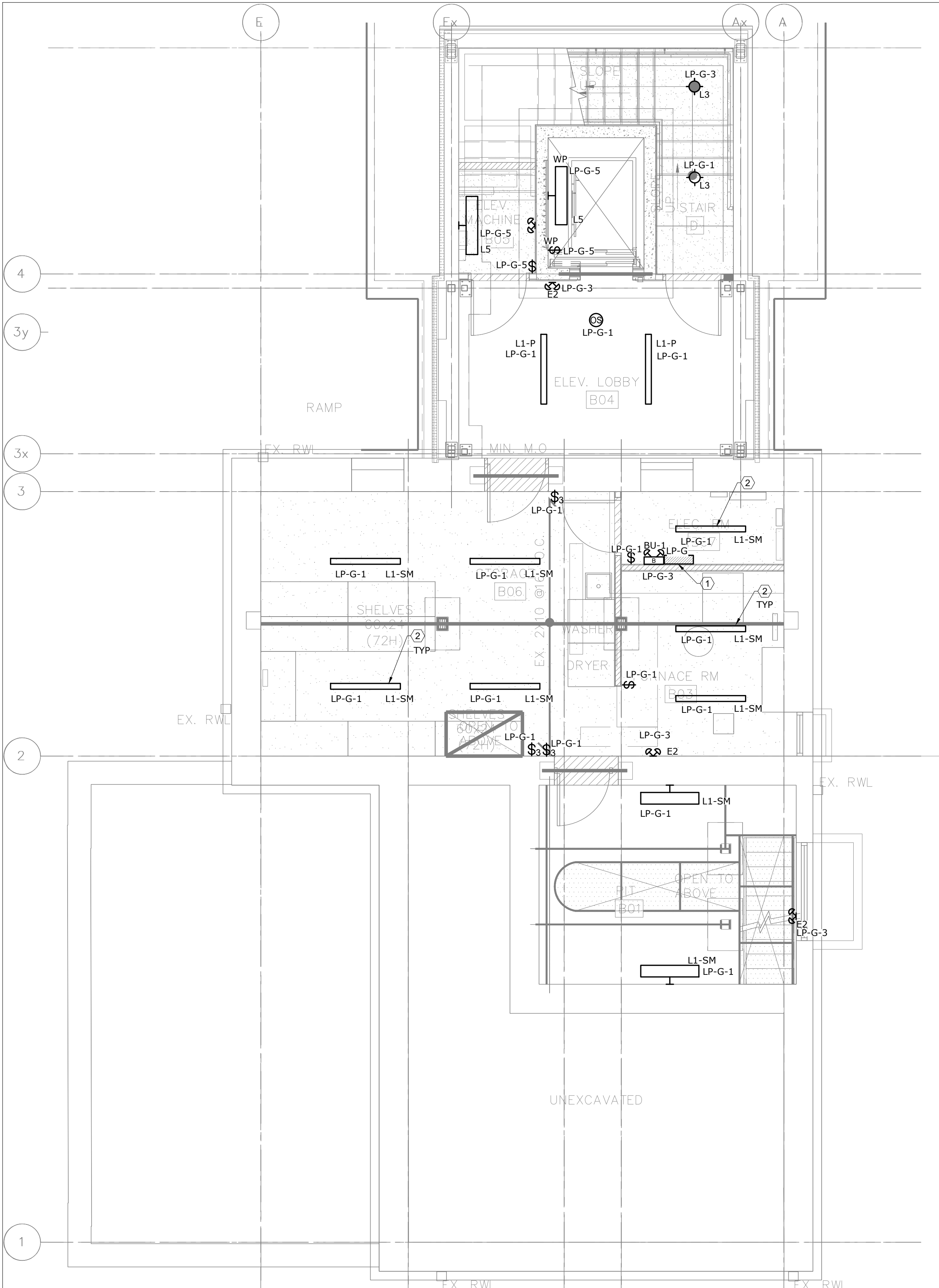
1. THESE GENERAL NOTES APPLY TO ALL LIGHTING DRAWINGS.
2. ALL NEW OR RELOCATED RECESSED LUMINAIRES SHALL BE CHAIN HUNG AND SUPPORTED FROM THE SLAB ABOVE. PROVIDE LETTER AS PART OF CLOSE-OUT.
3. EXISTING AND RELOCATED LUMINAIRES SHALL BE RE-LAMPED DUE TO BURNOUT CONDITIONS AND FAULTY BALLASTS SHALL BE REPLACED AS REQUIRED.
4. ENSURE ALL LUMINAIRES ARE CLEAN AND ILLUMINATED AT THE END OF THE PROJECT.
5. REWORK EMERGENCY LIGHTING TO ACHIEVE NEW LAYOUT SHOWN. MEASURE ILLUMINATION AT NIGHT WITH EMERGENCY LIGHTING ONLY, AND PROVIDE DRAWING SHOWING MAXIMUM AND MINIMUM LEVELS TO ENGINEER FOR REVIEW. PROVIDE WRITTEN CONFIRMATION THAT EMERGENCY LIGHTING HAS BEEN INSTALLED AS PER LATEST CONTRACT DOCUMENTS AND LATEST EDITION OF THE ONTARIO BUILDING CODE SECTIONS 3.2.7.3 AND 3.2.7.4. LETTER SHALL BE INCLUDED AS PART OF CLOSE-OUT.

LIGHTING - GENERAL NOTES:(CONTINUE)

6. EMERGENCY LIGHTING SHALL BE CONNECTED SUCH THAT UNDER NORMAL CONDITIONS, THEY WORK IN CONJUNCTION WITH THE SWITCHING SHOWN. IN THE EVENT OF AN EMERGENCY, THESE LIGHTS ARE TO BE FORCED ON WITH THE USE OF A UL-924 LISTED RELAY. UPON POWER FAILURE, THE RELAY IS TO ACTIVATE THE LIGHTS TO FULL BRIGHTNESS.
7. CONNECT NEW EXIT SIGNS TO CLOSEST AVAILABLE EXIT LIGHTING CIRCUIT. CIRCUITS SHALL NOT BE OVERLOADED. ALLOW FOR THREE (3) ADDITIONAL EXIT SIGNS, COMPLETE WITH LABOUR AND MATERIALS, TO BE INSTALLED AS PER BUILDING INSPECTOR'S REQUIREMENTS UPON FINAL INSPECTION.
8. POSITION AND LOCATE EXIT SIGNS AS TO NOT INTERFERE WITH ADJACENT EXIT SIGNS AND EMERGENCY LIGHTING COVERAGE.

REFERENCE NOTES:

- 1 NEW ELECTRICAL LIGHTING PANEL.
- 2 LIGHTING FIXTURE MOUNTED ON GWB.



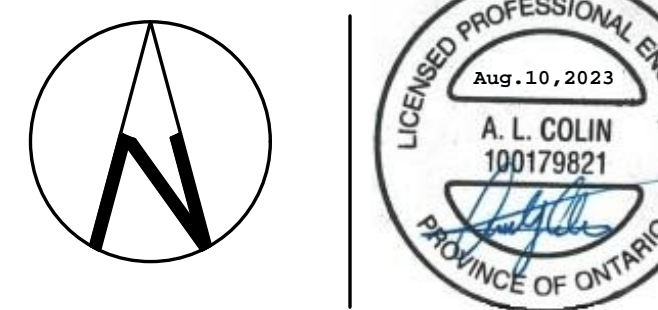
2 BASEMENT - LIGHTING - MODIFICATION
E-200 SCALE: 1/4" = 1'-0"

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2	2023/04/26	ISSUED FOR 100% DD
1	2023/04/10	ISSUED FOR 50% DD

No.	Date	Action
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MAT 4SITE ENGINEERS LTD.
620 WILSON AVE., SUITE 300, TORONTO, ON M6K 1Z3
PHONE: 416-229-6574 FAX: 416-229-4105



Project Name and Address:
**SPADINA MUSEUM
GARAGE REHABILITATION AND
SITE ACCESSIBILITY**
285 SPADINA RD,
TORONTO, ON M5R2V5

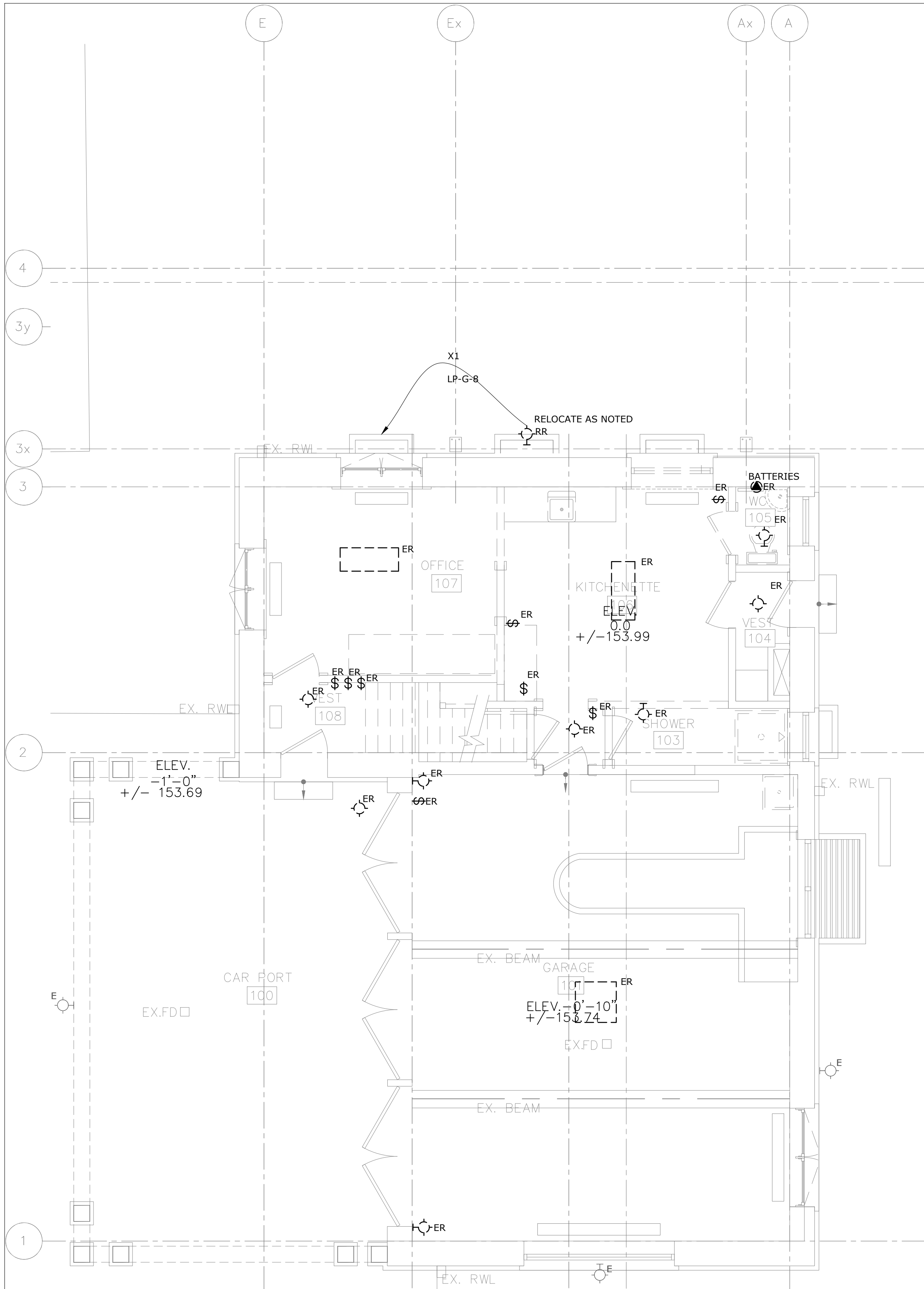
Drawing title
**BASEMENT - LIGHTING -
DEMOLITION &
MODIFICATION**

Scale: 1/4" = 1'-0"	Project No. 22626
Designer: N.J.	Date: 2023/01/25
Drawn by: R.A.	Checked by: R.M.
Drawing file: 22626-E	Client Approval

Revision No. 0	Drawing No. E-200
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DEMOLITION - GENERAL NOTES:

1. THESE GENERAL NOTES APPLY TO ALL DEMO DRAWINGS.
2. REMOVE ALL WIRING, CONDUITS, EQUIPMENT, AND DEVICES NOT REQUIRED, TO SUIT NEW LAYOUT AND MAKE SAFE.
3. REMOVE FLOOR MONUMENTS AND CUT BACK ALL ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE. MAKE GOOD ALL FLOOR PENETRATIONS.
4. ENSURE ALL EXISTING FIRE ALARM CIRCUITS REMAIN AND ARE MADE SAFE FOR USE DURING THE CONSTRUCTION PHASE.
5. ENSURE ALL EXISTING EMERGENCY LIGHTING CIRCUITS AND EXIT LIGHTING REMAIN AND ARE MADE SAFE FOR USE DURING THE CONSTRUCTION PHASE.



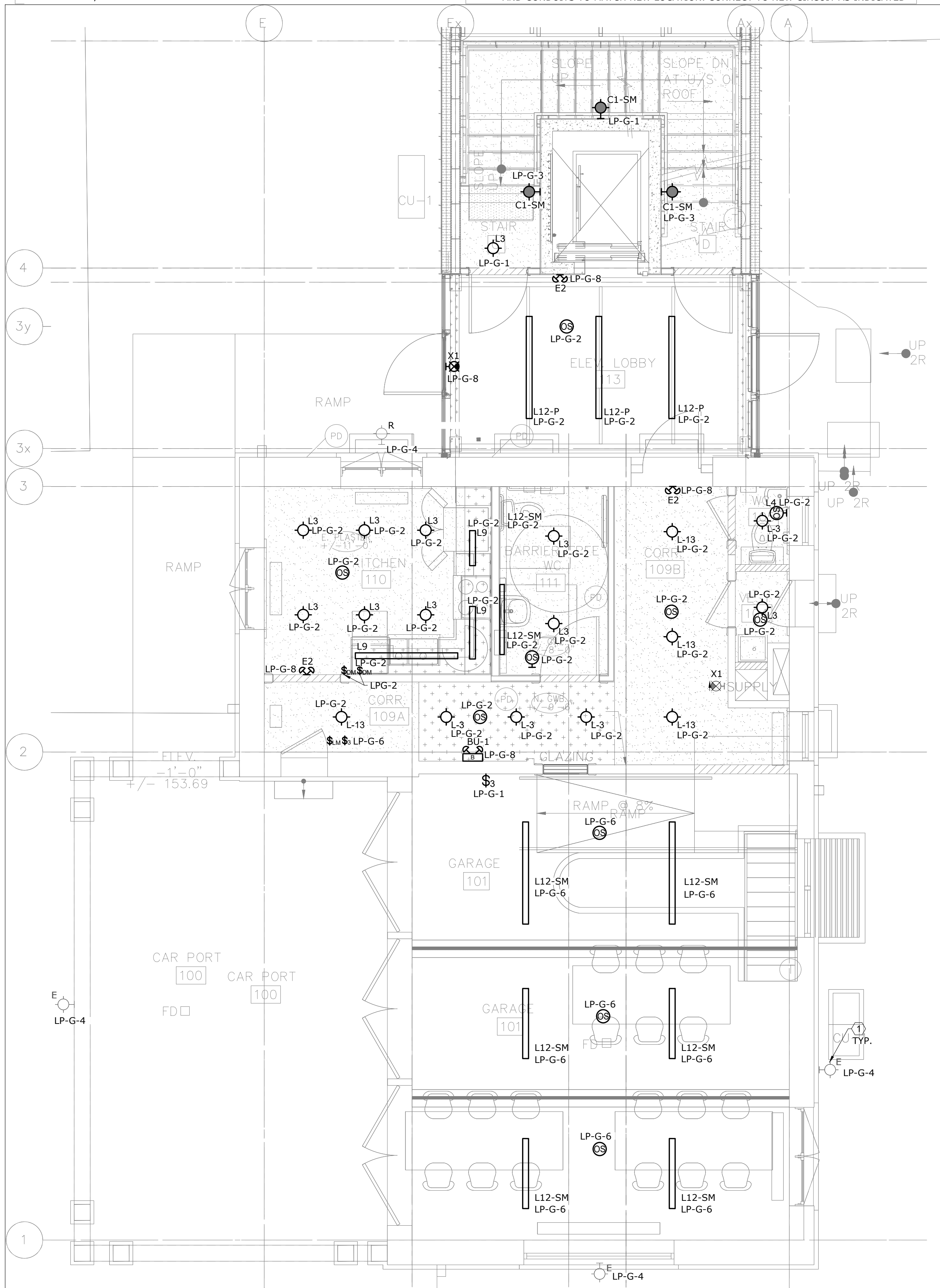
1 GROUND FLOOR - LIGHTING - DEMOLITION
E-201 SCALE: 1/4" = 1'-0"

LIGHTING - GENERAL NOTES:

1. THESE GENERAL NOTES APPLY TO ALL LIGHTING DRAWINGS.
2. ALL NEW OR RELOCATED RECESSED LUMINAIRES SHALL BE CHAIN HUNG AND SUPPORTED FROM THE SLAB ABOVE. PROVIDE LETTER AS PART OF CLOSE-OUT.
3. EXISTING AND RELOCATED LUMINAIRES SHALL BE RE-LAMPED DUE TO BURNOUT CONDITIONS AND FAULTY BALLASTS SHALL BE REPLACED AS REQUIRED.
4. ENSURE ALL LUMINAIRES ARE CLEAN AND ILLUMINATED AT THE END OF THE PROJECT.
5. REWORK EMERGENCY LIGHTING TO ACHIEVE NEW LAYOUT SHOWN. MEASURE ILLUMINATION AT NIGHT WITH EMERGENCY LIGHTING ONLY, AND PROVIDE DRAWING SHOWING MAXIMUM AND MINIMUM LEVELS TO ENGINEER FOR REVIEW. PROVIDE WRITTEN CONFIRMATION THAT EMERGENCY LIGHTING HAS BEEN INSTALLED AS PER LATEST CONTRACT DOCUMENTS AND LATEST EDITION OF THE ONTARIO BUILDING CODE SECTIONS 3.2.7.3 AND 3.2.7.4. LETTER SHALL BE INCLUDED AS PART OF CLOSE-OUT.
6. EMERGENCY LIGHTING SHALL BE CONNECTED SUCH THAT UNDER NORMAL CONDITIONS, THEY WORK IN CONJUNCTION WITH THE SWITCHING SHOWN. IN THE EVENT OF AN EMERGENCY, THESE LIGHTS ARE TO BE FORCED ON WITH THE USE OF A UL-924 LISTED

LIGHTING - GENERAL NOTES: (CONTINUE)

- RELAY. UPON POWER FAILURE, THE RELAY IS TO ACTIVATE THE LIGHTS TO FULL BRIGHTNESS.
7. CONNECT NEW EXIT SIGNS TO CLOSEST AVAILABLE EXIT LIGHTING CIRCUIT. CIRCUITS SHALL NOT BE OVERLOADED. ALLOW FOR THREE (3) ADDITIONAL EXIT SIGNS, COMPLETE WITH LABOUR AND MATERIALS, TO BE INSTALLED AS PER BUILDING INSPECTOR'S REQUIREMENTS UPON FINAL INSPECTION.
 8. POSITION AND LOCATE EXIT SIGNS AS TO NOT INTERFERE WITH ADJACENT EXIT SIGNS AND EMERGENCY LIGHTING COVERAGE.
 9. ALL EXTERIOR LIGHTING TO BE CONTROLLED BY THE PHOTO CELL.
- REFERENCE NOTES:
- ① EXISTING LIGHT FIXTURE TO REMAIN. KEEP EXISTING WIRING AND CONDUIT BACK TO PANEL, TERMINATE AS REQUIRED TO NEW LIGHTING PANEL IN BASEMENT. CONNECT TO NEW CIRCUIT AS INDICATED.
 - ② EXISTING LIGHTING FIXTURE IN RELOCATED LOCATION, RE-ROUTE EXISTING WIRES AND CONDUITS TO MATCH NEW LOCATION. CONNECT TO NEW CIRCUIT AS INDICATED

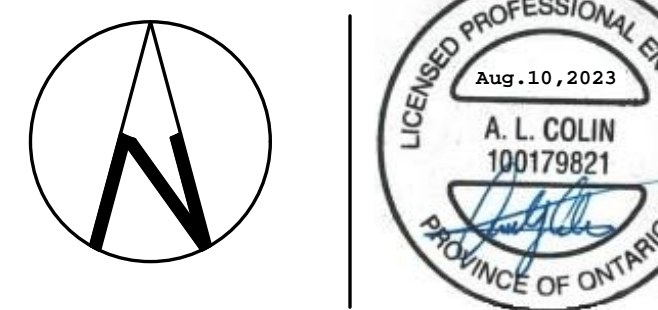


2 GROUND FLOOR - LIGHTING - MODIFICATION
E-201 SCALE: 1/4" = 1'-0"

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No.	Date	Action

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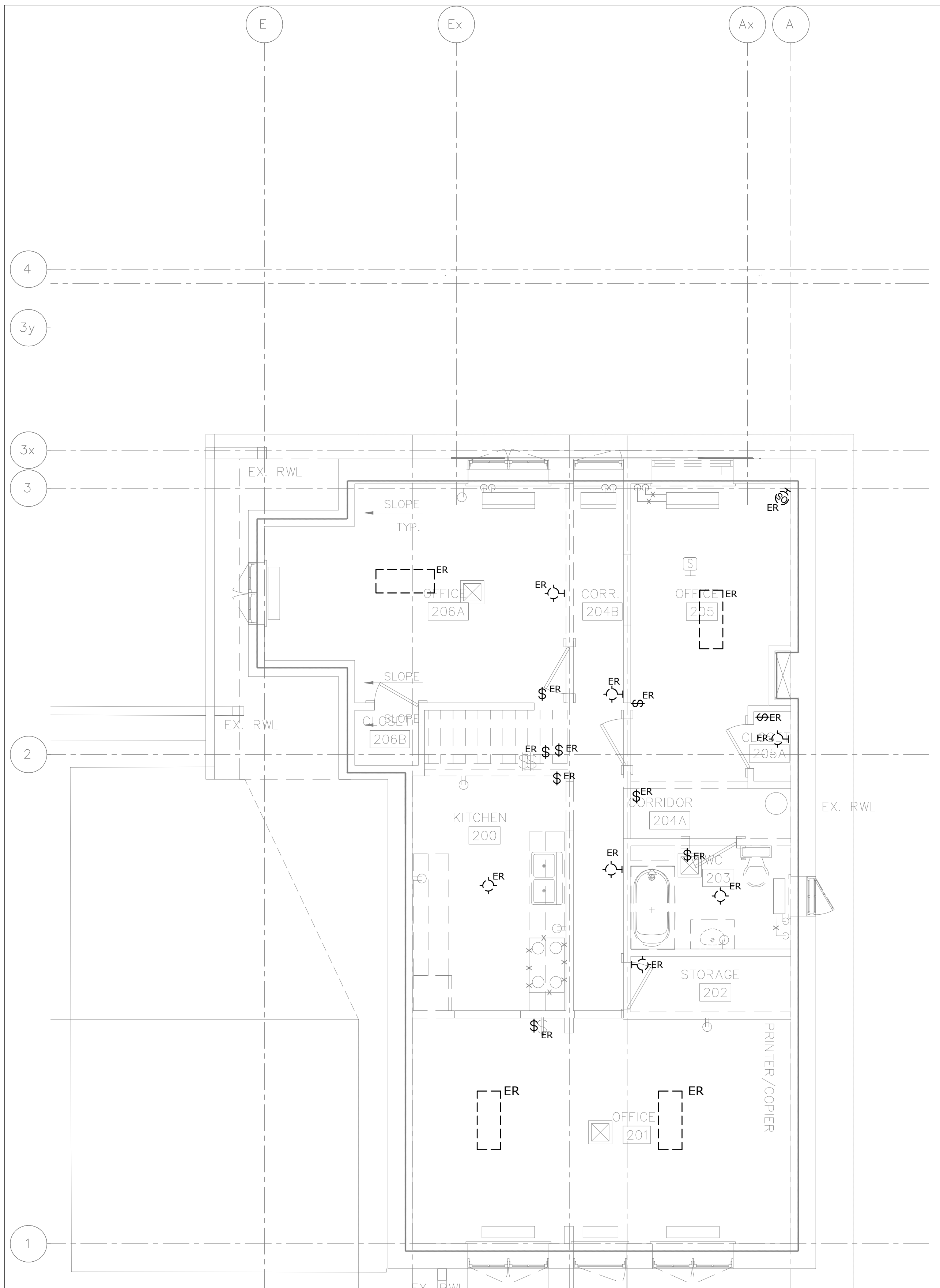
Orientation Stamp
Project Name and Address:
**SPADINA MUSEUM
GARAGE REHABILITATION AND
SITE ACCESSIBILITY**
285 SPADINA RD,
TORONTO, ON M5R2V5

Drawing title
**GROUND FLOOR –
LIGHTING – DEMOLITION &
MODIFICATION**

Scale: 1/4" = 1'-0"	Project No. 22626
Designer: N.J.	Date: 2023/01/25
Drawn by: R.A.	Checked by: R.M.
Drawing file: 22626-E	Client Approval

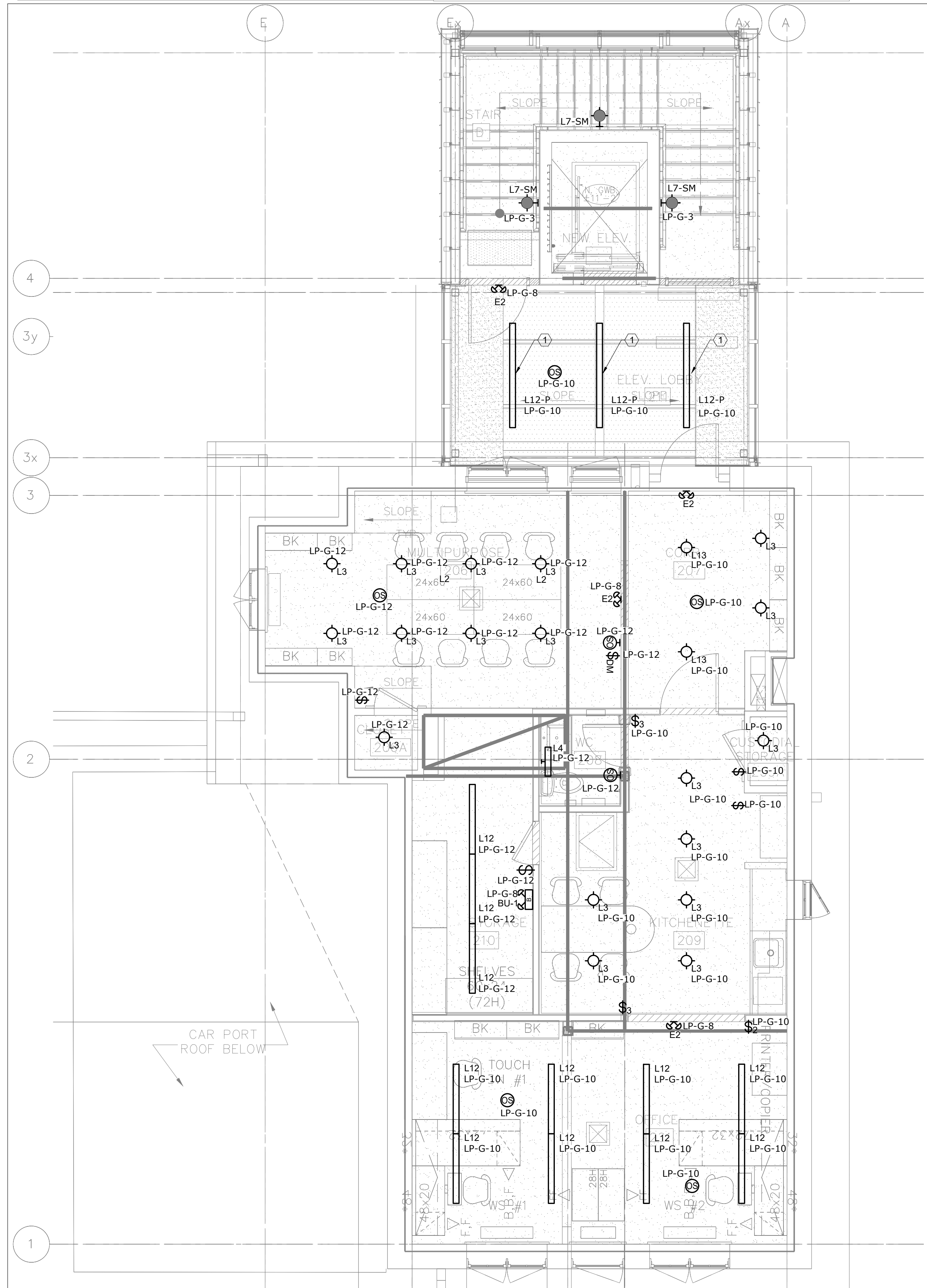
Revision No.	Drawing No.
0	E-201

1. THESE GENERAL NOTES APPLY TO ALL DEMO DRAWINGS.
2. REMOVE ALL WIRING, CONDUITS, EQUIPMENT, AND DEVICES NOT REQUIRED, TO SUIT NEW LAYOUT AND MAKE SAFE.
3. REMOVE FLOOR MONUMENTS AND CUT BACK ALL ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE. MAKE GOOD ALL FLOOR PENETRATIONS.
4. ENSURE ALL EXISTING FIRE ALARM CIRCUITS REMAIN AND ARE MADE SAFE FOR USE DURING THE CONSTRUCTION PHASE.
5. ENSURE ALL EXISTING EMERGENCY LIGHTING CIRCUITS AND EXIT LIGHTING CIRCUITS REMAIN AND ARE MADE SAFE FOR USE DURING THE CONSTRUCTION PHASE.



1 SECOND FLOOR - LIGHTING - DEMOLITION
E-202 SCALE: 1/4" = 1'-0"

1. THESE GENERAL NOTES APPLY TO ALL LIGHTING DRAWINGS.
2. ALL NEW OR RELOCATED RECESSED LUMINAIRES SHALL BE CHAIN HUNG AND SUPPORTED FROM THE SLAB ABOVE. PROVIDE LETTER AS PART OF CLOSE-OUT.
3. EXISTING AND RELOCATED LUMINAIRES SHALL BE RE-LAMPED DUE TO BURNOUT CONDITIONS AND FAULTY BALLASTS SHALL BE REPLACED AS REQUIRED.
4. ENSURE ALL LUMINAIRES ARE CLEAN AND ILLUMINATED AT THE END OF THE PROJECT.
5. REWORK EMERGENCY LIGHTING TO ACHIEVE NEW LAYOUT SHOWN. MEASURE ILLUMINATION AT NIGHT WITH EMERGENCY LIGHTING ONLY, AND PROVIDE DRAWING SHOWING MAXIMUM A MINIMUM LEVELS TO ENGINEER FOR REVIEW. PROVIDE WRITTEN CONFIRMATION THAT EMERGENCY LIGHTING HAS BEEN INSTALLED AS PER LATEST CONTRACT DOCUMENTS AND LATEST EDITION OF THE ONTARIO BUILDING CODE SECTIONS 3.2.7.3 AND 3.2.7.4. LETTER SHALL BE INCLUDED AS PART OF CLOSE-OUT.



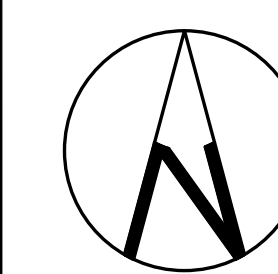
2 SECOND FLOOR - LIGHTING - MODIFICATION
E-202 SCALE: 1/4" = 1'-0"

6. EMERGENCY LIGHTING SHALL BE CONNECTED SUCH THAT UNDER NORMAL CONDITIONS, THEY WORK IN CONJUNCTION WITH THE SWITCHING SYSTEM. IN THE EVENT OF AN EMERGENCY, THESE LIGHTS ARE TO BE FORCED ON WITH THE USE OF A 24VDC LISTED RELAY UPON POWER FAILURE, THE RELAY IS TO ACTIVATE THE LIGHTS TO FULL BRIGHTNESS.
7. CONNECT NEW EXIT SIGNS TO CLOSEST AVAILABLE EXIT LIGHTING CIRCUIT. CIRCUITS SHALL NOT BE OVERLOADED. ALLOW FOR THREE (3) ADDITIONAL EXIT SIGNS, COMPLETE WITH LABOUR AND MATERIALS, TO BE INSTALLED AS PER BUILDING INSPECTOR'S REQUIREMENTS UPON FINAL INSPECTION.
8. POSITION AND LOCATE EXIT SIGNS AS TO NOT INTERFERE WITH ADJACENT EXIT SIGNS AND EMERGENCY LIGHTING COVERAGE.

1 LIGHTING FIXTURE HANGED FROM CEILING

DO NOT SCALE DRAWINGS.
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OF ANY ERRORS OR OMISSIONS.
NO VARIATIONS OR MODIFICATIONS TO WORK SHOWN SHALL BE
IMPLEMENTED WITHOUT PRIOR WRITTEN APPROVAL.
ALL PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED BY THE
LATEST REVISION.
ALL DRAWINGS AND SPECIFICATIONS REMAIN THE PROPERTY OF
MAT 4SITE ENGINEERS LTD.

5	2023/08/04	ISSUED FOR PERMIT/TENDER
4	2023/07/12	ISSUED FOR 95% REVIEW
3	2023/05/31	ISSUED FOR 50% CD
2	2023/04/26	ISSUED FOR 100% DD
1	2023/04/10	ISSUED FOR 50% DD
No.	Date	Action



Project Name and Address:

SPADINA MUSEUM
GARAGE REHABILITATION AND
SITE ACCESSIBILITY
285 SPADINA RD,
TORONTO, ON M5R2V5

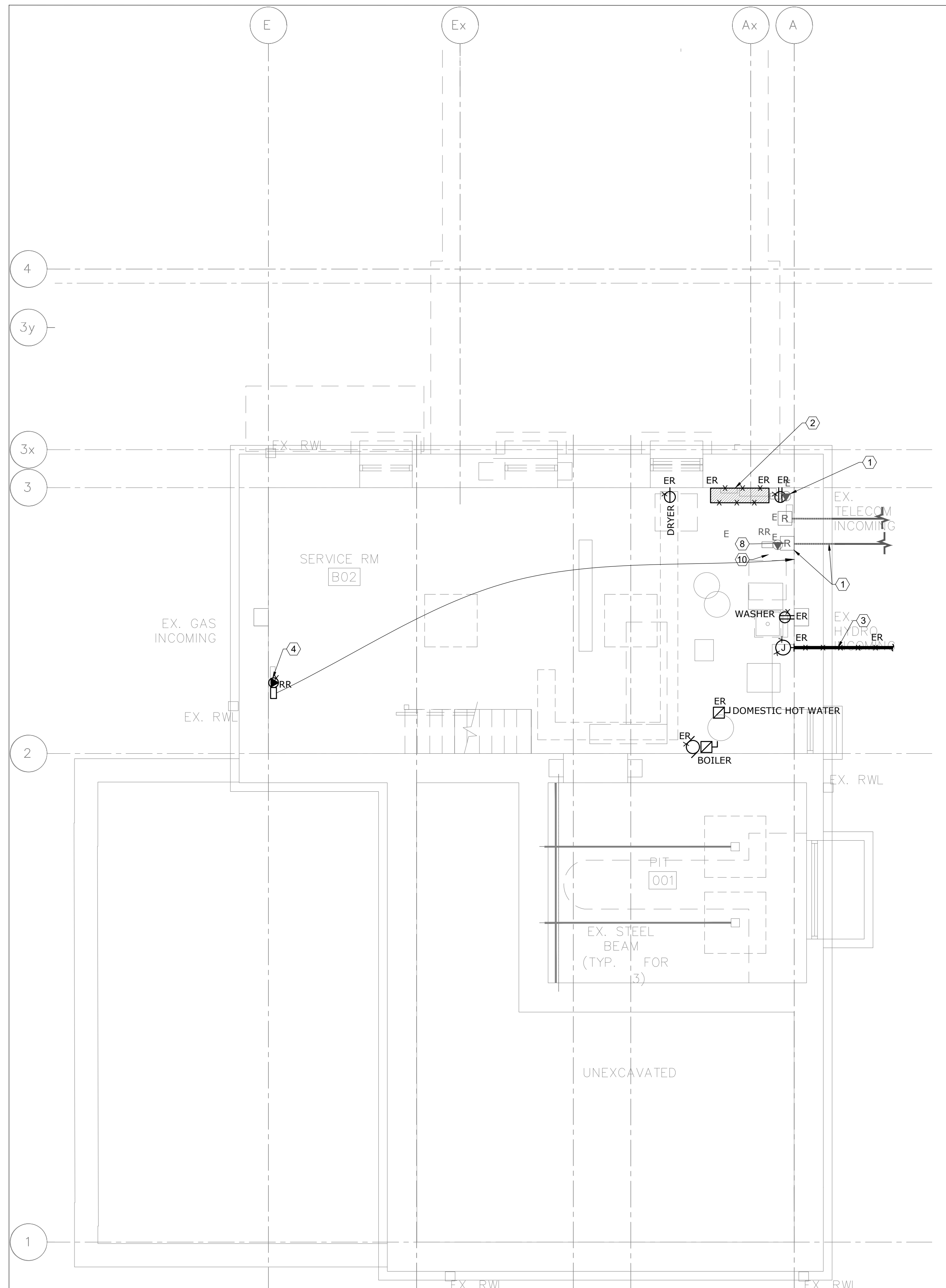
Drawing title
SECOND FLOOR –
LIGHTING – DEMOLITION &
MODIFICATION

Scale: 1/4" = 1'-0"	Project No. 22626
Designer: N.J.	Date: 2023/01/25
Drawn by: R.A.	Checked by: R.M.
Drawing file: 22626-F	Client Approval

Revision No.	Drawing No.
0	E-202

1. THESE GENERAL NOTES APPLY TO ALL DEMO DRAWINGS.
2. REMOVE ALL WIRING, CONDUITS, EQUIPMENT, AND DEVICES NOT REQUIRED, TO SUIT NEW LAYOUT AND MAKE SAFE.
3. REMOVE FLOOR MONUMENTS AND CUT BACK ALL ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE. MAKE GOOD ALL FLOOR PENETRATIONS.
4. ENSURE ALL EXISTING FIRE ALARM CIRCUITS REMAIN AND ARE MADE SAFE FOR USE DURING THE CONSTRUCTION PHASE.
5. ENSURE ALL EXISTING EMERGENCY LIGHTING CIRCUITS AND EXIT LIGHTING CIRCUITS REMAIN AND ARE MADE SAFE FOR USE DURING THE CONSTRUCTION PHASE.

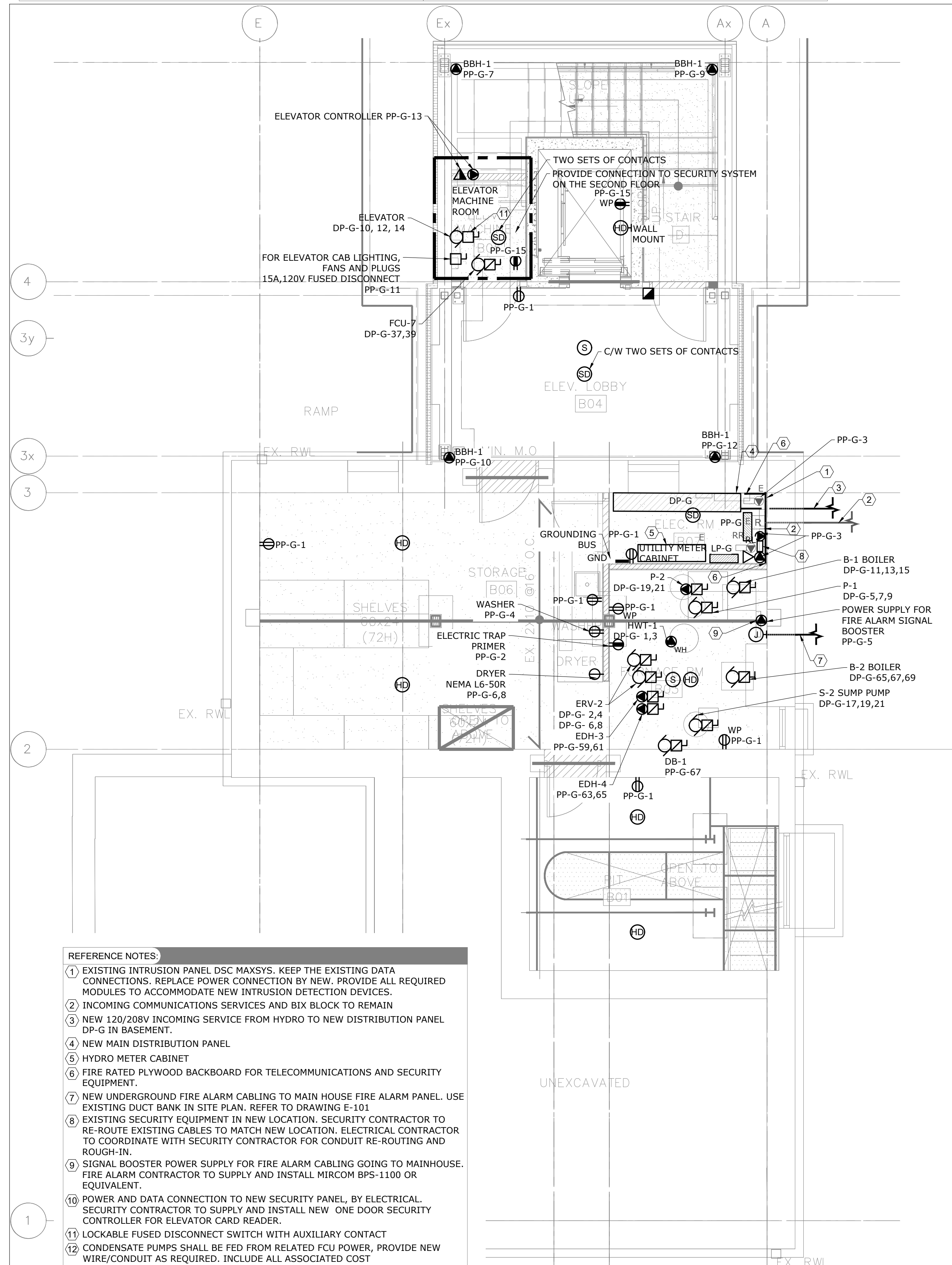
- ① INCOMING COMMUNICATIONS SERVICES AND BIX BLOCK TO REMAIN
- ② EXISTING 120/208V PANEL FED FROM MAIN HOUSE PANEL TO BE REMOVED WITH ALL ASSOCIATED CABLES AND CONDUITS BACK TO SOURCE.
- ③ EXISTING 120/208V INCOMING SERVICE FROM MAIN HOUSE TO BE REMOVED WITH ALL ASSOCIATED COMPONENTS BACK TO SOURCE.
- ④ EXISTING SECURITY EQUIPMENT TO BE RELOCATED.



1 BASEMENT
E-300 SCALE: 1/4" = 1'-0"

1. THESE GENERAL NOTES APPLY TO ALL POWER DRAWINGS.
2. REWORK AND EXTEND EXISTING FEEDERS, CONDUITS AND JUNCTION BOXES AS REQUIRED TO ACCOMMODATE NEW INSTALLATIONS.
3. REFER TO ARCHITECT'S/INTERIOR DESIGNER'S DRAWINGS FOR MOUNTING HEIGHTS AND COVERPLATE COLOURS.
4. ALLOW FOR SCANNING, X-RAY, AND CORING AS REQUIRED.
5. CONFIRM EXACT POWER REQUIREMENTS AND RECEPTACLE TYPES FOR SPECIAL EQUIPMENT WITH MANUFACTURER PRIOR TO INSTALL. PROVIDE HARDWARE CONNECTION IN LIEU OF RECEPTABLES OR VICE VERSA, AS REQUIRED.
6. CONFIRM ELECTRICAL REQUIREMENTS AND EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR PRIOR ROUGH-INS. REFER TO MECHANICAL SHOP DRAWINGS FOR MANUFACTURER'S ELECTRICAL DATA AND INSTALLATION REQUIREMENTS. ADVISE CONSULTANT OF ANY DISCREPANCIES.

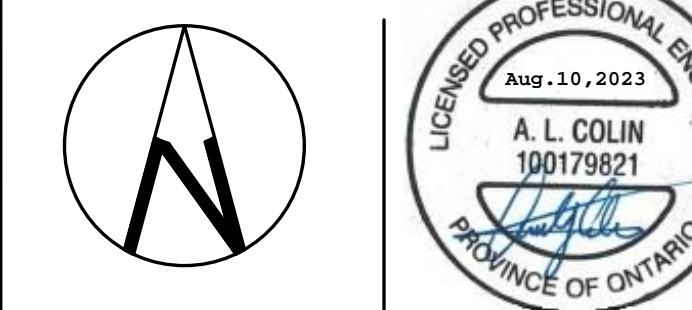
7. ALL FINAL CONNECTIONS TO MECHANICAL EQUIPMENT SHALL BE IN LIQUID TIGHT FLEXIBLE CONDUIT.
8. ROUTE ALL CONDUIT SYSTEMS AROUND DUCT WORK, BEAMS, AND PIPING AS REQUIRED TO ACCOMMODATE LAYOUT SHOWN.
9. PROVIDE LABELS FOR ALL RECEPTACLES TO IDENTIFY THE CIRCUIT FEEDING THE RECEPTACLE.
10. PROVIDE UPDATED, TYPE-WRITTEN PANEL DIRECTORIES AFTER COMPLETION OF WORK.
11. ALL FIRE ALARM DEVICES TO MATCH EXISTING IN THE MAIN HOUSE.



- 1 EXISTING INTRUSION PANEL DSC MAXSYS. KEEP THE EXISTING DATA CONNECTIONS. REPLACE POWER CONNECTION BY NEW. PROVIDE ALL REQUIRED MODULES TO ACCOMMODATE NEW INTRUSION DETECTION DEVICES.
- 2 INCOMING COMMUNICATIONS SERVICES AND BIX BOX TO REMAIN
- 3 NEW 120/208V INCOMING SERVICE FROM HYDRO TO NEW DISTRIBUTION PANEL DP-G IN BASEMENT.
- 4 NEW MAIN DISTRIBUTION PANEL
- 5 HYDRO METER CABINET
- 6 FIRE RATED PLYWOOD BACKBOARD FOR TELECOMMUNICATIONS AND SECURITY EQUIPMENT.
- 7 NEW UNDERGROUND FIRE ALARM CABLE TO MAIN HOUSE FIRE ALARM PANEL. USE EXISTING DUCT BANK IN SITE PLAN. REFER TO DRAWING E-101
- 8 EXISTING SECURITY EQUIPMENT IN NEW LOCATION. SECURITY CONTRACTOR TO RE-ROUTE EXISTING CABLES TO MATCH NEW LOCATION. ELECTRICAL CONTRACTOR TO COORDINATE WITH SECURITY CONTRACTOR FOR CONDUIT RE-ROUTING AND RENEW.
- 9 SIGNAL BOOSTER POWER SUPPLY FOR FIRE ALARM CABLEING GOING TO MAINHOUSE. FIRE ALARM CONTRACTOR TO SUPPLY AND INSTALL MIRCOM BPS-1100 OR EQUIVALENT.
- 10 POWER AND DATA CONNECTION TO NEW SECURITY PANEL, BY ELECTRICAL. SECURITY CONTRACTOR TO SUPPLY AND INSTALL NEW ONE DOOR SECURITY CONTROLLER FOR ELEVATOR CARD READER.
- 11 LOCKABLE FUSED DISCONNECT SWITCH WITH AUXILIARY CONTACT
- 12 CONDENSATE PUMPS SHALL BE FED FROM RELATED FCU POWER, PROVIDE NEW WIRE/CONDUIT AS REQUIRED. INCLUDE ALL ASSOCIATED COST

2 BASEMENT
E-300 SCALE: 1/4" = 1'-0"

5	2023/08/04	ISSUED FOR PERMIT/TENDER
4	2023/07/12	ISSUED FOR 95% REVIEW
3	2023/05/31	ISSUED FOR 50% CD
2	2023/04/26	ISSUED FOR 100% DD
1	2023/04/10	ISSUED FOR 50% DD
No.	Date	Action



Orientation	Stamp
Project Name and Address:	
<p align="center"> SPADINA MUSEUM GARAGE REHABILITATION AND SITE ACCESSIBILITY 285 SPADINA RD, TORONTO, ON M5R2V5 </p>	

Drawing title
BASEMENT – POWER &
SYSTEMS – DEMOLITION &
MODIFICATION

Scale: 1/4" = 1'-0"	Project No. 22626
Designer: N.J.	Date: 2023/01/25
Drawn by: R.A.	Checked by: R.M.
Drawing file:	Client Approval

Revision No.	Drawing No.
0	E-300

DEMOLITION - GENERAL NOTES:

1. THESE GENERAL NOTES APPLY TO ALL DEMO DRAWINGS.
2. REMOVE ALL WIRING, CONDUITS, EQUIPMENT, AND DEVICES NOT REQUIRED, TO SUIT NEW LAYOUT AND MAKE SAFE.
3. REMOVE FLOOR MONUMENTS AND CUT BACK ALL ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE. MAKE GOOD ALL FLOOR PENETRATIONS.
4. ENSURE ALL EXISTING FIRE ALARM CIRCUITS REMAIN AND ARE MADE SAFE FOR USE DURING THE CONSTRUCTION PHASE.
5. ENSURE ALL EXISTING EMERGENCY LIGHTING CIRCUITS AND EXIT LIGHTING CIRCUITS REMAIN AND ARE MADE SAFE FOR USE DURING THE CONSTRUCTION PHASE.

REFERENCE NOTES:

- 1 ALL POWER RECEPTACLES IN THIS AREA TO BE REMOVED
- 2 EXISTING DOOR SWITCH, SECURITY CONTRACTOR TO REMOVE THE DOOR CONTACT, RE-INSTALL IT AFTER COMPLETION OF CONSTRUCTION, AND TERMINATE AS REQUIRED. KEEP EXISTING WIRING AND CONDUITS BACK TO EXISTING INTRUSION PANEL IN BASEMENT.
- 3 EXISTING BASEBOARD HEATER POWER CONNECTIONS TO BE REMOVED WITH ALL ASSOCIATED COMPONENTS.
- 4 EXISTING POWER CONNECTION TO EXHAUST FAN TO BE REMOVED.

POWER - GENERAL NOTES:

1. THESE GENERAL NOTES APPLY TO ALL POWER DRAWINGS.
2. ALL MODIFICATIONS TO THE FIRE ALARM SYSTEM SHALL BE COMPLETED BY THE BASE BUILDING FIRE ALARM CONTRACTOR/VENDOR/MANUFACTURER. NEW FIRE ALARM DEVICES SHALL MATCH EXISTING. CONNECT NEW FIRE ALARM DEVICES TO EXISTING CIRCUITS WITH SPARE CAPACITY. PROVIDE NEW FIRE ALARM CIRCUITS AS REQUIRED. ALLOW FOR ALL ASSOCIATED COSTS AND ADDITIONAL COMPONENTS INCLUDING, BUT NOT LIMITED TO; ASSOCIATED EQUIPMENT, DEVICES, PROGRAMMING, TESTING, AND VERIFICATION TO MAKE SYSTEM OPERATIONAL AND CODE COMPLIANT. FIRE ALARM SYSTEM SHALL BE INSTALLED AS PER LATEST EDITION OF CAN/ULC-S524. FIRE ALARM VERIFICATION SHALL BE COMPLETED AS PER LATEST EDITION OF CAN/ULC-S537.
3. REWORK AND EXTEND EXISTING FEEDERS, CONDUITS AND JUNCTION BOXES AS REQUIRED TO ACCOMMODATE NEW INSTALLATIONS.
4. REFER TO ARCHITECT'S/INTERIOR DESIGNER'S DRAWINGS FOR MOUNTING HEIGHTS AND COVERPLATE COLOURS.

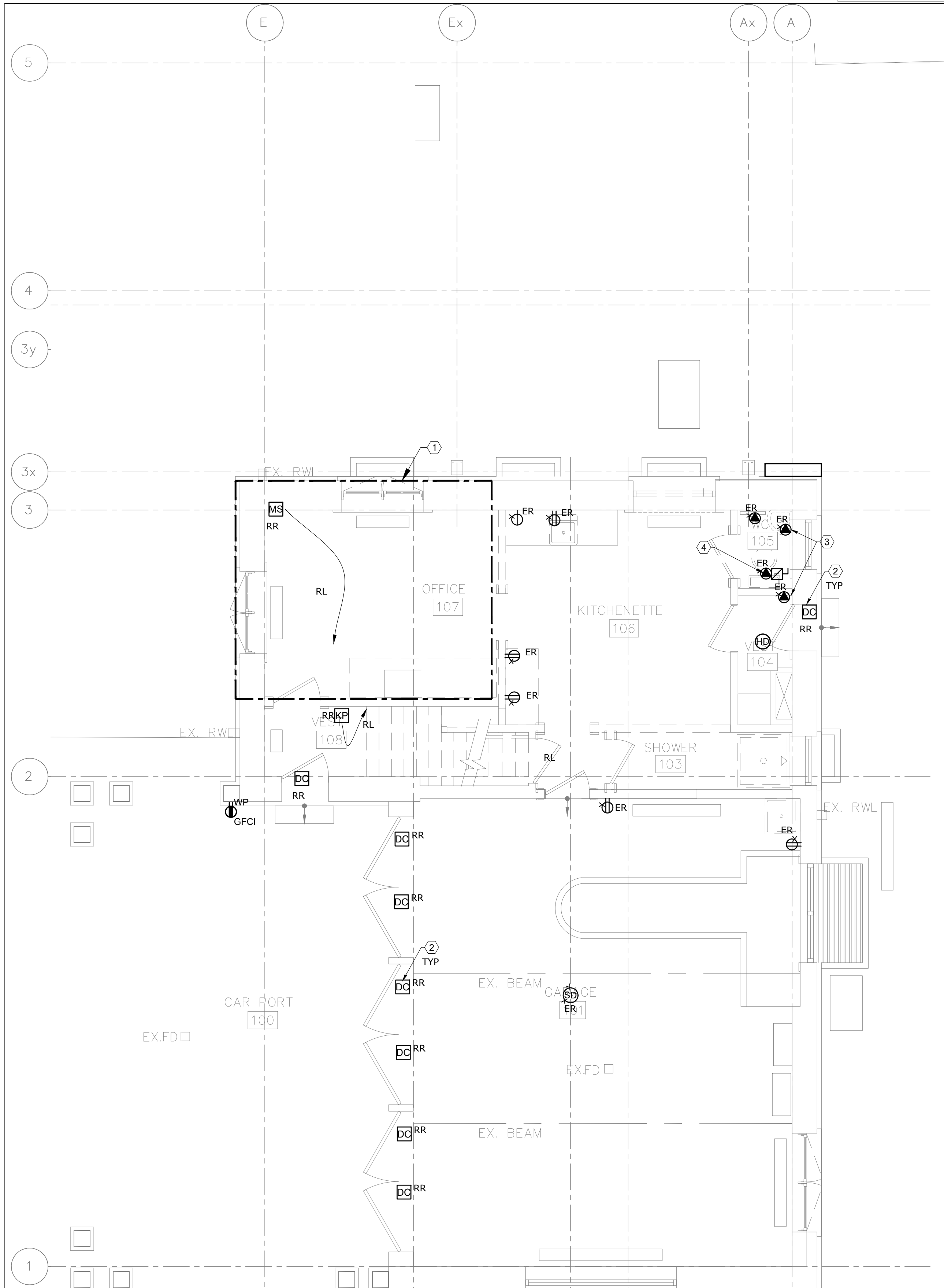
POWER - GENERAL NOTES: (CONTINUE)

5. ALLOW FOR SCANNING, X-RAY, AND CORING AS REQUIRED.
6. CONFIRM EXACT POWER REQUIREMENTS AND RECEPTACLE TYPES FOR SPECIAL EQUIPMENT WITH MANUFACTURER PRIOR TO INSTALL. PROVIDE HARDWARE CONNECTION IN LIEU OF RECEPTACLES OR VICE VERSA, AS REQUIRED.
7. CONFIRM ELECTRICAL REQUIREMENTS AND EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR PRIOR ROUGH-INS. REFER TO MECHANICAL SHOP DRAWINGS FOR MANUFACTURER'S ELECTRICAL DATA AND INSTALLATION REQUIREMENTS. ADVISE CONSULTANT OF ANY DISCREPANCIES.
8. ALL FINAL CONNECTIONS TO MECHANICAL EQUIPMENT SHALL BE IN LIQUID TIGHT FLEXIBLE CONDUIT.
9. ROUTE ALL CONDUIT SYSTEMS AROUND DUCT WORK, BEAMS, AND PIPING AS REQUIRED TO ACCOMMODATE LAYOUT SHOWN.

POWER - GENERAL NOTES: (CONTINUE)

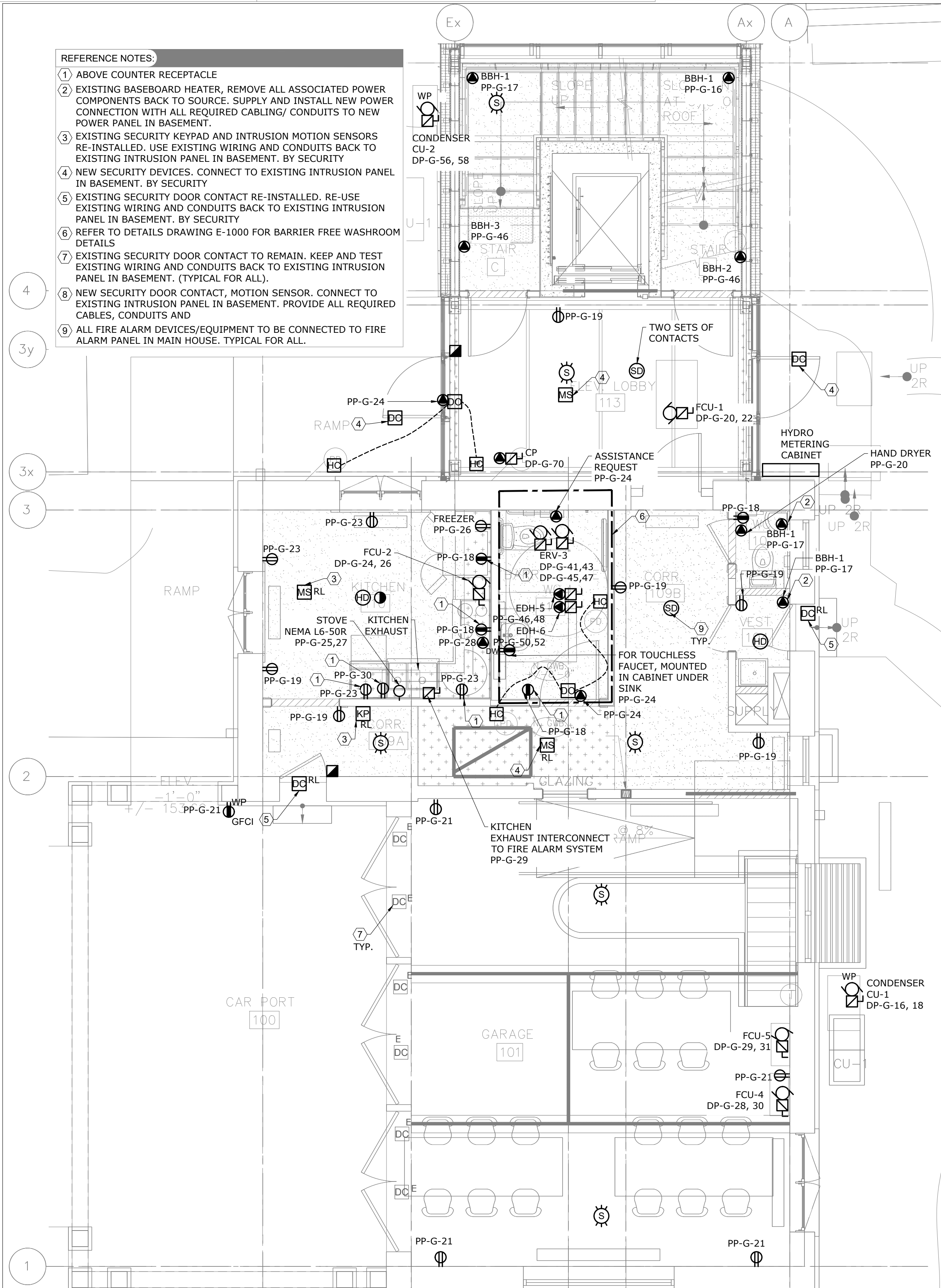
10. PROVIDE LABELS FOR ALL RECEPTACLES TO IDENTIFY THE CIRCUIT FEEDING THE RECEPTACLE.
11. PROVIDE UPDATED, TYPE-WRITTEN PANEL DIRECTORIES AFTER COMPLETION OF WORK.
12. ALL FIRE ALARM DEVICES TO MATCH EXISTING IN THE MAIN HOUSE.

DO NOT SCALE DRAWINGS. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND ADVISE CONSULTANTS OF ANY ERRORS OR OMISSIONS. NO VARIATIONS OR MODIFICATIONS TO WORK SHOWN SHALL BE IMPLEMENTED WITHOUT PRIOR WRITTEN APPROVAL. ALL PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED BY THE LATEST REVISION. ALL DRAWINGS AND SPECIFICATIONS REMAIN THE PROPERTY OF MAT 4SITE ENGINEERS LTD.



1 GROUND FLOOR - POWER & SYSTEMS - DEMOLITION

E-301 SCALE: 1/4" = 1'-0"



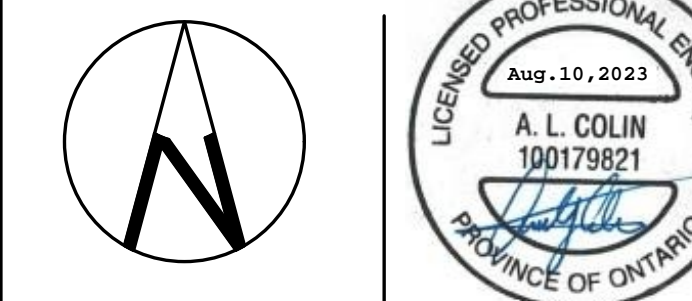
2 GROUND FLOOR - POWER & SYSTEMS - MODIFICATION

E-301 SCALE: 1/4" = 1'-0"

5	2023/08/04	ISSUED FOR PERMIT/TENDER
4	2023/07/12	ISSUED FOR 95% REVIEW
3	2023/05/31	ISSUED FOR 50% CD
2	2023/04/26	ISSUED FOR 100% DD
1	2023/04/10	ISSUED FOR 50% DD

No. Date Action

MAT 4SITE ENGINEERS LTD.
620 WILSON AVE., SUITE 300, TORONTO, ON M6K 1Z3
PHONE: 416-229-6574 FAX: 416-229-4105



Orientation Stamp

Project Name and Address:

**SPADINA MUSEUM
GARAGE REHABILITATION AND
SITE ACCESSIBILITY**
285 SPADINA RD,
TORONTO, ON M5R2V5

Drawing title
**GROUND FLOOR – POWER
& SYSTEMS – DEMOLITION
& MODIFICATION**

Scale:
1/4" = 1'-0"Project No.
22626Designer:
N.J.Date:
2023/01/25Drawn by:
R.A.Checked by:
R.M.Drawing file:
22626-E

Client Approval

Revision No.

0

Drawing No.

E-301

DEMOLITION - GENERAL NOTES:

1. THESE GENERAL NOTES APPLY TO ALL DEMO DRAWINGS.
2. REMOVE ALL WIRING, CONDUITS, EQUIPMENT, AND DEVICES NOT REQUIRED, TO SUIT NEW LAYOUT AND MAKE SAFE.
3. REMOVE FLOOR MONUMENTS AND CUT BACK ALL ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE. MAKE GOOD ALL FLOOR PENETRATIONS.
4. ENSURE ALL EXISTING FIRE ALARM CIRCUITS REMAIN AND ARE MADE SAFE FOR USE DURING THE CONSTRUCTION PHASE.
5. ENSURE ALL EXISTING EMERGENCY LIGHTING CIRCUITS AND EXIT LIGHTING CIRCUITS REMAIN AND ARE MADE SAFE FOR USE DURING THE CONSTRUCTION PHASE.

REFERENCE NOTES:

- 1 EXISTING NETWORK RACK TO REMAIN. KEEP ALL ASSOCIATED COMPONENTS. PROVIDE NEW POWER CONNECTION AS INDICATED ON DRAWING.
- 2 EXISTING WIRELESS ACCESS POINT TO REMAIN. KEEP ALL ASSOCIATED COMPONENTS.
- 3 EXISTING INTRUSION MOTION SENSOR. SECURITY TO RELOCATE, RE-ROUTE EXISTING WIRING TO MATCH NEW LOCATION. ELECTRICAL TO COORDINATE WITH SECURITY FOR RE-ROUTING OF CONDUITS.

POWER - GENERAL NOTES:

1. THESE GENERAL NOTES APPLY TO ALL POWER DRAWINGS.
2. ALL MODIFICATIONS TO THE FIRE ALARM SYSTEM SHALL BE COMPLETED BY THE BASE BUILDING FIRE ALARM CONTRACTOR/VENDOR/MANUFACTURER. NEW FIRE ALARM DEVICES SHALL MATCH EXISTING. CONNECT NEW FIRE ALARM DEVICES TO EXISTING CIRCUITS WITH SPARE CAPACITY. PROVIDE NEW FIRE ALARM CIRCUITS AS REQUIRED. ALLOW FOR ALL ASSOCIATED COSTS AND ADDITIONAL COMPONENTS INCLUDING, BUT NOT LIMITED TO; ASSOCIATED EQUIPMENT, DEVICES, PROGRAMMING, TESTING, AND VERIFICATION TO MAKE SYSTEM OPERATIONAL AND CODE COMPLIANT. FIRE ALARM SYSTEM SHALL BE INSTALLED AS PER LATEST EDITION OF CAN/ULC-S524. FIRE ALARM VERIFICATION SHALL BE COMPLETED AS PER LATEST EDITION OF CAN/ULC-S537.
3. REWORK AND EXTEND EXISTING FEEDERS, CONDUITS AND JUNCTION BOXES AS REQUIRED TO ACCOMMODATE NEW INSTALLATIONS.
4. REFER TO ARCHITECT'S/INTERIOR DESIGNER'S DRAWINGS FOR MOUNTING HEIGHTS AND COVERPLATE COLOURS.

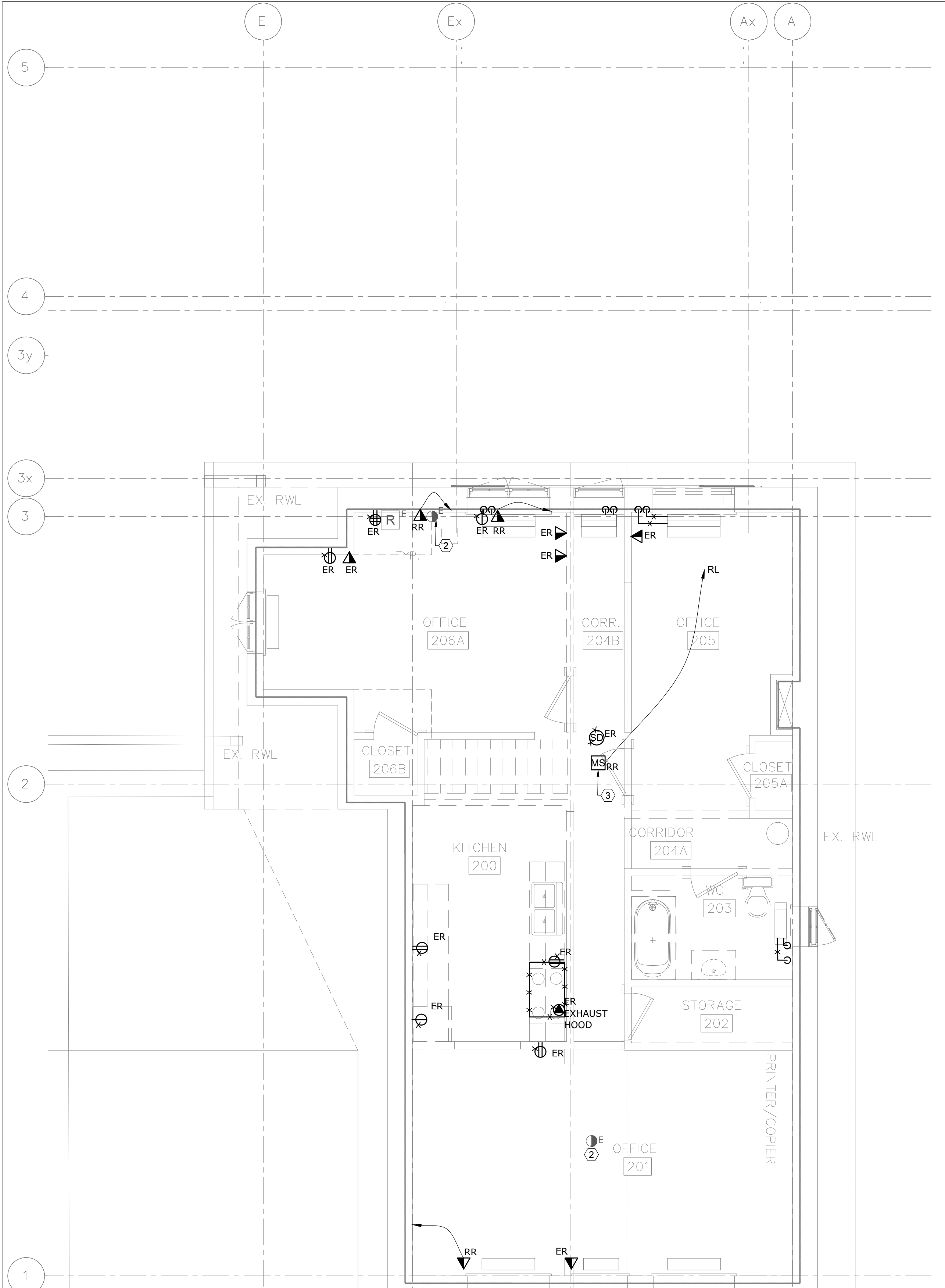
POWER - GENERAL NOTES: (CONTINUE)

5. ALLOW FOR SCANNING, X-RAY, AND CORING AS REQUIRED.
6. CONFIRM EXACT POWER REQUIREMENTS AND RECEPTACLE TYPES FOR SPECIAL EQUIPMENT WITH MANUFACTURER PRIOR TO INSTALL. PROVIDE HARDWIRE CONNECTION IN LIEU OF RECEPTACLES OR VICE VERSA, AS REQUIRED.
7. CONFIRM ELECTRICAL REQUIREMENTS AND EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR PRIOR ROUGH-INS. REFER TO MECHANICAL SHOP DRAWINGS FOR MANUFACTURER'S ELECTRICAL DATA AND INSTALLATION REQUIREMENTS. ADVISE CONSULTANT OF ANY DISCREPANCIES.
8. ALL FINAL CONNECTIONS TO MECHANICAL EQUIPMENT SHALL BE IN LIQUID TIGHT FLEXIBLE CONDUIT.
9. ROUTE ALL CONDUIT SYSTEMS AROUND DUCT WORK, BEAMS, AND PIPING AS REQUIRED TO ACCOMMODATE LAYOUT SHOWN.

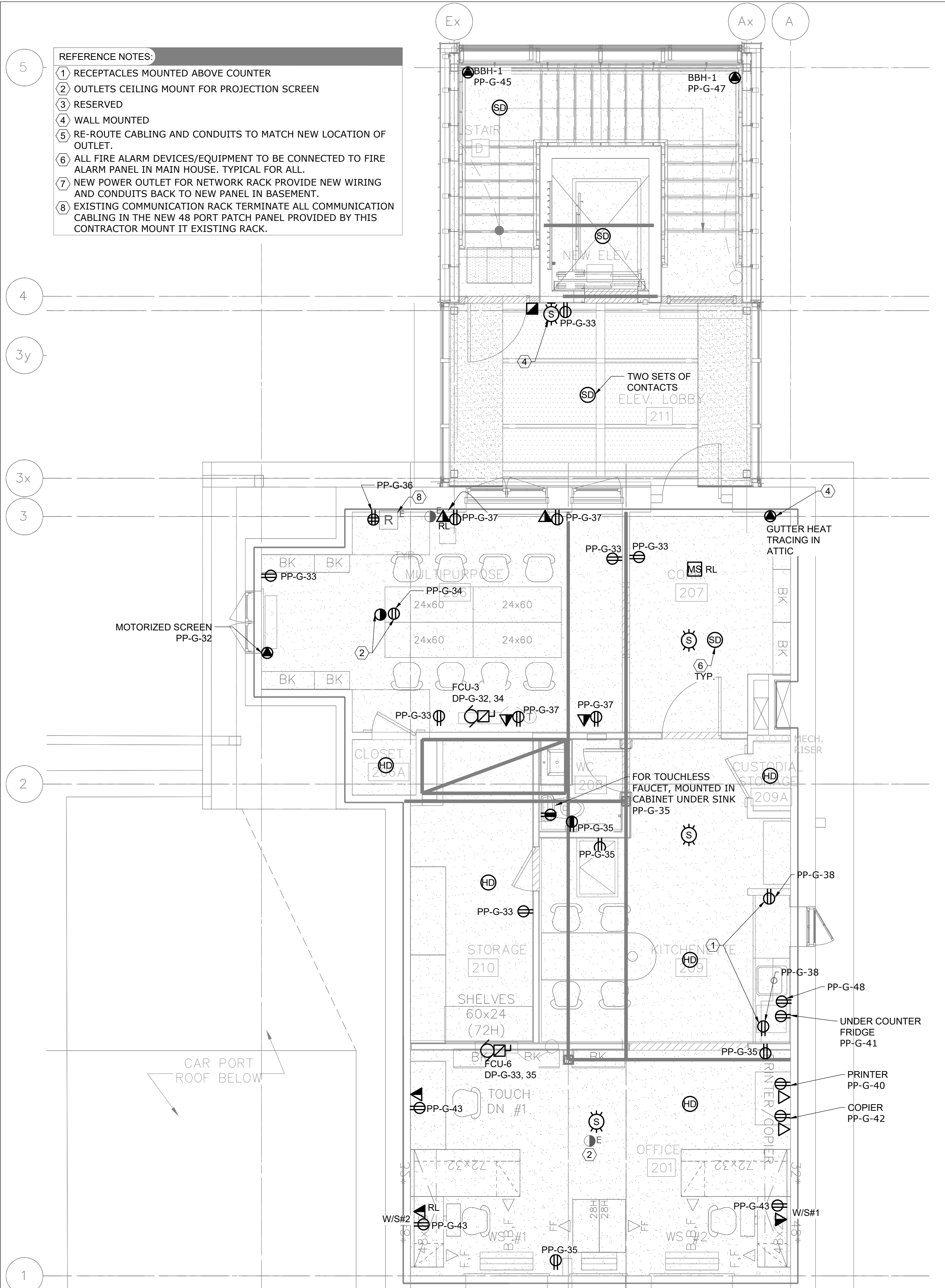
POWER - GENERAL NOTES: (CONTINUE)

10. PROVIDE LABELS FOR ALL RECEPTACLES TO IDENTIFY THE CIRCUIT FEEDING THE RECEPTACLE.
11. PROVIDE UPDATED, TYPE-WRITTEN PANEL DIRECTORIES AFTER COMPLETION OF WORK.
12. PROVIDE FIRE ALARM TIE-IN TO NEW MAGLOCKS SUCH THAT MAGLOCKS RELEASE UPON ACTIVATION OF ANY FIRE ALARM SIGNAL. MAGLOCKS SHALL ALSO RELEASE UPON ACTIVATION OF LOCAL MANUAL PULL STATION THROUGH HARD WIRED CONNECTION DIRECTLY FROM PULL STATION. PROVIDE TIE-IN TO EXISTING RELEASE/RESET KEYSWITCH LOCATED IN THE XXTH FLOOR ELECTRICAL ROOM BESIDE THE FIRE ALARM PANEL. CO-ORDINATE WITH SECURITY CONTRACTOR. FIRE ALARM VERIFICATION.
13. ALL FIRE ALARM DEVICES TO MATCH EXISTING IN THE MAIN HOUSE

DO NOT SCALE DRAWINGS. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND ADVISE CONSULTANTS OF ANY ERRORS OR OMISSIONS. NO VARIATIONS OR MODIFICATIONS TO WORK SHOWN SHALL BE IMPLEMENTED WITHOUT PRIOR WRITTEN APPROVAL. ALL PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED BY THE LATEST REVISION. ALL DRAWINGS AND SPECIFICATIONS REMAIN THE PROPERTY OF MAT 4SITE ENGINEERS LTD.



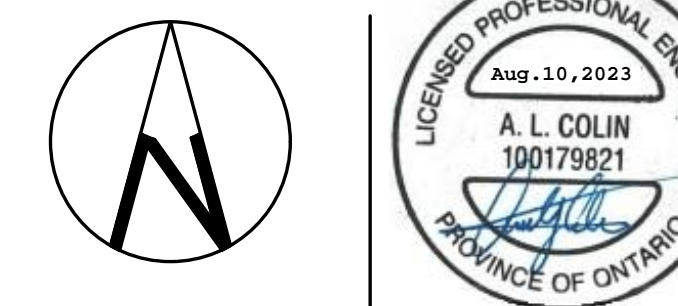
1 SECOND FLOOR - POWER & SYSTEMS - DEMOLITION
E-302 SCALE: 1/4" = 1'-0"



2 SECOND FLOOR - POWER & SYSTEMS - MODIFICATION
E-302 SCALE: 1/4" = 1'-0"

5	2023/08/04	ISSUED FOR PERMIT/TENDER
4	2023/07/12	ISSUED FOR 95% REVIEW
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1	2023/04/10	ISSUED FOR 50% DD
No.	Date	Action

MAT 4SITE ENGINEERS LTD.
620 WILSON AVE., SUITE 300, TORONTO, ON M6K 1Z3
PHONE: 416-229-6574 FAX: 416-229-4105

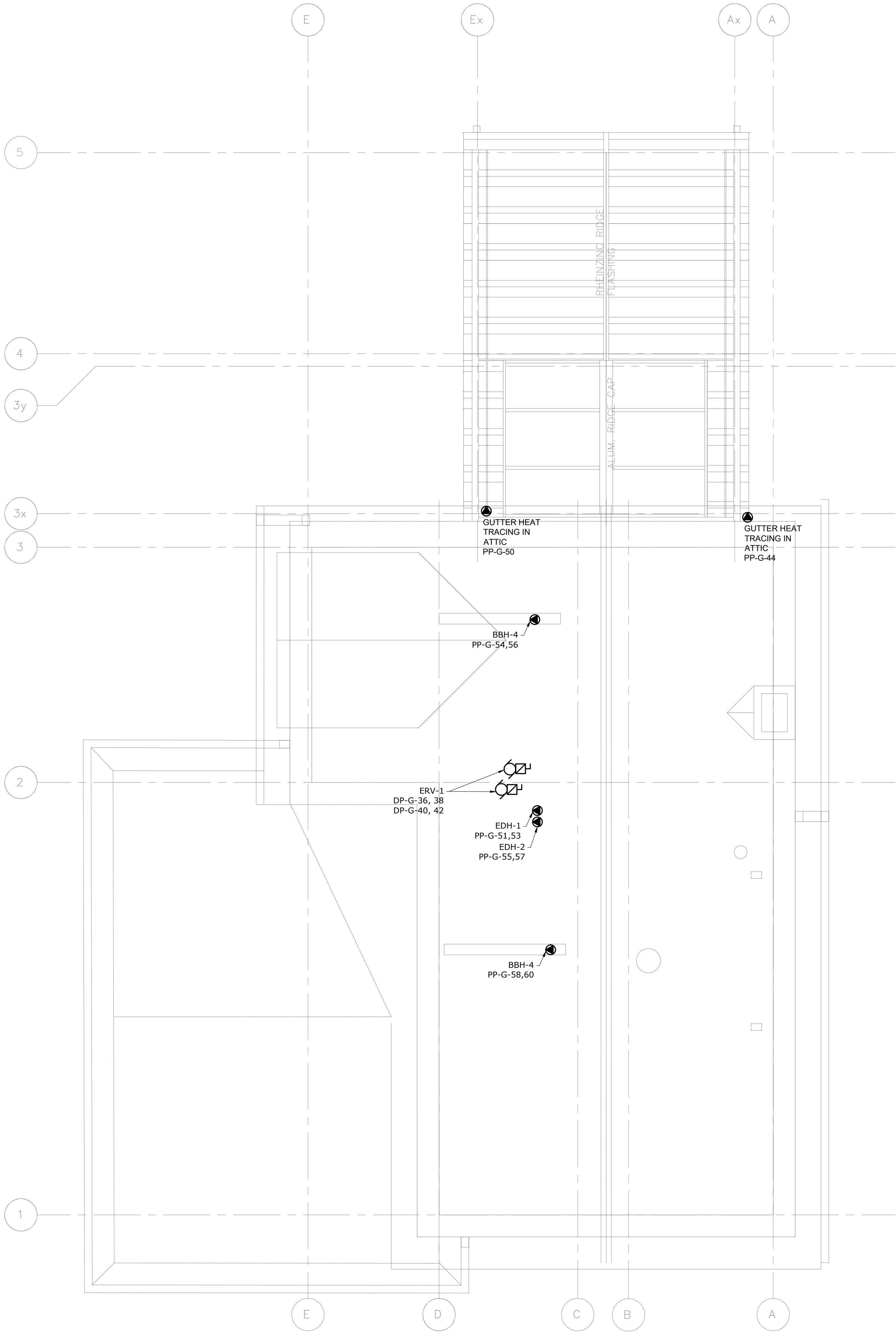


Project Name and Address:
**SPADINA MUSEUM
GARAGE REHABILITATION AND
SITE ACCESSIBILITY**
285 SPADINA RD,
TORONTO, ON M5R2V5

Drawing title
**SECOND FLOOR - POWER
& SYSTEM - DEMOLITION
& MODIFICATION**

Scale: 1/4" = 1'-0"	Project No. 22626
Designer: N.J.	Date: 2023/01/25
Drawn by: R.A.	Checked by: R.M.
Drawing file: 22626-E	Client Approval

Revision No.	Drawing No.
0	E-302

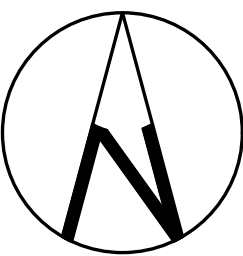


- POWER - GENERAL NOTES:
- THESE GENERAL NOTES APPLY TO ALL POWER DRAWINGS.
 - ALL MODIFICATIONS TO THE FIRE ALARM SYSTEM SHALL BE COMPLETED BY THE BASE BUILDING FIRE ALARM CONTRACTOR/VENDOR/MANUFACTURER. NEW FIRE ALARM DEVICES SHALL MATCH EXISTING. CONNECT NEW FIRE ALARM DEVICES TO EXISTING CIRCUITS WITH SPARE CAPACITY. PROVIDE NEW FIRE ALARM CIRCUITS AS REQUIRED. ALLOW FOR ALL ASSOCIATED COSTS AND ADDITIONAL COMPONENTS INCLUDING, BUT NOT LIMITED TO: ASSOCIATED EQUIPMENT, DEVICES, PROGRAMMING, TESTING, AND VERIFICATION TO MAKE SYSTEM OPERATIONAL AND CODE COMPLIANT. FIRE ALARM SYSTEM SHALL BE INSTALLED AS PER LATEST EDITION OF CAN/ULC-S524. FIRE ALARM VERIFICATION SHALL BE COMPLETED AS PER LATEST EDITION OF CAN/ULC-S537.
 - REWORK AND EXTEND EXISTING FEEDERS, CONDUITS AND JUNCTION BOXES AS REQUIRED TO ACCOMMODATE NEW INSTALLATIONS.
 - REFER TO ARCHITECT'S/INTERIOR DESIGNER'S DRAWINGS FOR MOUNTING HEIGHTS AND COVERPLATE COLOURS.
 - ALLOW FOR SCANNING, X-RAY, AND CORING AS REQUIRED.
 - CONFIRM EXACT POWER REQUIREMENTS AND RECEPTACLE TYPES FOR SPECIAL EQUIPMENT WITH MANUFACTURER PRIOR TO INSTALL. PROVIDE HARDWIRE CONNECTION IN LIEU OF RECEPTACLES OR VICE VERSA, AS REQUIRED.
 - CONFIRM ELECTRICAL REQUIREMENTS AND EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR PRIOR ROUGH-INS. REFER TO MECHANICAL SHOP DRAWINGS FOR MANUFACTURER'S ELECTRICAL DATA AND INSTALLATION REQUIREMENTS. ADVISE CONSULTANT OF ANY DISCREPANCIES.
 - ALL FINAL CONNECTIONS TO MECHANICAL EQUIPMENT SHALL BE IN LIQUID TIGHT FLEXIBLE CONDUIT.
 - ROUTE ALL CONDUIT SYSTEMS AROUND DUCT WORK, BEAMS, AND PIPING AS REQUIRED TO ACCOMMODATE LAYOUT SHOWN.
 - PROVIDE LABELS FOR ALL RECEPTACLES TO IDENTIFY THE CIRCUIT FEEDING THE RECEPTACLE.
 - PROVIDE UPDATED, TYPE-WRITTEN PANEL DIRECTORIES AFTER COMPLETION OF WORK.

DO NOT SCALE DRAWINGS. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND ADVISE CONSULTANTS OF ANY ERRORS OR OMISSIONS. NO VARIATIONS OR MODIFICATIONS TO WORK SHOWN SHALL BE IMPLEMENTED WITHOUT PRIOR WRITTEN APPROVAL. ALL PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED BY THE LATEST REVISION. ALL DRAWINGS AND SPECIFICATIONS REMAIN THE PROPERTY OF MAT 4SITE ENGINEERS LTD.

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No.	Date	Action

MAT 4SITE ENGINEERS LTD.
620 WILSON AVE., SUITE 300, TORONTO, ON M6K 1Z3
PHONE: 416-229-6574 FAX: 416-229-4105



Orientation Stamp

Project Name and Address:

**SPADINA MUSEUM
GARAGE REHABILITATION AND
SITE ACCESSIBILITY**
285 SPADINA RD,
TORONTO, ON M5R2V5

Drawing title

**ATTIC – POWER &
SYSTEMS – MODIFICATION**

Scale: 1/4" = 1'-0"	Project No. 22626
Designer: N.J.	Date: 2023/01/25
Drawn by: R.A.	Checked by: R.M.
Drawing file: 22626–E	Client Approval

Revision No.	Drawing No.
0	E–306

TYPE	VOLT.	LAMP TYPE	DESCRIPTION	REMARKS
L1	120 V	W: 38.8W LUMEN:4000LM CT:4000K CRI:80	METALUX NWS SELECTABLE WRAP, 4', SURFACE OR SUSPENDED, CEILING OR WALL MOUNT FIXTURE C/W LED LAMPS. SUITABLE FOR DAMP AREAS.	
L2	120 V	W: 31.7W LUMEN:4500LM CT:4000K CRI:80	METALUX CGTX PANEL, 2X4' HIGH EFFICACY DRY WALL RECESSED LED, LISTED FOR DAMP LOCATION	
L3	120 V	W: 32W LUMEN:3000LM CT:4000K CRI:90	PORTFOLIO LD56, 6' ROUND, SHALLOW DOWNLIGHT CEILING RECESSED MOUNT FIXTURE. GALVANIZED STEEL PLASTER FRAME, WITH FROSTED ACRYLIC RING. C/W 6W BATTERY PROVIDE 30 MINUTES LIGHTING FOR EMERGENCY FIXTURES ONLY. REFER TO FLOOR PLANS.	
L4	120 V	W: 20.6W LUMEN:2649LM CT:4000K CRI:82	METALUX NWS SELECTABLE WRAP, 2', CEILING OR WALL SURFACE MOUNT FIXTURE. C/W LED LAMPS. SUITABLE FOR DAMP AREAS.	
L5	120 V	W: 20W LUMEN:2771LM CT:4000K CRI:80	METALUX SNX LENSED LW, LED STRIPLIGHT 2' WALL SURFACE MOUNT, ROUND FROST LENS.	
L6	120 V	W: 3.5 / 11.5W LUMEN: CT:3000K CRI:80	IO LED CoveSelect , 1'84' LENGTH ARCHITECTURAL COVE LIGHT WITH INTEGRAL DRIVER, 6' LENGTH, LISTED FOR DAMP LOCATIONS. FIELD SELECTABLE LUMEN, 350 /700 LM/FT	
L7	120 V	W: 27.6W LUMEN:3000LM CT:3500K CRI:80	PORTFOLIO LSR58B EC88 8L, EXTERIOR 8" ROUND , 8" REFLECTOR, CEILING PENDANT/ WIDE BEAM, LISTED FOR PROTECTED WET LOCATION WITH COVERED CEILING	
L8	120 V	W: 31.7W LUMEN:4200LM CT:4000K CRI:80	METALUX CGTX PANEL, 1X4' HIGH EFFICACY DRY WALL RECESSED, SURFACE OR PENDANT LED, LISTED FOR DAMP LOCATION	
L9	120 V	W:19W/m LUMEN:2000LM /m CT:2700K CRI:90+	LUMICREST LED STRIP LIGHT PRO SERIES, DOTLESS WHITE , 1% DIMMING, C/W AC DIMMABLE HARDWIRED POWER SUPPLY, DRIVERS, AND CONTROLLERS AS REQUIRED..	
L10	120 V	W: 35.1W LUMEN:4000LM CT:4000K CRI:80	METALUX - WSL LINEAR 1'X4', CEILING, SURFACE OR SUSPENDED MOUNT FIXTURE C/W LED LAMPS. SUITABLE FOR DAMP AREAS.	
L11	120 V	W: 51W LUMEN:5797LM CT:4000K CRI:70	LUMARK NFLD-S-C15 NIGHT FALCON SMALL SOLID STATE LED FLOOD LIGHT	
L12-P	120V		COOPER NEO-RAY, SUSPENDED ON AIRCRAFT CABLE 120V HIGH PERFORMANCE, FINISHES AND COLOUR TO BE DETERMINED AT THE TIME OF SHOP DRAWINGS (STANDARD COLOURS)	
BU-1	120V/24V	W: 144W	LUMACELL RGS SERIES CATALOGUE# RG24S144-2-LD13-AT, WALL MOUNT EMERGENCY BATTERY UNIT COMPLETE WITH MR16 LED 4W DOUBLE REMOTE HEADS AND ASSOCIATED RECEPTACLE	
E1	24V	4W	SINGLE REMOTE EMERGENCY HEAD LUMACELL MR16 LED	
E2	24V	4W / HEAD	DOUBLE REMOTE EMERGENCY HEADS LUMACELL MR16 LED.	
X1	24V	2.5W	EDGE-LIT RUNNING MAN PICTOGRAM EXIT SIGN. BEGHELLI: GUIDA SERIES. SINGLE FACE EXIT LIGHT C/W PICTOGRAM, AND NICKEL CADMIUM BATTERIES PROVIDE MINIMUM 30 MINUTES OF EMERGENCY. CAT # GD-RMLRC1-0LR-UDC-120347V-BA DOUBLE FACE EXIT LIGHT C/W PICTOGRAM CAT # GD-RMLRC2-0LR-UDC-120347V-BA CEILING OR WALL, SURFACE OR RECESSED MOUNT.	
C1-SM	120V	LUMEN:6000LM	COOPER PORTFOLIO, C/W BATTERY BACKUP, FINISHES AND COLOUR TO BE DETERMINED AT THE TIME OF SHOP DRAWINGS (STANDARD COLOURS)	
LP-G-2	120V		OCL SUSPENDED 120V LED2 , FINISHES AND COLOUR TO BE DETERMINED AT THE TIME OF SHOP DRAWINGS (STANDARD COLOURS)	

NOTES:
1. ALL FINISH, TRIMS AND MOUNTING HEIGHTS TO BE CONFIRMED BY DESIGNER.

EMERGENCY LIGHT SCHEDULE							
UNIT DESIGNATION	LOCATION OF BATTERY UNIT	VOLTAGE	DEVICE TYPE	QUANTITIES	WATTAGE	TOTAL LOAD (W)	MAXIMUM CAPACITY (W)
BU-1	ELECTRICAL ROOM (BASEMENT)	120/24V	BU-1	1	8	75	144
			E1	12	4		
			X1	1	2.5		
BU-1	CORRIDOR (GROUND)	120/24V	BU-1	1	8	75	144
			E1	12	4		
			X1	2	2.5		
BU-1	STORAGE (SECOND)	120/24V	BU-1	1	8	65	144
			E1	12	4		

NOTES:

1. PROVIDE BREAKER LOCK-ON DEVICES FOR ALL CIRCUIT(S) FEEDING BATTERY UNITS.
2. REFER TO DRAWINGS FOR LOCATIONS OF ALL DEVICES.
3. THE ELECTRICAL CONTRACTOR IS TO MEASURE THE ILLUMINATION OF THE FLOOR AT NIGHT WITH EMERGENCY LIGHTING ON ONLY, AND SEND DRAWING SHOWING THE MAXIMUM AND MINIMUM LEVEL OF ILLUMINATION, TO CONSULTING ENGINEER, FOR REVIEW.
4. PROVIDE LETTER OF CERTIFICATION THAT EMERGENCY LIGHTING HAS BEEN INSTALLED IN ACCORDANCE WITH CONTRACT DOCUMENTS AND LATEST EDITION OF THE ONTARIO BUILDING CODE SECTIONS [3.2.7.3 AND 3.2.7.4]. LETTER TO BE INCLUDED AS PART OF CLOSE-OUT DOCUMENT SUBMITTAL PACKAGE.
4. PROVIDE ALL MOUNTING SHELVES FOR INSTALLATION OF BATTERY UNITS. SIZE TO SUIT.

DO NOT SCALE DRAWINGS.
CONTRACTOR MUST VERIFY ALL DIMENSIONS AND ADVISE CONSULTANTS
OF ANY ERRORS OR OMISSIONS.
NO VARIATIONS OR MODIFICATIONS TO WORK SHOWN SHALL BE
IMPLEMENTED WITHOUT PRIOR WRITTEN APPROVAL.
ALL PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED BY THE
LATEST REVISION.
ALL DRAWINGS AND SPECIFICATIONS REMAIN THE PROPERTY OF
MAT 4SITE ENGINEERS LTD.

5	2023/08/04	ISSUED FOR PERMIT/TENDER
4	2023/07/12	ISSUED FOR 95% REVIEW
3	2023/05/31	ISSUED FOR 50% CD
2	2023/04/26	ISSUED FOR 100% DD
1	2023/04/10	ISSUED FOR 50% DD
No. Date		Action



Orientation	Stamp
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Project Name and Address:

SPADINA MUSEUM
GARAGE REHABILITATION AND
SITE ACCESSIBILITY
285 SPADINA RD,
TORONTO, ON M5R2V5

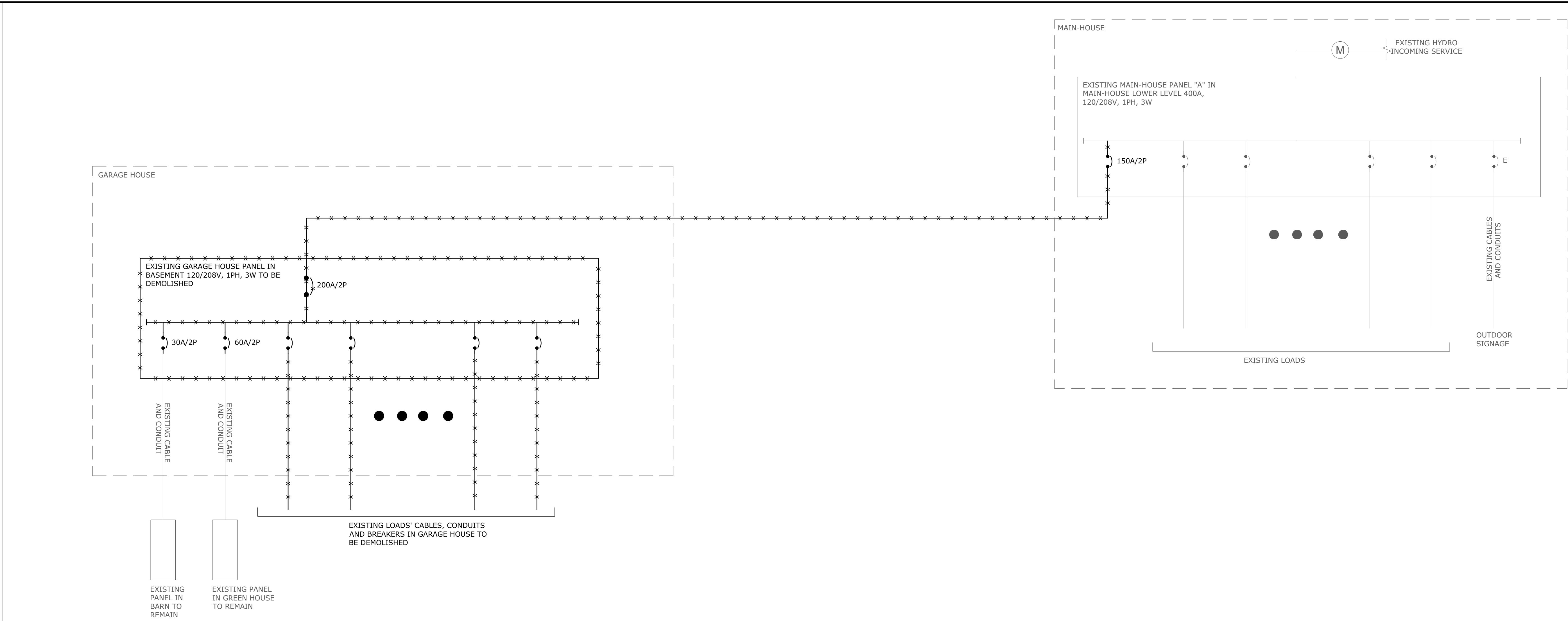
Drawing title
LUMINAIRE SCHEDULE

Scale: N.T.S.	Project No. 22626
Designer: N.J.	Date: 2023/01/25
Drawn by: R.A.	Checked by: R.M.
Drawing file: 22626-E	Client Approval

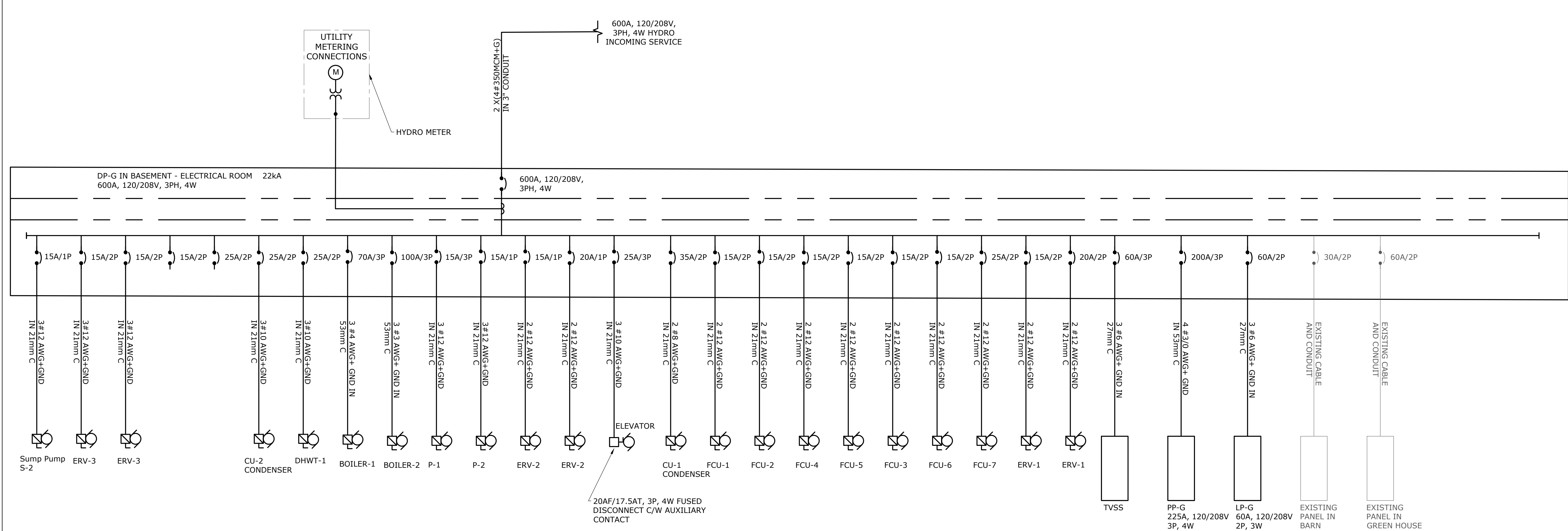
Revision No.	Drawing No.
0	E-800

PANEL: DP-G														
120/208V, 3Ø, 4W, 15kAIC														
DESCRIPTION	MAINS: 600 AMPS													
	MOUNTING: SURFACE													
	DEMAND FACTOR	LOAD (kW)	DEMAND LOAD (kW)	BKR SIZE	CIRCUITS		BKR SIZE	DEMAND LOAD (kW)	LOAD (kW)	DEMAND FACTOR	LOCATION: BASEMENT, ELEC ROOM FED FROM:			
											DESCRIPTION			
HWT-1	1.00	2.00	2.00	25	1	A	2	15	0.18	0.20	0.90	ERV-2		
DOMESTIC HOT WATER	1.00	2.00	2.00	2P	3	B	4	2P	0.18	0.20	0.90	BASEMENT FURNACE ROOM		
P-1	1.00	0.38	0.38	15	5	C	6	20	0.18	0.20	0.90	ERV-2		
RECIRCULATION PUMP	1.00	0.38	0.38	2P	7	A	8	2P	0.18	0.20	0.90	BASEMENT FURNACE ROOM		
SPARE	1.00	0.38	0.38	15	9	B	10	25	2.42	3.46	0.70			
B-1	1.00	6.72	6.72	70	11	C	12	I	2.42	3.46	0.70	ELEVATOR		
BOILER	1.00	6.73	6.73	I	13	A	14	3P	2.42	3.46	0.70			
	1.00	6.73	6.73	3P	15	B	16	35	3.00	3.00	1.00	CU-1		
S-2 SUMP PUMP	1.00	0.13	0.13	15	17	C	18	2P	3.00	3.00	1.00	CONDENSER		
P-2	1.00	0.20	0.20	15	19	A	20	15	0.25	0.25	1.00	FCU-1		
PP-G	1.00	0.20	0.20	2P	21	B	22	2P	0.25	0.25	1.00	GROUND FLOOR ELEVATOR LOBBY		
PANEL	1.00	27.00	27.00	200	23	C	24	15	0.05	0.05	1.00	FCU-2		
	1.00	22.00	22.00	I	25	A	26	2P	0.05	0.05	1.00	KITCHEN		
	1.00	21.00	21.00	3P	27	B	28	15	0.05	0.05	1.00	FCU-4		
FCU-5	0.90	0.05	0.05	15	29	C	30	2P	0.05	0.05	1.00			
	0.90	0.05	0.05	2P	31	A	32	15	0.05	0.05	1.00	FCU-3		
FCU-6	0.90	0.05	0.05	15	33	B	34	2P	0.05	0.05	1.00			
	0.90	0.05	0.05	2P	35	C	36	15	0.50	0.50	1.00	ERV-1		
FCU-7	0.90	0.25	0.23	25	37	A	38	2P	0.50	0.50	1.00	IN ATTIC		
IN BASEMENT ELEV. MACH. RM.	0.90	0.25	0.23	2P	39	B	40	20	0.50	0.50	1.00	ERV-1		
ERV-3	0.80	0.17	0.14	15	41	C	42	2P	0.50	0.50	1.00	IN ATTIC		
	0.80	0.17	0.14	2P	43	A	44	40	2.30	2.30	1.00	LP-G PANEL		
ERV-3	0.80	0.17	0.14	15	45	B	46	2P	1.20	1.20	1.00			
	0.80	0.17	0.14	2P	47	C	48	15			1.00	SPARE		
spare	1.00	0.40	0.40	15	49	A	50	2P			1.00			
	1.00	0.40	0.40	2P	51	B	52	20			1.00	SPARE		
spare	1.00	0.40	0.40	15	53	C	54	2P			1.00			
	1.00	0.40	0.40	2P	55	A	56	25	0.45	0.50	0.90	CU-2		
BARN PANEL	1.00	2.50	2.50	30	57	B	58	2P	0.45	0.50	0.90	CONDENSER		
	1.00	2.50	2.50	2P	59	C	60	15		0.00		spare		
GREEN HOUSE PANEL	1.00	5.00	5.00	60	61	A	62	15		0.00		spare		
	1.00	5.00	5.00	2P	63	B	64	15		0.00		spare		
B-2	1.00	10.08	10.08	110	65	C	66	3P		0.00	1.00			
Boiler	1.00	10.08	10.08	I	67	A	68	I		0.00	1.00			
	1.00	10.08	10.08	3P	69	B	70	60		0.00	1.00	TVSS		
SPARE				15	71	C	72	15						
DEMAND LOAD A (kW)				54.0				CONNECTED LOAD A (kW)				55.2		
DEMAND LOAD B (kW)				56.8				CONNECTED LOAD B (kW)				58.0		
DEMAND LOAD C (kW)				54.3				CONNECTED LOAD C (kW)				55.4		
TOTAL DEMAND (kW)				165.0				TOTAL CONNECTED (kW)				168.5		
OPTIONS:														
<input type="checkbox"/> ISOLATED GROUND BUS							<input type="checkbox"/> FEED THROUGH LUGS							
<input type="checkbox"/> DOUBLE NEUTRAL							<input type="checkbox"/> DOUBLE TUB							
<input checked="" type="checkbox"/> SPRINKLER PROOF							<input type="checkbox"/> OTHER:							
<input type="checkbox"/> MAIN BREAKER: XXXA-3P							1. ALL BREAKERS FOR EMERGENCY AND NIGHT LIGHTING ARE TO BE LOCKED ON.							
<input type="checkbox"/> NEMA 3X14														
<input checked="" type="checkbox"/> COPPER BUS														
<input type="checkbox"/> ALUMINUM BUS														
<input type="checkbox"/> MAIN LUGS ONLY														

PANEL: PP-G																											
120/208V, 3Ø, 4W, 15kAIC																											
MAINS: 225 AMPS																											
DESCRIPTION	DEMAND FACTOR	LOAD (kW)	DEMAND LOAD (kW)	BKR SIZE	MOUNTING: SURFACE																						
					CIRCUITS		BKR SIZE	DEMAND LOAD (kW)	LOAD (kW)	DEMAND FACTOR	DESCRIPTION																
BASEMENT GENERAL RECEPTACLES	0.80	1.26	1.01	15	1	A						2	15	0.50	0.50	1.00	BASEMENT ELECTRIC TRAP										
BASEMENT SECURITY EQUIPMENT	1.00	0.50	0.50	15	3	B	4	15	1.20	1.50	0.80	BASEMENT WASHER															
BASEMENT FIRE ALARM SIGNAL BOOSTER	1.00	0.50	0.50	15	5	C	6	40	2.40	3.00	0.80	BASEMENT DRYER															
BASEMENT BASEBOARD HEATER BBH-1	1.00	0.60	0.60	15	7	A	8	2P	2.40	3.00	0.80																
BASEMENT BASEBOARD HEATER BBH-1	1.00	0.60	0.60	15	9	B	10	15	0.60	0.60	1.00	BASEMENT BASEBOARD HEATER BBH-1															
BASEMENT ELEV. CAB FAN, LIGHT, PLUG	1.00	0.50	0.50	15	11	C	12	15	0.60	0.60	1.00	BASEMENT BASEBOARD HEATER BBH-1															
ELEVATOR CONTROLLER	1.00	0.80	0.80	15	13	A	14	15	0.60	0.60	1.00	GROUND FL. BASEBOARD HEATER BBH-1															
ELEV. MACH. RM. + ELEV. SHAFT REC.	1.00	0.40	0.40	15	15	B	16	15	1.20	1.20	1.00	GROUND FL. BASEBOARD HEATER BBH-1															
GROUND FL. BASEBOARD HEATER BBH-1	1.00	1.20	1.20	15	17	C	18	15	0.58	0.72	0.80	GROUND FL. GH RECEPTACLES															
GROUND FL. GENERAL RECEPTACLES	0.80	1.08	0.86	15	19	A	20	15	0.96	1.20	0.80	GROUND FL. HAND DRYER															
GROUND FL. GARAGE RECEPTACLES	0.80	0.90	0.72	15	21	B	22	15																			
KITCHEN COUNTER RECEPTACLES	0.80	0.72	0.58	15	23	C	24	15	0.40	0.50	0.80	GROUND FL. WASHROOM + DO															
KITCHEN STOVE	0.80	3.00	2.40	40	25	A	26	15	0.96	1.20	0.80	KITCHEN FREEZER															
	0.80	3.00	2.40	2P	27	B	28	15	1.20	1.50	0.80	KITCHEN DISHWASHER															
KITCHEN EXHAUST HOOD	0.80	0.50	0.40	15	29	C	30	15				SPARE															
SPARE				15	31	A	32	15	0.64	0.80	0.80	BOARDRM. MOTORIZED SCREEN															
2ND FLOOR GENERAL RECEPTACLES	0.80	1.08	0.86	15	33	B	34	15	0.64	0.80	0.80	BOARDRM. PROJECTION SCREEN															
2ND FLOOR GENERAL RECEPTACLES	0.80	0.72	0.58	15	35	C	36	15	1.50	1.50	1.00	BOARDRM. NETWORK RACK															
BOARD ROOM RECEPTACLES	0.80	1.20	0.96	15	37	A	38	15	0.96	1.20	0.80	2ND FLOOR COUNTER REC.															
				15	39	B	40	15	0.96	1.20	0.80	2ND FLOOR PRINTER															
2ND FLOOR U/C FRIDGE	0.80	1.50	1.20	15	41	C	42	15	0.96	1.20	0.80	2ND FLOOR COPIER															
2ND FLOOR WORK STATION	0.80	0.90	0.72	15	43	A	44	15	0.70	0.70	1.00	ATTIC HEAT TRACING															
2ND FL. BASEBOARD HEATER BBH-1	1.00	1.20	1.20	15	45	B	46	15	0.32	0.35	0.90	EDH-5															
2ND FL. BASEBOARD HEATER BBH-1	1.00	1.20	1.20	15	47	C	48	2P	0.32	0.35	0.90																
FFH-1	1.00	1.50	1.50	20	49	A	50	15	1.89	2.10	0.90	EDH-6															
EDH-1	0.90	0.80	0.72	15	51	B	52	2P	1.89	2.10	0.90																
	0.90	1.00	0.90	15	53	C	54	15	2.25	2.25	1.00	BBH-4															
EDH-2	0.90	2.30	2.07	15	55	A	56	2P	2.25	2.25	1.00																
	0.90	2.30	2.07	2P	57	B	58	15	2.25	2.25	1.00	BBH-4															
EDH-3	0.90	1.20	1.08	15	59	C	60	2P	2.25	2.25	1.00																
	0.90	1.20	1.08	2P	61	A	62	20				SPARE															
EDH-4	0.90	0.40	0.36	15	63	B	64	15				SPARE															
	0.90	0.40	0.36	2P	65	C	66	20				SPARE															
DB-1	0.90	0.08	0.07	15	67	A	68					SPACE															
SPARE				15	69	B	70					SPACE															
SPACE					71	C	72					SPACE															
DEMAND LOAD A (kW)				23.9				CONNECTED LOAD A (kW)				27.5															
DEMAND LOAD B (kW)				20.1				CONNECTED LOAD B (kW)				22.7															
DEMAND LOAD C (kW)				19.7				CONNECTED LOAD C (kW)				21.8															
TOTAL DEMAND (kW)				63.8				TOTAL CONNECTED (kW)				72.0															
OPTIONS:																											
<input type="checkbox"/> ISOLATED GROUND BUS														<input type="checkbox"/> FEED THROUGH LUGS													
<input type="checkbox"/> DOUBLE NEUTRAL														<input type="checkbox"/> DOUBLE TUB													
<input checked="" type="checkbox"/> SPRINKLER PROOF														<input type="checkbox"/> OTHER:													
<input type="checkbox"/> MAIN BREAKER: XXXA-3P																											
<input type="checkbox"/> NEMA 3X14																											
<input checked="" type="checkbox"/> COPPER BUS																											
<input type="checkbox"/> ALUMINUM BUS																											
<input type="checkbox"/> MAIN LUGS ONLY																											



1 SINGLE LINE DIAGRAM - DEMOLITION
SCALE: N.T.S.



2 SINGLE LINE DIAGRAM - MODIFICATION
SCALE: N.T.S.

DO NOT SCALE DRAWINGS.
CONTRACTOR MUST VERIFY ALL DIMENSIONS AND ADVISE CONSULTANTS
OF ANY ERRORS OR OMISSIONS.
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IMPLEMENTED WITHOUT PRIOR WRITTEN APPROVAL.
ALL PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED BY THE
LATEST REVISION.
ALL DRAWINGS AND SPECIFICATIONS REMAIN THE PROPERTY OF
MAT 4SITE ENGINEERS LTD.

5	2023/08/04	ISSUED FOR PERMIT/TENDER
4	2023/07/12	ISSUED FOR 95% REVIEW
3	2023/05/31	ISSUED FOR 50% CD
2	2023/04/26	ISSUED FOR 100% DD
1	2023/04/10	ISSUED FOR 50% DD
No.	Date	Action

MAT 4SITE ENGINEERS LTD.
620 WILSON AVE., SUITE 320, TORONTO, ON M3K 1Z3
PHONE: 416-229-6574 FAX: 416-229-4105

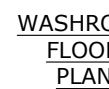


Orientation Stamp
Project Name and Address:
**SPADINA MUSEUM
GARAGE REHABILITATION AND
SITE ACCESSIBILITY**
285 SPADINA RD,
TORONTO, ON M5R2V5

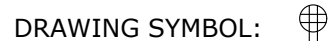
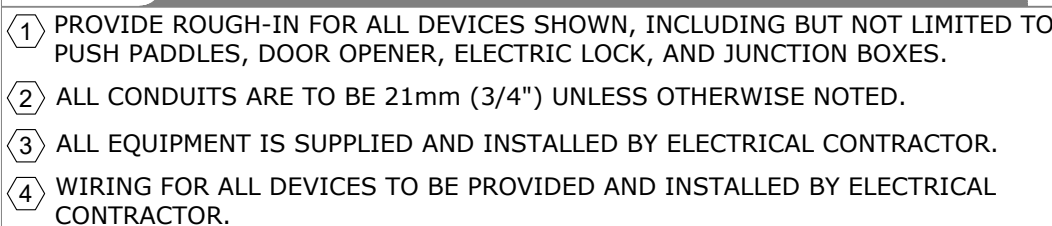
Drawing title
SINGLE LINE DIAGRAM

Scale: N.T.S.	Project No. 22626
Designer: N.J.	Date: 2023/01/25
Drawn by: R.A.	Checked by: R.M.
Drawing file: 22626-E	Client Approval

Revision No. 0	Drawing No. E-900
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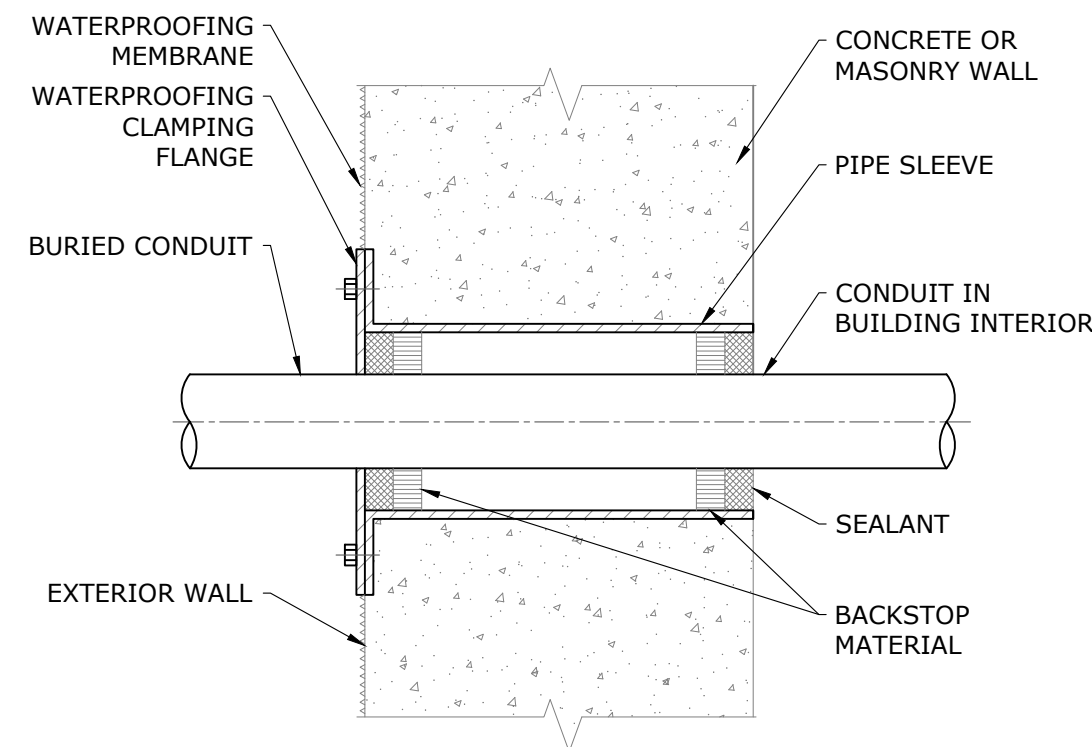


- 1 ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL COMBINATION EMERGENCY PUSH BUTTON AND VISUAL SIGNAL DEVICE INSIDE UNIVERSAL WASHROOM. VISUAL SIGNALING DEVICES TO ACTIVATE WHEN EMERGENCY POSITION IS RELEASED. VISUAL SIGNAL TO REMAIN BURN IN UNTIL PULL BUTTON OR PRESS PUSH BUTTON TO RETURN TO MUSHROOM STYLE AND LATCHING STYLE, AND TO TWIST-TO-PLEASE TYPE TO ALLOW FOR RELEASE OF AUDIO AND VISUAL SIGNALS AFTER OCCUPANT HAS BEEN ASSISTED. EMERGENCY PUSH BUTTON IS TO ILLUMINATE RED LIGHT. COMBINATION PUSH BUTTON AND VISUAL SIGNAL DEVICE TO BE MOUNTED ON STAINLESS STEEL FACEPLATE.
- 2 VISUAL SIGNALING DEVICE TO BE LED LIGHT. COMBINATION DEVICE TO BE 24VDC FOR UNIVERSAL WASHROOM. COMBINATION DEVICE TO BE 120VAC TO BE DISABLED UPON ACTIVATION OF EMERGENCY PUSH BUTTON. PUSH BUTTON IS NOT TO OPEN DOOR WHEN EMERGENCY PUSH BUTTON IS PRESSED.
- 3 SUBMIT SHOP DRAWINGS FOR ARCHITECT AND CONSULTANT PRIOR TO ORDERING.
- 4 ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL PIEZO CHIME OUTSIDE OF WASHROOM. CHIME TO SOUND PRELIMINARY WARNING AT APPROX 10 DBA OUTSIDE OF WASHROOM. CHIME TO BE 24VDC. SHOP DRAWINGS TO BE SUBMITTED PRIOR TO ORDERING.
- 5 ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL "ASSISTANCE REQUIRED SIGN". COMPLETE WITH WHEELCHAIR GRAPHIC SIGNAGE OUTSIDE OF WASHROOM. SIGN TO BE 24VDC. SHOP DRAWINGS TO BE SUBMITTED PRIOR TO ORDERING.
- 6 ELECTRICAL CONTRACTOR TO SUPPLY AND INSTALL ALL CONDUIT, WIRING, POWER SUPPLIES, AND CONNECTIONS REQUIRED FOR UNIVERSAL WASHROOM. ALL WIRING TO BE CONDUIT.
- 7 ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL A LAMICOID SIGN ABOVE THE COMBINATION EMERGENCY PUSH BUTTON. THE LAMICOID IS TO BE READ "IN THE EVENT OF AN EMERGENCY PUSH EMERGENCY BUTTON AND AUDIBLE AND VISUAL SIGNAL WILL ACTIVATE." LAMICOID LETTERS TO BE .25mm HIGH WITH 5mm STROKE. SHOP DRAWING TO BE SUBMITTED PRIOR TO ORDERING.
- 8 ELECTRICAL CONTRACTOR TO SUPPLY AND INSTALL 24VDC POWER SUPPLY IN A SEPARATE JUNCTION BOX. POWER SUPPLY TO HAVE A 120V INPUT. POWER SUPPLY TO HAVE SUFFICIENT CAPACITY TO POWER ALL EMERGENCY CALL SYSTEM COMPONENTS, INCLUDING INTERCOM, LAMICOID, VISUAL SIGNALS, AND ELECTRONIC LOCK DOWN RELEASE. POWER SUPPLY TO HAVE 50% SPARE CAPACITY FOR FUTURE USE.



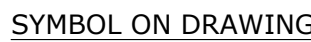
1. COVER PLATES BY ELECTRICAL DIVISION 16.

E-1000



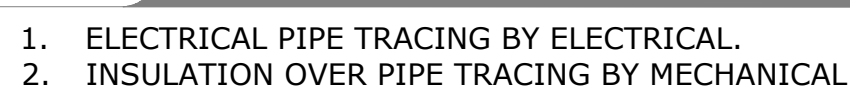
1. MATERIALS USED SHALL BE CONFIRMED WITH ARCHITECT.

4
E-1000



1. ALL ITEMS SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR UNLESS OTHERWISE NOTED.
2. PROVIDE CONNECTOR C/W NYLON BUSHINGS FOR OPEN ENDED CONDUIT TERMINATIONS.
3. FINAL LOCATIONS AND MOUNTING HEIGHTS OF ALL DEVICES SHALL BE COORDINATED ON SITE WITH GENERAL CONTRACTOR PRIOR TO ROUGH-IN.
4. ELECTRIC RING OPERATOR PUSH PADLESS SHALL BE LOCATED A MINIMUM OF 600mm AND MAXIMUM OF 1500mm AWAY FROM THE DOOR SWING TO THE CENTER OF THE DEVICE.

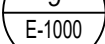
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5
E-1000



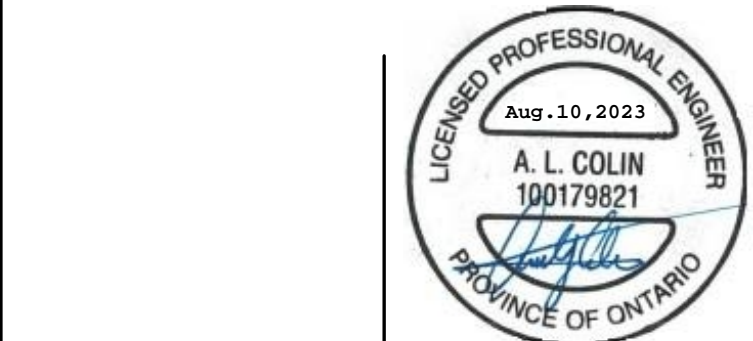
1. ALL ITEMS SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR UNLESS OTHERWISE NOTED.
2. PROVIDE CONNECTOR C/W NYLON BUSHINGS FOR OPEN ENDED CONDUIT TERMINATIONS.
3. FINAL LOCATIONS AND MOUNTING HEIGHTS OF ALL DEVICES SHALL BE COORDINATED ON SITE WITH GENERAL CONTRACTOR PRIOR TO ROUGH-IN.



1. ALL ITEMS SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR UNLESS OTHERWISE NOTED.
2. REQUIREMENTS SHOWN SHALL ALSO BE APPLICABLE FOR FLOOR MOUNT, FURNITURE MOUNT AND CEILING MOUNT OUTLET LOCATIONS.
3. REFER TO FLOOR PLANS FOR QUANTITIES AND LOCATIONS.

E-1000

No.	Date	Action
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Orientation	Stamp
Vertical	Vertical
Horizontal	Horizontal

Project Name and Address:

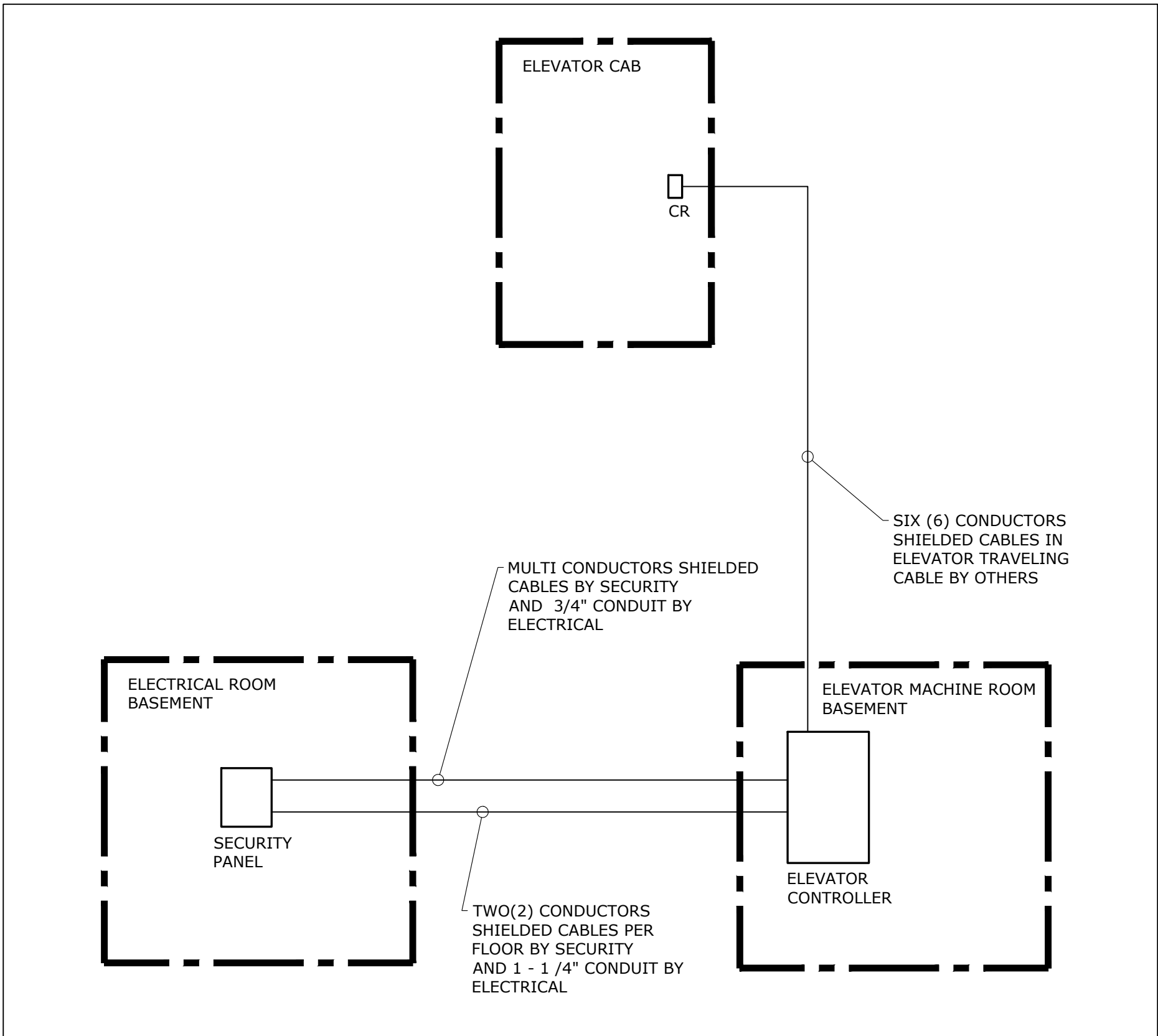
**SPADINA MUSEUM
GARAGE REHABILITATION AND
SITE ACCESSIBILITY**

285 SPADINA RD,
TORONTO, ON M5R2V5

Drawing title
DETAILS

Scale: N.T.S.	Project No. 22626
Designer: N.J.	Date: 2023/01/25
Drawn by: R.A.	Checked by: R.M.
Drawing file: 22626-F	Client Approval


Revision No.	Drawing No.
0	E-1000




1
ELEVATOR CARD READER SCHEMATIC
SCALE: N.T.S.

DO NOT SCALE DRAWINGS. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND ADVISE CONSULTANTS OF ANY ERRORS OR OMISSIONS. NO VARIATIONS OR MODIFICATIONS TO WORK SHOWN SHALL BE IMPLEMENTED WITHOUT PRIOR WRITTEN APPROVAL. ALL PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED BY THE LATEST REVISION. ALL DRAWINGS AND SPECIFICATIONS REMAIN THE PROPERTY OF MAT 4SITE ENGINEERS LTD.

5	2023/08/04	ISSUED FOR PERMIT/TENDER
4	2023/07/12	ISSUED FOR 95% REVIEW
3	2023/05/31	ISSUED FOR 50% CD
2	2023/04/26	ISSUED FOR 100% DD
1	2023/04/10	ISSUED FOR 50% DD
No.	Date	Action



MAT 4SITE ENGINEERS LTD.
620 WILSON AVE., SUITE 320, TORONTO, ON M3K 1Z3
PHONE: 416-229-6574 FAX: 416-229-4105



OrientationStamp

Project Name and Address:
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GARAGE REHABILITATION AND
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285 SPADINA RD,
TORONTO, ON M5R2V5

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Scale: N.T.S.	Project No. 22626
Designer: N.J.	Date: 2023/01/25
Drawn by: R.A.	Checked by: R.M.
Drawing file: 22626-E	Client Approval

Revision No. 0	Drawing No. E-1001
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