

- ### GENERAL CONSTRUCTION NOTES
1. COMPLETE ALL DEMOLITION WORK AND NEW WORK WITHIN THE DESCRIBED SCOPE OF WORK AREAS OF THE BUILDING AS INDICATED ON THE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS.
 2. THE GENERAL CONTRACTOR IS TO KEEP THE EXISTING DRIVEWAYS, DRIVE AISLES, PARKING LOT, SIDEWALKS AND WALKWAYS AT THE PERIMETER OF THE SITE, FREE FROM DEBRIS AND OBSTRUCTIONS AT ALL TIMES TO ENSURE THAT PUBLIC ACCESS IS CONSISTENTLY MAINTAINED.
 3. PROVIDE TEMPORARY DUST SCREENS WITH SEALED EDGES AT ALL AIR RETURNS AND AT ALL DOORS AND OPENINGS IN THE CONSTRUCTION AREA WHERE REQUIRED TO PREVENT THE SPREAD OF CONSTRUCTION DUST AND ODORS. REMOVE AFTER COMPLETION OF CONSTRUCTION.
 4. REFER TO PROPOSED FLOOR PLAN & PROPOSED REFLECTED CEILING PLAN ON DRAWING 1/2/A1.02 FOR LOCATION OF NEW WORK, NEW DOOR ASSEMBLY AND NEW CEILING ASSEMBLY.
 5. CAULK WITH ACOUSTICAL SEALANT AT PERIMETER OF PARTITION ON BOTH SIDES AND AT PENETRATIONS.
-13mm JOINT AT U/S OF CEILING
-5mm JOINT AT FLOOR AND VERTICAL JOINTS ABUTTING DISSIMILAR CONSTRUCTION.

- ### CONSTRUCTION CEILING ASSEMBLY
- SUSPENDED T-BAR AND ACOUSTICAL CEILING TILE (ACT)**
- SUSPENDED T-BAR AND ACOUSTICAL CEILING TILE.
 - PROVIDE COLD-FORMED STEEL CHANNELS WHERE REQUIRED FOR INTERMEDIATE SUPPORT OF CEILING.
 - SECURE TO EXISTING CONCRETE FLOOR ASSEMBLY ABOVE.
 - REFER TO PROPOSED REFLECTED CEILING PLAN DRAWING 2/A1.02 AND ALL BUILDING SECTIONS FOR LOCATIONS AND DETAILS AND HEIGHTS.

NOTE: THIS DRAWING IS NOT TO BE SCALED. THE CONTRACTOR IS RESPONSIBLE FOR THE VERIFICATION OF ALL SITE CONDITIONS AND SITE MEASUREMENTS THAT ARE NOT CONSISTENT WITH THE DRAWINGS.

1
A0.02
SITE MOBILIZATION PLAN
1:500

GENERAL CONSTRUCTION NOTES	SITE MOBILIZATION, ACCESS & CONSTRUCTION LEGEND AND NOTES	DRAWING TAGS LEGEND NOTES
<p>THE EXISTING BUILDING WILL BE OPEN TO STAFF DURING CONSTRUCTION. CONTRACTOR IS RESPONSIBLE TO COORDINATE THE WORK AND CONSTRUCTION ACCESS PATH TO ACCOMMODATE EXISTING BUILDING PROGRAMMING AND OCCUPANCY WITHOUT DISTURBING BUILDING FUNCTIONS AND OCCUPANCY. CONTRACTOR IS TO COORDINATE LOCATION OF MOBILIZATION ZONE AND ACCESS TO THE FACILITY WITH HAMILTON-WENTWORTH DISTRICT SCHOOL BOARD.</p> <ol style="list-style-type: none">1. THE GENERAL CONTRACTOR IS TO KEEP ALL MUNICIPAL AREAS, INCLUDING THE EXISTING SIDEWALKS AND DRIVEWAYS FREE FROM DEBRIS AND OBSTRUCTIONS AT ALL TIMES TO ENSURE THAT PUBLIC ACCESS IS CONSISTENTLY MAINTAINED.2. COMPLETE ALL DEMOLITION WORK AND NEW WORK WITHIN THE DESCRIBED SCOPE OF WORK AREAS OF THE BUILDING, AND OUTLINED AREAS ENCLOSED BY TEMPORARY DUST SCREENS AND AS INDICATED ON THE DRAWINGS AND IN THE SPECIFICATIONS.3. NO ON-SITE PARKING OF CONTRACTOR VEHICLES IS ALLOWED WITHIN THE BUILDING PEDESTRIAN ZONES. EXISTING PARKING LOT CAN BE UTILIZED BY THE GENERAL CONTRACTOR FOR PARKING OF REGULAR VEHICLES ONLY.4. THE GENERAL CONTRACTOR WILL NOT HAVE USE OF THE EXISTING PUBLIC WASHROOMS IN THE HWDSB SCHOOL DURING CONSTRUCTION. THE GENERAL CONTRACTOR IS TO INSTALL OUTDOOR WASHROOM FACILITIES FOR THE ENTIRE DURATION OF CONSTRUCTION. ANY DAMAGE TO THE EXISTING PROPERTY DUE TO USE BY THE GENERAL CONTRACTOR AND SUBCONTRACTORS IS TO BE REPAIRED AND MADE GOOD BEFORE CONSTRUCTION IS COMPLETED.5. PROVIDE TEMPORARY DUST SCREENS WITH SEALED EDGES AT ALL AIR RETURNS IN THE CONSTRUCTION AREA AND AT ALL DOORS AND OPENINGS TO CONSTRUCTION AREAS TO PREVENT THE SPREAD OF CONSTRUCTION DUST AND ODORS.6. MAKE ALL NECESSARY REPAIRS TO THE BUILDING AND THE SITE WHERE AREAS ARE DAMAGED. REINSTATE ALL DAMAGED ITEMS DURING CONSTRUCTION AND RESTORE TO AS NEW CONDITION.	<p># CONSTRUCTION NOTE (REFER TO SITE MOBILIZATION PLAN 1/A0.02).</p> <p>ACCESS AND EXIT POINTS OF THE BUILDING</p> <p>PATH TO AREA OF WORK TO THE SECOND FLOOR THE GENERAL CONTRACTOR IS TO CLEAN AND CLEAR THE PATH OF WORK (EXTERIOR AND INTERIOR) OF ANY OBSTRUCTIONS EVERYDAY AFTER WORK IS FINISHED. AFTER COMPLETION OF CONSTRUCTION, PATCH, REPAIR AND MAKE GOOD ALL EXISTING SURFACES (EXTERIOR WALKS, DRIVEWAYS, CURBS AND LANDSCAPING AND INTERIOR CEILING, WALL AND FLOOR FINISHES), DOORS, LIGHT FIXTURES AND OTHER ITEMS DAMAGED DURING CONSTRUCTION.</p> <p>TEMPORARY CONSTRUCTION DISPOSAL BIN: TEMPORARY CONSTRUCTION DISPOSAL BIN IS TO BE LOCATED WITHIN THE MOBILIZATION AREA AT ALL TIMES. REPAIR AND MAKE GOOD ANY AND ALL EXISTING SURFACES DAMAGED DUE TO THE DELIVERY, PLACEMENT AND REMOVAL OF THE DISPOSAL BIN.</p> <p>SITE ENTRY DRIVE: DURING CONSTRUCTION, THE EXISTING PUBLIC ENTRY DRIVE IS FOR ACCESS BY THE PUBLIC AND THE GENERAL CONTRACTOR. THE GENERAL CONTRACTOR IS TO KEEP THIS ACCESS DRIVE FREE FROM DEBRIS AT ALL TIMES. ANY DAMAGE TO THIS DRIVE OR TO THE SITE, DUE TO ITS OCCUPATION AND USE BY THE GENERAL CONTRACTOR AND SUBCONTRACTORS, IS TO BE REPAIRED AND MADE GOOD BEFORE CONSTRUCTION IS COMPLETED.</p> <p>CONSTRUCTION FENCING: TEMPORARY CONSTRUCTION FENCING AND GATES ARE TO BE ERRECTED BY THE GENERAL CONTRACTOR TO ENCLOSE THE CONSTRUCTION MOBILIZATION AREA AND TO KEEP IT SEPARATE FROM THE SITE AND TO PREVENT PUBLIC ACCESS TO THIS AREA. PROVIDE STURDY, HEAVY-DUTY GALVANIZED CHAIN LINK PANELS AND GATES WITH A MINIMUM HEIGHT OF 6'-0" AND SECURED WITH STURDY STEEL GROUND STANDS AND U-CLAMPS. PROVIDE CHAIN LINK PANELS BY FAST FENCE INC. OR EQUIVALENT.</p> <p>3 TEMPORARY CONSTRUCTION MOBILIZATION AREA - EXACT LOCATION TO BE CONFIRMED: THIS AREA IS A CONSTRUCTION ZONE FOR USE BY THE GENERAL CONTRACTOR ONLY AS A CONSTRUCTION MOBILIZATION AREA AND STORAGE FOR LONG-TERM DISPOSAL BINS. THIS AREA IS TO BE ENCLOSED WITH PERIMETER CONSTRUCTION FENCING (SEE NOTE 2). PROVIDE CONSTRUCTION GATES AT THE CONSTRUCTION ENTRY DRIVE AS REQUIRED TO ACCESS THE MOBILIZATION AREA. PARKING OF CONSTRUCTION VEHICLES IS NOT ALLOWED IN THIS AREA. CONTRACTOR VEHICLES AND DELIVERY TRUCKS CANNOT IMPEDE THE DRIVEWAY PATH AT ANY GIVEN TIME. CONSTRUCTION GARBAGE/DISPOSAL BINS ARE PERMITTED TO BE LOCATED IN THIS AREA TEMPORARILY DURING CONSTRUCTION. THE INTERNAL BUILDING PATHWAY TO THE GARBAGE BINS ARE TO BE CLEANED ON A DAILY BASIS TO ENSURE THAT PUBLIC ACCESS REMAINS FREE FROM CONSTRUCTION DEBRIS AT ALL TIMES. CONFIRM FINAL LOCATION OF MOBILIZATION ZONE WITH THE OWNER.</p> <p>4 CONSTRUCTION AND PUBLIC ACCESS POINT TO THE BUILDING: THIS ACCESS IS BOTH A PUBLIC ENTRANCE AND A CONSTRUCTION ENTRY POINT. THIS CONSTRUCTION ENTRY POINT TO THE BUILDING WILL PROVIDE THE GENERAL CONTRACTOR ACCESS TO THE INTERIOR RENOVATION AREAS. THIS IS THE ONLY CONSTRUCTION ACCESS POINT TO THE BUILDING THAT IS TO BE USED BY THE GENERAL CONTRACTOR DURING CONSTRUCTION. THIS ENTRY POINT AND THE EXTERNAL AND INTERNAL BUILDING PATHS TO THE RENOVATION AREAS ARE TO BE CLEANED ON A DAILY BASIS TO ENSURE THAT PUBLIC ACCESS POINTS AND PATHWAYS REMAIN FREE FROM CONSTRUCTION DEBRIS AT ALL TIMES.</p> <p>5 CONSTRUCTION PARKING AREA: THE EXISTING BUILDING PARKING SPACES ON THE SITE CAN BE UTILIZED BY CONSTRUCTION PERSONNEL FOR PARKING OF REGULAR STAFF VEHICLES ONLY. THE GENERAL CONTRACTOR MUST KEEP THIS AREA CLEAR AND FREE FROM DEBRIS AT ALL TIMES. THE CONTRACTOR AND PERSONNEL ARE FREE TO PARK IN THE SCHOOL PARKING LOT FOR THE DURATION OF THE SUMMER MONTHS.</p> <p>6 PUBLIC PARKING AREA: THE EXISTING BUILDING PARKING SPACES ARE PUBLIC PARKING SPACES. ANY OF THE PUBLIC PARKING SPACES CAN BE UTILIZED BY CONSTRUCTION PERSONNEL, UNLESS NOTED OTHERWISE BY THE SCHOOL BOARD AT THE TIME OF AWARD, WHEREBY SPECIFIC PARKING SPACES MAY BE DESIGNATED FOR PARKING OF REGULAR VEHICLES BY CONSTRUCTION PERSONNEL. THE GENERAL CONTRACTOR MUST KEEP THIS AREA CLEAR AND FREE FROM DEBRIS AT ALL TIMES. REFER TO NOTE 5 ABOVE.</p>	<p>DRAWING TAGS LEGEND NOTES</p> <p>ROOM NAME 1: 8101 AREA m2: 8101</p> <p>ROOM TITLE: REFERS TO ROOM NAME REFERS TO ROOM NUMBER REFERS TO AREA IN m2</p> <p>DETAIL TAG: DETAIL NUMBER / DRAWING NUMBER.</p> <p>BUILDING / WALL SECTION TAG: SECTION DETAIL NUMBER DRAWING NUMBER</p> <p>INTERIOR ELEVATION TAG: INTERIOR ELEVATION DETAIL NUMBER / DRAWING NUMBER</p> <p>CEILING CONSTRUCTION TAG: REFER TO CONSTRUCTION LEGEND ON DRAWING A0.02.</p> <p>REFERS TO DOOR NUMBER. REFER TO DRAWING A5.01 FOR DOOR HARDWARE SCHEDULE AND DOOR AND FRAME ELEVATION TYPES.</p> <p>REFERS TO ALUMINUM STOREFRONT FRAMED SCREEN. REFER TO DRAWING A5.01 FOR DOOR HARDWARE SCHEDULE AND SCREEN ELEVATION TYPES.</p>

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project
WATERDOWN DISTRICT HIGH SCHOOL
MAIN ENTRANCE AND FOYER RENOVATIONS
HAMILTON-WENTWORTH DISTRICT SCHOOL BOARD
215 Parkside Dr, Waterdown, ON L8B 1B9
drawing
SITE MOBILIZATION PLAN AND NOTES
drawing scale

AS NOTED
ward99 project number
24020 - HWDSB Waterdown DHS

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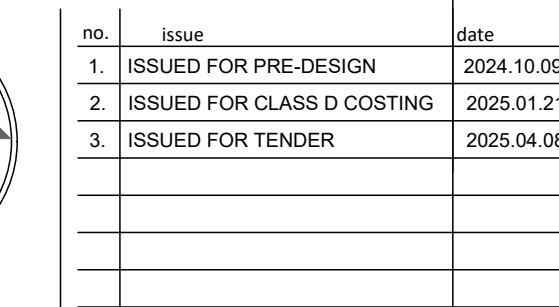
no.	revision	date
1	ISSUED FOR PRE-DESIGN	2024.10.09
2	ISSUED FOR CLASS D COSTING	2025.01.21
3	ISSUED FOR TENDER	2025.04.08

no.	issue	date
1	ISSUED FOR PRE-DESIGN	2024.10.09
2	ISSUED FOR CLASS D COSTING	2025.01.21
3	ISSUED FOR TENDER	2025.04.08

A0.02



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A0.03

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215 Parkside Dr, Waterdown, ON L8B 1B9

AS NOTED

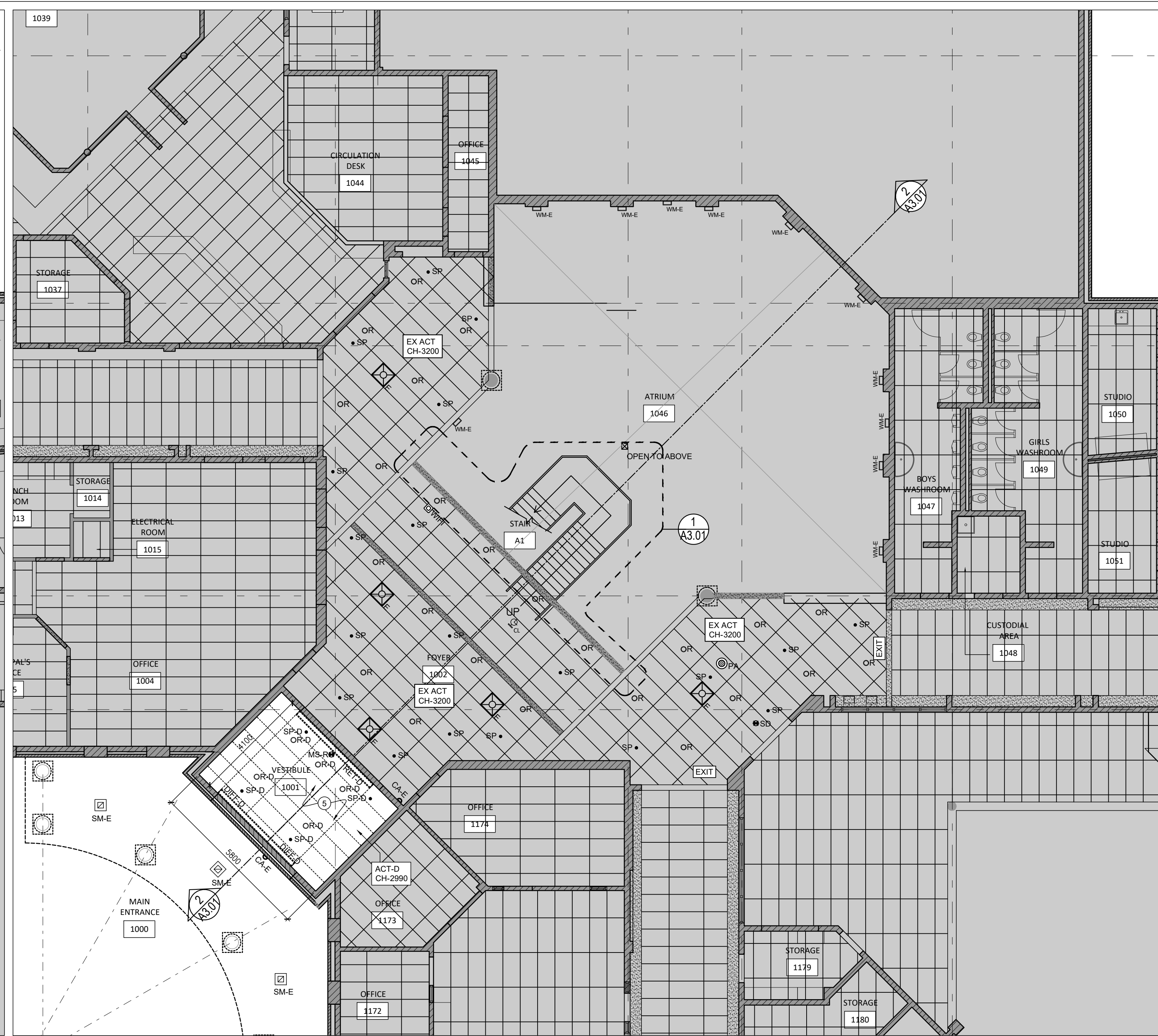
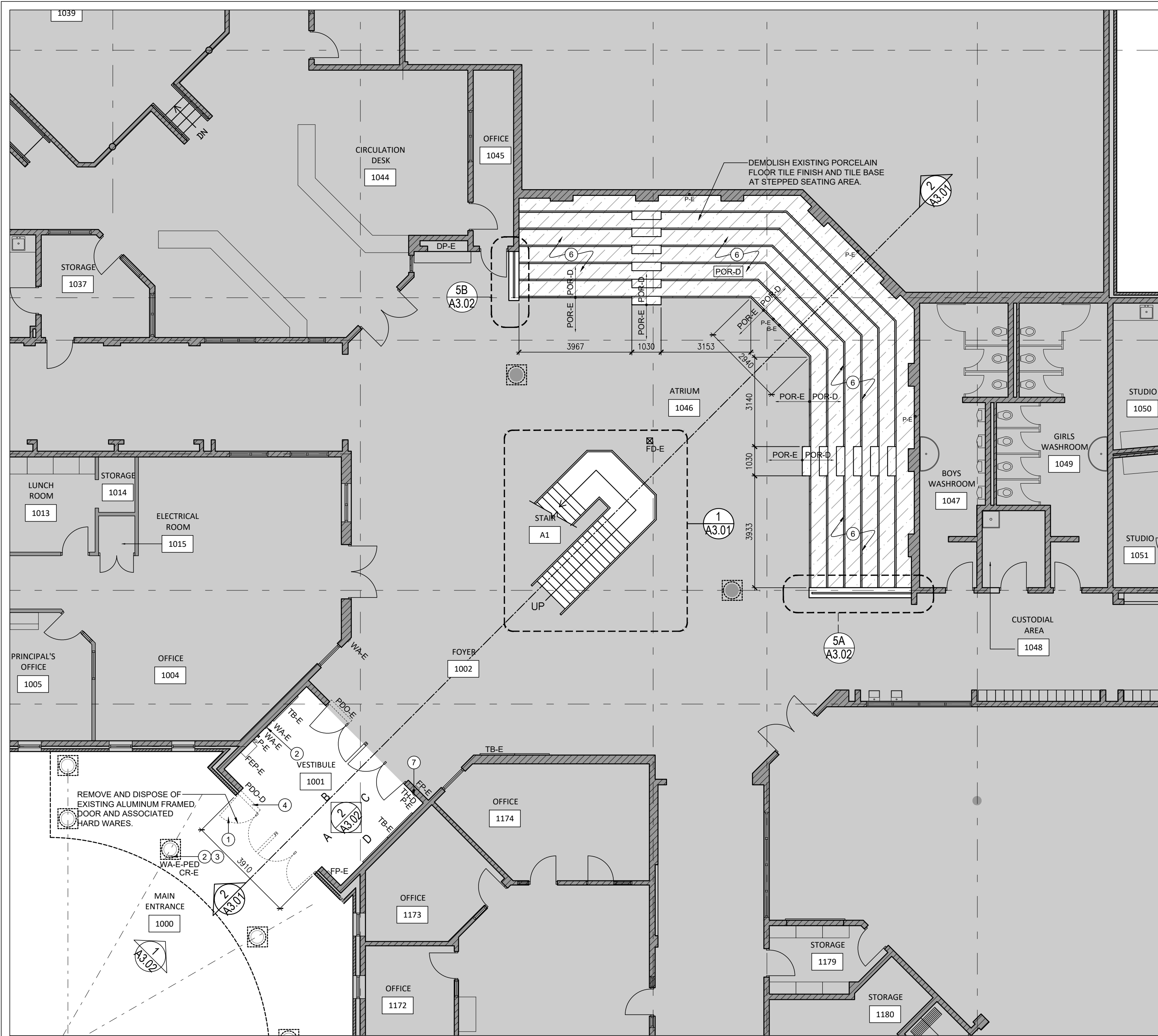
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A0.03



1
A1.01
GROUND FLOOR DEMOLITION PLAN
1:100

2
A1.01
GROUND FLOOR DEMOLITION REFLECTED CEILING PLAN
1:100

PLAN DEMOLITION NOTES

→ DEMOLITION FLOOR PLAN NOTE. REFER TO EXISTING GROUND FLOOR PLAN DEMOLITION DRAWINGS ON 1/A1.01 AND 2/A1.01.

- DEMOLISH EXISTING ALUMINUM FRAMED GLAZED SCREEN AND DOORS ASSEMBLY AND ASSOCIATED HARDWARE. MAKE GOOD EXISTING DOOR JAMBS, HEADERS AND FLOOR ASSEMBLIES IN PREPARATION OF INSTALLATION OF NEW DOOR AND SCREEN ASSEMBLY.
- WA-E-PED** = RETAIN EXISTING ACTUATOR ON COLUMN, DISCONNECT FOR EXISTING DOOR TO BE DEMOLISHED. RETAIN IN PLACE FOR RECONNECTION TO NEW DOOR. **WA-E** = EXISTING WALL MOUNTED ACTUATORS IN VESTIBULE. DISCONNECT ACTUATOR CONNECTED TO EXISTING EXTERIOR DOOR TO BE DEMOLISHED. RETAIN IN PLACE FOR RECONNECTION TO NEW DOOR. REFER TO ELECTRICAL DRAWINGS.
- CR-E** = RETAIN EXISTING EXTERIOR CARD READER ON EXISTING COLUMN. DISCONNECT FROM EXISTING DOOR TO BE DEMOLISHED. RETAIN IN PLACE FOR RECONNECTION TO NEW DOOR. REFER TO ELECTRICAL DRAWINGS.
- PDO-D** = DEMOLISH EXISTING OVERHEAD POWER DOOR OPERATOR. DISCONNECT ELECTRICAL CONNECTION. REFER TO ELECTRICAL DRAWINGS.
- DEMOLISH EXISTING ACOUSTIC CEILING ASSEMBLY IN ITS ENTIRETY. (HEIGHT IS 2990mm FROM FINISHED FLOOR) DEMOLISH EXISTING ASSOCIATED LIGHT FIXTURES. DEMOLISH EXISTING SPRINKLER HEAD. REFER TO ELECTRICAL AND MECHANICAL DRAWINGS.
- POR-D** = DEMOLISH EXISTING PORCELAIN FLOOR TILE FINISH AND TILE BASE AT COMPLETE STEPPED SEATING ASSEMBLY, AND ASSOCIATED STAIRS IN THEIR ENTIRETY. GRIND EXISTING CONCRETE SLAB AND STAIR ASSEMBLY TO MAKE FLUSH AND SMOOTH IN PREPARATION FOR NEW INSTALLATION OF NEW PORCELAIN FLOOR FINISH.
- TH-D** = DEMOLISH EXISTING THERMOSTAT. REFER TO MECHANICAL DRAWINGS.

DEMOLITION FLOOR PLAN LEGEND

- DEMOLITION DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL OTHER DEMOLITION DRAWINGS, ALL OTHER ARCHITECTURAL DRAWINGS AND ALL OTHER MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION, DETAILS, NOTES AND DIMENSIONS.
- NOTE THE FOLLOWING ABBREVIATIONS. REFER TO ELECTRICAL DRAWINGS FOR THE FOLLOWING ITEMS:
WA-E-PED = EXISTING ACTUATOR ON COLUMN TO REMAIN. REFER TO DEMOLITION NOTE NO.2
WA-E = EXISTING WALL MOUNTED ACTUATOR TO REMAIN. REFER TO DEMOLITION NOTE NO.2
CR-E = EXISTING EXTERIOR CARD READER TO REMAIN. REFER TO DEMOLITION NOTE NO.3
PDO-D = DEMOLISH EXISTING OVERHEAD POWER DOOR OPERATOR. REFER TO DEMOLITION NOTE NO.4
P-E = EXISTING POWER RECEPTACLE TO REMAIN.
D-E = EXISTING DATA RECEPTACLE TO REMAIN.
FEP-E = EXISTING ELECTRICAL CABINET TO REMAIN.
FP-E = EXISTING FIRE PULL TO REMAIN.
- REFER TO MECHANICAL DRAWINGS FOR THE FOLLOWING ITEM:
TH-D = DEMOLISH EXISTING THERMOSTAT.
- TB-E** = EXISTING TACKBOARD TO REMAIN.
- FD-E** = EXISTING FLOOR DRAIN.
- POR-D** = DEMOLISH EXISTING PORCELAIN FLOOR TILE FINISH AND TILE BASE AT COMPLETE STEPPED SEATING ASSEMBLY. REFER TO DEMOLITION NOTE NO.6

DEMOLITION REFLECTED CEILING PLAN LEGEND

REFER TO DRAWING A0.02 FOR ADDITIONAL LEGEND AND NOTES.

EX ACT CH-0000

ACT-D CH-0000

EX GBD CH-0000

EXISTING INTERIOR MASONRY PARTITION HEADER ABOVE EXISTING PARTITION OPENING TO REMAIN.

R-D = REMOVE AND DISPOSE OF EXISTING RECESSED LIGHT FIXTURE. REFER TO ELECTRICAL DRAWINGS.

SM-E = EXISTING SURFACE MOUNTED LIGHT FIXTURE TO REMAIN. REFER TO ELECTRICAL DRAWINGS.

EX ACT = EXISTING SUSPENDED ACOUSTIC CEILING TILE AND T-BAR SUSPENSION SYSTEM (SIZE: +/- 610mm X 1220mm.). TEMPORARILY UNINSTALL, PROTECT AND STORE EXISTING CEILING ASSEMBLY AS REQUIRED TO COMPLETE THE WORK. TEMPORARILY REMOVE, PROTECT AND STORE EXISTING ELECTRICAL AND MECHANICAL FIXTURES AND DEVICES FROM EXISTING CEILING ASSEMBLY AS REQUIRED TO COMPLETE THE WORK. REINSTALL THE EXISTING CEILING ASSEMBLY, FIXTURES AND DEVICES, ONCE WORK IS COMPLETE. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS.
CH = HEIGHT FROM FINISHED FLOOR TO UNDERSIDE OF EXISTING FINISHED CEILING.

ACT-D = REMOVE AND DISPOSE OF EXISTING SUSPENDED ACOUSTIC CEILING TILE AND T-BAR SUSPENSION SYSTEM IN ITS ENTIRETY (SIZE: +/- 610mm X 1220mm). REMOVE EXISTING ELECTRICAL AND MECHANICAL FIXTURES AND DEVICES FROM EXISTING CEILING ASSEMBLY. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS.
CH = HEIGHT FROM FINISHED FLOOR TO UNDERSIDE OF EXISTING FINISHED CEILING.

EX GBD = EXISTING GYPSUM BOARD CEILING AND/OR BULKHEAD AND ASSOCIATED FRAMING ASSEMBLY TO REMAIN. REMOVE EXISTING CEILING ASSEMBLY AND ELECTRICAL AND MECHANICAL FIXTURES AS REQUIRED TO COMPLETE DEMOLITION AND NEW WORK. PROVIDE NEW MATCHING CEILING ASSEMBLY AS REQUIRED TO COMPLETE DEMOLITION AND NEW WORK.

R

R-E

DIFF-D

RET-D

E

SP-D

SP

MS-R

CA-E

EXIT

R/R-E = EXISTING RECESSED LIGHT FIXTURE TO REMAIN. REFER TO ELECTRICAL DRAWINGS

DIFF-D = DEMOLISH EXISTING LINEAR SUPPLY AIR DIFFUSER. REFER TO MECHANICAL DRAWINGS.
RET-D = DEMOLISH EXISTING RETURN AIR DIFFUSER. REFER TO MECHANICAL DRAWINGS.
E = EXISTING MECHANICAL SUPPLY AIR DUCT TO REMAIN. REFER TO MECHANICAL DRAWINGS.

SP-D = DEMOLISH EXISTING SPRINKLER HEAD. REFER TO MECHANICAL DRAWINGS.

SP = EXISTING SPRINKLER HEAD TO REMAIN. REFER TO MECHANICAL DRAWINGS.

MS-R = UNINSTALL EXISTING MOTION SENSOR DEVICE FOR REINSTALLATION ON NEW CEILING ASSEMBLY. REFER TO ELECTRICAL DRAWINGS.

CA-E = EXISTING CAMERA TO REMAIN.

EXIT = EXISTING EMERGENCY EXIT LIGHT TO REMAIN.

NOTE: THIS DRAWING IS NOT TO BE SCALED. THE CONTRACTOR IS RESPONSIBLE FOR THE VERIFICATION OF ALL SITE DIMENSIONS AND FOR NOTIFYING THE ARCHITECT OF ANY SITE CONDITIONS AND SITE MEASUREMENTS THAT ARE NOT CONSISTENT WITH THE DRAWINGS.

no.	revision	date

no.	issue	date
1	ISSUED FOR PRE-DESIGN	2024.10.09
2	ISSUED FOR CLASS D COSTING	2025.01.21
3	ISSUED FOR TENDER	2025.04.08

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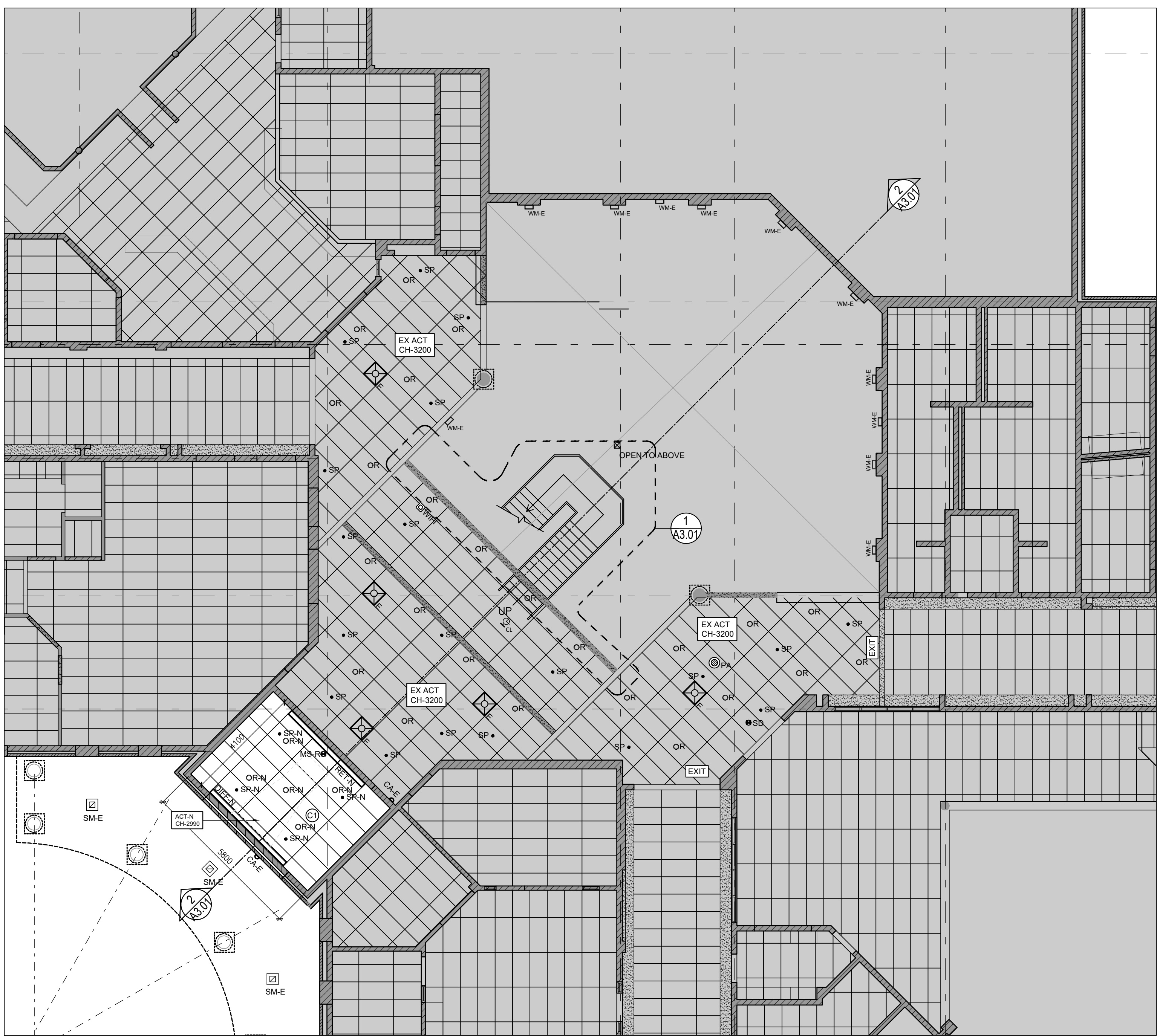
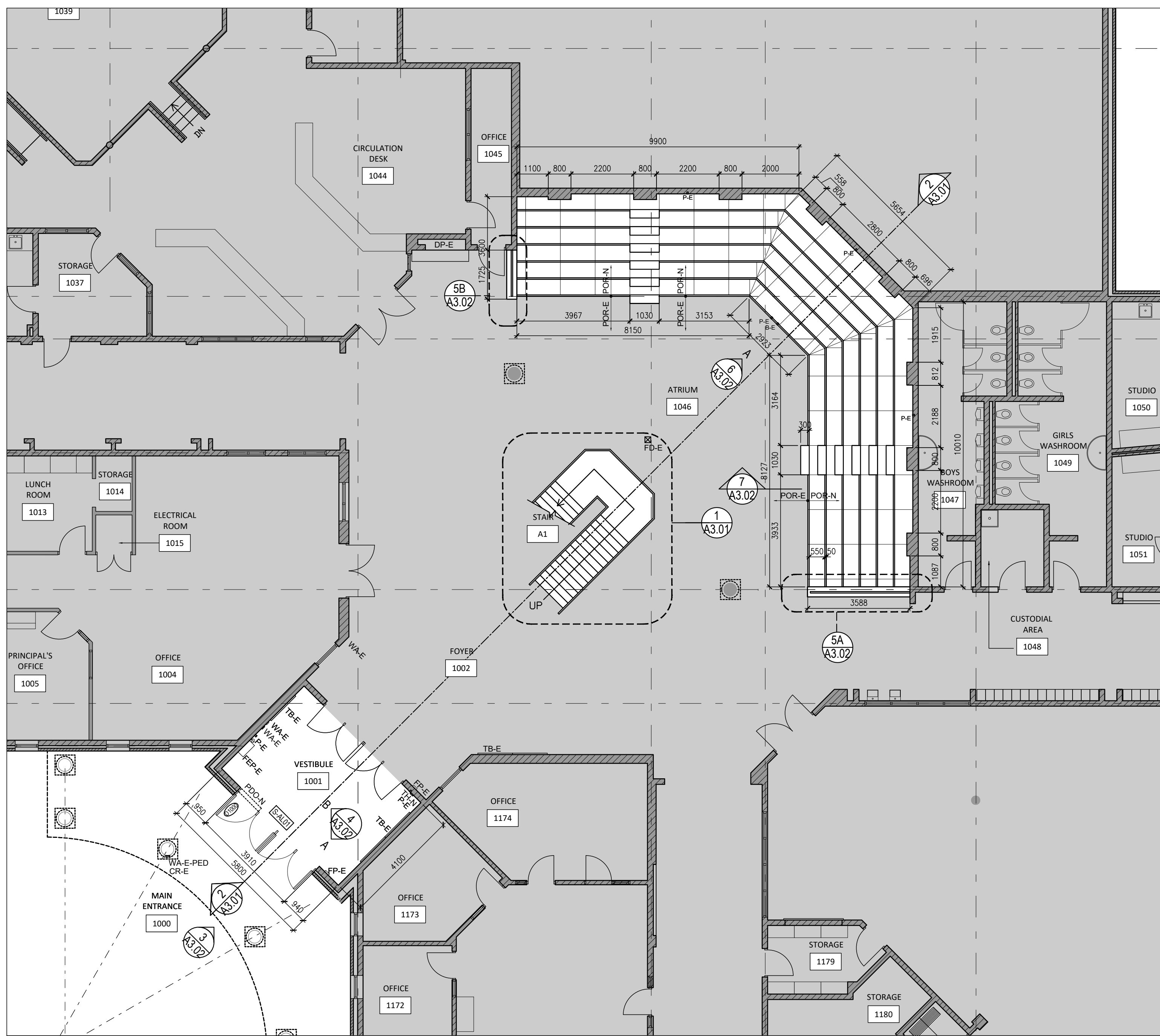
project
WATERDOWN DISTRICT HIGH SCHOOL
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drawing
DEMOLITION PLANS, NOTES AND LEGENDS
drawing scale

AS NOTED
ward99 project number
24020 - HWDSB Waterdown DHS

ward99 architects

drawing no.

A1.01



1
A1.02
PROPOSED GROUND FLOOR PLAN
1:100

2
A1.02
GROUND FLOOR PROPOSED RCP
1:100

GENERAL FLOOR PLAN NOTES

- PROPOSED DRAWINGS ON A1.02 SHALL BE READ IN CONJUNCTION WITH ALL DEMOLITION DRAWINGS AND ALL OTHER ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION, DETAILS, NOTES AND DIMENSIONS.
- REFER TO DRAWING A0.02 FOR DRAWING TAGS LEGEND AND NOTES.
- REFER TO DRAWING A0.02 FOR CONSTRUCTION CEILING ASSEMBLY TYPE LEGEND AND NOTES.
- REFER TO DRAWING A5.01 FOR DOOR TYPE, FRAME TYPE, DOOR DETAILS AND DOOR SCHEDULE.
- REFER TO DRAWING A5.01 ROOM FINISH SCHEDULE, LEGENDS AND NOTES. REFER TO DRAWING 1/A1.02 FOR PROPOSED FLOOR FINISHES.
- REFER TO ELECTRICAL DRAWINGS FOR:
WA-E-PED = RETAIN EXISTING ACTUATOR ON COLUMN, DISCONNECT FOR EXISTING DOOR TO BE DEMOLISHED. RETAIN IN PLACE FOR RECONNECTION TO NEW DOOR. REFER TO ELECTRICAL DRAWINGS FOR CONNECTION.
WA-E = EXISTING WALL MOUNTED ACTUATORS IN VESTIBULE. DISCONNECT ACTUATOR CONNECTED TO EXISTING EXTERIOR DOOR TO BE DEMOLISHED. RETAIN IN PLACE FOR RECONNECTION TO NEW DOOR. REFER TO ELECTRICAL DRAWINGS FOR CONNECTION.
PDO-N = NEW OVERHEAD POWER DOOR AUTO OPERATOR. REFER TO DOOR AND HARDWARE SCHEDULE
P-E = EXISTING POWER RECEPTACLE TO REMAIN.
- POR-E** = EXISTING PORCELAIN FLOOR TILE FINISH TO REMAIN.
- POR-N** = NEW PORCELAIN FLOOR TILE FINISH AND TILE BASE AT COMPLETE STEPPED SEATING ASSEMBLY AND ASSOCIATED STAIR. REFER TO SECTION AND INTERIOR ELEVATIONS ON DRAWINGS A3.01 AND A3.02 FOR AREA OF INSTALLATION.
- TH-N** = NEW THERMOSTAT. REFER TO MECHANICAL DRAWINGS.

GENERAL REFLECTED CEILING PLAN (RCP) NOTES

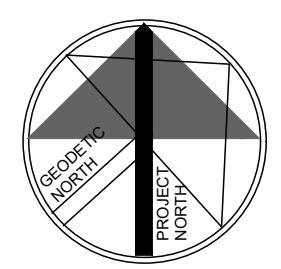
- REFER TO DRAWING A0.02 FOR CONSTRUCTION ASSEMBLIES.
- REFER TO ALL OTHER ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR COORDINATION AND ADDITIONAL NOTES AND INFORMATION.
- PROVIDE PAINT FINISH TO ALL EXPOSED EXISTING AND MECHANICAL AND ELECTRICAL PIPES AND CONDUITS AND ASSOCIATED MECHANICAL AND ELECTRICAL COMPONENTS (NEW AND EXISTING).
- ALL CEILING MOUNTED COMPONENTS AND EQUIPMENT ARE TO BE MOUNTED IN THE CENTER OF ACOUSTIC CEILING TILES.

GENERAL REFLECTED CEILING PLAN (RCP) LEGEND

- R-N** **R-N** = NEW RECESSED POT LIGHT FIXTURE. REFER TO ELECTRICAL DRAWINGS.
- R** **R** = EXISTING RECESSED LIGHT FIXTURE. REFER TO ELECTRICAL DRAWINGS.
- EXISTING SUSPENDED ACOUSTIC CEILING TILE AND ASSOCIATED FRAMING ASSEMBLY TO REMAIN.**
SIZE: 610mm X 1220mm +/-
INSTALL NEW CEILING TILE FINISH, WHERE EXISTING ELECTRICAL AND MECHANICAL FIXTURES AND FITMENTS ARE INDICATED AS TO BE REMOVED. REMOVE EXISTING SUSPENDED CEILING ASSEMBLY AS REQUIRED TO COMPLETE DEMOLITION AND NEW WORK. REINSTALL CEILING ASSEMBLY ONCE WORK IS COMPLETE.
- NEW SUSPENDED ACOUSTIC CEILING TILE AND ASSOCIATED FRAMING ASSEMBLY.**
SIZE: 610mm X 1220mm +/- AND 610mm X 610mm.
REFER TO CEILING ASSEMBLY TYPE 'C1' ON DRAWING A0.02.
- ACT-E** **ACT-E** = EXISTING SUSPENDED ACOUSTIC CEILING TILE ASSEMBLY TO REMAIN.
ACT-N **ACT-N** = NEW SUSPENDED ACOUSTIC CEILING TILE AND T-BAR ASSEMBLY.
CH = HEIGHT FROM FINISHED FLOOR TO UNDERSIDE OF EXISTING CEILING.
- EXISTING INTERIOR CONCRETE MASONRY LINTEL ABOVE EXISTING WALL OPENING.**
- EXISTING INTERIOR STEEL STUD, GYPSUM BOARD FINISHED WALL ABOVE EXISTING WALL OPENING.**
- C1** **C1** = CEILING TYPE. REFER TO DRAWING A0.02 AND SPECIFICATIONS FOR CEILING ASSEMBLY AND CEILING TYPES.
- MS-R** **MS-R** = REINSTALLED RELOCATED MOTION SENSOR. REFER TO ELECTRICAL DRAWINGS.
- SM-E** **SM-E** = EXISTING SURFACE MOUNTED LIGHT FIXTURE TO REMAIN. REFER TO ELECTRICAL DRAWINGS.
- CA-E** **CA-E** = EXISTING CAMERA TO REMAIN.
- EXIT** **EXIT** = EXISTING EMERGENCY EXIT LIGHT TO REMAIN.
- SP** **SP** = EXISTING SPRINKLER. REFER TO MECHANICAL DRAWINGS.
- SP-N** **SP-N** = NEW SPRINKLER ON NEW CEILING ASSEMBLY. REFER TO MECHANICAL DRAWINGS.
- N** **N** = NEW SUPPLY AIR DIFFUSER.
E **E** = EXISTING SUPPLY AIR DIFFUSER. REFER TO MECHANICAL DRAWINGS.
- DIFF-N** **DIFF-N** = NEW CONTINUOUS MECHANICAL LINEAR SUPPLY AIR GRILLE. REFER TO MECHANICAL DRAWINGS.
- RET-N** **RET-N** = NEW CONTINUOUS MECHANICAL LINEAR RETURN AIR GRILLE. REFER TO MECHANICAL DRAWINGS.

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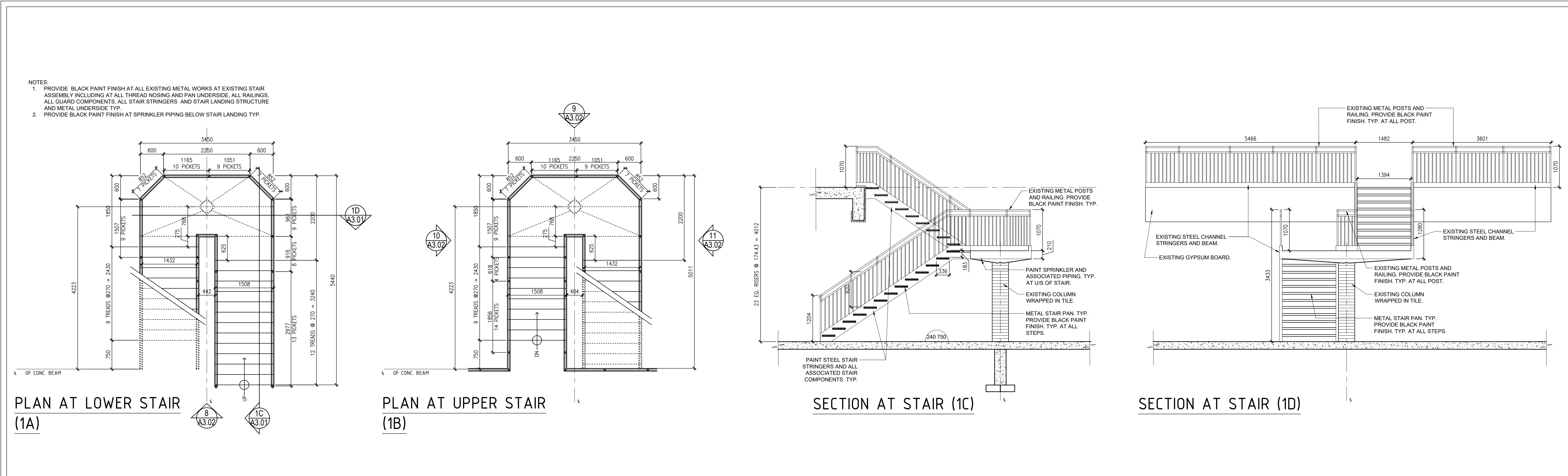
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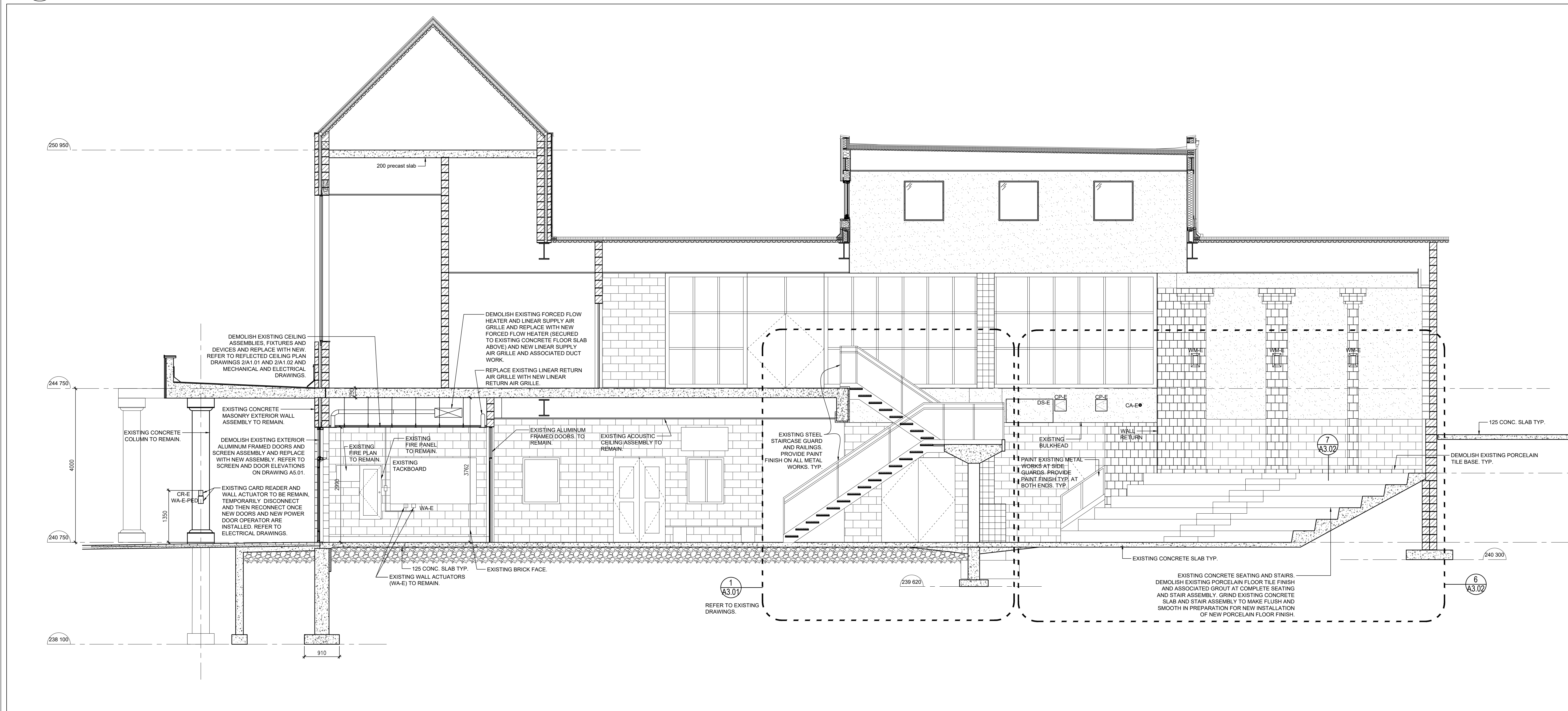
drawing no.

A1.02

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1
A3.01
EXISTING STAIR PLANS AND SECTIONS AT ATRIUM
1:50



2
A3.01
BUILDING SECTION - EXISTING AND PROPOSED
1:50

NOTE: THIS DRAWING IS NOT TO BE SCALED. THE CONTRACTOR IS RESPONSIBLE FOR THE VERIFICATION OF ALL SITE CONDITIONS AND SITE MEASUREMENTS THAT ARE NOT CONSISTENT WITH THE DRAWINGS.

no.	revision	date

no.	issue	date
1.	ISSUED FOR PRE-DESIGN	2024.10.09
2.	ISSUED FOR CLASS D COSTING	2025.01.21
3.	ISSUED FOR TENDER	2025.04.08

no.	issue	date
1.	ISSUED FOR PRE-DESIGN	2024.10.09
2.	ISSUED FOR CLASS D COSTING	2025.01.21
3.	ISSUED FOR TENDER	2025.04.08

project
WATERDOWN DISTRICT HIGH SCHOOL
MAIN ENTRANCE AND FOYER RENOVATIONS
HAMILTON-WENTWORTH DISTRICT SCHOOL BOARD
215 Parkside Dr. Waterdown, ON L8B 1B9
drawing
BUILDING SECTION AND STAIR DETAILS
drawing scale

AS NOTED
ward99 project number
24020 - HWDSB Waterdown DHS

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24020 - HWDSB Waterdown DHS
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A3.01



A3.02

No.	NAME	FLOOR		BASE	WALLS								CEILING			REMARKS
		MAT.	FIN.		NORTH		EAST		SOUTH		WEST		MAT.	FIN.	HEIGHT	
				MAT.	FIN.	MAT.	FIN.	MAT.	FIN.	MAT.	FIN.					
1046	ATRIUM	CONC	POR-N	POR-N	EX CMU	-	EX CMU	-	EX CMU	-	EX CMU	-	EX ACT / EX GBD	-	EX	REFER TO PROPOSED PLAN ON DRAWING 1/A1.02 AND INTERIOR ELEVATIONS ON DRAWING 6/A3.02 FOR AREA OF NEW PORCELAIN FLOOR TILE AND BASE. PROVIDE PAINT FINISH ON ALL METAL WORKS AT EXISTING STAIR ASSEMBLY IN ATRIUM. REFER TO DRAWING 1/A3.01.
1001	VESTIBULE	CONC	EX POR	EX POR / POR-N	EX CMU	-	EX CMU	-	EX CMU	-	EX CMU	-	NEW ACT	-	2990	PROVIDE PAINT FINISHES AT EXPOSED ELECTRICAL CONDUITS. PROVIDE NEW 150mm HIGH PORCELAIN FLOOR BASE AT EXISTING EXTERIOR JAMB WALLS TO MEET EXISTING PORCELAIN TILE AND NEW EXTERIOR ALUMINUM FRAMED DOOR AND SCREEN ASSEMBLY.

<ol style="list-style-type: none"> 1. REFER TO PROPOSED FLOOR PLAN DRAWING 1/A1.02 FOR NEW FLOOR FINISHES AT ATRIUM 1046, AT EXISTING SEATING AREA. 2. WHERE NEW FLOOR FINISHES ARE INDICATED TO BE INSTALLED, EXISTING GROUT IS TO BE REMOVED FROM THE EXISTING CONCRETE FLOOR AND THE CONCRETE FLOOR SLAB IS TO BE CLEANED AND MADE GOOD IN PREPARATION FOR THE INSTALLATION OF NEW FINISHES. GRIND EXISTING CONCRETE FLOOR AS REQUIRED. 3. WHERE NEW WALL BASE IS INDICATED TO BE INSTALLED, EXISTING GROUT IS TO BE REMOVED FROM THE EXISTING CONCRETE WALLS. SURFACES ARE TO BE CLEANED AND MADE GOOD IN PREPARATION FOR THE INSTALLATION OF NEW FINISHES. 4. CLEAN, REPAIR AND MAKE GOOD ALL WALLS AFTER THE REMOVAL OF EXISTING WALL FINISHES, FLOOR BASE AND ALL ASSOCIATED WALL FRAMING, IN PREPARATION FOR NEW FINISH. 5. PAINT ALL EXPOSED NEW AND EXISTING ELECTRICAL CONDUITS AND PIPING AND SPRINKLER PIPING. 6. REFER TO INTERIOR ELEVATION DRAWINGS A3.01 AND A3.02 AS NOTED ON THE FLOOR PLANS, FOR ADDITIONAL NOTES AND DESCRIPTIONS. 7. REFER TO ELECTRICAL AND MECHANICAL DRAWINGS FOR WALL AND CEILING MOUNTED FIXTURES, DEVICES, GRILLES AND FITMENTS. 8. SITE VERIFY ALL EXISTING CONDITIONS AND SERVICES PRIOR TO INSTALLATION OF NEW FINISHES. 9. LIST OF ACRYM: NEW ACT = NEW ACOUSTIC CEILING TILE. EX ACT = EXISTING ACOUSTIC CEILING TILE TO REMAIN. POR-# = NEW PORCELAIN TILE FLOOR AND TILE BASE. EX POR-# EXISTING PORCELAIN FLOOR TILE TO REMAIN. PNT = PAINT EX CMU = EXISTING CONCRETE MASONRY WALL TO REMAIN. EX GBD = EXISTING GYPSUM BOARD FINISHED BULKHEAD. EX = EXISTING 	
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DOOR NO.	ROOM NAME	FIRE RATING	DOOR						DOOR FRAME AND SCREEN				DOOR, DOOR FRAME & SCREEN NOTES	DOOR HARDWARE REQUIREMENTS & NOTES	
			WIDTH	HEIGHT	THICK	MATERIAL	FINISH	TYPE	VISION PANEL	MATERIAL	FINISH	TYPE			VISION PANEL
D1000 (4)	VESTIBULE	-	980mm 980mm 985mm	2150mm	50mm	ALUM.	CLEAR ANODIZED	D1	IGU	ALUM.	CLEAR ANODIZED	S-AL01	IGU	REFER TO DETAIL 1/AS 01 FOR DOOR AND SCREEN FRAME DETAILS.	CONTINUOUS HINGE PANIC HARDWARE, MASTER KEY, INTERFACE BOX, CYLINDER, CONNECTION TO EXISTING CARD READER, OVERHEAD STOP, SILENCER, ELECTRIC STRIKE, POWER DOOR OPERATOR, CONNECTION TO TWO EXISTING ACTUATORS, ACTUATORS, MOUNTING PLATE, REFER TO ELECTRICAL DRAWINGS AND HARDWARE SPECIFICATIONS * NOTE: PROVIDE POWER DOOR OPERATOR AT ONE DOOR ONLY WHERE NOTED; RECONNECT ONE DOOR TO TWO EXISTING ACTUATORS AND ONE EXISTING CARD READER.

<p>1. REFER TO DRAWING 3/A5.01 FOR DOOR AND SCREEN ELEVATION TYPES.</p> <p>2. REFER TO DETAIL 2/A5.01 FOR DOOR HARDWARE LOCATION. NOTE THE FOLLOWING:</p> <ul style="list-style-type: none"> - AT 1025mm FROM TOP OF FINISHED FLOOR TO CENTER OF LOCKSET/LATCH SET. - AT 100mm FROM DOOR SIDE EDGE TO CENTER OF DEADLOCK. - DOOR HINGES TO BE INSTALLED AS FOLLOWS: - TOP HINGE: 125mm MAXIMUM FROM TOP OF HINGE TO TOP EDGE OF DOOR. - CENTER HINGE: CENTERED BETWEEN TOP AND BOTTOM HINGE. - BOTTOM HINGE: 265mm MAXIMUM FROM BOTTOM OF HINGE TO BOTTOM DOOR EDGE. <p>3. LIST OF ABBREVIATIONS: IGU = DOUBLE INSULATED GLAZING UNIT ALUM = ALUMINUM FRAME; ALUMINUM DOOR</p> <p>4. SITE VERIFY ALL EXISTING CONDITIONS PRIOR TO FABRICATION AND INSTALLATION OF NEW ALUMINUM FRAMED DOORS AND SCREEN.</p>	
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The technical drawings illustrate the S-AL01 storefront system. The main elevation view shows a storefront with a rough opening of 3910 and a frame of 3890. It includes a power door operator (1A), vision panels (1B, 1C, 1D), and a screen (1E). The door detail (D1) shows a door with a width of 1025 and a height of 2150, featuring a vision panel (VP) and a double insulated glazing unit (IGU). The hinge detail shows a hinge with a height of 245 and a width of 1025, featuring a push to exit at the interior side and a door pull at the exterior side.

A. TRANSOM HEAD

EXISTING CONCRETE MASONRY EXTERIOR WALL ASSEMBLY TO REMAIN.

EXISTING STEEL ANGLE TO REMAIN.

AIR BARRIER FOAM

CONTINUOUS SEALANT AND BACK ROD

CLEAR ANODIZED EXTRUDED ALUMINUM FRAMED STOREFRONT SCREEN.

DOUBLE INSULATED GLAZING UNITS IN CLEAR ANODIZED EXTRUDED ALUMINUM FRAMED STOREFRONT.

69 152 150 51

B. TRANSOM JAMB

EXISTING CONCRETE MASONRY EXTERIOR WALL ASSEMBLY TO REMAIN.

KEEP AIR BARRIER MEMBRANE ON TO EXISTING JAMBS

CONTINUOUS EXTERIOR TYPE SEALANT AND BACK ROD ON BOTH SIDES TYP.

AIR BARRIER FOAM SEALANT

DOUBLE INSULATED GLAZING UNITS IN CLEAR ANODIZED EXTRUDED ALUMINUM FRAMED STOREFRONT.

CLEAR ANODIZED EXTRUDED ALUMINUM FRAMED STOREFRONT SCREEN.

150 152 69

C. DOOR JAMB

EXISTING CONCRETE MASONRY EXTERIOR WALL ASSEMBLY TO REMAIN.

KEEP AIR BARRIER MEMBRANE ON TO EXISTING JAMBS

CONTINUOUS EXTERIOR TYPE SEALANT AND BACK ROD ON BOTH SIDES TYP.

AIR BARRIER FOAM SEALANT

DOUBLE INSULATED GLAZING UNITS IN CLEAR ANODIZED EXTRUDED ALUMINUM FRAMED STOREFRONT.

CLEAR ANODIZED EXTRUDED ALUMINUM FRAMED GLAZED DOOR. REFER TO DOOR SCHEDULE.

CLEAR ANODIZED EXTRUDED ALUMINUM FRAMED STOREFRONT SCREEN.

150 152 69

D. DOOR SILL

DOUBLE INSULATED GLAZING UNITS IN CLEAR ANODIZED EXTRUDED ALUMINUM FRAMED DOOR.

LINE OF BRICK WALL BEYOND

CLEAR ANODIZED EXTRUDED ALUMINUM STOREFRONT DOOR FRAME.

THRESHOLD.

NEW PORCELAIN FLOOR TILE BASE TO REPLACE EXISTING.

FINISHED FLOOR

69 152 150 300 150

E. TRANSOM TO DOOR

POWER DOOR OPERATOR FOR ONE(1) DOOR ONLY. REFER TO SCREEN ELEVATION 3/AS.5 IF FOR LOCATION.

DOUBLE INSULATED GLAZING UNITS IN CLEAR ANODIZED EXTRUDED ALUMINUM FRAMED STOREFRONT.

CLEAR ANODIZED EXTRUDED ALUMINUM FRAMED STOREFRONT SCREEN.

CLEAR ANODIZED EXTRUDED ALUMINUM STOREFRONT DOOR FRAME.

DOUBLE INSULATED GLAZING UNITS IN CLEAR ANODIZED EXTRUDED ALUMINUM FRAMED DOOR.

152 31 52 69

[illegible]

no.	issue	date
1.	ISSUED FOR PRE-DESIGN	2024.10.09
2.	ISSUED FOR CLASS D COSTING	2025.01.21
3.	ISSUED FOR TENDER	2025.04.08

AS NOTED

ward99 project number

24020 - HWDSB Waterdown DHS

A graphic consisting of two white rectangular boxes separated by a thin vertical black line. The left box contains the text 'Ward99' in a large, bold, black sans-serif font, with 'Ward' on the top line and '99' as a subscript on the bottom line. The right box contains the text 'A5.01' in a large, bold, black sans-serif font.

A5.01

MECHANICAL LEGEND	
	EXISTING RIGID DUCTWORK
	RIGID DUCTWORK
	ACOUSTICALLY LINED DUCTWORK
	SPIN-ON FITTING WITH BALANCING DAMPER
	FLEXIBLE ROUND DUCTWORK
	SUPPLY/FRESH AIR DUCT RISER
	RETURN/EXHAUST AIR DUCT RISER
	DUCT ELBOW WITH TURNING VANES
	FLEXIBLE CONNECTOR
	DOOR UNDERCUT (SIZE AS NOTED)
	THERMOSTAT
	BALANCING DAMPER
	EXISTING PIPEWORK/EQUIPMENT
	REMOVE EXISTING PIPE/DUCT
	NEW PIPE WORK/EQUIPMENT
	PIPE RISER
	CONNECT TO EXISTING
	DENOTES EXISTING TO REMAIN
	SIZE OF DIFFUSER/GRILLE/REGISTER
	TYPE OF DIFFUSER/GRILLE/REGISTER
	AIR QUANTITY (CFM)

DRAWING LIST

M1 – MECHANICAL LEGEND, SCHEDULES AND KEY PLAN
M2 – MECHANICAL LAYOUTS

GENERAL NOTES – MECHANICAL

- WORK SHALL INCLUDE STARTUP & COMMISSIONING OF SPECIFIED SYSTEMS, FURNISHING OF OPERATING AND MAINTENANCE INSTRUCTIONS, TRAINING STAFF ABOUT THE OPERATION AND ONE (1) YEAR GUARANTEE, COMMENCING ON THE DATE OF ACCEPTANCE BY THE OWNER.
- WORK SHALL ALSO INCLUDE TESTING AND BALANCING OF AIR QUANTITIES TO PLAN REQUIREMENTS. MAKE ALL ADJUSTMENTS AS REQUIRED TO PROVIDE DESIGN AIR FLOW.
- FURNISH ALL MATERIAL AND EQUIPMENT AS SPECIFIED, EXCEPT WHERE SPECIFIC APPROVAL FOR SUBSTITUTION IS GIVEN IN WRITING BY THE TENANT.
- PROPOSAL SHALL BE BASED ON THE SPECIFIED MATERIAL AND EQUIPMENT IN ORDER TO PROMOTE EQUAL BIDDING.
- VERIFY LOCAL CONDITIONS AT THE SITE. COMPLY WITH ALL APPLICABLE CODES. SECURE AND PAY FOR ALL REQUIRED PERMITS.
- REFER TO ARCHITECTURAL AND ELECTRICAL DRAWINGS FOR CO-ORDINATION OF ALL RELATED WORK.
- ALL EXISTING SERVICES SHOWN ARE APPROXIMATE AND BASED ON EXISTING RECORD DRAWINGS. CONTRACTOR SHALL VISIT THE SITE PRIOR TO COMMENCING ALL WORK AND VERIFY ALL CONNECTIONS, DUCT SIZES, AND LOCATIONS.
- THE MECHANICAL DRAWINGS DO NOT SHOW ALL THE ARCHITECTURAL AND STRUCTURAL DETAILS AND ANY SPECIFICATIONS INFORMATION INVOLVING ACCURATE MEASURING OF THE BUILDING SHALL BE TAKEN FROM THE BUILDING DRAWINGS OR AT THE BUILDING. MAKE, WITHOUT ADDITIONAL CHARGE, ANY NECESSARY CHANGES OR ADDITIONS TO THE RUNS OF DUCTS TO ACCOMMODATE THE ABOVE CONDITIONS.
- ALL CUTTING, SCANNING, CORING, PATCHING, MAKING GOOD AND PAINTING WORK REQUIRED AS A RESULT OF THE DEMOLITION AND/OR NEW MECHANICAL WORK SHALL BE COMPLETED BY THE GENERAL CONTRACTOR AS A PART OF THE BASE CONTRACT.

A) GENERAL MECHANICAL CONDITIONS

- CONTRACTORS SHALL VERIFY AND COORDINATE WITH ALL OTHER TRADES ON THIS PROJECT CONCERNING ALL MECHANICAL AND ELECTRICAL SERVICES THAT AFFECT THE COMPLETION OF THEIR WORK. THIS INCLUDE, BUT NOT ONLY, THE ELECTRICAL SITE SERVICE VOLTAGE AND THAT OF ALL MECHANICAL EQUIPMENT SUPPLIED BY THIS CONTRACTOR, AND SIZE AND LOCATION OF ALL OTHER SERVICES. ANY DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY.
- CONFORM TO INSTRUCTION TO BIDDERS, GENERAL CONDITIONS AND GENERAL REQUIREMENTS.
- THIS SECTION 15 A SHALL APPLY DIVISION 15 SECTIONS.
- BEFORE SUBMITTING BIDS, IT IS SUGGESTED THAT BIDDING CONTRACTOR EXAMINE EXISTING SITE CONDITIONS.
- PROVIDE ALL LABOUR, MATERIALS AND EQUIPMENT NECESSARY TO EXECUTE THE WORK SHOWN AND DESCRIBED. INSTALLATION OF MATERIALS SHALL MEET ALL APPLICABLE PROVINCIAL, FEDERAL AND MUNICIPAL REQUIREMENTS.
- OBTAIN PERMITS AND ALL FEES FOR WORK AND REQUIRED INSPECTIONS.
-
- THE DRAWINGS SHALL BE CONSIDERED DIAGRAMMATIC ONLY. ALL MEASUREMENTS SHALL BE TAKEN FROM BUILDING SITE AND ARCHITECT'S DRAWINGS.
- ALL MATERIALS SHALL CONFORM CSA, HEPC, AND CEC REQUIREMENTS AND SHALL BEAR CSA LABEL. GAS FIRED EQUIPMENT SHALL BEAR CSA LABEL.
- ALL EXISTING SERVICES MUST BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION. THIS CONTRACTOR TO PROVIDE ALL NECESSARY TEMPORARY LINES ETC., SO AS TO CARRY OUT ABOVE.
- TEMPORARY LIGHT, POWER AND WATER BY GENERAL CONTRACTOR.
- ALL CUTTING AND PATCHING FOR MECHANICAL WORK WILL BE CARRIED OUT BY THE MECHANICAL CONTRACTOR.
- PROVIDE TEMPORARY BUILDINGS AND MATERIAL STORAGE AS REQUIRED AND BE RESPONSIBLE FOR ANY LOSS OR DAMAGE THERE TO.
- SUBMIT SAMPLES OF MATERIALS WHEN REQUIRED.
- SUBMIT SHOP DRAWINGS FOR REVIEW COVERING MAJOR MANUFACTURED ITEMS, I.E. FANS, PLUMBING FIXTURES, HVAC EQUIPMENT, ETC.
- SUPPLY AND LOCATE ALL BASES, SUPPORTS, SLEEVES, CURBS, ETC. REQUIRED FOR THIS WORK. FLASHING BY ROOF TRADES. COUNTERFLASHING BY THIS CONTRACTOR, EXCEPT AS NOTED ON DRAWING.
- SUPPLY PROPER STARTER WITH OVERLOAD PROTECTION AND DISCONNECT SWITCHES FOR POWERED MECHANICAL EQUIPMENT AND HAND OVER TO ELECTRICAL CONTRACTOR FOR INSTALLATION. THIS DOES NOT INCLUDE ISOLATION SWITCHES, UNLESS STATED SPECIFICALLY.
- ALL POWER WIRING BY ELECTRICAL CONTRACTOR, CONTROL AND INTERLOCK WIRING BY MECHANICAL CONTRACTOR.
- SUPPLY AND INSTALL ALL NECESSARY ACCESS FOR MECHANICAL EQUIPMENT. WHERE NECESSARY, DOORS SHALL BE RATED TO SUIT FIRE ASSEMBLY RATING.
- DO ALL EXCAVATING AND BACKFILLING FOR MECHANICAL WORK.
- PIPE HANGERS SHALL BE CLEVIS SPLIT TYPE WITH MILD STEEL RODS. FOR COPPER PIPE USE PLASTIC INSERTS. DO NOT SUPPORT EQUIPMENT OR PIPING FROM ROOF DECK WITHOUT PERMISSION FROM ARCHITECT'S. SUPPLY AND INSTALL NECESSARY STEEL TO TRANSFER LOAD TO STRUCTURED MEMBERS.
- ALL DISSIMILAR METALS (STEEL–COPPER, ETC. SHALL BE SEPARATED USING GASKETS OR EPICODI–ELECTRIC" FITTINGS.
- INSTALL CHROME–PLATED ESCUTCHEONS WHERE BRANCH PIPES PASS THROUGH FINISHED SURFACE.
- KEEP ACCURATE RECORD "AS BUILT" DRAWINGS AND SUBMIT THESE BEFORE FINAL CERTIFICATE OF COMPLETION.
- ALL SURFACES MUST BE LEFT CLEAN AND SMOOTH, READY FOR PAINTING BY GENERAL TRADES.
- IDENTIFY ALL PIPING. USE STENCILS OR COLOUR CODES AND DIRECTIONAL ARROWS.
- ON COMPLETION OF THE WORK, REMOVE FROM THE PREMISES ALL TOOLS, DEBRIS, SURPLUS AND WASTE MATERIALS RESULTING FROM OPERATIONS UNDER THIS SECTIONS. CLEAN ALL EQUIPMENT AND LEAVE ALL ITEMS IN PERFECT ORDER READY FOR OPERATION.
- AFTER ACCEPTANCE, INSTRUCT OWNER IN EQUIPMENT OPERATION AND PROVIDE HM WITH OPERATING AND MAINTENANCE STANDARDS AND EXTENDED WARRANTY EQUIPMENT.
- THE CONTRACTOR SHALL, BEFORE FINAL PAYMENT IS MADE, GUARANTEE ALL MATERIALS AND WORKMANSHIP SUPPLIED BY HIM IN THE PERFORMANCE OF THIS CONTRACT FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE AND SHALL, WHEN CALLED UPON, MAKE GOOD WITHOUT FURTHER COST TO THE OWNER SUCH DEFECTS AS MAY APPEAR WITHIN THIS PERIOD.

B) FIELD QUALITY CONTROL

- OPERATE SYSTEM TO FULL CAPACITY AND VERIFY PROPER, SAFE EFFICIENT OPERATION OF ALL PARTS AND EACH COMPLETE. SYSTEM. OIL MOTORS AND GREASE BEARINGS BEFORE OPERATING EQUIPMENT.
- WHEN WORK IS COMPLETE AND SYSTEM IS IN OPERATION, ADJUST VALVES, DAMPERS AND THERMOSTATS SO THAT THERE IS EVEN DISTRIBUTION OF COOLING, HEATING AND VENTILATION AIR THROUGHOUT. TURN OVER TO OWNER, NECESSARY KEYS, HANDLES AND OPERATING DEVICES FOR EACH SYSTEM.
- TEST AND BALANCE AIR SYSTEM SUCH THAT AIR QUANTITIES AT EACH OUTLET, GRILLE AND REGISTER ARE WITHIN 5% OF DESIGN FIGURES. FAN SPEEDS, SPLITTER AND BALANCING DAMPERS SHALL BE ADJUSTED TO ACHIEVE THESE RESULTS. PREPARE AND SUBMIT A FINAL BALANCING REPORT FOR CHECKING AND APPROVAL.
- IF SPOT CHECKING SYSTEMS REVEALS ACTUAL AIR QUANTITIES DO NOT AGREE WITH AIR BALANCE REPORT, REBALANCE SYSTEMS UNTIL SATISFACTORY, WITHOUT EXTRA REMUNERATION.

C) DUCTWORK

- DUCTS & PLENUM BOXES SHALL BE CONSTRUCTED OF #10 GAUGE FIRST QUALITY, SMOOTH FINISHED, COLD ROLLED GALVANIZED STEEL. PER SMACNA W.G. SEAL CLASS "B" GUARANTEED TO DOUBLE SEAM WITHOUT FRACTURING.
- MAKE JOINTS SUITABLE AIR TIGHT WITH LAPS IN DIRECTION OF AIR FLOW. WHENEVER POSSIBLE, SIZES OF DUCTS SHALL CONFORM TO THOSE INDICATED. WHERE STRUCTURAL CONDITIONS REQUIRE SHAPE BE MODIFIED, DUCTS MUST HAVE SAME CROSS-SECTIONAL AREA INDICATED AND WIDTH OF DUCT SHALL NOT EXCEED SIX TIMES DEPTH EXCEPT WITH SPECIFIC APPROVAL. DUCTWORK SHALL BE IN ACCORDANCE WITH ASHRAE GUIDE.
- PROVIDE EXTENSION COLLARS FOR OUTLETS, AIR GUIDE VANES AND OTHER SPECIAL FEATURES INDICATED OR REQUIRED. TRANSITION DUCTS AT NOT MORE THAN 30 DEGREE SLOPE. ELBOWS AND BENDS SHALL BE MINIMUM ONE DUCT WIDTH RADIUS.
- DUCT SEALANT SHALL BE MULTIPURPOSE AIR DUCT SEALANT, U.L.C. LABELED, AS PROVIDED BY TRANS CONTINENTAL EQUIPMENT, CONCORD OR FLEXMASTER DUCT BOND II (RICHMOND HILL).
- PITOT TUBE OPENING ENCLOSURES SHALL BE DIAL #1000 OR 2000 (AIR POWER EQUIPMENT, TORONTO).
- AIR TURNING ASSEMBLY SHALL BE DOUBLE THICKNESS TYPE WITH DURO DYNE #WR-2 VANE RAILS.
- ACOUSTIC DUCT LINER SHALL BE 25 MM THICK FIBERGLAS OR EQUAL RIGID COATED DUCT LINER OF 4-1/2# DENSITY WITH FLAME SPREAD RATING OF 25, FUEL CONTRIBUTED RATING OF 15 AND SMOKE DEVELOPED RATING OF 40 WITH NEOPRENE FACE COATING.

D) INSULATION

- INSULATE NEW AND AFFECTED EXISTING DUCTWORK. INSULATION, JACKETS AND ADHESIVES SHALL BE IN COMPLIANCE WITH ONTARIO BUILDING CODE AND BE INSTALLED TO MANUFACTURER'S RECOMMENDATIONS MAKE SUITABLE OPENINGS IN INSULATION FOR INSPECTION OUTLETS AND EQUIPMENT NAMEPLATES.
- INSULATION SHALL CONTINUE THROUGH SLEEVES AND OPENINGS EXCEPT AT "REQUIRED FIRE SEPARATIONS" WHERE SLEEVES AND OPENINGS SHALL BE "FIRE STOPPED". SEE SLEEVES. INSULATION SHALL BE BUTTED TIGHT TO FIRE STOPPING AND VAPOR SEALED.
- WORK WHICH IS INACCESSIBLE FOR APPLICATION OF INSULATION AFTER INSTALLATION SHALL BE INSULATED AND FINISHED BEFORE BEING PLACED IN POSITION.
- SEAL DUCT INSULATION WITH MASTIC AT ALL JOINTS AND PINS. TAPE ALL JOINTS WITH APPROVED SELF-ADHESIVE FOIL FACED GLASS FIBRE REINFORCED 50 MM WIDE VAPOR BARRIER TAPE. WHERE DUCTS ARE SOUND LINED OR FIRE PROOFED THERMAL INSULATION IS NOT REQUIRED BUT SHALL OVERLAP LINER AT LEAST 150 MM (6") EXCEPT WHERE NOTED.
- DO NOT BREAK CONTINUITY OF INSULATION VAPOR BARRIER BY HANGER OR SUPPORT. REMOVE HANGERS TEMPORARILY TO FACILITATE INSTALLATION OF VAPOR BARRIER WHERE NECESSARY WHERE NECESSARY SHALL BE REPLACE WITH NEW INSULATION.
- PERFORM INSULATION WORK USING QUALIFIED INSULATION APPLICATORS, IN ACCORDANCE WITH LATEST TRADE APPLICATION METHODS AND TO THE OWNER'S DESIGNER'S APPROVAL.
- APPLY INSULATION UNDER AMBIENT TEMPERATURE CONDITIONS IN ACCORDANCE WITH INSULATION OR ADHESIVE MANUFACTURER'S RECOMMENDATIONS.
- DO NOT APPLY INSULATION UNTIL DUCTWORK HAS BEEN TESTED, INSPECTED, VERIFIED, AND ACCEPTED BY THE CONSULTANT.
- APPLY INSULATION NEATLY AND TIGHTLY IN UNBROKEN LENGTHS AND WITH ENDS OF SECTIONS FIRMLY AND SQUARELY BUTTED OR ENGAGED TOGETHER. LAP CANVAS OR OTHER SPECIFIED WRAPPING OVER ALL JOINTS AND THOROUGHLY CEMENT DOWN WITH ADHESIVE. EXTEND INSULATION THROUGH SLEEVES IN WALLS (EXCEPT FIRE WALLS) OR OTHER OPENINGS IN BUILDING TO MAKE INSULATION AND VAPOR BARRIER CONTINUOUS AND OF UNIFORM DIAMETER.
- COVER ALL EXHAUST DUCTWORK FOR A MINIMUM LENGTH OF 10'-0" (3.05 M) FROM ROOF/WALL OPENINGS, WITH 2" (50 MM) THICK RIGID FIBREGLASS INSULATION WITH FACTORY APPLIED REINFORCED ALUMINUM FOIL VAPOUR BARRIER. SEAL ALL JOINTS AND BREAKS WITH 4" (100 MM) WIDE STRIPS OF OPEN MESH GLASS CLOTH OR TAPE IMBEDDED BETWEEN TWO COATS OF VAPOUR BARRIER SEALANT.
- SECURE INSULATION ON EXPOSED RECTANGULAR DUCTWORK WITH WELDED IMPALING PINS AND SPEED WASHER TYPE FASTENERS AT 300 MM (12") CENTRES. PROVIDE A MINIMUM OF TWO ROWS OF FASTENERS ON EACH SIDE OF DUCT.

E) HOT WATER HEATING SYSTEM

- PIPING SHALL BE:
 - STEEL: ASTM A53 GRADE B, SEAMLESS OR ERW, SCHEDULE 40.
 - COPPER WATER TUBE OPTION: ASTM B88, TYPE K OR L, HARD DRAWN, SMOOTH DRAWN TUBING, 20 MM (3/4 INCH) AND LARGER, MAY BE USED FOR RUNOUTS TO FLOOR MOUNTED FAN COIL UNITS OR PERIMETER CONVECTORS

F) BALANCING

- SUPPLY AND INSTALL ALL NECESSARY BALANCING AND VOLUME DAMPERS & VALVES. BALANCE THE AIR & WATER SYSTEMS TO THE AIR VOLUMES & FLOW SHOWN ON THE DRAWINGS. SUBMIT BALANCING REPORT TO THE CONSULTANT AND OWNER. AIR & WATER BALANCING MUST BE PERFORMED BY A REPRESENTATIVE OF THE ASSOCIATED AIR BALANCING COUNCIL, CANADIAN CHAPTER AND SHALL BE APPROVED BY THE BUILDING OWNER. BALANCING OF AIR & WATER SYSTEM SHALL BE AT FULL LOAD CONDITIONS. THE BALANCING REPORT SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING:
 - AN DATA SHEET:
 - SUPPLY AND RETURN FANS AIR FLOW
 - MAKE, MODEL, SERIAL NUMBER
 - MOTOR H.P., VOLTAGE, RATED AMP, RUNNING AMP
 - FAN PULLEY SIZE, MOTOR PULLEY SIZE, BELT SIZE.
 - AIR OUTLET SHEET:
 - OUTLET NUMBER, MAKE, MODEL
 - AREA FACTOR, REQUIRED VELOCITY & CFM, ACTUAL VELOCITY & CFM
 - AIR TEMPERATURE SUPPLIED TO TENANT SPACE AT LAST SUPPLY
 - AIR DIFFUSER ON EACH DUCT RUN
 - IF HOOD IS USED, ACTUAL CFM AND REQUIRED CFM
 - SCHEMATIC DRAWING:
 - SINGLE LINE DRAWING WITH OUTLETS NUMBERED CORRESPONDING TO AIR OUTLET SHEETS.

G) BUILDING AUTOMATION SYSTEM

- ALL WORK RELATED TO NEW AND AFFECTED MECHANICAL EQUIPMENT CONTROLS SHALL BE UNDERTAKEN BY EXISTING VENDOR (NAME: CONVERGINT; TEL:-519-248-1111) PRESENT AT THE SCHOOL TO HWDSB STANDARDS. VERIFY SCOPE OF WORK ON SITE AND REQUEST QUOTE FROM THE RESPECTIVE VENDOR AND INCLUDE IN BID PRICE. ALL WIRING SHALL BE MECHANICALLY PROTECTED BY RACEWAYS AND INSTALLED IN AESTHETIC MANNER IN FINISHED AREAS.

H) FIRE PROTECTION SPECIFICATION

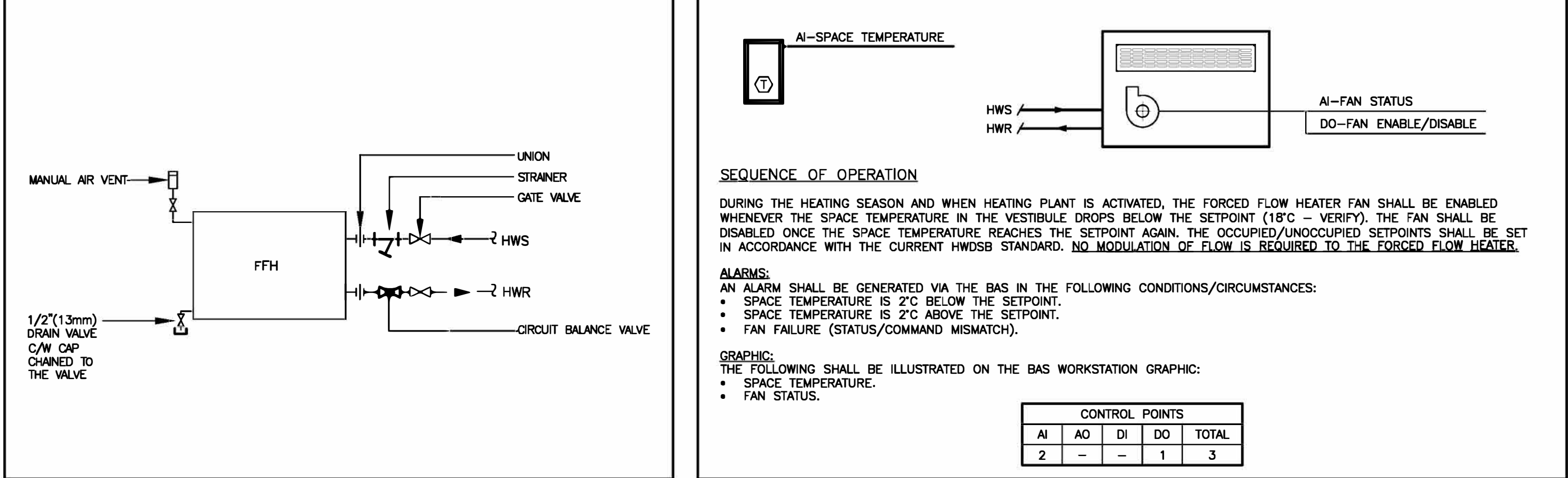
- SPRINKLER DESIGN AND INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF THE NFPA 13, ALL APPLICABLE CODES AND REGULATIONS AND AUTHORITIES HAVING JURISDICTION ON THIS PROJECT. AN APPROVED, PROFESSIONAL ENGINEER DESIGNED AND STAMPED COPY OF SPRINKLER PLANS, BEARING THE APPROVAL OF THE RATING AGENCY AND LOCAL AUTHORITIES SHALL BE SUBMITTED TO CONSULTANT AND BUILDING DEPARTMENT. AT END OF CONSTRUCTION, SUBMIT INSTALLATION COMPLIANCE LETTER FROM THE DESIGN ENGINEER AND MATERIAL TEST CERTIFICATE FOR ABOVE GROUND PIPING.
- PROVIDE HYDRAULICALLY DESIGNED AUTOMATIC SPRINKLER SYSTEM AS PER NFPA 13 STANDARD.
- INSTALL ALL PIPING, DROPS AND HEADS. PROVIDE TEST CONNECTIONS PIPED TO DRAIN OR TO OUTDOORS. HAVE SYSTEM TESTED TO THE APPROVAL OF AUTHORITIES, UNDERWRITERS AND THE OWNER.
- ENSURE SPRINKLER SYSTEM INSTALLATION IS COORDINATED WITH DUCTWORK INSTALLATION. SPRINKLER HEAD POSITIONING SHALL COMPLY WITH NFPA 13 REQUIREMENTS FOR DISTANCE AND HEIGHT INSTALLATION.
- MAINTAIN ALL SPRINKLER AND ANY OTHER FIRE AND LIFE SAFETY PROTECTION SERVICES IN OPERATION AT ALL TIMES DURING CONSTRUCTION.
- CO-ORDINATE CHANGES TO EXISTING SPRINKLER SYSTEM WITH ALL TRADES PRIOR TO INSTALLATION. MODIFY EXISTING SPRINKLER PIPING AS REQUIRED TO COMPLY WITH NFPA 13 CODE, AND TO SUIT NEW SPRINKLER HEAD LAYOUT AND TO AVOID INTERFERENCE WITH NEW DUCTWORK AND EQUIPMENT. ALLOWANCES FOR ADDITIONAL WORK AND MATERIALS REQUIRED TO SUIT SITE CONDITIONS AND RECONDITIONS OF EXISTING AND/OR NEW SERVICES SHALL BE INCLUDED IN TENDER PRICE.



1 GROUND FLOOR - KEY PLAN

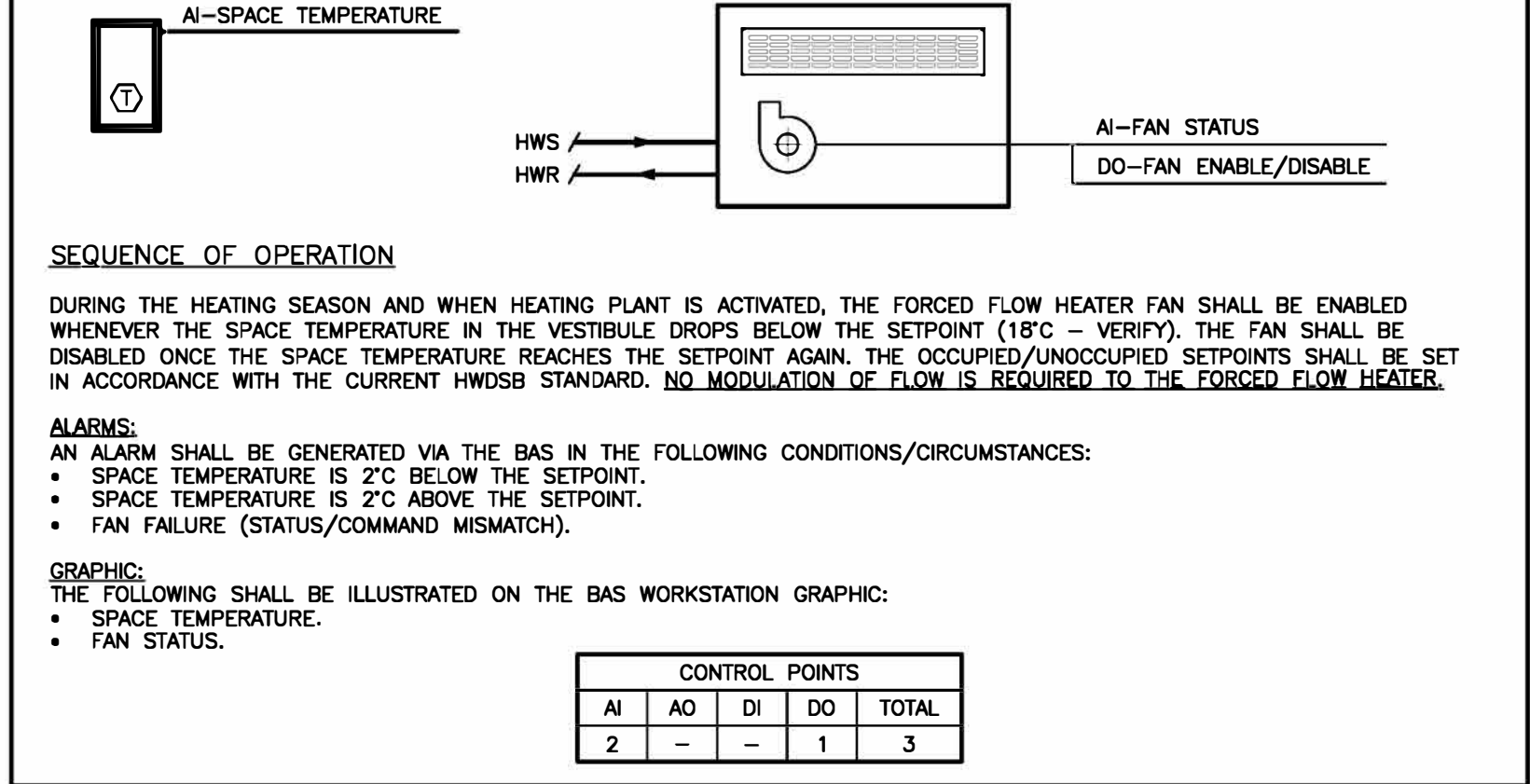
M1 SCALE: 1 : 1000

FORCE FLOW HEATER SCHEDULE												
EQUIPMENT DESIGNATION	MANUFACTURER	MODEL	UNIT CONFIG.	UNIT SIZE (mm)	UNIT WEIGHT (Kg)	HEATING CAPACITY (kW)	HEATING FLOW (L/S)	EWI (deg C)	WPD (kPa)	AIRFLOW (L/S)	MOUNTING	HIGH STATIC MOTOR HP/RPM
FFH-1	ENGINEERED AIR OR SIGMA	CUH-6	6	965x711x241	62	14.65	0.53	82.22	10.65	283	PENDANT	1/6 HP (2 NOS.) 1550 RPM
NOTES:												
1. FOR PENDANT APPLICATION AND DUCTED SUPPLY, COORDINATE ROUGH-IN OF PIPING AND HEATER CABINET WITH THE CEILING GRID INSTALLER (AS APPLICABLE).												
2. HEATERS SHALL BE CONTROLLED BY A WALL-MOUNTED THERMOSTAT (BY CONTROLS CONTRACTOR). BAS WILL ENABLE/DISABLE FAN AS REQUIRED. NO MODULATION OF WATER FLOW REQUIRED.												
3. COLOR/FINISH: COMPUTER WHITE.												



2 FORCED FLOW HEATER PIPING DETAIL

M1 SCALE: N.T.S



3 FORCED FLOW HEATER CONTROL SCHEMATIC

M1 SCALE: N.T.S

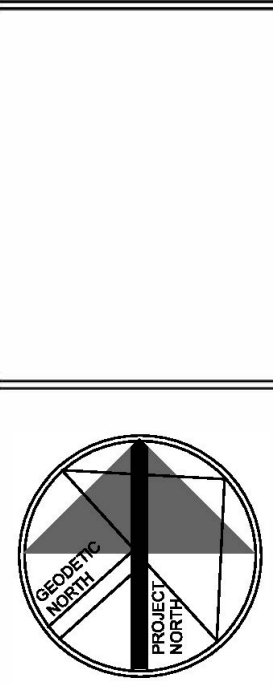
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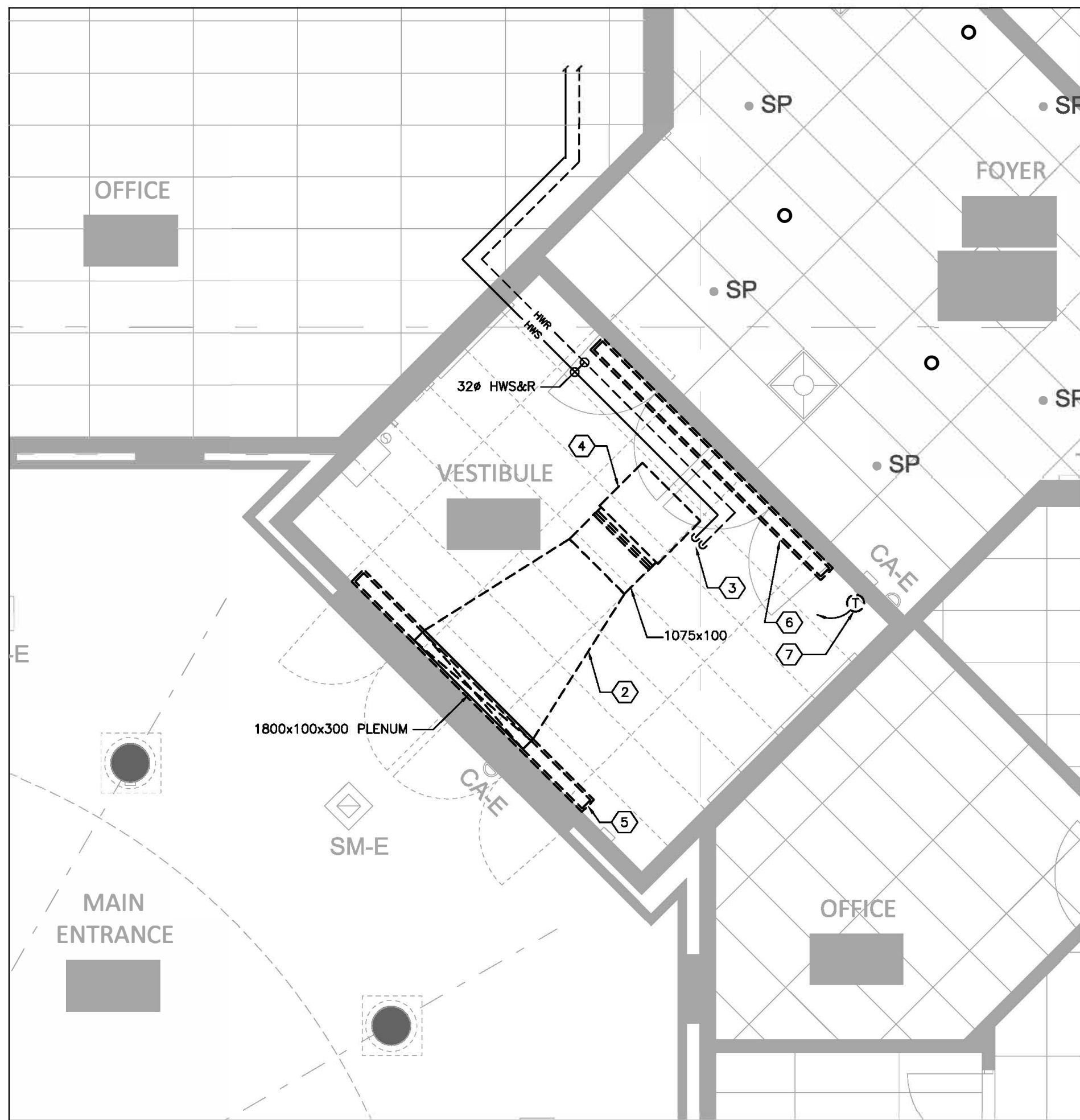
drawing
MECHANICAL LEGEND, SCHEDULES & KEY PLANS

drawing scale

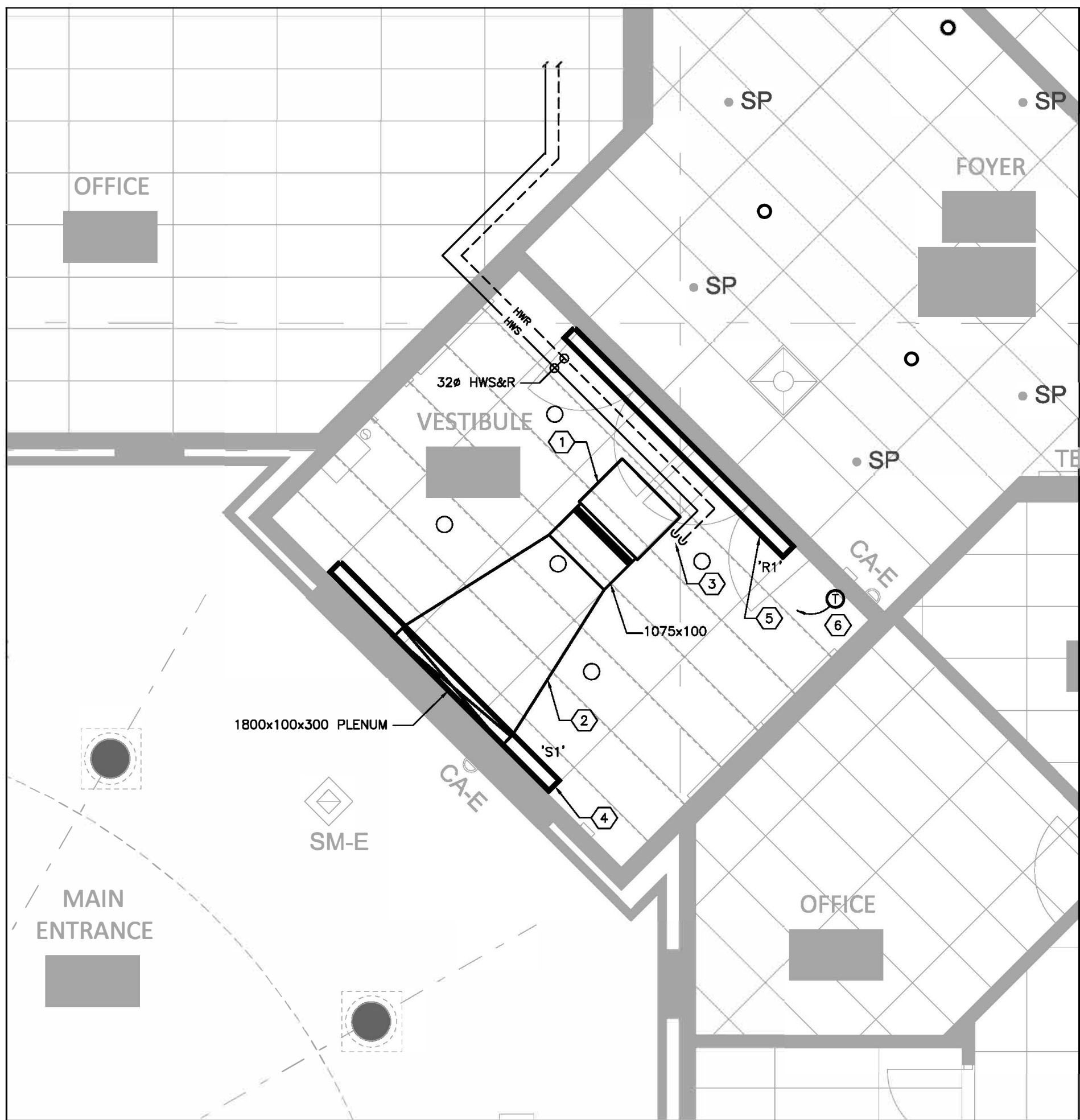
AS NOTED

drawing no.

M1



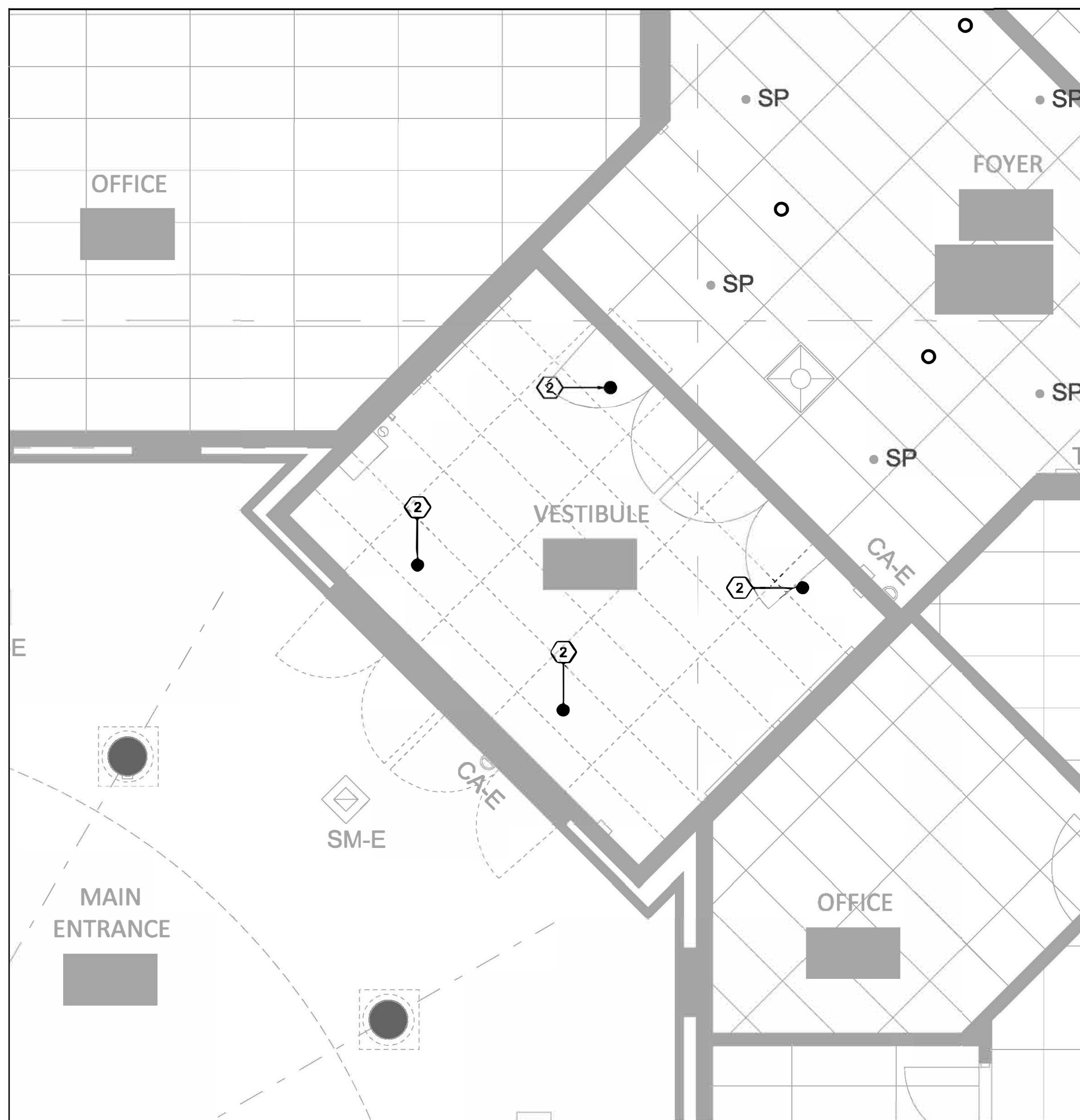
1 PART GROUND FLOOR - HEATING SYSTEM EXISTING/DEMOLITION LAYOUT
M2 SCALE: 1 : 50



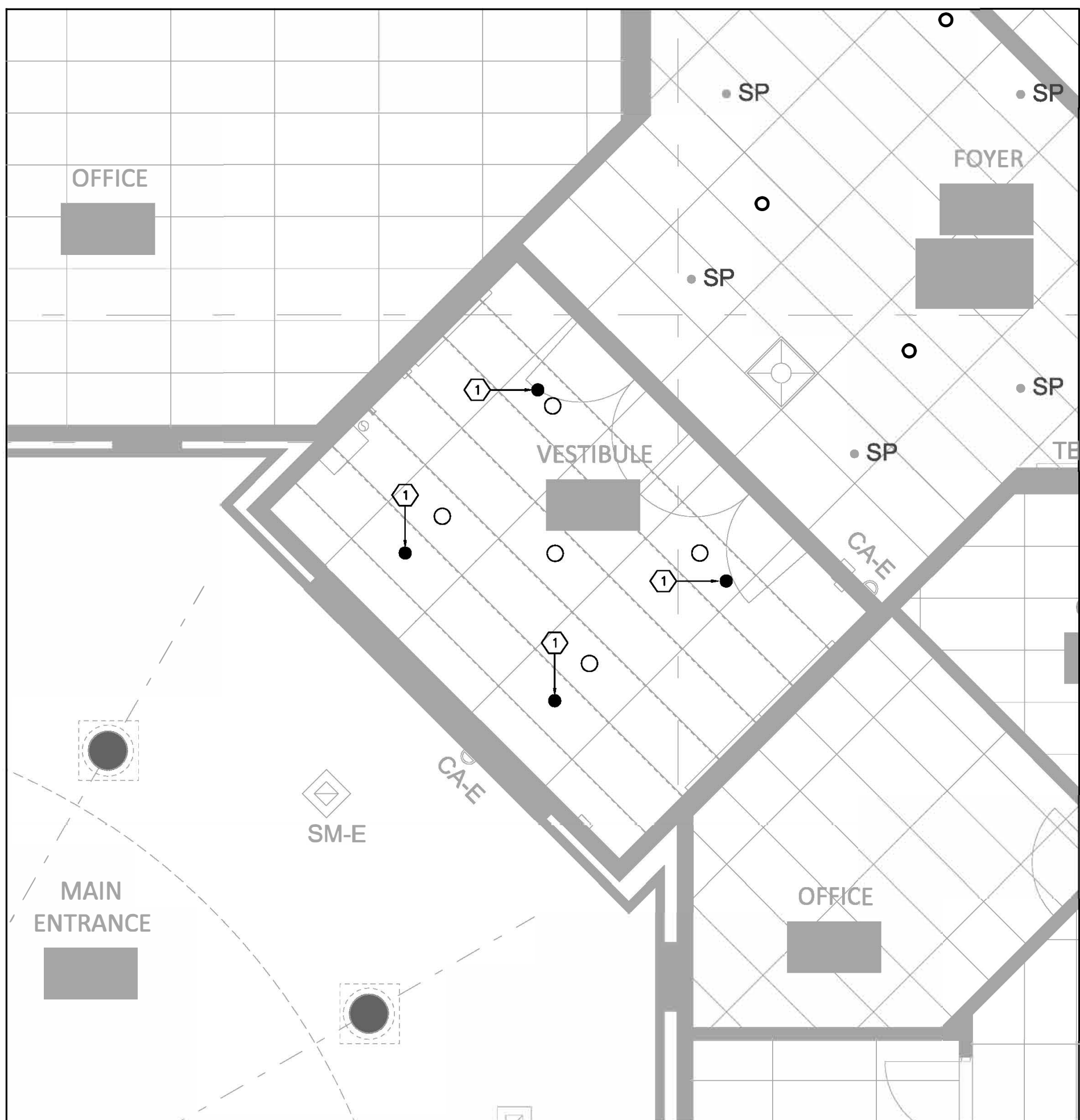
2 PART GROUND FLOOR - HEATING SYSTEM NEW WORK LAYOUT
M2 SCALE: 1 : 50

- EXISTING/DEMOLITION HEATING WORK LAYOUT NOTES:**
1. VISIT SITE TO VERIFY SCOPE OF WORK.
 2. DISCONNECT AND REMOVE EXISTING DUCTWORK CONNECTED TO F/F CABINET HEATER AND PLENUM BOX CONNECTED TO LINEAR SUPPLY AIR GRILLE.
 3. DISCONNECT EXISTING HOT WATER HEATING SUPPLY AND RETURN PIPING SERVING THE F/F CABINET HEATER. REMOVE EXISTING CONTROLS AND SHUT/OFF VALVES. REWORK EXISTING HWS&R PIPING TO FACILITATE DEMOLITION AND NEW WORK.
 4. REMOVE EXISTING F/F CABINET HEATER C/W HANGERS, LOCATED INSIDE THE CEILING SPACE.
 5. REMOVE EXISTING CEILING MOUNTED SUPPLY AIR LINEAR GRILLE.
 6. REMOVE EXISTING CEILING MOUNTED RETURN AIR LINEAR GRILLE.
 7. REMOVE EXISTING THERMOSTAT C/W CONTROLS RACEWAYS AND WIRING TIED TO CONTROL VALVE. ALL CONTROLS WORK SHALL BE DONE BY HWS&R VENDOR (NAME: CONVERGINT; TEL:1-519-248-1111). INCLUDE ALL REQUIRED PRICING FROM THE BAS VENDOR IN THE BID PRICE.

- HEATING NEW WORK LAYOUT NOTES:**
1. PROVIDE NEW F/F CABINET HEATER C/W HANGERS WITH VIBRATION ISOLATORS, LOCATED INSIDE THE CEILING SPACE. VERIFY CEILING SPACE AN FIT PRIOR TO ORDERING. SUPPORT UNIT FROM BUILDING STRUCTURE.
 2. PROVIDE NEW DUCTWORK CONNECTED TO F/F CABINET HEATER. PROVIDE FLEXIBLE DUCTWORK CONNECTION AT THE UNIT. PROVIDE PLENUM BOX CONNECTED TO LINEAR SUPPLY AIR GRILLE. SEAL (NO LEAKAGE) CONNECTION BETWEEN PLENUM BOX AND THE LINEAR GRILLE. EXTERNALLY INSULATED DUCTWORK AND PLENUM BOX.
 3. RECONNECT EXISTING HOT WATER HEATING SUPPLY AND RETURN PIPING TO THE F/F CABINET HEATER. PROVIDE NEW ACCESSORIES, CONTROLS & SHUT-OFF VALVES. REWORK EXISTING HWS&R PIPING TO FACILITATE NEW WORK.
 4. PROVIDE NEW CEILING MOUNTED SUPPLY AIR LINEAR GRILLE.
 5. PROVIDE NEW CEILING MOUNTED RETURN AIR LINEAR GRILLE.
 6. PROVIDE NEW SPACE TEMPERATURE SENSOR C/W TAMPERPROOF GUARD, CONTROLS RACEWAYS AND WIRING TIED FOR FAN OPERATION. ALL CONTROLS WORK SHALL BE DONE BY THE EXISTING BAS VENDOR (NAME: CONVERGINT; TEL:1-519-248-1111) PRESENT AT THE SCHOOL. INCLUDE FOR ALL REQUIRED CHARGES BY CONTROLS CONTRACTOR IN THE BID PRICE. SUPPLY & INSTALLATION SHALL BE DONE TO HWS&R CONTROLS STANDARDS.



3 PART GROUND FLOOR - SPRINKLERS EXISTING/DEMOLITION LAYOUT
M2 SCALE: 1 : 50



4 PART GROUND FLOOR - SPRINKLERS NEW WORK LAYOUT
M2 SCALE: 1 : 50

- EXISTING/DEMOLITION SPRINKLERS WORK LAYOUT NOTES:**
1. VISIT SITE TO VERIFY SCOPE OF WORK PRIOR TO PRICING.
 2. DISCONNECT AND REMOVE EXISTING SPRINKLER HEAD TO ALLOW FOR CEILING DEMOLITION. REWORK PIPING AS REQUIRED FOR NEW SPRINKLERS INSTALLATION IN THE NEW CEILING.
 3. REFER TO SPECIFICATIONS FOR ADDITIONALLY REQUIRED SCOPE OF WORK DETAILS.

- SPRINKLERS NEW WORK LAYOUT NOTES:**
1. PROVIDE NEW SPRINKLER HEAD AS PER NFPA 13. REWORK EXISTING PIPING AS REQUIRED FOR NEW SPRINKLERS INSTALLATION IN THE NEW CEILING.
 2. ALL WORK SHALL BE DONE AS PER NFPA 13.
 3. REFER TO SPECIFICATIONS FOR ADDITIONALLY REQUIRED SCOPE OF WORK DETAILS.

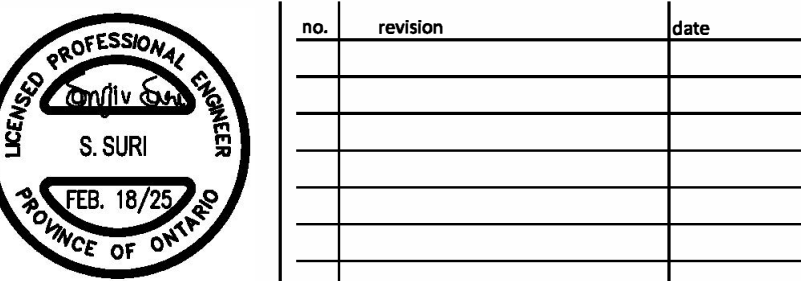
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no.	revision	date
1.	ISSUED FOR REVIEW	2025.01.03
2.	ISSUED FOR PERM/TENDER	2025.02.18

project
HWS&R WATERDOWN DHS RENOVATION

215 Parkside Dr, Waterdown, ON L8B 1B9

drawing
MECHANICAL LAYOUTS

drawing scale
AS NOTED

drawing no.

M2

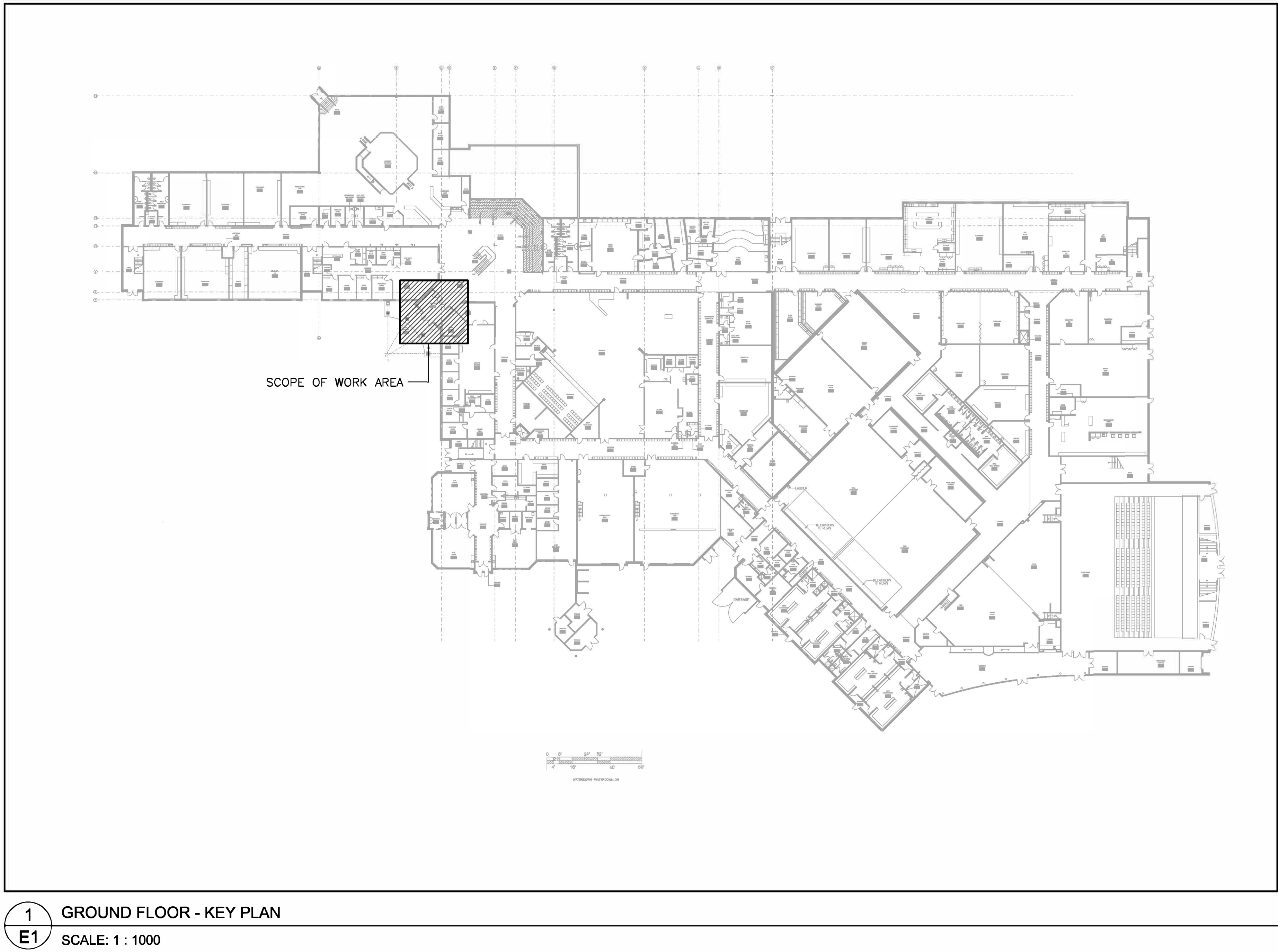
ELECTRICAL LEGEND	
ES	ELECTRICAL STRIKE
CR	CARD READER
DC	DOOR CONTACT
MS	MOTION SENSOR
⚡	DIRECT POWER CONNECTION
□	DOOR OPERATOR PUSH BUTTON OR PLATE
⏏	FUSED DISCONNECT SWITCH
⏏	UN-FUSED DISCONNECT SWITCH
⏏	POWER RECEPTACLE MOUNTED AT STANDARD HEIGHT
⏏	KEY SWITCH
EX	DENOTES EXISTING DEVICE/EQUIPMENT TO REMAIN
ER	DENOTES EXISTING DEVICE/EQUIPMENT TO BE RELOCATED
RE	DENOTES RELOCATED OR NEW POSITION OF AN EXISTING DEVICE/EQUIPMENT TO BE RELOCATED
R	DENOTES EXISTING DEVICE/EQUIPMENT TO BE REMOVED C/W REDUNDANT WIRING AND RACEWAYS TO THE SOURCE
RP	DENOTES REPLACED DEVICE/EQUIPMENT. REWORK/EXTEND WIRING AS REQUIRED.
A-5	DENOTES DEVICE/EQUIPMENT CONNECTED TO PANEL 'A', CIRCUIT #5

GENERAL NOTES	
1.	IT IS RECOMMENDED FOR THE ELECTRICAL CONTRACTOR TO VISIT THE SITE AND REVIEW EXISTING CONDITIONS AND THE PROPOSED SCOPE OF WORK TO SUIT EXISTING CONDITIONS AND PROPOSED WORK IN ARCHITECTURAL DRAWINGS PRIOR TO PRICING.
2.	CAREFULLY EXAMINE EXISTING UTILITY LINES SUCH AS GAS, WATER ETC. PRIOR TO STARTING ELECTRICAL CONSTRUCTION. COORDINATE WITH OTHER TRADES AND REPORT OF ANY DISCREPANCIES PRIOR TO PROCEEDING.
3.	REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF ALL DEVICES AND EQUIPMENT AS WELL AS MOUNTING HEIGHTS.
4.	ALL RACEWAYS AND BACKBOXES SHALL BE CONCEALED IN NEW BLOCK WALLS. USE SURFACE MOUNTED RACEWAYS (WIREMOLD V500/V700 OR EQUAL) FOR EXISTING SOLID SURFACES. FOR LARGE SIZE RACEWAYS, PAINTED CONDUIT WITH DIE-CAST ALUMINUM BACKBOXES WILL BE CONSIDERED ACCEPTABLE.
5.	PROVIDE LABELS ON NEW & EXISTING SWITCHES, RECEPTACLES & JUNCTION BOXES COVERPLATES TO STATE PANEL NAME AND BREAKER NUMBER. UPDATE EXISTING PANEL SCHEDULES TO REFLECT THE NEW LOADS.
6.	THE CONTRACTOR MUST REVIEW THE "FINISHING HARDWARE SCHEDULE" THOROUGHLY PRIOR TO PRICING FOR ALL MATERIAL SUPPLY (BACKBOXES, WIRING, CONDUIT ETC.) AND INSTALLATION REQUIREMENTS ASSOCIATED WITH ALL EQUIPMENT. ENSURE TO INCLUDE IN THE TENDER PRICE FOR ALL MATERIAL AND LABOUR REQUIRED FOR COMPLETE INSTALLATION AS PER THE FINISHING HARDWARE SCHEDULE AND THESE DRAWINGS AND SPECIFICATIONS. PROVIDE FOR ALL POWER CONNECTIONS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM.
7.	PROVIDE NEW 15A-1P BREAKERS (UNLESS OTHERWISE STATED) FOR ALL NEW CIRCUITS PROPOSED ON THE DRAWINGS SUITABLE FOR THE RESPECTIVE PANEL.
8.	UPDATE PANEL DIRECTORIES IN ALL PANELS WHERE NEW CIRCUITS ARE ADDED.
9.	ALL WIRING SHALL BE INSTALLED IN RACEWAYS WITH SHORT RUNS OF BX CABLES FOR FINAL CONNECTION (MAX. 5'-0") OR WITHIN DEMOUNTABLE WALLS. ALL WIRING SHALL BE STAR WIRED FROM NEAREST HOMERUN CONDUIT AND JUNCTION BOXES. NO DAISY CHAIN FASHION OF WIRING WILL BE ACCEPTED.
10.	TEST OPERATION OF ALL RELOCATED AND NEW DEVICES, EQUIPMENT AND SYSTEMS PRIOR TO PROJECT COMPLETION.

DRAWING LIST	
E1	ELECTRICAL LEGEND, NOTES & KEY PLAN
E2	ELECTRICAL LAYOUTS

LIGHT FIXTURES SCHEDULE:	
'L1'	LITHONIA #LDN6 40/25 L06 AR LSS 347V (VERIFY ON SITE)-EZ10. VERIFY EXISTING SOURCE VOLTAGE. ORDER LIGHT FIXTURES TO SUIT. 2500 LUMENS, ENERGY STAR CERTIFIED.
'L2'	EMERGI-LITE #EFR9WH-LVC-EL-GRHROS. VERIFY EXISTING SOURCE VOLTAGE. ORDER LIGHT FIXTURES TO SUIT.

ELECTRICAL SPECIFICATIONS	
1.	OBTAIN ALL APPROVALS FROM PUBLIC AUTHORITIES HAVING JURISDICTION, BEFORE COMMENCING WORK AND PAY FOR ESA INSPECTION FEES AND OBTAIN APPROVAL.
2.	-
3.	EXAMINE ARCHITECTURAL, STRUCTURAL AND MECHANICAL DRAWINGS BEFORE PROCEEDING WITH THE WORK. ANY DISCREPANCIES BETWEEN DRAWINGS AND/OR SPECIFICATIONS MUST BE REFERRED TO THE ARCHITECT BEFORE ANY AFFECTED WORK IS COMMENCED.
4.	ALL CUTTING, PATCHING AND FIRE STOPPING REQUIRED FOR THE WORK OF THIS DIVISION SHALL BE CARRIED OUT BY THIS DIVISION. NO CHASING BLOCKWORK WILL BE ALLOWED. BE RESPONSIBLE AND PAY FOR ANY DAMAGE TO THE BUILDING INCURRED BY WORK OF THIS DIVISION.
5.	SUBMIT SHOP DRAWINGS FOR REVIEW AND RECORDS.
6.	ALL MATERIALS USED THROUGHOUT SHALL BE NEW, OF BEST QUALITY C.S.A. APPROVED AND OF ONE MANUFACTURE. WHEREVER TRADE NAMES ARE NOT USED TO DESCRIBE MATERIALS, THESE MATERIALS SHALL BE OF BEST AVAILABLE QUALITY AND MANUFACTURE. OBTAIN AND PAY FOR SPECIAL HYDRO INSPECTION OF SPECIFIED NON-C.S.A. ELECTRICAL EQUIPMENT.
7.	PROVIDE ALL CONDUIT, WIRING, BOXES, SWITCHES, OUTLETS, DEVICES, BRUSHED STAINLESS STEEL COVERPLATES ETC., AS REQUIRED. MAKE FINAL CONNECTIONS TO VIBRATING EQUIPMENT WITH FLEXIBLE CONDUIT.
8.	PROVIDE ALL HANGERS, INSERTS AND SUPPORTS OF APPROVED TYPES REQUIRED FOR THE WORK OF THIS DIVISION. PROVIDE CONDUIT FOR ALL SERVICES PENETRATING THE FLOOR SLAB. SEAL ALL PENETRATIONS THROUGH FLOOR SLABS WITH AN APPROVED NON-SHRINK, WATERPROOF AND FIREPROOF SEALANT APPROVED BY ARCHITECT.
9.	ALL CONDUIT SHALL BE RIGID STEEL THICK WALLED OR EMT THINWALL WITH STEEL SET SCREW COUPLINGS AND CONNECTORS WITH INSULATED THROATS UNLESS OTHERWISE NOTED. EXPOSED RACEWAYS IN FINISHED AREAS SHALL BE WIREMOLD CHANNELS INSTALLED NEAT IN APPEARANCE, RUN PARALLEL TO BUILDING LINES AND CONCENTRIC RIGHT ANGLE BENDS ONLY SHALL BE USED. EXTERIOR EXPOSED CONDUIT SHALL BE RIGID GALVANIZED STEEL.
10.	ALL WIRING SHALL BE MINIMUM #12 GAUGE COPPER, EXCEPT AS OTHERWISE NOTED. ALL WIRING SHALL BE 600 VOLT TYPE RW90. BX CABLE MAY BE USED WHERE PERMITTED BY CODE IN CEILING SPACE FOR FINAL CONNECTION TO LIGHT FIXTURE AND FROM CEILING DISTRIBUTION BOXES DOWN PARTITIONS TO RECEPTACLES ONLY. MINIMUM SIZE WIRING FOR DC WIRING SHALL BE #10 GAUGE. MAXIMUM VOLTAGE DROP SHALL NOT EXCEED 2 PERCENT.
11.	LUMINAIRES AND LAMPS PROVIDE LUMINAIRES WITH LED LAMPS AS INDICATED ON THE DRAWINGS. THESE MUST AND SHALL BE COMPLETE WITH ALL NECESSARY FRAMES, MOUNTING PLATES, HANGERS, LAMPS, DIFFUSERS, CANOPIES, SUPPORTS, ETC. UNLESS OTHERWISE NOTED, LAMPS SHALL BE 4000K 80 CRI MINIMUM 50,000 HOURS. COORDINATE MOUNTING AND LOCATION OF LUMINAIRES WITH OTHER TRADES TO AVOID CONFLICTS. ALL LUMINAIRES WHICH ARE LOCATED IN SUSPENDED CEILINGS SHALL BE SUPPORTED BY APPROVED CHAINS, WHICH SHALL ALLOW THE LUMINAIRES TO BE SUPPORTED INDEPENDENT OF THE CEILING SYSTEM. A 1'X4' FLUORESCENT LUMINAIRE SHALL BE SUPPORTED WITH TWO (2) CHAINS AND A 2'X4' LUMINAIRE SHALL BE SUPPORTED WITH FOUR (4) CHAINS TO THE ROOF STRUCTURE OR SLAB ABOVE. ANCHOR CHAINS TO JOIST AND BRIDGING WHERE POSSIBLE. WHEN CONNECTING TO STEEL DECK, ANCHOR TO SIDE FLUTES.
12.	PROVIDE GROUND WIRES WITH ALL FEEDERS AND CIRCUITS IN ACCORDANCE WITH APPLICABLE CODES AND HYDRO REQUIREMENTS. PROVIDE MAIN GROUND TO HYDRO APPROVAL.
13.	CO-ORDINATE WITH OTHER TRADES IN LAYING OUT OF THE WORK SO AS NOT TO CONFLICT WITH THE WORK OF OTHER TRADES. CARRY OUT WORK PROMPTLY WHICH MAY INTERFERE WITH THE WORK SCHEDULE OF OTHER TRADES.
14.	MECHANICAL TRADES WIRING: PROVIDE ALL CONDUIT, WIRING, SPLITTERS, OUTLET BOXES AND DISCONNECT SWITCHES AS SHOWN. ALL MOTORS, STARTERS AND CONTROL WIRING PROVIDED UNDER DIVISION 15. INSTALL ALL STARTERS AND WIRE COMPLETE.
15.	AFTER COMPLETION OF THE WORK, PROVIDE THE CONSULTANT TO REVIEW A SET OF REPRODUCIBLE 'AS-BUILT' RECORD DRAWINGS PRIOR TO SUBMISSION TO OWNER. INCORPORATE ALL CHANGES ON AUTOCAD R2010.
16.	ALTERATIONS AND ADDITIONS: CONTRACTORS SHALL NOTE THAT THIS CONTRACT IS AN ALTERATION TO AN EXISTING BUILDING AND SHALL THOROUGHLY INVESTIGATE THE EXISTING ELECTRICAL INSTALLATION AND CONDITIONS.
17.	DEMOLITION REMOVE ALL EXPOSED CONDUITS, BRANCH WIRING, OUTLETS, LUMINAIRES, EMERGENCY LIGHTING ETC. FROM CEILINGS AND WALLS BEING DEMOLISHED. REMOVE WIRING TO PANELBOARDS.
18.	PROVIDE MIN. OF 1 YEAR WARRANTY FOR THE SCOPE OF WORK.
19.	ALL WORK SHALL BE DONE WITH MINIMUM POSSIBLE INTERRUPTION TO EXISTING BUILDING SYSTEMS AND IN THE TIME SCHEDULE PERMITTED BY THE SCHOOL BOARD. CONSULT WITH PROJECT MANAGER PRIOR TO PRICING.



1 GROUND FLOOR - KEY PLAN
E1 SCALE: 1 : 1000

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1.	ISSUED FOR REVIEW
2.	ISSUED FOR PERM/TENDER

DATE	
no.	date
1.	2025.01.03
2.	2025.02.18

project
HWSD WATERDOWN DHS RENOVATION

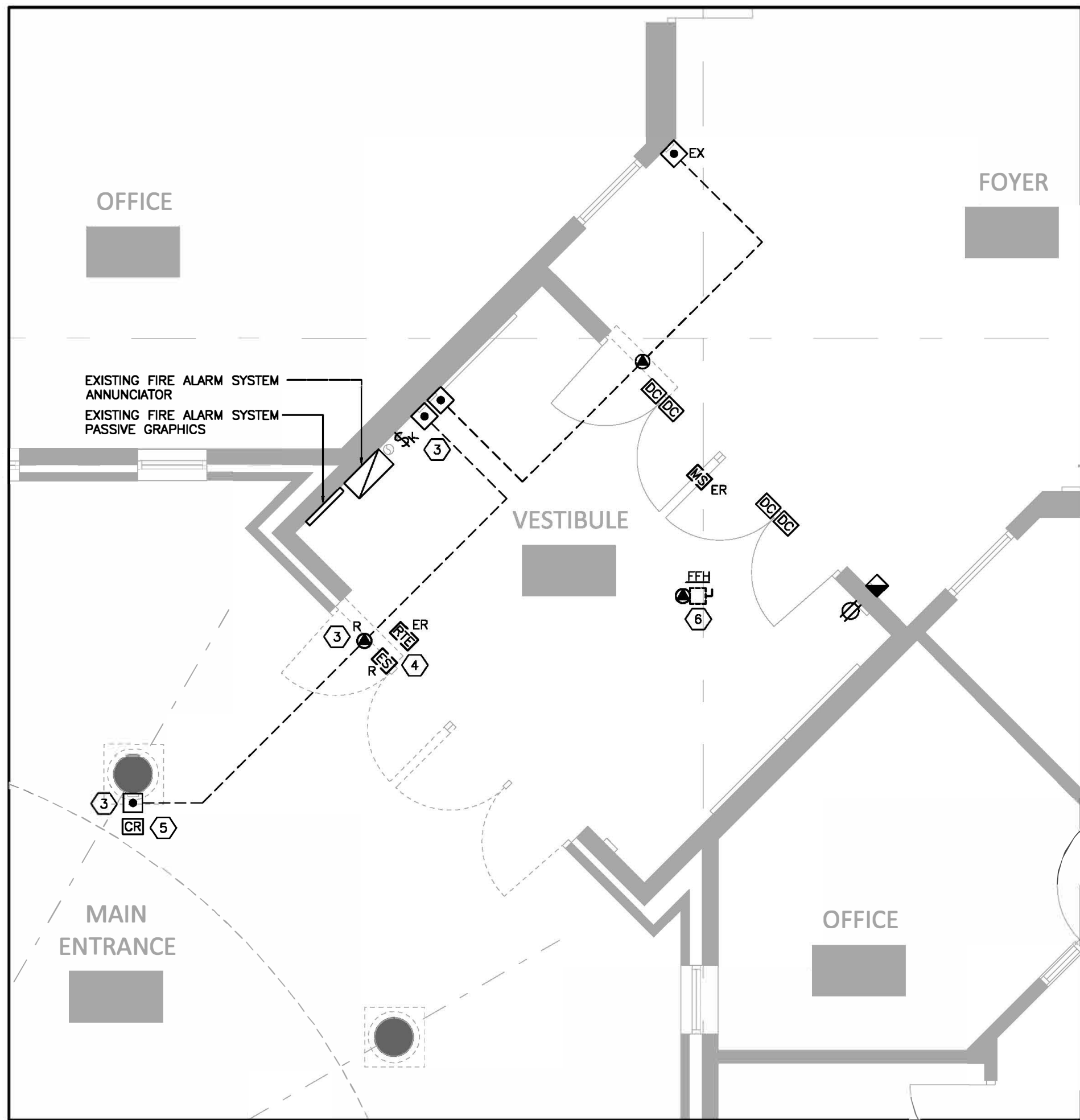
215 Parkside Dr, Waterdown, ON L6B 1B9

drawing
ELECTRICAL LEGEND & KEY PLANS

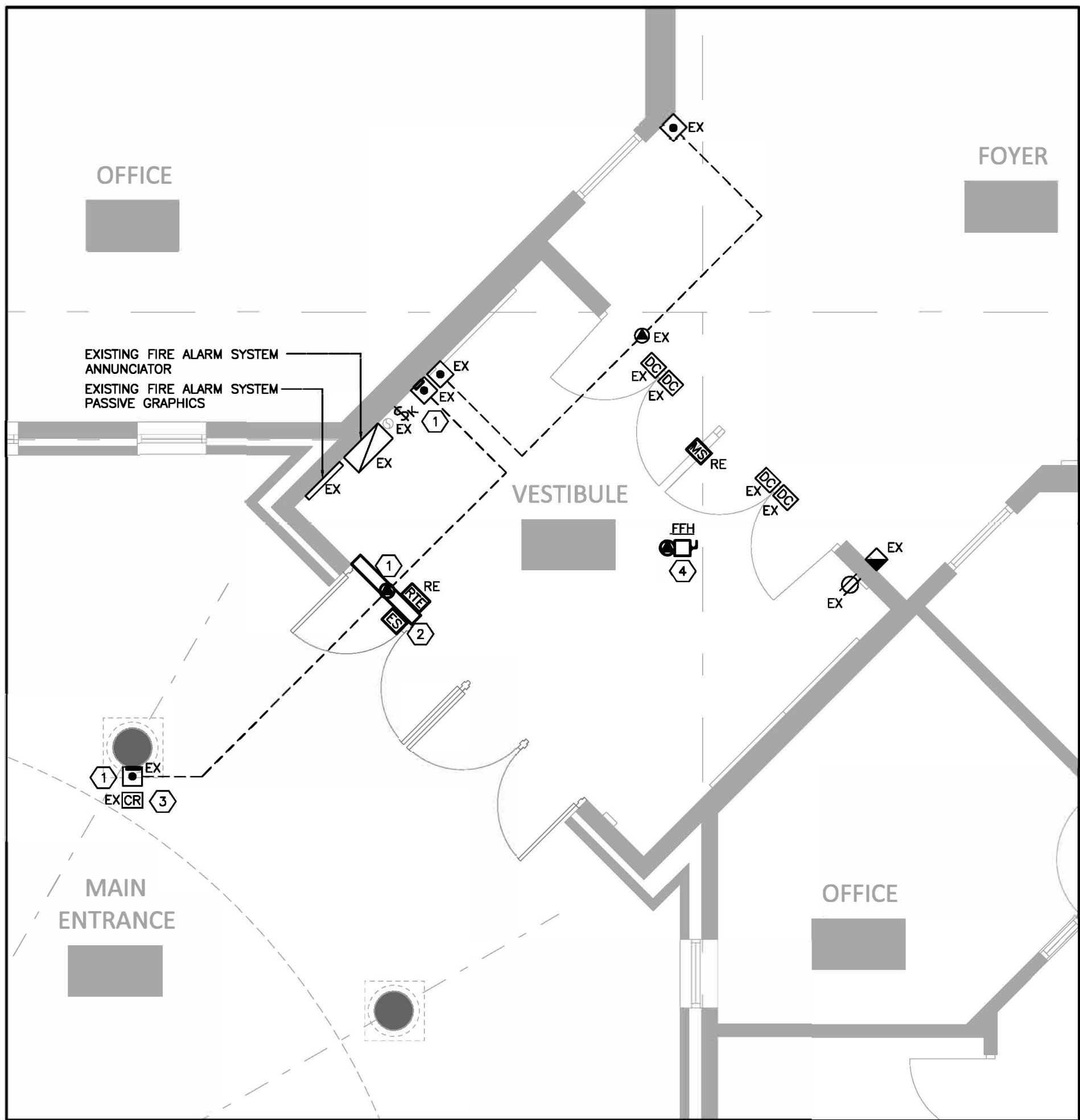
drawing scale

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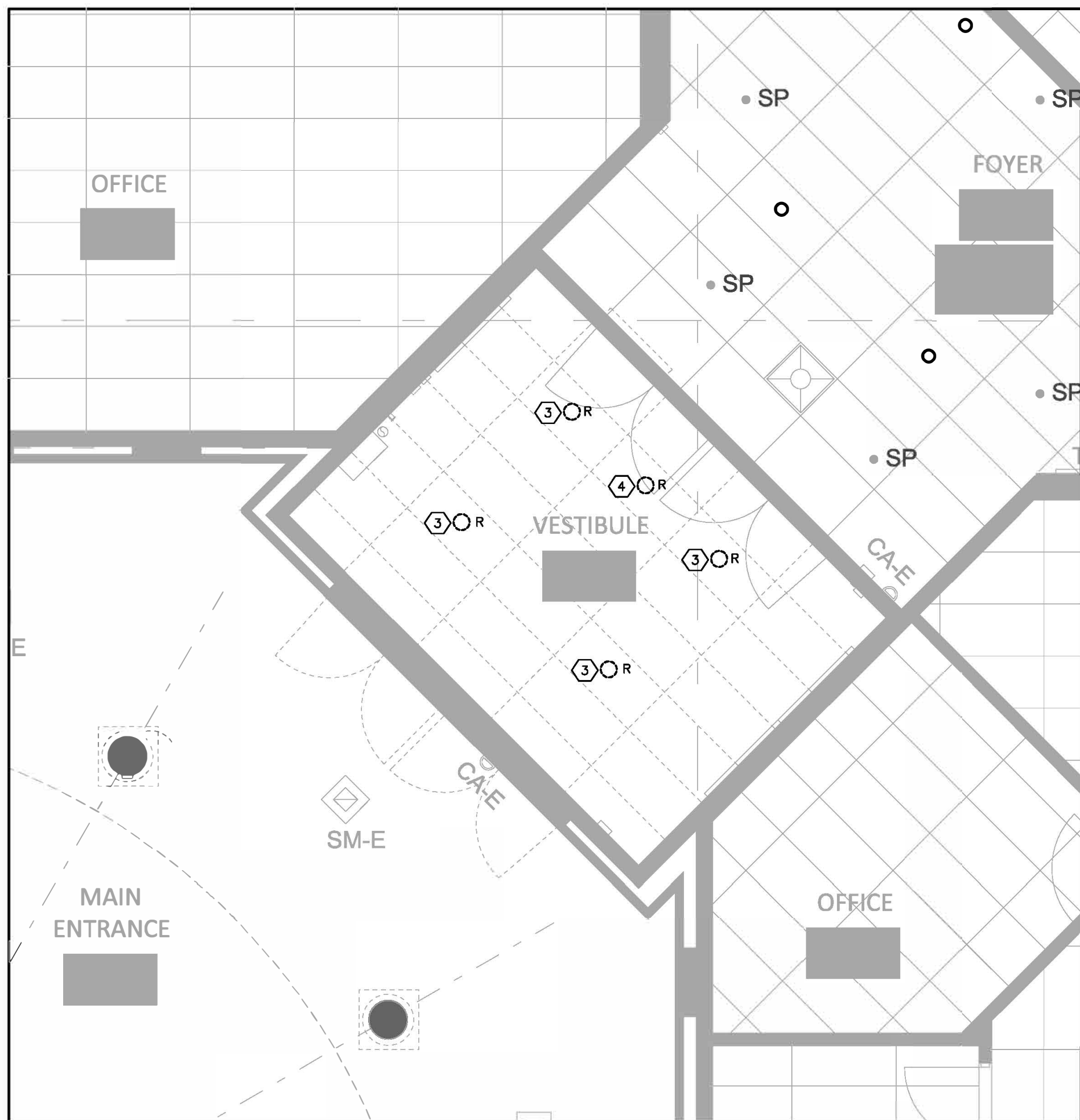
1 PART GROUND FLOOR - POWER & SYSTEMS EXISTING/DEMOLITION LAYOUT
E2 SCALE: 1 : 50



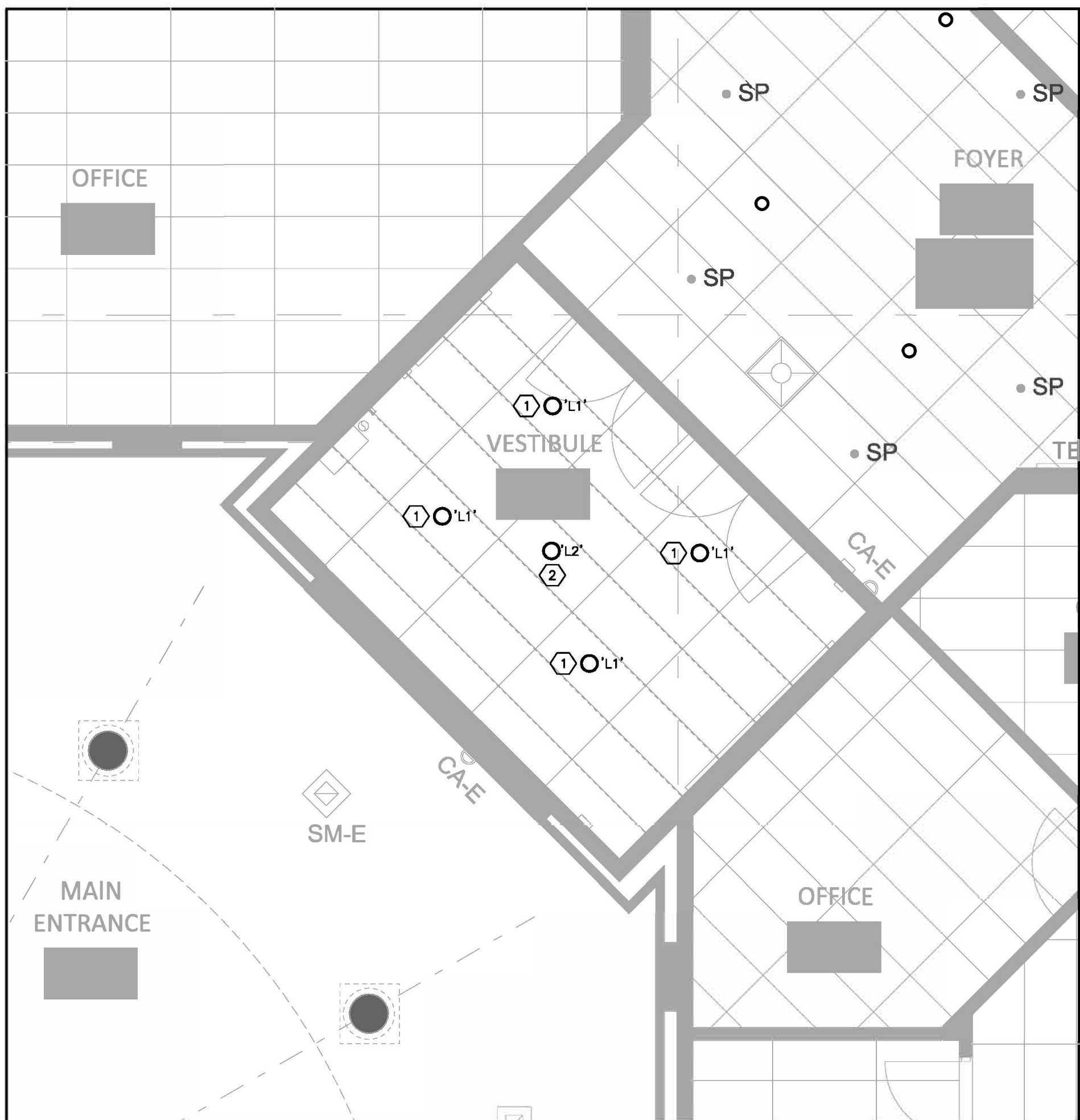
2 PART GROUND FLOOR - POWER & SYSTEMS NEW WORK LAYOUT
E2 SCALE: 1 : 50

- EXISTING/DEMOLITION WORK LAYOUT NOTES:**
1. IT IS RECOMMENDED FOR THE CONTRACTOR TO VISIT SITE TO REVIEW EXISTING SITE CONDITIONS.
 2. AT THE ONSET OF PROJECT, TRACE AND INVESTIGATE EXISTING POWER SOURCES AND LOADS SERVING THE AREA OF WORK.
 3. DISCONNECT AND REMOVE POWER CONNECTION TO EXISTING TO BE REMOVED DOOR OPERATOR C/W ASSOCIATED CONDUITS AND WIRING TO FACILITATE DOOR REMOVAL. UPON DOOR REPLACEMENT WORK COMPLETION, PROVIDE NEW CONDUITS, AND WIRING, CONNECT NEW DOOR OPERATOR AND RECONNECT EXISTING PUSH BUTTONS FOR FULLY OPERATIONAL DEVICES.
 4. DISCONNECT AND REMOVE POWER CONNECTION TO EXISTING TO BE REMOVED ELECTRIC STRIKE, DOOR CONTACT AND REQUEST TO EXIT MOTION DETECTOR C/W ASSOCIATED CONDUITS AND WIRING TO FACILITATE DOOR REMOVAL. UPON DOOR REPLACEMENT WORK COMPLETION, PROVIDE CONNECTION TO NEW ELECTRIC STRIKE AND DOOR CONTACTS C/W CONDUITS AND WIRING. REINSTALL REQUEST TO EXIT MOTION DETECTOR.
 5. DISCONNECT EXISTING CARD READER TO FACILITATE DOOR REMOVAL. UPON DOOR REPLACEMENT WORK COMPLETION, RECONNECT AND VERIFY OPERATION.
 6. DISCONNECT POWER CONNECTION TO EXISTING TO BE REPLACED FORCE FLOW HEATER IN THE CEILING SPACE. REWORK CONDUITS AND WIRING AS REQUIRED FOR DEMOLITION AND NEW WORK.
 7. ALL EXISTING TO REMAIN DEVICES ADJACENT TO THE AREAS OF WORK SHALL BE PROTECTED AND KEPT OPERATIONAL.
 8. FOR AFFECTED DEVICES, CONDUITS AND WIRING SHALL BE REMOVED TO SOURCE AND/OR OUTSIDE THE AREA OF WORK AS APPLICABLE.

- POWER & SYSTEMS NEW WORK LAYOUT NOTES:**
1. UPON DOOR REPLACEMENT WORK, PROVIDE POWER CONNECTION TO NEW DOOR OPERATOR C/W NEW RACEWAYS, BACKBOXES, AND WIRING AND RECONNECT EXISTING PUSH BUTTONS FOR FULLY OPERATIONAL DEVICES.
 2. PROVIDE POWER CONNECTION TO ELECTRIC STRIKE AND DOOR CONTACT C/W ASSOCIATED RACEWAYS AND WIRING. REINSTALL REQUEST TO EXIT MOTION DETECTOR. VERIFY DEVICES OPERATION.
 3. RECONNECT AND ACTIVATE EXISTING CARD READER UPON DOOR INSTALLATION. REMOVAL. UPON DOOR REPLACEMENT WORK COMPLETION, RECONNECT AND VERIFY OPERATION.
 4. PROVIDE POWER CONNECTION C/W LOCAL DISCONNECT SWITCH TO EXISTING TO BE REPLACED FORCE FLOW HEATER IN THE CEILING SPACE. REWORK CONDUITS AND WIRING AS REQUIRED FOR NEW WORK.
 5. ALL EXISTING TO REMAIN DEVICES ADJACENT TO THE AREAS OF WORK SHALL BE PROTECTED AND KEPT OPERATIONAL.



3 PART GROUND FLOOR - LIGHTING EXISTING/DEMOLITION LAYOUT
E2 SCALE: 1 : 50



2 PART GROUND FLOOR - LIGHTING NEW WORK LAYOUT
E2 SCALE: 1 : 50

- EXISTING/DEMOLITION LIGHTING WORK LAYOUT NOTES:**
1. VISIT SITE TO VERIFY SCOPE OF WORK.
 2. TRACE AND INVESTIGATE EXISTING POWER SOURCES AND LOADS SERVING THE AREA OF WORK.
 3. DISCONNECT AND REMOVE EXISTING NORMAL POWERED POT LIGHT FIXTURES C/W ASSOCIATED CONDUITS AND WIRING TO FACILITATE CEILING REMOVAL. REWORK CONDUITS AND WIRING FOR NEW LIGHT FIXTURES INSTALLATION AND CONNECTIONS.
 4. DISCONNECT AND REMOVE EXISTING EMERGENCY POWERED POT LIGHT FIXTURE C/W ASSOCIATED CONDUITS AND WIRING TO FACILITATE CEILING REMOVAL. REWORK CONDUITS AND WIRING FOR NEW LIGHT FIXTURE INSTALLATION AND CONNECTIONS.
 5. ALL EXISTING TO REMAIN DEVICES ADJACENT TO THE AREAS OF WORK SHALL BE PROTECTED AND KEPT OPERATIONAL.
 6. FOR AFFECTED DEVICES, CONDUITS AND WIRING SHALL BE REMOVED TO SOURCE AND/OR OUTSIDE THE AREA OF WORK AS APPLICABLE.

- LIGHTING NEW WORK LAYOUT NOTES:**
1. PROVIDE NEW POT LIGHT FIXTURES TYPE "L1". CONNECT TO EXISTING CONTROLLED NORMAL POWERED BRANCH CIRCUIT C/W ASSOCIATED CONDUITS AND WIRING TO POWER SOURCE. REWORK CONDUITS AND WIRING FOR NEW LIGHT FIXTURES INSTALLATION AND CONNECTIONS.
 2. PROVIDE NEW EMERGENCY POWERED POT LIGHT FIXTURE C/W ASSOCIATED CONDUITS AND WIRING TO POWER SOURCE. REWORK CONDUITS AND WIRING FOR NEW LIGHT FIXTURE INSTALLATION AND CONNECTION.
 3. ALL EXISTING TO REMAIN DEVICES ADJACENT TO THE AREAS OF WORK SHALL BE PROTECTED AND KEPT OPERATIONAL.
 4. FOR AFFECTED DEVICES, CONDUITS AND WIRING SHALL BE REMOVED TO SOURCE AND/OR OUTSIDE THE AREA OF WORK AS APPLICABLE.

MECHANICAL & ELECTRICAL CONSULTANT:

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ELECTRICAL
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COMMUNICATION
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NOTE: THIS DRAWING IS NOT TO BE SCALED. THE CONTRACTOR IS RESPONSIBLE FOR THE VERIFICATION OF ALL SITE DIMENSIONS AND FOR NOTIFYING THE ARCHITECT OF ANY SITE CONDITIONS AND SITE MEASUREMENTS THAT ARE NOT CONSISTENT WITH THE DRAWINGS.

no.	revision	date
1.	ISSUED FOR REVIEW	2025.01.03
2.	ISSUED FOR PERMIT/TENDER	2025.02.18

no.	issue	date
1.	ISSUED FOR REVIEW	2025.01.03
2.	ISSUED FOR PERMIT/TENDER	2025.02.18

project
HWDSB WATERDOWN DHS RENOVATION

215 Parkside Dr, Waterdown, ON L8B 1B9

drawing
ELECTRICAL LAYOUTS

drawing scale
AS NOTED

drawing no.

E2