

ASSUMPTION CATHOLIC
SECONDARY SCHOOL
GN. WR. RENOVATION

DRAWING LIST

ARCHITECTURAL DRAWINGS

- A01 SITE PLAN
- A02 FIRE SEPARATION KEY PLANS, OBC MATRIX, SCHEDULES & NOTES
- A03 PARTIAL SECOND FLOOR DEMOLITION & PROPOSED FLOOR AND FLOOR FINISH PLANS
- A04 PARTIAL SECOND FLOOR DEMOLITION & PROPOSED REFLECTED CEILING PLANS
- A05 PARTIAL THIRD FLOOR DEMOLITION & PROPOSED FLOOR, RCP AND FLOOR FINISH PLANS
- A06 INTERIOR ELEVATIONS AND SCHEDULES

STRUCTURAL DRAWINGS

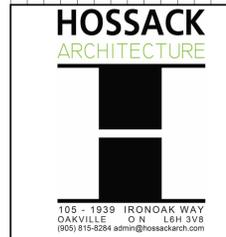
- S1.0 PLANS, SECTIONS & DETAILS

MECHANICAL DRAWINGS

- M1.0 LEGENDS, GENERAL NOTES, EQUIPMENT SCHEDULE
- M1.1 KEY PLANS
- M2.0 DEMOLITION PLUMBING AND DRAINAGE LAYOUT
- M2.1 - PARTIAL GROUND FLOOR REFLECTED CEILING PLAN
- M2.2 DEMOLITION SPRINKLERS LAYOUT
- M3.0 DEMOLITION PLUMBING AND DRAINAGE LAYOUT
- M3.1 - PARTIAL SECOND FLOOR PLAN
- M3.2 DEMOLITION SPRINKLERS LAYOUT
- M3.3 - PARTIAL SECOND FLOOR PLAN
- M3.4 DEMOLITION PLUMBING AND DRAINAGE LAYOUT
- M4.0 DEMOLITION PLUMBING AND DRAINAGE LAYOUT
- M4.1 - PARTIAL THIRD FLOOR PLAN
- M4.2 DEMOLITION SPRINKLERS LAYOUT
- M5.0 PROPOSED PLUMBING AND DRAINAGE LAYOUT
- M5.1 - PARTIAL GROUND FLOOR REFLECTED CEILING PLAN
- M5.2 PROPOSED SPRINKLER LAYOUT
- M5.3 - PARTIAL GROUND FLOOR REFLECTED CEILING PLAN
- M5.4 PROPOSED SPRINKLER LAYOUT
- M6.0 PROPOSED PLUMBING AND DRAINAGE LAYOUT
- M6.1 - PARTIAL SECOND FLOOR PLAN
- M6.2 PROPOSED SPRINKLER LAYOUT
- M7.0 PROPOSED PLUMBING AND DRAINAGE LAYOUT
- M7.1 - PARTIAL THIRD FLOOR PLAN
- M7.2 PROPOSED SPRINKLER LAYOUT
- M8.0 MECHANICAL DETAILS
- M9.0 MECHANICAL SPECIFICATIONS - 1
- M9.1 MECHANICAL SPECIFICATIONS - 2

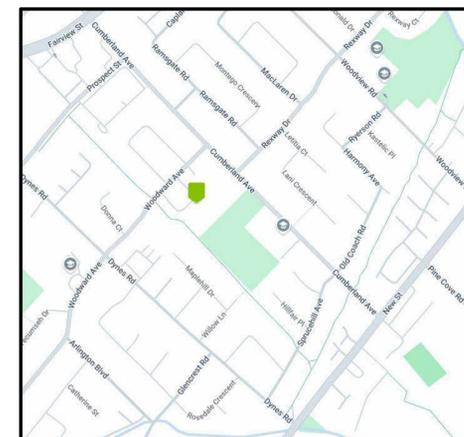
ELECTRICAL DRAWINGS

- E1.0 ELECTRICAL LEAD SHEET, DETAILS, KEY PLAN & PANEL SCHEDULE
- E2.0 DEMOLITION GROUND & SECOND FLOOR LIGHTING PLAN
- E2.1 DEMOLITION SECOND FLOOR POWER AND LIGHTING PLAN
- E2.2 DEMOLITION THIRD FLOOR POWER AND LIGHTING PLAN
- E3.0 PROPOSED GROUND & SECOND FLOOR POWER PLAN
- E3.1 PROPOSED SECOND FLOOR POWER AND LIGHTING PLAN
- E3.2 PROPOSED THIRD FLOOR POWER AND LIGHTING PLAN
- E4.0 ELECTRICAL SPECIFICATIONS



ASSUMPTION CATHOLIC SECONDARY SCHOOL
WASHROOM RENOVATION

3230 WOODWARD AVENUE,
BURLINGTON, ON L7N 3P1
MARCH 2025

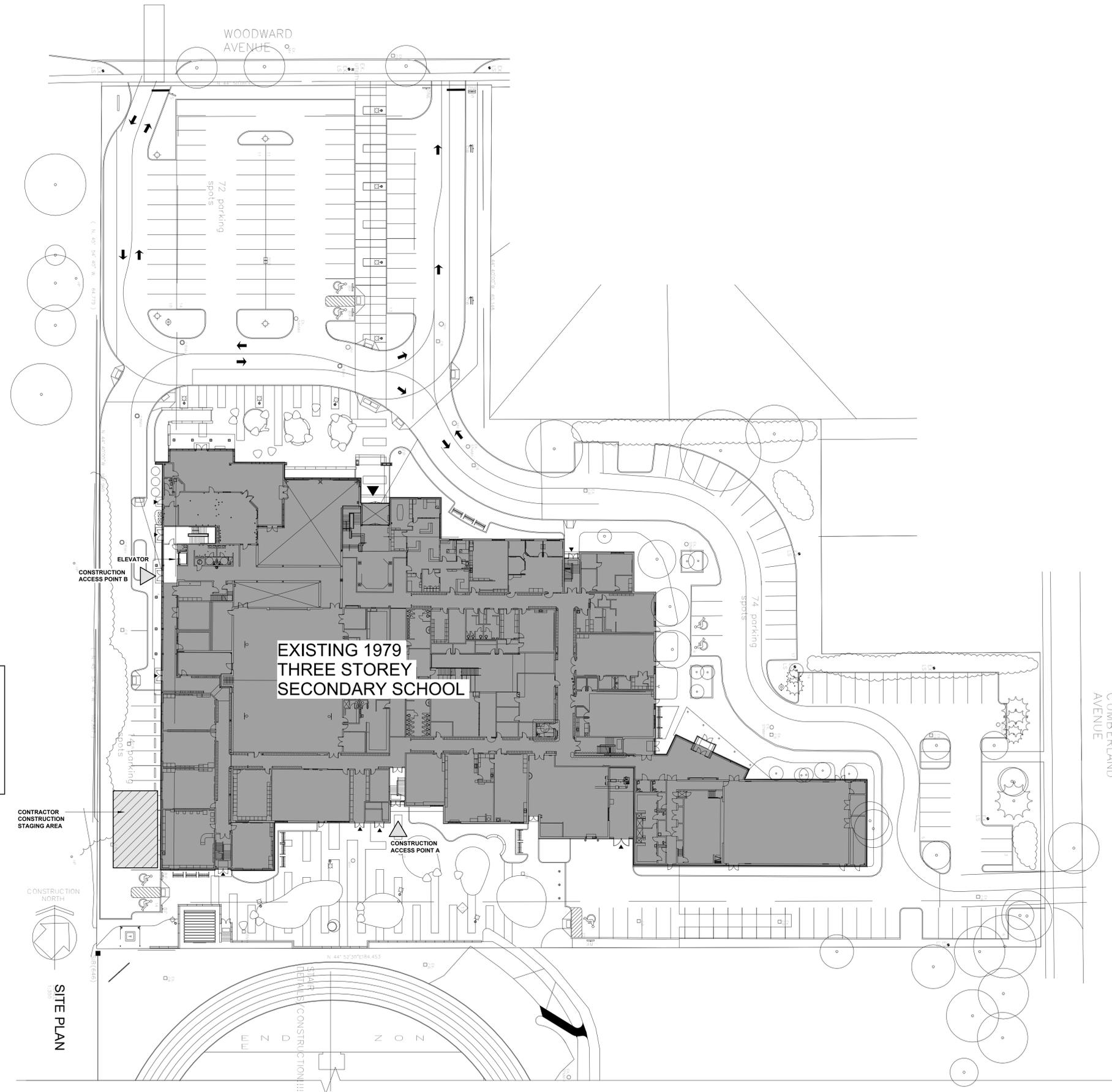


KEY MAP

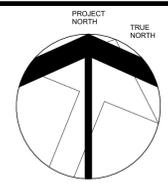
SET No.

PROJECT NUMBER

24116



GENERAL NOTE:
 CONTRACTOR TO MINIMIZE SCHOOL ACCESS TO ENTRY POINTS AS OUTLINED HERE IN. GC TO ENSURE PROPER CLOSURE AND SECURITY OF ACCESS POINTS TO LIMIT UNWANTED ACCESS TO THE SCHOOL AND CONSTRUCTION SITE.
 CONTRACTOR CONSTRUCTION STAGING AREA IS AVAILABLE FOR STORAGE OF TRAILER, WASTE MATERIALS AND NEW CONSTRUCTION MATERIALS AS NEEDED. GC TO SECURE AREA AS REQUIRED.
 AREA OF STAGING TO BE THOROUGHLY CLEANED FOLLOWING THE CONSTRUCTION PROJECT TO OWNER SATISFACTION OF ALL CONSTRUCTION DUST, DEBRIS AND MATERIALS AS OUTLINED IN SPECIFICATION.



NO.	ISSUED FOR TENDER	03 17 25
	ISSUED	DATE

DRAWINGS ARE NOT TO BE SCALED. CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS ON THE PROJECT, AND MUST REPORT ANY DISCREPANCIES TO THE CONSULTANTS BEFORE PROCEEDING WITH THE WORK. THE USE OF THIS DRAWING OR PART THEREOF IS FORBIDDEN WITHOUT THE WRITTEN APPROVAL OF THE CONSULTANTS.



ASSUMPTION CATHOLIC SECONDARY SCHOOL GN. WR. RENOVATION

3230 WOODWARD AVENUE, BURLINGTON, ON L7N 3P1
 LEGAL DESCRIPTION
 REGISTERED PLAN 291, LOT 11, PART OF LOT 13 CITY OF BURLINGTON



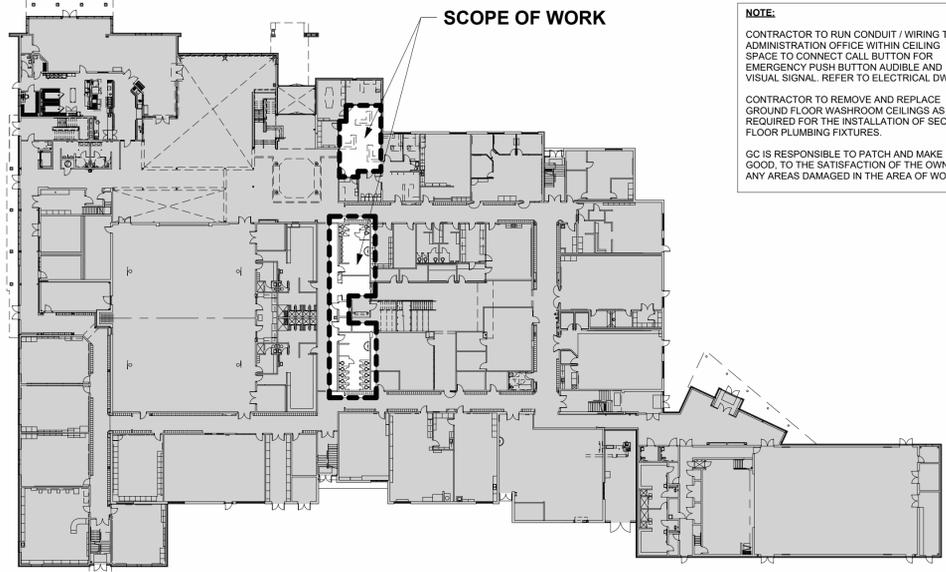
802 DURURY LANE, (905) 632-6300
 BURLINGTON ON L7R 2Y2 AbrahamsC@hcdsb.org

SITE PLAN



105 - 1039 IRONDAK WAY OAKVILLE, ON L6H 3V8 (905) 875-0224 admin@hossackarch.com

SCALE	1 : 400	PROJECT	24116
DATE	MARCH 2025		
DRAWN	AM	DRAWING	
CHECKED	PL		A01
PRINT DATE	3/17/2025 2:02:12 PM		
REVIT FILE	T:\2024\24116\02\Revit\RV1		



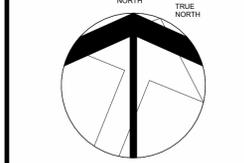
1 GROUND FLOOR KEY PLAN
SCALE: 1:500

NOTE:
CONTRACTOR TO RUN CONDUIT / WIRING TO ADMINISTRATION OFFICE WITHIN CEILING SPACE TO CONNECT CALL BUTTON FOR EMERGENCY PUSH BUTTON AUDIBLE AND VISUAL SIGNAL. REFER TO ELECTRICAL DWGS.
CONTRACTOR TO REMOVE AND REPLACE GROUND FLOOR WASHROOM CEILING AS REQUIRED FOR THE INSTALLATION OF SECOND FLOOR PLUMBING FIXTURES.
GC IS RESPONSIBLE TO PATCH AND MAKE GOOD, TO THE SATISFACTION OF THE OWNER, ANY AREAS DAMAGED IN THE AREA OF WORK.

LEGEND
EXISTING TO REMAIN
PROPOSED AREA OF WORK
0 HR FIRE SEPARATION
30 MIN FRR
1 HR FRR
INTERIOR TEMPORARY HOARDING:
- 38 X89 WOOD FRAMING
- 8mm WHITE POLY VAPOUR BARRIER SEALED FROM FLOOR TO LIS OF CEILING.
- 12mm PLYWOOD SHEATHING

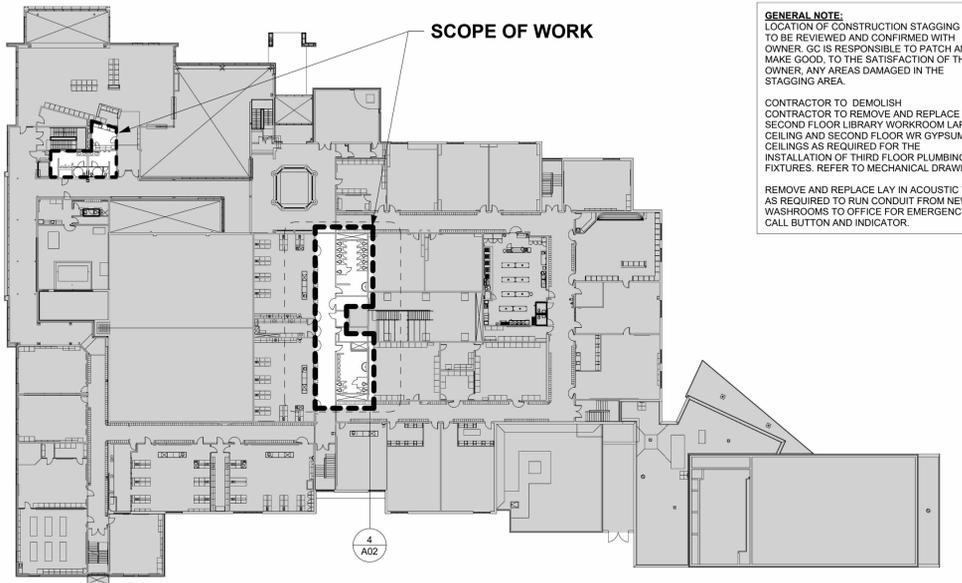
SYMBOLS AND REFERENCE BUBBLE LEGEND
DXXX DETAIL REFERENCE - SEE DETAIL BOOK
X AXX DETAIL No.
X AXX DRAWING WHERE DETAIL IS SHOWN
X AXX ELEVATION No.
X AXX DRAWING WHERE ELEVATIONS IS SHOWN
X AXX BUILDING SECTION No.
X AXX DRAWING WHERE SECTION IS SHOWN
X AXX WALL SECTION No.
X AXX DRAWING WHERE WALL SECTION IS SHOWN
XXXX ELEVATION DATUM
Sxx SCREEN TYPE - SEE SECTION D800 IN DETAIL BOOK
Wxx WINDOW TYPE - SEE SECTION 801 IN DETAIL BOOK
XXX WALL TYPE
XXXX ROOM No. - SEE SPECS FOR ROOM FINISH SCHEDULE
XXX X DOOR No. - SEE SPECS FOR DOOR AND HARDWARE SCHEDULE

ONTARIO BUILDING CODE DATA MATRIX PART 11 - RENOVATION OF EXISTING BUILDING		OBC REFERENCE
11.00	BUILDING CODE VERSION LAST AMENDMENT	
11.01	PROJECT TYPE: ADDITION <input type="checkbox"/> RENOVATION <input checked="" type="checkbox"/> ADDITION AND RENOVATION <input type="checkbox"/> CHANGE OF USE <input type="checkbox"/> DESCRIPTION: INTERIOR WASHROOM RENOVATION	[A] 1.1.2
11.02	MAJOR OCCUPANCY CLASSIFICATION: OCCUPANCY USE A2 SECONDARY SCHOOL	3.1.2.1(1) and 11.2.1
11.03	SUPERIMPOSED MAJOR OCCUPANCY: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO DESCRIPTION	11.2 and 3.2.2.5 to 3.2.2.8
11.04	BUILDING AREA (m ²): EXISTING SCHOOL EXISTING NEW TOTAL 8,449 0 8,449	[A] 1.4.1.2, 11.2, and 11.3
11.05	BUILDING HEIGHT: STOREYS ABOVE GRADE 11.8 (m) ABOVE GRADE STOREYS BELOW GRADE 0	[A] 1.4.1.2 and 3.2.1.1, and 11.3
11.06	NUMBER OF STREETS / FIREFIGHTER ACCESS 0 STREETS(S)	3.2.2.10, 3.2.5, and 11.3
11.07	BUILDING SIZE: <input type="checkbox"/> SMALL <input type="checkbox"/> MEDIUM <input checked="" type="checkbox"/> LARGE <input type="checkbox"/> > LARGE	T.11.2.1.1-B-N, 11.2.1.1, and 11.3
11.08	EXISTING BUILDING CLASSIFICATION: CHANGE IN MAJOR OCCUPANCY: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO CHANGE CONSTRUCTION INDEX: - HAZARD INDEX: - IMPORTANCE CATEGORY: <input type="checkbox"/> LOW <input type="checkbox"/> NORMAL <input type="checkbox"/> HIGH <input type="checkbox"/> POST-DISASTER	11.2.1.1, 11.2.1.1.A, 11.2.1.1.B to N, 4.2.1.(3), and 5.2.2.1.(2)
11.09	RENOVATION TYPE: <input checked="" type="checkbox"/> BASIC RENOVATION <input type="checkbox"/> EXTENSIVE RENOVATION	11.3.3.1 or 11.3.3.2
11.10	OCCUPANT LOAD: FLOOR AREA OCCUPANCY BASED ON TYPE OCCUPANT LOAD (PERSONS) GROUND FLOOR A2 2984 SECOND FLOOR A2 EXISTING 1087 THIRD FLOOR A2 270 TOTAL = 4341	3.1.17, 11.4.2.2
11.11a	PLUMBING FIXTURE REQUIREMENTS RATIO: FLOOR AREA OCCUPANT OBC WCs WCs LOAD REFERENCE Required Provided GROUND FLOOR - - - - - SECOND FLOOR - - - - - THIRD FLOOR - - - - -	3.7.4, 11.3.4, 11.3.5, 11.4.2.4, and 11.4.2.5
11.11b	PLUMBING FIXTURE REQUIREMENTS continued: FLOOR AREA BARRIER-FREE WCs BARRIER-FREE WCs UTR UTR (repeated) Required Provided Required Provided GROUND FLOOR 6 8 1 1 SECOND FLOOR 4 4 0 0 THIRD FLOOR 2 3 0 0	Tables 3.8.2.3.A and 3.8.2.3.B
11.12	BARRIER-FREE DESIGN BARRIER-FREE ENTRANCES <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO EXISTING	11.3.3.2.(2)
11.13	REDUCTION IN PERFORMANCE LEVEL BY INCREASE IN OCCUPANT LOAD: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES BY CHANGE OF MAJOR OCCUPANCY: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES PLUMBING: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES SEWAGE-SYSTEM: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES EXTENSION OF BUILDINGS OF COMBUSTIBLE CONSTRUCTION: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES	11.4.2.1, 11.4.2.2, 11.4.2.3, 11.4.2.4, 11.4.2.5, 11.4.2.6
11.14	COMPENSATING CONSTRUCTION: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES STRUCTURAL: <input type="checkbox"/> NO <input type="checkbox"/> YES BY INCREASE IN OCCUPANT LOAD: <input type="checkbox"/> NO <input type="checkbox"/> YES BY CHANGE OF MAJOR OCCUPANCY: <input type="checkbox"/> NO <input type="checkbox"/> YES PLUMBING: <input type="checkbox"/> NO <input type="checkbox"/> YES SEWAGE-SYSTEM: <input type="checkbox"/> NO <input type="checkbox"/> YES EXTENSION OF BUILDINGS OF COMBUSTIBLE CONSTRUCTION: <input type="checkbox"/> NO <input type="checkbox"/> YES	11.4.3.1, 11.4.3.2, 11.4.3.3, 11.4.3.4, 11.4.3.5, 11.4.3.6, 11.4.3.7
11.15	COMPLIANCE ALTERNATIVES PROPOSED: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES (list numbers and describe)	11.5.1
11.16	NOTES: IS AN ALTERNATIVE SOLUTION USED? <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES	11.5.1



ABBREVIATION LEGEND

AF	ABOVE FINISH FLOOR
BF	BARRIER FREE
BFP	BARRIER FREE PUSH BUTTON
BFP-L	BARRIER FREE PUSH BUTTON-LOCK
BH	BREAK-AWAY HOOK
CONC.	CONCRETE
CONT.	CONTINUOUS
CS	CONVENIENCE SHELF
CJ	CONTROL JOINT
CWT	CERAMIC WALL TILE
CW	COMPLETE WITH
DN	DOWN
EMP	EMERGENCY PUSH BUTTON
EX	EXISTING
EXT.	EXTERIOR
FD	FLOOR DRAIN
GB	GRAB BAR
GBL	GRAB BAR L SHAPE
GN	GENDER NEUTRAL
GYP.	GYPNUM BOARD
HID	HAND DRYER
HORIZ.	HORIZONTAL
LAP	LAY IN ACOUSTIC PANEL
LF	LIGHT FIXTURE
NIC	NOT IN CONTRACT
PREFIN	PREFINISHED
POR	PORCELAIN
RM	ROOM
SD	SOAP DISPENSER
SN	NAPKIN DISPOSAL
SND	SANITARY NAPKIN DISPENSER
TM	TILT MIRROR
TD	TOILET PAPER DISPENSER
TYP.	TYPICAL
WR	WASHROOM



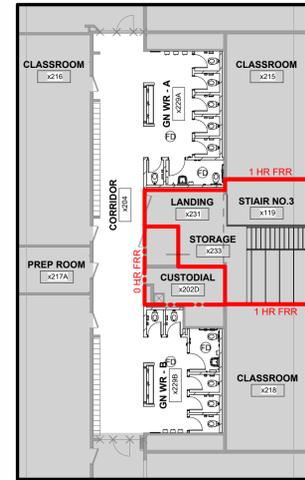
2 SECOND FLOOR KEY PLAN
SCALE: 1:500

GENERAL NOTE:
LOCATION OF CONSTRUCTION STAGGING AREA TO BE REVIEWED AND CONFIRMED WITH OWNER. GC IS RESPONSIBLE TO PATCH AND MAKE GOOD, TO THE SATISFACTION OF THE OWNER, ANY AREAS DAMAGED IN THE STAGGING AREA.
CONTRACTOR TO DEMOLISH SECOND FLOOR LIBRARY WORKROOM LAP CEILING AND SECOND FLOOR WR GYPSUM CEILING AS REQUIRED FOR THE INSTALLATION OF THIRD FLOOR PLUMBING FIXTURES. REFER TO MECHANICAL DRAWINGS.
REMOVE AND REPLACE LAY IN ACOUSTIC TILE AS REQUIRED TO RUN CONDUIT FROM NEW WASHROOMS TO OFFICE FOR EMERGENCY CALL BUTTON AND INDICATOR.

STUDENT OCCUPANT LOAD (FOR W/C COUNT ONLY)

ROOM TYPE (EXISTING)	NUMBER OF ROOMS	OCC. LOAD PER ROOM	TOTAL OCC. LOAD	NOTES
CLASSROOMS	17	26	442	
SECOND FLOOR				
CLASSROOMS	24	26	624	
THIRD FLOOR				
CLASSROOMS	9	26	234	
FUTURE PORTABLES	6	26	156	
TOTAL OCCUPANT LOAD			1456	

NOTE (1) - OCCUPANT LOAD OF THIS ROOM IS ALREADY INCLUDED IN TEACHING AREA OCCUPANT LOAD.
1456 (OCC. LOAD) DIVIDED BY 2 = 728 GIRLS & 728 BOYS
728 DIV. BY 30 BOYS = 24.3 (25) BOYS WASHROOMS REQUIRED
728 DIV. BY 26 GIRLS = 28.0 (28) GIRLS WASHROOMS REQUIRED

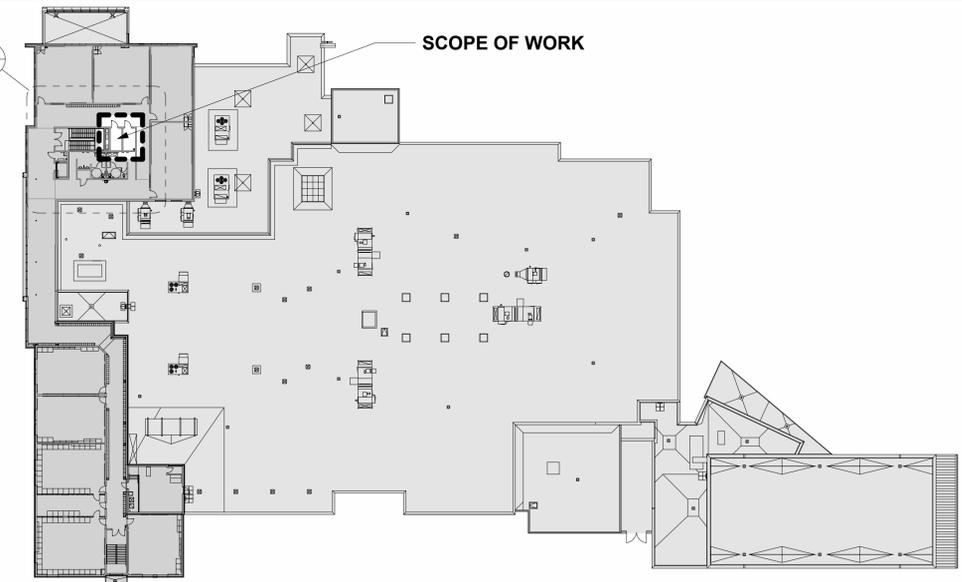


4 PARTIAL SECOND FLOOR FIRE SEPARATION PLAN
SCALE: 1:200

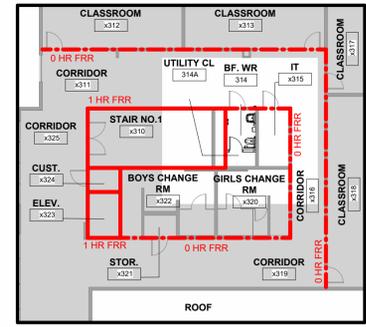
STAFF OCCUPANT LOAD (FOR W/C COUNT ONLY)

ROOM TYPE (EXISTING)	NUMBER OF ROOMS	OCC. LOAD PER ROOM	TOTAL OCC. LOAD	NOTES
CLASSROOMS	17	1	17	
CHapel	1	1	1	
LEARNING COMMONS	1	2	2	
ADMINISTRATION AREAS:				
PRINCIPAL	1	1	1	
VICE PRINCIPAL	2	1	2	
OFFICE MANAGER	1	1	1	
RECEPTIONIST	1	6	6	
GUIDANCE	6	1	6	
CUSTODIAN	4	1	4	
KITCHEN STAFF	6	1	6	
TEACHER WORKROOM	1	20	20	
SUBTOTAL GROUND FLOOR			45	
SECOND FLOOR				
CLASSROOM	23	1	23	
THIRD FLOOR				
CLASSROOM	9	1	9	
FUTURE PORTABLES	6	1	6	
TOTAL OCCUPANT LOAD			104	

NOTE (1) - OCCUPANT LOAD OF THIS ROOM IS ALREADY INCLUDED IN TEACHING AREA OCCUPANT LOAD.
104 (OCC. LOAD) DIVIDED BY 2 = 52 WOMEN & 52 MEN
52 DIV. BY 30 BOYS = 1.7 (2) MENS WASHROOM FIXTURE REQUIRED
52 DIV. BY 26 GIRLS = 2 (2) WOMENS WASHROOM FIXTURE REQUIRED



3 THIRD FLOOR KEY PLAN
SCALE: 1:500



5 PARTIAL THIRD FLOOR FIRE SEPARATION PLAN
SCALE: 1:200

STAFF WATER CLOSET COUNT

WASHROOM TYPE	NO. OF WATER CLOSETS PROVIDED	NO. OF LAVATORIES
GROUND FLOOR		
KITCHEN / SERVERY	1	1
GYMNASIUM MALE STAFF CHANGE ROOM	1	1
GYMNASIUM FEMALE STAFF CHANGE ROOM	1	1
STAFF MENS	3 (2+1 BF)	2
STAFF WOMENS	3 (2+1 BF)	2
SECOND FLOOR		
CUSTODIAL STAFF WASHROOM	1	1
STAFF WASHROOM	1	1
STAFF WASHROOM	1	1
THIRD FLOOR		
STAFF WASHROOM	1 BF	1
SUBTOTAL STAFF	13	1

WATER CLOSET COUNT

WASHROOM TYPE	NO. OF WATER CLOSETS & URINALS	NO. OF LAVATORIES
GROUND FLOOR - GENDER NEUTRAL		
UTR WASHROOM** OBC 3.7.4.1(7)	1 (1M + 1F)	1
HEALTH WASHROOM	1	1
VISITOR WASHROOM	1 BF	1
VISITOR WASHROOM	1 BF	1
SECOND FLOOR - GENDER NEUTRAL		
GN WR - A	7 (6+1 BF)	4
GN WR - B	6 (5+1 BF)	4
SUBTOTAL GENDER NEUTRAL	18 (8M + 9F)	
GROUND FLOOR - STUDENT MALE		
BOYS WASHROOM	3 (2+1 BF)	2
BOYS CHANGE ROOM	1	1
BOYS WASHROOM	10 (9+1 BF)	3
THEATRE CHANGE ROOM	1	1
SECOND FLOOR - STUDENT MALE		
BOYS WASHROOM	3 (2+1 BF)	2
THIRD FLOOR - STUDENT MALE		
BOYS WASHROOM	3 (2+1 BF)	2
SUBTOTAL STUDENT MALE	21	
GROUND FLOOR - STUDENT FEMALE		
GIRLS WASHROOM	2 (1+1 BF)	2
GIRLS CHANGE ROOM	1	1
GIRLS WASHROOM	10 (9+1 BF)	3
THEATRE CHANGE ROOM	1	1
SECOND FLOOR - STUDENT MALE		
GIRLS WASHROOM	2 (1+1 BF)	2
THIRD FLOOR - STUDENT MALE		
GIRLS WASHROOM	2 (1+1 BF)	2
SUBTOTAL STUDENT FEMALE	18	
WASHROOM TYPE	NO. OF WATER CLOSETS & URINALS	
STUDENT MALE WASHROOMS	29	
STUDENT FEMALE WASHROOMS	28	
STAFF WASHROOMS	13	

1 ISSUED FOR TENDER 03/17/25
NO ISSUED DATE

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ASSUMPTION CATHOLIC SECONDARY SCHOOL GN. WR. RENOVATION

3230 WOODWARD AVENUE, BURLINGTON, ON L7N 3P1
LEGAL DESCRIPTION
REGISTERED PLAN 291, LOT 11, PART OF LOT 13 CITY OF BURLINGTON



802 DURURY LANE, (905) 632-6300
BURLINGTON ON L7R 2Y2 AbrahamsC@hcdsb.org

FIRE SEPARATION & OBC MATRIX



105 - 1039 IRONDALE WAY
OAKVILLE, ON N 4H 3V8
(905) 875-8888
SCALE PROJECT
As Indicated
DATE MARCH 2025
DRAWN AM
CHECKED PL
PRINT DATE 3/17/2025 2:02:18 PM
REVIT FILE T:\2024\24116\02\Revit\RV

24116
A02

WALL AND FLOOR HATCH LEGEND

- EXISTING PORTIONS OF THE BUILDING, NOT PART OF THE SCOPE OF WORK.
- EXISTING WALLS TO REMAIN
- EXISTING WALLS TO BE DEMOLISHED. REFER TO DEMOLITION PLANS AND NOTES.
- EXISTING PARTITIONS TO BE DEMOLISHED. REFER TO DEMOLITION PLANS AND NOTES.
- EXISTING CONCRETE SLAB ON GRADE AND SUB-BASE TO BE REMOVED. REFER TO DEMOLITION PLANS AND NOTES.
- NEW CONCRETE SLAB INFILL, CAV SUB-BASE AND NEW FLOOR FINISH. REFER TO STRUCT. DWGS. AND ROOM FINISH SCHEDULE.
- NEW PORCELAIN TILE. REFER TO ROOM FINISH SCHEDULE AND SPEC.

DEMOLITION NOTES

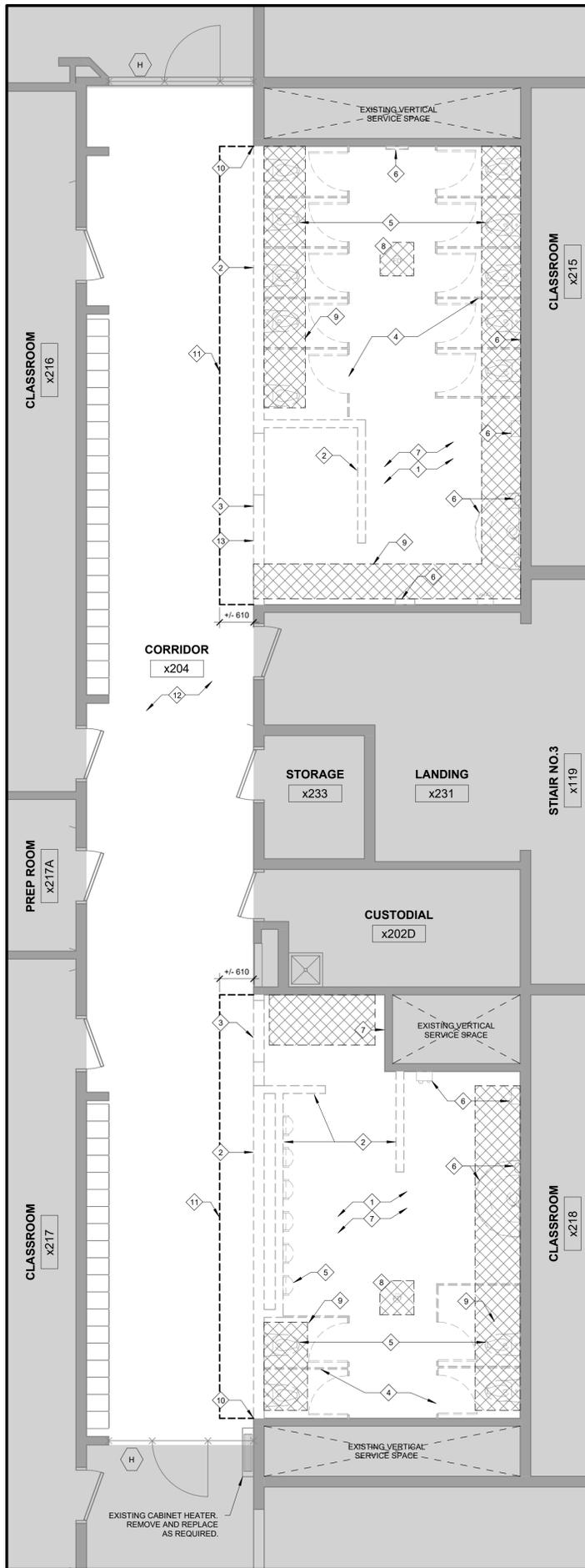
GC IS TO FIELD VERIFY ALL EXISTING SITE CONDITIONS PRIOR TO CONSTRUCTION.
 ALL REMOVALS AND DEMOLITION TO BE COORDINATED WITH STRUCTURAL, MECHANICAL, ELECTRICAL DRAWINGS PRIOR TO DEMOLITION START. FOR ADDITIONAL DEMOLITION, DOCUMENTS AND DETAILS SEE STRUCTURAL, MECH. AND ELEC. DWGS.
 GENERAL CONTRACTOR TO X-RAY ALL EXISTING CONCRETE FLOOR SLABS AND ROOF ASSEMBLY AS REQUIRED PRIOR TO DEMOLITION/ CORING. SEE SPECIFICATIONS.
 RENOVATED AREAS TO BE THOROUGHLY CLEANED TO OWNER SATISFACTION.
 REMOVAL OF ALL CONSTRUCTION DUST, DEBRIS AND MATERIALS AS PER SPECIFICATION SECTION 01 74 11.

- 1 REMOVE EXISTING FLOOR MOSAIC TILE, MASTIC AND MORTAR BED, INCLUDING BASEBOARDS, ETC. IN ENTIRE ROOM. PATCH AND MAKE GOOD EXISTING SUBFLOOR TO ACCEPT NEW FLOORING TO SATISFACTION OF FLOORING SUBTRADE (INCLUDING PATCHING, LEVELING, SKIM-COATING, ETC). PATCH AND MAKE GOOD EXISTING WALLS TO REMAIN FOR NEW FINISHES. REFER TO FINISH SCHEDULE AND SPEC. FOR NEW FINISH MATERIAL AND BASE.
- 2 REMOVE EXISTING CONCRETE BLOCK WALL ASSEMBLY FROM FINISHED FLOOR TO +/- 2400. SALVAGE EXISTING BLOCK FOR REUSE AND PATCHING IN EXISTING BLOCK WALLS. PATCH AND MAKE GOOD EXISTING ADJACENT FLOOR SLABS, WALLS AND CEILING AS REQUIRED FOR NEW ROOM LAYOUT. EXISTING LINTEL AT OPENING TO BE REMOVED. GC TO COORDINATE WITH STRUCTURAL DRAWINGS AND PROVIDE ADEQUATE SHORING AS NOTED.
- 3 EXISTING OPENING. EXISTING LINTEL TO BE REMOVED AND CONCRETE BLOCK WALL ABOVE TO BE DEMOLISHED TO +/- 2400. GC TO COORDINATE WITH STRUCTURAL DRAWINGS AND PROVIDE ADEQUATE SHORING AS NOTED.
- 4 REMOVE EXISTING WASHROOM PARTITIONS, HARDWARE, FASTENERS, TOILET PAPER DISPENSERS, SANITARY NAPKIN DISPOSAL, GRAB BARS, ETC. PATCH AND MAKE GOOD ALL WALLS AS REQUIRED. REFER TO MECH. DWGS.
- 5 CONTRACTOR TO REMOVE EXISTING TOILET AND URINALS TO BE HANDED OVER TO OWNER IN ENTIRE ROOM. CAP ALL ASSOCIATED PLUMBING AND PREPARE CONCRETE FLOOR FOR NEW FINISH. REFER TO MECHANICAL DRAWINGS.
- 6 CONTRACTOR TO REMOVE AND DISPOSE EXISTING BRADLEY, HAND DRYERS, MIRRORS, SOAP DISPENSERS, OUTLETS, PA SPEAKERS, SURFACE MOUNTED CONDUIT AND ETC. PATCH ALL CAVITIES AND MAKE GOOD ALL WALLS TO REMAIN AS REQUIRED. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS.
- 7 REMOVE EXISTING WALL TILE, GROUT, ETC. ON WALLS IN ENTIRE ROOM. PATCH AND REPAIR ALL EXISTING CONCRETE WALLS WITH SALVAGED BLOCK. REFER TO FINISH SCHEDULE AND SPECIFICATIONS. FOR NEW FINISH MATERIAL AND BASE.
- 8 CONTRACTOR CHIP OUT EXISTING 200mm CONCRETE SLAB FOR REMOVAL OF EXISTING FLOOR DRAIN OR CLEAN OUT. PATCH AND MAKE GOOD AS REQUIRED DUE TO FLOOR DRAIN OR CLEAN OUT REQUIREMENT.
- 9 EXISTING 200mm CONCRETE SLAB TO BE CUT TO SUIT REQUIRED PLUMBING WORK. TYPICAL FOR ALL AREA SHOWN IN HATCH INDICATED. REFER TO MECHANICAL DRAWINGS. EXACT EXTENT TO BE CONFIRMED ON SITE.
- 10 RE-INSTALL SALVAGED CONCRETE BLOCK WALL TO REPAIR END OF EXISTING WALL. BULLNOSE EDGE OF BLOCK AND PREPARE WALL FOR NEW FINISH. REFER TO ROOM FINISH SCHEDULE AND PLANS.
- 11 REMOVE EXISTING CERAMIC FLOOR TILE, MASTIC AND MORTAR BED, INCLUDING BASEBOARDS, ETC. IN ENTIRE ROOM. TO EXTENTS SHOWN OR TO THE NEXT FULL TILE. PATCH AND MAKE GOOD EXISTING SUBFLOOR TO ACCEPT NEW FLOORING TO SATISFACTION OF FLOORING SUBTRADE (INCLUDING PATCHING, LEVELING, SKIM-COATING, ETC). REFER TO FINISH SCHEDULE AND SPEC. FOR NEW FINISH MATERIAL AND BASE.
- 12 PROVIDE 6mm POLY VAPOUR BARRIER AT EXISTING OPENINGS IN EXISTING CORRIDOR TO PREVENT CONSTRUCTION DUST INFILTRATION INTO AREAS NOT PART OF THE SCOPE OF WORK. GC TO CLEAN DEBRIS DUE TO BROKEN OR IMPROPER SEALS DURING CONSTRUCTION.

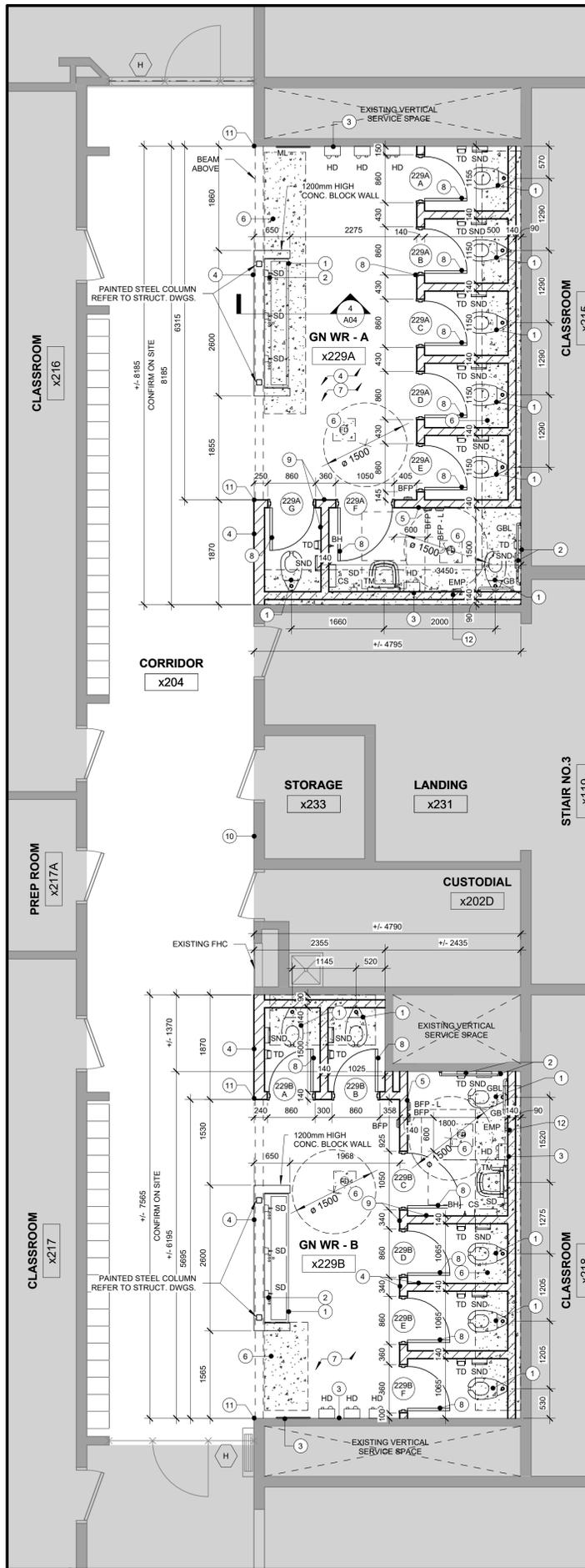
CONSTRUCTION NOTES

CONTRACTOR / TRADES TO FIELD VERIFY ALL EXISTING SITE CONDITIONS PRIOR TO CONSTRUCTION.
 ALL REMOVALS / DEMOLITIONS TO BE COORDINATED WITH INTERIOR DESIGN, MECHANICAL, ELECTRICAL DRAWINGS PRIOR TO DEMOLITION START. FOR ADDITIONAL DEMOLITION DOCUMENTS AND DETAILS, SEE DRAWINGS AND SPECIFICATIONS.
 GENERAL CONTRACTOR TO X-RAY EXISTING CONCRETE SLAB ON GRADE PRIOR TO DEMOLITION OF ANY SLAB. SEE SPECIFICATIONS.
 GENERAL CONTRACTOR TO REVIEW DOOR FINISH AND INTERIOR FINISH SCHEDULE FOR EXTENT OF REPAIR / REPLACEMENT AND REFINISHING OF EXISTING DOORS AND FRAMES.
 AREA OF WORK TO BE THOROUGHLY CLEANED FOLLOWING DEMOLITION TO OWNER SATISFACTION OF ALL CONSTRUCTION DUST, DEBRIS AND MATERIALS AS OUTLINED IN SPECIFICATION.

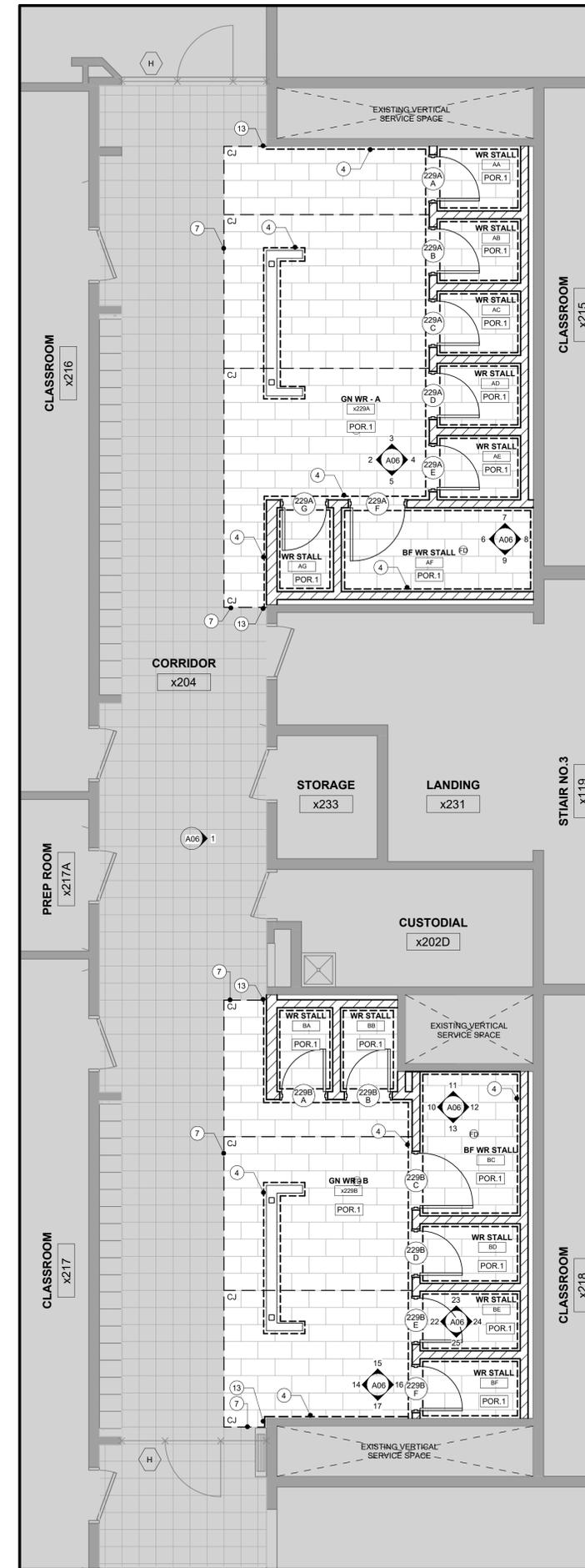
- 1 CONTRACTOR TO SUPPLY AND INSTALL PLUMBING FIXTURES, TYPICAL IN ENTIRE ROOM. REFER TO MECH. DWGS.
- 2 CONTRACTOR TO SUPPLY AND INSTALL WASHROOM ACCESSORIES (SD, TD, GB, GBL, BH, SN, SND, TM, M, ML, ETC.) AS NOTED ON FLOOR PLAN. REFER TO INTERIOR ELEVATIONS, DETAILS AND SPECIFICATIONS.
- 3 CONTRACTOR TO INSTALL BOARD SUPPLIED HAND DRYER (HD), ROUGH IN ELECTRICAL WITHIN EXISTING WALL. REFER TO INTERIOR ELEVATIONS, DETAILS, SPECIFICATIONS AND ELEC. DWGS. CONTRACTOR TO ENSURE HAND DRYER DOES NOT INTERFERE WITH ACCESS TO WR STALLS.
- 4 CONTRACTOR TO SUPPLY AND INSTALL CERAMIC WALL TILES (CWT), WALL TILE (FLOOR TO CEILING) UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR SIZE AND COLOURS. REFER TO INTERIOR ELEVATIONS FOR EXTENT. REFER TO FLOOR FINISH PLAN, EX. ACCESS PANELS TO REMAIN.
- 5 SUPPLY AND INSTALL BFP AND BFP-L. REFER TO FLOOR PLAN, DOOR SCHEDULE AND ELEC. DWGS.
- 6 SUPPLY AND INSTALL 200mm CONCRETE SLAB AND 50mm TOPPER TO MATCH EXISTING, INCLUDING PATCHING, LEVELING, SKIM-COATING, ETC. AFTER PLUMBING WORK IS COMPLETE. REFER TO MECH. DWGS FOR LOCATION OF FLOOR DRAIN.
- 7 CONTRACTOR TO SUPPLY AND INSTALL PORCELAIN (POR) TILE THROUGHOUT ROOM. ALIGN GROUT LINES WITH EXISTING CORRIDOR TILE GROUT LINES. REFER TO FLOOR FINISH PLAN FOR EXTENT.
- 8 SUPPLY AND INSTALL NEW HM FRAMES AND WOOD DOORS. REFER TO DOOR SCHEDULE, HARDWARE SCHEDULE AND STRUCTURAL LINTEL SCHEDULE FOR LINTEL SIZE, TYP.
- 9 INSTALL NEW BLOCK WALL (FLOOR TO UNDERSIDE OF DECK). REFER TO STRUCTURAL DETAILS AND NOTES). TYP. PAINT EXPOSED WALLS. REFER TO ELEVATIONS FOR EXTENT.
- 10 NEW PRIME AND PAINT ON EXISTING CORRIDOR BLOCK WALLS TO MATCH EXPOSED NEW BLOCK WALLS.
- 11 RE-INSTALL SALVAGED CONCRETE BLOCK WALL TO REPAIR END OF EXISTING WALL. BULLNOSE EDGE OF BLOCK AND PREPARE WALL FOR NEW FINISH.
- 12 CONTRACTOR TO SUPPLY AND INSTALL EMERGENCY PUSH BUTTON AND AUDIBLE AND VISUAL SIGNAL. CONTRACTOR TO RUN CONDUIT/WIRING TO ADMINISTRATION OFFICE WITHIN CEILING SPACE. REFER TO FLOOR PLANS, SCHEDULES AND ELEC. DWGS.
- 13 CERAMIC TILE AND PORCELAIN TILE TO ALIGN AT EDGE. TILE ALIGNMENT TO BE COORDINATED WITH CONSULTANT PRIOR TO INSTALLATION AT CONDITION.



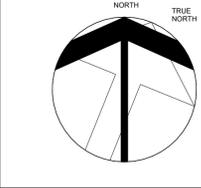
1 DEMOLITION - SECOND FLOOR ENLARGED WASHROOM PLAN
 SCALE: 1:50



2 PROPOSED SECOND FLOOR ENLARGED WASHROOM PLAN
 SCALE: 1:50



3 PROPOSED SECOND FLOOR FINISH PLAN
 SCALE: 1:50



ABBREVIATION LEGEND

- AFF ABOVE FINISH FLOOR
- BF BARRIER FREE
- BFP BARRIER FREE PUSH BUTTON
- BFP-L BARRIER FREE PUSH BUTTON-LOCK
- BH BREAK-AWAY HOOK
- CONC CONCRETE
- CONT CONTINUOUS
- CS CONVENIENCE SHELF
- CJ CONTROL JOINT
- CWT CERAMIC WALL TILE
- CW COMPLETE WITH
- DN DOWN
- EMP EMERGENCY PUSH BUTTON
- EX EXISTING
- EXT EXTERIOR
- FD FLOOR DRAIN
- GB GRAB BAR
- GBL GRAB BAR L SHAPE
- GN GENDER NEUTRAL
- GYP GYPSUM BOARD
- HD HAND DRYER
- HORZ HORIZONTAL
- LAP LAY IN ACOUSTIC PANEL
- LF LIGHT FIXTURE
- NIC NOT IN CONTRACT
- PREFIN PREFINISHED
- POR PORCELAIN
- RM ROOM
- SD SOAP DISPENSER
- SN NAPKIN DISPOSAL
- SND SANITARY NAPKIN DISPENSER
- TM TILT MIRROR
- TD TOILET PAPER DISPENSER
- TYP TYPICAL
- WR WASHROOM

1	ISSUED FOR TENDER	03 17 25
NO	ISSUED	DATE

DRAWINGS ARE NOT TO BE SCALED. CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS ON THE PROJECT, AND MUST REPORT ANY DISCREPANCIES TO THE CONSULTANTS BEFORE PROCEEDING WITH THE WORK. THE USE OF THIS DRAWING OR PART THEREOF IS FORBIDDEN WITHOUT THE WRITTEN APPROVAL OF THE CONSULTANTS.



CERTIFICATE OF PRACTICE #4292

ASSUMPTION CATHOLIC SECONDARY SCHOOL GN. WR. RENOVATION

3230 WOODWARD AVENUE, BURLINGTON, ON L7N 3P1
 LEGAL DESCRIPTION
 REGISTERED PLAN 291, LOT 11, PART OF LOT 13 CITY OF BURLINGTON



802 DURURY LANE, (905) 632-6300
 BURLINGTON ON L7R 2Y2 AbrahamsC@hcdsb.org

SECOND FLOOR WR ENLARGED PLANS



155 - 1639 IRONDALE WAY
 OAKVILLE, ON L6H 3V8
 (905) 919-9338
 T: (2024) 2411602; R: vlt.rvt

SCALE	1:50	PROJECT	24116
DATE	MARCH 2025	DRAWING	A03
DRAWN	AM	PRINT DATE	3/17/2025 2:02:20 PM
CHECKED	PL	REVIT FILE	T:\2024\24116\02\Revit\RVT

RCP LEGEND

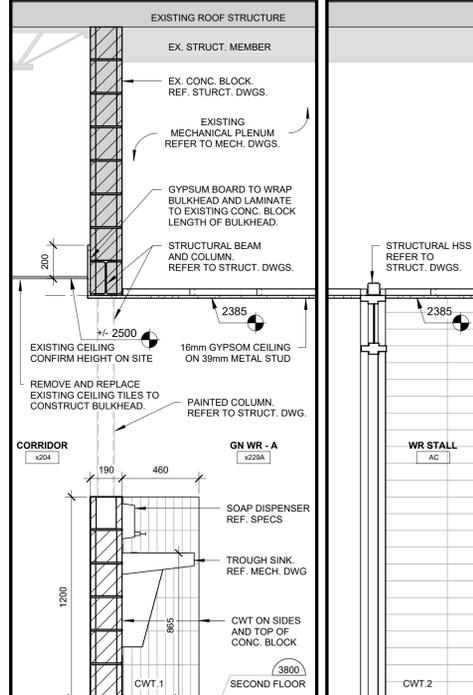
- LIGHT FIXTURE. REFER TO LIGHTING PLANS/LIGHTING SCHEDULES FOR TYPE.
- FLUSH MOUNTED LIGHT FIXTURE. REFER TO LIGHTING PLANS/LIGHTING SCHEDULES FOR TYPE.
- ACOUSTIC CEILING PANELS. REFER TO SPECIFICATIONS FOR DESCRIPTION OF TYPES.
- SUPPLY DIFFUSER.
- RETURN DIFFUSER.
- RADIANT PANEL.
- GYPSUM BOARD CEILING.
- CEILING HEIGHT FROM FINISHED FLOOR.
- LIGHT FIXTURE.
- GBB GYPSUM BOARD BULKHEAD.
- EXISTING PORTIONS OF THE BUILDING. NOT PART OF THE SCOPE OF WORK.
- EXISTING WALLS TO REMAIN.
- EXISTING WALLS TO BE DEMOLISHED. REFER TO DEMOLITION PLANS AND NOTES.
- EXISTING PARTITIONS TO BE DEMOLISHED. REFER TO DEMOLITION PLANS AND NOTES.

DEMOLITION NOTES - RCP

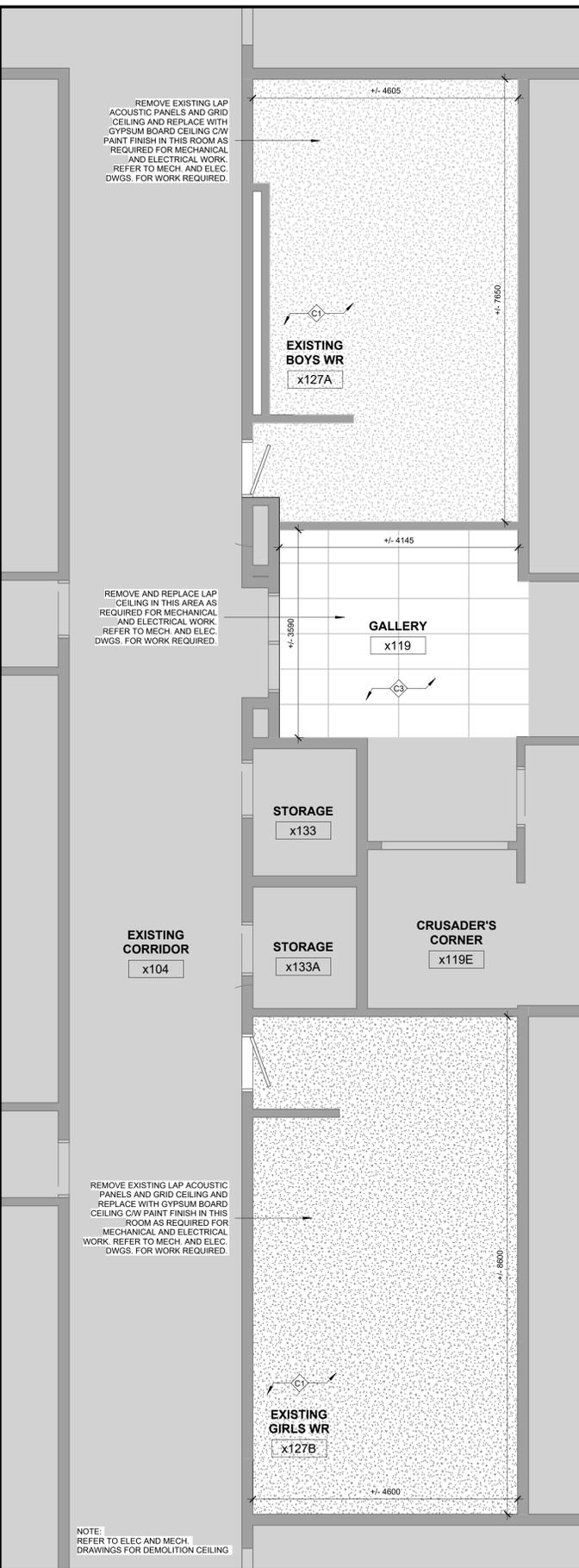
- CONTRACTOR TO FIELD VERIFY ALL EXISTING SITE CONDITIONS PRIOR TO CONSTRUCTION.
- ALL REMOVALS AND DEMOLITION TO BE COORDINATED WITH INTERIOR DESIGN, MECHANICAL, ELECTRICAL DRAWINGS PRIOR TO DEMOLITION. REFER TO DRAWINGS AND SPECIFICATIONS.
- AREA OF WORK TO BE THOROUGHLY CLEANED FOLLOWING DEMOLITION TO OWNER SATISFACTION OF ALL CONSTRUCTION DUST, DEBRIS AND MATERIALS AS OUTLINED IN SPECIFICATION.
- REMOVE EXISTING GYPSUM CEILING, DIFFUSERS, LIGHTING, SPRINKLER HEADS, SPEAKERS, ACCESS PANELS, ETC. AS REQUIRED TO INSTALL NEW CEILING REFER TO MECH. AND ELEC. DWGS FOR LIGHTING, FIXTURES, DEVICES, HVAC REMOVALS AND RELOCATION AND REQUIRED SPRINKLER HEAD / PIPING MODIFICATIONS NOT SHOWN ON THIS DRAWING.
 - CAREFULLY REMOVE PORTION OF EXISTING ACOUSTIC CEILING TILES, GRIDS, DIFFUSERS, LIGHTING, RETURNS, ETC. TO EXTENT SHOWN AS REQUIRED TO INSTALL NEW CEILING. SALVAGE EXISTING CEILING TILES AND STORE SAFELY ON SITE FOR INSTALLATION IN ADJACENT CEILING TO REMAIN. REFER TO MECH. AND ELEC. DWGS. PATCH AND MAKE GOOD EXISTING WALLS & CEILING TO REMAIN AS REQUIRED FOR NEW CEILING.
 - CAREFULLY REMOVE EXISTING CEILING TILES AND GRID AS REQUIRED FOR MECHANICAL AND ELECTRICAL WORK. SAFELY STORE ON SITE EXISTING TILES FOR RE-INSTALLATION. REFER TO MECH. AND ELEC. DWGS.

CONSTRUCTION NOTES - RCP

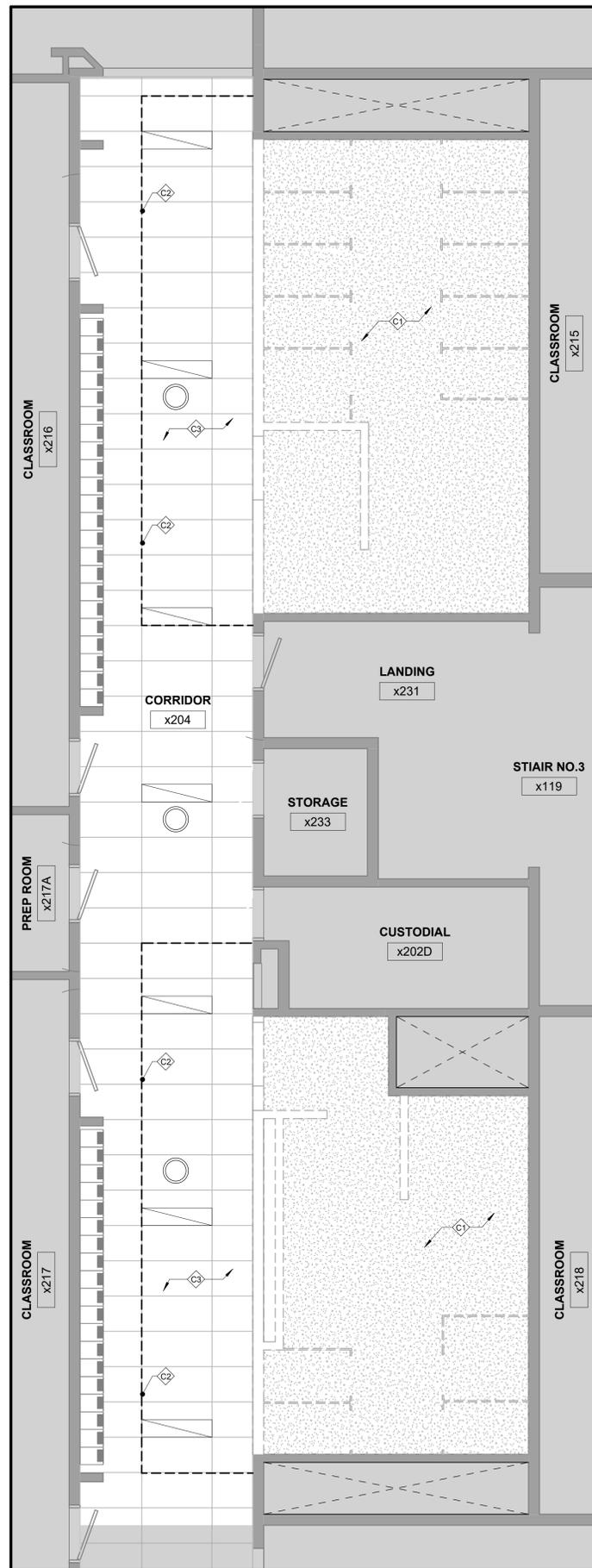
- CONTRACTOR TO FIELD VERIFY ALL EXISTING CEILING HEIGHTS.
- ALL CONSTRUCTION TO BE COORDINATED WITH INTERIOR DESIGN, MECHANICAL, ELECTRICAL, STRUCTURAL DRAWINGS PRIOR TO CONSTRUCTION. REFER TO DRAWINGS AND SPECIFICATIONS.
- AREA OF WORK TO BE THOROUGHLY CLEANED FOLLOWING CONSTRUCTION TO OWNER SATISFACTION OF ALL CONSTRUCTION DUST, DEBRIS AND MATERIALS AS OUTLINED IN SPECIFICATION.
- CONTRACTOR TO INSTALL NEW 13mm GYPSUM BOARD CEILING ON METAL FRAMING. PAINT FINISH. REFER TO ROOM FINISH AND SPEC.
 - CONTRACTOR TO REINSTALL EXISTING ACOUSTIC CEILING TILES/GRID AS REQUIRED TO SUIT.
 - NEW GYPSUM BOARD BULKHEAD SECURED TO STRUCTURAL BEAM. MODIFY EXISTING LAP CEILING AND GRID TO SUITE. REFER TO SECTION. REF. STRUCTURAL DRAWINGS.
 - SUPPLY AND INSTALL NEW LIGHTS THROUGHOUT. REFER TO ELECTRICAL DRAWINGS FOR TYPE AND LOCATION.
 - CONTRACTOR TO REMOVE AND RELOCATE EXISTING SPRINKLER HEAD TO SUIT NEW CEILING FINISH. REFER TO MECH DWGS AND SPECS.
 - CONTRACTOR TO INSTALL NEW RETURN/EXHAUST GRILLE TO EXISTING DUCTWORK. REFER TO MECH. DWGS.
 - CONTRACTOR TO INSTALL NEW DIFFUSER. REFER TO MECH DWGS.



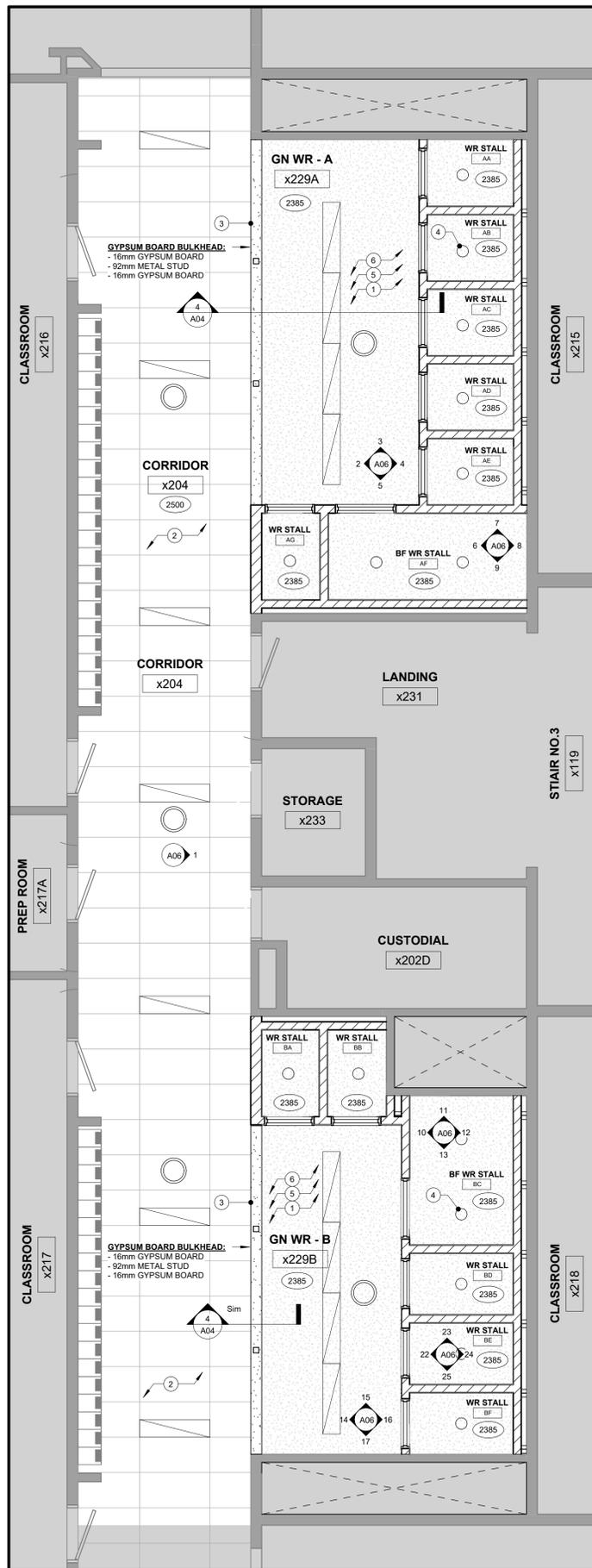
4 GN WR TYP. BULKHEAD
SCALE: 1:20
A04



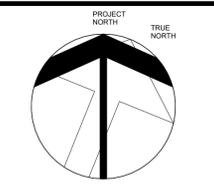
3 PARTIAL GROUND FLOOR - ENLARGED - PROPOSED RCP
SCALE: 1:50
A04



2 PARTIAL SECOND FLOOR - ENLARGED - DEMO RCP
SCALE: 1:50
A04



1 PARTIAL SECOND FLOOR - ENLARGED - PROPOSED RCP
SCALE: 1:50
A04



ABBREVIATION LEGEND

- AFB ABOVE FINISH FLOOR
- BF BARRIER FREE
- BFP BARRIER FREE PUSH BUTTON
- BFP-L BARRIER FREE PUSH BUTTON-LOCK
- BH BREAK-AWAY HOOK
- CONC CONCRETE
- CONT. CONTINUOUS
- CS CONVENIENCE SHELF
- CJ CONTROL JOINT
- CWT CERAMIC WALL TILE
- CW COMPLETE WITH
- DN DOWN
- EMP EMERGENCY PUSH BUTTON
- EX EXISTING
- EXT. EXTERIOR
- FD FLOOR DRAIN
- GB GRAB BAR
- GBL GRAB BAR L SHAPE
- GN GENDER NEUTRAL
- GYP GYPSUM BOARD
- HD HAND DRYER
- HORZ. HORIZONTAL
- LAP LAY IN ACOUSTIC PANEL
- LF LIGHT FIXTURE
- NIC NOT IN CONTRACT
- PREFIN PREFINISHED
- POR PORCELAIN
- RM ROOM
- SD SOAP DISPENSER
- SN NAPKIN DISPOSAL
- SND SANITARY NAPKIN DISPENSER
- TM TILT MIRROR
- TD TOILET PAPER DISPENSER
- TYP TYPICAL
- WR WASHROOM

1	ISSUED FOR TENDER	03 17 25
NO	ISSUED	DATE

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CERTIFICATE OF PRACTICE #4292

ASSUMPTION CATHOLIC SECONDARY SCHOOL GN. WR. RENOVATION

3230 WOODWARD AVENUE,
BURLINGTON, ON L7N 3P1

LEGAL DESCRIPTION
REGISTERED PLAN 291, LOT 11,
PART OF LOT 13
CITY OF BURLINGTON



802 DURURY LANE, (905) 632-6300
BURLINGTON ON L7R 2Y2 AbrahamsC@hcdsb.org

SECOND FLOOR WR RCP & DETAILS



103 - 1039 IRONDAK WAY
OXFORD, ON L6H 3V8
(905) 975-0334 admin@hossackarch.com

SCALE	PROJECT	24116
As Indicated		
DATE	MARCH 2025	
DRAWN	AM	DRAWING
CHECKED	PL	A04
PRINT DATE	3/17/2025 2:02:21 PM	
REVIT FILE	T:\2024\24116\02\Revit\RVT	

CONSTRUCTION NOTES

CONTRACTOR / TRADES TO FIELD VERIFY ALL EXISTING SITE CONDITIONS PRIOR TO CONSTRUCTION.

ALL REMOVALS / DEMOLITIONS TO BE COORDINATED WITH INTERIOR DESIGN. MECHANICAL, ELECTRICAL DRAWINGS PRIOR TO DEMOLITION START. FOR ADDITIONAL DEMOLITION DOCUMENTS AND DETAILS, SEE DRAWINGS AND SPECIFICATIONS.

GENERAL CONTRACTOR TO X-RAY EXISTING CONCRETE SLAB ON GRADE PRIOR TO DEMOLITION OF ANY SLAB. SEE SPECIFICATIONS.

GENERAL CONTRACTOR TO REVIEW DOOR FINISH AND INTERIOR FINISH SCHEDULE FOR EXTENT OF REPAIR / REPLACEMENT AND REFINISHING OF EXISTING DOORS AND FRAMES.

AREA OF WORK TO BE THOROUGHLY CLEANED FOLLOWING DEMOLITION TO OWNER SATISFACTION OF ALL CONSTRUCTION DUST, DEBRIS AND MATERIALS AS OUTLINED IN SPECIFICATION.

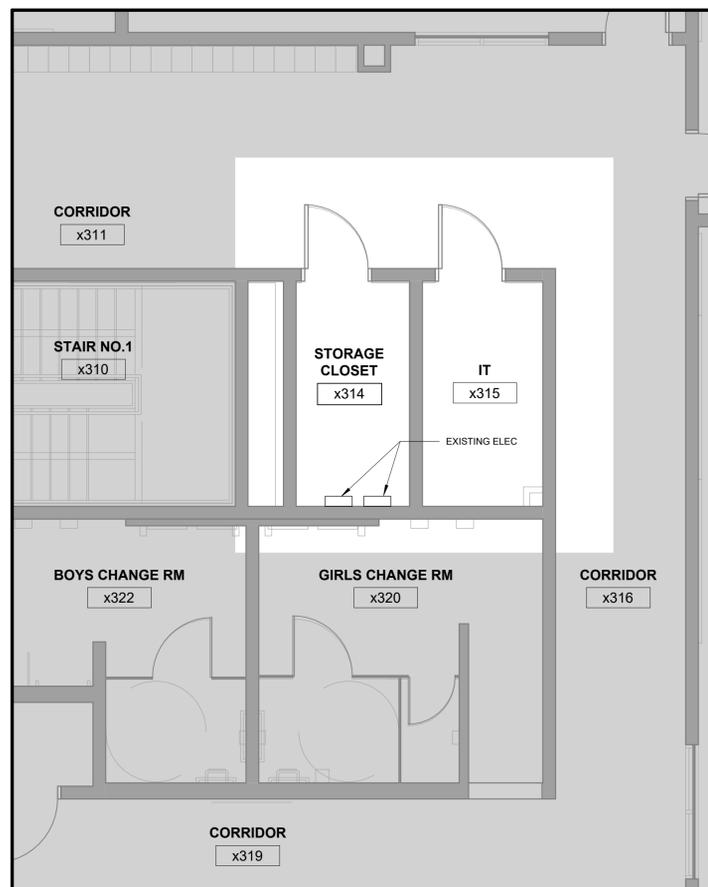
- 1 CONTRACTOR TO SUPPLY AND INSTALL PLUMBING FIXTURES, TYPICAL IN ENTIRE ROOM. REFER TO MECH. DWGS.
- 2 CONTRACTOR TO SUPPLY AND INSTALL WASHROOM ACCESSORIES (SD, TD, GB, GBL, BH, SN, SND, TM, M, ML, ETC.) AS NOTED ON FLOOR PLAN. REFER TO INTERIOR ELEVATIONS, DETAILS AND SPECIFICATIONS.
- 3 CONTRACTOR TO INSTALL BOARD SUPPLIED HAND DRYER (HD), ROUGH IN ELECTRICAL WITHIN EXISTING WALL. REFER TO INTERIOR ELEVATIONS, DETAILS, SPECIFICATIONS AND ELEC. DWGS. CONTRACTOR TO ENSURE HAND DRYER DOES NOT INTERFERE WITH ACCESS TO WR. STALLS.
- 4 CONTRACTOR TO SUPPLY AND INSTALL CERAMIC WALL TILES (CWT), WALL TILE (FLOOR TO CEILING) UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR SIZE AND COLOURS. REFER TO INTERIOR ELEVATIONS FOR EXTENT. REFER TO FLOOR FINISH PLAN, EX. ACCESS PANELS TO REMAIN.
- 5 SUPPLY AND INSTALL BFP AND BFP-L. REFER TO FLOOR PLAN, DOOR SCHEDULE AND ELEC. DWGS.
- 6 SUPPLY AND INSTALL 200mm CONCRETE SLAB AND 50mm TOPPER TO MATCH EXISTING, INCLUDING PATCHING, LEVELING, SKIM-COATING, ETC. AFTER PLUMBING WORK IS COMPLETE. REFER TO MECH. DWGS FOR LOCATION OF FLOOR DRAIN.
- 7 CONTRACTOR TO SUPPLY AND INSTALL PORCELAIN (POR) TILE THROUGHOUT ROOM. ALIGN GROUT LINES WITH EXISTING CORRIDOR TILE GROUT LINES. REFER TO FLOOR FINISH PLAN FOR EXTENT.
- 8 SUPPLY AND INSTALL NEW HM FRAMES AND WOOD DOORS. REFER TO DOOR SCHEDULE, HM HARDWARE SCHEDULE AND STRUCTURAL LINTEL SCHEDULE FOR LINTEL SIZE, TYP.
- 9 INSTALL NEW BLOCK WALL, FLOOR TO UNDERSIDE OF DECK. REFER TO STRUCTURAL DETAILS AND NOTES), TYP. PAINT EXPOSED WALLS. REFER TO ELEVATIONS FOR EXTENT.
- 10 NEW PRIME AND PAINT ON EXISTING CORRIDOR BLOCK WALLS TO MATCH EXPOSED NEW BLOCK WALLS.
- 11 RE-INSTALL SALVAGED CONCRETE BLOCK WALL TO REPAIR END OF EXISTING WALL. BULLNOSE EDGE OF BLOCK AND PREPARE WALL FOR NEW FINISH.
- 12 CONTRACTOR TO SUPPLY AND INSTALL EMERGENCY PUSH BUTTON AND AUDIBLE AND VISUAL SIGNAL. CONTRACTOR TO RUN CONDUIT/WIRING TO ADMINISTRATION OFFICE WITHIN CEILING SPACE. REFER TO FLOOR PLANS, SCHEDULES AND ELEC. DWGS.
- 13 CERAMIC TILE AND PORCELAIN TILE TO ALIGN AT EDGE. TILE ALIGNMENT TO BE COORDINATED WITH CONSULTANT PRIOR TO INSTALLATION AT CONDITION.

WALL AND FLOOR HATCH LEGEND

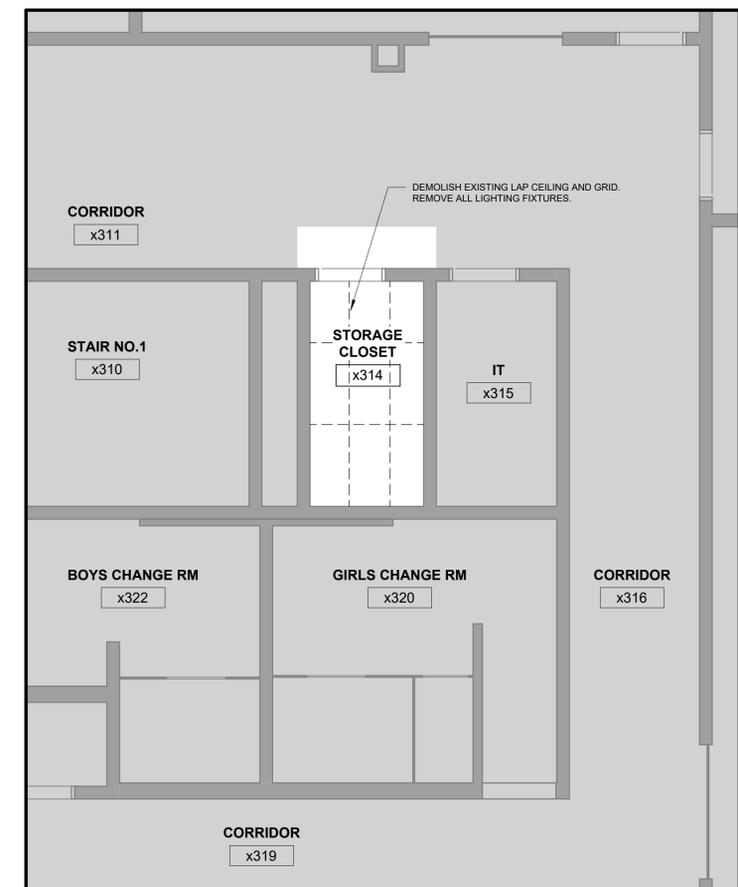
- EXISTING PORTIONS OF THE BUILDING, NOT PART OF THE SCOPE OF WORK.
- EXISTING WALLS TO REMAIN
- EXISTING WALLS TO BE DEMOLISHED. REFER TO DEMOLITION PLANS AND NOTES.
- EXISTING PARTITIONS TO BE DEMOLISHED. REFER TO DEMOLITION PLANS AND NOTES.
- EXISTING CONCRETE SLAB ON GRADE AND SUB-BASE TO BE REMOVED. REFER TO DEMOLITION PLANS AND NOTES.
- NEW CONCRETE SLAB INFILL, C/W SUB-BASE AND NEW FLOOR FINISH. REFER TO STRUCT. DWGS. AND ROOM FINISH SCHEDULE.
- NEW PORCELAIN TILE. REFER TO ROOM FINISH SCHEDULE AND SPEC.

RCP LEGEND

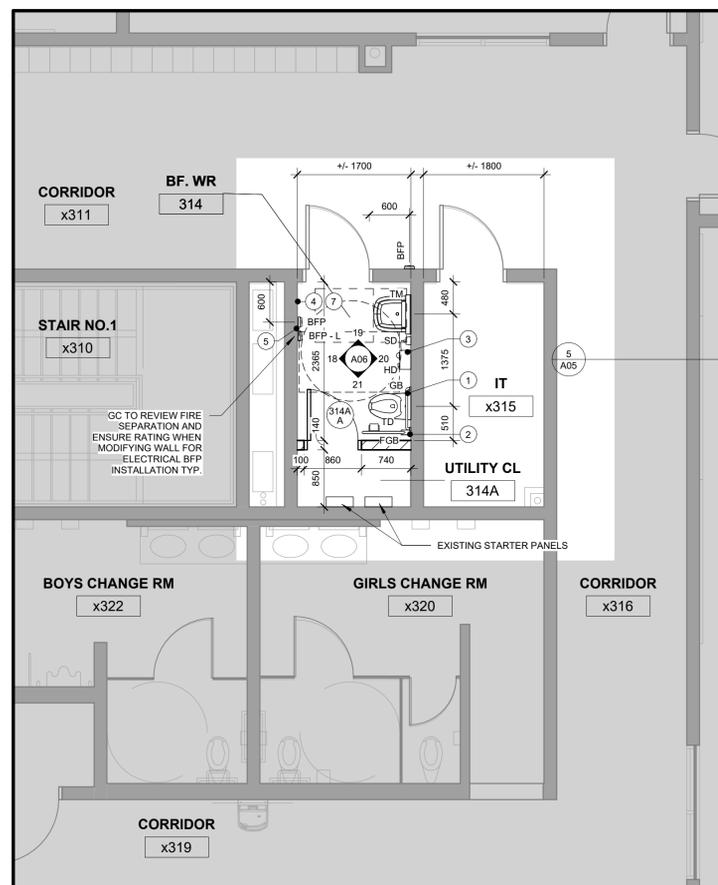
- LIGHT FIXTURE. REFER TO LIGHTING PLANS/LIGHTING SCHEDULES FOR TYPE.
- FLUSH MOUNTED LIGHT FIXTURE. REFER TO LIGHTING PLANS/LIGHTING SCHEDULES FOR TYPE.
- ACOUSTIC CEILING PANELS. REFER TO SPECIFICATIONS FOR DESCRIPTION OF TYPES.
- SUPPLY DIFFUSER
- RETURN DIFFUSER
- RADIANT PANEL
- GYPSUM BOARD CEILING
- CEILING HEIGHT FROM FINISHED FLOOR
- LIGHT FIXTURE
- GYPSUM BOARD BULKHEAD
- EXISTING PORTIONS OF THE BUILDING, NOT PART OF THE SCOPE OF WORK.
- EXISTING WALLS TO REMAIN
- EXISTING WALLS TO BE DEMOLISHED. REFER TO DEMOLITION PLANS AND NOTES.
- EXISTING PARTITIONS TO BE DEMOLISHED. REFER TO DEMOLITION PLANS AND NOTES.



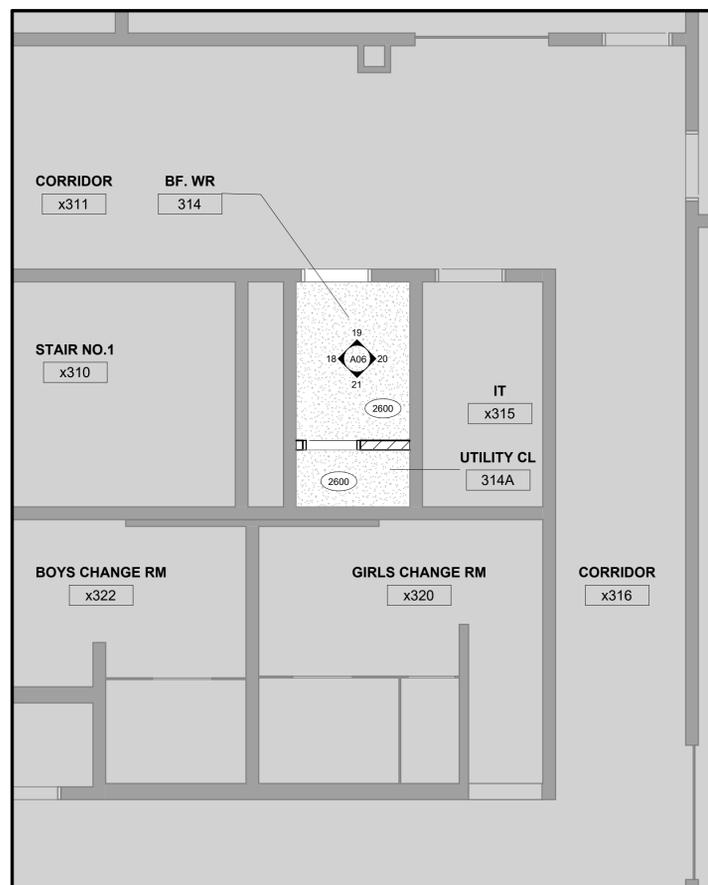
1 PARTIAL THIRD FLOOR PLAN - DEMOLITION
SCALE: 1 : 50



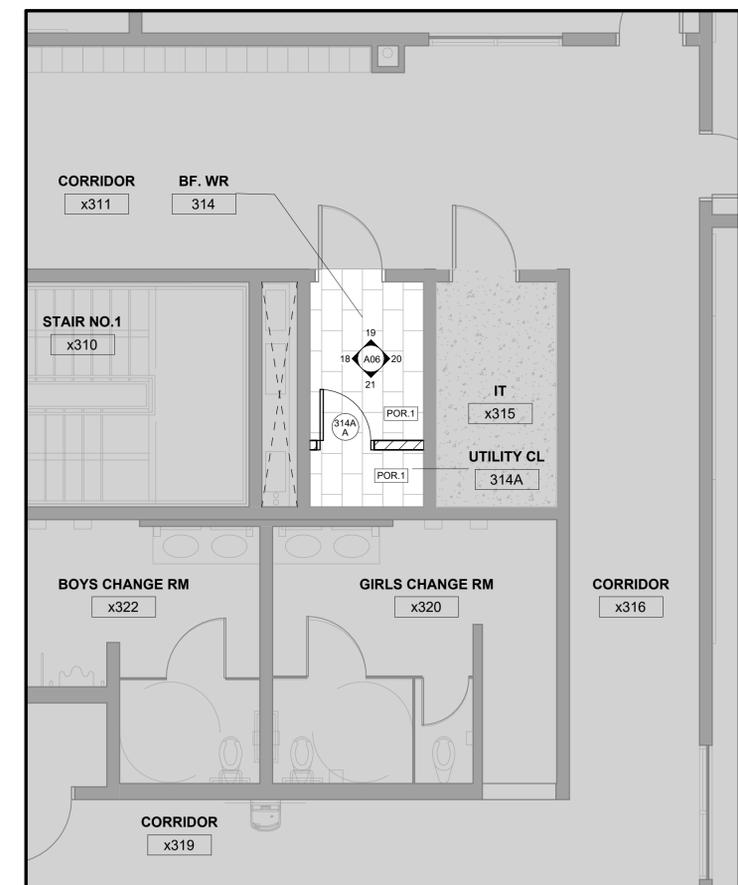
2 PARTIAL THIRD FLOOR RCP - DEMOLITION
SCALE: 1 : 50



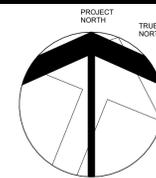
3 PARTIAL THIRD FLOOR PLAN - PROPOSED
SCALE: 1 : 50



4 PARTIAL THIRD FLOOR RCP - PROPOSED
SCALE: 1 : 50



5 PARTIAL THIRD FLOOR FINISH PLAN - PROPOSED
SCALE: 1 : 50



ABBREVIATION LEGEND

- AF ABOVE FINISH FLOOR
- BF BARRIER FREE
- BFP BARRIER FREE PUSH BUTTON
- BFP-L BARRIER FREE PUSH BUTTON-LOCK
- BH BREAK-AWAY HOOK
- CONC. CONCRETE
- CONT. CONTINUOUS
- CS CONVENIENCE SHELF
- CJ CONTROL JOINT
- CWT CERAMIC WALL TILE
- CW COMPLETE WITH DOWN
- DN EMERGENCY PUSH BUTTON.
- EMP EXISTING
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- GBL GRAB BAR L SHAPE
- GN GENDER NEUTRAL
- GYP. GYPSUM BOARD
- HD HAND DRYER
- HORZ. HORIZONTAL
- HORZ. HORIZONTAL
- LAP LAY IN ACOUSTIC PANEL
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- NIC NOT IN CONTRACT
- PREFIN PREFINISHED
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- SD SOAP DISPENSER
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- TM TILT MIRROR
- TD TOILET PAPER DISPENSER
- TYP. TYPICAL
- WR WASHROOM

1	ISSUED FOR TENDER	03 17 25
NO	ISSUED	DATE

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CERTIFICATE OF PRACTICE #4292

ASSUMPTION CATHOLIC SECONDARY SCHOOL GN. WR. RENOVATION

3230 WOODWARD AVENUE, BURLINGTON, ON L7N 3P1

LEGAL DESCRIPTION

REGISTERED PLAN 291, LOT 11, PART OF LOT 13 CITY OF BURLINGTON



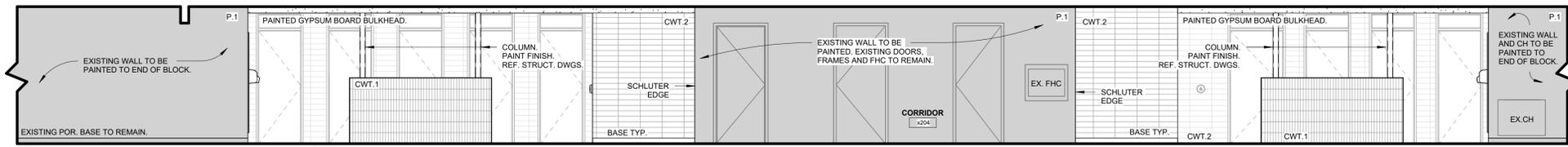
802 DURURY LANE, (905) 632-6300 BURLINGTON ON L7R 2Y2 AbrahamsC@hcdsb.org

THIRD FLOOR WASHROOM

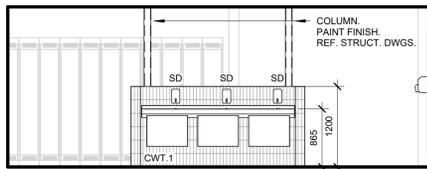
HOSSACK ARCHITECTURE

105 - 1039 IRONDAK WAY OAKVILLE, ON N 4LH 3V8 (905) 879-0234 info@hossackarch.com

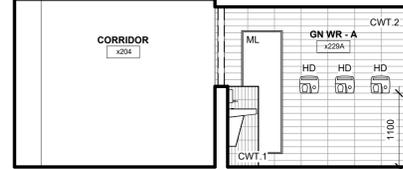
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CHECKED	PL		
PRINT DATE	3/17/2025 2:02:22 PM		
REVIT FILE	T:\2024\24116\02\Revit\RVT		



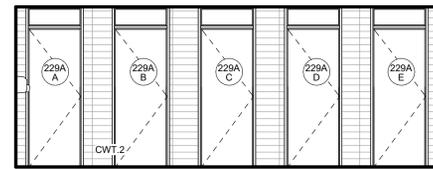
1 SECOND FLOOR CORRIDOR x204
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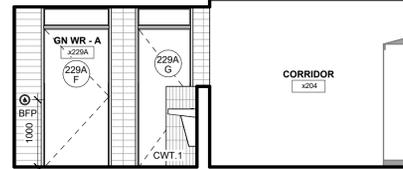
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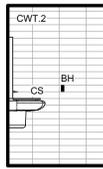
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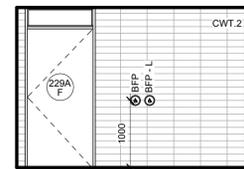
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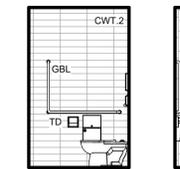
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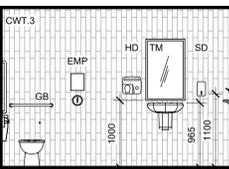
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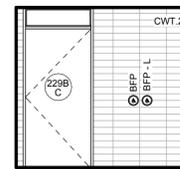
7 BF STALL x220F - B
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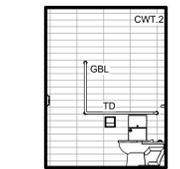
8 BF STALL x220F - C
SCALE: 1:50



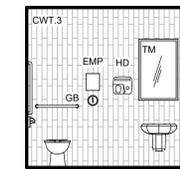
9 BF STALL x220F - D
SCALE: 1:50



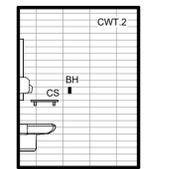
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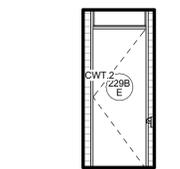
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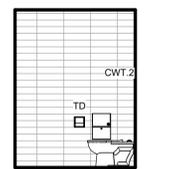
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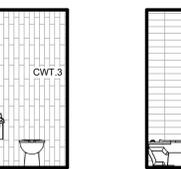
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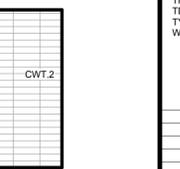
22 TYP. STALL - A
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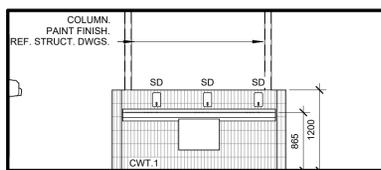
23 TYP. STALL - B
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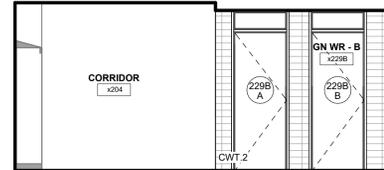
24 TYP. STALL - C
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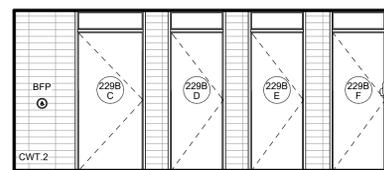
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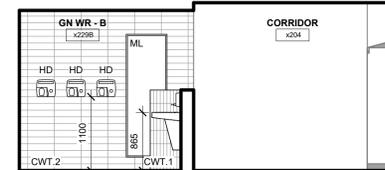
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15 GN WR x219 - B
SCALE: 1:50

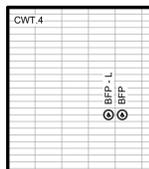


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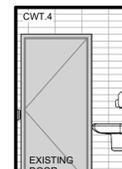


17 GN WR x219 - D
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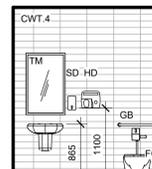
THIRD FLOOR STAFF BF WR



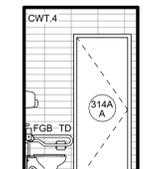
18 BF WR 314 - A
SCALE: 1:50



19 BF WR 314 - B
SCALE: 1:50

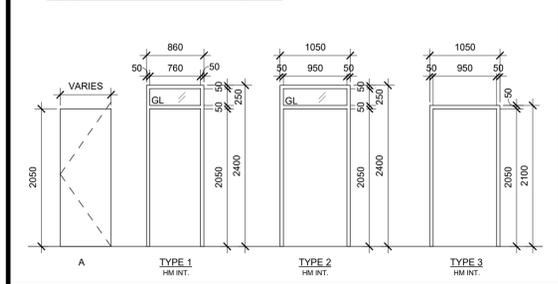


20 BF WR 314 - C
SCALE: 1:50



21 BF WR 314 - D
SCALE: 1:50

DOOR TYPE AND FRAME LEGEND



Project No. 24116 Renovation to Assumption Catholic Secondary School Room Finish Schedule Section 09 91 30 Page 1 of 2

NO.	ROOM FINISH SCHEDULE NAME	FLOOR		WALL		CEILING		REMARKS
		FIN.	BASE	MATL.	FIN.	MATL.	FIN. HEIGHT(mm)	
SECOND FLOOR								
x204	CORRIDOR	EX.	EX.	EX. CB	P	EX. LAP	-	EXIST. RE/RE CEILING TILES AS REQUIRED FOR NEW ELEC. PAINT EXISTING WALL ON WASHROOM SIDE.
x229A	GN WR - A	POR.	POR.	CB	CWT	GYP.	P	2385
AA	WR STALL	POR.	POR.	CB	CWT	GYP.	P	2385
AB	WR STALL	POR.	POR.	CB	CWT	GYP.	P	2385
AC	WR STALL	POR.	POR.	CB	CWT	GYP.	P	2385
AD	WR STALL	POR.	POR.	CB	CWT	GYP.	P	2385
AE	WR STALL	POR.	POR.	CB	CWT	GYP.	P	2385
AF	WR STALL	POR.	POR.	CB	CWT	GYP.	P	2385
AG	WR STALL	POR.	POR.	CB	CWT	GYP.	P	2385
x229B	GN WR - B	POR.	POR.	CB	CWT	GYP.	P	2385
BA	WR STALL	POR.	POR.	CB	CWT	GYP.	P	2385
BB	WR STALL	POR.	POR.	CB	CWT	GYP.	P	2385
BC	WR STALL	POR.	POR.	CB	CWT	GYP.	P	2385
BD	WR STALL	POR.	POR.	CB	CWT	GYP.	P	2385
BE	WR STALL	POR.	POR.	CB	CWT	GYP.	P	2385
BF	WR STALL	POR.	POR.	CB	CWT	GYP.	P	2385
THIRD FLOOR								
x314	BF WASHROOM	POR.	POR.	EX. CB	CWT	GYP.	P	2600
x314A	IT CLOSET	POR.	POR.	EX. CB	P	GYP.	P	2600

GENERAL NOTES: ALL EXISTING FLOORING AND WALL TILE TO BE REMOVED IN AREAS OF RENOVATION.

Project No. 24116 Renovation to Assumption Catholic Secondary School Door Schedule Section 08 11 15 Page 1 of 2

DOOR #	ROOM NAME	WIDTH	HEIGHT	FIRE	H.T.	TYPE	FRAME			REMARKS
							MATL.	FIN	DC	
SECOND FLOOR										
229A A	WR STALL AA	760	2050	-	-	A	WOOD	PLAM	-	1 HM P - TG
229A B	WR STALL AB	760	2050	-	-	A	WOOD	PLAM	-	1 HM P - TG
229A C	WR STALL AC	760	2050	-	-	A	WOOD	PLAM	-	1 HM P - TG
229A D	WR STALL AD	760	2050	-	-	A	WOOD	PLAM	-	1 HM P - TG
229A E	WR STALL AE	760	2050	-	-	A	WOOD	PLAM	-	1 HM P - TG
229A F	WR STALL AF	950	2050	-	-	A	WOOD	PLAM	-	2 HM P Y TG B/F DOOR OPERATOR, ELECTRIC STRIKE/ POWER DOOR LOCK WITH OCCUPANCY LIGHT
229A G	WR STALL AG	760	2050	-	-	A	WOOD	PLAM	-	1 HM P - TG
229B A	WR STALL BA	760	2050	-	-	A	WOOD	PLAM	-	1 HM P - TG
229B B	WR STALL BB	760	2050	-	-	A	WOOD	PLAM	-	1 HM P - TG
229B C	WR STALL BC	950	2050	-	-	A	WOOD	PLAM	-	2 HM P Y TG B/F DOOR OPERATOR, ELECTRIC STRIKE/ POWER DOOR LOCK WITH OCCUPANCY LIGHT
229B D	WR STALL BD	760	2050	-	-	A	WOOD	PLAM	-	1 HM P - TG
229B E	WR STALL BE	760	2050	-	-	A	WOOD	PLAM	-	1 HM P - TG
229B F	WR STALL BF	760	2050	-	-	A	WOOD	PLAM	-	1 HM P - TG
314 A	BF WR	EX.	EX.	-	-	-	-	-	-	EX-HM P - - B/F DOOR OPERATOR, ELECTRIC STRIKE/ POWER DOOR LOCK WITH OCCUPANCY LIGHT. REMOVE EXISTING LOCK SET TO BE RELOCATED.
314A A	UTILITY CL	760	2050	-	-	A	WOOD	PLAM	-	3 HM P - TG REUSE RELOCATED LOCK SET FROM CORRIDOR DOOR.

ABBREVIATION LEGEND

AFF	ABOVE FINISH FLOOR
BF	BARRIER FREE
BFP	BARRIER FREE PUSH BUTTON
BFP-L	BARRIER FREE PUSH BUTTON-LOCK
BH	BREAK-AWAY HOOK
CONC.	CONCRETE
CONT.	CONTINUOUS
CS	CONVENIENCE SHELF
CJ	CONTROL JOINT
CWT	CERAMIC WALL TILE
CW	COMPLETE WITH
DN	DOWN
EMP	EMERGENCY PUSH BUTTON
EX.	EXISTING
EXT.	EXTERIOR
FD	FLOOR DRAIN
GB	GRAB BAR
GBL	GRAB BAR L SHAPE
GN	GENDER NEUTRAL
GYP.	GYP. BOARD
HD	HAND DRYER
HORZ.	HORIZONTAL
LAP	LAY IN ACOUSTIC PANEL
LF	LIGHT FIXTURE
NIC	NOT IN CONTRACT
PREFIN	PREFINISHED
POR	PORCELAIN
RM	ROOM
SD	SOAP DISPENSER
SN	NAPKIN DISPOSAL
SND	SANITARY NAPKIN DISPENSER
TM	TILT MIRROR
TD	TOILET PAPER DISPENSER
TYP.	TYPICAL
WR	WASHROOM

1	ISSUED FOR TENDER	03 17 25
NO.	ISSUED	DATE

DRAWINGS ARE NOT TO BE SCALED. CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS ON THE PROJECT, AND MUST REPORT ANY DISCREPANCIES TO THE CONSULTANTS BEFORE PROCEEDING WITH THE WORK. THE USE OF THIS DRAWING OR PART THEREOF IS FORBIDDEN WITHOUT THE WRITTEN APPROVAL OF THE CONSULTANTS.



CERTIFICATE OF PRACTICE #4292

ASSUMPTION CATHOLIC SECONDARY SCHOOL GN. WR. RENOVATION

3230 WOODWARD AVENUE, BURLINGTON, ON L7N 3P1
LEGAL DESCRIPTION
REGISTERED PLAN 291, LOT 11, PART OF LOT 13 CITY OF BURLINGTON



902 DURURY LANE, (905) 632-6300
BURLINGTON ON L7R 2Y2 AbrahamsC@hcdsb.org

INTERIOR ELEVATIONS & SCHEDULES



103 - 1039 IRONDALE WAY
OAKVILLE, ON L6H 3V8
(905) 919-3334 info@hossack.com

SCALE	PROJECT
1:50	24116
DATE	MARCH 2025
DRAWN	AM
CHECKED	PL
PRINT DATE	3/17/2025 2:02:26 PM
REVIT FILE	T:\2024\24116\02\Revit\RVT

LEGEND - PLUMBING	
REFER	DESCRIPTION
ALL SYMBOLS MAY NOT APPEAR ON DRAWINGS.	
----	DOMESTIC COLD WATER PIPING
----	DOMESTIC HOT WATER PIPING
----	DOMESTIC HOT WATER REIRC. PIPING
----	VENT PIPING
----	SANITARY PIPING ABOVE FLOOR
----	SANITARY PIPING BELOW GRADE OR FLOOR
----	PIPING TO BE REMOVED
----	HEAT TRACED PIPING
----	CONNECTION OF NEW AND EXISTING PIPING
----	CAPPED PIPE
FD	FLOOR DRAIN
FFD	FUNNEL FLOOR DRAIN
HD	HUB DRAIN
RD	ROOF DRAIN
RD	ROOF DRAIN ABOVE
CO	CLEANOUT IN FLOOR
CO	CLEANOUT IN LINE OR STACK
W	WATER METER
IV	ISOLATION VALVE
CBV	CIRCUIT BALANCING VALVE
CV	CHECK VALVE
S	STRAINER
RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
3-WV	3-WAY VALVE
TRV	TEMPERATURE & PRESSURE RELIEF VALVE
CTE	CONNECT TO EXISTING
U	UNION
PG	PRESSURE GAUGE
T	THERMOMETER
P	PUMP
PD	PIPE DOWN
PU	PIPE UP
PU&D	PIPE UP & DOWN
PT	PIPE TEE
E	DENOTES EXISTING
E	EXISTING PIPING
FE	FIRE EXTINGUISHER - SURFACE MOUNTED

MECHANICAL DRAWING LIST	
M1.0	LEGENDS, GENERAL NOTES, EQUIPMENT SCHEDULE
M1.1	KEY PLANS
M2.0	DEMOLITION PLUMBING AND DRAINAGE LAYOUT- PARTIAL GROUND FLOOR REFLECTED CEILING
M2.1	DEMOLITION HVAC LAYOUT- PARTIAL GROUND FLOOR REFLECTED CEILING
M2.2	DEMOLITION SPRINKLERS LAYOUT- PARTIAL GROUND FLOOR REFLECTED CEILING
M3.0	DEMOLITION PLUMBING AND DRAINAGE LAYOUT- PARTIAL SECOND FLOOR
M3.1	DEMOLITION HVAC LAYOUT- PARTIAL SECOND FLOOR
M3.2	DEMOLITION SPRINKLERS LAYOUT- PARTIAL SECOND FLOOR
M3.3	DEMOLITION HVAC LAYOUT- PARTIAL SECOND FLOOR LIBRARY WORK ROOM AND WASHROOM
M3.4	DEMOLITION SPRINKLERS LAYOUT- PARTIAL SECOND FLOOR LIBRARY WORK ROOM AND WASHROOM
M4.0	DEMOLITION PLUMBING AND DRAINAGE LAYOUT- PARTIAL THIRD FLOOR
M4.1	DEMOLITION HVAC LAYOUT- PARTIAL THIRD FLOOR
M4.2	DEMOLITION SPRINKLERS LAYOUT- PARTIAL THIRD FLOOR
M5.0	PROPOSED PLUMBING AND DRAINAGE LAYOUT- PARTIAL GROUND FLOOR REFLECTED CEILING
M5.1	PROPOSED HVAC LAYOUT- PARTIAL GROUND FLOOR REFLECTED CEILING
M5.2	PROPOSED SPRINKLERS LAYOUT- PARTIAL GROUND FLOOR REFLECTED CEILING
M5.3	PROPOSED HVAC LAYOUT- PARTIAL SECOND FLOOR LIBRARY WORK ROOM AND WASHROOM
M5.4	PROPOSED SPRINKLERS LAYOUT- PARTIAL SECOND FLOOR LIBRARY WORK ROOM AND WASHROOM
M6.0	PROPOSED PLUMBING AND DRAINAGE LAYOUT- PARTIAL SECOND FLOOR
M6.1	PROPOSED HVAC LAYOUT- PARTIAL SECOND FLOOR
M6.2	PROPOSED SPRINKLERS LAYOUT- PARTIAL SECOND FLOOR
M7.0	PROPOSED PLUMBING AND DRAINAGE LAYOUT- PARTIAL THIRD FLOOR
M7.1	PROPOSED HVAC LAYOUT- PARTIAL THIRD FLOOR
M7.2	PROPOSED SPRINKLERS LAYOUT- PARTIAL THIRD FLOOR
M8.0	MECHANICAL DETAILS
M9.0	MECHANICAL SPECIFICATIONS-1
M9.1	MECHANICAL SPECIFICATIONS-2

GENERAL NOTES

REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR COORDINATION OF GRILLES, DIFFUSERS AND OTHER ELEMENTS

IN ALL INSTANCES THE NEED FOR ACCESS DOORS IN GWB CEILINGS SHOULD BE AVOIDED IF POSSIBLE. WHERE INSTALLATION OF COMPONENTS WHICH REQUIRE ACCESS CANNOT BE AVOIDED, SUBMIT (DIMENSIONED) LAYOUT ON ARCHITECTURAL REFLECTED CEILING PLANS TO CONSULTANTS FOR APPROVAL PRIOR TO INSTALLATION OF COMPONENT.

EXISTING ITEMS TO BE REMOVED REMAIN THE PROPERTY OF THE OWNER AND SHALL BE DELIVERED TO A LOCATION ON SITE DESIGNATED BY THE OWNER. IF THE OWNER DECLARES NO INTEREST IN THE REMOVED ITEMS, ASSUME OWNERSHIP AND REMOVE THE ITEMS FROM THE SITE.

REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATION FOR PHASING AND STAGING.

PLUMBING NOTES

- CONTRACTOR IS TO VERIFY CONNECTION POINTS TO SERVICES WITH OTHER TRADES ON SITE.
- CONTRACTOR IS TO CLEAR DUCTWORK WHEN INSTALLING NEW PIPING. CLEARANCES TO BE VERIFIED ON SITE.
- PROVIDE A CLEANOUT AT THE BOTTOM OF EVERY SOIL AND WASTE STACK THAT CONNECTS TO A HORIZONTAL DRAINAGE PIPE.
- PROVIDE A CLEANOUT FROM EACH PLUMBING FIXTURE WHERE REQUIRED BY BUILDING CODE, PART 7 - PLUMBING.
- CHECK AND VERIFY LOCATION OF ALL PIPES, DUCTS AND EQUIPMENT WITH ALL OTHER TRADES TO PREVENT INTERFERENCE. REMOVAL OR RELOCATION OF ANY SUCH WORK INTERFERING WITH WORK OF OTHER TRADES IS THE RESPONSIBILITY OF THE MECHANICAL TRADE CONCERNED UNLESS OTHERWISE APPROVED IN WRITING.
- ALL PLUMBING FIXTURES INCLUDING FLOOR DRAINS (HUB, FUNNEL FLOOR DRAINS, TRENCH DRAINS) TO BE TRAPPED AND VENTED AS REQUIRED BY BUILDING CODE, PART 7 - PLUMBING.
- FOR MOUNTING HEIGHT OF ALL PLUMBING FIXTURES REFER TO ARCHITECTURAL DRAWINGS.
- PROVIDE ACCESS DOOR FOR ALL VALVES LOCATED ABOVE DRY WALL CEILING.
- PROVIDE ACCESS DOOR FOR ALL CLEANOUTS LOCATED ABOVE DRY WALL CEILING.
- IN ALL INSTANCES THE NEED FOR ACCESS DOOR IN GWB CEILINGS SHOULD BE AVOIDED IF POSSIBLE. WHERE INSTALLATION OF COMPONENTS WHICH REQUIRE ACCESS CANNOT BE AVOIDED, SUBMIT (DIMENSIONED) LAYOUT ON ARCHITECTURAL REFLECTED CEILING PLANS TO CONSULTANTS FOR APPROVAL PRIOR TO INSTALLATION OF COMPONENT.
- ALL DISTURBED SERVICES AFTER PIPE REMOVAL OR ROUTING TO BE FILLED-IN WITH APPROPRIATE MATERIAL TO MAINTAIN FIRE SEPARATION AND PATCHED TO MATCH EXISTING OR NEW FINISHES.
- CONTRACTOR IS TO REMOVE ALL OBSOLETE PIPING WHEREVER POSSIBLE.
- CONTRACTOR IS TO ENSURE THAT ALL EXISTING PIPING SERVING EXISTING AREAS REMAIN IN SERVICE UNTIL THESE AREAS ARE RECONNECTED TO NEW SERVICES. ONLY THEN OBSOLETE PIPING IS TO BE REMOVED AS SHOWN.
- BEFORE CUTTING ANY HOLES THROUGH THE EXISTING SLAB REFER TO EXISTING STRUCTURAL DRAWINGS FOR GENERAL REQUIREMENTS.
- AFTER PIPE REMOVAL ALL EXISTING OPENINGS IN FIRE SEPARATION ARE TO BE FILLED-IN TO MAINTAIN INTEGRITY OF THAT FIRE SEPARATION.
- RECONNECT VENTS FROM EXISTING EQUIPMENT AND PLUMBING FIXTURES WHICH ARE TO REMAIN TO NEW VENTS AS REQUIRED.
- PROVIDE SIGN IDENTIFYING LOCATION OF ALL VALVES INSTALLED IN CEILING SPACE.
- ALL WATER, SANITARY, SEWER AND VENT COPPER PIPING WITH SOLDER JOINTS SHALL BE LEAD FREE. DO NOT INSTALL WATER LINES IN OUTSIDE WALL WHERE THEY MAY FREEZE, UNLESS BOTH THE WALL AND THE PIPES ARE PROPERLY INSULATED.
- INSTALL SHUT-OFF VALVES AT EACH PLUMBING FIXTURE AND EACH EQUIPMENT CONNECTION.
- REFER TO ARCHITECTURAL FOR OWNER SUPPLIED EQUIPMENT. CONFIRM ALL MECHANICAL REQUIREMENTS AND PROVIDE TO SUIT.

LEGEND - HVAC	
REFER	DESCRIPTION
ALL SYMBOLS MAY NOT APPEAR ON DRAWINGS.	
E(NAME)	EXISTING PIPING TO REMAIN
PS	POSITIVE PRESSURE (SUPPLY) DUCT UP
PR	POSITIVE PRESSURE (SUPPLY) DUCT UP
NR	NEGATIVE PRESSURE (RETURN) DUCT UP
PSD	POSITIVE PRESSURE (SUPPLY) DUCT DOWN
PRD	POSITIVE PRESSURE (SUPPLY) DUCT DOWN
NRD	NEGATIVE PRESSURE (RETURN) DUCT DOWN
EXD	EXISTING DUCTWORK TO BE REMOVED
EXD	EXISTING DUCTWORK TO REMAIN
ND	NEW DUCTWORK
SAD	SUPPLY AIR DIFFUSER (SQUARE)
SAD	SUPPLY AIR DIFFUSER (ROUND)
SG	SIDEWALL GRILLE
RE	RETURN/EXHAUST GRILLE
FR	FULL RADIUS DUCT CONNECTION
TD	TAP-IN DUCT CONNECTION
RD	ROUND DUCT CONNECTION
TV	TURNING VANES
FD	FIRE DAMPER
FD	EXISTING FIRE DAMPER
MD	MOTORIZED DAMPER
EMD	EXISTING MOTORIZED DAMPER
AD	ACCESS DOOR
BD	BALANCING DAMPER
OBDD	OPPOSED BLADE BALANCING DAMPER
OED	OPEN ENDED DUCT
TH	THERMOSTAT
CAP	CAP

REFER	AREA SERVED	AIR FLOW CFM	E.S.P. IN.W.C.	MOTOR SIZE HP	ELECTRICAL		DRIVE	FAN SPEED RPM	UNIT WEIGHT LBS	SOUND LEVEL dBA	CONTROL	MANUFACTURER, MODEL AND ACCESSORIES
					VOLTAGE							
EF-1	UTR A101	100	0.5		120V/1ø/60Hz		DIRECT	900	-	2.7	SWTCH	COOK GEMINI GC-144; COMPLETE WITH WHITE PLASTIC GRILLE, INTEGRAL BACKDRAFT DAMPER AND ISOLATOR KIT.

NOTES:
 1. ALL FANS SHALL INCLUDE VIBRATION ISOLATION AND STARTERS.
 2. REFER TO THE CONTROL SCHEMATICS AND SEQUENCES OF OPERATION.
 3. ACCEPTABLE MANUFACTURERS SUBJECT TO SHOP DRAWING REVIEW: COOK, CARNES, GREENHECK, REVERSONMATIC, BROAN.

PLUMBING FIXTURE CONNECTION SCHEDULE												
TAG	FIXTURE NAME	SANITARY		VENT		DCWS		DHWS		TEMPERED		REMARKS
		MM	INS	MM	INS	MM	INS	MM	INS	MM	INS	
W1	GENERAL FLOOR MOUNTED FLUSH VALVE WATER CLOSET	100	4	75	3	32	1.25	-	-	-	-	AMERICAN STANDARD MADERA 2234 001,(KOHLER WELCOMME K-4350, MANSFIELD BALTIC 1311NS, ZURN Z5655-BWL), VITREOUS CHINA, SIPHON JET, ELONGATED RIM, TOP SPUD FOR FLUSH VALVE, BOLT CAP, BOTTOM OUTLET, FLOOR MOUNTED, 10" OR 12" ROUGH IN, MIN 2" TRAP WAY, MAX 6 LIT PER FLUSH TRIM: DELTA 81T201-5 (ZURN Z6000AV-WS1, SLOAN 111-1.6), EXPOSED POLISHED CHROME, EXTERNALLY ADJUSTABLE, DIAPHRAGM TYPE FLUSH VALVE WITH 1" SCREWDRIVER ANGLE STOP, OSCILLATING HANDLE FLUSH CONNECTION AND COUPLING FOR 40 MM, TOP SPUD, WALL AND SPUD ESCUTCHEONS,SEAT BUMPER AND VACUUM BREAKER, FLUSH CYCLE SET FOR 6 LIT PER FLUSH,SEAT CENTOCO AM500STSCSS
W2	BARRIER FREE FLOOR MOUNTED FLUSH VALVE WATER CLOSET	100	4	75	3	32	1.25	-	-	-	-	AMERICAN STANDARD MADERA 2234 001,(KOHLER WELCOMME K-4350, MANSFIELD BALTIC 1311NS, ZURN Z5655-BWL), VITREOUS CHINA, SIPHON JET, ELONGATED RIM, TOP SPUD FOR FLUSH VALVE, BOLT CAP, BOTTOM OUTLET, FLOOR MOUNTED, 10" OR 12" ROUGH IN, MIN 2" TRAP WAY, MAX 6 LIT PER FLUSH TRIM: DELTA 81T201-5 (ZURN Z6000AV-WS1, SLOAN 111-1.6), EXPOSED POLISHED CHROME, EXTERNALLY ADJUSTABLE, DIAPHRAGM TYPE FLUSH VALVE WITH 1" SCREWDRIVER ANGLE STOP, OSCILLATING HANDLE FLUSH CONNECTION AND COUPLING FOR 40 MM, TOP SPUD, WALL AND SPUD ESCUTCHEONS,SEAT BUMPER AND VACUUM BREAKER, FLUSH CYCLE SET FOR 6 LIT PER FLUSH,SEAT CENTOCO AM500STSCSS, C/W BACKREST
L1	WALL MOUNTED LAVATORY C/W CONCEALED FLOOR MOUNTED WALL CARRIER (HARDWIRE SENSOR)	50	2	32	1.25	13	0.50	13	0.50	13	0.5	AMERICAN STANDARD MURRO, KOHLER, ZURN, WALL MOUNTED, VITREOUS CHINA, LOW SHELF, WITH INTEGRAL BACK, CONTOURED FRONT, SHALLOW FRONT BASIN,FRONT OVERFLOW, SOAP DEPRESSIONS, C/W CONCEALED FLOOR MOUNTED WALL CARRIER (HARDWIRE SENSOR) MTD± 600 AFF (COORDINATE INSTALL HEIGHT WITH ARCH DWG ELEVATION), SUPPLY OPENINGS ON 4" CENTRES, CONCEALED SUPPORTS, SIZES: 25"x21-1/2", WITH KNEE GUARD AND FLOOR MOUNTED CONCEALED WALL CARRIER COMPLETE, HARDWIRE ELECTRONIC FAUCET. CAST BRASS ONE PIECE BODY WITH INTEGRAL WATER PROOF INFRARED SENSOR AND CONNECTOR. ADJUSTABLE SENSING RANGE 3" TO 15" AND TIME OUT 15 TO 75 SECONDS CHROME FINISH. VANDAL RESISTANT AERATOR HAVING INTEGRAL FLOW CONTROL FOR 1.5 GPM @ 60PSI MAX. UNDER COUNTER STAINLESS STEEL RECESSED HOUSING, SURFACE MOUNTED HOUSING FOR SOLENOID AND CONTROLLER. SENSOR ACTIVATES IN PRESENCE OF PERSON'S HANDS IN LAVATORY C/W PLUG IN TRANSFORMER. ACCEPTABLE ALTERNATE MATCHING THE SPECIFICATIONS ARE DELTA591T02030, MOEN COMMERCIALB301-AC, ZURNZ6915-HW6-XL.
L2	BARRIER FREE WALL MOUNTED LAVATORY C/W CONCEALED FLOOR MOUNTED WALL CARRIER (HARDWIRE SENSOR)	50	2	32	1.25	13	0.50	13	0.50	13	0.5	AMERICAN STANDARD PENLYN 0373.050 KOHLER CHESAPEAKE K-1728 ZURN Z535, WALL MOUNTED, VITREOUS CHINA, LOW SHELF, WITH INTEGRAL BACK, CONTOURED FRONT, SHALLOW FRONT BASIN,FRONT OVERFLOW, SOAP DEPRESSIONS, C/W CONCEALED FLOOR MOUNTED WALL CARRIER (HARDWIRE SENSOR) MTD± 600 AFF (COORDINATE INSTALL HEIGHT WITH ARCH DWG ELEVATION), SUPPLY OPENINGS ON 4" CENTRES, CONCEALED SUPPORTS, SIZES: 27"x20", HARDWIRE ELECTRONIC FAUCET. CAST BRASS ONE PIECE BODY WITH INTEGRAL WATER PROOF INFRARED SENSOR AND CONNECTOR. ADJUSTABLE SENSING RANGE 3" TO 15" AND TIME OUT 15 TO 75 SECONDS CHROME FINISH. VANDAL RESISTANT AERATOR HAVING INTEGRAL FLOW CONTROL FOR 1.5 GPM @ 60PSI MAX. UNDER COUNTER STAINLESS STEEL RECESSED HOUSING, SURFACE MOUNTED HOUSING FOR SOLENOID AND CONTROLLER. SENSOR ACTIVATES IN PRESENCE OF PERSON'S HANDS IN LAVATORY C/W PLUG IN TRANSFORMER. ACCEPTABLE ALTERNATE MATCHING THE SPECIFICATIONS ARE DELTA591T02030, MOEN COMMERCIALB301-AC, ZURNZ6915-HW6-XL.
FD	FLOOR DRAIN	50	2	50	2	-	-	-	-	-	-	REFER TO SPECIFICATIONS
S-1	DELUXE WALL MOUNTED HAND WASH AND BOTTLE FILLER TROUGH	50	2	32	1.25	13	0.50	13	0.50	13	0.5	ACRON'S STAINLESS STEEL DELUXE WALL MOUNTED HAND WASH TROUGH DSW390, 3 USER, 90" WIDE, DAISY STRAINER WITH TAILPIECE, 1-1/2" P-TRAP WITH ASSEMBLY CHROME PLATED BRASS, 3 NOS. PS1000-PS PUMP SOAP DISPENSER (PROVIDED BY THE SCHOOL BOARD), TRAP COVER. PRE-DRILLED DECK AT EACH STATION WITH 3 HOLE PUNCHING FOR A 4" CENTERSET FOR EITHER A FAUCET OR BOTTLE FILLER (SHIPPED LOOSE), 1-3/8"Ø KNOCKOUT FOR SOAP DISPENSER. A PRE-DRILLED BACK SPLASH RETURN FOR MOUNTING UNIT TO A REINFORCED WALL, 1-1/2" DRAIN ASSEMBLY, UNIT FABRICATED FROM 16 GAUGE 304 SS TYPE WITH EXPOSED SURFACE POLISHED TO A #4 SATIN FINISH. 3 NOS. COMPACT BOTTLE FILLER BF13C PUSH BUTTON, FAUCET SINGLE TEMP BATTERY POWERED SENSOR OPERATED FAUCET WITH STAINLESS STEEL"J" SPOUT AND DECK PLATE FOR 4" CENTERSET PUNCHING PROVIDED ON TROUGH, FAUCET TO MEET NSF AND LEAD-FREE STANDARDS AND INCLUDE A 0.5 GPM FLOW CONTROL, TRAP ENCLOSURE 3 NOS. 24" OF 16 GAUGE TYPE 304 SS WITH EXPOSED SURFACE POLISHED TO #4 STAIN FINISH, ENVIRO GLAZE POWDER COATED COLOR, 10" DIAMETER SELF STICKING, BRIGHT YELLOW "WASH YOUR HANDS" DECAL, INTEGRAL WATER PROOF INFRARED SENSOR AND CONNECTOR. ADJUSTABLE SENSING RANGE 3" TO 15" AND TIME OUT 15 TO 75 SECONDS CHROME FINISH,VANDAL RESISTANT AERATOR, UNDER COUNTER STAINLESS STEEL RECESSED HOUSING, SURFACE MOUNTED HOUSING FOR SOLENOID AND CONTROLLER. SENSOR ACTIVATES IN PRESENCE OF PERSON'S HANDS IN LAVATORY, CERTIFIED BY NATIONAL PLUMBING CODE OF CANADA ASME A112.19.3, UNIFORM PLUMBING CODE, SENSOR: ASME A112.18.1/CSA B125.1 AND UL 1951. ACCEPTABLE ALTERNATE MATCHING THE SPECIFICATIONS ARE METACRAFT INDUSTRIES, WILLOUGHBY INDUSTRIES, DELTA, MEON AND ZURN.
TSP	TRAP SEAL PRIMER	-	-	-	-	10/13	0.38/0.50	-	-	-	-	ONE - 10MM/0.38" PER FD, FFD, HD, PD

RETURN/ EXHAUST GRILLE SCHEDULE							
SYMBOL	SIZE MM x MM (IN. x IN.)	APPLICATION	NECK SIZE MMØ (INSØ)	AIRFLOW RANGE CFM	NC RANGE	MANUFACTURER AND MODEL (BASIS OF DESIGN: E.H. PRICE)	
R-1 CFM	E-1 CFM	300x300 (12x12)	CEILING GRILLE	-	<450	<30	80D
R-2 CFM	E-2 CFM	600x300 (24x12)	CEILING GRILLE	-	<800	<30	80D

NOTE(S): BASIS OF DESIGN IS E.H. PRICE. ACCEPTABLE ALTERNATES SUBJECT TO SHOP DRAWING REVIEW: TITUS, METALAIRE, KRUEGER.

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ISSUE OR REVISION		
No.	Description	Date
1	ISSUED FOR REVIEW	MAR 07 2025
2	ISSUED FOR TENDER	MAR 17 2025
3		
4		
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PROJECT:
ASSUMPTION CATHOLIC SECONDARY SCHOOL, GN. WR. RENO.
 3230 WOODWARD AVE, BURLINGTON, ONTARIO, L7N 3P1
 HALTON CATHOLIC DISTRICT SCHOOL BOARD



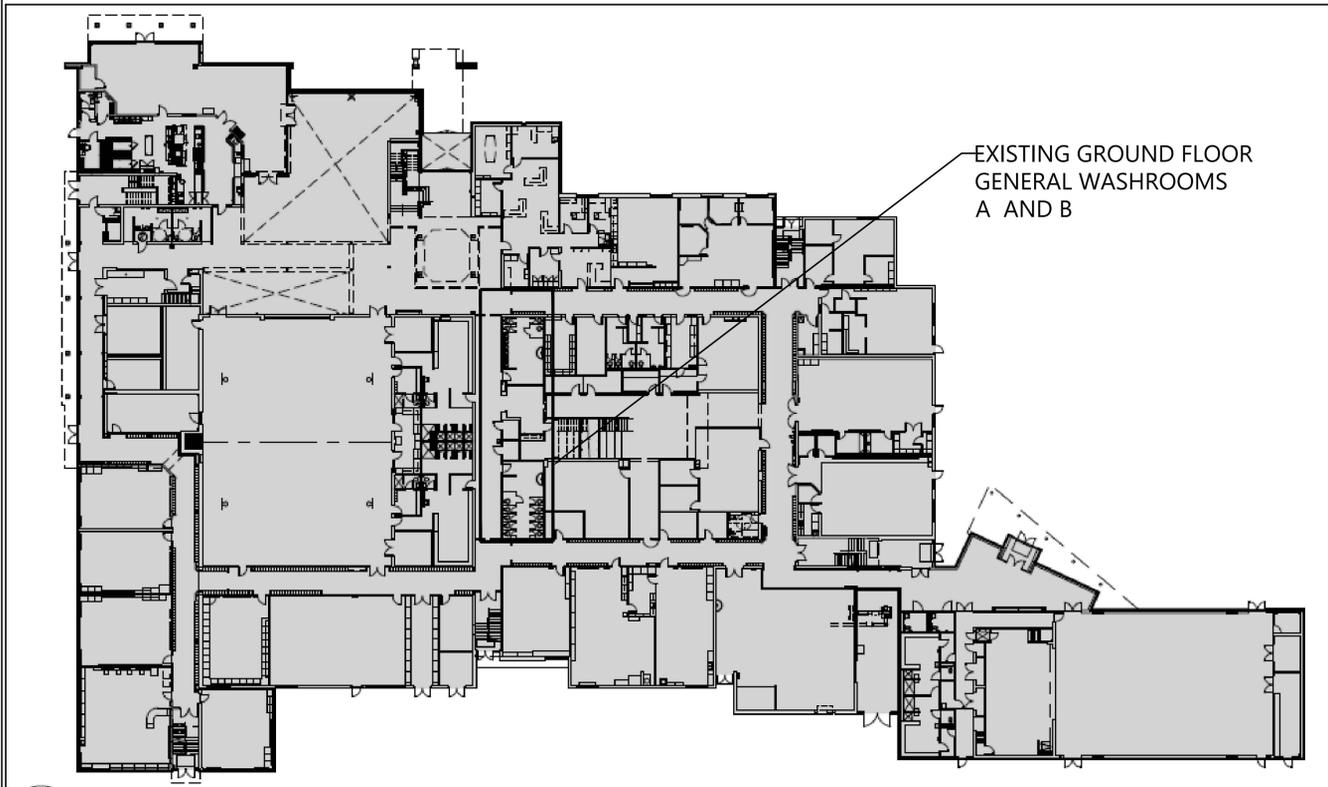
DWG TITLE:
LEGENDS, GENERAL NOTES, EQUIPMENT SCHEDULE



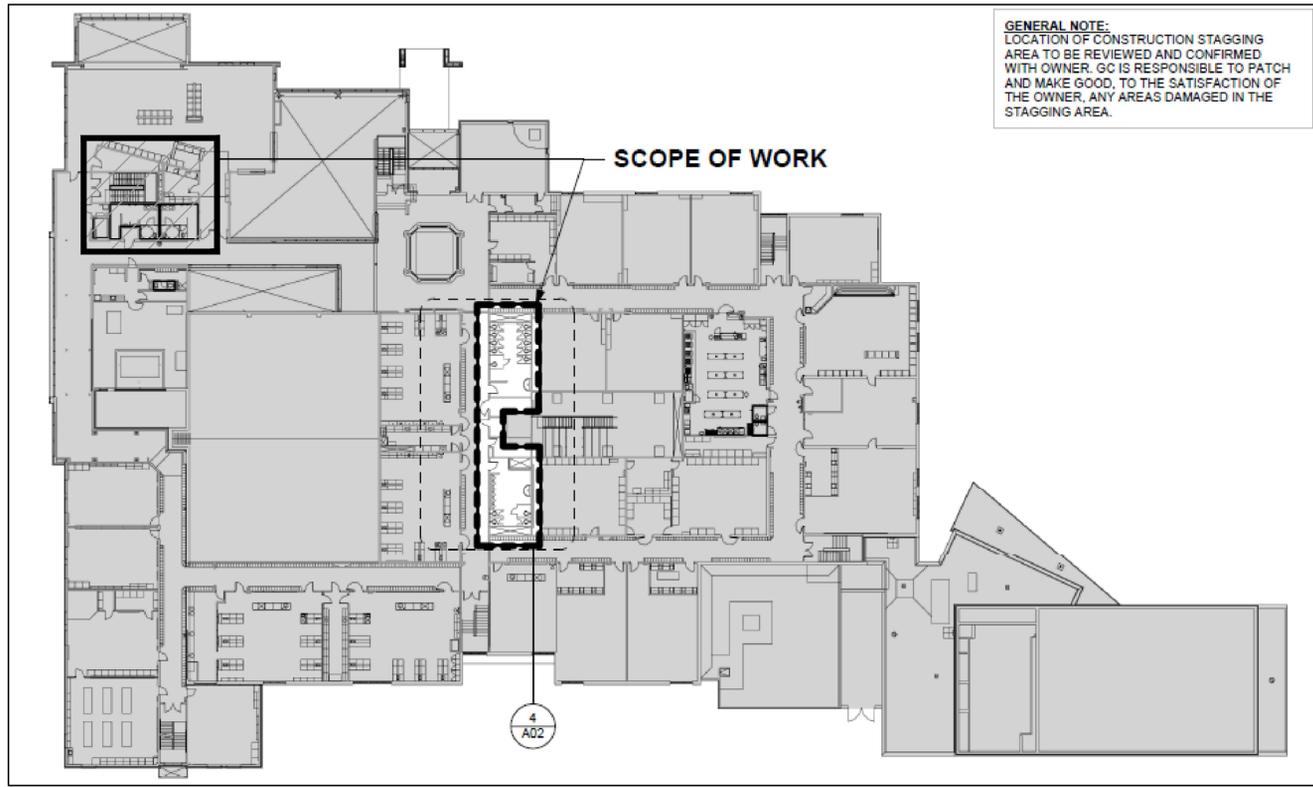
DATE:	MAR 2025
SCALE:	NTS
DRAWN BY:	MS
CHECKED BY:	MA
DWG STATUS:	TENDER
PROJECT No.:	2025-480
DRAWING No.:	M1.0
REVISION	

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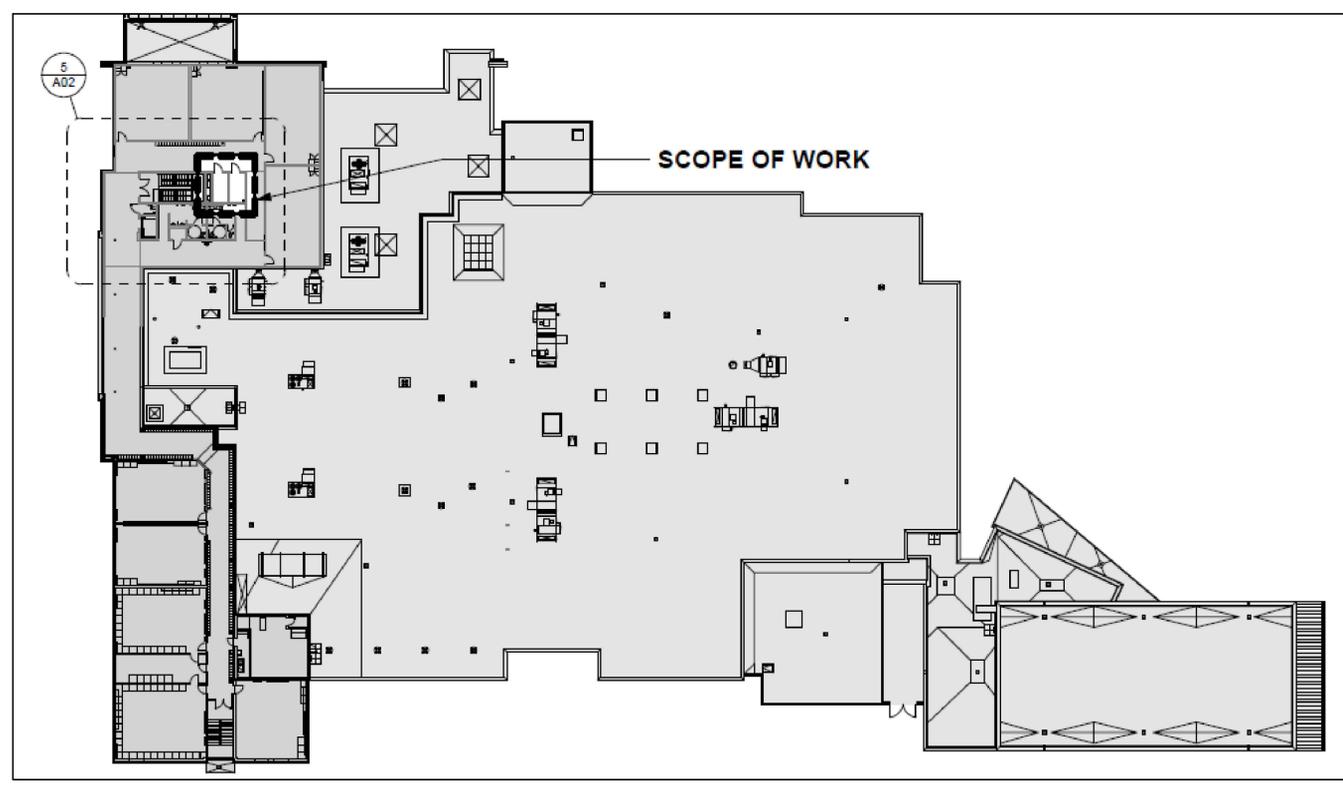


GROUND FLOOR



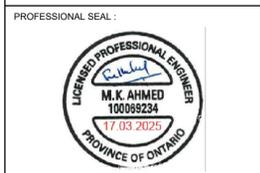
SECOND FLOOR

GENERAL NOTE:
 LOCATION OF CONSTRUCTION STAGGING AREA TO BE REVIEWED AND CONFIRMED WITH OWNER. GC IS RESPONSIBLE TO PATCH AND MAKE GOOD, TO THE SATISFACTION OF THE OWNER, ANY AREAS DAMAGED IN THE STAGGING AREA.



THIRD FLOOR

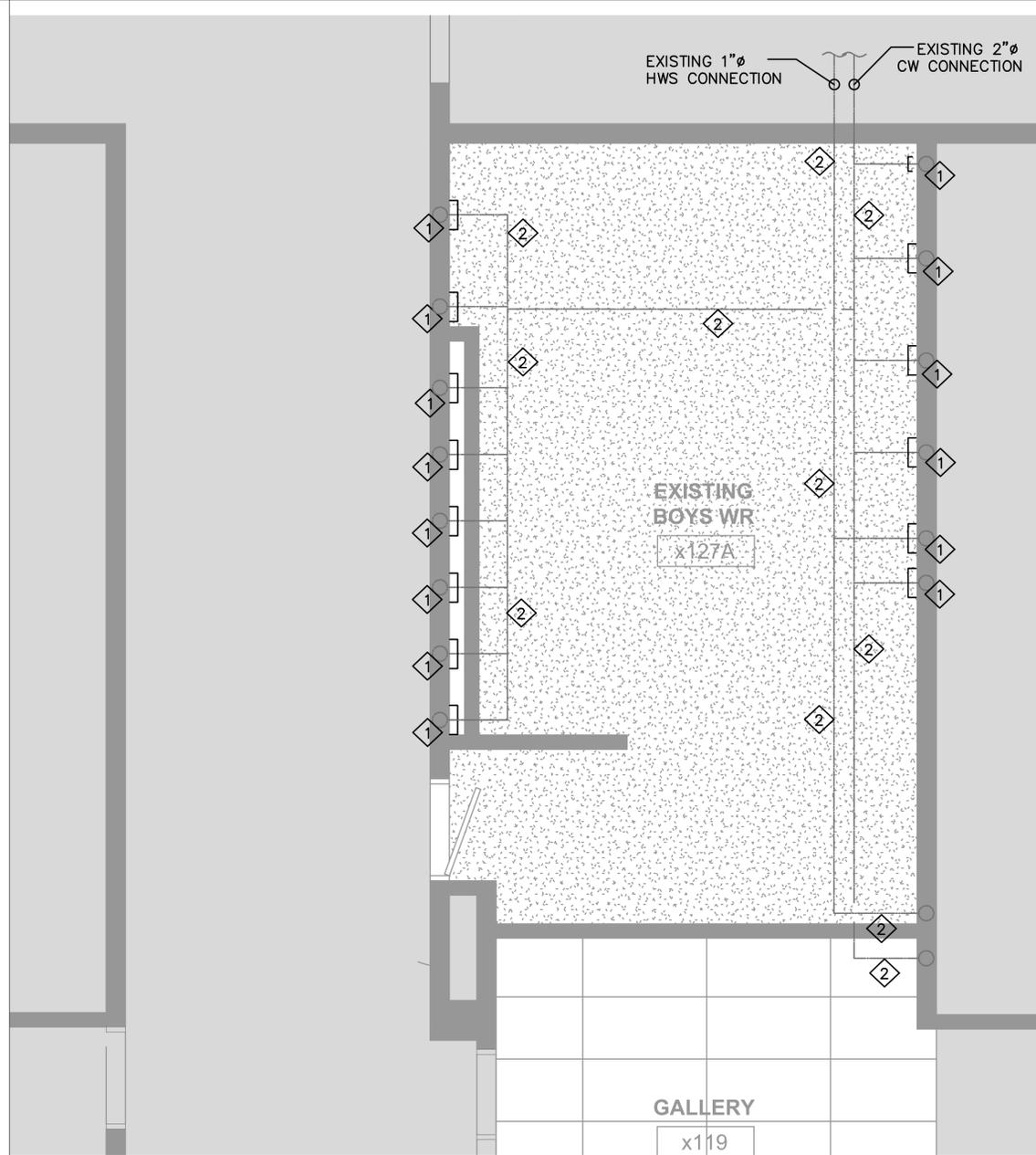
PROJECT:
ASSUMPTION CATHOLIC SECONDARY SCHOOL, GN. WR. RENO.
 3230 WOODWARD AVE, BURLINGTON, ONTARIO, L7N 3P1
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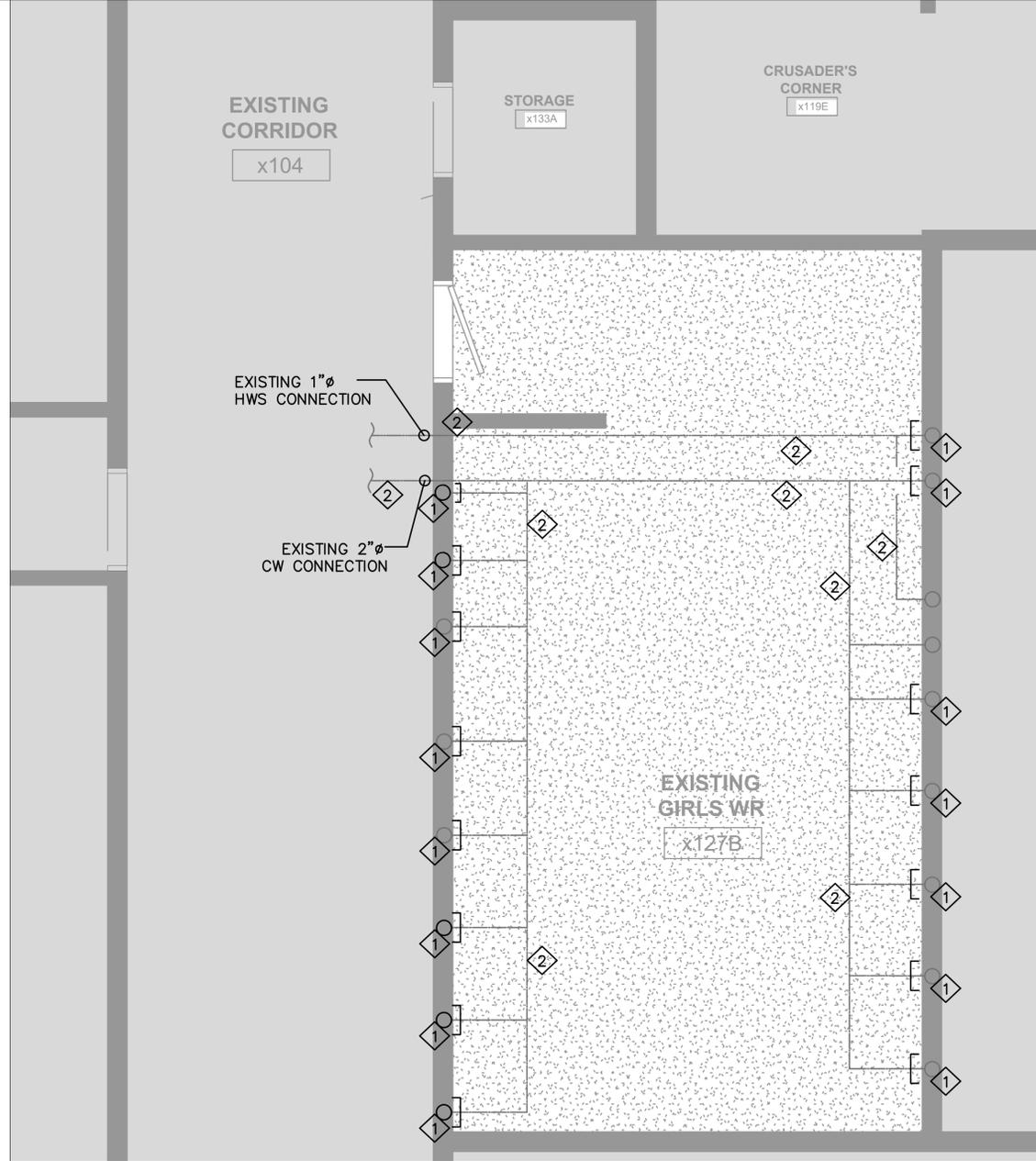
DWG TITLE:
KEY PLANS



DATE: MAR 2025
 SCALE: NTS
 DRAWN BY: MS
 CHECKED BY: MA
 DWG STATUS: **TENDER**
 PROJECT No.: **2025-480**
 DRAWING No.: M1.1 REVISION



1 DEMOLITION PLUMBING AND DRAINAGE PLAN—GROUND FLOOR GN. WR. A
 M2.0 SCALE 1:30



2 DEMOLITION PLUMBING AND DRAINAGE PLAN—GROUND FLOOR GN. WR. -B
 M2.0 SCALE 1:30

DRAWING NOTES	
1	EXISTING COLD AND HOT WATER SUPPLY TO THE SECOND FLOOR GN. WR. A AND GN. WR. B TO BE CUT AND CAPPED INSIDE THE WALL BELOW THE CEILING SPACE OF THE GROUND FLOOR TO FACILITATE THE REMOVAL OF WALL AND ADDITION OF NEW FIXTURE UNITS ON SECOND FLOOR. EXISTING CONNECTIONS TO GROUND FLOOR FIXTURES REMAINS.
2	EXISTING TO REMAIN.
3	CONTRACTOR TO VERIFY THE EXACT LOCATION AND SIZES OF EXISTING CW AND HW PIPES THAT INCLUDES SCANNING OF WALLS IF REQUIRED BEFORE PROCEEDING WITH WORKS AND IN CASE OF ANY DISCREPANCY NOTIFY THE CONSULTANT FOR FURTHER INSTRUCTIONS.

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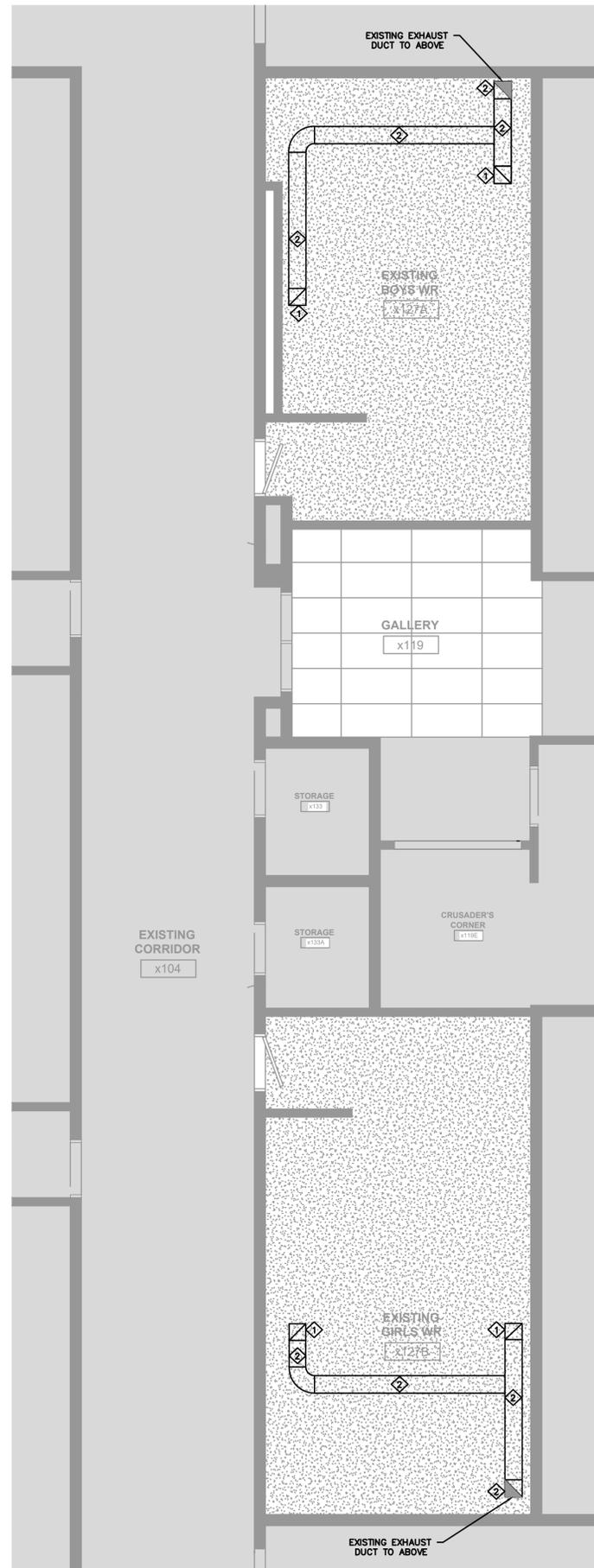
PROJECT:
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DWG TITLE:
 DEMOLITION PLUMBING AND DRAINAGE LAYOUT-PARTIAL GROUND FLOOR REFLECTED CEILING



DATE:	MAR 2025
SCALE:	AS SHOWN
DRAWN BY:	MS
CHECKED BY:	MA
DWG STATUS:	TENDER
PROJECT No.:	2025-480
DRAWING No.:	M2.0
REVISION:	



DRAWING NOTES	
1	DISCONNECT AND REMOVE THE EXISTING EXHAUST GRILLES, AND ALL THE ASSOCIATED ACCESSORIES AS SHOWN IN THE DRAWING FOR RE-INSTALLATION AT THE SAME LOCATIONS TO FACILITATE THE REMOVAL OF EXISTING CEILING AND INSTALLATION OF NEW CEILING.
2	EXISTING TO REMAIN.
3	CONTRACTOR TO VERIFY THE EXACT LOCATION OF THE EXHAUST DUCTS AND GRILLES TO BE DEMOLISHED BEFORE PROCEEDING WITH WORKS.

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DWG TITLE:
 DEMOLITION HVAC LAYOUT- PARTIAL GROUND FLOOR REFLECTED CEILING

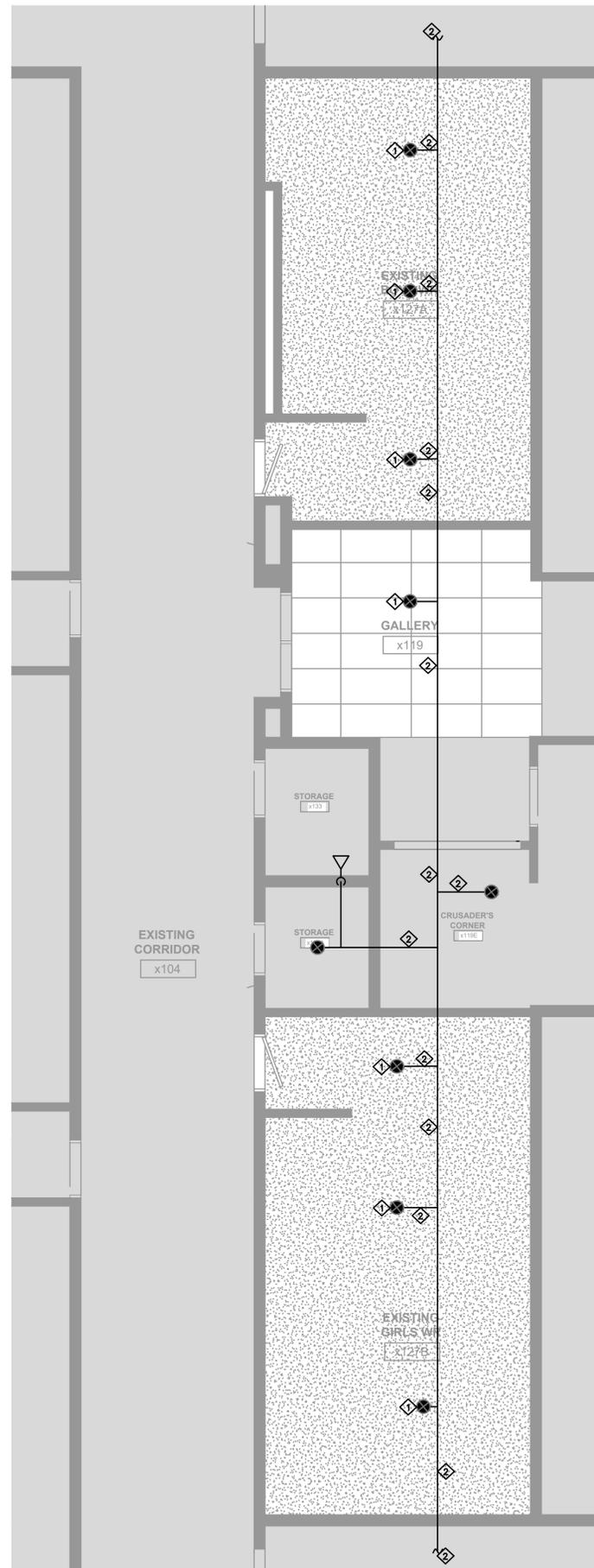


DATE:	MAR 2025
SCALE:	AS SHOWN
DRAWN BY:	MS
CHECKED BY:	MA
DWG STATUS:	TENDER
PROJECT No.:	2025-480
DRAWING No.:	M2.1
REVISION:	

1 M3.1 DEMOLITION HVAC PLAN- GROUND FLOOR GN. WR.-A AND WR.-B
 SCALE 1:50

LEGEND

- CONCEALED PENDANT SPRINKLER
- ⊗ UPRIGHT SPRINKLER



DRAWING NOTES

- 1 REMOVE THE EXISTING SPRINKLER HEADS TO FACILITATE THE INSTALLATION OF NEW CEILING AND RE-INSTALLATION OF NEW SPRINKLER HEADS AT THE EXISTING LOCATION.
- 2 EXISTING PIPES TO REMAIN.
- 3 CONTRACTOR TO VERIFY THE EXACT LOCATION OF THE SPRINKLER HEAD BEFORE COMMENCEMENT OF WORK. NOTIFY THE CONSULTANT IN CASE OF ANY DISCREPANCIES FOR FURTHER INSTRUCTIONS.

The Contractor shall verify all dimensions prior to commencement of the work. All print and specifications are the property of the Architect and must be returned upon completion of the work.

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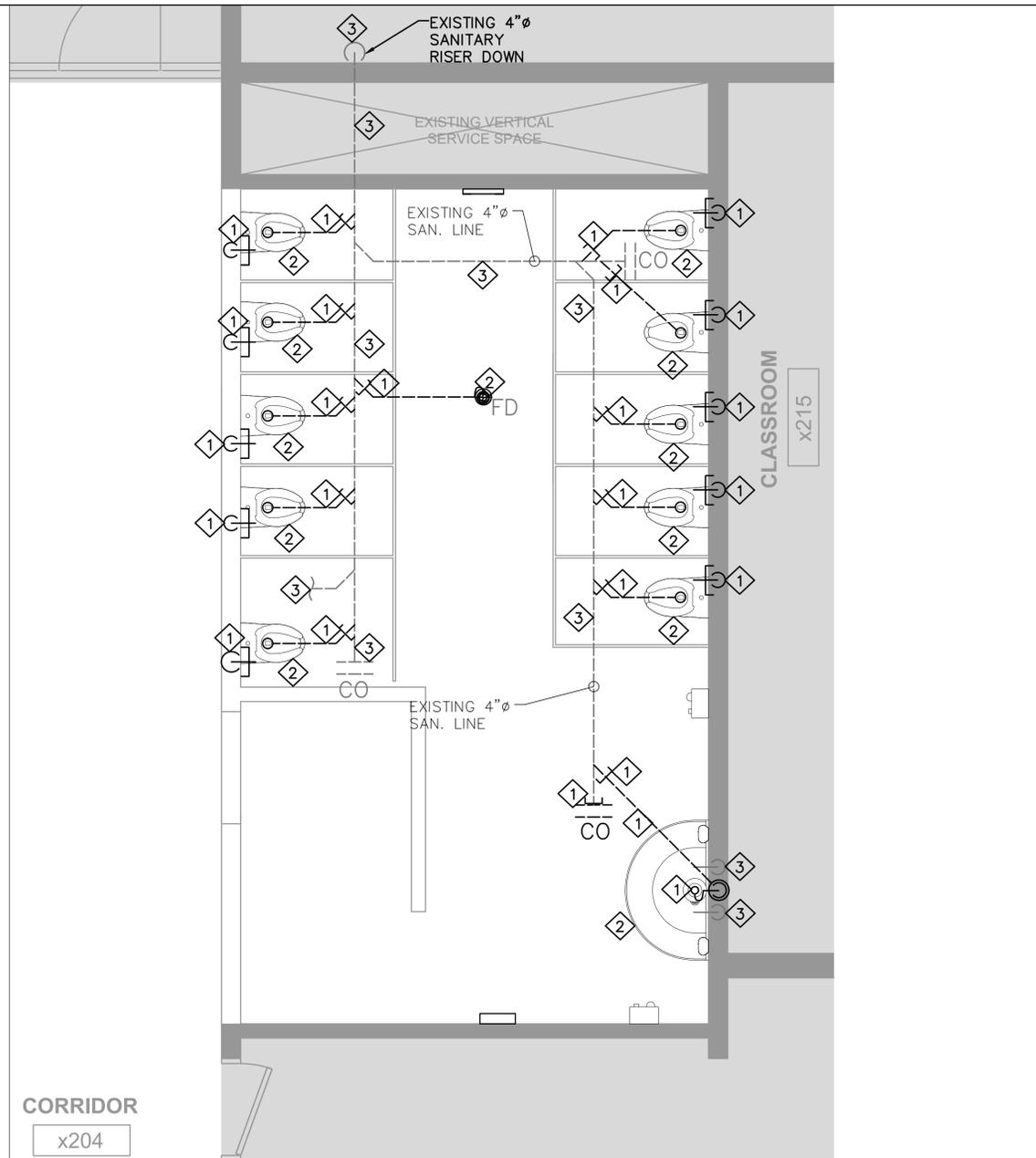


DWG TITLE:
 DEMOLITION SPRINKLERS LAYOUT-PARTIAL GROUND FLOOR REFLECTED CEILING

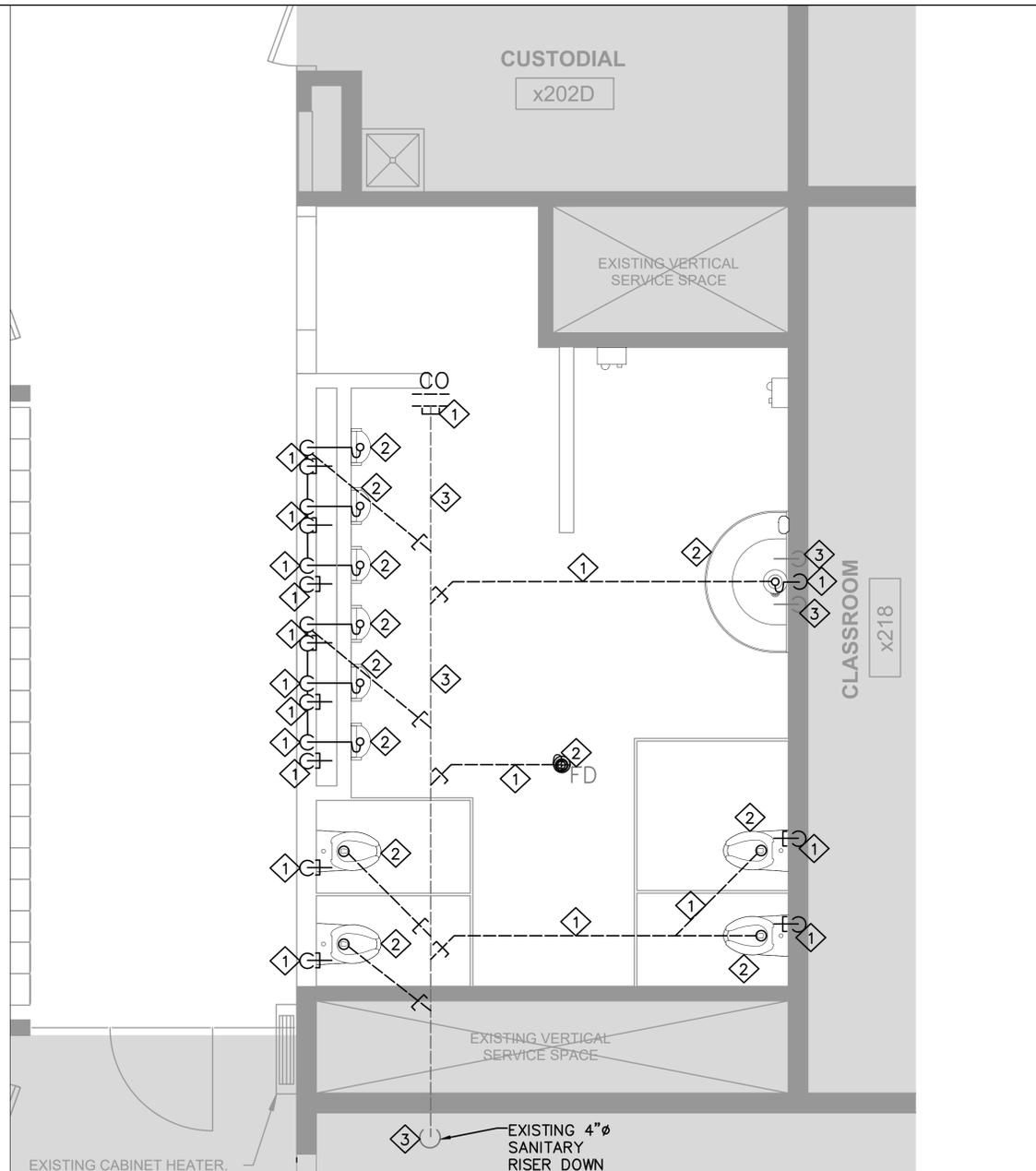


DATE :	MAR 2025
SCALE :	AS SHOWN
DRAWN BY :	MS
CHECKED BY :	MA
DWG STATUS :	TENDER
PROJECT No. :	2025-480
DRAWING No. :	M2.2
REVISION	

1 M3.2 DEMOLITION SPRINKLERS PLAN-GROUND FLOOR GN. WR.-A AND WR.-B
 SCALE 1:50



1 DEMOLITION PLUMBING AND DRAINAGE PLAN—GN. WR.—A
 M3.0 SCALE 1:30



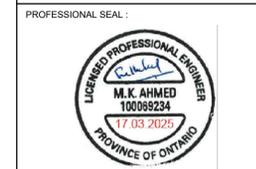
2 DEMOLITION PLUMBING AND DRAINAGE PLAN—GN. WR.—B
 M3.0 SCALE 1:30

DRAWING NOTES	
1	DISCONNECT, DISMANTLE AND REMOVE FROM SITE THE COLD AND HOT WATER SUPPLY PIPES, THE DRAINAGE LINES ALONG WITH ALL THE ASSOCIATED ACCESSORIES. CAP AND SEAL THE COLD & HOT WATER PIPES AND THE DRAIN LINES TO FACILITATE THE INSTALLATION OF NEW FIXTURES UNITS AS SHOWN IN THE DRAWING. REFER TO DRAWING M2.0 FOR PLUMBING PIPES DEMOLITION.
2	DISMANTLE AND REMOVE THE FIXTURE UNITS AND ALL ASSOCIATED ACCESSORIES FROM SITE TO A LOCATION AS INSTRUCTED BY THE OWNER.
3	EXISTING TO REMAIN.

The Contractor shall verify all dimensions prior to commencement of the work. All print and specifications are the property of the Architect and must be returned upon completion of the work.

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PROJECT:
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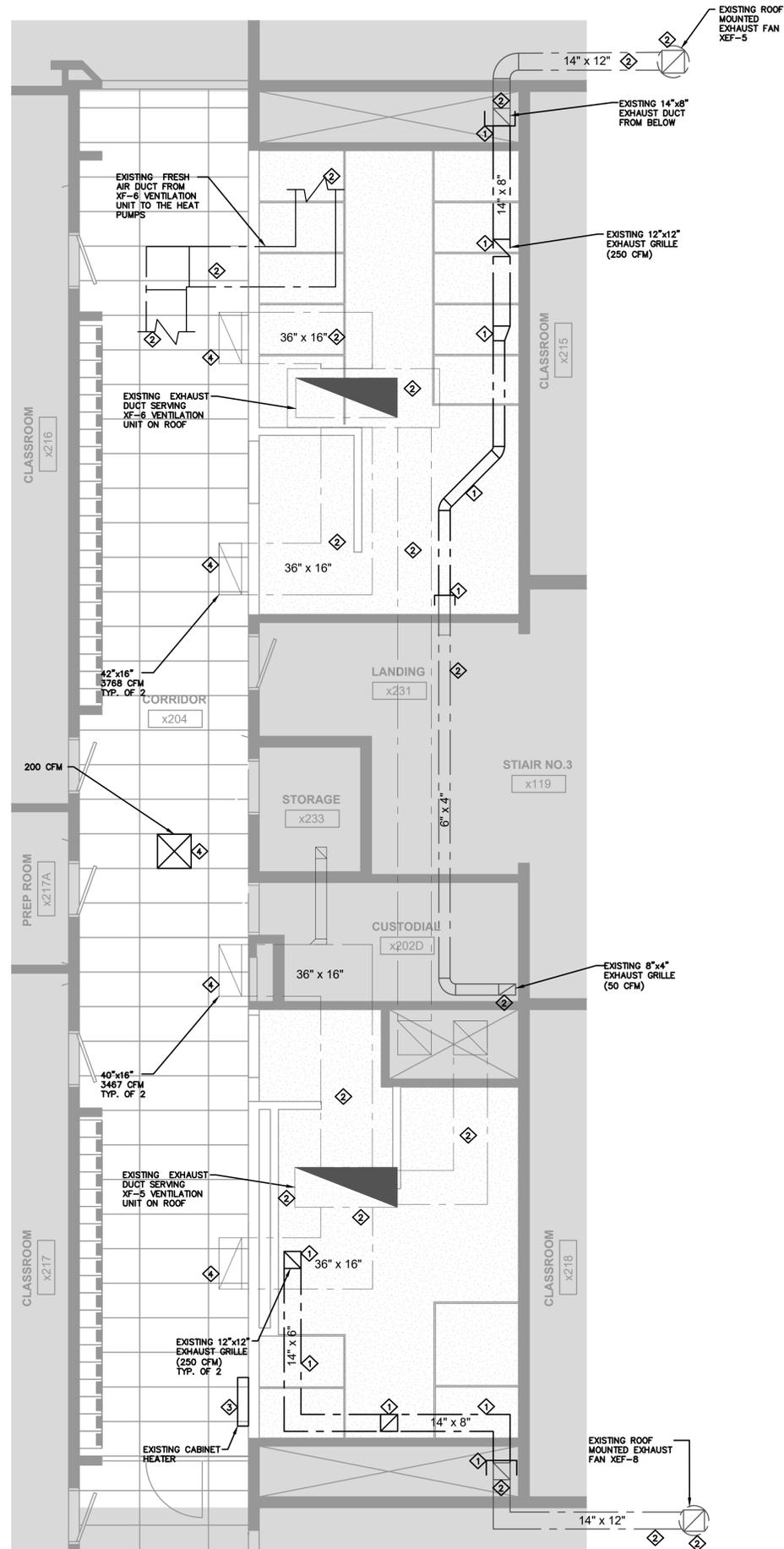


DWG TITLE:
 DEMOLITION PLUMBING AND DRAINAGE LAYOUT-PARTIAL SECOND FLOOR



REGAL CONSULTING ENGINEERS INC.
 CONSULTING MECHANICAL & ELECTRICAL ENGINEERS
 205 Wyecroft Road, Suite 200, Oakville, ON L6K 3S3
 PHONE: (905) 844-3913
 www.regal-eng.com

DATE: MAR 2025
 SCALE: AS SHOWN
 DRAWN BY: MS
 CHECKED BY: MA
 DWG STATUS: TENDER
 PROJECT No.: 2025-480
 DRAWING No.: M3.0 REVISION



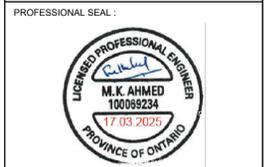
DRAWING NOTES	
1	DISCONNECT, DISMANTLE, REMOVE AND CAP THE EXISTING EXHAUST DUCTWORK, GRILLE, AND ALL THE ASSOCIATED ACCESSORIES AS SHOWN IN THE DRAWING.
2	EXISTING TO REMAIN.
3	DISCONNECT, DEMOLISH AND REMOVE FROM SITE THE EXISTING CABINET HEATER COMPLETE ALONG WITH ALL ASSOCIATED ACCESSORIES. CUT, CAP AND SEAL THE ASSOCIATED HOT WATER SUPPLY AND RETURN PIPE TILL A LOCATION SO THAT THE PIPES ARE COMPLETELY CONCEALED AFTER THE REMOVAL OF THE EXISTING WALL.
4	DISCONNECT AND REMOVE THE EXISTING EXHAUST GRILLES, SUPPLY DIFFUSER AND ALL THE ASSOCIATED ACCESSORIES AS SHOWN IN THE DRAWING FOR RE-INSTALLATION AT THE SAME LOCATIONS TO FACILITATE THE REMOVAL OF EXISTING CEILING AND INSTALLATION OF NEW CEILING.
5	CONTRACTOR TO VERIFY THE EXACT LOCATION OF THE EXHAUST DUCTS AND GRILLES TO BE DEMOLISHED BEFORE PROCEEDING WITH WORKS.

1 M3.1 DEMOLITION HVAC PLAN-GN. WR.-A AND WR.-B
SCALE 1:50

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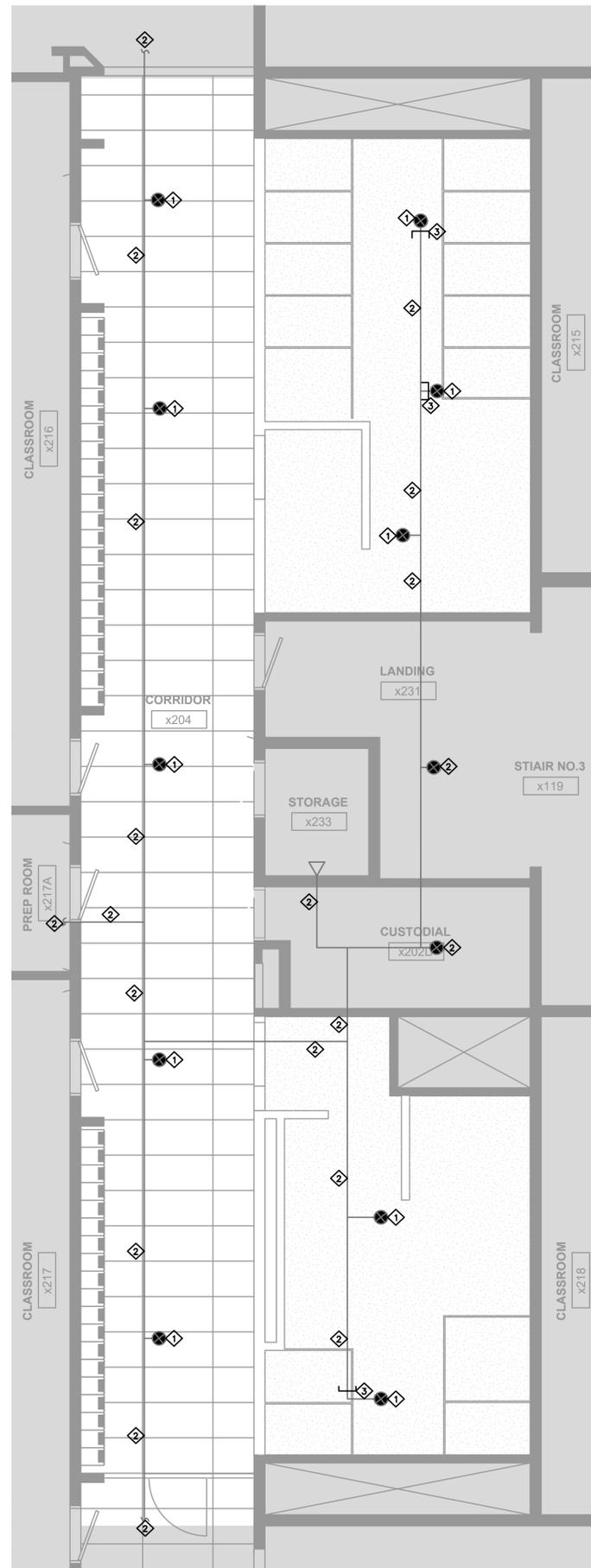
DWG TITLE:
 DEMOLITION HVAC LAYOUT-PARTIAL SECOND FLOOR



DATE:	MAR 2025
SCALE:	AS SHOWN
DRAWN BY:	MS
CHECKED BY:	MA
DWG STATUS:	TENDER
PROJECT No.:	2025-480
DRAWING No.:	M3.1
REVISION	

LEGEND

- CONCEALED PENDANT SPRINKLER
- ⊗ UPRIGHT SPRINKLER



DRAWING NOTES

- | | |
|---|--|
| 1 | REMOVE AND RE LOCATE THE EXISTING SPRINKLER HEADS TO FACILITATE THE INSTALLATION OF NEW CEILING AND RE-INSTALLATION OF NEW SPRINKLER HEADS AT THE PROPOSED LOCATION. |
| 2 | EXISTING PIPING TO REMAIN. |
| 3 | CUT AND CAP THE PIPE AT THE LOCATION SHOWN FOR RELOCATION OF THE SPRINKLER HEAD AND REMOVE FROM SITE. |
| 4 | CONTRACTOR TO VERIFY THE EXACT LOCATION OF THE SPRINKLER HEADS BEFORE COMMENCEMENT OF WORK. NOTIFY THE CONSULTANT IN CASE OF ANY DISCREPANCIES FOR FURTHER INSTRUCTIONS. |

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DWG TITLE:
 DEMOLITION SPRINKLERS LAYOUT- PARTIAL SECOND FLOOR

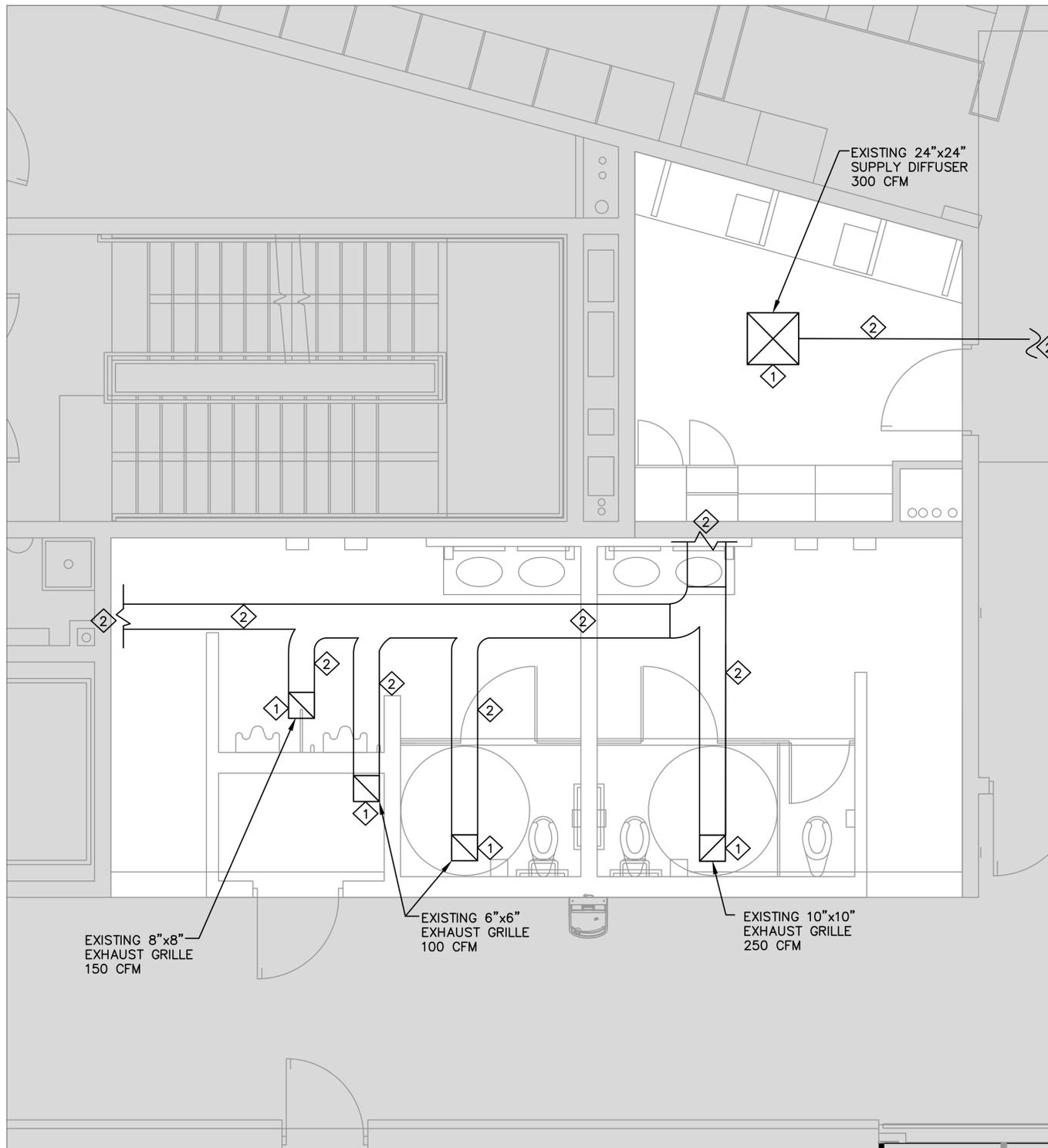


DATE:	MAR 2025
SCALE:	AS SHOWN
DRAWN BY:	MS
CHECKED BY:	MA
DWG STATUS:	TENDER
PROJECT No.:	2025-480
DRAWING No.:	M3.2
REVISION:	

1 M3.2 DEMOLITION SPRINKLERS PLAN-GN. WR.-A AND WR.-B
 SCALE 1:50

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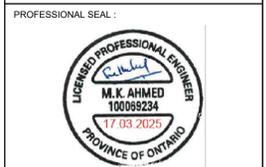
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DRAWING NOTES	
1	DISCONNECT AND REMOVE THE EXHAUST GRILLES AND THE SUPPLY DIFFUSER TO FACILITATE THE INSTALLATION OF NEW CEILING AND THEIR RE-INSTALLATION AS SHOWN.
2	EXISTING DUCTWORK IN THE CEILING SPACE TO REMAIN.
3	CONTRACTOR TO VERIFY THE EXACT LOCATION OF THE EXHAUST DUCTS, GRILLES AND SUPPLY DIFFUSER TO BE REMOVED FOR RE-INSTALLATION BEFORE PROCEEDING WITH WORKS.

1 DEMOLITION HVAC PLAN—LIBRARY WORKROOM AND SECOND FLOOR WASHROOM
 W3.3 SCALE 1:30

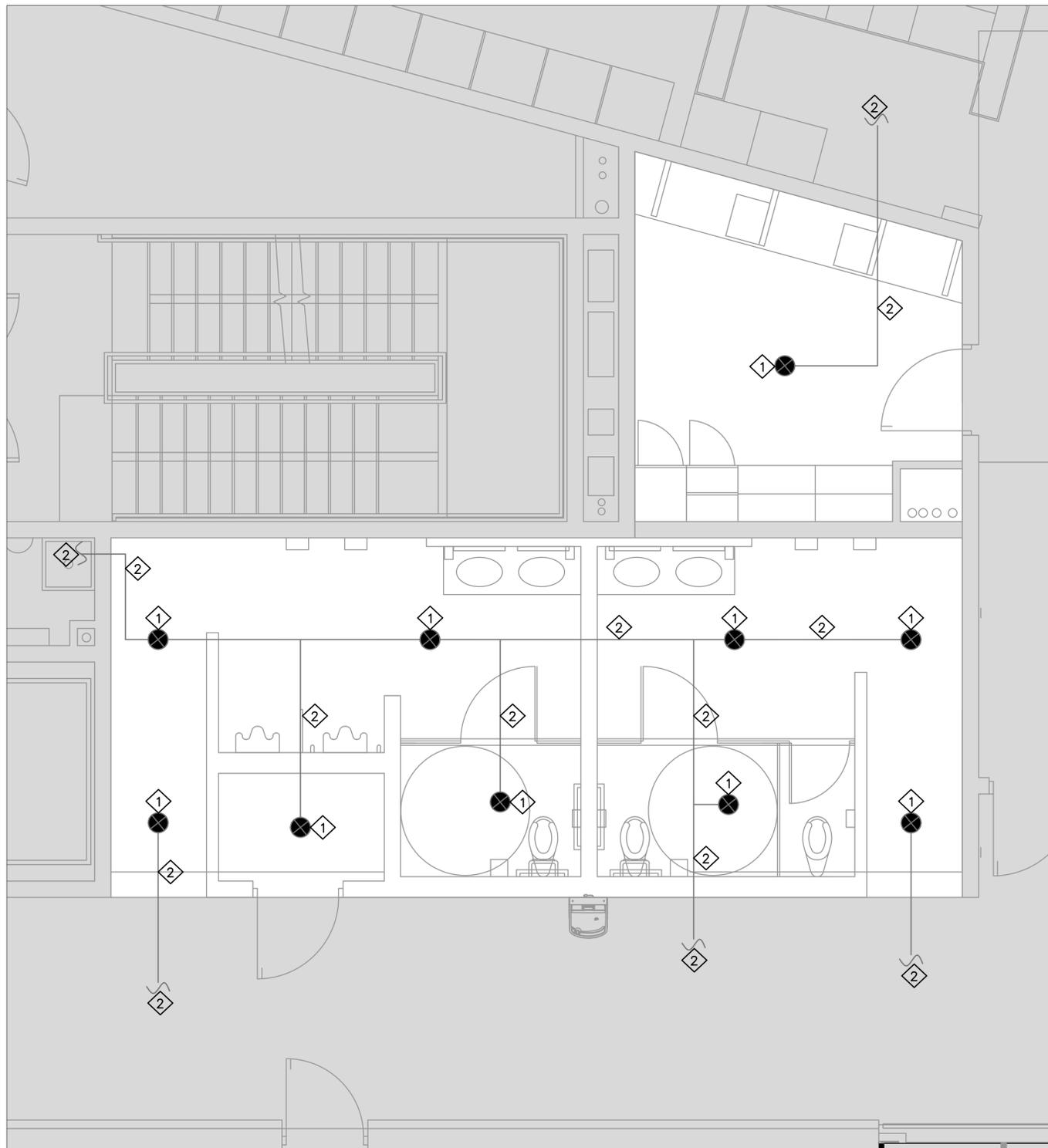
PROJECT:
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DWG TITLE:
 DEMOLITION HVAC LAYOUT-
 PARTIAL SECOND FLOOR
 LIBRARY WORK ROOM AND
 WASHROOM



DATE:	MAR 2025
SCALE:	AS SHOWN
DRAWN BY:	MS
CHECKED BY:	MA
DWG STATUS:	TENDER
PROJECT No.:	2025-480
DRAWING No.:	M3.3
REVISION:	



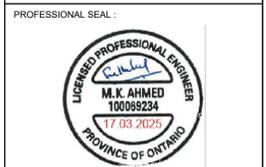
DRAWING NOTES	
1	REMOVE THE EXISTING SPRINKLER HEADS TO FACILITATE THE INSTALLATION OF NEW CEILING AND RE-INSTALLATION OF NEW SPRINKLER HEADS AT THE EXISTING LOCATION.
2	EXISTING PIPES TO REMAIN.
3	CONTRACTOR TO VERIFY THE EXACT LOCATION OF THE SPRINKLER HEAD BEFORE COMMENCEMENT OF WORK. NOTIFY THE CONSULTANT IN CASE OF ANY DISCREPANCIES FOR FURTHER INSTRUCTIONS.

1 DEMOLITION SPRINKLERS PLAN—LIBRARY WORKROOM AND SECOND FLOOR WASHROOM
 M3.4 SCALE 1:30

The Contractor shall verify all dimensions prior to commencement of the work. All print and specifications are the property of the Architect and must be returned upon completion of the work.

ISSUE OR REVISION		
No.	Description	Date
1	ISSUED FOR REVIEW	MAR 07, 2025
2	ISSUED FOR TENDER	MAR 17, 2025
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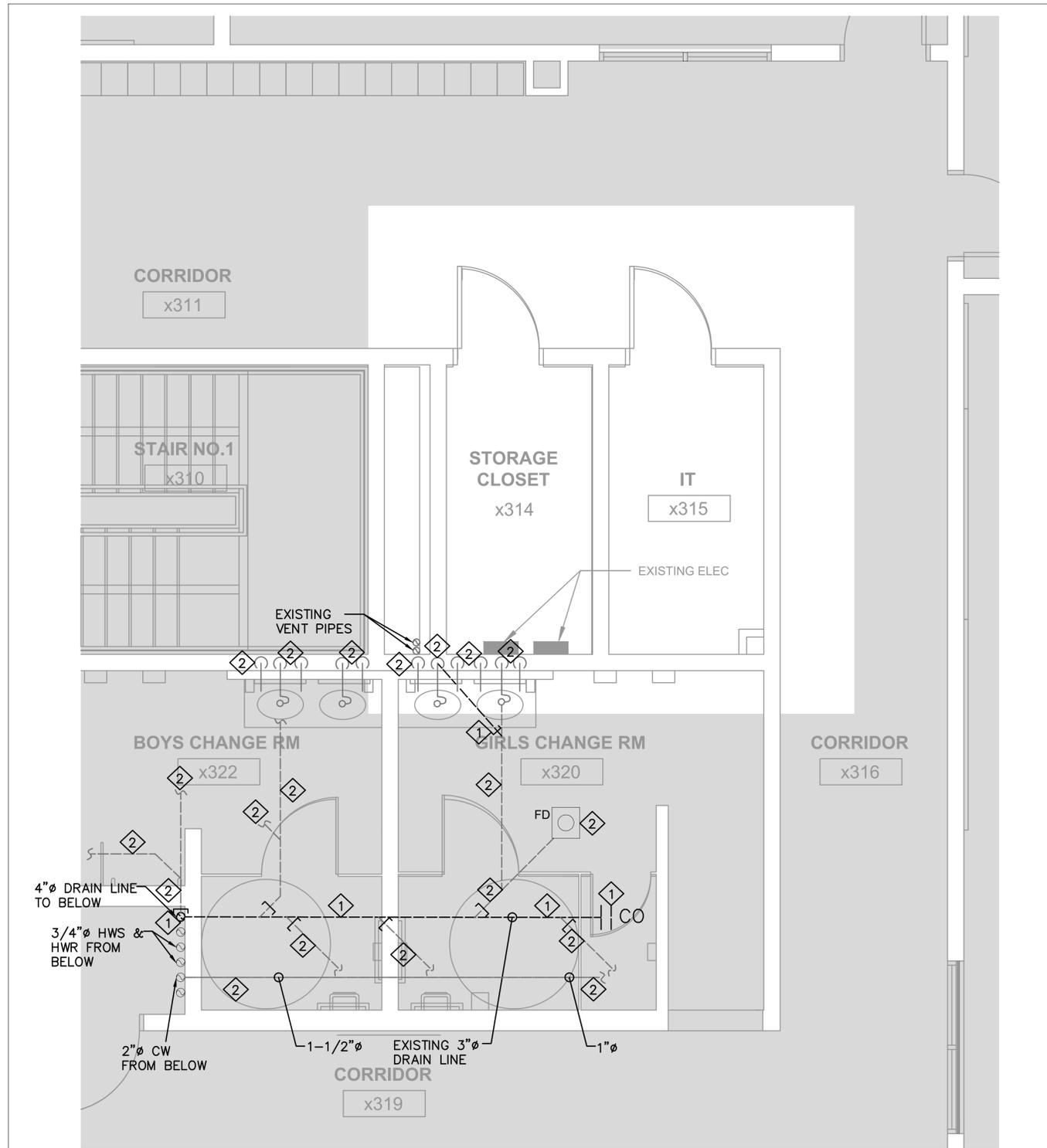
PROJECT:
ASSUMPTION CATHOLIC SECONDARY SCHOOL, GN. WR. RENO.
 3230 WOODWARD AVE, BURLINGTON, ONTARIO, L7N 3P1
 HALTON CATHOLIC DISTRICT SCHOOL BOARD



DWG TITLE:
 DEMOLITION SPRINKLERS LAYOUT-PARTIAL SECOND FLOOR LIBRARY WORK ROOM AND WASHROOM



DATE:	MAR 2025
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DRAWN BY:	MS
CHECKED BY:	MA
DWG STATUS:	TENDER
PROJECT No.:	2025-480
DRAWING No.:	M3.4
REVISION:	



1 DEMOLITION PLUMBING AND DRAINAGE PLAN- THIRD FLOOR BARRIER FREE WR.
 M4.0 SCALE 1:30

DRAWING NOTES	
1	DISMANTLE AND DISCONNECT THE EXISTING 3" Ø MAIN LINE TILL THE SECOND FLOOR DRAIN CONNECTION WHERE 4"Ø DRAINAGE RISER STARTS ALONG WITH ALL THE ASSOCIATED ACCESSORIES AND REMOVE FROM SITE. DISCONNECT ALL THE DRAIN LINES CONNECTIONS TO THE MAIN 3"Ø DRAIN LINE AS SHOWN.
2	EXISTING TO REMAIN.
3	CONTRACTOR TO VERIFY THE EXACT LOCATION OF EXISTING DRAIN LINES AND FIXTURE UNITS BEFORE COMMENCEMENT OF WORK.

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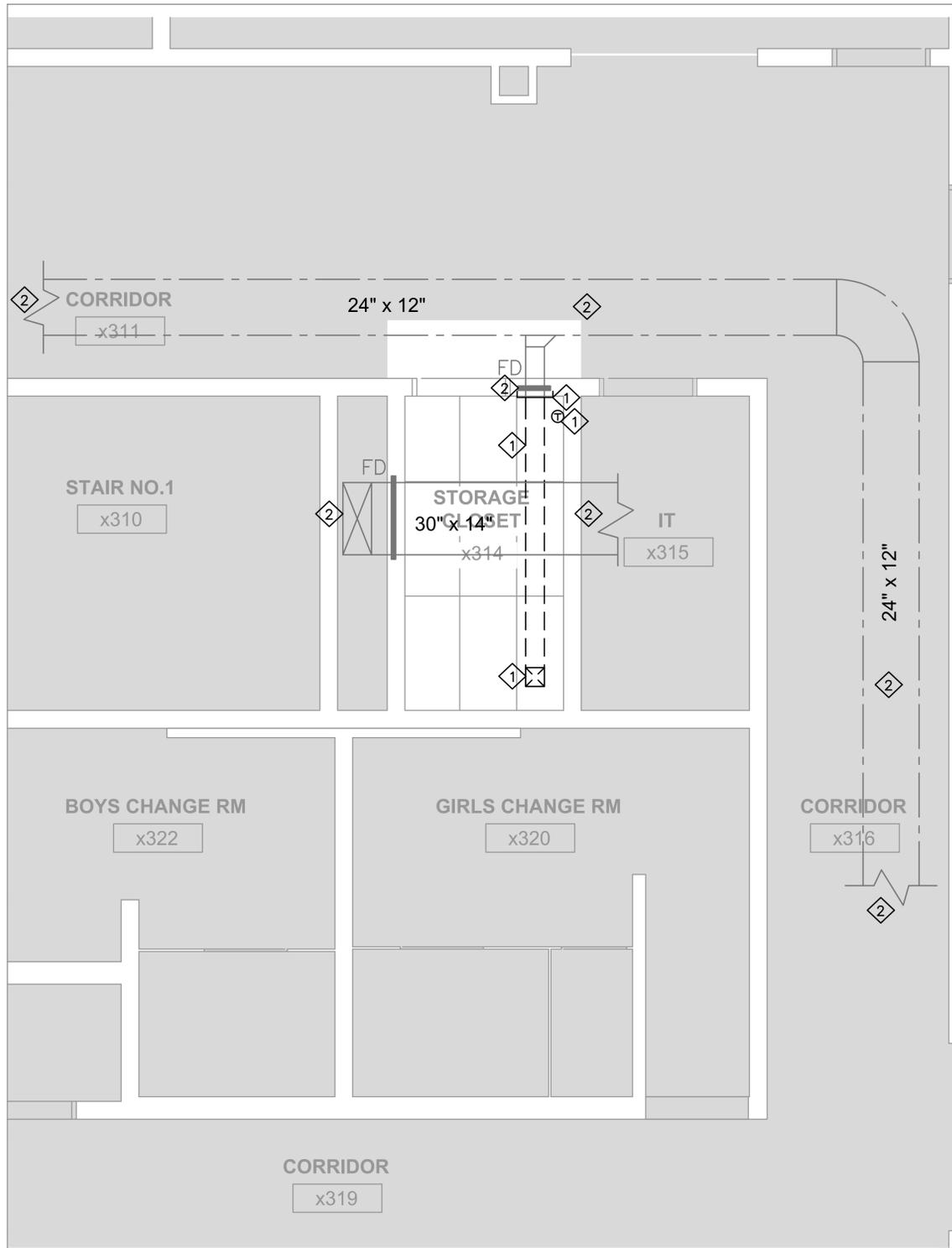
PROJECT:
ASSUMPTION CATHOLIC SECONDARY SCHOOL, GN. WR. RENO.
 3230 WOODWARD AVE, BURLINGTON, ONTARIO, L7N 3P1
 HALTON CATHOLIC DISTRICT SCHOOL BOARD



DWG TITLE:
 DEMOLITION PLUMBING AND DRAINAGE LAYOUT-PARTIAL THIRD FLOOR



DATE :	MAR 2025
SCALE :	AS SHOWN
DRAWN BY :	MS
CHECKED BY :	MA
DWG STATUS :	TENDER
PROJECT No. :	2025-480
DRAWING No. :	M4.0
REVISION	



1 DEMOLITION HVAC PLAN- THIRD FLOOR BARRIER FREE WR.
 M4.1 SCALE 1:30

DRAWING NOTES	
1	DISMANTLE , REMOVE, CAP AND SEAL THE EXISTING SUPPLY AIR DUCT, GRILLE, AND ALL THE ASSOCIATED ACCESSORIES TILL THE WALL AS SHOWN IN THE DRAWING. PAINT AND MATCH THE CAPPED WALL SECTION OF THE SUPPLY DUCT PENETRATION TO THE WASHROOM AS PROPOSED IN ARCHITECTURAL DRAWINGS OF NEW WASHROOM AREA.DISCONNECT DISMANTLE AND REMOVE FROM SITE THE EXISTING THERMOSTAT ALONG WITH ASSOCIATED WIRING AND CONTROLS COMPLETE.
2	EXISTING TO REMAIN.
3	CONTRACTOR TO VERIFY THE EXACT LOCATION OF THE DUCTS AND GRILLES TO BE DEMOLISHED BEFORE PROCEEDING WITH WORKS.

The Contractor shall verify all dimensions prior to commencement of the work. All print and specifications are the property of the Architect and must be returned upon completion of the work.

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PROJECT:
ASSUMPTION CATHOLIC SECONDARY SCHOOL, GN. WR. RENO.
 3230 WOODWARD AVE, BURLINGTON, ONTARIO, L7N 3P1
 HALTON CATHOLIC DISTRICT SCHOOL BOARD



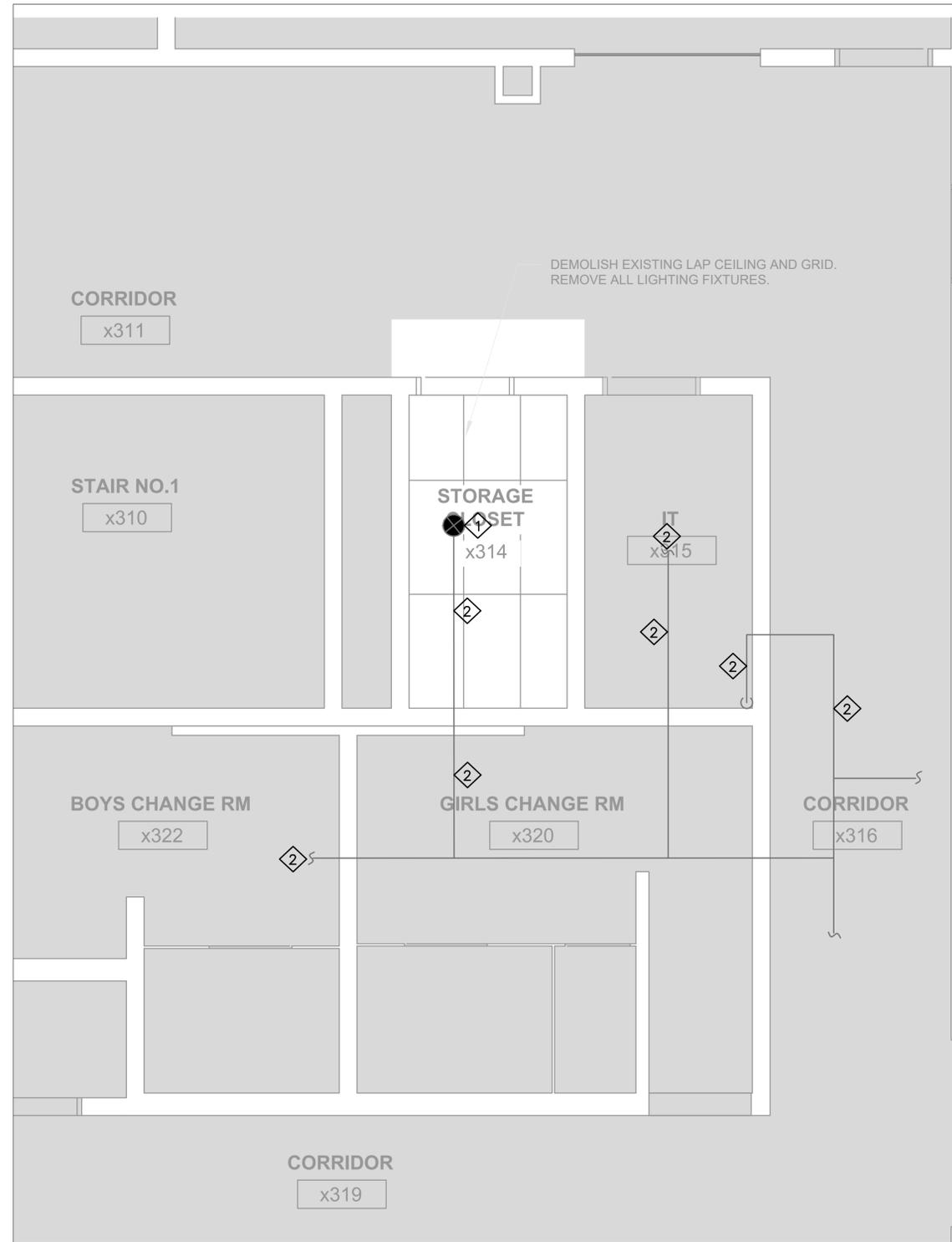
DWG TITLE:
 DEMOLITION HVAC LAYOUT- PARTIAL THIRD FLOOR



DATE :	MAR 2025
SCALE :	AS SHOWN
DRAWN BY :	MS
CHECKED BY :	MA
DWG STATUS :	TENDER
PROJECT No. :	2025-480
DRAWING No. :	M4.1
REVISION	

LEGEND

- CONCEALED PENDANT SPRINKLER
- ⊗ UPRIGHT SPRINKLER



1 DEMOLITION SPRINKLERS PLAN- THIRD FLOOR BARRIER FREE WR.
M4.2 SCALE 1:30

DRAWING NOTES	
1	REMOVE THE EXISTING SPRINKLER HEADS TO FACILITATE THE INSTALLATION OF NEW CEILING AND RE-INSTALLATION OF NEW SPRINKLER HEADS AT THE EXISTING LOCATION.
2	EXISTING PIPES TO REMAIN.
3	CONTRACTOR TO VERIFY THE EXACT LOCATION OF THE SPRINKLER HEAD BEFORE COMMENCEMENT OF WORK. NOTIFY THE CONSULTANT IN CASE OF ANY DISCREPANCIES FOR FURTHER INSTRUCTIONS.

The Contractor shall verify all dimensions prior to commencement of the work. All print and specifications are the property of the Architect and must be returned upon completion of the work.

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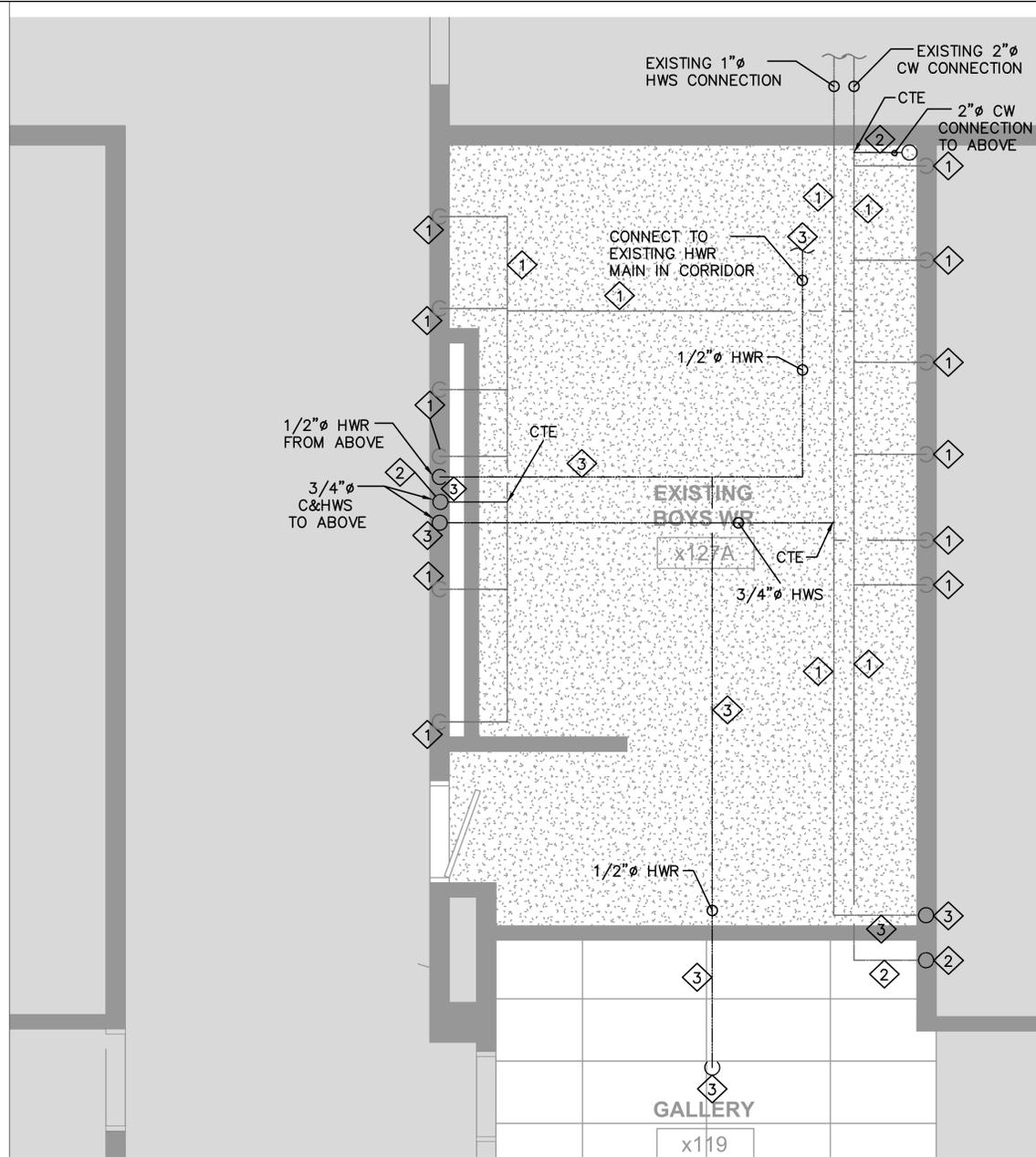
PROJECT:
ASSUMPTION CATHOLIC SECONDARY SCHOOL, GN. WR. RENO.
 3230 WOODWARD AVE, BURLINGTON, ONTARIO, L7N 3P1
 HALTON CATHOLIC DISTRICT SCHOOL BOARD



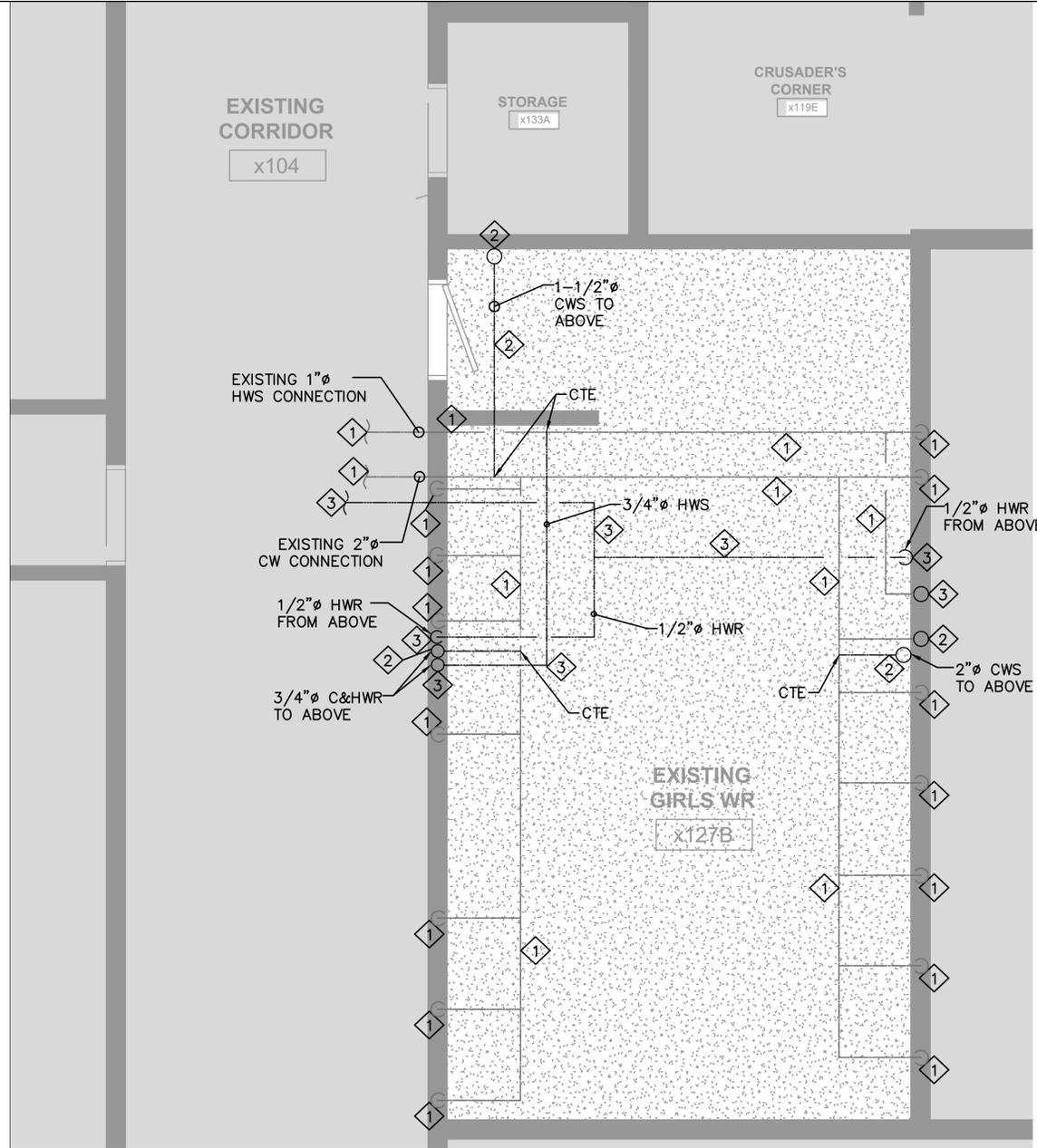
DWG TITLE:
 DEMOLITION SPRINKLERS LAYOUT- PARTIAL THIRD FLOOR



DATE:	MAR 2025
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DRAWN BY:	MS
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DWG STATUS:	TENDER
PROJECT No.:	2025-480
DRAWING No.:	M4.2
REVISION	



1 PROPOSED PLUMBING AND DRAINAGE PLAN—GROUND FLOOR GN. WR.—A
 M5.0 SCALE 1:30



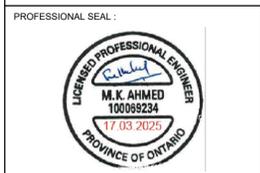
2 PROPOSED PLUMBING AND DRAINAGE PLAN—GROUND FLOOR GN. WR.—B
 M5.0 SCALE 1:30

DRAWING NOTES	
1	EXISTING CONNECTIONS TO THE GROUND FLOOR FIXTURE UNITS REMAIN.
2	SUPPLY AND INSTALL NEW COLD WATER SUPPLY PIPES AND CONNECT IT TO THE EXISTING WATER SUPPLY CONNECTIONS AT THE CEILING LEVEL OF GROUND FLOOR AND RUN THE PIPE IN THE CEILING SPACE TO THE FIXTURE UNITS ON THE SECOND FLOOR AS SHOWN.
3	SUPPLY AND INSTALL NEW HOT WATER SUPPLY AND RE-CIRCULATION PIPES AND CONNECT IT TO THE EXISTING WATER SUPPLY CONNECTION IN THE CEILING SPACE OF GROUND FLOOR AND RUN THE PIPE IN THE CEILING SPACE TO THE FIXTURE UNITS ON THE SECOND FLOOR AS SHOWN.

The Contractor shall verify all dimensions prior to commencement of the work. All print and specifications are the property of the Architect and must be returned upon completion of the work.

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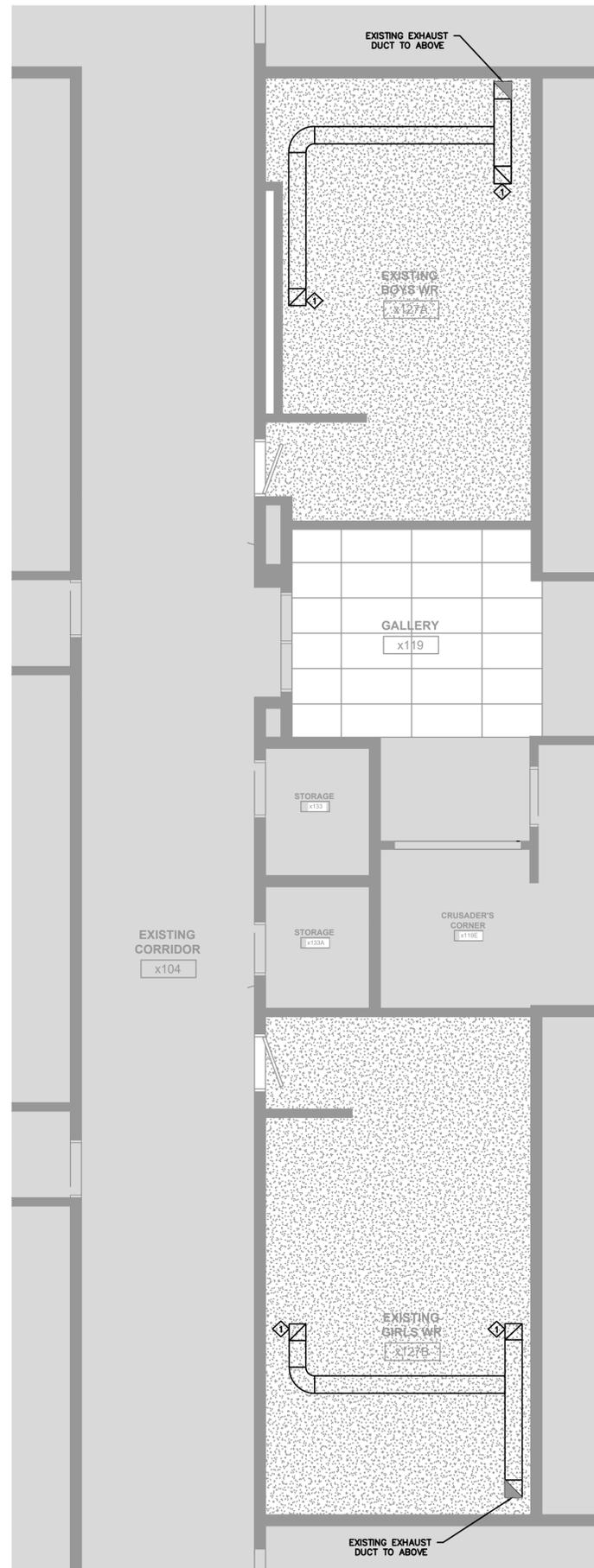
PROJECT:
ASSUMPTION CATHOLIC SECONDARY SCHOOL, GN. WR. RENO.
 3230 WOODWARD AVE, BURLINGTON, ONTARIO, L7N 3P1
 HALTON CATHOLIC DISTRICT SCHOOL BOARD



DWG TITLE:
 PROPOSED PLUMBING AND DRAINAGE LAYOUT-PARTIAL GROUND FLOOR REFLECTED CEILING



DATE:	MAR 2025
SCALE:	AS SHOWN
DRAWN BY:	MS
CHECKED BY:	MA
DWG STATUS:	TENDER
PROJECT No.:	2025-480
DRAWING No.:	M5.0
REVISION:	



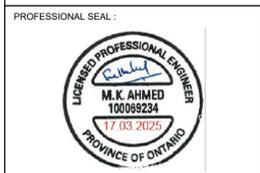
DRAWING NOTES	
1	RECONNECT THE EXISTING EXHAUST GRILLES TO THE DUCTWORK ALONG WITH ALL ASSOCIATED ACCESSORIES IN THE CEILING SPACE AT THEIR EXISTING LOCATION TO MAKE A COMPLETE INSTALLATION AS SHOWN.
2	CONTRACTOR TO BALANCE THE AIR FLOW OF THE EXHAUST FANS XEF-8 AND XEF-5 AND SUBMIT A BALANCING REPORT AT THE TIME OF COMMISSIONING OF THE SYSTEMS .

1 M6.1 PROPOSED HVAC PLAN—GROUND FLOOR GN. WR.—A AND WR.—B
SCALE 1:50

The Contractor shall verify all dimensions prior to commencement of the work. All print and specifications are the property of the Architect and must be returned upon completion of the work.

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PROJECT:
ASSUMPTION CATHOLIC SECONDARY SCHOOL, GN. WR. RENO.
 3230 WOODWARD AVE, BURLINGTON, ONTARIO, L7N 3P1
 HALTON CATHOLIC DISTRICT SCHOOL BOARD



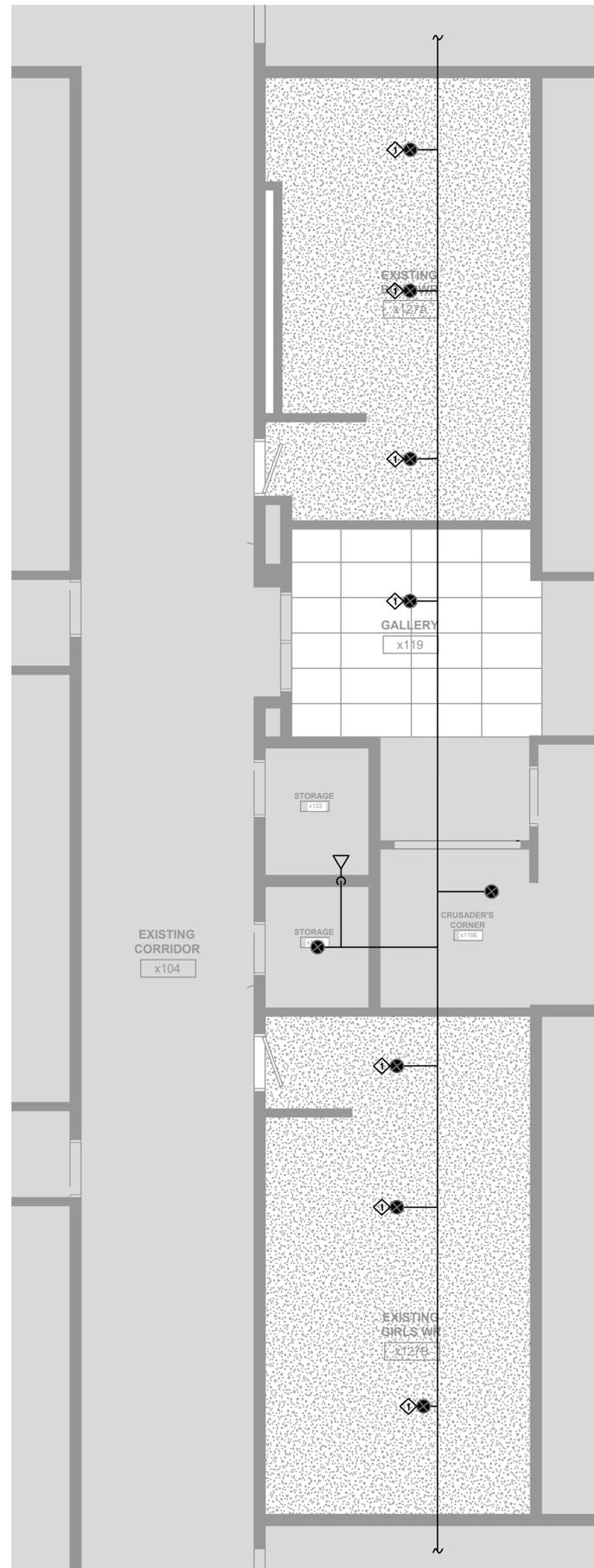
DWG TITLE:
 PROPOSED HVAC LAYOUT-PARTIAL GROUND FLOOR REFLECTED CEILING



DATE :	MAR 2025
SCALE :	AS SHOWN
DRAWN BY :	MS
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DWG STATUS :	TENDER
PROJECT No. :	2025-480
DRAWING No. :	M5.1
REVISION	

LEGEND

- CONCEALED PENDANT SPRINKLER
- ⊗ UPRIGHT SPRINKLER



DRAWING NOTES

- 1 SUPPLY AND CONNECT THE NEW SPRINKLER HEADS ALONG WITH ALL ASSOCIATED ACCESSORIES TO ITS EXISTING PIPING AS SHOWN IN THE DRAWING, COMPLETE AS REQUIRED BY ONTARIO BUILDING CODE, NFPA AND LOCAL AUTHORITY HAVING JURISDICTION.
- 2 CONTRACTOR TO ENSURE THAT THE NEW CEILING DOES NOT OBSTRUCT THE SPRINKLER HEADS OR ALTER THE PATTERN OF SPRAY AND THE SYSTEM IS IN COMPLIANCE WITH THE ONTARIO BUILDING CODE, NFPA OR LOCAL AUTHORITY HAVING JURISDICTION.
- 3 HYDRAULIC CALCULATIONS TO BE PROVIDED BY THE CONTRACTOR'S HYDRAULIC ENGINEER IF REQUIRED BY THE CITY.
- 4 CONTRACTOR SHALL SITE VERIFY WATER SUPPLY AND PERFORM A FLOW TEST AND ENSURE IT MEETS THE REQUIREMENTS OF ONTARIO BUILDING CODE, NFPA AND LOCAL AUTHORITY HAVING JURISDICTION.
- 5 NEW SPRINKLERS RE-WORK SHOULD SUIT THE EXISTING LAYOUT BY SCHOOL BOARD'S APPROVED VENDOR.

GENERAL AUTOMATIC SPRINKLER NOTES

THE SPRINKLER LAYOUT ON THESE DRAWINGS SERVES AS A GENERAL SCOPE OF WORK FOR THE FIRE PROTECTION CONTRACTOR (FPC). THE FPC SHALL DO A DETAILED REVIEW OF THE SITE AND DETERMINE THE BEST DETAILED LAYOUT IN COORDINATION WITH STRUCTURAL, MECHANICAL, ELECTRICAL AND OTHER BUILDING ELEMENTS. DESIGN SHALL BE STAMPED AND SIGNED BY THE FPC PENG.

PERFORM ALL WORK TO NFPA 13 AND AUTHORITIES HAVING JURISDICTION (OBC).

SPRINKLER HEADS SHALL BE ALIGNED IN BOTH DIRECTIONS WHERE POSSIBLE, LENGTHWISE CENTRE OF TILE AT CENTRE OR QUARTER POINTS. THE CONSULTANTS MAY REQUIRE SPRINKLER LAYOUT BE REVISED FOR APPEARANCE CONSIDERATIONS AT NO CHANGE IN PRICE FOR THE CONTRACTOR.

FPC SHALL SITE VERIFY WATER SUPPLY AND PERFORM A FLOW TEST.

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ASSUMPTION CATHOLIC SECONDARY SCHOOL, GN. WR. RENO.
 3230 WOODWARD AVE, BURLINGTON, ONTARIO, L7N 3P1

HALTON CATHOLIC DISTRICT SCHOOL BOARD

PROJECT:

PROFESSIONAL SEAL:

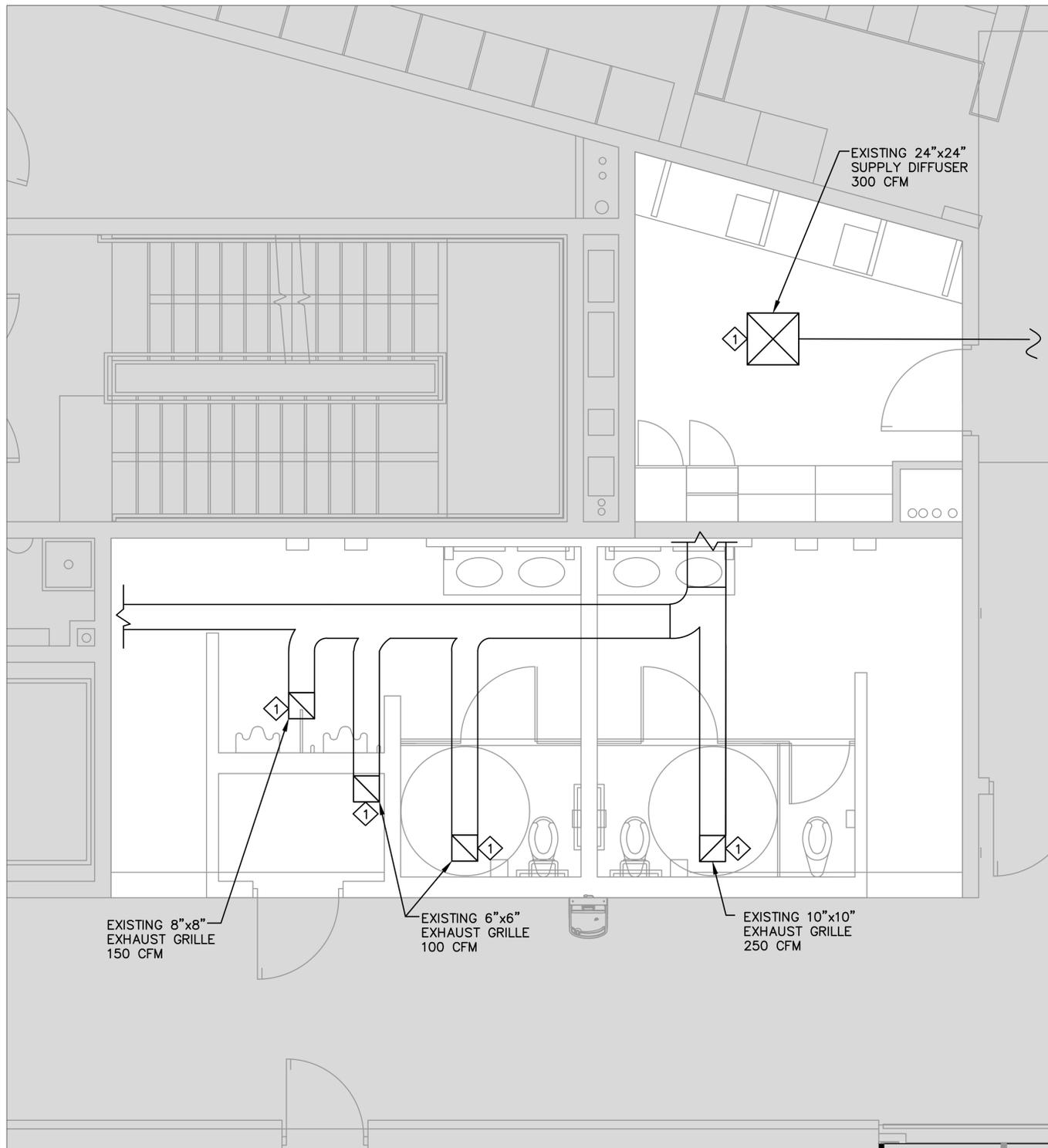


DWG TITLE:
 PROPOSED SPRINKLERS LAYOUT-PARTIAL GROUND FLOOR REFLECTED CEILING



REGAL CONSULTING ENGINEERS INC.
 CONSULTING MECHANICAL & ELECTRICAL ENGINEERS
 205 Wyecroft Road, Suite 200, Oakville, ON L6K 3S3
 PHONE: (905) 844-3913
 www.regal-eng.com

DATE:	MAR 2025
SCALE:	AS SHOWN
DRAWN BY:	MS
CHECKED BY:	MA
DWG STATUS:	TENDER
PROJECT No.:	2025-480
DRAWING No.:	M5.2
REVISION:	



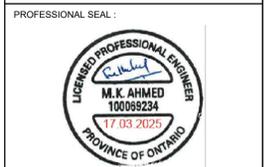
DRAWING NOTES	
1	DISCONNECT AND REMOVE THE EXHAUST GRILLES AND THE SUPPLY DIFFUSER TO FACILITATE THE INSTALLATION OF NEW CEILING AND THEIR RE-INSTALLATION AS SHOWN.
2	EXISTING DUCTWORK IN THE CEILING SPACE TO REMAIN.
3	CONTRACTOR TO VERIFY THE EXACT LOCATION OF THE EXHAUST DUCTS, GRILLES AND SUPPLY DIFFUSER TO BE REMOVED FOR RE-INSTALLATION BEFORE PROCEEDING WITH WORKS.

1 PROPOSED HVAC PLAN—LIBRARY WORKROOM AND SECOND FLOOR WASHROOM
 W5.3 SCALE 1:30

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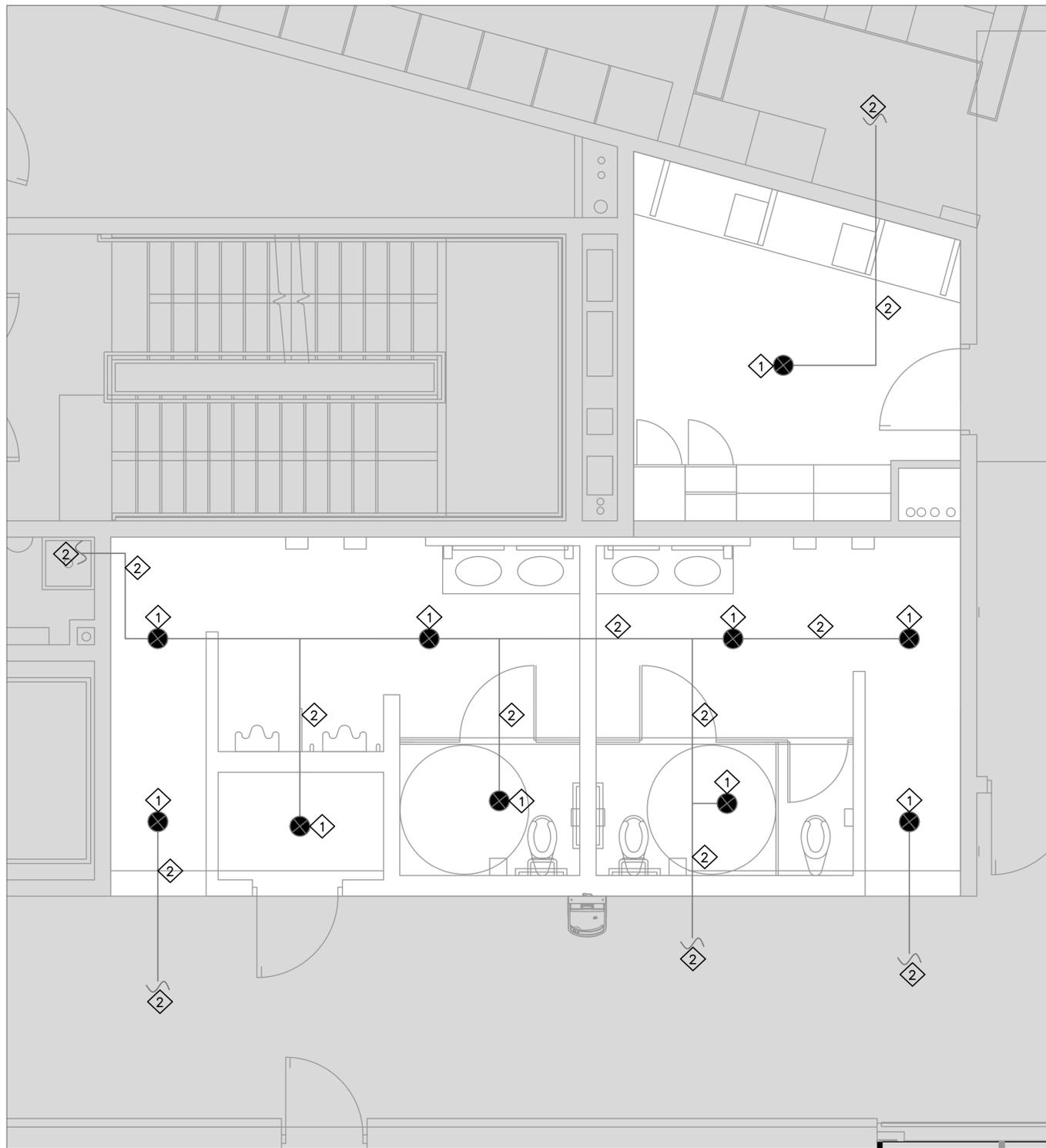
PROJECT:
ASSUMPTION CATHOLIC SECONDARY SCHOOL, GN. WR. RENO.
 3230 WOODWARD AVE, BURLINGTON, ONTARIO, L7N 3P1
 HALTON CATHOLIC DISTRICT SCHOOL BOARD



DWG TITLE:
 PROPOSED HVAC LAYOUT-
 PARTIAL SECOND FLOOR
 LIBRARY WORK ROOM AND
 WASHROOM



DATE:	MAR 2025
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PROJECT No.:	2025-480
DRAWING No.:	M5.3
REVISION:	



1 PROPOSED SPRINKLERS PLAN—LIBRARY WORKROOM AND SECOND FLOOR WASHROOM
 M5.4 SCALE 1:30

DRAWING NOTES	
1	SUPPLY AND CONNECT THE NEW SPRINKLER HEADS, PIPES, FITTINGS ETC. ALONG WITH ALL ASSOCIATED ACCESSORIES AT THE LOCATIONS SHOWN IN THE DRAWING, COMPLETE AS REQUIRED BY ONTARIO BUILDING CODE, NFPA AND LOCAL AUTHORITY HAVING JURISDICTION.
2	CONTRACTOR TO ENSURE THAT THE NEW CEILING DOES NOT OBSTRUCT THE SPRINKLER HEADS OR ALTER THEIR PATTERN OF SPRAY AND THE SYSTEM IS IN COMPLIANCE WITH THE ONTARIO BUILDING CODE, NFPA OR LOCAL AUTHORITY HAVING JURISDICTION.
3	HYDRAULIC CALCULATIONS TO BE PROVIDED BY THE CONTRACTOR'S HYDRAULIC ENGINEER IF REQUIRED BY THE CITY.
4	CONTRACTOR SHALL SITE VERIFY WATER SUPPLY AND PERFORM A FLOW TEST AND ENSURE IT MEETS THE REQUIREMENTS OF ONTARIO BUILDING CODE, NFPA AND LOCAL AUTHORITY HAVING JURISDICTION.
5	NEW SPRINKLERS RE-WORK SHOULD SUIT THE EXISTING LAYOUT BY SCHOOL BOARD'S APPROVED VENDOR.

GENERAL AUTOMATIC SPRINKLER NOTES

THE SPRINKLER LAYOUT ON THESE DRAWINGS SERVES AS A GENERAL SCOPE OF WORK FOR THE FIRE PROTECTION CONTRACTOR (FPC). THE FPC SHALL DO A DETAILED REVIEW OF THE SITE AND DETERMINE THE BEST DETAILED LAYOUT IN COORDINATION WITH STRUCTURAL, MECHANICAL, ELECTRICAL AND OTHER BUILDING ELEMENTS. DESIGN SHALL BE STAMPED AND SIGNED BY THE FPC PENG.

PERFORM ALL WORK TO NFPA 13 AND AUTHORITIES HAVING JURISDICTION (OBC).

SPRINKLER HEADS SHALL BE ALIGNED IN BOTH DIRECTIONS WHERE POSSIBLE, LENGTHWISE CENTRE OF TILE AT CENTRE OR QUARTER POINTS. THE CONSULTANTS MAY REQUIRE SPRINKLER LAYOUT BE REVISED FOR APPEARANCE CONSIDERATIONS AT NO CHANGE IN PRICE FOR THE CONTRACTOR.

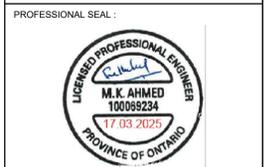
FPC SHALL SITE VERIFY WATER SUPPLY AND PERFORM A FLOW TEST.

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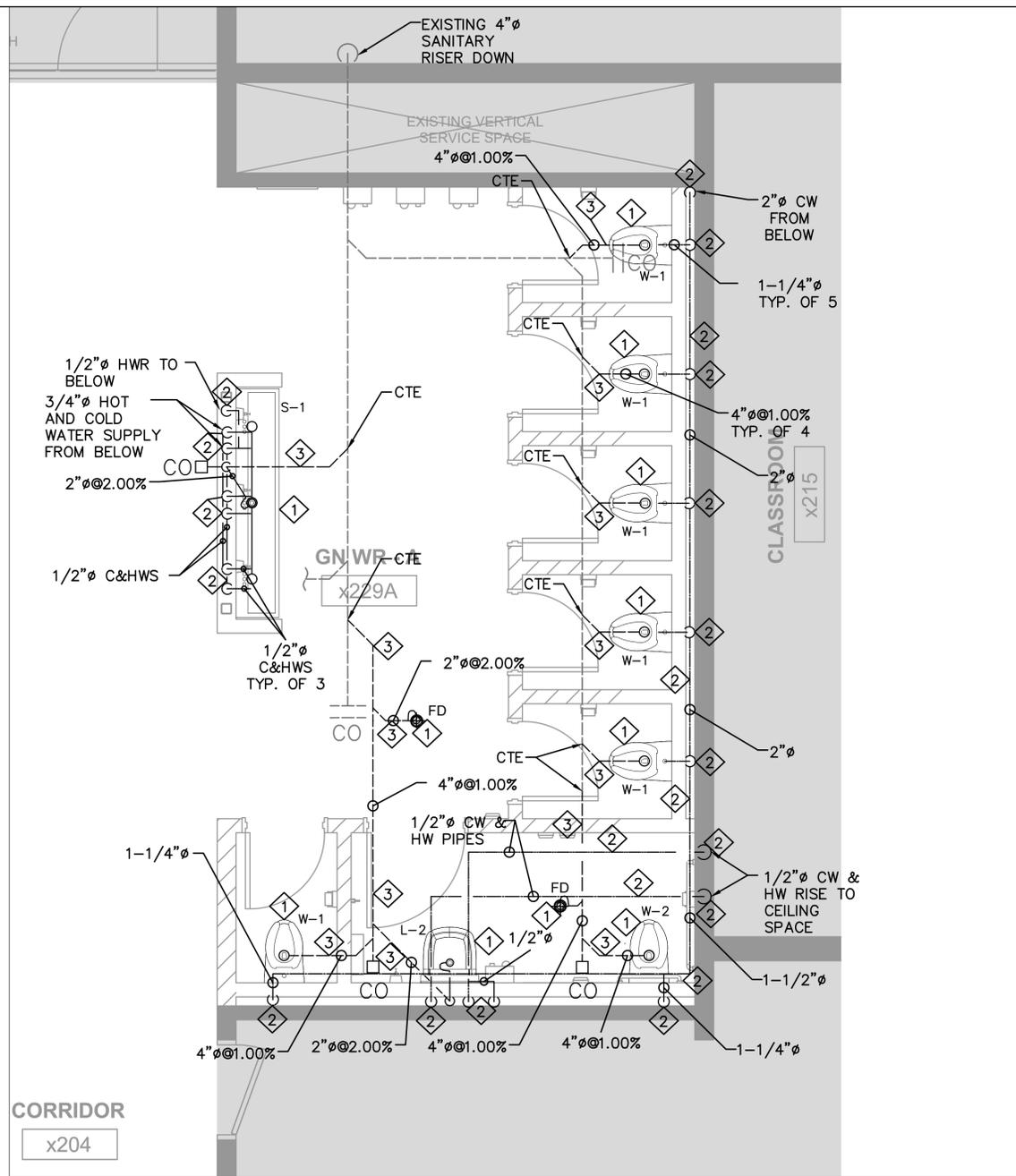
PROJECT:
ASSUMPTION CATHOLIC SECONDARY SCHOOL, GN. WR. RENO.
 3230 WOODWARD AVE, BURLINGTON, ONTARIO, L7N 3P1
 HALTON CATHOLIC DISTRICT SCHOOL BOARD



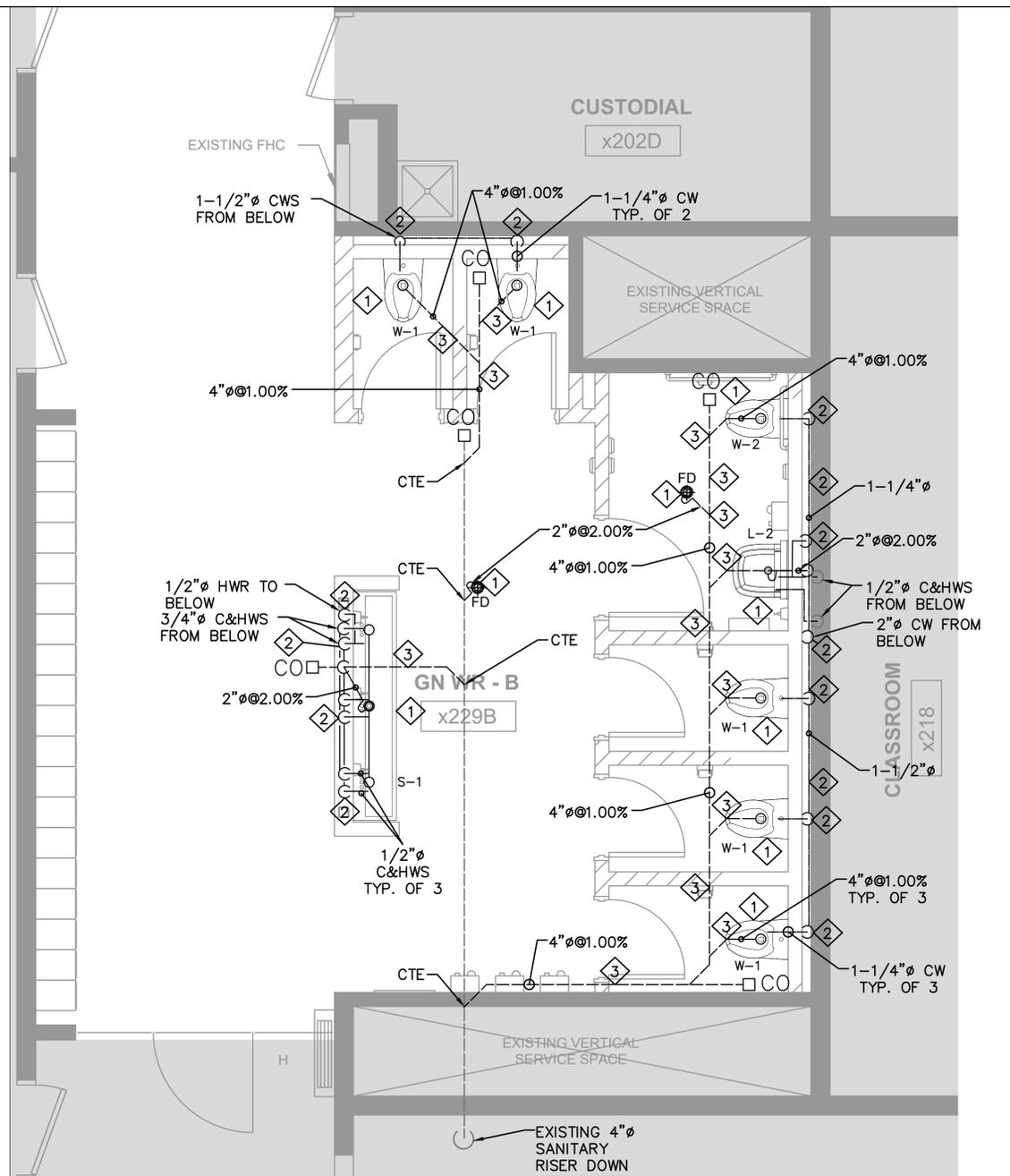
DWG TITLE:
 PROPOSED SPRINKLERS LAYOUT-PARTIAL SECOND FLOOR LIBRARY WORK ROOM AND WASHROOM



DATE :	MAR 2025
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REVISION	



1 PROPOSED PLUMBING AND DRAINAGE PLAN—GN. WR.—A
 M6.0 SCALE 1:30



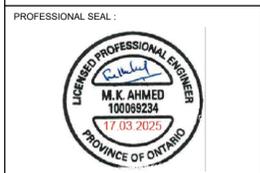
2 PROPOSED PLUMBING AND DRAINAGE PLAN—GN. WR.—B
 M6.0 SCALE 1:30

DRAWING NOTES	
1	SUPPLY AND INSTALL NEW FIXTURE UNITS AT THE LOCATION SHOWN. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION. PROVIDE HOT, COLD WATER AND HOT WATER RE-CIRCULATION CONNECTIONS, SANITARY DRAIN CONNECTIONS, P-TRAPS AND ALL ACCESSORIES AS NEEDED TO MAKE A COMPLETE INSTALLATION AS SHOWN.
2	PROVIDE AND INSTALL NEW DOMESTIC COLD WATER, HOT WATER AND HOT WATER RE-CIRCULATION PIPES FROM THE CEILING SPACE OF GROUND FLOOR AND CONNECT TO THE NEW PLUMBING FIXTURES ALONG WITH FITTINGS, SUPPORT, VALVES, INSULATION ETC. TO MAKE A COMPLETE CONNECTION. REFER TO DRAWING M5.0 FOR PROPOSED PLUMBING PIPES FROM GROUND FLOOR.
3	PROVIDE AND INSTALL NEW SANITARY DRAIN PIPES ALONG WITH P TRAPS, CLEAN OUT AND ALL ASSOCIATED ACCESSORIES AND CONNECT TO THE NEW PLUMBING FIXTURES AS SHOWN.
4	CONTRACTOR TO PROVIDE 3" Ø VENT PIPE RISER TO THE CEILING SPACE AND CONNECT TO THE EXISTING VENTING SYSTEM AS PER OBC AND LOCAL AHJ.
5	ALL PLUMBING PIPES ON PROJECT SHOULD BE COPPER. CONTRACTOR TO ALLOW FOR INSULATION ON COLD, HOT AND HOT WATER RETURN PIPES COMPLETE.

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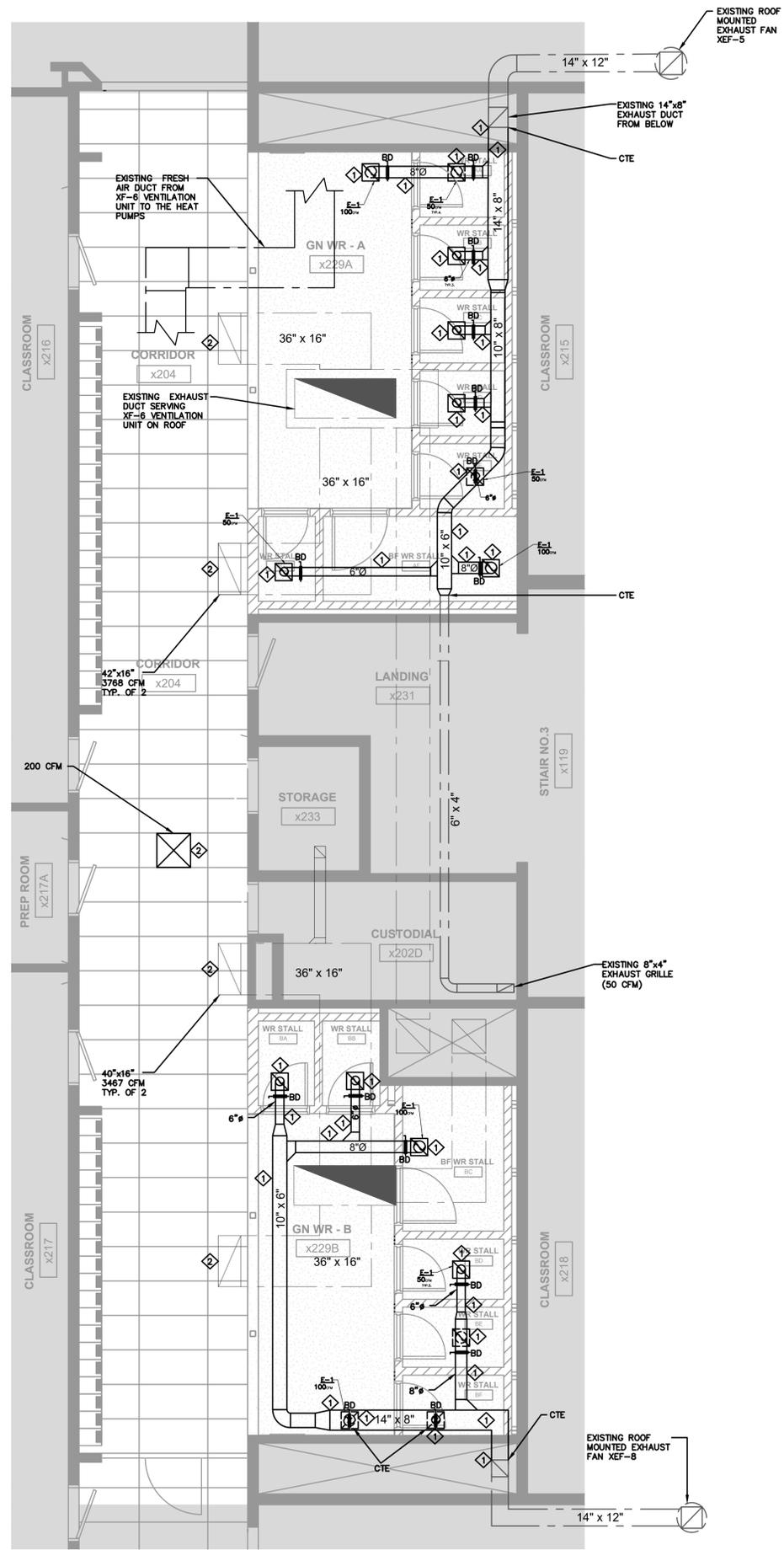
PROJECT:
ASSUMPTION CATHOLIC SECONDARY SCHOOL, GN. WR. RENO.
 3230 WOODWARD AVE, BURLINGTON, ONTARIO, L7N 3P1
 HALTON CATHOLIC DISTRICT SCHOOL BOARD



DWG TITLE:
 PROPOSED PLUMBING AND DRAINAGE LAYOUT-PARTIAL SECOND FLOOR



DATE:	MAR 2025
SCALE:	AS SHOWN
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DWG STATUS:	TENDER
PROJECT No.:	2025-480
DRAWING No.:	M6.0
REVISION:	



- ### DRAWING NOTES
- 1 PROVIDE AND INSTALL NEW EXHAUST GRILLES AND DUCTWORK ALONG WITH BACK DRAFT DAMPERS ETC. IN THE CEILING SPACE TO MAKE A COMPLETE INSTALLATION AS SHOWN. CONNECT THE NEW DUCTWORK WITH THE EXISTING DUCTWORK.
 - 2 RECONNECT THE EXISTING EXHAUST GRILLES AND THE SUPPLY DIFFUSER TO THE DUCTWORK ALONG WITH ALL ASSOCIATED ACCESSORIES IN THE CEILING SPACE AT THEIR EXISTING LOCATION TO MAKE A COMPLETE INSTALLATION AS SHOWN.
 - 3 CONTRACTOR TO BALANCE THE AIR FLOW OF THE EXHAUST FANS XEF-8 AND XEF-5, SUPPLY DIFFUSER AND EXHAUST GRILLES SERVING XF-5 AND XF-6 AND SUBMIT A BALANCING REPORT AT THE TIME OF COMMISSIONING OF THE SYSTEMS .

The Contractor shall verify all dimensions prior to commencement of the work. All print and specifications are the property of the Architect and must be returned upon completion of the work.

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DWG TITLE: PROPOSED HVAC LAYOUT-PARTIAL SECOND FLOOR

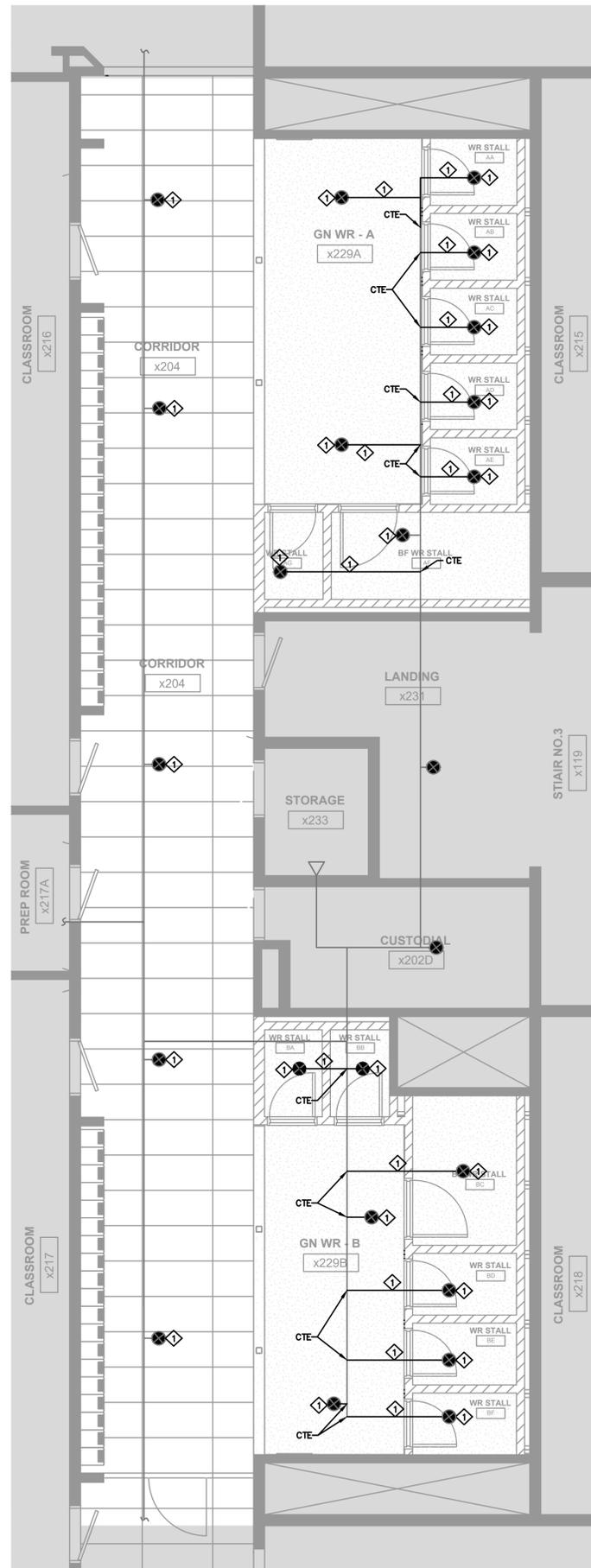


DATE:	MAR 2025
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DWG STATUS:	TENDER
PROJECT No.:	2025-480
DRAWING No.:	M6.1
REVISION:	

1 M6.1 PROPOSED HVAC PLAN-GN. WR.-A AND WR.-B
 SCALE 1:50

LEGEND

- CONCEALED PENDANT SPRINKLER
- ⊗ UPRIGHT SPRINKLER



DRAWING NOTES	
1	SUPPLY AND CONNECT THE NEW SPRINKLER HEADS, PIPES, FITTINGS ETC. ALONG WITH ALL ASSOCIATED ACCESSORIES AT THE LOCATIONS SHOWN IN THE DRAWING, COMPLETE AS REQUIRED BY ONTARIO BUILDING CODE, NFPA AND LOCAL AUTHORITY HAVING JURISDICTION.
2	CONTRACTOR TO ENSURE THAT THE NEW CEILING DOES NOT OBSTRUCT THE SPRINKLER HEADS OR ALTER THEIR PATTERN OF SPRAY AND THE SYSTEM IS IN COMPLIANCE WITH THE ONTARIO BUILDING CODE, NFPA OR LOCAL AUTHORITY HAVING JURISDICTION.
3	HYDRAULIC CALCULATIONS TO BE PROVIDED BY THE CONTRACTOR'S HYDRAULIC ENGINEER IF REQUIRED BY THE CITY.
4	CONTRACTOR SHALL SITE VERIFY WATER SUPPLY AND PERFORM A FLOW TEST AND ENSURE IT MEETS THE REQUIREMENTS OF ONTARIO BUILDING CODE, NFPA AND LOCAL AUTHORITY HAVING JURISDICTION.
5	NEW SPRINKLERS RE-WORK SHOULD SUIT THE EXISTING LAYOUT BY SCHOOL BOARD'S APPROVED VENDOR.

GENERAL AUTOMATIC SPRINKLER NOTES

THE SPRINKLER LAYOUT ON THESE DRAWINGS SERVES AS A GENERAL SCOPE OF WORK FOR THE FIRE PROTECTION CONTRACTOR (FPC). THE FPC SHALL DO A DETAILED REVIEW OF THE SITE AND DETERMINE THE BEST DETAILED LAYOUT IN COORDINATION WITH STRUCTURAL, MECHANICAL, ELECTRICAL AND OTHER BUILDING ELEMENTS. DESIGN SHALL BE STAMPED AND SIGNED BY THE FPC PENG.

PERFORM ALL WORK TO NFPA 13 AND AUTHORITIES HAVING JURISDICTION (OBC).

SPRINKLER HEADS SHALL BE ALIGNED IN BOTH DIRECTIONS WHERE POSSIBLE, LENGTHWISE CENTRE OF TILE AT CENTRE OR QUARTER POINTS. THE CONSULTANTS MAY REQUIRE SPRINKLER LAYOUT BE REVISED FOR APPEARANCE CONSIDERATIONS AT NO CHANGE IN PRICE FOR THE CONTRACTOR.

FPC SHALL SITE VERIFY WATER SUPPLY AND PERFORM A FLOW TEST.

1
M6.2 PROPOSED SPRINKLERS PLAN-GN. WR.-A AND WR.-B
SCALE 1:50

The Contractor shall verify all dimensions prior to commencement of the work. All print and specifications are the property of the Architect and must be returned upon completion of the work.

ISSUE OR REVISION		
No.	Description	Date
1	ISSUED FOR REVIEW	MAR 07, 2025
2	ISSUED FOR TENDER	MAR 17, 2025
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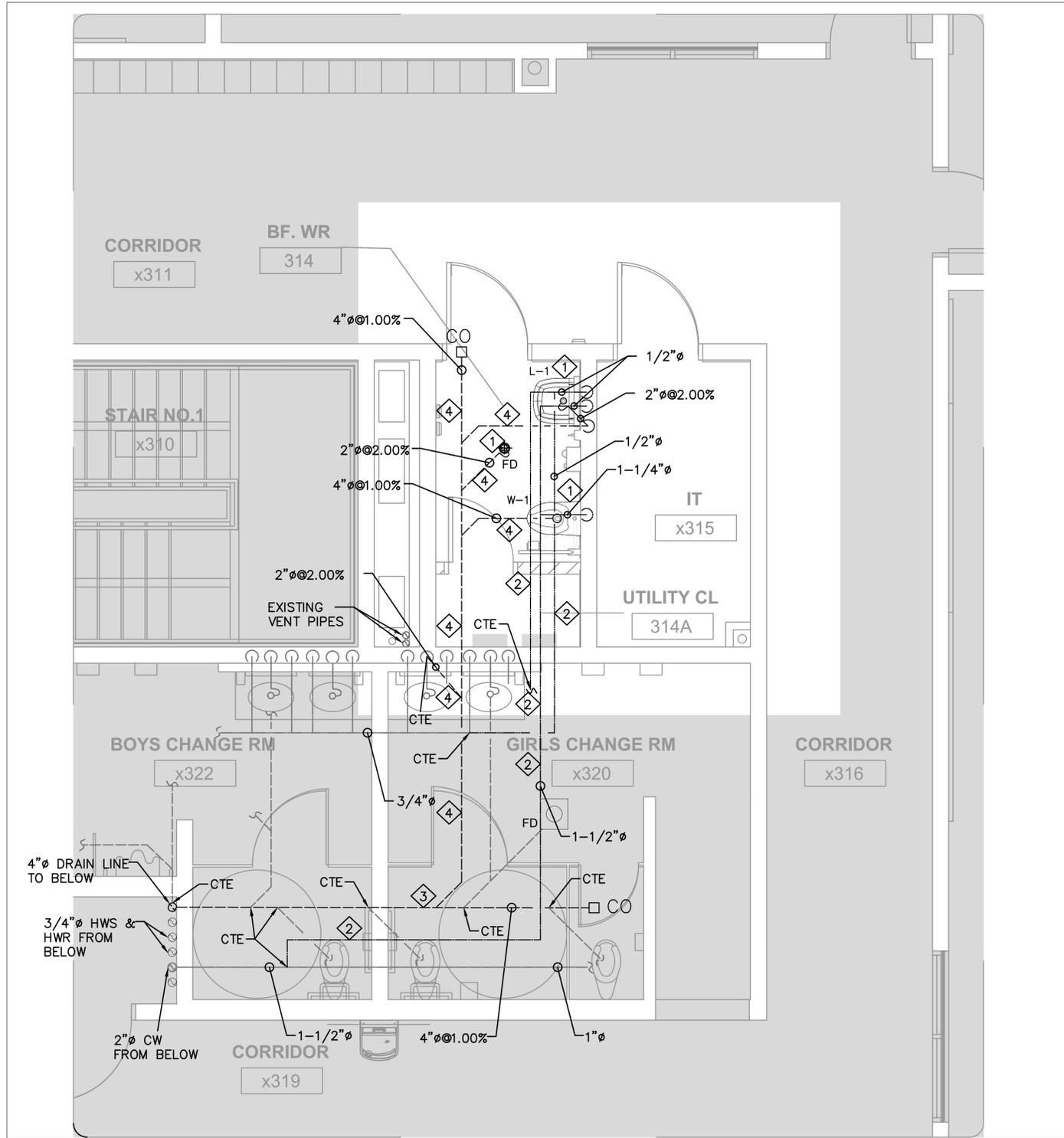
PROJECT:
ASSUMPTION CATHOLIC SECONDARY SCHOOL, GN. WR. RENO.
3230 WOODWARD AVE, BURLINGTON, ONTARIO, L7N 3P1
HALTON CATHOLIC DISTRICT SCHOOL BOARD



DWG TITLE:
PROPOSED SPRINKLERS LAYOUT- PARTIAL SECOND FLOOR



DATE:	MAR 2025
SCALE:	AS SHOWN
DRAWN BY:	MS
CHECKED BY:	MA
DWG STATUS:	TENDER
PROJECT No.:	2025-480
DRAWING No.:	M6.2
REVISION:	



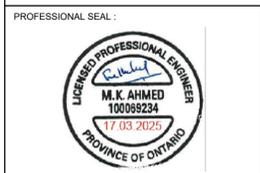
1 PROPOSED PLUMBING AND DRAINAGE PLAN- THIRD FLOOR BARRIER FREE WR.
 M7.0 SCALE 1:30

DRAWING NOTES	
1	SUPPLY AND INSTALL NEW FIXTURE UNITS AT THE LOCATION SHOWN. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION. PROVIDE HOT AND COLD WATER CONNECTIONS, SANITARY DRAIN CONNECTIONS, P-TRAP AND ALL ACCESSORIES AS NEEDED TO MAKE A COMPLETE INSTALLATION AS SHOWN.
2	PROVIDE, INSTALL AND CONNECT NEW DOMESTIC COLD WATER, HOT WATER AND HOT WATER RE-CIRCULATION PIPES IN THE CEILING SPACE AND CONNECT TO THE NEW PLUMBING FIXTURES ALONG WITH FITTINGS, SUPPORT, VALVES, INSULATION ETC. TO MAKE A COMPLETE CONNECTION AS SHOWN.
3	PROVIDE AND INSTALL NEW 4"Ø DRAIN LINE AS SHOWN AND CONNECT ALL THE EXISTING DRAIN LINES TO THE NEW DRAIN LINE COMPLETE. CONTRACTOR TO MAKE SURE THE CONNECTIONS ARE LEAK FREE.
4	PROVIDE AND INSTALL NEW SANITARY DRAIN PIPES BELOW IN CEILING SPACE OF SECOND FLOOR AND CONNECT TO THE PLUMBING FIXTURES AS SHOWN.
5	CONTRACTOR TO PROVIDE 3"Ø VENT PIPE RISER TO THE CEILING SPACE AND CONNECT TO THE EXISTING VENTING SYSTEM AS PER OBC AND LOCAL AHJ.
6	ALL PLUMBING PIPES ON PROJECT SHOULD BE COPPER. CONTRACTOR TO ALLOW FOR INSULATION ON COLD, HOT AND HOT WATER RETURN PIPES COMPLETE.

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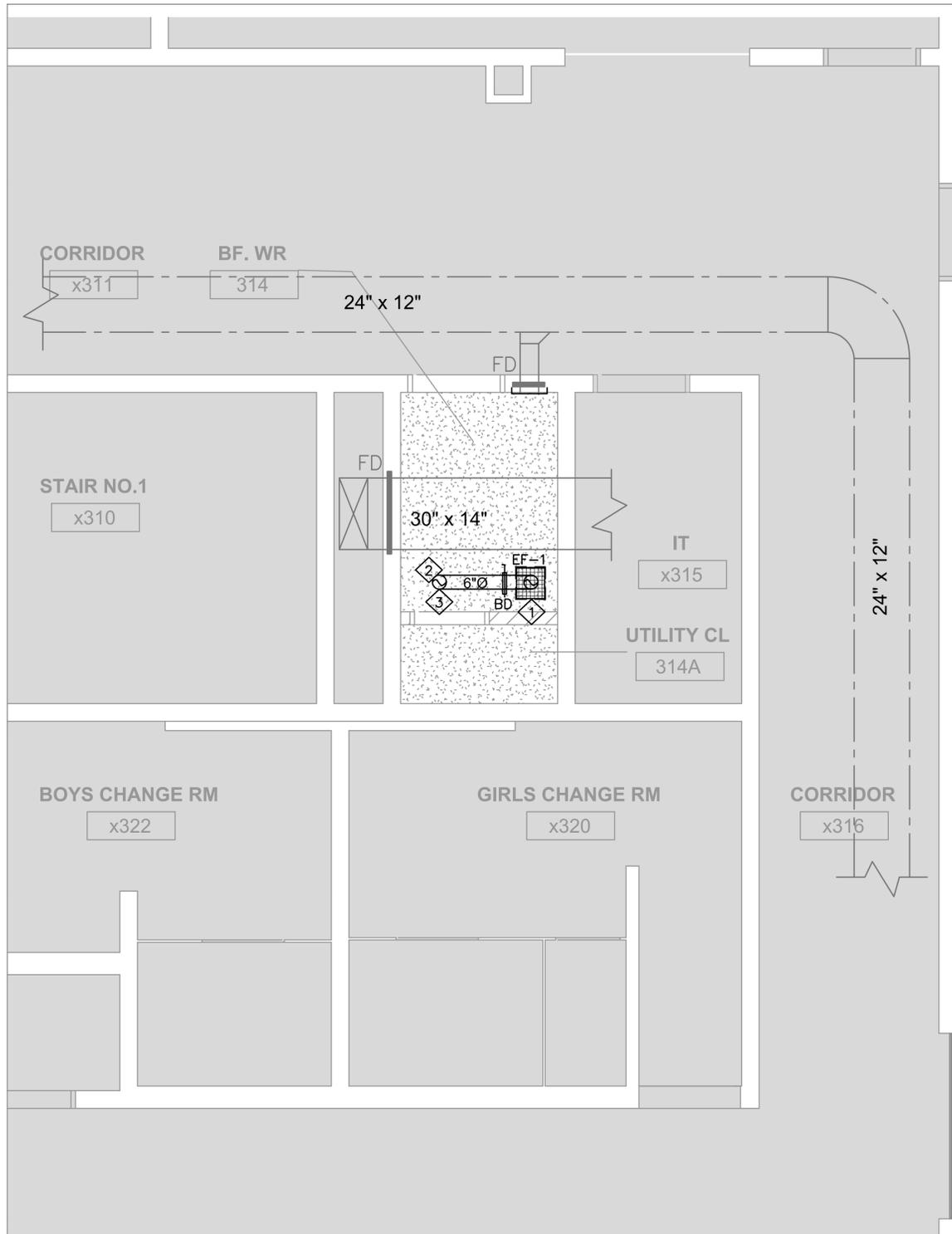
PROJECT:
ASSUMPTION CATHOLIC SECONDARY SCHOOL, GN. WR. RENO.
 3230 WOODWARD AVE, BURLINGTON, ONTARIO, L7N 3P1
 HALTON CATHOLIC DISTRICT SCHOOL BOARD



DWG TITLE:
 PROPOSED PLUMBING AND DRAINAGE LAYOUT- PARTIAL THIRD FLOOR



DATE:	MAR 2025
SCALE:	AS SHOWN
DRAWN BY:	MS
CHECKED BY:	MA
DWG STATUS:	TENDER
PROJECT No.:	2025-480
DRAWING No.:	M7.0
REVISION:	



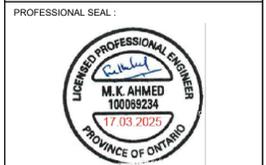
1 M7.1 PROPOSED HVAC PLAN- THIRD FLOOR BARRIER FREE WR.
SCALE 1:30

DRAWING NOTES	
1	PROVIDE AND INSTALL CEILING MOUNTED EXHAUST FAN WITH INTEGRAL EXHAUST AIR GRILLE. PROVIDE ELECTRICAL INTERLOCK WITH THE LIGHT SWITCH (BY ELECTRICAL DIVISION) SO THAT FAN TURNS ON/OFF WITH THE LIGHT SWITCH. COORDINATE WITH OTHER SERVICES ON THE CEILING TO FACILITATE THE INSTALLATION.
2	PROVIDE AND INSTALL NEW 6"Ø EXHAUST AIR DUCTS IN THE CEILING SPACE AND CONNECT TO THE CEILING MOUNTED EXHAUST FAN EF-1. TERMINATE THE DUCT ON THE ROOF WITH GRAVITY BACK-DRAFT DAMPER, GOOSE NECK AND BIRD SCREEN. COORDINATE THE LOCATION OF THE DUCT WITH ALL THE EXISTING SERVICES AT SITE. INSULATE THE DUCT WITH 3" FIBERGLASS INSULATION FOR A MINIMUM OF 6' FROM THE ROOF PENETRATION. COMPLY WITH MANUFACTURER'S INSTRUCTIONS AND WITH REQUIREMENT OF ONTARIO BUILDING CODE AND LOCAL AUTHORITY HAVING JURISDICTION.
3	APPLY SEALANT ON ALL SIDES ADJOINING MASONRY AT THE POINT OF ROOF PENETRATIONS, AS PER ONTARIO BUILDING CODES AND LOCAL AUTHORITY HAVING JURISDICTION, TO PREVENT WATER LEAKAGE INTO THE BUILDING STRUCTURE.
4	CONTRACTOR TO BALANCE THE AIR FLOW OF THE NEW EXHAUST SYSTEMS AND SUBMIT A BALANCING REPORT AT THE TIME OF COMMISSIONING OF THE SYSTEMS .

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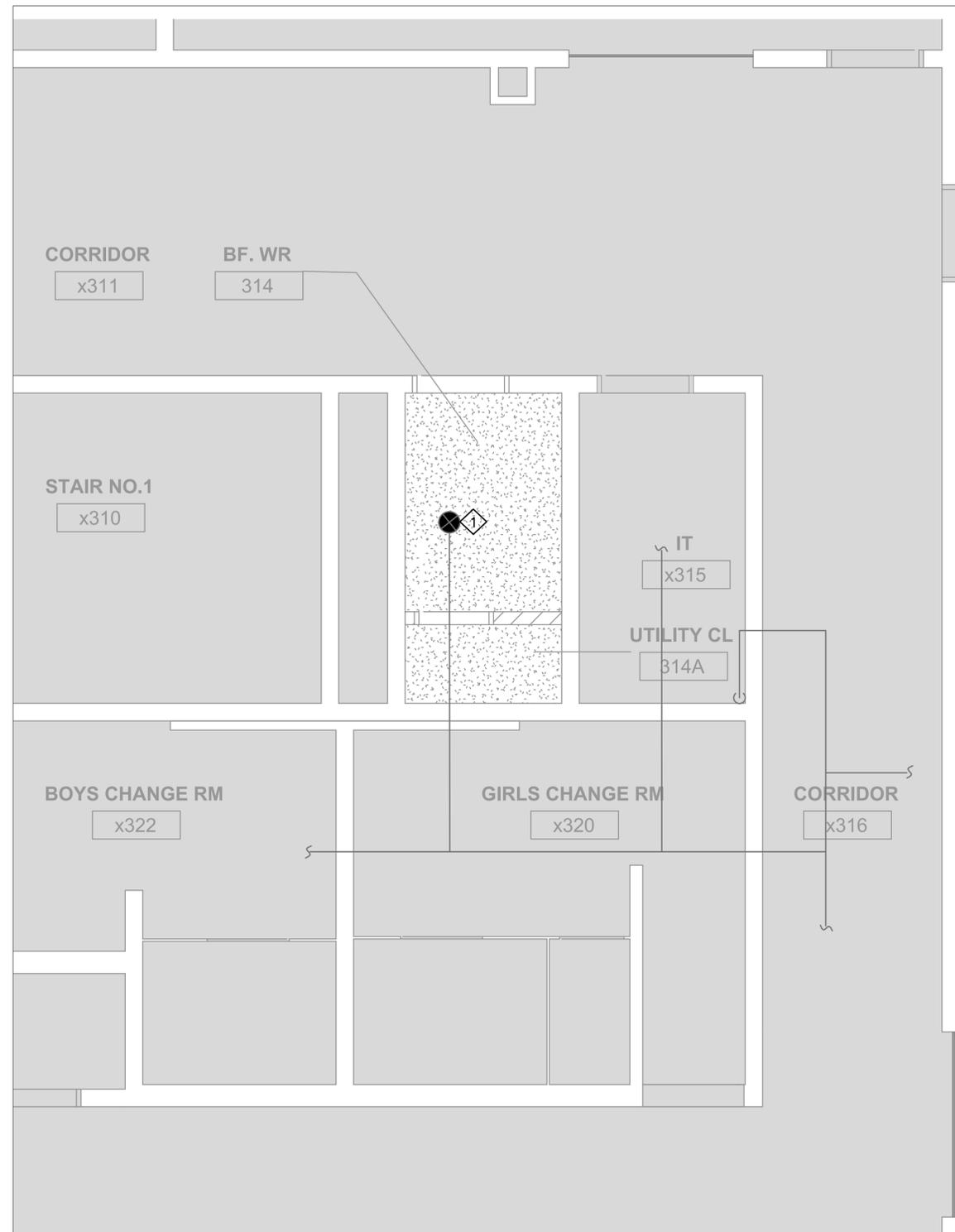
DWG TITLE:
 PROPOSED HVAC LAYOUT- PARTIAL THIRD FLOOR



DATE :	MAR 2025
SCALE :	AS SHOWN
DRAWN BY :	MS
CHECKED BY :	MA
DWG STATUS :	TENDER
PROJECT No. :	2025-480
DRAWING No. :	M7.1
REVISION	

LEGEND

- CONCEALED PENDANT SPRINKLER
- ⊗ UPRIGHT SPRINKLER



1 PROPOSED SPRINKLERS PLAN— THIRD FLOOR BARRIER FREE WR.
M7.2 SCALE 1:30

DRAWING NOTES

- 1 SUPPLY AND CONNECT THE NEW SPRINKLER HEAD ALONG WITH ALL ASSOCIATED ACCESSORIES TO ITS EXISTING PIPING AS SHOWN IN THE DRAWING, COMPLETE AS REQUIRED BY ONTARIO BUILDING CODE, NFPA AND LOCAL AUTHORITY HAVING JURISDICTION.
- 2 CONTRACTOR TO ENSURE THAT THE NEW CEILING DOES NOT OBSTRUCT THE SPRINKLER HEAD OR ALTER THE PATTERN OF SPRAY AND THE SYSTEM IS IN COMPLIANCE WITH THE ONTARIO BUILDING CODE, NFPA OR LOCAL AUTHORITY HAVING JURISDICTION.
- 3 HYDRAULIC CALCULATIONS TO BE PROVIDED BY THE CONTRACTOR'S HYDRAULIC ENGINEER IF REQUIRED BY THE CITY.
- 4 CONTRACTOR SHALL SITE VERIFY WATER SUPPLY AND PERFORM A FLOW TEST AND ENSURE IT MEETS THE REQUIREMENTS OF ONTARIO BUILDING CODE, NFPA AND LOCAL AUTHORITY HAVING JURISDICTION.
- 5 NEW SPRINKLERS RE-WORK SHOULD SUIT THE EXISTING LAYOUT BY SCHOOL BOARD'S APPROVED VENDOR.

GENERAL AUTOMATIC SPRINKLER NOTES

THE SPRINKLER LAYOUT ON THESE DRAWINGS SERVES AS A GENERAL SCOPE OF WORK FOR THE FIRE PROTECTION CONTRACTOR (FPC). THE FPC SHALL DO A DETAILED REVIEW OF THE SITE AND DETERMINE THE BEST DETAILED LAYOUT IN COORDINATION WITH STRUCTURAL, MECHANICAL, ELECTRICAL AND OTHER BUILDING ELEMENTS. DESIGN SHALL BE STAMPED AND SIGNED BY THE FPC PENG.

PERFORM ALL WORK TO NFPA 13 AND AUTHORITIES HAVING JURISDICTION (OBC).

SPRINKLER HEADS SHALL BE ALIGNED IN BOTH DIRECTIONS WHERE POSSIBLE, LENGTHWISE CENTRE OF TILE AT CENTRE OR QUARTER POINTS. THE CONSULTANTS MAY REQUIRE SPRINKLER LAYOUT BE REVISED FOR APPEARANCE CONSIDERATIONS AT NO CHANGE IN PRICE FOR THE CONTRACTOR.

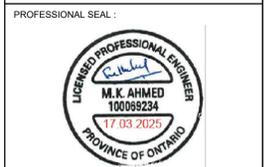
FPC SHALL SITE VERIFY WATER SUPPLY AND PERFORM A FLOW TEST.

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DWG TITLE: PROPOSED SPRINKLERS LAYOUT- PARTIAL THIRD FLOOR

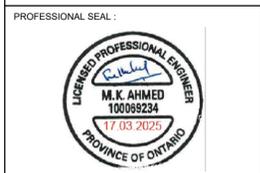


DATE: MAR 2025
 SCALE: AS SHOWN
 DRAWN BY: MS
 CHECKED BY: MA
 DWG STATUS: TENDER
 PROJECT No.: 2025-480
 DRAWING No.: M7.2 REVISION

The Contractor shall verify all dimensions prior to commencement of the work. All print and specifications are the property of the Architect and must be returned upon completion of the work.

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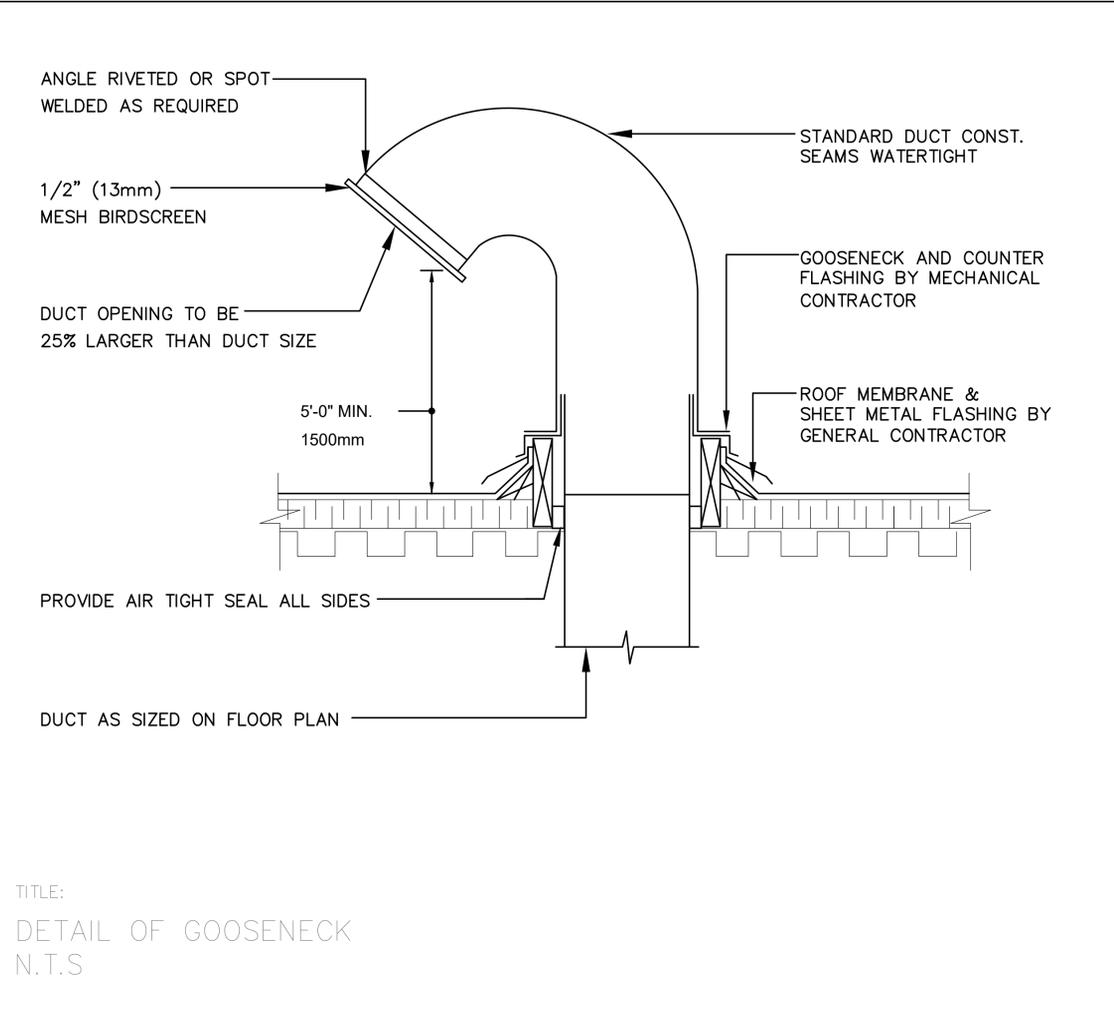
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 3230 WOODWARD AVE, BURLINGTON, ONTARIO, L7N 3P1
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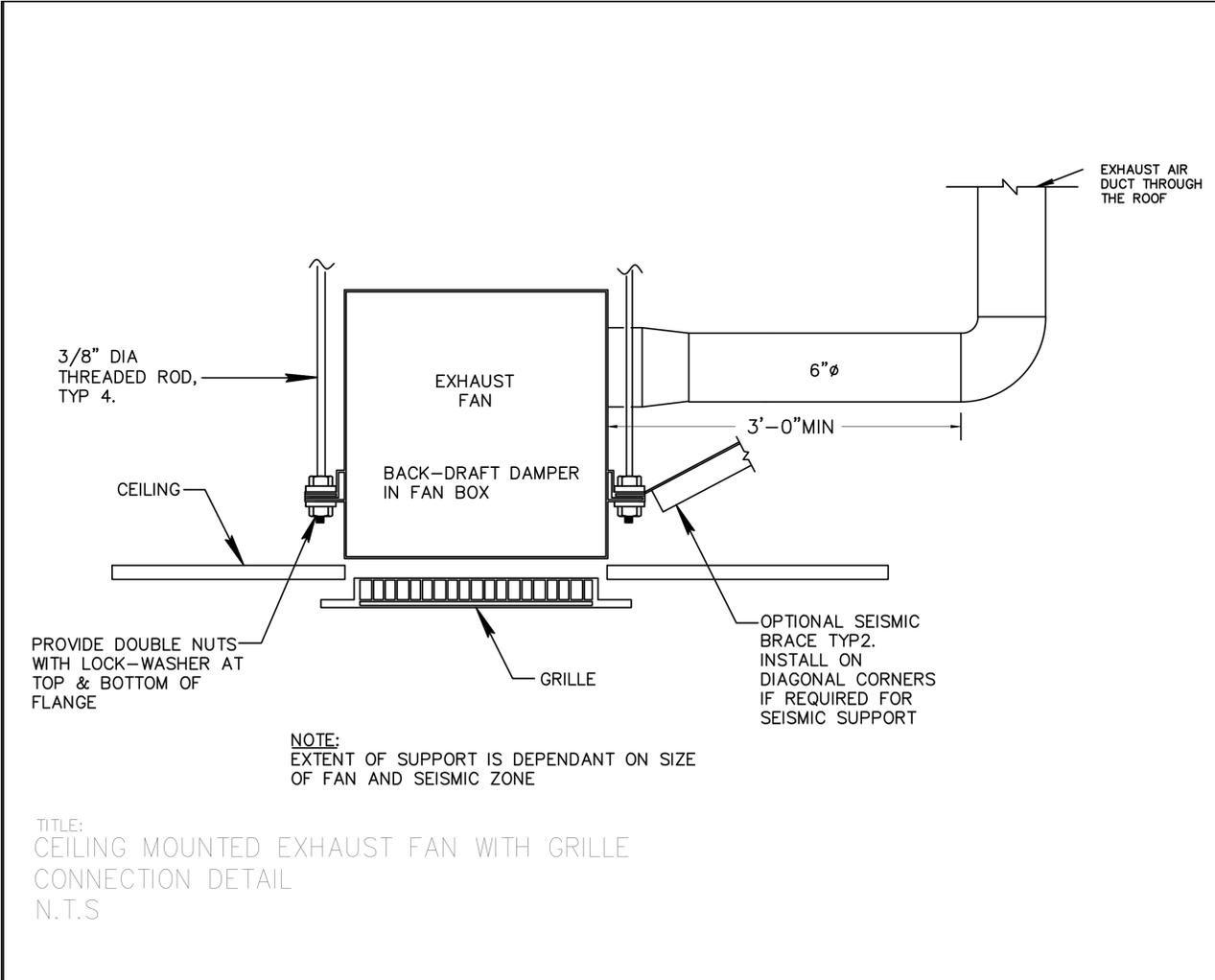
DWG TITLE: MECHANICAL DETAILS



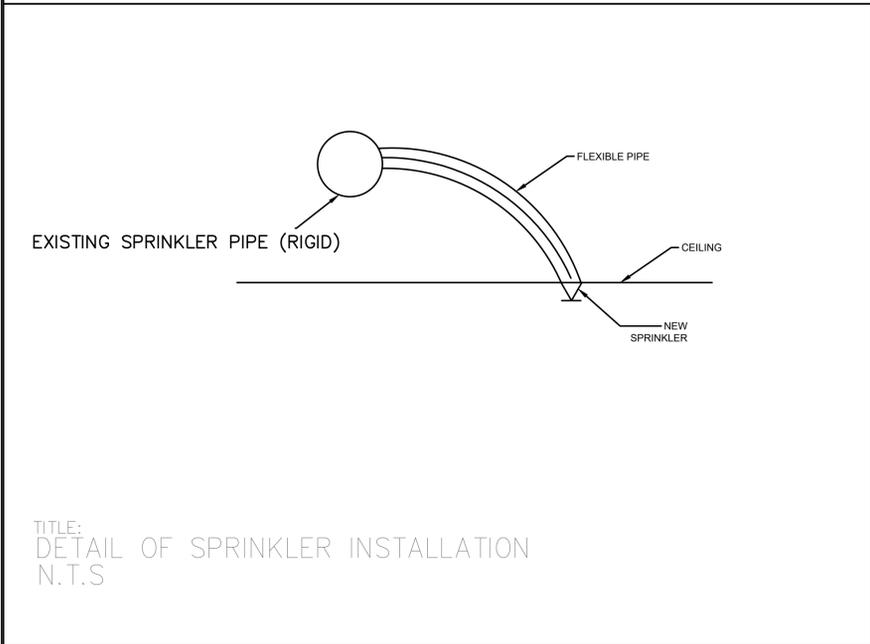
DATE: MAR 2025
 SCALE: N.T.S.
 DRAWN BY: MS
 CHECKED BY: MA
 DWG STATUS: TENDER
 PROJECT No.: 2025-480
 DRAWING No.: M8.0 REVISION



TITLE: DETAIL OF GOOSENECK
N.T.S



TITLE: CEILING MOUNTED EXHAUST FAN WITH GRILLE CONNECTION DETAIL
N.T.S



TITLE: DETAIL OF SPRINKLER INSTALLATION
N.T.S

GENERAL SPECIFICATION

DEFINITIONS

- 1. WHEREVER THE TERM "INSTALL" IS USED IT MEANS INSTALL AND CONNECT COMPLETE.
2. WHEREVER THE TERM "SUPPLY" IS USED IT MEANS SUPPLY ONLY.
3. WHERE THE TERM "PROVIDE" IS RELATION TO EQUIPMENT, ETC., IT MEANS "SUPPLY, INSTALL, CONNECT, AND COMMISSION".
4. WHEREVER THE TERM "REMOVE" IS USED IT MEANS DISCONNECT AND DISPOSE FROM THE BUILDING AND SITE.

ABBREVIATIONS

- 1. "N" NEW ITEM TO BE SUPPLIED AND INSTALLED.
2. "EX" EXISTING ITEM TO REMAIN.
3. "REL" RELOCATE EXISTING ITEM TO NEW LOCATION.
4. "REM" REMOVE EXISTING ITEM.

GENERAL REQUIREMENTS

- 1. THE DRAWINGS AND SPECIFICATIONS WILL BE READ WITH ARCHITECTURAL DRAWINGS. THE OWNER'S BUILDING REQUIREMENTS, THE LEGEND AND SPECIFICATIONS OF THE DRAWING, MAXIMUM CONDITIONS WILL GOVERN. REVIEW MECHANICAL DRAWINGS AND PROVIDE POWER TO ALL MECHANICAL DEVICES WHICH MAY BE ABSENT FROM THE ELECTRICAL DRAWINGS.
2. ACCURATE DIMENSIONS FOR THE WORK MUST BE OBTAINED FROM ARCHITECTURAL OR ACTUAL MEASUREMENT ON THE SITE.
3. VISIT THE SITE PRIOR TO TENDER AND VERIFY ALL CONDITIONS AND DIMENSIONS, INCLUDING LOCATIONS OF EXISTING CAPPED SERVICES, AND ALL FOR ANY EXISTING AND/OR NEW SERVICES AND EQUIPMENT.
4. REPORT TO THE ENGINEER ALL AMBIGUITIES, DISCREPANCIES, OMISSIONS, ERRORS, DEPARTURES FROM BUILDING BYLAWS AND/OR FROM GOOD PRACTICE PRIOR TO COMMENCEMENT OF THE CONTRACTOR'S CONSTRUCTION SCHEDULE.
5. PROVIDE ALL WORK IN ACCORDANCE WITH THE ONTARIO BUILDING CODE, AND THE REQUIREMENTS OF ALL GOVERNING AUTHORITIES, AND LOCAL BY-LAWS.
6. APPLY FOR, OBTAIN AND PAY FOR ALL PERMITS AND INSPECTIONS REQUIRED PRIOR TO COMMENCEMENT OF CONSTRUCTION. INCLUDE ALL PROVINCIAL AND FEDERAL SALES TAXES.
7. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE APPROVED SCHEDULE TO MEET THE PROJECT COMPLETION DATE AND ALL SPECIFIED INTERIM SCHEDULES.
8. COMPLY WITH THE GENERAL CONTRACTOR'S CONSTRUCTION SCHEDULE.
9. MAKE GOOD ALL DAMAGES TO ADJACENT WORK, PROVIDE ALL CUTTING, PATCHING, FLASHING WORK AND CLEAN-UP OF FLOORS, WALLS, CEILING, ETC.
10. PROVIDE PROPER SHOP DRAWINGS OF ALL SPECIFIED PRODUCTS AND SUBMIT FOR APPROVAL TO THE ARCHITECT AND THE ENGINEER.
11. DURING PROGRESS OF WORK, SUBSTITUTE PRODUCTS WILL ONLY BE CONSIDERED WHEN TENDERED PRODUCTS BECOME UNOBTAINABLE AND WRITTEN PROOF IS SUBMITTED.
12. THE QUALITY AND PERFORMANCE CHARACTERISTICS OF SUBSTITUTE PRODUCTS SHALL BE EQUAL TO THE SPECIFIED PRODUCTS. IMPLEMENTATION OF SUBSTITUTE PRODUCTS IS SUBJECT TO THE REVIEW OF PROPERLY SUBMITTED SHOP DRAWINGS TO THE ARCHITECT AND ENGINEER.
13. THE TIME RESPONSIBILITY AND PAY FOR ANY ADDITIONAL INSTALLATION COSTS INCURRED BY ALL DIVISIONS RESULTING FROM THE ALTERNATES AND/OR SUBSTITUTIONS. MAKE REVISIONS TO RECORD DRAWINGS INCORPORATING ALL ALTERNATES AND/OR SUBSTITUTIONS AND ALL RELATED CHANGES.
14. PROVIDE THE OWNER WITH A WRITTEN WARRANTY, FOR ALL LABOUR, MATERIALS AND EQUIPMENT IN THIS CONTRACT, FOR A PERIOD OF ONE YEAR COMMENCING AT SUCH TIME AS THE OWNER, OR HIS REPRESENTATIVE, DEEMS THE WORK ACCEPTABLE.
15. OBTAIN AND PAY FOR ONE (1) SET OF TRANSPARENCIES AND ONE (1) SET OF WHITE PRINTS, MAKE PRINTS TO ACCURATELY INCLUDE INSTALLED WORK, AND TRANSFER ALL INFORMATION ONTO THE SET OF TRANSPARENCIES. UPON COMPLETION OF THE WORK SUBMIT THE COMPLETED RECORD DRAWINGS AND TRANSPARENCIES TO THE ENGINEER AND THE OWNER.
16. ASSEMBLE THREE (3) MANUALS, EACH CONTAINING DATA SHEETS, BROCHURES, OPERATING INSTRUCTIONS, MAINTENANCE SCHEDULES, AND LUBRICATING INSTRUCTIONS AND A COMPLETE SET OF REVIEWED SHOP DRAWINGS AND BIND IN HARD SECTIONS AND VOLUMES. PRESENT ONE (1) COPY FOR REVIEW BY CONSULTANT. MAKE ALL CORRECTIONS REQUESTED BY THE CONSULTANT AND RESUBMIT FOR REVIEW.
17. INCLUDE COST OF PREMIUM IN THE TENDER PRICE FOR WORK DURING NIGHTS, WEEKENDS OR OTHER TIME OUTSIDE NORMAL WORKING HOURS NECESSARY TO MAINTAIN ALL MECHANICAL SERVICES IN OPERATIONS, AND TO COMPLETE THE WORK SUBMISSION FOR EXTRA OR DELETED WORK.
18. PROVIDE A COMPLETE COST BREAKDOWN OF ALL MATERIALS, EQUIPMENTS AND LABOUR COSTS ASSOCIATED WITH EACH SUBMISSION FOR EXTRA OR DELETED WORK.
19. COMPLY WITH ALL TRADES INSTALLING EQUIPMENT WHICH MAY AFFECT THE MECHANICAL WORK AND ARRANGE THE WORK IN PROPER RELATION WITH EQUIPMENT INSTALLED UNDER ALL DIVISIONS OF THE CONTRACT.
20. INSTALL ALL PIPING IN THE BEST WORKMANLIKE MANNER AND IN ACCORDANCE WITH THE BEST PRACTICES OF THE TRADES.
21. PROVIDE SLEEVES FOR ALL NEW PIPING THROUGH EXISTING SLAB, BEAMS, SLAB TO SLAB WALL ETC. WHERE INDICATED AND/OR REQUIRED. OBTAIN BASE BUILDING STRUCTURAL ENGINEER'S APPROVAL PRIOR TO COMMENCEMENT OF WORK.
22. IDENTIFY EACH PIPED AND DUCTED SERVICE COMPLETE WITH DIRECTIONAL FLOW ARROWS. LOCATE IDENTIFICATION AND FLOW ARROWS NOT MORE THAN 12M (40') APART IN STRAIGHT RUNS OF PIPES AND DUCTS. USE WORDING INDICATED ON THE MECHANICAL LEGEND. USE 50MM(2") HIGH STENCIL LETTERS.
23. ALL WALL AND FLOOR OPENINGS SHALL BE PACKED AND SEALED WITH AN APPROVED FIRE RESISTANT INSULATION TO 25MM (1") FROM END SIDE OF OPENING ON BOTH SIDES OF FLOOR OR WALL. REMAINING PORTION SHALL BE SEALED WITH AN APPROVED FIRE STOP SUBSTANCE EQUAL TO 'DOW CORNING' #3-8548 SILICON RTV FOAM PENETRATION SEALANT.
24. IN ALL AREAS REQUIRING CORE DRILLING THROUGH EXISTING FLOOR SLAB FOR MECHANICAL SERVICES, ETC. ALLOW FOR ALL NECESSARY RADIOGRAPHY TO LOCATE HIDDEN ELECTRICAL SERVICES, STRUCTURAL REINFORCING, ETC., AND INCLUDE ALL COSTS IN TENDER PRICE. CO-ORDINATE THIS WORK WITH OWNER COORDINATOR FOR TIME DURATION AND LOCATION REQUIRED AND ADHERE TO THE OWNER'S REQUIREMENTS. SUBMIT CORRECTIVE PLAN TO THE STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO COMMENCEMENT OF WORK.
25. CHECK AND VERIFY LOCATION OF EXISTING MECHANICAL AND ELECTRICAL INTERFERENCES IN CEILING SPACE OF FLOOR BELOW AND/OR BELOW FLOOR SLAB IN ALL AREAS REQUIRING CORE DRILLING AND/OR CUTTING OF FLOOR SLAB ON GRADE AND ENSURE COMPATIBILITY OF AREA BELOW TO THE SATISFACTION OF THE OWNER.
26. ALL SHUTDOWNS OF ANY PORTION OF THE EXISTING BASE BUILDING SYSTEMS SHALL BE PERFORMED BY THE OWNER'S BUILDING OPERATIONS STAFF AND/OR COORDINATED WITH THE OWNER FOR TIME AND DURATION OF INTERRUPTIONS AND ADHERE TO THE OWNER'S INSTRUCTIONS IN THE REGARD. COST FOR SHUTDOWNS, DRAINING AD REFILLING OF BASE BUILDING SYSTEMS SHALL BE INCLUDED IN THE TENDER PRICE.
27. PROVIDE ALL ACCESS DOORS WHERE SHOWN AND/OR REQUIRED BY SITE CONDITIONS. IN CEILING OR WALLS, ACCESS DOORS SHALL BE EQUAL TO MILCOR OR LEHAEG, AND MUST BE COMPATIBLE WITH CEILING/WALL TYPE AND FINISH INSTALLATION TO COMPLY WITH THE ARCHITECT'S APPROVAL. ACCESS DOORS IN RATED CEILING OR WALLS SHALL BE ULC APPROVED FOR THE APPLICATION.
28. RE-USE EXISTING MATERIALS AND EQUIPMENT WHEREVER POSSIBLE AND PROVIDE NEW ONLY WHERE REQUIRED AND AS SPECIFIED TO ENSURE A COMPLETE INSTALLATION. ALL EQUIPMENT, MATERIALS AND ASSOCIATED CONTROLS NOT USED IN THIS CONTRACT SHALL BE RETURNED TO OWNER.
29. CHECK AND VERIFY ON SITE FOR ROUTING OF NEW DUCT WORK, PIPING AND LOCATION OF NEW EQUIPMENT AND INCLUDE IN TENDER PRICE FOR ANY RELOCATIONS OF EXISTING SERVICES OR ADJUSTMENTS OF NEW SERVICES OF EQUIPMENTS AS REQUIRED TO SUIT SITE CONDITIONS. PROVIDE OFFSETS IN PIPING AND CUT WORK AS REQUIRED TO AVOID INTERFERENCES.
30. SEAL AIR TIGHT ALL AROUND DUCT WORK AND PIPING PENETRATIONS THROUGH PARTITIONS ABOVE CEILING WITH APPROVED SEALANT FOR FIRE RATED ASSEMBLIES.
31. ALL DEFICIENCIES MUST BE COMPLETE WITH 4 WEEKS UPON NOTICE ISSUED BY THE ENGINEER. THE ENGINEER MAY HAVE THE DEFICIENCIES COMPLETED BY OTHERS AT THE CONTRACTOR'S EXPENSE, IF THE DEFICIENCIES ARE NOT CORRECTED.
32. ALL ELECTRIC BASEBOARD AND FORCED FLOW HEATER SHALL BE SUPPLIED AND INSTALLED BY THE ELECTRICAL CONTRACTOR. ALL ELECTRIC DUCT HEATERS ARE SUPPLIED AND INSTALLED BY THE MECHANICAL CONTRACTOR, BUT WIRED BY ELECTRICAL.

GENERAL MECHANICAL SPECIFICATION

SCOPE OF WORK

- 1. DIVISION 15 SHALL FURNISH ALL LABOUR, MATERIALS AND EQUIPMENT NECESSARY FOR THE PROPER AND TIMELY COMPLETION OF THE MECHANICAL SYSTEMS AS SHOWN ON THE DRAWINGS AND/OR AS SPECIFIED.
2. THE SPECIFICATIONS SHALL BE CONSIDERED AS AN INTEGRAL PART OF THE PLANS WHICH ACCOMPANY THEM, NEITHER THE PLANS NOR THE SPECIFICATIONS SHALL BE USED ALONE. ANY ITEMS OR SUBJECT OMITTED FROM ONE, BUT WHICH IS MENTIONED OR REASONABLY IMPLIED IN THE OTHER, SHALL BE CONSIDERED AS PROPERLY AND SUFFICIENTLY SPECIFIED, AND MUST, THEREFORE, BE PROVIDED. MISINTERPRETATIONS OF EITHER THE PLANS OR THE SPECIFICATIONS SHALL NOT RELIEVE THIS DIVISION OF RESPONSIBILITY.
3. IT IS THE INTENT THAT THE DRAWINGS AND SPECIFICATIONS DESCRIBE COMPLETE MECHANICAL SYSTEMS. ALL MATERIALS AND EQUIPMENT AND THE FURNISHING OF ALL LABOUR REASONABLY IMPLIED BY THESE DRAWINGS AND/OR THE SPECIFICATIONS SHALL BE INCLUDED TO PROVIDE SYSTEMS READY FOR SATISFACTORY OPERATION. REFER TO ALL OTHER TRADE DRAWINGS AND SPECIFICATIONS TO FULLY CO-ORDINATE THE INSTALLATION OF THE WORK.

STANDARD OF ACCEPTANCE

- 1. THE ITEM NAMED AND SPECIFIED BY MODEL OR CATALOGUE NUMBER FORMS PART OF SPECIFICATION AND SETS THE STANDARD REGARDING PERFORMANCE, QUALITY OF MATERIAL AND WORKMANSHIP.
2. TENDER PRICES SHALL BE BASED ON THE SPECIFIED EQUIPMENT LISTED AS ACCEPTABLE PRODUCT OR AS BASE BID. ALL ALTERNATES OF LISTED EQUIPMENT MUST BE LISTED SEPARATELY ON THE TENDER FORM WITH COST SCHEDULES. THE OWNERS AND THE CONSULTANT HAVE THE OPTION OF ACCEPTING OR REJECTING ALTERNATE EQUIPMENT.
3. THE USE OF ALTERNATE EQUIPMENT SUCH AS HEATING/ COOLING UNITS, FANS, COMPRESSOR/CHILLER UNITS WILL REQUIRE THE SUBMISSION OF DETAILED SCALE SHOP DRAWINGS OF PROPOSED INSTALLATION DETAILS INCLUDING DUCTWORK, PIPING, ELECTRICAL, STRUCTURAL CONNECTIONS, LOADS AND SERVICE CLEARANCES.

CODES, REGULATIONS AND PERMITS

- 1. ALL MECHANICAL WORK SHALL BE INSTALLED, INSPECTED AND TESTED IN ACCORDANCE WITH GOVERNING CODES, RULES AND REGULATIONS OF THE MUNICIPALITY IN WHICH THE WORK IS PERFORMED AND ALSO OF PROVINCIAL AND FEDERAL AUTHORITIES HAVING JURISDICTION.
2. THE DIVISION 15 CONTRACTOR SHALL OBTAIN ALL PERMITS REQUIRED FOR THE INSTALLATION OF MECHANICAL WORK, ARRANGE FOR INSPECTIONS AND TESTS AND PAY ALL FEES AND COSTS FOR THE PERMITS AND INSPECTIONS. ALL NECESSARY PERMITS SHALL BE OBTAINED IMMEDIATELY AFTER NOTIFICATION OF AWARD OF CONTRACT.
3. THE ONTARIO BUILDING CODE AND THE APPLICABLE REQUIREMENTS OF C.S.A., A.S.T.M., ANS, U.L.C., AND NFPA STANDARDS INCLUDING THEIR LATER AMENDMENTS, AS WELL AS PROVINCIAL AND MUNICIPAL BY-LAWS AND REGULATIONS SHALL BE CONSIDERED PART OF THIS SPECIFICATION. LACK OF POSSESSION OF KNOWLEDGE OF ANY CODE OR STANDARD REQUIRED FOR PROPER COMPLETION OF THE WORK SHALL NOT CONSTITUTE SUFFICIENT REASON FOR DEVIATION THEREFROM.

RECORD DRAWINGS

- 1. CLEARLY RECORD ALL CONTRACT CHANGES AND DEVIATIONS FROM THE CONTRACT DRAWINGS ON A SET OF DRAWINGS AVAILABLE FROM THE GENERAL CONTRACTOR FOR THIS PURPOSE AND FORWARDED TO THE GENERAL CONTRACTOR AT THE COMPLETION OF THE PROJECT.

SITE VISIT

- 1. THIS CONTRACTOR SHALL VISIT THE SITE AND EVALUATE ALL EXISTING SITE CONDITIONS AS THEY MAY AFFECT THIS WORK. NO EXTRAS WILL BE ALLOWED FOR ANY EFFECTS FROM FAILING TO COMPLETE A COMPREHENSIVE SITE TOUR TO UNDERSTAND AND ACCOUNT FOR THE IMPACT OF EXISTING SITE CONDITIONS ON THE CONTRACT SCOPE OF WORK.

CUTTING AND PATCHING

- 1. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR AND PAY FOR ALL CUTTING AND PATCHING REQUIRED IN THE SCOPE OF WORK AS DEFINED IN THE GENERAL CONTRACTOR'S MANUAL. ALL CUTTINGS SHALL BE EQUAL TO THOSE OF SURROUNDING SURFACES FOR MATERIALS, COLOUR, TEXTURE AND WORKMANSHIP. THIS DIVISION SHALL CLEARLY MARK OUT ALL OPENINGS REQUIRED AND REVIEW WITH THE GENERAL CONTRACTOR BEFORE CUTTING PROCEEDS. THIS DIVISION SHALL INSTALL ALL OPENING FRAMES, SLEEVES, DUCTWORK AND PIPING, LOUVRES, ETC., INTO THE BUILDING STRUCTURE AS CONSTRUCTION PROGRESSES. ANY ITEMS MISSED DURING CONSTRUCTION THAT MUST BE ADDED WILL BE THE RESPONSIBILITY OF THIS DIVISION AND BE CO-ORDINATED WITH THE GENERAL TRADES.
2. ANY INTERFERENCE ISSUES THAT ARISE SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO DUCTWORK FABRICATION.

CO-ORDINATION

- 1. CONFERENCE AND COOPERATE WITH OTHER TRADES IN ORDER TO ELIMINATE ANY UNNECESSARY DELAYS TO THE CONSTRUCTION SCHEDULE. WHERE DOUBT EXISTS REGARDING OTHER TRADES, CONFERENCE WITH THE SUPERINTENDING WITHOUT DELAY FOR DETAILED INSTRUCTIONS CONCERNING HOW TO PROCEED WITH THE WORK. EXPEDITE DELIVERY OF ALL EQUIPMENT AND MATERIALS TO MEET CONSTRUCTION SCHEDULE.
2. ANY INTERFERENCE ISSUES THAT ARISE SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO DUCTWORK FABRICATION.

COMMISSIONING

- 1. ENSURE THAT ALL EQUIPMENT AND SYSTEMS ARE OPERABLE AND SAFE FOR NORMAL OPERATION. ALL TESTING, ADJUSTING, BALANCING WORK AND RECORD KEEPING SHALL BE PERFORMED PRIOR TO COMMISSIONING. OPERATIONAL TESTS ON EQUIPMENT, DUCTWORK, PIPING AND CONTROL SYSTEMS SHALL BE PERFORMED PRIOR TO COMMISSIONING TO VERIFY THAT PRESSURE AND FLOW RATES MEET DESIGN REQUIREMENTS.
2. SAMPLES, DRAWINGS, CATALOGUES, SPECIFICATIONS, ETC. SUBMITTED FOR APPROVAL SHALL BE PROPERLY LABELLED INDICATING SPECIFIED SERVICES FOR WHICH MATERIAL OR EQUIPMENT IS TO BE USED. THE DRAWINGS AND INFORMATION SHALL INDICATE THE PROJECT NAME AND THE ARTICLE NUMBER OF SPECIFICATIONS RELATING TO SHOP DRAWINGS. THE CONTRACTOR'S NAME AND CONTRACTOR'S SIGNATURE SHALL APPEAR ON ALL COPIES INDICATING THAT THE DRAWINGS HAVE BEEN CHECKED BY THE CONTRACTOR. DRAWINGS NOT SO DESIGNATED WILL BE RETURNED FOR CORRECTION. 'FAX' OR ELECTRONIC COPIES OF SHOP DRAWINGS ARE NOT ACCEPTABLE. PROVIDE COMPLETE, DETAILED WIRING AND CONTROL DIAGRAMS FOR ALL MECHANICAL EQUIPMENT FOR THIS PROJECT. THESE DRAWINGS SHALL BE SUBMITTED AT THE TIME OF SHOP DRAWING REVIEW. EQUIPMENT SHOP DRAWINGS WILL BE REJECTED UNLESS COMPLETE WIRING AND CONTROLS INFORMATION IS SUBMITTED.
3. SUBMIT ELECTRONIC COPIES OF ALL SHOP DRAWINGS. ELECTRONIC SUBMISSIONS WILL BE REVIEWED.

ARRANGEMENT OF PIPING AND DUCTWORK

- 1. CONCEAL PIPING AND DUCTWORK WHEREVER POSSIBLE BY RUNNING IT IN PIPE SPACES, DUCT SHAFTS, CHASES, CEILING SPACES AND FURRED OUT SECTIONS

OF WALLS AND COLUMNS. DO NOT RUN PIPING OR DUCTWORK EXPOSED IN FINISHED AREAS WITHOUT OBTAINING PERMISSION OF THE ENGINEER.

- 2. PIPING OR OTHER EQUIPMENT OR DEVICES IN RETURN AIR PLENUMS SHALL HAVE FLAME SPREAD AND SMOKE DEVELOPMENT RATINGS FOR THAT APPLICATION.

TESTING

- 1. DIVISION 15 SHALL PERFORM TESTS ON ALL PIPING AND EQUIPMENT SYSTEMS AS EQUIPMENT IN VARIOUS SECTIONS OF THESE SPECIFICATIONS AND SHALL PROVIDE ALL NECESSARY PUMPS, COMPRESSORS, GAUGES, RECORDERS AND TEMPORARY CONNECTIONS TO THE PIPING AND EQUIPMENT.
2. ALL TESTS ON PIPING AND EQUIPMENT SHALL BE CONDUCTED BEFORE CONCEALMENT AND BEFORE THE APPLICATION OF PAINT AND INSULATION. AMPLE NOTICE OF THE SCHEDULING OF SUCH TESTS SHALL BE GIVEN. TESTS SHALL BE CONDUCTED IN THE PRESENCE OF THE AUTHORITIES HAVING JURISDICTION.

ACCESS DOOR

- 1. SUPPLY ACCESS DOORS FOR FURRED CEILING OR SPACES FOR SERVICE EQUIPMENT AND DUCT ACCESSORIES OR FOR INSPECTION OF LIFE SAFETY OR OPERATING DEVICES. SUPPLY STAINLESS STEEL ACCESS DOORS FOR TILED, MARBLE, TERRAZO OR SPECIAL SURFACES. STANDARD OF ACCEPTANCE: ZURN, ACDUOR, ANCON.

MAINTENANCE INSTRUCTIONS

- 1. SUPPLY CERTIFIED PERSONNEL TO INSTRUCT OWNERS OPERATING STAFF ON OPERATION OF MECHANICAL EQUIPMENT. SUPPLY MAINTENANCE SPECIALIST PERSONNEL TO INSTRUCT OPERATING STAFF ON MAINTENANCE AND ADJUSTMENT OF MECHANICAL EQUIPMENT AND ANY CHANGES OR MODIFICATIONS IN EQUIPMENT MADE UNDER THE TERMS OF THE GUARANTEE. PROVIDE INSTRUCTION TO OWNERS STAFF DURING REGULAR WORK HOURS PRIOR TO ACCEPTANCE OF THE SYSTEMS FOR REGULAR OPERATION.

BUILDING STRUCTURE

- 1. INITIATE NO DRILLING, CUTTING OR WELDING OF THE BUILDING STEEL OR CONCRETE CONSTRUCTION FOR THE PURPOSE OF SUPPORTING MATERIALS OR EQUIPMENT WITHOUT PRIOR APPROVAL OF THE PRIME CONSULTANT.
2. HANGERS TO STEEL SHALL BE BEAM CLAMPS OR FLANGE HANGERS WHERE POSSIBLE. WHERE ATTACHMENT IS PERMITTED WELDING STUDS OF A SIZE NOT LARGER THAN 1/3MM DIAMETER MAY BE USED. IF LARGER SIZE BOLTS ARE REQUIRED TO SUPPORT THE EQUIPMENT, THESE SHALL BE ATTACHED BY STEEL BOLTS OR BRACKETS, SECURED TO THE BUILDING STEEL BY WELDING OR CUTTING AS APPROVED BY THE ENGINEER.

PIPING AND EQUIPMENT IDENTIFICATION

- 1. IDENTIFY ALL PIPING SYSTEMS. INDICATE PIPE SIZE, SERVICE AND DIRECTION OF FLOW.

- 2. THE LETTERING SHALL BE PROPORTIONAL TO THE OUTSIDE DIAMETER OF THE PIPE OR COVERING RANGING FROM 13 MM HIGH TO 25 MM HIGH. PIPE OR COVERING UP TO 100 MM HIGH ON 300 MM O.D. PIPE OR COVERING. BRADLEY PIPE TAGS SHALL BE THE STANDARD OF LABELS. PIPES SMALLER THAN 20 MM O.D. PIPE OR COVERING MAY BE Banded WITH COLOURED PLASTIC TAPE IN LIEU OF PAINT AND THE CONTENTS IDENTIFIED BY MEANS OF 'DYMO' EMBOSSED PLASTIC LABELS. STENCIL A DIRECTION-OF-FLOW ARROW ON EACH COLOUR BAND. PIPE IDENTIFICATION SHALL BE APPLIED AT EACH HORIZONTAL OR VERTICAL CHANGE IN DIRECTION AND A MAXIMUM OF 12 M. APART.

- 3. ALL EQUIPMENT SHALL BE IDENTIFIED WITH 25 MM HIGH LETTERS IN LAMACOD ENGRAVED SELF ADHESIVE NAMEPLATES.

FIRE SEPARATION

- 1. SUPPLY AND INSTALL ALL FIRE DAMPERS AND FIRE STOP FLAPS C/W FUSIBLE LINKS AND ACCESS PLATES AS REQUIRED UNDER THE ONTARIO BUILDING CODE. DAMPERS SHALL BE TYPE 'B', 100% FREE AREA UNLESS NOTED AND BE U.L.C. LISTED FOR THE SPECIFIC APPLICATION AND INSTALLATION ORIENTATION.
2. INSTALL FIRE DAMPERS IN ACCORDANCE WITH NFPA 90A AND ULC STANDARDS WITH BACKUP ANGLES AND BREAKAWAY JOINTS. PROVIDE DUCT ACCESS DOORS AS WELL AS DRYWALL ACCESS DOORS FOR COMPLETE ACCESSIBILITY.
3. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE LOCATIONS OF ALL FIRE RATED SEPARATIONS APPARENT FROM MECHANICAL OR ARCHITECTURAL DRAWINGS.

GRILLES AND DIFFUSERS

- 4. GRILLES, REGISTERS AND DIFFUSERS SHALL BE THE PRODUCT OF ONE MANUFACTURER FOR GENERIC TYPE, E.G. GRILLES AND REGISTERS BY ONE, DIFFUSERS BY ONE, OR SAME. REFER TO THE SCHEDULE ON THE DRAWINGS; BASE BID: E.H. PRICE

H.V.A.C & DUCT WORK

- 1. ALL DUCT WORK AND HANGERS SHALL BE FABRICATED IN ACCORDANCE WITH THE LATEST ASHRAE AND SMACNA RECOMMENDATIONS.
2. NOTE THAT DIMENSIONS ON DRAWINGS ARE CLEAR INSIDE DIMENSIONS, WHEN ACOUSTIC INSULATION IS INSTALLED. INCREASE DIMENSIONS ACCORDINGLY.
3. MAKE GOOD ALL EXISTING INSULATION WHEN CONNECTION TO EXISTING
4. PROVIDE DUCT ACCESS DOORS, MINIMUM 375 MM X 300 MM (15" X 12") SIZE FOR EQUIPMENT SUCH AS COILS (BOTH SIDES OF COIL), FIRE AND/OR SMOKE DAMPERS, CONTROL AND/OR BALANCING DAMPERS, HEAT AND/OR BALANCING DAMPERS, HEAT AND/OR SMOKE DETECTORS, BACK-DRAFT DAMPERS, ETS. AS REQUIRED FOR PROPER SERVICEING.
5. FLEXIBLE DUCTS SHALL BE FLEXMASTER OR APPROVED EQUAL, TRIPLE COIL ALUMINUM FLEXIBLE DUCTS, SPIRAL WOUND ALUMINUM STRIP WITH TRIPLE MECHANICAL LOCK SEAM. DUCTS SHALL CONFORM TO NFPA-80A AND UL-181. FLEXIBLE DUCTS SHALL BE OF SIZE EQUAL TO DIFFUSER NECK SIZE. USE GEAR CLAMPS FOR SECURING FLEXIBLE DUCTS TO RIGID DUCT CONNECTIONS SUCH AS SPIN-ON FITTING, ETC. AND NECKS OF DIFFUSERS AND SEAL AIR TIGHT WITH DUCT TAPE. ROUND FLEXIBLE DUCTS SHALL BE MAXIMUM 2.4M (8'-0") LONG AND REMAINDER SHALL BE ROUND RIGID DUCT.
6. FINAL LOCATION OF NEW SUPPLY AIR DIFFUSERS, BOOTS, LIGHT PROFFERS, REGISTERS, RETURN AND EXHAUST AIR GRILLES SHALL BE COORDINATED WITH THE LATEST ARCHITECTURAL REFLECTED CEILING PLAN.
7. RELOCATED AND REUSE EXISTING DIFFUSERS AND GRILLES AS INDICATED ON PLAN. PROVIDE NEW DUCT WORK ONLY IF NECESSARY AND REUSED EXISTING WHEREVER POSSIBLE AND WHERE CONDITIONS PERMIT.
8. PROVIDE FIRE DAMPERS WHERE SHOWN ON DRAWING AND/OR WHERE REEQUIPPED BY LOCAL AUTHORITIES AND/OR APPLICABLE CODES IN DUCT SECTIONS COMPLETE WITH APPROVED ACCESS DOORS.
9. FIRE DAMPERS SHALL BE LABELLED, FABRICATED AND INSTALLED IN DUCT SLEEVE IN ACCORDANCE WITH NFPA-90A, CUA-90-1 AND APPROVAL OF ALL AUTHORITIES HAVING JURISDICTION.
10. PROVIDE NEW BALANCING DAMPERS FOR ALL NEW AND EXISTING DUCT BRANCHES, AND IN ALL LOCATIONS NECESSARY FOR BALANCING THE AIR SYSTEMS, WITH SUITABLE MEANS OF CEILING ACCESS. PROVIDE VOLUME DAMPERS FOR ALL NEW SUPPLY AIR DIFFUSERS AND REGISTERS.
11. TEST, BALANCE, AND ADJUST ALL AIR SYSTEM TO OBTAIN THE DESIGN AIR QUANTITIES, SPECIFIED FLOW RATES AND TEMPERATURE RISES/DROPS ACROSS TERMINAL HEATING/COOLING ELEMENTS, COILS AND HEAT EXCHANGER INDICATED ON PLANS. BALANCING VALVES AND BALANCE FITTINGS. SUBMIT AIR SYSTEM TEST AND BALANCE REPORT TO THE ENGINEER AND OWNER IN AREAS WITH DRYWALL CEILING, THIS WORK SHALL BE DONE PRIOR TO ENCLOSING OF CEILING SPACE.
12. PROVIDE ALL CONTROLS, WIRING AND APPURTENANCES NECESSARY FOR COMPLETE AND OPERATING SYSTEMS.
13. CALIBRATE AS REQUIRED, EXISTING THERMOSTATS NOTED TO BE REUSED OR RELOCATED AND SUBMIT WRITTEN REPORT.
14. UNLESS OTHERWISE NOTED, DUCT WORK SHEET METAL TO BE AS FOLLOWS:
LONGEST SIDE US GAUGE LONGEST SIDE US GAUGE
UP TO 12" 26 31" TO 56" 22
13" TO 30" 24 58" TO 84" 20
13. PITTSBURGH SEAMS SHALL BE USED ON LONGITUDINAL JOINTS AND HANGER SEAMS TO MAKE AIR TIGHT. CROSS BREAK AL SHARP 90 DEGREE ELBOW.
16. ALL RADIUS ELBOWS MUST BE AT LEAST 1-1/2 TIMES THE WIDTH OF THE DUCT, OR PROVIDE TURNING VANES IN A SHARP 90 DEGREE ELBOW.
17. THE SUPPLY AND RETURN DUCT WORK 10"-0" FROM THE AIR HANDLING UNIT SHALL BE LINED WITH 1" ACOUSTIC FIBREGLASS INSULATION AND NEOPRENE COATED. THE DUCT SIZES ON THE DRAWINGS ARE INTERNAL, INCREASE THE

- DUCT SIZE TO SUIT THE INSULATION.
18. CEILING SPACE USED AS RETURN AIR PLENUM SHALL NOT CONTAIN ANY COMBUSTIBLES.
19. DUCT WORK MUST BE INDEPENDENTLY SUPPORTED FROM THE BUILDING STRUCTURE.
20. FLEXIBLE DUCTS SHALL BE ALUMINIUM TYPE AND MUST NOT EXCEED 8 LINEAR FEET LONG. CLAMPS OR SCREWS MUST BE USED WHERE FLEX ARE SECURED TO RIGID DUCTS. DUCT TAPES ALONE ARE NOT PERMITTED.
21. PROVIDE DUCT PLENUM FOR ALL ROOF MOUNTED EXHAUST FANS, AND THE PLENUM SHALL BE INSULATED WITH 1" FIBREGLASS TO PREVENT CONDENSATION.
22. ALL EXISTING DUCT WORK SHOULD BE CLEANED OF ALL DIRT.

DUCT WORK INSULATION

- 1. ALL INSTALLATION SHALL BE IN ACCORDANCE TO ASHRAE GUIDELINES.
2. PROVIDE 25MM (1") THICK ACOUSTIC INSULATION FOR NEW SUPPLY, RETURN OR EXHAUST DUCTWORK 10"-0" FROM AIR HANDLING UNIT, 24.03 KG/M³ (1.5 LB/CU.FT. DENSITY NEOPRENE FACED) INTERNAL FIBREGLASS INSULATION. REMAINDER OF RIGID SUPPLY AIR DUCTWORK SHALL BE THERMALLY INSULATED.
3. NOTE THAT DIMENSIONS ON DRAWINGS ARE CLEAR INSIDE DIMENSIONS, WHEN ACOUSTIC INSULATION IS INSTALLED. INCREASE DIMENSIONS ACCORDINGLY.
4. INSULATE ALL NEW SUPPLY AIR RIGID DUCTWORK UP TO 800MM (32") WIDE OR DIAMETER WITH 25MM (1") THICK FLEXIBLE GRASS FIBRE DUCT INSULATION, 18.42 KG/M³ (1.5 LB/CU.FT) DENSITY WITH FIRE RESISTIVE GLASS FIBRE REINFORCED THICK GLASS FIBRE DUCT INSULATION 48.06 KG/M³ (3LB/CU.FT.) DENSITY WITH FIRE RESISTIVE GLASS FIBRE REINFORCED KRAFT PAPER AND ALUMINIUM FOIL VAPOUR BARRIER.
5. FOR EXTERIOR INSULATION, PROVIDE 2" THERMAL INSULATION ON THE EXTERIOR AND 1" ACOUSTIC LINING. THE INSULATION SHOULD BE RIGID INSULATION COMPLETE WITH ALUMINIUM JACKETS.
INSULATION: ASTM C612; RIGID, NONCOMBUSTIBLE BLANKET.
.1 KSI VALUE : ASTM C518,0.036 AT 75.2 F (24 °C).
.2 MAXIMUM SERVICE TEMPERATURE: 250 °F (121 °C).
.3 MAXIMUM MOISTURE ABSORPTION: 0.20 PERCENT BY VOLUME.
.4 DENSITY: 48 KG/CU M.
VAPOUR BARRIER JACKET:
.1 KRAFT PAPER WITH GLASS FIBRE YARN AND BONDED TO ALUMINIZED FILM.
.2 MOISTURE VAPOUR TRANSMISSION: ASTM E96, 0.04 PERM.
.3 SECURE WITH PRESSURE SENSITIVE TAPE.
ALUMINIUM JACKET: ASTM B209M.
.1 THICKNESS: 0.40 MM SHEET.
.2 FINISH: SMOOTH.
.3 JOINING: LONGITUDINAL SLIP JOINTS AND 2" (50 MM) LAPS.
.4 FITTINGS: 0.4 MM THICK DIE SHAPED FITTING COVERS WITH FACTORY ATTACHED PROTECTIVE LINER.
.5 METAL JACKET BANDS: 3/8" (10 MM) WIDE; 0.015" (0.38 MM) THICK ALUMINUM.

GENERAL NOTES

- 1. FINAL LOCATIONS OF AL THERMOSTATS SHALL BE CO-ORDINATED WITH ARCHITECT AND GENERAL CONTRACTOR TO SUIT FURNITURE LAYOUT AND TO AVOID INTERFERENCE WITH OTHER DEVICES. DISCONNECT AND RELOCATE EXISTING THERMOSTATS OUTWARD AS REQUIRED TO SUIT THE REFINISHING OF EXISTING WALL.
2. THE CONTRACTOR MUST ENSURE THAT ALL EQUIPMENT ARE COMPLETE WITH ALL NECESSARY CONTROLS TO PROVIDE COMPLETE OPERATIONAL SYSTEMS.
3. THE MECHANICAL CONTRACTOR SHALL PROVIDE ALL CONTROLS AND WIRING TO SUPPORTS THERMOSTATS OUTWARD AS REQUIRED TO SUIT THE REFINISHING OF EXISTING WALL.
4. THE CONTRACTOR MUST INCLUDE THE STARTUP, COMMISSIONING AND AIR BALANCING IN HIS PRICE. SUBMIT TESTING AND BALANCING REPORTS TO THE ENGINEER PRIOR TO THE HOLDBACKS BEING RELEASED.
5. SUBMIT A CERTIFICATE TO PROVE THAT ALL EQUIPMENT ARE CLEANED, LUBRICATED AND TESTED. ALL GAUGES AND INSTRUMENTS MUST BE CALIBRATED PRIOR TO START-UP.
6. ALL PIPING MUST BE PRESSURE TESTED TO 150% OF DESIGN CONDITIONS. PROVIDE A CERTIFICATE TO THE ENGINEER.
7. THE AIR BALANCING SUBCONTRACTOR MUST BE APPROVED BY THE ENGINEER PRIOR TO THE ACTUAL WORK BEING DONE. CORRECT ALL DEFICIENCIES NOTED BY THE AIR BALANCE CONTRACTOR.
8. ALL NEW OR RE-USED, RE-INSTALLED EQUIPMENT MUST BE CLEANED, LUBRICATED, AND TESTED. THEN WORK IS TO BE DOWN BY QUALIFIED AND CERTIFIED TECHNICIAN, PROVIDE A CERTIFICATE TO THE ENGINEER STATING COMPLETION OF THE WORK.
9. APPROVED BALANCING CONTRACTOR- COMPANY SPECIALIZING IN THE TESTING, ADJUSTING AND BALANCING OF SYSTEMS WITH A MINIMUM OF 5 YEARS OF DOCUMENTED EXPERIENCE AND SHALL BE CERTIFIED BY AAEC & NEBB.

AIR BALANCING

- 1. THE CONTRACTOR MUST ENSURE THAT ALL EQUIPMENT ARE COMPLETE WITH ALL NECESSARY CONTROLS TO PROVIDE COMPLETE OPERATIONAL SYSTEMS.
2. THE MECHANICAL CONTRACTOR SHALL PROVIDE ALL CONTROLS AND WIRING TO SUPPORTS THERMOSTATS OUTWARD AS REQUIRED TO SUIT THE REFINISHING OF EXISTING WALL.
3. SUBMIT 2 SETS OF OPERATING MANUALS OF ALL EQUIPMENT TO THE ENGINEER.
4. THE CONTRACTOR MUST INCLUDE THE STARTUP, COMMISSIONING AND AIR BALANCING IN HIS PRICE. SUBMIT TESTING AND BALANCING REPORTS TO THE ENGINEER PRIOR TO THE HOLDBACKS BEING RELEASED.
5. SUBMIT A CERTIFICATE TO PROVE THAT ALL EQUIPMENT ARE CLEANED, LUBRICATED AND TESTED. ALL GAUGES AND INSTRUMENTS MUST BE CALIBRATED PRIOR TO START-UP.
6. ALL PIPING MUST BE PRESSURE TESTED TO 150% OF DESIGN CONDITIONS. PROVIDE A CERTIFICATE TO THE ENGINEER.
7. THE AIR BALANCING SUBCONTRACTOR MUST BE APPROVED BY THE ENGINEER PRIOR TO THE ACTUAL WORK BEING DONE. CORRECT ALL DEFICIENCIES NOTED BY THE AIR BALANCE CONTRACTOR.
8. ALL NEW OR RE-USED, RE-INSTALLED EQUIPMENT MUST BE CLEANED, LUBRICATED, AND TESTED. THEN WORK IS TO BE DOWN BY QUALIFIED AND CERTIFIED TECHNICIAN, PROVIDE A CERTIFICATE TO THE ENGINEER STATING COMPLETION OF THE WORK.
9. APPROVED BALANCING CONTRACTOR- COMPANY SPECIALIZING IN THE TESTING, ADJUSTING AND BALANCING OF SYSTEMS WITH A MINIMUM OF 5 YEARS OF DOCUMENTED EXPERIENCE AND SHALL BE CERTIFIED BY AAEC & NEBB.

PIPE SYSTEMS

- ALL PIPING SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE ANSL/ASME B31.1 UNLESS OTHERWISE SPECIFIED HEREIN. PROVIDE INSERTS, SLEEVES AND ANCHORS WHERE NECESSARY AND COORDINATE WITH OTHER TRADES TO THE FULLEST EXTENT IN THE PROVISION OF OPENINGS, CHASES, ETC. TO ACCOMMODATE THE PIPING SYSTEMS.

PIPE GRADES AND SLOPES

- 20. DRAINS AND WASTE PIPING SHALL SLOPE DOWN IN THE DIRECTION OF FLOW AT THE RATE OF 2% FOR 90 SIZE AND UNDER AND 1/111 IN PER FOOT FOR 100 SIZE AND LARGER. WHERE SLOPES FOR PIPING SERVICES INDICATED HEREIN ARE LESS THAN THOSE ESTABLISHED BY APPLICABLE CODES AND REGULATIONS, THE LATTER SHALL GOVERN.
21. ALL WATER SUPPLY PIPING SHALL BE GRADED SO THAT THE SYSTEM MAY BE COMPLETELY DRAINED THROUGH RISERS, DRIPS AND FIXTURES. FOR THIS PURPOSE, DRAIN COCKS SHALL BE PROVIDED AT ALL LOW POINTS OF THE SYSTEM. FLEXIBLE DUCT AND COLD WATER PIPING SHALL GRADE UP IN THE DIRECTION OF FLOW AT THE RATE OF 2% CIRCULATION PIPING SHALL GRADE DOWN IN THE DIRECTION OF FLOW AT 2%.

DISSIMILAR METALS

- 1. SEPARATE DISSIMILAR METALS IN ORDER TO PREVENT GALVANIC CORROSION.
2. PROVIDE GASKETS OR SHIMS OF APPROVED MATERIALS TO AVOID ELECTROLYTIC ACTION.
3. USE DIELECTRIC UNIONS AND/OR FLANGES WHERE PIPING OF DISSIMILAR METALS ARE CONNECTED.

PIPE EXTENSION AND CONTRACTION

- 1. ALL PIPING SHALL BE INSTALLED IN SUCH A MANNER AS TO AVOID UNDUE STRESS AND DISTORTION DUE TO EXPANSION AND CONTRACTION. PROVIDE FOR EXPANSION AND CONTRACTION BY THE USE OF EXPANSION LOOPS FOR STEEL PIPE AND 40 MM PER 30 M OF PIPE PER 38 DEG. C. TEMPERATURE RISE FOR BRASS OR COPPER PIPE.
2. PROVISION FOR EXPANSION AND CONTRACTION SHALL BE MADE ON THE BASIS OF 25 MM PER 30 M OF PIPE PER 38 DEG. C. TEMPERATURE RISE FOR STEEL PIPE AND 40 MM PER 30 M OF PIPE PER 38 DEG. C. TEMPERATURE RISE FOR BRASS OR COPPER PIPE.

ELEVATIONS

- 1. PROPOSED AND EXISTING ELEVATIONS, LOCATIONS, AND SIZES OF EXISTING SERVICES SHALL BE VERIFIED PRIOR TO STARTING WORK, INCLUDING RIGID PIPING FLOOR, CEILING, AND STRUCTURAL STEEL, CONCRETE, AND WOOD ELEVATIONS.

PIPE HANGERS AND SUPPORTS

- 1. FABRICATE HANGERS, SUPPORTS AND SWAY BRACES IN ACCORDANCE WITH ANSL/ASME B31.1.
2. SUPPORT FROM STRUCTURAL MEMBERS, WHERE STRUCTURAL BEARINGS DO NOT EXIST OR INSERTS ARE NOT IN SUITABLE LOCATIONS, SUSPEND HANGERS FROM STEEL CHANNELS OR ANGLES. DIVISION 15 SHALL PROVIDE SUPPLEMENTARY STRUCTURAL MEMBERS. DO NOT SUSPEND FROM METAL DECK. ANCHORING OF PIPING AND EQUIPMENT SHALL BE TO MANUFACTURER'S RECOMMENDATIONS.

SUBMIT ANCHORAGE SYSTEMS, ARRANGEMENT AND TYPE OF HANGERS SUPPORTS WITH CALCULATIONS FOR REVIEW.

SLEEVES AND ESCUTCHEONS

- 1. PIPE SLEEVES: AT POINTS WHERE PIPES PASS THROUGH MASONRY OR CONCRETE. SLEEVES OF: MINIMUM 0.8 MM THICK GALVANIZED SHEET STEEL WITH LOCK SEAM JOINTS. USE CAST IRON SLEEVE OR STEEL PIPE SLEEVES WITH ANNULAR FIN CONTINUOUSLY WELDED AT MIDPOINT;
1. THROUGH FOUNDATION WALLS.
2. WHERE SLEEVE EXTENDS ABOVE FINISHED FLOOR: EXTEND UP 50 MM, CAULK AND SEAL WHEN PIPE IS INSTALLED.
2. FOR PIPES PASSING THROUGH ROOFS, USE "THALER ROOFING PRODUCTS" INSULATED ALUMINUM CONE FLASHINGS AND FLASHING CLAMP DEVICE WITH TAMPER PROOF VENT TOP. ANCHOR SLEEVES IN ROOF CONSTRUCTION: FASTEN ROOF FLASHING TO CLAMP DEVICE: MAKE WATER-TIGHT DURABLE JOINT.

FIRESTOPPING

WHERE PIPES AND DUCTS PASS THROUGH FIRE RATED WALLS, FLOORS AND PARTITIONS, PACK SPACE WITH MATERIALS HAVING APPROVAL OF AUTHORITIES HAVING JURISDICTION.

DIVISION 15 TO PROVIDE ALL MATERIALS AND LABOUR TO COMPLETE U.L.C. FIRESTOPPING FOR DIVISION 15 WORK.

PIPING MATERIALS

EXT-EXTERIOR BUR-BURIED PIPING
INT-INTERIOR A.G.-ABOVE GRADE

Table with columns: SERVICE, INT, BUR, A, G, MATERIAL, CODE, MECH. JOINTS. Rows include SANITARY SEWERS - ALL SIZES, VENTING, COLD WATER, DOMESTIC HOT WATER.

PIPE HANGER SPACING SCHEDULE table with columns: SERVICE, HANGER SPACING (FT.), PIPE SIZE (MM.). Rows include CW (TYPE 'L' COPPER) HARD TEMPER.

DIELECTRIC HANGERS

- 1. PROVIDE WHEREVER PIPES OF DISSIMILAR METALS ARE JOINED. PROVIDE INSTALLING UNIONS FOR PIPE SIZES NPS 2. AND UNDER THE FLANGES FOR PIPE SIZES OVER NPS 2. STANDARD OF ACCEPTANCE: WATTS

RECORD DRAWINGS

- 1. INSTALL ON ALL PIPING AND FOR ALL BRANCH LINES AND AS INDICATED ON PIPING SCHEMA TICS WHERE BALANCE VALVES (C.B.V.) ARE SHOWN.
2. ACCEPTABLE PRODUCTS SHALL BE BY TOUR AND ANDERSON.

The Contractor shall verify all dimensions prior to commencement of the work. All print and specifications are the property of the Architect and must be returned upon completion of the work.

ISSUE OR REVISION

Table with columns: No., Description, Date. Rows 1-6 showing issue and revision details.

WHERE PIPES AND DUCTS PASS THROUGH FIRE RATED WALLS, FLOORS AND PARTITIONS, PACK SPACE WITH MATERIALS HAVING APPROVAL OF AUTHORITIES HAVING JURISDICTION.

DIVISION 15 TO PROVIDE ALL MATERIALS AND LABOUR TO COMPLETE U.L.C. FIRESTOPPING FOR DIVISION 1

PLUMBING

- PLUMBING SERVICES ARE TO BE SUPPLIED AND INSTALLED IN ACCORDANCE WITH: THE ONTARIO BUILDING CODE (2006) THE WATER RESOURCES ACT (REG. 815) ASHRAE/IES 90.1 (2004) FEDERAL, PROVINCIAL OR LOCAL AUTHORITIES HAVING JURISDICTION.
- HOT AND COLD PORTABLE WATER PIPING TO BE TYPE-L COPPER (CONFORM TO ASTM-B88) WITH SOLDER-JOINT FITTINGS (CONFORM TO ANSI-B16.18 OR ANSI-B16.22).
- BURIED DRAINAGE PIPING INSIDE THE BUILDING TO BE ABS PLASTIC (CERTIFIED TO CAN/CSA-B181.1) WITH SOLVENT CEMENT JOINT (CONFORM TO CAN/CSA-181.1).
- ALL ABOVE GRADE SANITARY DRAINS AND VENT STACKS TO BE CAST IRON, NO HUB, WITH MJ JOINTS (CERTIFIED TO CSA-B70). BRANCH VENTS AND ABOVE GRADE SANITARY DRAINS MAY BE COPPER DRAINAGE TUBE (DWV) (COMPLY WITH ASTM-B306) WITH SOLDER JOINT FITTINGS (CONFORM TO ANSI-B16.29).
- STANDARD FLOW ROOF DRAINS TO BE SMITH SERIES 1010ERCCID ROOF DRAIN, ALL DUCO COATED 15" (380MM) DIA. CAST IRON BODY, WITH UNDER DECK CLAMP, ADJUSTABLE EXTENSION AND SUMP RECEIVER, 11" (280MM) SECURED C.I. DOME. ON SMALL AREA ROOFS PROVIDE SERIES 1330ERCCID DRAIN, WITH 8 1/2" (212MM) ALUMINUM DOME. IN PATIO AND TRAFFIC AREAS PROVIDE SERIES 1470ERCCNB DRAIN, WITH ADJUSTABLE SLOTTED EXTENSIONS AND 8" X 8" (200MM X 200MM) NICKEL BRONZE SQUARE PROMENADE TOP. INVERTED ROOF INSTALLATION USE SERIES 1017EPROCID DRAINS.
- FLOW CONTROL ROOF DRAINS SMITH SERIES 1083ERCCID FLOW CONTROL ROOF DRAIN SLOPED ROOF ALL DUCO COATED CST IRON BODY, WITH ECK CLAMP, ADJUSTABLE DETENTION AND SUM RECEIVER, 11" (280MM) SECURED C.I. DOME AND 6" HIGH (150MM) FLOW RATE CONTROL WEIR. INVERTED ROOF INSTALLATION US SERIES 1017-B5-ERPCOOD DRAINS.
- PARAPET, SCUPPER DRAINS, GUTTER, AND PIT DRAINS TO BE SMITH SERIES 1510/30S6 SCUPPER DRAIN, ALL DUCO COATED CAST IRON BODY, WITH SECURED ANGLED GRATE, FLASHING CLAMP AND 45 DEGREE OR 90 DEGREE OUTLETS. FOR GUTTER INSTALLATION USE SMITH SERIES 1630, WITH 4 1/2 (114MM) HIGH DOME.
- FLOOR DRAINS IN FINISHED AREAS TO BE SMITH SERIES 2005A FLOOR DRAIN, ALL DUCO COATED CAST IRON BODY, REVERSIBLE CLAMP DEVICE AND ADJUSTABLE 5" DIAMETER (127MM) NICKEL BRONZE 1/4" (6.35MM) THICK STRAINER, SECURED WITH I.S.S. SCREWS, 4" (100MM) THROAT ON STRAINER. IN QUARRY OR MOSAIC TILED AREAS, PROVIDE SQUARE 9" X 9" (127MM X 127MM) POLISHED BRONZE (PB) SQUARE STRAINER. FLOOR DRAIN WITH FUNNEL PROVIDE 2005A-3580NB.
- FLOOR DRAINS IN MECHANICAL ROOMS AND UNFINISHED AREAS TO BE SMITH SERIES 2320 FLOOR DRAIN, ALL DUCO COATED CAST IRON BODY, SEEPAGE FLANGE, ADJUSTABLE COLLAR, CALMING DEVICE AND 8" (200MM) DIAMETER GRATE. FLOATING FLOORS PROVIDE 9340, WITH MOMENT COMPENSATOR AND VIBRATION ISOLATOR.
- FLOOR DRAINS WITH COMBINATION FUNNEL TO BE SMITH SERIES 2320-3581FUNNEL FLOOR DRAIN, ALL DUCO COATED CAST IRON BODY, SEEPAGE FLANGE, ADJUSTABLE COLLAR, CLAMPING DEVICE AND 8-1.2" (216MM) WITH 4" X 9" (101.6MM X 228.6MM) OVAL FUNNEL. FLOATING FLOOR PROVIDE 9340-3591, WITH MOVEMENT COMPENSATOR AND VIBRATION ISOLATOR.
- EXTERIOR NON-FREEZE WALL HYDRANT TO BE SMITH SERIES 56090TNB HYDRANT, 1/4 TURN NON-DRIOP, CERAMIC CARTRIDGE, 3/4" (19MM) NON-FREEZE WALL TYPE WITH BRONZE FACE, ADJUSTABLE WALL-FLANGE, OPERATION KEY AND SERF-DRAINING INTEGRAL VACUUM BREAKER. LENGTH TO SUIT WALL THICKNESS.
- INTERIOR HOSE BIBB TO BE CAMBRIDGE BRASS #32W201 HOSE BIBB, 1/2" (12.7MM) SIZE, WALL TYPE ROUGH BRONZE WITH HOSE END VACUUM BREAKER.
- LINE CLEANOUTS TO BE SMITH SERIES #4420 LINE CLEANOUTS, IN CAST IRON PIPE WITH BOLTED NEOPRENE CASKITED COVER SECURED TO BODY WITH BRASS BOLTS, WITH FULL SIZE PIPE OPENING.
- STACK CLEANOUT TO BE SMITH SERIES #4510 STACK CLEANOUT, IN BASE OF CAST IRON STACK WITH NEOPRENE CASKITED COVER. WHERE CLEANOUTS ARE CONCEALED BEHIND FINISHED WALLS ACCESS SHALL BE MADE BY SMITH 4530 ROUND STAINLESS STEEL PLATE AND SLOTTED FLAT HEAD STAINLESS STEEL SCREWS.
- URINAL CLEANOUT TO BE SMITH SERIES S04-1819 URINAL WALL ACCESS CLEANOUT , WITH S.S BOLT AND WING NUT, COMPLETE WITH ROUND POLISHED S.S. ACCESS COVER AND SECURED WITH V.P. SCREW.
- FLOOR CLEANOUTS IN UNFINISHED AREAS AND OUTSIDE AREAS, SMITH SERIES 4220 FLOOR CLEANOUT, DUCO COATED CAST IRON BODY WITH INTEGRAL CLAMP DEVICE, AND REMOVABLE POSITIVE SEAL CLOSURE PLUG AND HEAVY DUTY 6" (150MM) ADJUSTABLE COVER SECURED WITH STAINLESS STEEL SCREWS.
- FLOOR CLEANOUTS IN TILED AREAS, SMITH SERIES 4140 FLOOR CLEANOUT, SAME AS ABOVE WITH SQUARE NICKEL BRONZE COVER AND FRAME RECESSED FOR TILE. COVER CAN BE ADJUSTED TO SUIT FLOOR LINES WHEN INSTALLING FINISHED FLOOR.
- FLOOR CLEANOUTS IN TERRAZZO AREAS, SMITH SERIES 4180 FLOOR CLEANOUT, SAM AS ABOVE WITH SQUARE NICKEL BRONZE COVER AND FRAME RECESS FOR TERRAZZO. COVER CAN BE ADJUSTED TO SUIT FLOOR LINES WHEN INSTALLING FINISHED FLOOR.
- FLOOR CLEANOUTS IN CARPETED AREAS, SMITH SERIES 4020Y FLOOR CLEANOUT, SAME AS ABOVE WITH NICKEL BRONZE COVER AND FRAME.
- FLOOR CLEANOUTS IN OTHER FINISHED AREAS, SMITH SERIES 4020 FLOOR CLEANOUT, SAME AS ABOVE WITH NICKEL BRONZE FRAME AND COVER.
- FLOOR CLEANOUTS FOR HEAVY TRAFFIC AREAS, SMITH SERIES 4100 FLOOR CLEANOUT, SAME AS ABOVE WITH EXTRA HEAVY NICKEL BRONZE COVER AND FRAME.
- TRAP SEAL PRIMER SERVING 1 OR 2 DRAINS TO BE P.P.P. INC. MODEL PO-500 AUTOMATIC TRAP SEAL PRIMER VALVE, SEARING INDIVIDUAL OR REMOTE AREA DRAINS WITH 1/2" NPT (MTOF) CONNECTIONS WITH STRAINER AND INTEGRAL BACK FLOW PREVENTER & VACUUM BREAKER.
- PROVIDE ISOLATION VALVES ON ALL MAIN LINES, BRANCH LINES AND AT PIECES OF EQUIPMENT. ALL VALES SHALL BE JENKINS, CRANE OR EQUAL WITH A MINIMUM RATING OF 125% OF THE SYSTEM DESIGN PRESSURE.
- ALL ABOVE GRADE PIPING IS TO BE INSULATED WITH FIBREGLASS INSULATION TO PREVENT CONDENSATION OR TO RETAIN HEAT FOR ENERGY EFFICIENCY. INSULATION SYSTEM TO BE SCHULLER MICRO-LOK OR EQUAL, WITH SIZES AS SHOWN BELOW.

SERVICE & PIPE SIZE	INSULATION REQUIRED
SANITARY DRAINS (ANY SIZE)	1"
DOMESTIC COLD WATER (ANY SIZE)	1"
DOMESTIC HOT WATER (2" & SMALLER)	1"
DOMESTIC HOT WATER (2½" & LARGER)	1½"
DOMESTIC HOT WATER RECIRC.(ANY SIZE)	1"
DOMESTIC WATER (HOT OR COLD) BRANCHES	½"

- DOOR TO BE GALVANIZED STEEL TAPING BEADING TO PROVIDE FINISH OF DRYWALL JOINTS.
- FIRE RATED ACCESS DOORS TOBE INSULATED ACUDOR SERIES FW-5050 FIRE RATED ACCESS DOORS, FOR WALLS AND CEILING UL/ULC 1-1/2 HOUR 'B' LABEL WITH MAXIMUM TEMPERATURE RISE OF 250 DEGREES AFTER 30 MINUTES. DOOR WITH 2" (50MM) INSULATION, STEEL, 20 GA (1MM) WITH 16 GA. (1.6MM) FRAME, CONCEALED HINGE, SELF LATCHING RING PULL AND GREY BAKED ENAMEL FINISH.
 - PROVIDE PLUMBING FIXTURES AND EQUIPMENT AS SPECIFIED ON THE DRAWINGS. ALL ITEMS TO BE NEW AND OF THE HIGHEST QUALITY. ALL ITEMS INSTALLED BY THIS CONTRACTOR MUST BE INSTALLED COMPLETE AND INCLUDE ALL PIPING, VALVES AND MISCELLANEOUS FITTINGS, CONTROLS, SUPPORT BASE OR STRUCTURE, TO ENSURE A TOTALLY FUNCTIONAL UNIT OR SYSTEM. COORDINATE INSTALLATION WITH OTHER TRADES AS REQUIRED.
 - ALL PLUMBING INSTALLATIONS ARE TO BE IN THE BEST WORKMANLIKE MANOR AND IN ACCORDANCE WITH THE BEST PRACTICES OF THE TRADE.
 - SUPPORT ALL PIPING AS FOLLOWS:

PIPE SIZE	DISTANCE BETWEEN SUPPORTS
1" & SMALLER (METALLIC)	6'-0" MAXIMUM
1½" & SMALLER (METALLIC)	8'-0" MAXIMUM
½" & SMALLER (PLASTIC)	3'-0" MAXIMUM
1½" & SMALLER (PLASTIC)	4'-0" MAXIMUM
 - PROVIDE SLEEVES FOR ALL PIPING PENETRATING WALLS AND FLOORS. ENSURE ALL PENETRATIONS THROUGH FIRE RATED ASSEMBLIES ARE PROPERLY SEALED WITH AN APPROVED COMPOUND.
 - ALL TREMCHING, BEDDING, AND BACKFILL OF BURIED PIPING IS THE RESPONSIBILITY OF THE CONTRACTOR.
 - PRESSURE TEST THE HOT AND COLD WATER PIPES WITH WATER PRESSURE AT 100KPa FOR 1 HOUR OR AIR PRESSURE AT 700KPa FOR 2 HOURS.

PLUMBING FITTINGS AND ACCESSORIES

VALVES

GATE VALVES:	NPS 2 AND UNDER	CRANE 1320 / CRANE 428
	OVER NPS 2	CRANE 465 1/2
GLOBE VALVES:	NPS 2 AND UNDER	CRANE 1310
CHECK VALVES:	NPS 2 AND UNDER	CRANE 1342
	OVER NPS 2	CRANE 373
BALL VALVES:	NPS 2 AND UNDER	CRANE 9322S

FLOOR DRAINS

- FINISHED FLOORS ZURN ZN-211BP, 125BP, 125 MM ROUND NICKEL BRONZE STRAINER.
- UNFINISHED AREAS ZURN ZXN-211AP - IN WATERPROOF MEMBRANE AREAS USE ZXN-401AP NICKEL BRONZE STRAINER.
- CERAMIC TILE AREAS ZURN ZXN-211 HP WITH NICKEL BRONZE STRAINER,150X150 SIZE.
- ANCON DRAINS CONSIDERED EQUAL TO ZURN.

CLEANOUTS

- CLEANOUT PLUGS (CAST IRON) HEAVY CI MALE FERRULE WITH BRASS SCREWS AND THREADED BRASS OR BRONZE PLUG. SEALING-CAULKED SEAT OR WITH NEOPRENE GASKET. ACCEPTABLE MATERIALS: ZURN 21450 SERIES, ANCON.

PLUMBING FIXTURES

- FIXTURES ARE NOT TO BE INSTALLED UNTIL DIRECTED BY THE ENGINEER. ALL ROUGH-IN SHALL BE ACCURATELY LAID OUT, AND NO OFFSETS WILL BE ACCEPTED. ALL FIXTURES SHALL BE THE BEST OF THEIR RESPECTIVE KIND, FREE FROM ALL DEFECTS AND ANY FIXTURE WHICH IN THE OPINION OF THE ENGINEER IS DEFECTIVE OR DAMAGED SHALL BE REMOVED AND REPLACED BY A FIXTURE WHICH IS ACCEPTABLE. THE FIXTURES SHALL INCLUDE ALL TRIM, TRAPS AND WASTE WATER CONNECTIONS, TANKS, ETC., USUALLY CLASSED AS FITTINGS AND REQUIRED TO MAKE FIXTURE COMPLETE IN EVERY RESPECT. FIXTURES SHALL BE WHITE. CRANE AND AMERICAN STANDARD FIXTURES ARE CONSIDERED EQUALS.

PLUMBING FIXTURES

ED- FLOOR DRAINS
ADJUSTABLE FLOOR DRAIN-ZURN-Z415-B21-DP

TRAP SEAL PRIMERS
PPP-PR-500 PRESSURE DROP ACTIVATED TRAP PRIMER

CLEANOUTS

ADJUSTABLE ON GRADE CLEANOUTS- SIOUX CHIEF 834 SERIES FINISH LINE ADJUSTABLE ON GRADE CLEANOUT, MODEL NO 834-4-P-NR-V-832 S4

WATER HAMMER ARRESTORS

- 1 WATTS DRAINAGE SERIES 05
- ANSI A112.28.1; COPPER CONSTRUCTION, PISTON TYPE SIZED TO PDI WH-201, PRE-CHARGED SUITABLE FOR OPERATION IN TEMPERATURE RANGE 99°F TO 300°F (-73°C TO 149°C) AND MAXIMUM 150 PSI (1000 KPA) WORKING PRESSURE.

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1	ISSUED FOR REVIEW	MAR 07 2025
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ASSUMPTION CATHOLIC SECONDARY SCHOOL, GN. WR. RENO.
 3230 WOODWARD AVE, BURLINGTON, ONTARIO, L7N 3P1
 HALTON CATHOLIC DISTRICT SCHOOL BOARD

PROJECT:

PROFESSIONAL SEAL:



DWG TITLE: **MECHANICAL SPECIFICATIONS-2**



REGAL CONSULTING ENGINEERS INC.
 CONSULTING MECHANICAL & ELECTRICAL ENGINEERS
 208 Wyecroft Road, Suite 200, Oakville, ON L6K 3S3
 PHONE: (905)844-3913
 www.regal-eng.com

DATE: **MAR 2025**

SCALE: **N.T.S**

DRAWN BY: **MS**

CHECKED BY: **MA**

DWG STATUS: **TENDER**

PROJECT No.: **2025-480**

DRAWING No.: **M9.1** REVISION

LEGEND	
	ELECTRICAL PANEL
	NON-FUSED DISCONNECT SWITCH
	MOTOR CONNECTION (SINGLE OR THREE PHASE)
	MAIN SWITCH BOARD
	15A, 120V DUPLEX T-SLOT GROUND FAULT INTERRUPTER RECEPTACLE
	DOOR OPERATOR
	OUTLET FOR PUSH TO LOCK
	OUTLET FOR PUSH TO UNLOCK
	STROBE LIGHT FOR EMERGENCY RESPONSE SYSTEM
	PATIENT UNIT FOR EMERGENCY RESPONSE SYSTEM
	OCCUPIED LIGHT FOR EMERGENCY RESPONSE SYSTEM
	EMERGENCY RESPONSE SYSTEM
	DOOR HOLD OPEN DEVICE
	FIRE ALARM CONTROL PANEL
	PHOTOELECTRIC TYPE SMOKE DETECTOR
	AUDIBLE & VISUAL DEVICE
	FLUSH WALL OR CEILING MOUNTED FIRE ALARM HORN & STROBE
	EMERGENCY LIGHTING FIXTURE
	EMERGENCY LIGHTING FIXTURE AND BATTERY
	SURFACE OR RECESS MOUNTED LIGHTING FIXTURE. LETTER DENOTES TYPE
	SURFACE OR RECESS MOUNTED LIGHTING FIXTURE. LETTER DENOTES TYPE
	TELEPHONE OUTLET MOUNTED AT 1500MM A.F.F C/W 21MM CONDUIT.
	WALL MOUNT PIR OCCUPANCY SENSOR, WATT STOPPER PW-100
	HAND DRYER
	CEILING MOUNTED SPEAKER
	WALL MOUNTED SPEAKER
	OUTLET FOR SECURITY DOOR STRIKE
	OUTLET FOR SECURITY CONCEALED DOOR CONTACT
	OUTLET FOR SECURITY HID CARD ACCESS READER
	WIRE GUARD
	RELOCATE
	EXISTING
	OUTLET FOR CLOSED CIRCUIT CAMERA

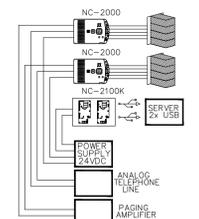
ELECTRICAL DRAWING LIST

- E1.0 ELECTRICAL LEAD SHEET, DETAILS, KEY PLAN & PANEL SCHEDULES
- E2.0 DEMOLITION GROUND AND SECOND FLOOR PLAN
- E2.1 DEMOLITION SECOND FLOOR WASHROOM POWER AND LIGHTING PLAN
- E2.2 DEMOLITION THIRD FLOOR WASHROOM POWER AND LIGHTING PLAN
- E3.0 PROPOSED GROUND AND SECOND FLOOR PLAN
- E3.1 PROPOSED SECOND FLOOR WASHROOM POWER AND LIGHTING FLOOR PLAN
- E3.2 PROPOSED THIRD FLOOR WASHROOM POWER AND LIGHTING FLOOR PLAN
- E4.0 ELECTRICAL SPECIFICATIONS

EMERGENCY RESPONSE SYSTEM FOR WASHROOMS

- CONTRACTOR TO PROVIDE AND INSTALL EMERGENCY RESPONSE SYSTEM FOR THE WASHROOMS.
 - BASIS OF DESIGN IS MIRCROM, EQUIVALENT PRODUCT BY OTHER MANUFACTURERS ACCEPTABLE BASED ON SHOP DRAWING REVIEW.
- MICARE SYSTEM CONSIST OF THE FOLLOWING:
- COORDINATOR BUNDLE NC-2100K 1 EACH
 - SOFTWARE NC-2100SW 1 EACH
 - 4 LED MULTIDOME LIGHT NC-4LE 4 EACH
 - PATIENT UNIT NC-2000 4 EACH
 - SERVER 1 EACH
 - ROUTER 1 EACH
 - STANDS ELECTRICAL BOX 3 PWS/ALPC 4 EACH
 - ELECTRICAL BOX 1XXF5248B 1 EACH
 - 24V POWER SUPPLY RB-MD390 1 EACH
 - CABLE T FOOT 200
 - EOL-103 END OF LINE RESISTOR (10K)
- ELECTRICAL CONTRACTOR SHALL INSTALL THE SYSTEM AS PER MANUFACTURER'S INSTRUCTIONS.
 - PROVIDE AND INSTALL COMPLETE SYSTEM TO MEET THE CODE REQUIREMENTS. CO-ORDINATE WITH MIRCROM (CHRIS SCOTT: 847-464-9972) AND INSTALL SYSTEM AS PER MANUFACTURER'S INSTRUCTIONS.
 - ONCE SYSTEM IS INSTALLED AND TESTED, PROVIDE REQUIRED TRAINING TO THE MAINTENANCE STAFF.

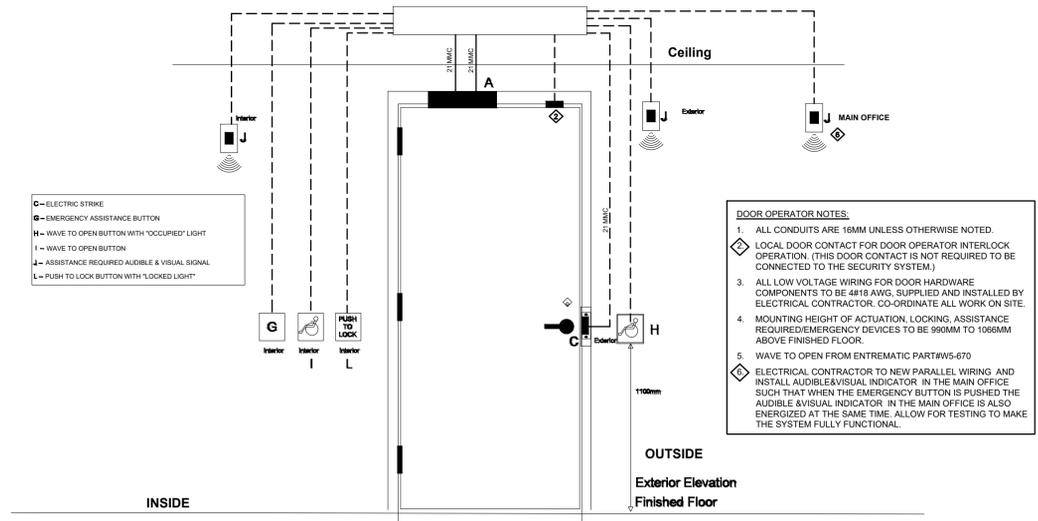
TYPICAL FLOOR PLAN FOR EACH WASHROOM



NOTE:
1. SERVER TO BE LOCATED IN CHANGE ROOM. ELECTRICAL CONTRACTOR TO PROVIDE POWER REQUIRED (B-xx & B-xx) FOR THE EMERGENCY RESPONSE SYSTEM.

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MAKE/MODEL	VOLT	LUMEN	LAMP			MOUNT	REMARKS
					WATT	TYPE	COL.		
MC	6" LED POT LIGHT, WET LOCATIONS	GE DI-6R-15-940-1V-10 WITH RDI-6R-W-SD-WT-WR EQUIVALENT BY PEERLESS, METALUMEN OR PHILLIPS	120	1290	20	LED	4000	CEILING RECESSED	WR. WET RATED
A1	LITELINE 1'X4' CEILING RECESSED FIXTURE	LITELINE LEDP-14-WH-40-30-120-L EQUALS: PEERLESS-ELECTRIC AND COLUMBIA	120	3190	30	LED	4000	DRYWALL CEILING RECESSED	WR. DLC CERTIFIED

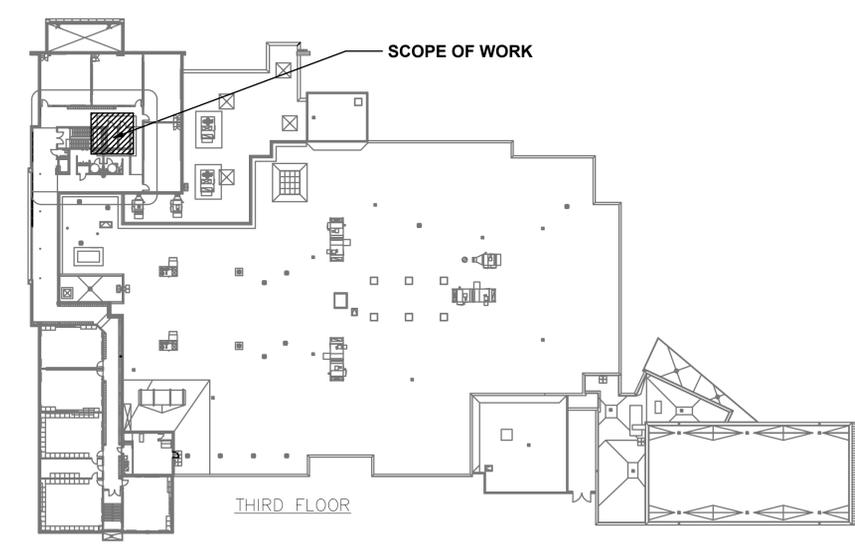
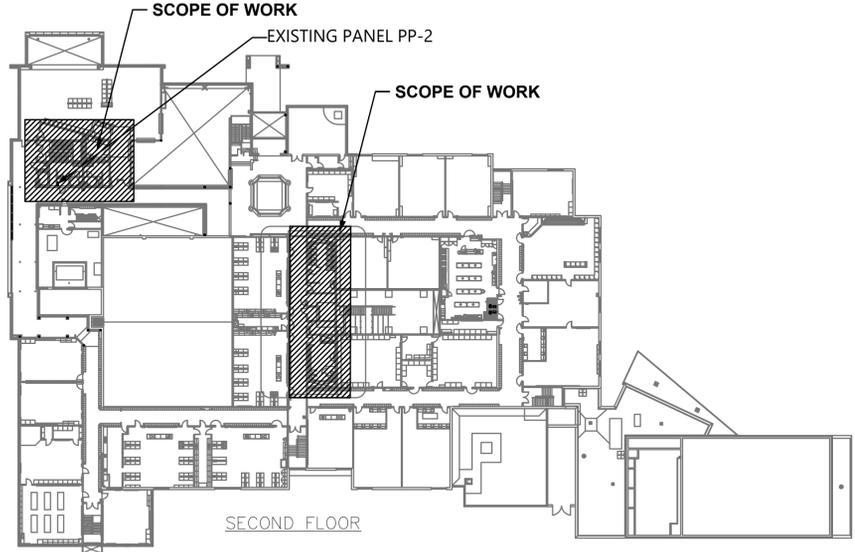
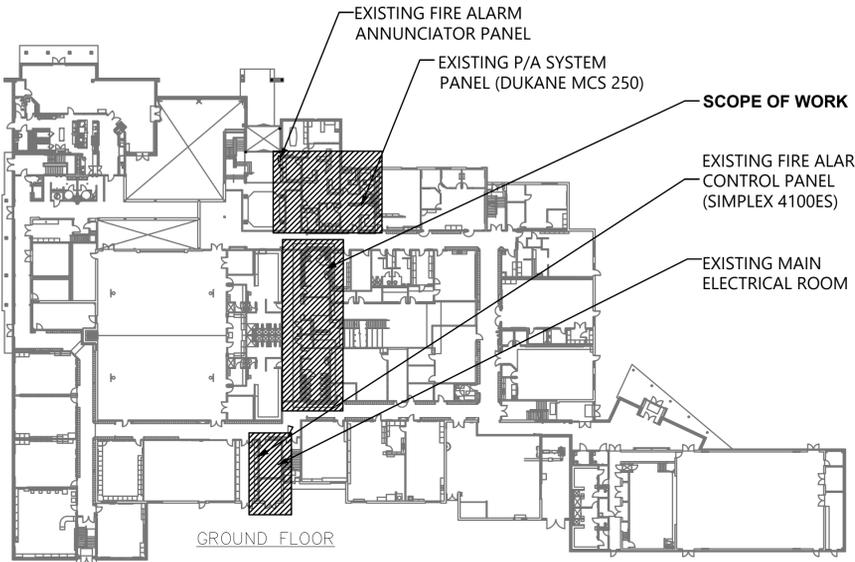


BARRIER FREE WASHROOM DOOR OPERATOR SCHEMATICS (TYPICAL)

EXS PANELBOARD PP2 SCHEDULE

DESCRIPTION	BRKR SIZE (A)	WATTS PER PHASE			CR NO	BUS ABC	WATTS PER PHASE			BRKR SIZE (A)	DESCRIPTION
		A	B	C			A	B	C		
EXISTING	15				01				15	EXISTING	
EXISTING	15				03				15	EXISTING	
EXISTING	15				05				15	EXISTING	
EXISTING	15				07				15	EXISTING	
EXISTING	15				09				15	EXISTING	
EXISTING	15				11				15	EXISTING	
EXISTING	15				13				15	EXISTING	
EXISTING	15				15				15	EXISTING	
EXISTING	15				17				15	EXISTING	
EXISTING	15				19				15	EXISTING	
EXISTING	15				21				15	EXISTING	
EXISTING	15				23				15	EXISTING	
EXISTING	15				25				15	EXISTING	
EXISTING	15				27				15	EXISTING	
EXISTING	15				29				15	EXISTING	
EXISTING	15				31				15	EXISTING	
EXISTING	15				33				15	EXISTING	
EXISTING	15				35				15	EXISTING	
HAND DRYER	20				37				20	HAND DRYER	
HAND DRYER	20				39				20	HAND DRYER	
HAND DRYER	20				41				20	HAND DRYER	
HAND DRYER	20				43				20	HAND DRYER	
EMERGENCY RESPONSE SYSTEM	15				45				15	EMERGENCY RESPONSE SYSTEM	
PLUMBING FIXTURE	20				47				20	PLUMBING FIXTURE	
LAVATORY	20				49				15	EMERGENCY RESPONSE SYSTEM	
RECEPTACLES (*)	15				51				20	DOOR OPERATOR	
EXHAUST FAN EF-1	15				53				20	PLUMBING FIXTURE	
LAVATORY	20				55				15	LAVATORY	
SPACE					57					SPACE	
SPACE					59					SPACE	
SPACE					61					SPACE	
EXISTING	20				63				20	EXISTING	
EXISTING	2P				65				20	EXISTING	
EXISTING	20				67				30	EXISTING	
EXISTING	20				69				15	EXISTING	
EXISTING					71					EXISTING	
EXISTING					72					EXISTING	

(*) GROUND FAULT INTERRUPTER CIRCUIT BREAKER
(**) C/W LOCK-OFF DEVICES



1
E1.0 KEY PLAN
N.T.S

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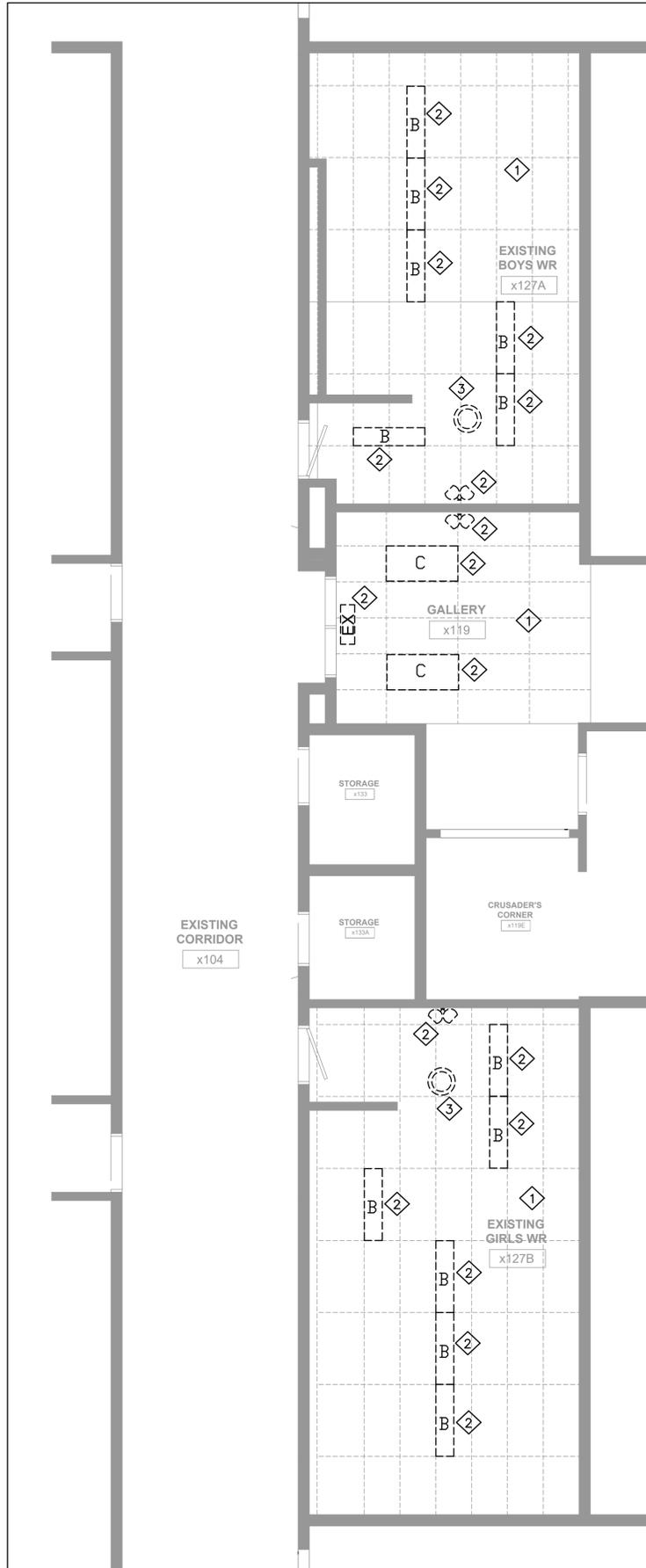
ASSUMPTION CATHOLIC SECONDARY SCHOOL, GN. WR. RENO.
 3230 WOODWARD AVE, BURLINGTON, ONTARIO, L7N 3P1
 HALTON CATHOLIC DISTRICT SCHOOL BOARD



DWG TITLE:
ELECTRICAL LEAD SHEET, DETAILS, KEY PLAN AND PANEL SCHEDULES

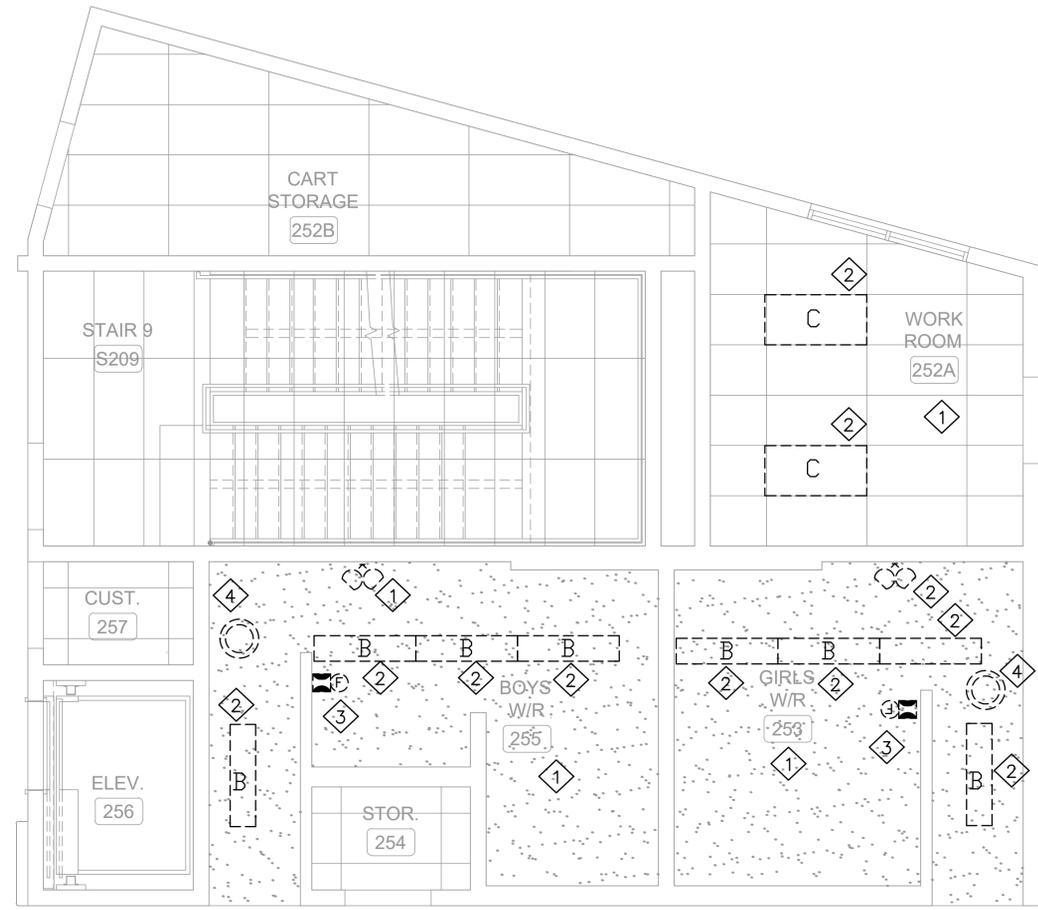


DATE:	MAR 2025
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DRAWN BY:	AS
CHECKED BY:	MA
DWG STATUS:	TENDER
PROJECT No.:	2025-480
DRAWING No.:	E1.0
REVISION:	



- DEMOLITION NOTES:**
- 1 GC TO REMOVE AND REPLACE GROUND FLOOR WASHROOM CEILINGS AS REQUIRED FOR THE INSTALLATION OF SECOND FLOOR WASHROOM CEILINGS AS REQUIRED FOR INSTALLATION OF SECOND FLOOR PLUMBING FIXTURES. REFER TO THE ARCHITECTURAL DRAWINGS.
 - 2 ELECTRICAL CONTRACTOR TO REMOVE AND RE-INSTALL EXISTING LIGHTINGS, EMERGENCY LIGHTINGS, EXIT SIGN AND OCCUPANCY SENSOR AS REQUIRED FOR THE INSTALLATION OF SECOND FLOOR WASHROOM PLUMBING FIXTURES. REFER TO THE ARCHITECTURAL DRAWINGS. CAP AND MAKE ASSOCIATED WIRING SAFE. RETAIN EXISTING AC CIRCUITS FOR RE-USE AFTER RENOVATION.
 - 3 THE ELECTRICAL CONTRACTOR SHALL REMOVE AND REINSTALL EXISTING CEILING-MOUNTED SPEAKERS AS SHOWN ON THE ELECTRICAL DRAWINGS, AS REQUIRED FOR THE WASHROOM RENOVATION. ALLOW FOR EXTENDING CABLES, CONDUITS AND TESTING. COORDINATE WITH THE AUDIO SYSTEM PROVIDER IF REQUIRED.
 - 4 THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE MECHANICAL CONTRACTOR FOR ALL RELATED ELECTRICAL WORK. ENSURE ALL CONNECTIONS TO MECHANICAL EQUIPMENT ARE INSTALLED PER MANUFACTURER REQUIREMENTS.
 - 5 THE ELECTRICAL CONTRACTOR SHALL PROTECT ALL EXISTING EQUIPMENT, DEVICES, AND CABLES DURING WORK. ANY DAMAGED COMPONENTS SHALL BE REPLACED AT NO ADDITIONAL COST.
 - 6 THE ELECTRICAL CONTRACTOR SHALL ENSURE ALL WORK COMPLIES WITH THE ONTARIO ELECTRICAL SAFETY CODE AND OBTAIN NECESSARY INSPECTIONS AND APPROVALS.

1 DEMOLITION GROUND FLOOR WASHROOM LIGHTING PLAN
E2.0 1:50



- DEMOLITION NOTES:**
- 1 GC TO REMOVE AND REPLACE SECOND FLOOR LIBRARY WORKROOM LAP CEILING AND SECOND FLOOR WR GYPSUM CEILINGS AS REQUIRED FOR THE INSTALLATION OF THIRD FLOOR PLUMBING FIXTURES. REFER TO THE ARCHITECTURAL DRAWINGS.
 - 2 ELECTRICAL CONTRACTOR TO REMOVE AND RE-INSTALL EXISTING LIGHTINGS, EMERGENCY LIGHTINGS, AND OCCUPANCY SENSOR AS REQUIRED FOR THE INSTALLATION OF THIRD FLOOR WASHROOMS PLUMBING FIXTURES. CAP AND MAKE ASSOCIATED WIRING SAFE. RETAIN EXISTING AC CIRCUITS FOR RE-USE AFTER RENOVATION.
 - 3 THE ELECTRICAL CONTRACTOR SHALL REMOVE AND REINSTALL EXISTING FIRE ALARM HORN IN THE WASHROOM AS SHOWN ON THE ELECTRICAL DRAWINGS, AS REQUIRED FOR THE INSTALLATION OF THIRD FLOOR WASHROOMS PLUMBING FIXTURES. ALLOW FOR EXTENDING CABLES AND CONDUITS, TESTING, AND VERIFICATION. COORDINATE WITH THE FIRE SYSTEM PROVIDER IF REQUIRED.
 - 4 THE ELECTRICAL CONTRACTOR SHALL REMOVE AND REINSTALL EXISTING CEILING-MOUNTED SPEAKERS AS SHOWN ON THE ELECTRICAL DRAWINGS, AS REQUIRED FOR THE WASHROOM RENOVATION. ALLOW FOR EXTENDING CABLES, CONDUITS AND TESTING. COORDINATE WITH THE AUDIO SYSTEM PROVIDER IF REQUIRED.
 - 5 THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE MECHANICAL CONTRACTOR FOR ALL RELATED ELECTRICAL WORK. ENSURE ALL CONNECTIONS TO MECHANICAL EQUIPMENT ARE INSTALLED PER MANUFACTURER REQUIREMENTS.
 - 6 THE ELECTRICAL CONTRACTOR SHALL PROTECT ALL EXISTING EQUIPMENT, DEVICES, AND CABLES DURING WORK. ANY DAMAGED COMPONENTS SHALL BE REPLACED AT NO ADDITIONAL COST.
 - 7 THE ELECTRICAL CONTRACTOR SHALL ENSURE ALL WORK COMPLIES WITH THE ONTARIO ELECTRICAL SAFETY CODE AND OBTAIN NECESSARY INSPECTIONS AND APPROVALS.

2 DEMOLITION SECOND FLOOR WASHROOM AND WORKROOM LIGHTING PLAN
E2.0 1:50

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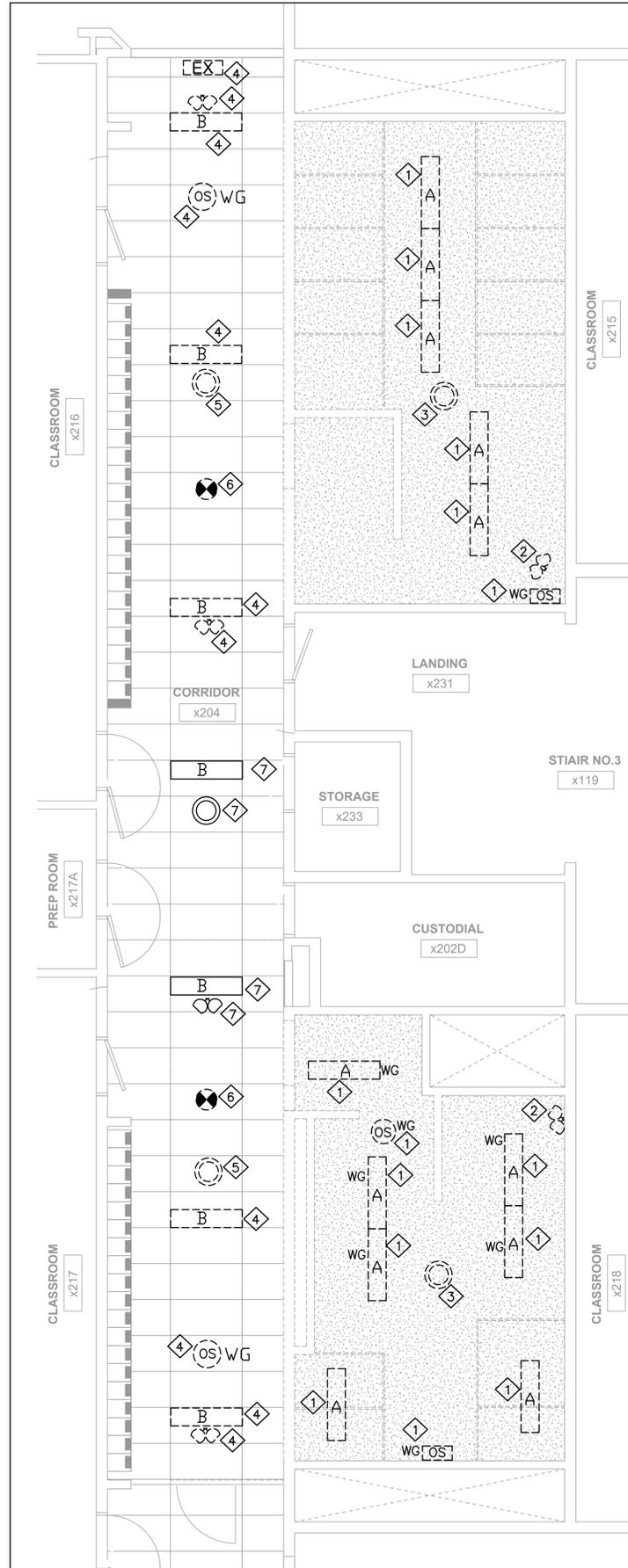
PROJECT:
ASSUMPTION CATHOLIC SECONDARY SCHOOL, GN. WR. RENO.
 3230 WOODWARD AVE, BURLINGTON, ONTARIO, L7N 3P1
 HALTON CATHOLIC DISTRICT SCHOOL BOARD



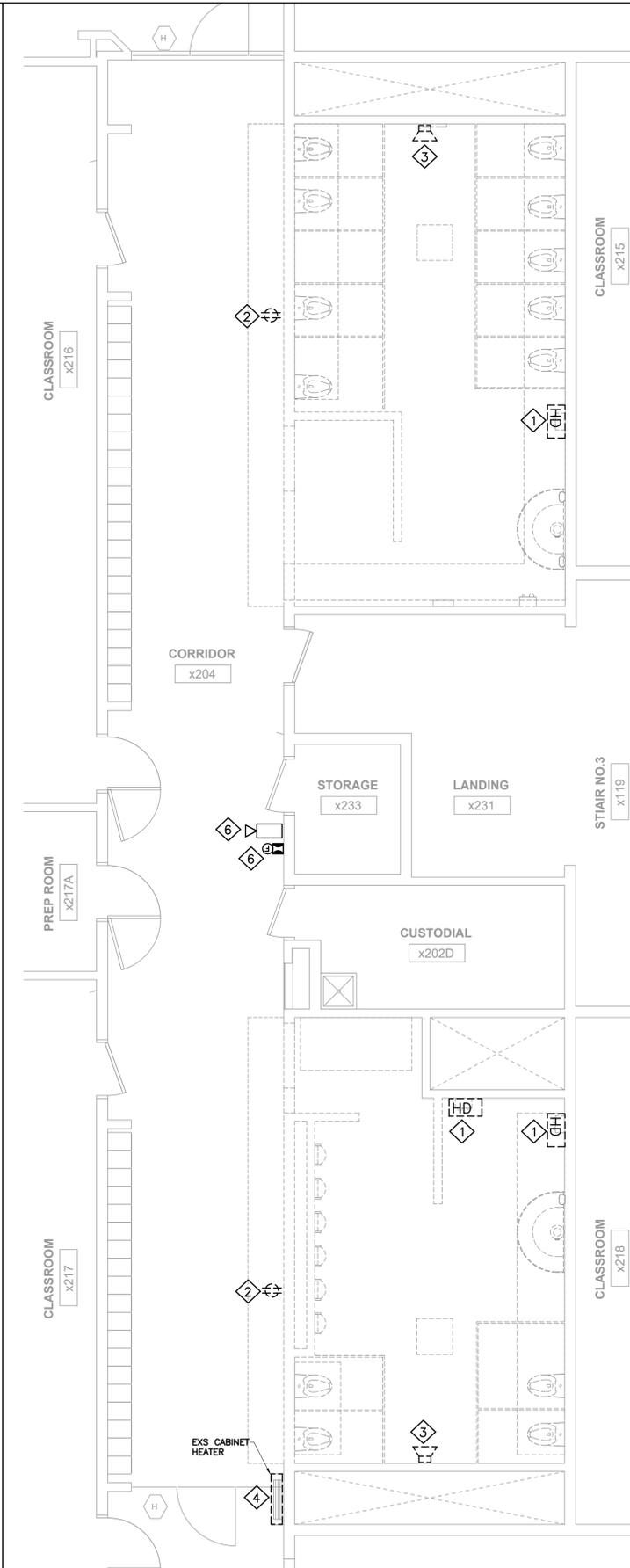
DWG TITLE:
DEMOLITION GROUND AND SECOND FLOOR LIGHTING PLAN



DATE:	MAR 2025
SCALE:	AS NOTED
DRAWN BY:	AS
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DWG STATUS:	TENDER
PROJECT No.:	2025-480
DRAWING No.:	E2.0
REVISION:	



- DEMOLITION NOTES:**
- 1 THE ELECTRICAL CONTRACTOR TO DISCONNECT POWER & CONTROLS FROM THE EXISTING LIGHTING FIXTURES THAT ARE BEING DEMOLISHED. REMOVE ALL EXISTING LIGHTING FIXTURES, AND DISPOSE OFF SITE. ALL POWER CABLES AND CONDUITS SHALL BE REMOVED BACK TO SOURCE. MARK EXISTING LIGHTING CIRCUITS AND RE-USE FOR NEW LIGHTING FIXTURES IN THESE AREAS.
 - 2 THE ELECTRICAL CONTRACTOR SHALL REMOVE AND REINSTALL EXISTING EMERGENCY LIGHTS AS SHOWN ON THE ELECTRICAL DRAWINGS, AS REQUIRED FOR THE WASHROOM RENOVATION. ALLOW FOR EXTENDING CABLES AND CONDUITS, TESTING, AND VERIFICATION. CONFIRM EMERGENCY LIGHTS FUNCTION EMERGENCY MODES.
 - 3 THE ELECTRICAL CONTRACTOR SHALL REMOVE AND REINSTALL EXISTING CEILING-MOUNTED SPEAKERS AS SHOWN ON THE ELECTRICAL DRAWINGS, AS REQUIRED FOR THE WASHROOM RENOVATION. ALLOW FOR EXTENDING CABLES AND CONDUITS, TESTING, AND VERIFICATION. COORDINATE WITH THE AUDIO SYSTEM PROVIDER IF REQUIRED.
 - 4 ELECTRICAL CONTRACTOR TO REMOVE AND RE-INSTALL EXISTING LIGHTINGS, EMERGENCY LIGHTINGS, EXIT SIGN AND OCCUPANCY SENSOR IN THE CORRIDOR AS REQUIRED FOR NEW WASHROOM RENOVATION WORK. CAP AND MAKE ASSOCIATED WIRING SAFE. RETAIN EXISTING AC CIRCUITS FOR RE-USE AFTER RENOVATION.
 - 5 THE ELECTRICAL CONTRACTOR SHALL REMOVE AND REINSTALL EXISTING CEILING-MOUNTED SPEAKERS IN THE CORRIDOR AS REQUIRED FOR NEW WASHROOM RENOVATION WORK. ALLOW FOR EXTENDING CABLES AND CONDUITS. COORDINATE WITH THE AUDIO SYSTEM PROVIDER IF REQUIRED. ALLOW FOR TESTING AND ENSURE THE SYSTEM IS FULLY FUNCTIONAL.
 - 6 THE ELECTRICAL CONTRACTOR SHALL REMOVE AND REINSTALL EXISTING FIRE ALARM SMOKE DETECTORS IN THE CORRIDOR AS SHOWN ON THE ELECTRICAL DRAWINGS, AS REQUIRED FOR THE WASHROOM RENOVATION WORK. ALLOW FOR EXTENDING CABLES AND CONDUITS, TESTING, AND VERIFICATION. COORDINATE WITH THE FIRE SYSTEM PROVIDER IF REQUIRED.
 - 7 EXISTING TO REMAIN.
 - 8 THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE MECHANICAL CONTRACTOR FOR ALL RELATED ELECTRICAL WORK. ENSURE ALL CONNECTIONS TO MECHANICAL EQUIPMENT ARE INSTALLED PER MANUFACTURER REQUIREMENTS.
 - 9 THE ELECTRICAL CONTRACTOR SHALL PROTECT ALL EXISTING EQUIPMENT, DEVICES, AND CABLES DURING WORK. ANY DAMAGED COMPONENTS SHALL BE REPLACED AT NO ADDITIONAL COST.
 - 10 THE ELECTRICAL CONTRACTOR SHALL ENSURE ALL WORK COMPLIES WITH THE ONTARIO ELECTRICAL SAFETY CODE AND OBTAIN NECESSARY INSPECTIONS AND APPROVALS.



- DEMOLITION NOTES:**
- 1 ELECTRICAL CONTRACTOR SHALL DISCONNECT AND REMOVE POWER TO THE HAND DRYERS BEING DEMOLISHED. AFTER REMOVAL, MARK THE CIRCUITS AS SPARE AND UPDATE PANEL SCHEDULES ACCORDINGLY. REMOVE ALL ASSOCIATED CABLES, WIRES, AND CONDUITS BACK TO THE SOURCE.
 - 2 ELECTRICAL CONTRACTOR SHALL REMOVE AND RE-INSTALL EXISTING RECEPTACLES AS SHOWN ON THE ELECTRICAL DRAWINGS, AS REQUIRED FOR THE WASHROOM RENOVATION. ALLOW FOR EXTENDING CABLES AND CONDUITS, TESTING, AND VERIFICATION TO ENSURE PROPER FUNCTIONALITY.
 - 3 ELECTRICAL CONTRACTOR SHALL REMAIN THE EXISTING WALL MOUNTED SPEAKERS AS SHOWN ON THE ELECTRICAL DRAWINGS.
 - 4 ELECTRICAL CONTRACTOR SHALL DISCONNECT AND REMOVE POWER TO THE EXISTING CABINET HEATER BEING DEMOLISHED. REMOVE ALL ASSOCIATED CABLES, WIRES, AND CONDUITS BACK TO THE SOURCE. VERIFY CIRCUIT REMOVAL TO ENSURE NO UNINTENDED SYSTEM INTERRUPTIONS.
 - 5 PROVIDE STAINLESS STEEL COVER PLATES AS REQUIRED FOR ALL REDUNDANT OUTLET BOXES TO REMAIN IN EXISTING WALLS.
 - 6 EXISTING TO REMAIN.
 - 7 THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE MECHANICAL CONTRACTOR FOR ALL RELATED ELECTRICAL WORK. ENSURE PROPER CONNECTIONS FOR ANY MECHANICAL EQUIPMENT REQUIRING ELECTRICAL POWER.
 - 8 ENSURE ALL WORK IS COMPLETED IN ACCORDANCE WITH THE ONTARIO ELECTRICAL SAFETY CODE (OESC) AND OTHER APPLICABLE REGULATIONS.

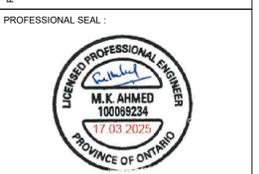
1 DEMOLITION SECOND FLOOR WASHROOM AND CORRIDOR LIGHTING PLAN
E2.1 1:50

2 DEMOLITION SECOND FLOOR WASHROOM AND CORRIDOR POWER PLAN
E2.1 1:50

The Contractor shall verify all dimensions prior to commencement of the work. All print and specifications are the property of the Architect and must be returned upon completion of the work.

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PROJECT:
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DWG TITLE:
DEMOLITION SECOND FLOOR POWER AND LIGHTING PLAN



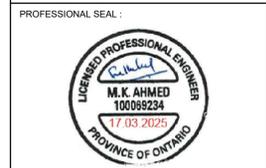
DATE:	MAR 2025
SCALE:	AS NOTED
DRAWN BY:	AS
CHECKED BY:	MA
DWG STATUS:	TENDER
PROJECT No.:	2025-480
DRAWING No.:	E2.1
REVISION:	

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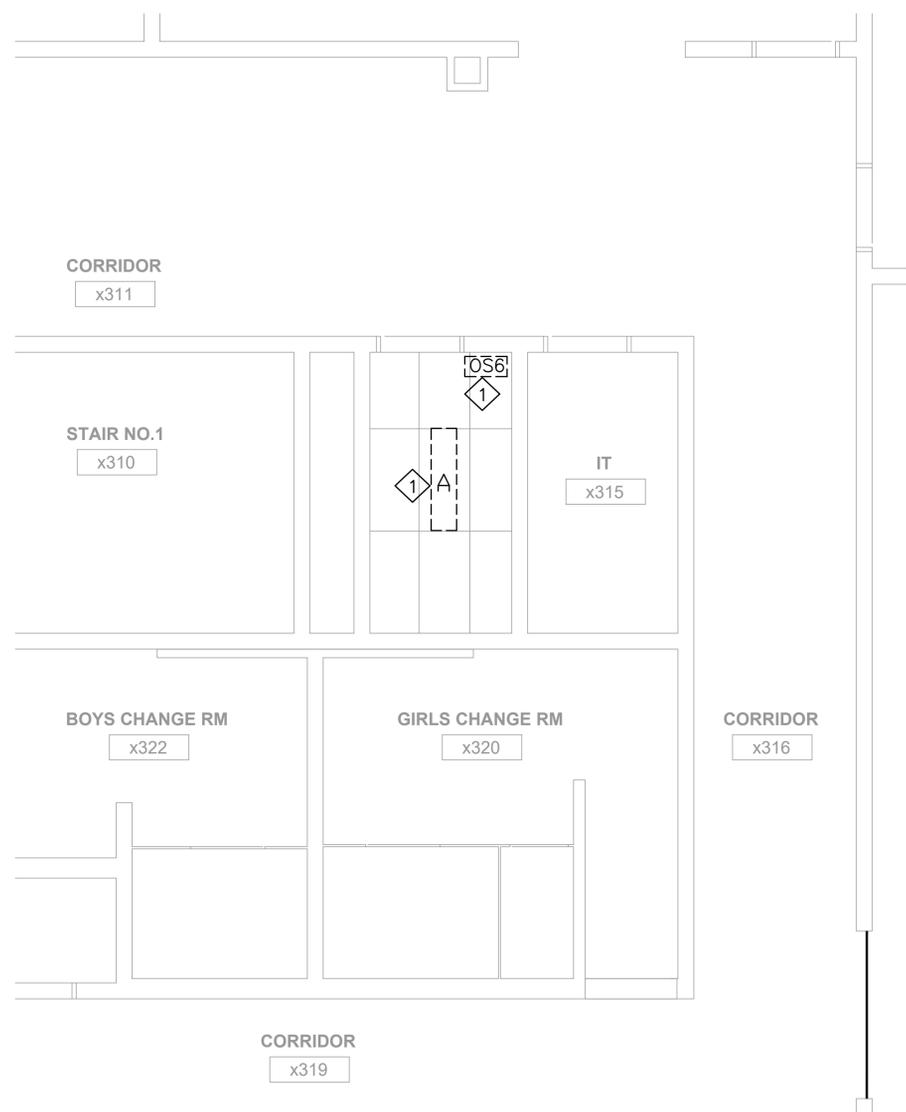
PROJECT:
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DWG TITLE:
DEMOLITION THIRD FLOOR POWER AND LIGHTING PLAN



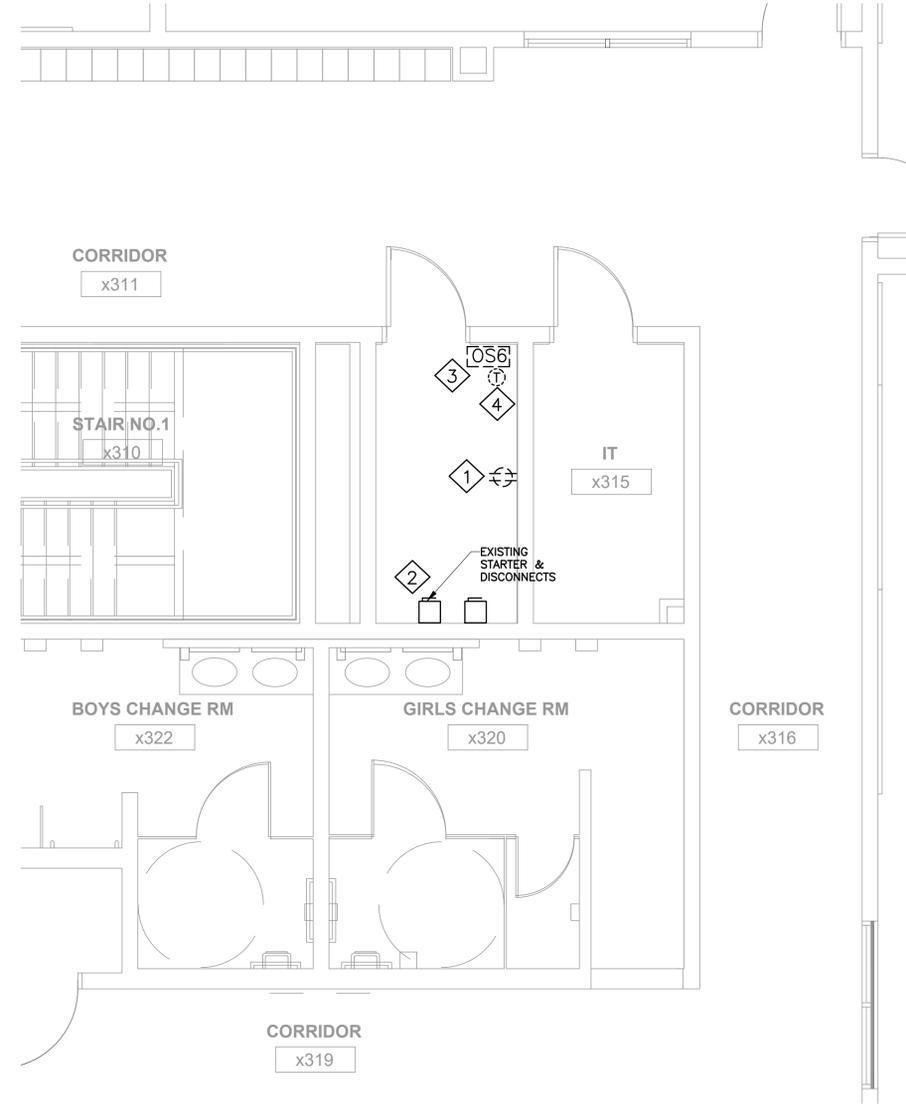
DATE: MAR 2025
 SCALE: AS NOTED
 DRAWN BY: AS
 CHECKED BY: MA
 DWG STATUS: TENDER
 PROJECT No.: 2025-480
 DRAWING No.: E2.2 REVISION



DEMOLITION NOTES:

- 1 THE ELECTRICAL CONTRACTOR TO DISCONNECT POWER & CONTROLS FROM THE EXISTING LIGHTING FIXTURES THAT ARE BEING DEMOLISHED. REMOVE ALL EXISTING LIGHTING FIXTURES, AND DISPOSE OFF SITE. ALL POWER CABLES AND CONDUITS SHALL BE REMOVED BACK TO SOURCE. MARK EXISTING LIGHTING CIRCUITS AND RE-USE FOR NEW LIGHTING FIXTURES IN THESE AREAS.
- 2 THE ELECTRICAL CONTRACTOR SHALL REMOVE AND RE-INSTALL EXISTING EMERGENCY LIGHTS AS SHOWN ON THE ELECTRICAL DRAWINGS, AS REQUIRED FOR THE WASHROOM RENOVATION. ALLOW FOR EXTENDING CABLES AND CONDUITS. ENSURE ALL FIXTURES ARE FULLY OPERATIONAL AFTER REINSTALLATION.
- 3 THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE MECHANICAL CONTRACTOR FOR ALL RELATED ELECTRICAL WORK. ENSURE ALL CONNECTIONS TO MECHANICAL EQUIPMENT ARE INSTALLED PER MANUFACTURER REQUIREMENTS.
- 4 THE ELECTRICAL CONTRACTOR SHALL PROTECT ALL EXISTING EQUIPMENT, DEVICES, AND CABLES DURING WORK. ANY DAMAGED COMPONENTS SHALL BE REPLACED AT NO ADDITIONAL COST.
- 5 THE ELECTRICAL CONTRACTOR SHALL ENSURE ALL WORK COMPLIES WITH THE ONTARIO ELECTRICAL SAFETY CODE AND OBTAIN NECESSARY INSPECTIONS AND APPROVALS.

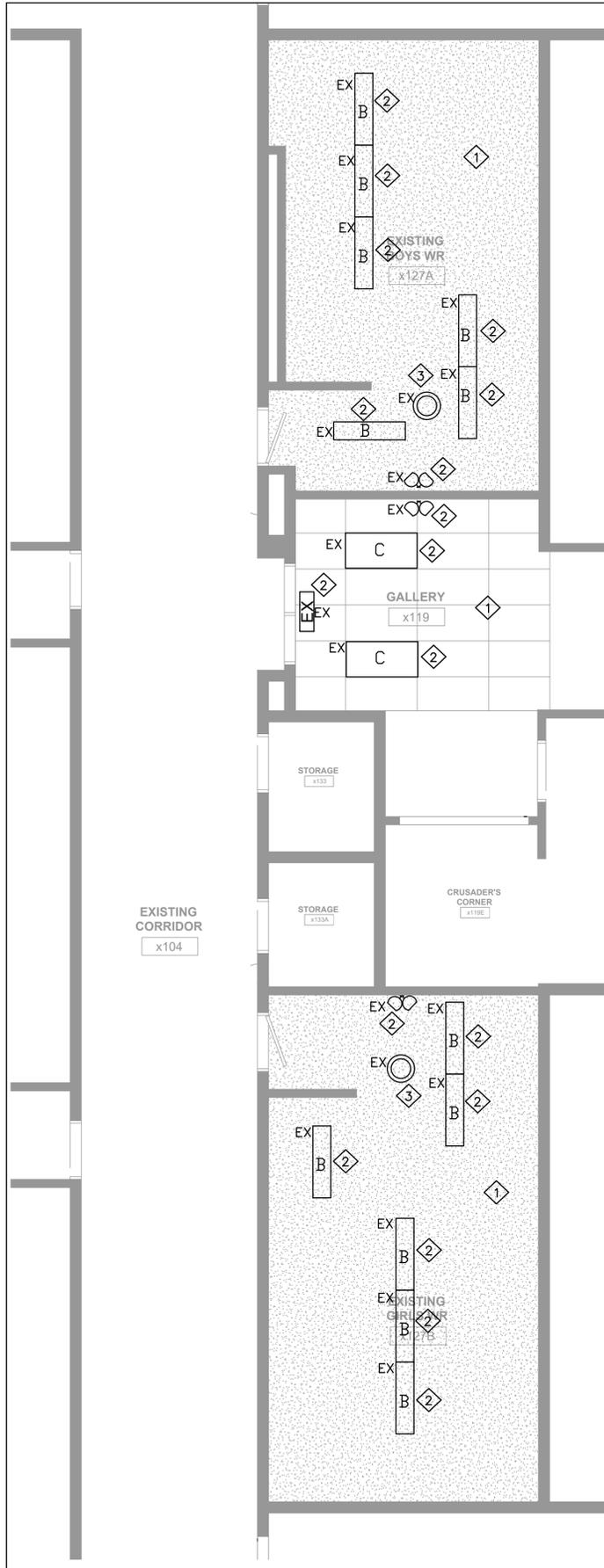
1 DEMOLITION THIRD FLOOR WASHROOM LIGHTING PLAN
 E2.2 1:50



DEMOLITION NOTES:

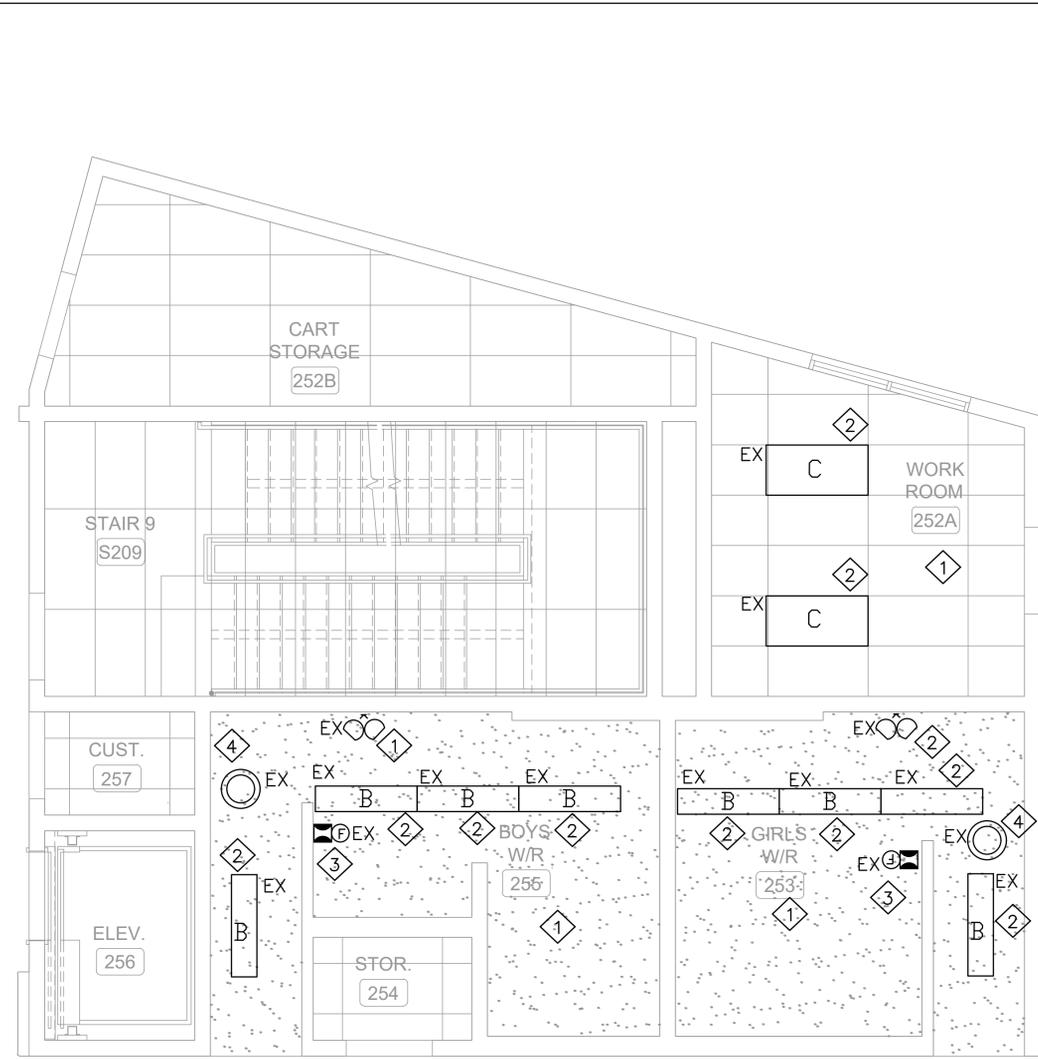
- 1 THE ELECTRICAL CONTRACTOR SHALL REMOVE THE EXISTING RECEPTACLE AS SHOWN. REMOVE ALL ASSOCIATED CABLES, WIRES, AND CONDUITS BACK TO THE SOURCE.
- 2 EXISTING DISCONNECTS TO REMAIN.
- 3 THE ELECTRICAL CONTRACTOR SHALL REMOVE EXISTING OCCUPANCY SENSOR AS INDICATED ON THE ELECTRICAL DRAWINGS. REMOVE ALL ASSOCIATED CABLES, WIRES, AND CONDUITS BACK TO THE SOURCE.
- 4 THE ELECTRICAL CONTRACTOR SHALL REMOVE THE EXISTING THERMOSTAT THAT IS BEING DEMOLISHED. REMOVE ALL ASSOCIATED CABLES, WIRES, AND CONDUITS BACK TO THE SOURCE.
- 5 THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE MECHANICAL CONTRACTOR FOR ALL RELATED ELECTRICAL WORK. ENSURE PROPER CONNECTIONS FOR ANY MECHANICAL EQUIPMENT REQUIRING ELECTRICAL POWER.
- 6 ENSURE ALL WORK IS COMPLETED IN ACCORDANCE WITH THE ONTARIO ELECTRICAL SAFETY CODE (OESC) AND OTHER APPLICABLE REGULATIONS.

2 DEMOLITION THIRD FLOOR WASHROOM POWER PLAN
 E2.2 1:50



- PROPOSED NOTES:**
- 1 GC TO REMOVE AND REPLACE GROUND FLOOR WASHROOM CEILINGS AS REQUIRED FOR INSTALLATION OF SECOND FLOOR PLUMBING FIXTURES. REFER TO THE ARCHITECTURAL DRAWINGS.
 - 2 ELECTRICAL CONTRACTOR TO RE-INSTALL EXISTING LIGHTINGS, EMERGENCY LIGHTINGS, EXIT SIGN AND OCCUPANCY SENSOR AS REQUIRED FOR THE INSTALLATION OF SECOND FLOOR WASHROOM PLUMBING FIXTURES. ALLOW FOR EXTENDING CABLES AND CONDUITS.
 - 3 THE ELECTRICAL CONTRACTOR SHALL RE-INSTALL EXISTING CEILING-MOUNTED SPEAKERS AS SHOWN ON THE ELECTRICAL DRAWINGS, AS REQUIRED FOR THE WASHROOM RENOVATION. ALLOW FOR EXTENDING CABLES & CONDUITS AND TESTING. COORDINATE WITH THE AUDIO SYSTEM PROVIDER IF REQUIRED.
 - 4 THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE MECHANICAL CONTRACTOR FOR ALL RELATED ELECTRICAL WORK. ENSURE ALL CONNECTIONS TO MECHANICAL EQUIPMENT ARE INSTALLED PER MANUFACTURER REQUIREMENTS.
 - 5 THE ELECTRICAL CONTRACTOR SHALL PROTECT ALL EXISTING EQUIPMENT, DEVICES, AND CABLES DURING WORK. ANY DAMAGED COMPONENTS SHALL BE REPLACED AT NO ADDITIONAL COST.
 - 6 THE ELECTRICAL CONTRACTOR SHALL ENSURE ALL WORK COMPLIES WITH THE ONTARIO ELECTRICAL SAFETY CODE AND OBTAIN NECESSARY INSPECTIONS AND APPROVALS.

1 PROPOSED GROUND FLOOR WASHROOM LIGHTING PLAN
E3.0 1:50



- PROPOSED NOTES:**
- 1 GC TO REMOVE AND REPLACE SECOND FLOOR LIBRARY WORKROOM LAP CEILING AND SECOND FLOOR WR GYPSUM CEILINGS AS REQUIRED FOR THE INSTALLATION OF THIRD FLOOR PLUMBING FIXTURES. REFER TO THE ARCHITECTURAL DRAWINGS.
 - 2 ELECTRICAL CONTRACTOR TO RE-INSTALL EXISTING LIGHTINGS, EMERGENCY LIGHTINGS, EXIT SIGN AND OCCUPANCY SENSOR AS REQUIRED FOR THE INSTALLATION OF SECOND FLOOR WASHROOM PLUMBING FIXTURES. ALLOW FOR EXTENDING CABLES AND CONDUITS.
 - 3 THE ELECTRICAL CONTRACTOR TO RE-INSTALL EXISTING FIRE ALARM HORN AS SHOWN ON THE ELECTRICAL DRAWINGS, AS REQUIRED FOR THE WASHROOM RENOVATION WORK. ALLOW FOR EXTENDING CABLES AND CONDUITS, TESTING, AND VERIFICATION. COORDINATE WITH THE FIRE SYSTEM PROVIDER IF REQUIRED.
 - 4 THE ELECTRICAL CONTRACTOR SHALL RE-INSTALL EXISTING CEILING-MOUNTED SPEAKERS AS SHOWN ON THE ELECTRICAL DRAWINGS, AS REQUIRED FOR THE WASHROOM RENOVATION. ALLOW FOR EXTENDING CABLES & CONDUITS AND TESTING. COORDINATE WITH THE AUDIO SYSTEM PROVIDER IF REQUIRED.
 - 5 THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE MECHANICAL CONTRACTOR FOR ALL RELATED ELECTRICAL WORK. ENSURE ALL CONNECTIONS TO MECHANICAL EQUIPMENT ARE INSTALLED PER MANUFACTURER REQUIREMENTS.
 - 6 THE ELECTRICAL CONTRACTOR SHALL PROTECT ALL EXISTING EQUIPMENT, DEVICES, AND CABLES DURING WORK. ANY DAMAGED COMPONENTS SHALL BE REPLACED AT NO ADDITIONAL COST.
 - 7 THE ELECTRICAL CONTRACTOR SHALL ENSURE ALL WORK COMPLIES WITH THE ONTARIO ELECTRICAL SAFETY CODE AND OBTAIN NECESSARY INSPECTIONS AND APPROVALS.

2 PROPOSED SECOND FLOOR WASHROOM AND WORK ROOM LIGHTING PLAN
E3.0 1:40

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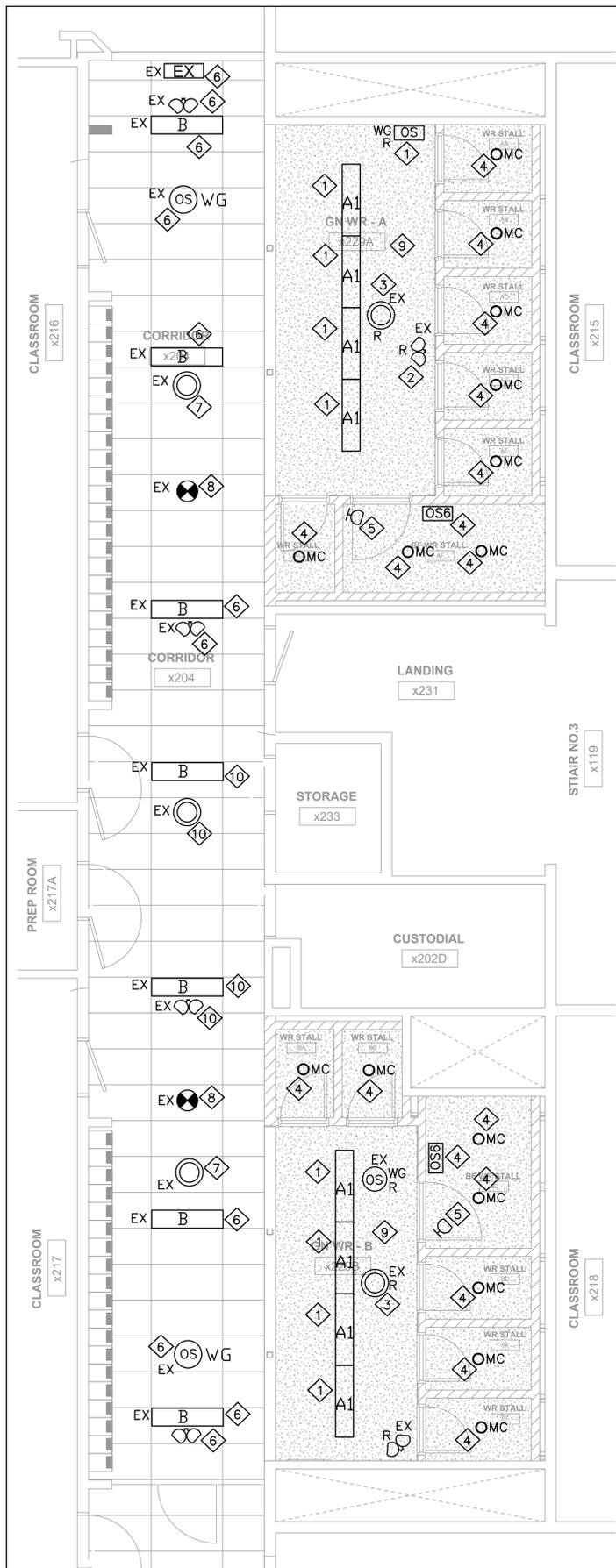
PROJECT: **ASSUMPTION CATHOLIC SECONDARY SCHOOL, GN. WR. RENO.**
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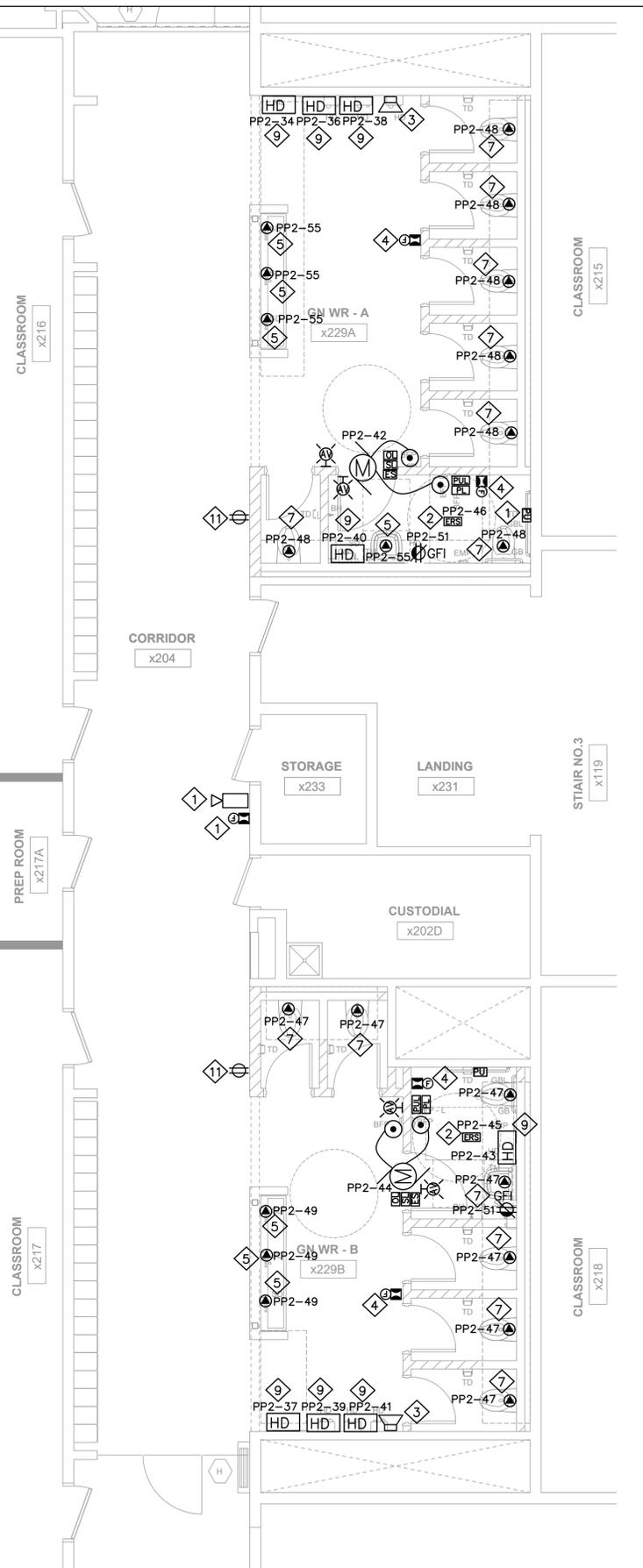
DWG TITLE: **PROPOSED GROUND AND SECOND FLOOR LIGHTING PLAN**



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- PROPOSED NOTES:**
- 1. THE ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL NEW TYPE A1 LIGHTING FIXTURES AS SHOWN ON THE ELECTRICAL DRAWINGS. POWER FOR THE NEW LIGHTING FIXTURES SHALL BE PROVIDED FROM EXISTING CIRCUITS. THE CONTRACTOR SHALL ALSO PROVIDE AND INSTALL NEW CONDUITS AND CABLES AS REQUIRED.
 - 2. THE ELECTRICAL CONTRACTOR SHALL RE-INSTALL EXISTING EMERGENCY LIGHTS AS SHOWN ON THE ELECTRICAL DRAWINGS, AS REQUIRED FOR THE WASHROOM RENOVATION. ALLOW FOR EXTENDING CABLES AND CONDUITS, TESTING, AND VERIFICATION. CONFIRM EMERGENCY LIGHTS FUNCTION EMERGENCY MODES.
 - 3. THE ELECTRICAL CONTRACTOR SHALL RE-INSTALL EXISTING CEILING-MOUNTED SPEAKERS AS SHOWN ON THE ELECTRICAL DRAWINGS, AS REQUIRED FOR THE WASHROOM RENOVATION. ALLOW FOR EXTENDING CABLES AND CONDUITS, TESTING, AND VERIFICATION. COORDINATE WITH THE AUDIO SYSTEM PROVIDER IF REQUIRED.
 - 4. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL MC TYPE NEW LIGHTING FIXTURES AS SHOWN ON THE ELECTRICAL DRAWINGS.
 - 5. CONTRACTOR TO CONNECT THE NEW EMERGENCY LIGHTING FIXTURE TO THE NEAREST EMERGENCY LIGHTING. ALLOW FOR TESTING AND VERIFICATION.
 - 6. ELECTRICAL CONTRACTOR TO RE-INSTALL EXISTING LIGHTINGS, EMERGENCY LIGHTINGS, EXIT SIGN AND OCCUPANCY SENSOR IN THE CORRIDOR AFTER FINISHING WASHROOM RENOVATION WORK. ALLOW FOR EXTENDING CABLES AND CONDUITS.
 - 7. THE ELECTRICAL CONTRACTOR SHALL RE-INSTALL EXISTING CEILING-MOUNTED SPEAKERS IN THE CORRIDOR AS REQUIRED FOR NEW WASHROOM RENOVATION WORK. ALLOW FOR EXTENDING CABLES AND CONDUITS. COORDINATE WITH THE AUDIO SYSTEM PROVIDER IF REQUIRED. ALLOW FOR TESTING AND ENSURE THE SYSTEM IS FULLY FUNCTIONAL.
 - 8. THE ELECTRICAL CONTRACTOR SHALL RE-INSTALL EXISTING FIRE ALARM SMOKE DETECTORS IN THE CORRIDOR AS SHOWN ON THE ELECTRICAL DRAWINGS, AS REQUIRED FOR THE WASHROOM RENOVATION WORK. ALLOW FOR EXTENDING CABLES AND CONDUITS, TESTING, AND VERIFICATION. COORDINATE WITH THE FIRE SYSTEM PROVIDER IF REQUIRED.
 - 9. ELECTRICAL CONTRACTOR TO RUN LV WIRING FROM ALL FIXTURES WITHIN WASHROOMS. CONNECT TO THE NETWORK.
 - 10. EXISTING TO REMAIN.
 - 11. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE MECHANICAL CONTRACTOR FOR ALL RELATED ELECTRICAL WORK. ENSURE ALL CONNECTIONS TO MECHANICAL EQUIPMENT ARE INSTALLED PER MANUFACTURER REQUIREMENTS.
 - 12. THE ELECTRICAL CONTRACTOR SHALL PROTECT ALL EXISTING EQUIPMENT, DEVICES, AND CABLES DURING WORK.
 - 13. THE ELECTRICAL CONTRACTOR SHALL ENSURE ALL WORK COMPLIES WITH THE ONTARIO ELECTRICAL SAFETY CODE AND OBTAIN NECESSARY INSPECTIONS AND APPROVALS.



- PROPOSED POWER NOTES:**
- 1. EXISTING EQUIPMENT TO REMAIN.
 - 2. CONTRACTOR TO INSTALL CONTROLLER FOR NURSES CALL IN THE CEILING SPACE OF B/F WASHROOM. POWER TO THE CONTROLLER FROM PANEL PP2 IN STORAGE ROOM AT SECOND FLOOR AS SHOWN ON THE ELECTRICAL DRAWINGS.
 - 3. CONTRACTOR TO INSTALL OCCUPANCY SENSORS FOR CONTROL OF LIGHTING IN B/F WASHROOM.
 - 4. CONTRACTOR TO PROVIDE AND INSTALL NEW FIRE ALARM HORN & STROBE AS SHOWN. CONTRACTOR TO MAKE SURE THE SOUND OF NEW FIRE ALARM HORN SYNCHRONIZES WITH EXISTING FIRE ALARM HORNS. ALLOW FOR TESTING AND VERIFICATION. EXISTING FIRE ALARM EQUIPMENT MANUFACTURER IS SIMPLEX TO MATCH EXISTING FIRE ALARM EQUIPMENT.
 - 5. ELECTRICAL CONTRACTOR SHALL PROVIDE POWER FOR THE LAVATORY AS NOTED ON THE DRAWINGS. PROVIDE APPROPRIATE SIZE LOW VOLTAGE TRANSFORMER AND ALL WIRING REQUIRED TO MAKE THE AUTOMATIC PLUMBING FIXTURE OPERABLE AS PER MANUFACTURER INSTRUCTIONS. HIDE THE LOW VOLTAGE TRANSFORMER IN A JUNCTION BOX, CO-ORDINATE WITH THE MECHANICAL TRADE.
 - 6. EXISTING DISCONNECTS TO REMAIN.
 - 7. ELECTRICAL CONTRACTOR SHALL PROVIDE POWER FOR THE AUTOMATIC PLUMBING FIXTURES AS NOTED ON THE DRAWINGS. PROVIDE APPROPRIATE SIZE LOW VOLTAGE TRANSFORMER AND ALL WIRING REQUIRED TO MAKE THE AUTOMATIC PLUMBING FIXTURE OPERABLE AS PER MANUFACTURER INSTRUCTIONS. HIDE THE LOW VOLTAGE TRANSFORMER IN A JUNCTION BOX, CO-ORDINATE WITH THE MECHANICAL TRADE.
 - 8. EXHAUST FAN SHALL INTERLOCK WITH THE LIGHTING FIXTURES. OCCUPANCY SENSOR SHALL CONTROL THE LIGHTING FIXTURES AND THE EXHAUST FAN.
 - 9. HAND DRYER SPEC :EXCEL DRYER'S XLERATOR® HAND DRYER (H-3887 STAINLESS) NEW 50% LONGER MOTOR LIFE AND INDUSTRY BEST 7-YEAR WARRANTY. XLERATOR® FEATURES ADJUSTABLE SPEED, SOUND, AND HEAT CONTROLS. AS WELL AS AN EXTERNALLY VISIBLE SERVICE LED.
 - 10. ELECTRICAL CONTRACTOR SHALL RE-INSTALL EXISTING RECEPTACLES AS SHOWN ON THE ELECTRICAL DRAWINGS, AS REQUIRED FOR THE WASHROOM RENOVATION. ALLOW FOR EXTENDING CABLES AND CONDUITS.

- GENERAL NOTES:**
1. ALL CONDUITS ARE 16MM UNLESS OTHERWISE NOTED.
 2. ALL WIRING TO BE DONE IN CONDUIT.
 3. LOCAL DOOR CONTACT FOR DOOR OPERATOR INTERLOCK OPERATION. (THIS DOOR CONTACT IS NOT REQUIRED TO BE CONNECTED TO THE SECURITY SYSTEM.)
 4. ALL LOW VOLTAGE WIRING FOR DOOR HARDWARE COMPONENTS TO BE #18 AWG, SUPPLIED AND INSTALLED BY ELECTRICAL CONTRACTOR. CO-ORDINATE ALL WORK ON SITE.
 5. MOUNTING HEIGHT OF ACTUATION, LOCKING, ASSISTANCE REQUIRED/EMERGENCY DEVICES TO BE 990MM TO 1066MM ABOVE FINISHED FLOOR.
 6. CONTRACTOR TO PROVIDE AND INSTALL A/V DEVICE FOR EACH WASHROOM IN THE MAIN OFFICE. FINAL LOCATION OF THE A/V DEVICES IN THE OFFICE TO BE DETERMINED ON SITE WITH OWNER.
 7. CONTRACTOR TO PROVIDE AND INSTALL ROUND CAMDEN MOUNTING BOX ENCLOSURES CM-79 FOR DOOR OPERATOR PUSH BUTTONS.
 8. ELECTRICAL BOXES OR DEVICES WITH SHARP EDGES NOT PERMITTED ON SCHOOL PROJECT.
 9. BARRIER FREE WASHROOM DOOR SHALL DE-ENERGIZE UPON NURSES CALL SO THAT ASSISTANCE CAN BE PROVIDED TO THE PERSON INSIDE THE B/F WASHROOM. THE BARRIER FREE WASHROOM DOOR SHALL HAVE KEY CORE WITH STORE ROOM FUNCTION SO THAT THE DOOR CAN BE OPENED FROM OUTSIDE IF THE PERSON INSIDE THE B/F WASHROOM IS NOT IN A POSITION TO PRESS THE CALL ASSIST BUTTON.
 10. ALL DOOR OPERATORS SHALL BE INSTALLED ON THE INNER SIDE OF THE DOOR WITH A SWITCH TO TURN OFF THE DOOR OPERATOR FROM INSIDE.
 11. CALL UNIT SHALL BE INSTALLED IN THE MAIN OFFICE. FINAL LOCATION IN THE MAIN OFFICE TO BE DETERMINED ON SITE WITH OWNER.

1 PROPOSED SECOND FLOOR WASHROOM LIGHTING PLAN
E3.1 1:50

2 PROPOSED SECOND FLOOR WASHROOM POWER PLAN
E3.1 1:50

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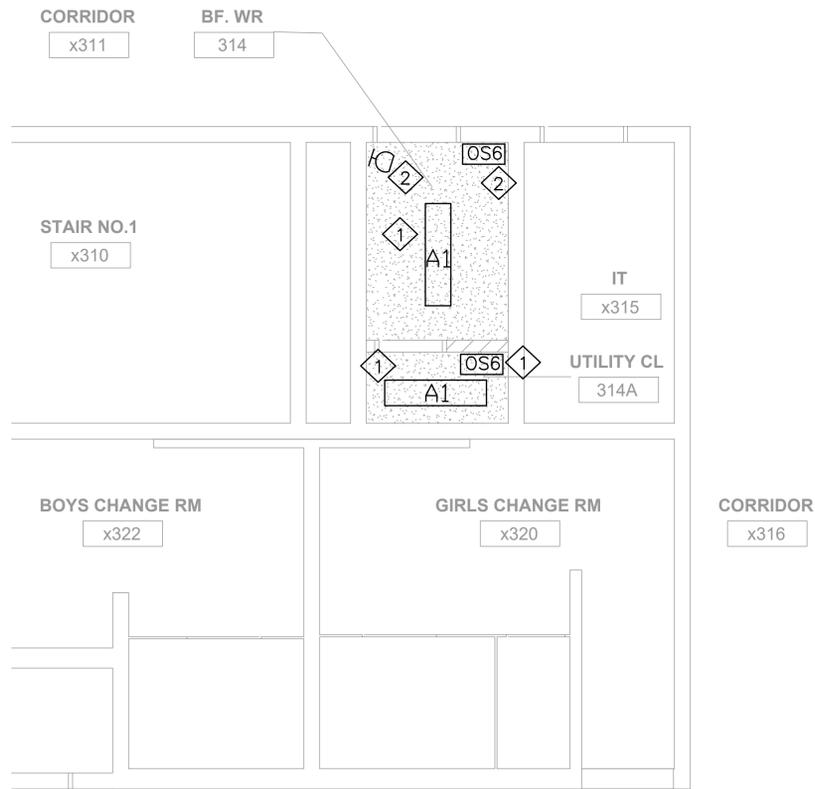
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DWG TITLE:
PROPOSED SECOND FLOOR POWER AND LIGHTING PLAN

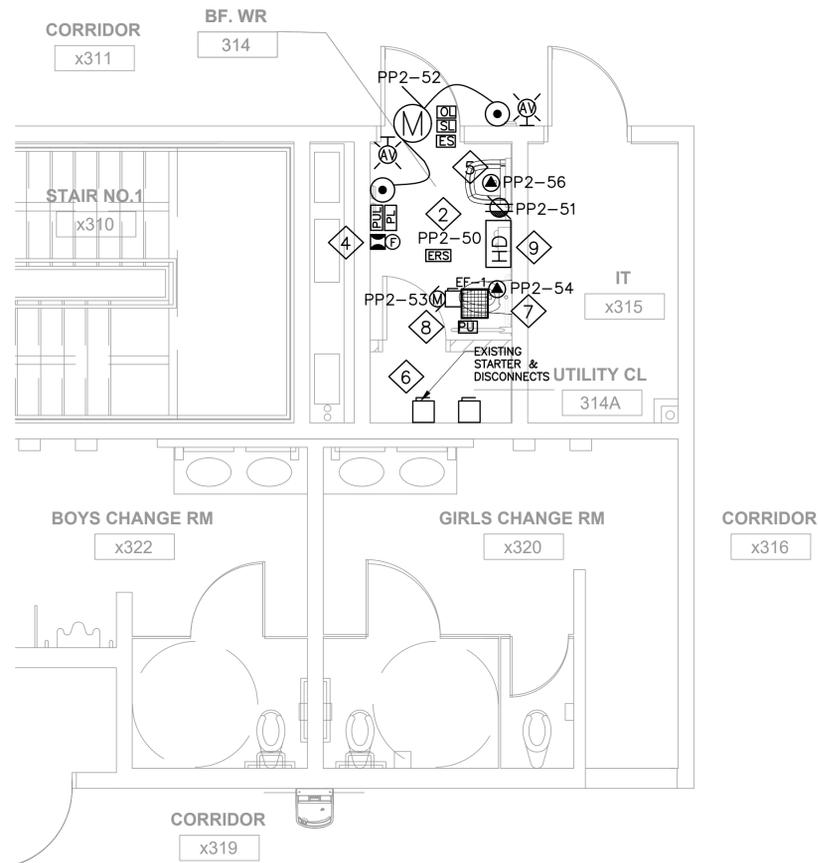


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PROPOSED NOTES:

- 1 THE ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL NEW TYPE A1 LIGHTING FIXTURES AND CONTROLS AS SHOWN ON THE ELECTRICAL DRAWINGS. POWER FOR THE NEW LIGHTING FIXTURES SHALL BE PROVIDED FROM EXISTING CIRCUITS. THE CONTRACTOR SHALL ALSO PROVIDE AND INSTALL NEW CONDUITS AND CABLES AS REQUIRED.
- 2 CONTRACTOR TO CONNECT THE NEW EMERGENCY LIGHTING FIXTURE TO THE NEAREST EMERGENCY LIGHTING, ALLOW FOR TESTING AND VERIFICATION.
- 3 THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE MECHANICAL CONTRACTOR FOR ALL RELATED ELECTRICAL WORK. ENSURE ALL CONNECTIONS TO MECHANICAL EQUIPMENT ARE INSTALLED PER MANUFACTURER REQUIREMENTS.
- 4 THE ELECTRICAL CONTRACTOR SHALL PROTECT ALL EXISTING EQUIPMENT, DEVICES, AND CABLES DURING WORK.
- 5 THE ELECTRICAL CONTRACTOR SHALL ENSURE ALL WORK COMPLIES WITH THE ONTARIO ELECTRICAL SAFETY CODE AND OBTAIN NECESSARY INSPECTIONS AND APPROVALS.



PROPOSED POWER NOTES:

- 1 EXISTING EQUIPMENT TO REMAIN.
- 2 CONTRACTOR TO INSTALL CONTROLLER FOR NURSES CALL IN THE CEILING SPACE OF B/F WASHROOM. POWER TO THE CONTROLLER FROM PANEL PP2 IN STORAGE ROOM AT SECOND FLOOR AS SHOWN ON THE ELECTRICAL DRAWINGS.
- 3 CONTRACTOR TO INSTALL OCCUPANCY SENSORS FOR CONTROL OF LIGHTING IN B/F WASHROOM.
- 4 CONTRACTOR TO PROVIDE AND INSTALL NEW FIRE ALARM HORN & STROBE AS SHOWN. CONTRACTOR TO MAKE SURE THE SOUND OF NEW FIRE ALARM HORN SYNCHRONIZES WITH EXISTING FIRE ALARM HORNS. ALLOW FOR TESTING AND VERIFICATION. EXISTING FIRE ALARM EQUIPMENT MANUFACTURER IS SIMPLEX TO MATCH EXISTING FIRE ALARM EQUIPMENT.
- 5 ELECTRICAL CONTRACTOR SHALL PROVIDE POWER FOR THE LAVATORY AS NOTED ON THE DRAWINGS. PROVIDE APPROPRIATE SIZE LOW VOLTAGE TRANSFORMER AND ALL WIRING REQUIRED TO MAKE THE AUTOMATIC PLUMBING FIXTURE OPERABLE AS PER MANUFACTURER INSTRUCTIONS. HIDE THE LOW VOLTAGE TRANSFORMER IN A JUNCTION BOX, CO-ORDINATE WITH THE MECHANICAL TRADE.
- 6 EXISTING DISCONNECTS TO REMAIN.
- 7 ELECTRICAL CONTRACTOR SHALL PROVIDE POWER FOR THE AUTOMATIC PLUMBING FIXTURES AS NOTED ON THE DRAWINGS. PROVIDE APPROPRIATE SIZE LOW VOLTAGE TRANSFORMER AND ALL WIRING REQUIRED TO MAKE THE AUTOMATIC PLUMBING FIXTURE OPERABLE AS PER MANUFACTURER INSTRUCTIONS. HIDE THE LOW VOLTAGE TRANSFORMER IN A JUNCTION BOX, CO-ORDINATE WITH THE MECHANICAL TRADE.
- 8 EXHAUST FAN SHALL INTERLOCK WITH THE LIGHTING FIXTURES, OCCUPANCY SENSOR SHALL CONTROL THE LIGHTING FIXTURES AND THE EXHAUST FAN.
- 9 HAND DRYER SPEC :EXCEL DRYER'S XLERATOR® HAND DRYER (H-3887 STAINLESS) NEW 50% LONGER MOTOR LIFE AND INDUSTRY BEST 7-YEAR WARRANTY. XLERATOR® FEATURES ADJUSTABLE SPEED, SOUND, AND HEAT CONTROLS, AS WELL AS AN EXTERNALLY VISIBLE SERVICE LED.
- 10 ELECTRICAL CONTRACTOR SHALL RE-INSTALL EXISTING RECEPTACLES AS SHOWN ON THE ELECTRICAL DRAWINGS, AS REQUIRED FOR THE WASHROOM RENOVATION. ALLOW FOR EXTENDING CABLES AND CONDUITS.

GENERAL NOTES:

1. ALL CONDUITS ARE 16MM UNLESS OTHERWISE NOTED.
2. ALL WIRING TO BE DONE IN CONDUIT.
3. LOCAL DOOR CONTACT FOR DOOR OPERATOR INTERLOCK OPERATION. (THIS DOOR CONTACT IS NOT REQUIRED TO BE CONNECTED TO THE SECURITY SYSTEM.)
4. ALL LOW VOLTAGE WIRING FOR DOOR HARDWARE COMPONENTS TO BE #18 AWG, SUPPLIED AND INSTALLED BY ELECTRICAL CONTRACTOR. CO-ORDINATE ALL WORK ON SITE.
5. MOUNTING HEIGHT OF ACTUATION, LOCKING, ASSISTANCE REQUIRED/EMERGENCY DEVICES TO BE 990MM TO 1066MM ABOVE FINISHED FLOOR.
6. CONTRACTOR TO PROVIDE AND INSTALL A/V DEVICE FOR EACH WASHROOM IN THE MAIN OFFICE. FINAL LOCATION OF THE A/V DEVICES IN THE OFFICE TO BE DETERMINED ON SITE WITH OWNER.
7. CONTRACTOR TO PROVIDE AND INSTALL ROUND CAMDEN MOUNTING BOX ENCLOSURES CM-79 FOR DOOR OPERATOR PUSH BUTTONS.
8. ELECTRICAL BOXES OR DEVICES WITH SHARP EDGES NOT PERMITTED ON SCHOOL PROJECT.
9. BARRIER FREE WASHROOM DOOR SHALL DE-ENERGIZE UPON NURSES CALL SO THAT ASSISTANCE CAN BE PROVIDED TO THE PERSON INSIDE THE B/F WASHROOM. THE BARRIER FREE WASHROOM DOOR SHALL HAVE KEY CORE WITH STORE ROOM FUNCTION SO THAT THE DOOR CAN BE OPENED FROM OUTSIDE IF THE PERSON INSIDE THE B/F WASHROOM IS NOT IN A POSITION TO PRESS THE CALL ASSIST BUTTON.
10. ALL DOOR OPERATORS SHALL BE INSTALLED ON THE INNER SIDE OF THE DOOR WITH A SWITCH TO TURN OFF THE DOOR OPERATOR FROM INSIDE.
11. CALL UNIT SHALL BE INSTALLED IN THE MAIN OFFICE. FINAL LOCATION IN THE MAIN OFFICE TO BE DETERMINED ON SITE WITH OWNER.

1 PROPOSED THIRD FLOOR WASHROOM LIGHTING PLAN
E3.2 1:40

2 PROPOSED THIRD FLOOR WASHROOM POWER PLAN
E3.2 1:40

The Contractor shall verify all dimensions prior to commencement of the work. All print and specifications are the property of the Architect and must be returned upon completion of the work.

ISSUE OR REVISION

No.	Description	Date
1	ISSUED FOR REVIEW	MAR 07 2025
2	ISSUED FOR TENDER	MAR 17 2025
3		
4		
5		
6		

ASSUMPTION CATHOLIC SECONDARY SCHOOL, GN. WR. RENO.
 3230 WOODWARD AVE, BURLINGTON, ONTARIO, L7N 3P1
 HALTON CATHOLIC DISTRICT SCHOOL BOARD

PROFESSIONAL SEAL :



DWG TITLE :
PROPOSED THIRD FLOOR POWER AND LIGHTING PLAN



REGAL CONSULTING ENGINEERS INC.
 CONSULTING MECHANICAL & ELECTRICAL ENGINEERS
 208 Wyecroft Road, Suite 200, Oakville, ON L6K 3S3
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DATE : **MAR 2025**

SCALE : **AS NOTED**

DRAWN BY : **AS**

CHECKED BY : **MA**

DWG STATUS : **TENDER**

PROJECT No. : **2025-480**

DRAWING No. : **E3.2** REVISION

ELECTRICAL SPECIFICATION

SCOPE OF WORK

- 1. SUPPLY LABOUR, TOOLS, SERVICES, EQUIPMENT AND PROVIDE MATERIALS REQUIRED TO COMPLETE WORK IN ACCORDANCE WITH THIS SPECIFICATION AND DRAWINGS. COMPLY WITH LAWS, REGULATIONS AND CODES OF AUTHORITIES HAVING JURISDICTION. CONFORM TO REQUIREMENTS OF BIDDING DOCUMENTS AND DIVISION 1.

EXAMINATION OF SITE AND DOCUMENTS

- 1. PROVIDE TO SUBMITTING BID, CAREFULLY EXAMINE CONDITIONS AT SITE WHICH WILL OR MAY AFFECT WORK, DRAWINGS AND SPECIFICATION AND BECOME FAMILIAR WITH BUILDING CONSTRUCTION, FINISHES AND OTHER WORK ASSOCIATED WITH WORK IN ORDER THAT BID INCLUDES FOR EVERYTHING NECESSARY FOR COMPLETION OF WORK.

PERMITS, CERTIFICATES AND FEES

- 1. PAY FOR AND OBTAIN PERMITS TO COMPLETE WORK. WHEN WORK IS COMPLETE, SUPPLY AND TURN OVER INSPECTION CERTIFICATES FROM GOVERNING AUTHORITIES TO CONSULTANT. PAY FEES AND CHARGES LEVIED BY MUNICIPALITY AND OTHER GOVERNING AUTHORITIES FOR PERMITS, INSPECTIONS AND CERTIFICATES. KEEP COPY OF SUCH PERMITS AND CERTIFICATES, ETC. ON JOB SITE.

CO-ORDINATION AND CO-OPERATION

- 1. ELECTRICAL CONTRACTOR TO CO-ORDINATE HIS WORK WITH WORK OF ALL TRADES TO ENSURE A PROPER AND COMPLETE INSTALLATION. NOTIFY ALL TRADES CONCERNED OF REQUIREMENT FOR OPENINGS, SLEEVES, INSERTS AND OTHER HARDWARE NECESSARY IN THEIR WORK FOR INSTALLATION OF HIS WORK AND WHERE HIS WORK IS TO BE INTEGRATED WITH WORK OF OTHER TRADES OR IS TO BE INSTALLED IN CLOSE PROXIMITY WITH WORK OF OTHER TRADES, CAREFULLY CO-ORDINATE WORK PRIOR TO ANY RIGGING OR INSTALLATION.
2. EXACT LOCATIONS AND ROUTING OF SERVICES MUST BE PROPERLY PLANNED CO-ORDINATED AND ESTABLISHED WITH ALL AFFECTED TRADES PRIOR TO INSTALLATION SUCH THAT THEY WILL CLEAR EACH OTHER AS WELL AS ANY OBSTRUCTIONS. GENERALLY, PIPING REQUIRING UNIFORM FITCH SHALL BE GIVEN RIGHT OF WAY WITH OTHER SERVICE LOCATED AND ATTACHED TO SUIT.

NOISE CONTROL

- 1. WORK WHICH MAY CAUSE NOISE DISTURBANCES MUST BE SCHEDULED AT TIMES APPROVED BY CONSULTANT. CO-ORDINATE WORK WITH TRADES TO MINIMIZE NOISE DISTURBANCES.

CLEAN UP

- 1. DURING CONSTRUCTION, KEEP SITE REASONABLY CLEAR OF RUBBISH AND WASTE MATERIAL RESULTING FROM WORK ON DAILY BASIS. AFTER COMPLETION OF WORK, REMOVE RUBBISH AND DEBRIS, ARRANGE AND PAY FOR REPAIR OF DAMAGES CAUSED AND LEAVE PREMISES AND WORK IN GOOD ORDER.

PROTECTION OF EQUIPMENT

- 1. PROPERLY PROTECT AND STORE ALL EQUIPMENT AND MATERIAL ON SITE FROM DAMAGE. CONTRACTOR SHALL BE RESPONSIBLE FOR SAFE STORAGE OF ALL EQUIPMENT AND GOODS TO BE RELOCATED AND SHALL REPAIR OR REPLACE DAMAGED EQUIPMENT AND GOODS AT DISCRETION OF OWNER.

INSPECTION OF WORK

- 1. CONSULTANT SHALL AT ALL TIMES HAVE ACCESS TO WORK AND SHALL BE NOTIFIED AT AGREED UPON TIMES OF STAGES OF WORK.
2. CONTRACTOR SHALL GIVE CONSULTANT TIMELY NOTICE OF DATE (WITHIN 48 HOURS AFTER PERFORMANCE) WHEN FOLLOW STAGES OF WORK HAVE BEEN PERFORMED: WHEN 33% OF WORK HAS BEEN COMPLETED; WHEN 66% OF WORK HAS BEEN COMPLETED; WHEN 95% OF WORK HAS BEEN COMPLETED.
3. WHERE STANDARDS OF WORK ARE SPECIFIED OR IMPLIED AND WORK DOES NOT COMPLY WITH PERFORMANCE SPECIFIED OR IMPLIED, SUCH DEFICIENCY SHALL BE CORRECTED AS DIRECTED BY CONSULTANT. ANY SUBSEQUENT TESTING TO VERIFY PERFORMANCE SHALL BE DOWN AT CONTRACTOR'S EXPENSE. AND CHARGE FOR OWNER'S STAFF CONSULTANT OR OTHER PERSONNEL RELATED TO SUCH RE-TESTING SUCH ALSO AT EXPENSE OF CONTRACTOR.

PRODUCTS

- 1. PRODUCTS LISTED AND/OR SPECIFIED ON CONTRACT DOCUMENTS ARE SELECTED TO ESTABLISH DESIGN STANDARDS. IN MOST CASES, ACCEPTABLE MANUFACTURERS ARE LISTED. BASE ON BID PRICE ON BASE SPECIFIED PRODUCTS OR PRODUCTS SUPPLIED FROM ACCEPTABLE MANUFACTURERS. ENSURE PRODUCTS SUPPLIED FROM MANUFACTURERS OTHER THAN BASE SPECIFIED MANUFACTURERS ARE EQUIVALENT TO SPECIFIED PRODUCTS. PROPOSED SUBSTITUTIONS OF MANUFACTURERS OF PRODUCTS MAY BE PROPOSED TO CONSULTANT FOR ACCEPTANCE. LISTING IN EACH CASE CORRESPONDING CREDIT. CONSULTANT HAS SOLE DISCRETION IN ACCEPTING ANY PROPOSED SUBSTITUTION. INCLUDE IN BID PRICE ANY ADDITIONAL PRODUCTS SUPPLY BY MANUFACTURER OTHER THAN BASE SPECIFIED MANUFACTURER.

WARRANTY

- 1. WARRANTY WORK TO BE IN STRICT ACCORDANCE WITH CONTRACT DOCUMENTS AND FREE FROM DEFECTS FOR A YEAR PERIOD FROM DATE OF WRITTEN ACCEPTANCE BY CONSULTANT. REPAIR AND/OR REPLACE ANY SUCH DEFECTS WHICH APPEAR IN WORK WITHIN WARRANTY PERIOD, ORDINARY WEAR AND EAR AND USEFUL DAMAGE BY, OR CARELESSNESS OF OWNER'S STAFF OR AGENTS EXCEPTED, WITHOUT ADDITIONAL COSTS INCURRED IN MAKING DEFECTIVE WORK GOOD, INCLUDING REPAIR OR REPLACEMENT OF BUILDING FINISHES, OTHER MATERIALS OR REPLACEMENT OR EQUIPMENT CAUSED BY SUCH DEFECTS, OR BY SUBSEQUENT DAMAGE OR REPAIRS.

INTERRUPTIONS TO AND SHUTDOWNS OF EXISTING SERVICES AND SYSTEMS

- 1. CO-ORDINATE AND PERFORM SHUTDOWNS AND INTERRUPTIONS TO EXISTING SYSTEMS AND SERVICES AT TIMES ACCEPTABLE TO OWNER. OBTAIN WRITTEN APPROVAL IN ADVANCE OF SHUTDOWN OR INTERRUPTION. INCLUDE FOR COSTS OF PREMIUM TIME TO PERFORM WORK DURING NIGHTS, WEEKENDS OR OTHER TIME OUTSIDE OF NORMAL WORKING HOURS, AS NECESSARY TO MAINTAIN SERVICES IN OPERATION OR WITH MINIMUM INTERRUPTIONS AND TO INTERRUPTION WILL BE CARRIED OUT AS CONTINUOUS OPERATION TO MINIMIZE SHUTDOWN TIME AND TO REINSTATE SYSTEMS AS SOON AS POSSIBLE AND PRIOR TO SHUTDOWN, ENSURE MATERIALS AND LABOUR REQUIRED TO COMPLETE WORK FOR WHICH SHUTDOWN IS REQUIRED ARE AVAILABLE AT SITE.

CUTTING, PATCHING AND CORE DRILLING

- 1. DO CUTTING, PATCHING AND CORE DRILLING OF EXISTING BUILDING REQUIRED FOR INSTALL OF WORK. PERFORM CUTTING TO NEAT AND TRUE FASHION, WITH PROPER TOOLS AND EQUIPMENT TO OWNER'S APPROVAL.
2. IN FIRE RATED CONSTRUCTION PACK AND SEAL VOID BETWEEN OPENING AND CONDUIT FOR LENGTH OF OPENING WITH ASBESTOS-FREE ELASTOMERIC ULC LISTED AND LABELED MATERIALS. INSTALL FIRE-STOP AND SMOKE SEAL MATERIALS IN ACCORDANCE TO ULC CERTIFICATION AND MANUFACTURER'S REQUIREMENTS TO PROVIDE FIRE-STOP RATINGS OF OPENINGS IN ACCORDANCE WITH GOVERNING BUILDING CODE REQUIREMENTS.
3. DO NOT CUT OR DRILL EXISTING WORK WITHOUT PRIOR OWNER'S APPROVAL IN CONSULTATION WITH OWNER AND BY USE OF X-RAY WITH OWNER'S APPROVAL. DETERMINE PRESENCE OF EXISTING SERVICES AND PERFORMING ROD CONCEALED BEHIND SURFACE TO BE CUT. NOTE: ELECTRICAL CONTRACTOR WILL BE HELD RESPONSIBLE FOR DAMAGE DONE TO EXISTING BUILDING AND SERVICES CAUSED BY CUTTING OR DRILLING.

DISCONNECTION, REMOVAL AND RELOCATION

- 1. WHERE INDICATED ON DRAWINGS AND DETERMINED BY SITE VISIT, DISCONNECT AND REMOVE ITEMS OF EXISTING OBSOLETE ELECTRICAL WORK AND RELOCATE DEVICES, WHERE FIXTURES, SWITCHES, RECEPTACLES AND OTHER DEVICES AND/OR EQUIPMENT IS REMOVED, DISCONNECT AT POINT OF ELECTRICAL SUPPLY, REMOVE OBSOLETE WIRING AND MAKE SYSTEM SAFE, WHERE EXISTING OBSOLETE CONDUIT AND SIMILAR RACEWAY MATERIAL CANNOT BE REMOVED, CUT BACK AND CAP OBSOLETE CONDUITS OR RACEWAYS, REVISE PANELBOARD DIRECTORIES ACCORDINGLY IF AFFECTED BY WORK.
2. UNLESS OTHERWISE NOTED, OBSOLETE MATERIALS WHICH ARE DISCONNECTED AND ARE NOT TO BE RELOCATED OR REUSED WILL BECOME THE PROPERTY OF THE ELECTRICAL CONTRACTOR, REMOVE FROM SITE AND DISPOSE. OBTAIN FROM OWNER, LIST OF EXISTING ITEMS TO BE CAREFULLY REMOVED AND TURNED OVER TO OWNER. SAID ITEMS WILL REMAIN PROPERTY OF OWNER.
3. PROVIDE JUNCTION BOXES, OUTLET BOXES, WIRING, PLATES, ETC., AS NECESSARY FOR COMPLETE RELOCATION OF DEVICES. CLEAN AND RE-LAMP RELOCATED LUMINAIRES. REPLACE FAULTY BALLASTS. WHEN RELOCATION WORK IS COMPLETE, CONFIRM RELOCATED DEVICES ARE IN PROPER ORDER.
4. WHERE EXISTING SERVICES PASS THROUGH OR ARE IN AN AREA TO SERVE ITEMS WHICH ARE TO REMAIN, MAINTAIN SERVICES. INCLUDE FOR RE-ROUTING EXISTING SERVICES CONCEALED BEHIND FINISHES AND WHICH BECOME EXPOSED DURING RENOVATION WORK, SO AS TO BE CONCEALED BEHIND FINISHES.
5. IN AREAS WHICH ARE NOT BEING ARCHITECTURALLY RENOVATED AND WHICH DIVISION 16 MUST RUN SERVICES THROUGH, BE RESPONSIBLE FOR REMOVAL AND REINSTALLATION OF ARCHITECTURAL CEILING, MECHANICAL EQUIPMENT, SPRINKLERS, ETC., AS REQUIRED FOR INSTALLING OF ELECTRICAL CONTRACTOR'S WORK. PATCH AND MAKE GOOD (INCLUDING PAINTING) SURFACES TO MATCH EXISTING.

HAZARDOUS MATERIALS

- 1. AT ANY TIME DURING COURSE OF WORK ASBESTOS MATERIALS ARE ENCOUNTERED OR SUSPECTED, CEASE WORK IN AREA IN QUESTION AND IMMEDIATELY REPORT IN ACCORDANCE WITH ONTARIO REGULATION 654/765 (SECTION 7) TO CONSULTANT. DO NOT RESUME WORK IN AFFECTED AREA WITHOUT APPROVAL FROM CONSULTANT.

RECORD DRAWINGS (AS-BUILTS)

- 1. DRAWINGS FOR THIS PROJECT HAVE BEEN PREPARED ON A CAD SYSTEM. THE SOFTWARE USED IS AUTOCAD RELEASE 2014. COPIES OF DRAWINGS ON DISKS FOR USE IN PREPARING AS-BUILTS, MAY BE PURCHASED FROM CONSULTANT AT A COST OF \$40 CAD, PLUS GST PER DRAWING.
2. WHEN WORK BEGINS AT SITE, CLEARLY AND ACCURATELY MARK ON A BOUND SET OF WHITE PRINTS OF CONTRACT DRAWINGS ON A DAILY BASIS ALL CHANGES AND DEVIATION FROM ROUTING OF AND LOCATIONS OF EQUIPMENT SHOWN ON CONTRACT DRAWINGS CHANGE AND DEVIATION INCLUDING THOSE MADE BY ADDENDA, CHANGE ORDERS AND SITE INSTRUCTION, AND CHANGES AND DEVIATIONS INDICATED ON SUPPLEMENTAL DRAWINGS ISSUED WITH ADDENDA, CHANGE ORDERS AND SITE INSTRUCTIONS. MAINTAIN "AS-BUILT" WITH PRINTS AT SITE FOR PERIODIC INSPECTION BY CONSULTANT THROUGHOUT DURATION OF WORK. PAY PARTICULAR ATTENTION TO ACCURATELY DIMENSIONING LOCATION OF ALL CONCEALED SERVICES TERMINATED FOR FUTURE EXTENSION, ALL BURRED WORK AND SERVICES AND WORK CONCEALED WITHIN BUILDING IN INACCESSIBLE LOCATIONS.
3. WHEN WORK ENDS AT SITE, UPDATE A COPY OF CONTRACT DOCUMENT DRAWING DISC SET SO THAT IT REFLECTS ALL DEVIATIONS FROM ORIGINAL CONTRACT DOCUMENT DRAWINGS, THUS FORMING A TRUE "AS-BUILT" DRAWING DISC SET. PROVIDE A SET OF REPRODUCIBLE MYLAR PRINTS OF CONTRACT DRAWINGS PRODUCED FROM TRUE "AS-BUILT" MYLAR PRINTS TO CONSULTANT. ALL SUBMITTED DRAWINGS SHALL BE OF THE SAME QUALITY AS ORIGINAL CONTRACT DOCUMENT DRAWINGS.
4. UPDATE OWNER'S DISTRIBUTION RISER DIAGRAMS POSTED IN ELECTRICAL ROOM.

SHOP DRAWINGS AND OPERATING & MAINTENANCE INSTRUCTION MANUALS

- 1. SUBMIT SHOP DRAWINGS AND OPERATION & MAINTENANCE INSTRUCTION MANUALS FOR THE FOLLOWING:
1.1 PANELBOARD;
1.2 BREAKERS;
2. PROPERLY IDENTIFY SHOP DRAWING FOR REVIEW AND SHOW IN DETAIL EQUIPMENT AND MATERIALS ENDORSE EACH DRAWING, INCLUDE COMPANY NAME AND SUBMITTAL DATE. PROVIDE MANUALS AS INDEXED, IDENTIFIED HARD, COVER 3-RING BINDERS COMPLETE WITH:
2.1 A COPY OF EACH 'REVIEWED' SHOP DRAWING;
2.2 EXPLANATIONS OF OPERATING PRINCIPLES AND SEQUENCES;
2.3 PART LISTS WITH NUMBERS;
2.4 RECOMMEND MAINTENANCE PRACTICES AND PRECAUTIONS;
2.5 COPIES OF INSPECTION CERTIFICATES ISSUED BY GOVERNING AUTHORITIES;
2.6 COPIES OF PANELBOARD DIRECTORIES.
3. PROVIDE 2 SETS OF MANUALS. CONFIRM EXACT QUANTITY AND METHOD OF SUBMISSION WITH CONSULTANT.

GENERAL CONDUIT AND CONDUCTOR INSTALLATION REQUIREMENTS

- 1. INSTALL CONDUIT AND CONDUCTORS CONCEALED TO DEGREE MADE POSSIBLE BY FINISHES AND PROVIDED INSTALLATIONS IN ACCORDANCE WITH ELECTRICAL SAFETY CODE AND LOCAL GOVERNING AUTHORITIES. PLAN AND CO-ORDINATE LOCATIONS AND ROUTING OF SERVICES WITH TRADES PRIOR TO INSTALLATION. IN AREAS WHERE A MULTIPLICITY OF SERVICES OCCURS, PREPARE DETAIL DRAWINGS AND SUBMIT TO CONSULTANT FOR REVIEW PRIOR TO START OF AFFECTED WORK.
2. WHERE CONDUIT AND/OR CONDUCTORS ARE EXPOSED, ARRANGE SAME TO AVOID INTERFERENCE WITH OTHER WORK AND PARALLEL TO BUILDING LINES. WHERE HORIZONTAL CONDUITS AND/OR CONDUCTORS ARE EXPOSED, INSTALL AS HIGH AS POSSIBLE. DO NOT INSTALL CONDUIT AND/OR CONDUCTORS WITHIN 6" (150MM) OF 'HOT' PIPES OR EQUIPMENT UNLESS CONDUIT AND/OR CONDUCTORS ARE ASSOCIATED WITH EQUIPMENT, INDEPENDENTLY RUN CONDUIT AND CONDUCTORS MUST BE SUPPORTED FROM THE CEILING OR WALL STRUCTURE, NOT FROM CEILING HANGERS, DUCTWORK, PIPING, CABLE TRAYS ETC.
3. IDENTIFY CONDUIT RUNS (IE. TAG BOTH ENDS OF CONDUIT RUNS)

CONDUITS

- 1. PROVIDE CONDUIT FOR CONDUCTORS. CONDUIT TO BE EMT (THIN WALL) GALVANIZED ELECTRICAL METALLIC TUBING TO CSA C222 NO. 83, COMPLETE WITH FACTORY MADE BENDS WHERE SITE BENDING IS NOT POSSIBLE AND JOINTS AND TERMINATIONS MADE WITH SET SCREW TYPE CONNECTORS, FOR SHORT BRANCH CIRCUIT CONNECTORS TO MOTORIZED EQUIPMENT AND TRANSFORMERS (MINIMUM LENGTH 18" (450MM), MAXIMUM LENGTH 24" (600MM) WITH 180 DEGREE LOOP WERE POSSIBLE)-GALVANIZED STEEL FLEXIBLE FLUID - TIGHT METALLIC CONDUIT TO CSA C222 NOT. 56, COMPLETE WITH IDEAL STEEL TOUGH LIQUID TIGHT FLEXIBLE CONDUIT CONNECTORS AT TERMINATIONS, FOR CONDUIT GREATER THAN 2" (1200MM), PROVIDE RIGID GALVANIZED STEEL TO CSA C222 NO. 45 COMPLETE WITH FITTINGS, CONNECTORS AND RIGID COUPLINGS.)
2. SUPPORT AND SECURE CONDUIT AT SPACING IN ACCORDANCE WITH CODE REQUIREMENTS BY MEANS OF GALVANIZED PIPE STRAPS, CONDUIT CLIPS, RING BOLT TYPE HANGERS OR BY OTHER PROPER MANUFACTURER DEVICES. PROVIDE CONDUIT FITTINGS CONSTRUCTED OF SAME MATERIALS AS CONDUIT AND SUITABLE FOR APPLICATION. SQUARE AND PROPERLY REAM ENDS OF SITE CUT CONDUIT. GENERALLY CONDUIT IS SIZED ON DRAWINGS. SIZE CONDUIT NOT SIZED ON DRAWING IN ACCORDANCE WITH CODE. BEND CONDUIT AT FULL CONDUIT DIAMETER WITH NO KINKS AND NO OPAKING/R R CRACKING OF FINISHES.

CONDUCTORS

- 1. ALL CONDUCTORS SHALL BE COPPER UNLESS INDICATED OTHERWISE.
2. CONDUCTORS #10 AWG AND SMALLER SHALL BE SOLID. CONDUCTORS #8 AND LARGER SHALL BE STRANDED.
3. CONDUCTORS SHALL BE SIZED #12 AWG MINIMUM, EXCEPT FOR CONTROL CIRCUITS WHERE #14 AWG MINIMUM. SIZE IS PERMITTED. FEEDER SIZES AS INDICATED.
4. SIZE CONDUCTORS FOR A 2% MAXIMUM VOLTAGE DROP FROM OCCURRENCE DEVICE TO FARTHEST OUTLET.
5. CONDUCTOR INSULATION RATED FOR 600V MINIMUM UNLESS STATED OTHERWISE.
6. CONDUCTOR TYPES:
6.1 TW75, TWU TO C.S.A. #C222 NO. 75
6.2 RW90, RW90 (XLPE) TO C.S.A. #C222 NO. 38
6.3 TW75, RW90 (XLPE) - INSIDE BUILDING.
6.4 TWU, RW90 (XLPE) - CONDUCTORS DIRECT BURRED OR IN CONDUIT OUTSIDE BUILDING.
6.5 FLEXIBLE CONDUIT CONVENTION AND SUITABLE INTERMEDIATE ACCESSIBLE BY (ARMORED CABLE) IS ONLY PERMITTED FOR LIGHT FIXTURE DROPS IN ACOUSTIC CEILING (MAX LENGTH 5'-0")

OUTLET BOXES, PULL BOXES AND JUNCTION BOXES

- 1. PROVIDE CSA APPROVED STAMPED GALVANIZED STEEL OUTLET BOX FOR EACH LUMINAIRE, FIRE ALARM DEVICE, ETC. REFER TO DRAWINGS FOR LOCATIONS OF OUTLETS. CONFIRM EXACT LOCATIONS PRIOR TO BEGINNING.
2. PROVIDE PULL BOXES AND JUNCTION BOXES WHEREVER NECESSARY TO FACILITATE CONDUCTOR & CONDUIT INSTALLATIONS. GENERALLY, PROVIDE CONDUIT RUNS EXCEEDING 100' (30M) IN LENGTH OR WITH MORE THAN 3, 90 DEGREE BENDS WITH PULL BOX INSTALLED AT CONVENIENT AND SUITABLE INTERMEDIATE ACCESSIBLE LOCATION. PROVIDE JUNCTION BOXES AND PULL BOXES SIZED IN ACCORDANCE WITH CODE TO SUIT NUMBER AND SIZE OF CONDUITS AND CONDUCTORS. BOXES TO BE GALVANIZED OR PRIME COATED PLATED STEEL COMPLETE WITH SCREW-ON OR HINGED COVERS AND KNOCKOUTS. BOXES MUST BE ACCESSIBLE AFTER WORK IS COMPLETE.
3. SIZE, ARRANGEMENT AND TYPE OF BOXES MUST BE SUITABLE FOR APPLICATION. PROVIDE BLANK COVER PLATES ON EXISTING OBSOLETE BOXES WHICH ARE TO REMAIN. CLEARLY IDENTIFY MAIN PULL OR JUNCTION BOXES BY SPRAY PAINTING COVERS IN ACCORDANCE WITH FOLLOWING COLOUR SCHEDULE:
3.1 LIGHTING - YELLOW
3.2 NORMAL POWER - BLUE
3.3 ESSENTIAL POWER - ORANGE
3.4 FIRE ALARM - RED
4. WHERE REQUIRED, SUPPLY ACCESS DOORS OF MINIMUM NO. 23 GAUGE, PRIME COATED STEEL COMPLETE WITH HINGES AND FRAMES TO GIVE ACCESS TO BOXES AND CONDUCTOR JOINTS AND OTHER SIMILAR ELECTRICAL WORK WHICH MAY NEED MAINTENANCE OR REPAIR, BUT WHICH IS CONCEALED IN IN ACCESSIBLE CONSTRUCTION. CONFIRM FINISHES WITH OWNER.

FASTENING AND SECURING HARDWARE

- 1. PROVIDE PROPER FASTENERS AND SIMILAR HARDWARE REQUIRED FOR CONDUIT CONDUCTORS AND FOR EQUIPMENT HANGER AND/OR SUPPORT MATERIAL UNLESS OTHERWISE NOTED. EXPLOSIVE POWER ACTIATED FASTENERS WILL NOT BE PERMITTED UNLESS SPECIFIC WRITTEN APPROVAL FOR US AND TYPE HAS BEEN OBTAINED FROM CONSULTANT. UNDER NO CIRCUMSTANCES US CEILING SUSPENSION HANGERS OR GRDS FOR SUSPENSION OF CONDUIT AND CONDUCTORS.

IDENTIFICATION NAMEPLATES

- 1. FOR EACH PIECE OF ELECTRICAL DISTRIBUTION EQUIPMENT FROM ELECTRICAL SOURCE OF SUPPLY UP TO AND INCLUDING PANELOADS, PROVIDE ENGRAVED LAMACOD IDENTIFICATION NAMEPLATES SECURED TO APPARATUS WITH.

ELECTRICAL CONNECTIONS FOR MECHANICALS, OWNER'S ETC., EQUIPMENT

- 1. PROVIDE REQUIRED ELECTRICAL CONNECTIONS TO APPARATUS SUPPLIED BY DIVISION 15, OWNER AND AS PART OF OTHER DIVISIONS. DO REQUIRED ELECTRICAL WORK FOR EQUIPMENT SCHEDULED ON DRAWINGS. DIVISION 15 WILL SUPPLY STARTERS FOR MOTORIZED APPARATUS SUPPLIED BY THEM AND WILL PROVIDE LAMACOD IDENTIFICATION THROUGHOUT.
2. BE RESPONSIBLE FOR:
2.1 COMPLETE INSTALLATION AND CONNECTION OF STARTERS AND PROVIDE "LINE" AND "LOAD" POWER CONNECTIONS AND INTERLOCKING AS REQUIRED.
2.2 PROVIDE MOTOR STARTER PANELS CONSISTING OF NO. 14 GAUGE STEEL

- BOLTED PANELS SIZED TO ACCOMMODATE STARTERS AS REQUIRED AND SUITABLE SPLITTER.
2.3 UNLESS OTHERWISE NOTED OR SHOWN ON DRAWINGS, MOUNT 1-PHASE STARTERS ADJACENT TO EQUIPMENT THEY SERVE AND CONNECT COMPLETE.
2.4 CO-ORDINATE FEEDER ENTRIES TO STARTERS AND STARTER ASSEMBLIES WITH DIVISION 15.
2.5 PROVIDE ADDITIONAL DISCONNECT SWITCHES (COMPLETE WITH IDENTIFICATION DETAILED ON DRAWINGS, REQUIRED BY CODE, OR FOR APPARATUS WHICH CANNOT BE SEEN FROM ITS STARTER OR IS IN EXCESS OF 30' (9M) FROM IT STARTER).
2.6 DO INTERLOCK WIRING INDICATED ON DRAWINGS AND /OR SCHEDULES.
2.7 CONNECT REQUIRED CIRCUITS TO MOTOR STARTER PANELS SO AS TO BALANCE ACTUAL LOADS (WATTAGE).

GENERAL ELECTRICAL WORK TESTING

- 1. IN ADDITION TO TESTS REQUIRED BY GOVERNING AUTHORITIES AND REGULATIONS, TEST WORK TO ENSURE THERE ARE NO LEAKS, GROUNDS OR CROSSES. ENSURE DEVICES ARE COMMISSIONED AND OPERABLE. CONNECT CIRCUITS TO PANEL BOARDS SO AS TO BALANCE ACTUAL LOADS (WATTAGE) WITHIN 5% IF REQUIRED TRANSPOSE CIRCUITS WHEN WORK IS COMPLETE TO MEET THIS REQUIREMENT.

EXISTING FIRE ALARM SYSTEM WORK

- 1. WHERE SHOWN ON DRAWINGS, DISCONNECT, RELOCATE AND RECONNECT REQUIRED DEVICES. NEW WORK TO BE AN EXTENSION OF EXISTING SYSTEM. PROVIDE ADDITIONAL DEVICES WHERE SHOWN, CONDUCTORS IN CONDUIT AND END-OF-LINE RESISTORS. PROVIDE ULC LISTED DEVICES TO MATCH EXISTING DEVICES AND BE COMPLETELY COMPATIBLE WITH EXISTING SYSTEM. PERFORM WORK IN ACCORDANCE WITH LATEST EDITION OF CAN/ULC-524. SEQUENCE OF OPERATION OF NEW WORK TO FUNCTION AS EXISTING SYSTEM. UNLESS OTHERWISE NOTED, CONNECT ADDITIONAL DEVICES TO EXISTING ZONES SERVING AREA AND PROVIDE WIRING OF MINIMUM NO. 16 AWG IN CONDUIT AND AS PER ELECTRICAL SAFETY AUTHORITY CODE REQUIREMENTS. ALARM RECEIVING CIRCUITS SHALL BE RUN IN SEPARATE CONDUITS FORM ALARM SIGNALING CIRCUITS.
2. DURING WORK TO THE EXISTING FIRE ALARM SYSTEM THE TIME AND DURATION OF INTERRUPTION SHALL BE APPROVED BY THE OWNER AND ONLY 1 ZONE SHALL BE INTERRUPTED AT ANY 1 TIME. IN ALL AREAS WHERE THE RENOVATION WORK REQUIRES SHUTDOWN OF ANY PART OF THE FIRE ALARM PROTECTION SYSTEM, PROVIDE MANUAL FIRE ALARM PROTECTION (FIRE WARDEN BY MEANS OF SUPERVISING THE AREA AS APPROVED BY GOVERNING AUTHORITIES. AT NO TIME SHALL THE FIRE ALARM SYSTEM OR ANY 1 ZONE BE LEFT INOPERATIVE OVERNIGHT PROVIDE ALL REQUIRED BYPASS WIRING AND TEMPORARY WIRING AS MAY BE REQUIRED TO MAINTAIN ALL PARTS OF THE FIRE ALARM SYSTEM OPERATIVE DURING CONSTRUCTION AND ALTERATIONS.
3. COVER EXISTING DETECTORS TO PROTECT FROM DEMOLITION & CONSTRUCTION DUST REMOVE COVERS WHEN ALTERNATIVE FIRE ALARM PROTECTION IN AREA IS NOT AVAILABLE OVERNIGHT.
4. WHEN FIRE ALARM SYSTEM WORK IS COMPLETE AND READY FOR ACCEPTANCE PROVIDE AND ARRANGE OFR INDEPENDENT TESTING COMPANY SUCH AS BROZS AND ASSOCIATES, LEBER/RUES RANDALL BROWN AND ASSOCIATES OR DETRON SAFETY CONSULTANTS IF APPROVED BY OWNER- EXISTING FIRE ALARM MAINTENANCE CONTRACTOR TO INSPECT, TEST AND CERTIFY EQUIPMENT INCLUDING INITIATING DEVICES, SIGNALING DEVICES, CONTROL DEVICES AND WIRING. PROVIDE CERTIFICATE OF LIABILITY INSURANCE REGISTERED FOR THIS PROJECT TO SHOW SATISFACTORY PROOF OF MANUFACTURERS AND TESTING COMPANY'S LIABILITY COVERAGE FOR BOTH HIS PRODUCT AND PERSONNEL. CONDUCT WORK IN ACCORDANCE WITH LATEST EDITION OF CAN/ULC-5536 AND 5537. TESTS TO BE CONDUCTED IN PRESENCE OF OWNER AND/OR CONSULTANT.

CODES AND STANDARDS:

- 1. DO COMPLETE INSTALLATION IN ACCORDANCE WITH C.S.A. C22.1 EXCEPT WHERE SPECIFIED OTHERWISE.
1.2 COMPLY WITH C.S.A. ELECTRICAL BULLETINS IN FORCE AT TIME OF TENDER SUBMISSION, WHILE NOT IDENTIFIED AND SPECIFIED BY NUMBER IN THIS DIVISION, ARE TO BE CONSIDERED AS FORMING PART OF RELATED C.S.A. PART B STANDARD.
1.3 DO OVERHEAD AND UNDERGROUND SYSTEMS IN ACCORDANCE WITH C.S.A. C22.3 NO. 1 EXCEPT WHERE SPECIFIED OTHERWISE.
1.4 ABBREVIATIONS FOR ELECTRICAL TERMS, TO C.S.A. 285.
1.5 COMPLY ALSO WITH THE FOLLOWING CODES:
.1 ONTARIO ELECTRICAL SAFETY CODE
.2 NATIONAL BUILDING CODE
.4 ONTARIO BUILDING CODE
2. ELECTRICAL CONTRACTOR TO PAY FEES FOR ESA INSPECTIONS AND SUBMIT ESA CERTIFICATE AT THE COMPLETION OF WORK.

The Contractor shall verify all dimensions prior to commencement of the work. All print and specifications are the property of the Architect and must be returned upon completion of the work.

ISSUE OR REVISION

No.	Description	Date
1	ISSUED FOR REVIEW	MAR 07 2025
2	ISSUED FOR TENDER	MAR 17 2025
3		
4		
5		
6		

PROJECT: ASSUMPTION CATHOLIC SECONDARY SCHOOL, GN. WR. RENO. 3230 WOODWARD AVE, BURLINGTON, ONTARIO, L7N 3P1 HALTON CATHOLIC DISTRICT SCHOOL BOARD

PROFESSIONAL SEAL:



DWG TITLE: ELECTRICAL SPECIFICATIONS



REGAL CONSULTING ENGINEERS INC. CONSULTING MECHANICAL & ELECTRICAL ENGINEERS 208 Wyeecroft Road, Suite 200, Claxton, ON L6K 3S3 PHONE: (905)844-9113 www.regal-eng.com

DATE: MAR 2025

SCALE: N.T.S.

DRAWN BY: AS

CHECKED BY: MA

DWG STATUS: TENDER

PROJECT No.: 2025-480

DRAWING No.: E4.0 REVISION