

Renovations at Ecole Elementaire Felix-Leclerc

50 Celestine Drive
Toronto, Ontario

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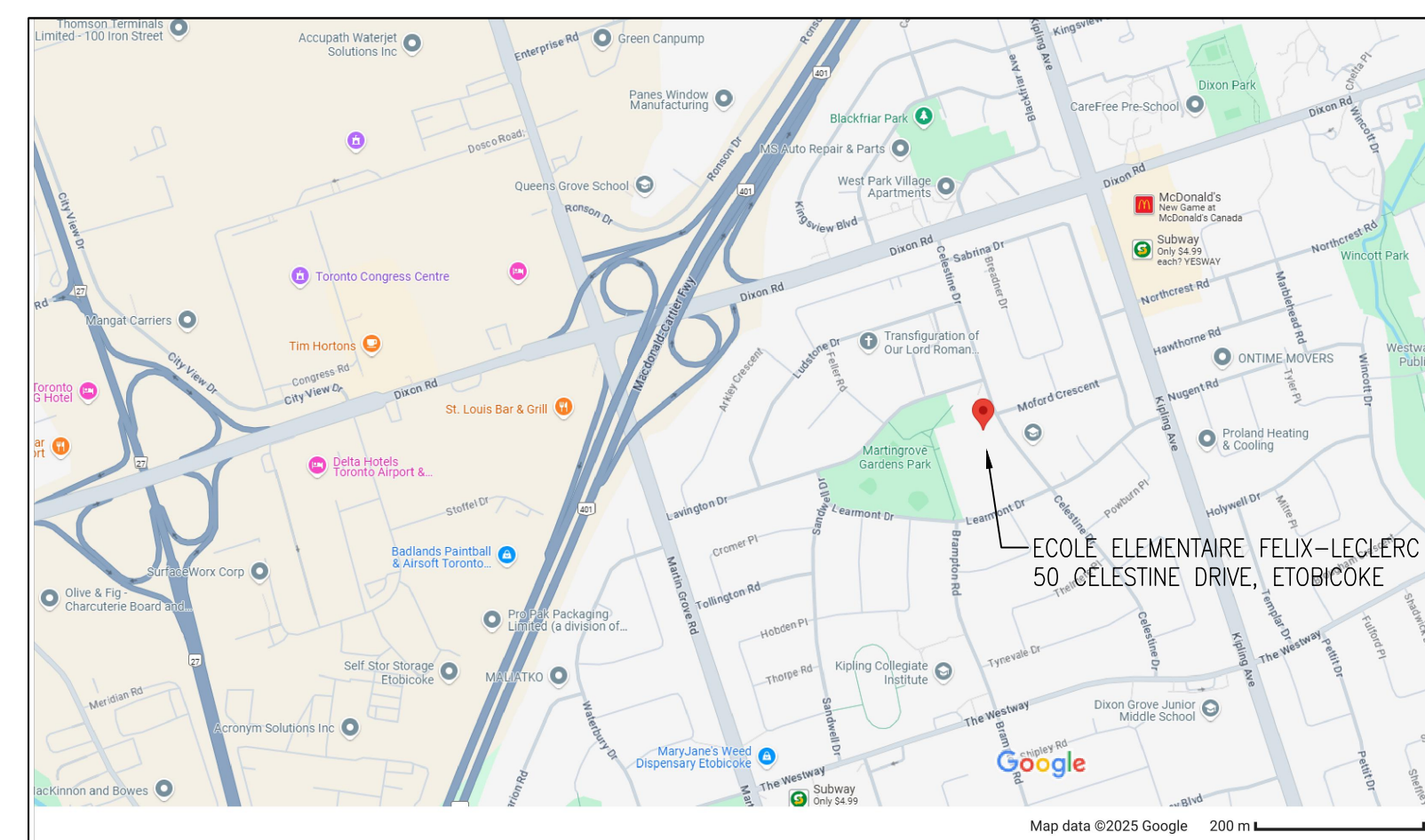
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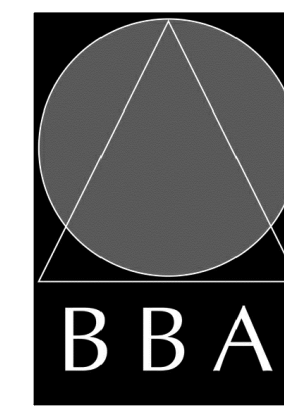
- C-1.1 COMMUNICATIONS LEGEND AND DETAILS
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1 LOCATION PLAN
A000 N.T.S.

CONSULTANTS

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NAME OF CONSULTANT: BARRY BRYAN ASSOCIATES CERTIFICATE OF PRACTICE NUMBER: 5192 250 WATER STREET, SUITE 201 WHITBY, ONTARIO, CANADA, L1N 0G5 TEL: (905) 666-5252 (Toronto) (905) 427-4495 FAX: (905) 666-5256		OBC Reference	
NAME OF PROJECT: RENOVATIONS AT ECOLE ELEMENTAIRE FELIX-LECLERC			
LOCATION OF PROJECT: 50 CELESTINE DRIVE, ON			
DATE: FEBRUARY 2025			
Ontario Building Code Data Matrix Part 11 - Renovation of Existing Building			
11.00 Building Code Version: O. Reg. 163/24	Last Amendment: O. Reg. 447/24		
11.01 Project Type: <input type="checkbox"/> Addition <input type="checkbox"/> Change of use <input checked="" type="checkbox"/> Renovation <input type="checkbox"/> Addition and Renovation	Description RENOVATIONS AT ECOLE ELEMENTAIRE FELIX-LECLERC	[A] 1.3.3.3B	
11.02 Major Occupancy Classification: Occupancy Group: A, DIV. 2 Use: ELEMENTARY SCHOOL		3.1.2.1, (1), 2.1.4.1, (1) 10.1.1.2, and 11.2.1.	
11.03 Superimposed Major Occupancies: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Description	11.2, 3.2.2.5 to 3.2.2.8 and 2.2.1	
11.04 Building Area (m ²): Description: EXISTING FIRST FLOOR	Existing: 3342 New: _____ Total: 3342	[A] 1.4.1.2, 11.2 and 11.3	
11.05 Building Height: 1 (one) Storeys above grade 0 (zero) Storeys below grade	(m) Above grade	[A] 1.4.1.2, 3.2.1.1, 2.2.2.2 and 11.3	
11.06 Number of streets/ fire fighter access:	1 (one) street(s) Existing	3.2.2.10, 3.2.5, 2.2.4.1 and 11.3	
11.07 Building Size: <input type="checkbox"/> Small <input type="checkbox"/> Medium <input checked="" type="checkbox"/> Large <input type="checkbox"/> > Large		11.2.1.1 and T.11.2.1.1.B-N	
11.08 Existing Building Classification: Change in Major Occupancy: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> Not Applicable (no change of major occupancy)	Construction Index: _____ Hazard Index: _____ Importance Category: <input type="checkbox"/> Low <input checked="" type="checkbox"/> Normal <input type="checkbox"/> High <input type="checkbox"/> Post-disaster	10.1.1.2, 11.2.1.1 T11.2.1.1A T11.2.1.1B to N, 4.1.2.1(3), 2.3.1.8 5.2.2.1(2)	
11.09 Renovation Type: <input checked="" type="checkbox"/> Basic Renovation <input type="checkbox"/> Extensive Renovation		11.3.3.1 & 11.3.3.2	
11.10 Occupant Load: Floor Level/Area Occupancy Type Based On Use Occup. Load (persons) No change		3.1.1.7, 2.1.2.2 and 11.4.2.2	
11.11 Plumbing Fixture Requirements: Ratio: Male/Female = 50/50 Except as noted otherwise		3.7.4, 11.3.4, 11.3.5, 11.4.2.4 & 11.4.2.5	
11.15 Plumbing Fixture Requirements: cont. Floor level/Area (Repeated) B.F. WCs Required B.F. WCs Provided Universal Washrooms Required Universal Washrooms Provided		Tables 3.8.2.3.A and 3.8.2.3.B	
11.12 Barrier-free Design: Barrier-free Entrances: Number ONE	Explanation	11.3.1.2, 11.3.2, 11.3.3.2	
11.13 Reduction in Performance Level: Structural By increase in occupant load: By change of major occupancy: Plumbing Storage - system: Extension of buildings of combustible construction:	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Structural By increase in occupant load: By change of major occupancy: Plumbing Storage - system: Extension of buildings of Combustible Construction:	11.4.2.1 11.4.2.2 11.4.2.3 11.4.2.4 11.4.2.5 11.4.2.6 11.4.2.7	
11.15 Compliance Alternatives Proposed:	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	11.5.1	
11.16 Alternative Solutions:		[A] 1.2.1.1 and (C) 2.1	
11.17 Notes:	- SCHOOL PREDATES CURRENT BUILDING CODE. - SCHOOL IS NOT SPRINKLERED. - ORIGINAL SCHOOL CONSTRUCTED CIRCA 1959		

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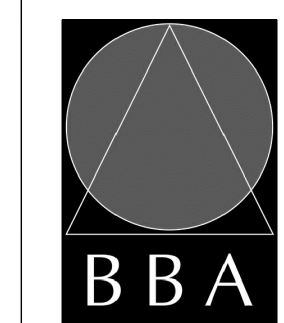
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50 CELESTINE DRIVE
TORONTO, ON

DRAWING:

OBC MATRIX, DRAWING LIST AND LOCATION PLAN



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CM

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DATE:
FEB. 2025

SCALE:
AS NOTED

FILE:

PROJECT NO:

24194

DRAWING NO:

A000

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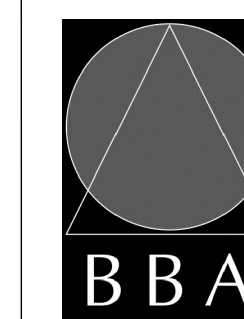
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PROJECT:
**RENOVATIONS AT
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FELIX-LECLERC**

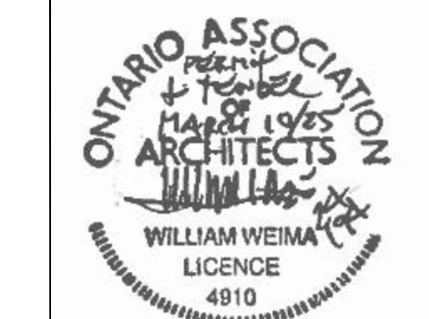
50 CELESTINE DRIVE
TORONTO, ON

DRAWING:
OVERALL FLOOR PLANS



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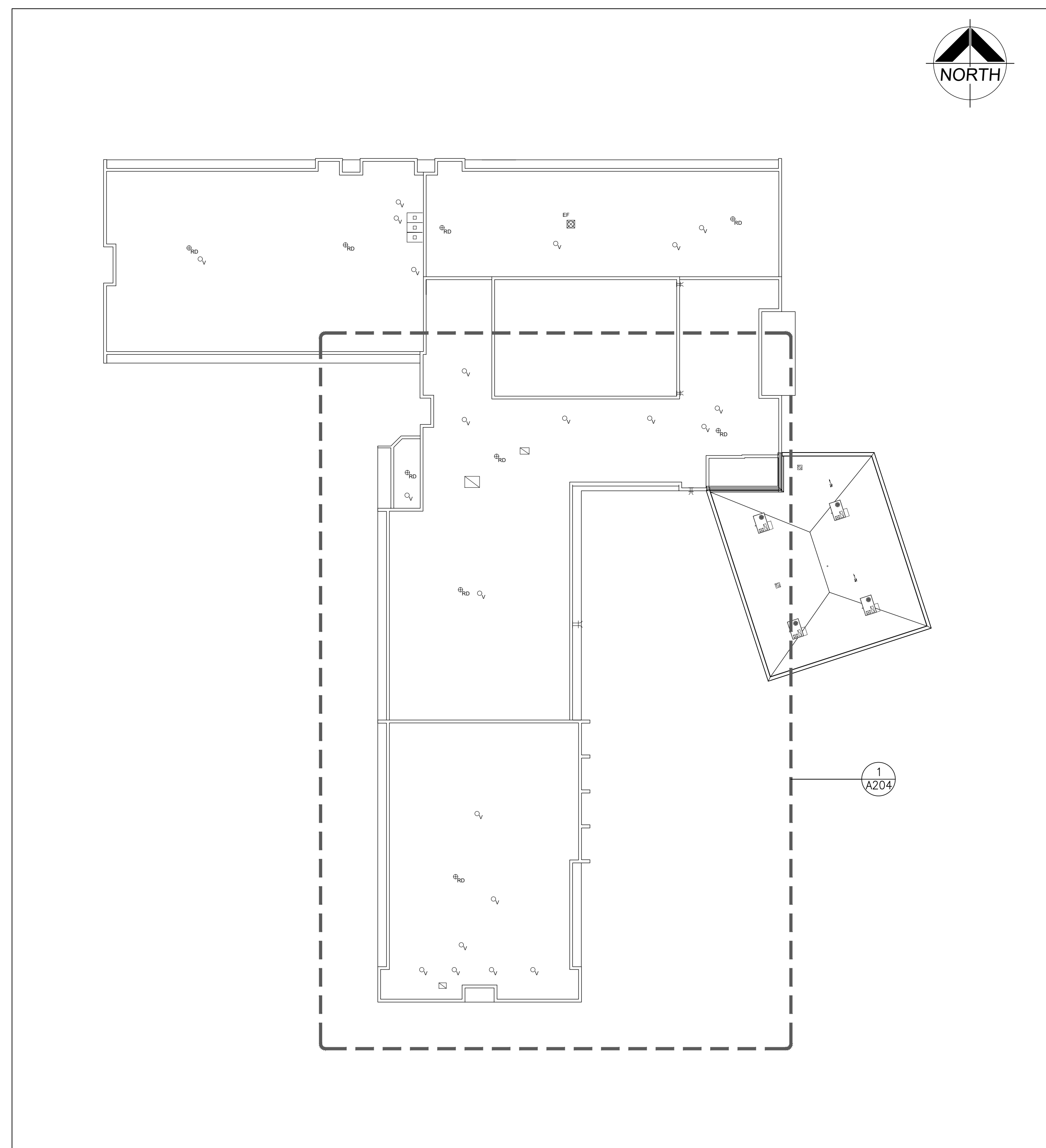
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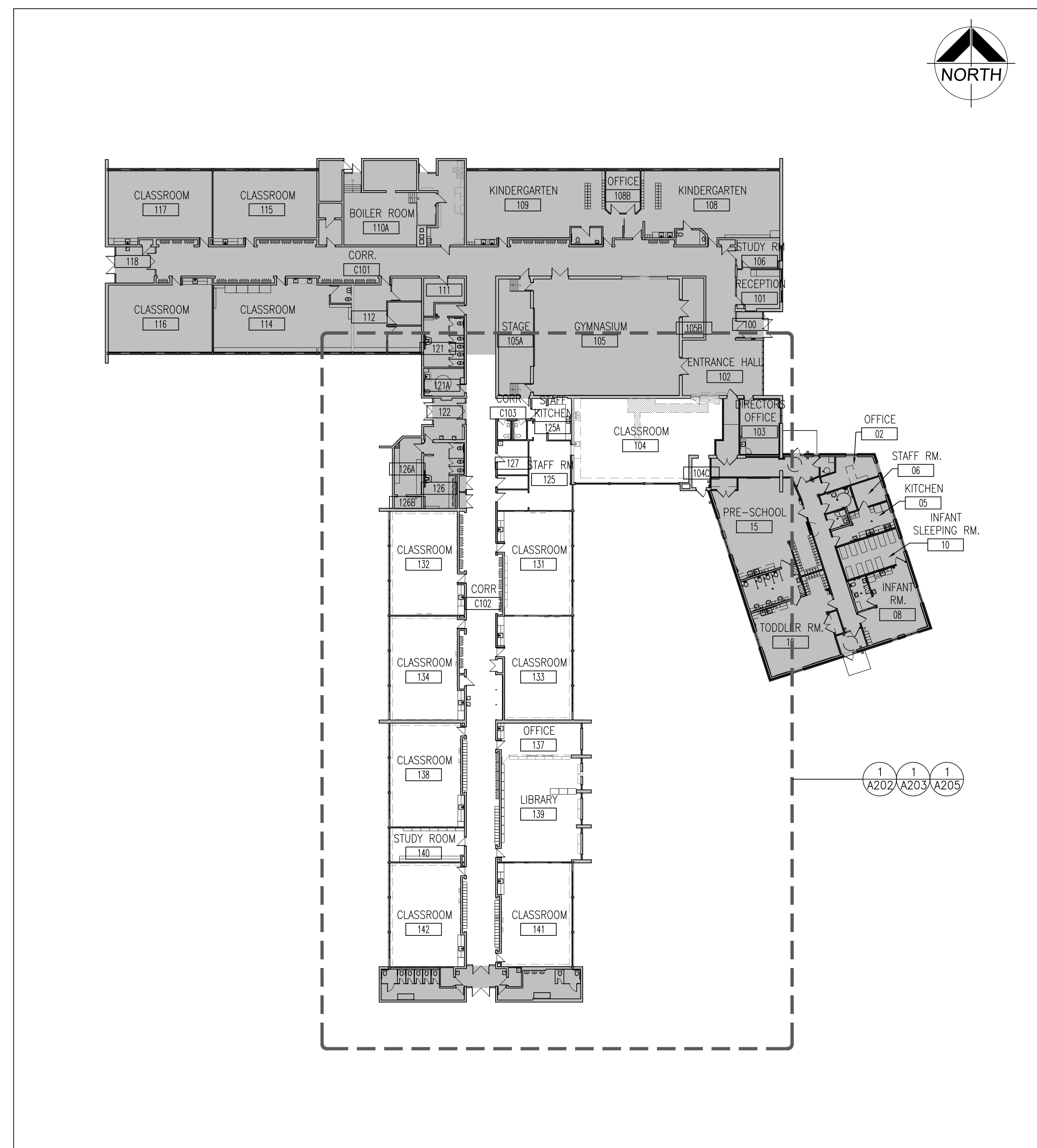
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PROJECT NO:
24194

DRAWING NO:
A201



2
A201 OVERALL ROOF PLAN
1:300



1
A201 OVERALL GROUND FLOOR PLAN
1:300

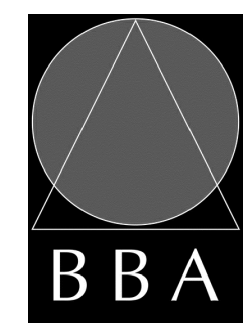
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PROJECT:
**RENOVATIONS AT
ECOLE ELEMENTAIRE
FELIX-LECLERC**
50 CELESTINE DRIVE
TORONTO, ON

DRAWING:
**PART DEMOLITION
FLOOR PLAN**



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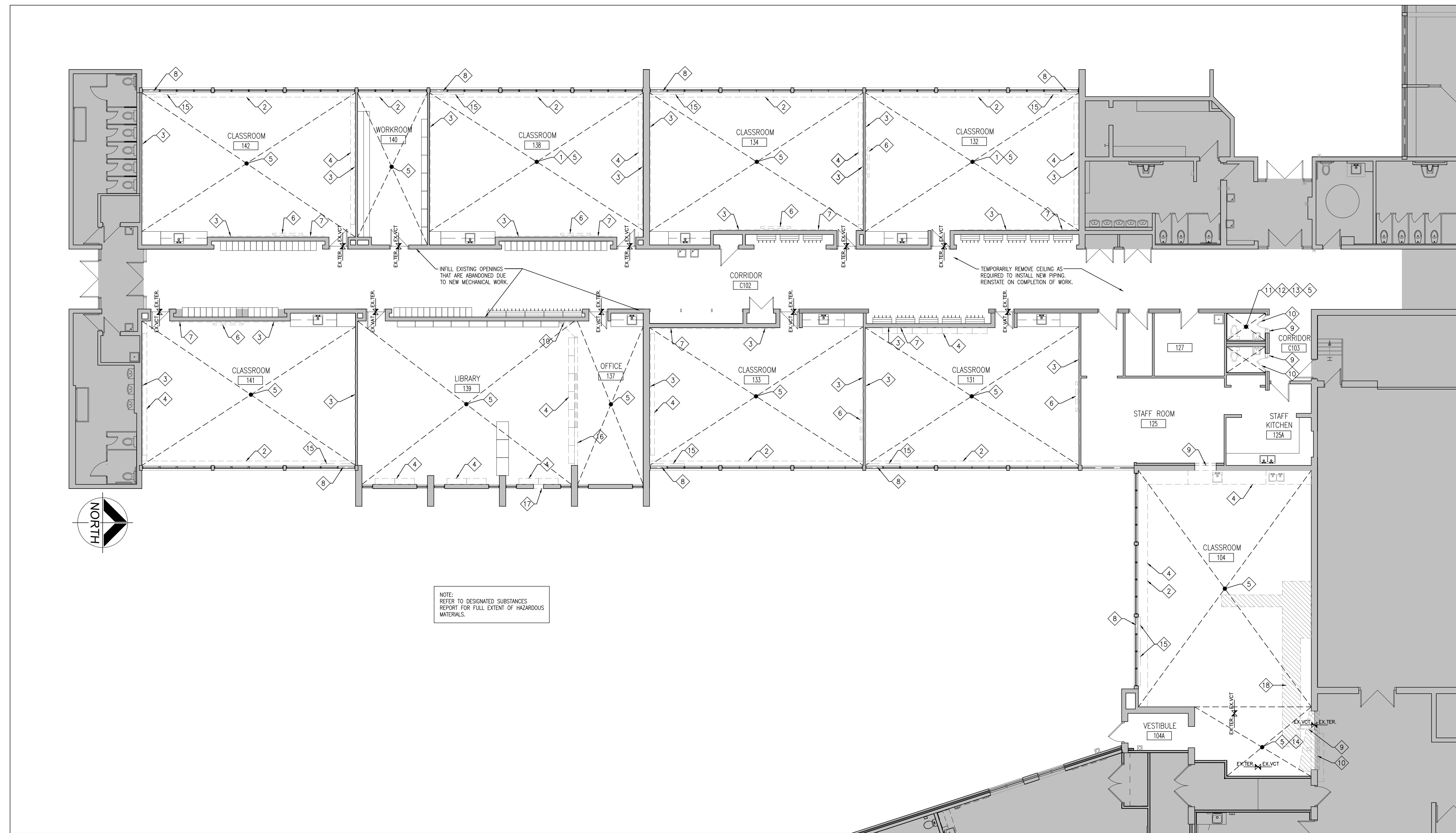
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PROJECT NO: **24194** DRAWING NO: **A202**



1 PART GROUND FLOOR DEMOLITION PLAN
A202 1:100

TYPICAL DEMOLITION NOTES	DEMOLITION LEGEND	DEMOLITION NOTES
<ol style="list-style-type: none"> 1. SITE VERIFY ALL DIMENSIONS AND CONDITIONS. REPORT DISCREPANCIES TO THE CONSULTANTS. 2. ALL WORK TO BE IN ACCORDANCE WITH THE ONTARIO BUILDING CODE. 3. COMPLY WITH THE OCCUPATIONAL HEALTH AND SAFETY ACT REGULATIONS FOR CONSTRUCTION PROJECTS. 4. PROVIDE PROTECTION IN LOCATIONS APPROVED BY THE OWNER AND CONSULTANT SO AS NOT TO DAMAGE EXISTING STRUCTURE, LANDSCAPE OR PART THEREOF. 5. COMPLETE ALL DEMOLITION WORK NECESSARY TO COMPLETE THE RENOVATIONS AS SHOWN AND AS REQUIRED. DEMOLITION OF BUILDING ELEMENTS INCLUDES BUT NOT LIMITED TO COMPLETE REMOVAL OF ALL ASSOCIATED FIXTURES, FITTINGS, HARDWARE, FASTENERS, EQUIPMENT AND ACCESSORIES UNLESS NOTED OTHERWISE. 6. ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL DEMOLITION DRAWINGS ARE COMPLEMENTARY AND SHALL BE READ TOGETHER. 7. PROVIDE ALL SHORING AS REQUIRED. SHORING SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER. 8. NOTIFY CONSULTANT OF LOAD BEARING MEMBERS OR ASSEMBLIES IDENTIFIED OR DISCOVERED DURING WORK AND NOT INDICATED ON DRAWINGS. DO NOT PROCEED WITH REMOVALS WITHOUT PRIOR REVIEW BY THE CONSULTANT. 9. PROVIDE TEMPORARY SUPPORT OF PIPES, DUCTS AND ELECTRICAL CHASES AS REQUIRED FOR SAFE REMOVAL. EXISTING AND PROPOSED SUPPORTS ARE TO BE REVIEWED BY THE CONSULTANT PRIOR TO THE REMOVAL OF ANY COMPONENTS WHICH MAY FALL OR CAUSE OTHERS TO FALL. 10. MAINTAIN ALL WORK AREAS AND ALL STORAGE AREAS CLEAN AND ORDERLY AT ALL TIMES INCLUDING EXISTING AREAS THAT REMAIN IN OPERATION DURING CONSTRUCTION. DUST CONTROL MEASURES ARE TO BE IN PLACE AT ALL TIMES AND NOISY WORK SHALL BE COORDINATED AROUND PROGRAM EVENTS. 11. REMOVAL OF EXISTING FLOOR FINISHES IS TO INCLUDE COMPLETE REMOVAL OF BASE AND ALL MORTAR AND ADHESIVES AND PREPARATION OF EXISTING SUBSTRATES TO RECEIVE NEW FLOORING, SATISFACTORY TO THE MANUFACTURER OF NEW FLOOR FINISHES. ALLOW FOR EXCESSIVE LEVELING OF SLABS. 12. DEMOLITION INCLUDES ALL ASSOCIATED MECHANICAL AND ELECTRICAL SERVICES, EQUIPMENT, FITTINGS, FIXTURES, HANGERS, BRACKETS, TRIM AND ACCESSORIES AS REQUIRED TO COMPLETE THE WORK. 13. SAWCUT, BREAK OUT AND MAKE GOOD (MATCH EXISTING U.N.O.) ALL EXISTING FLOOR SLABS WHERE REQUIRED TO INSTALL NEW UNDERGROUND PLUMBING AND OTHER BURIED SERVICES AS INDICATED AND AS REQUIRED ON MECHANICAL AND ELECTRICAL DRAWINGS. 14. REMOVAL OF DOORS AND FRAMES IS TO INCLUDE REMOVAL OF ALL HARDWARE. 15. REMOVE ALL PROTRUSIONS IN FLOOR SLAB AND GRIND DOWN TO FLOOR LEVEL. 16. CLEAN, PATCH / REPAIR ALL EXISTING SURFACES TO REMAIN TO RECEIVE NEW FINISHES. ALLOW FOR REMOVAL OR SCARIFICATION OF EXISTING PAINT FINISH ON WALLS THAT ARE TO RECEIVE NEW WALL TILE FINISH. REMOVE ALL MORTAR, ADHESIVES AND RUST AS REQUIRED TO PREPARE EXISTING SUBSTRATES TO RECEIVE NEW PAINT FINISHES. 17. DISCONNECT AND CAP OFF ALL SERVICES PRIOR TO DEMOLITION. 18. DISPOSE OF MATERIALS OFF SITE. 19. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE EXISTING STRUCTURE OR FINISHES SHOWN TO REMAIN AND REPAIR /REPLACE SAME TO THE SATISFACTION OF THE OWNER AND CONSULTANT. 20. BUILDING TO BE SECURED BY THE G.C. AT ALL TIMES. 21. REFER TO HAZARDOUS BUILDING MATERIALS ASSESSMENT, FILE #200584.049, DATED NOVEMBER 13, 2019, PREPARED BY PINCHIN. HAZARDOUS REMOVALS SHALL COMPLY WITH CURRENT LEGISLATION. 22. PATCH, REPAIR AND MAKE GOOD ALL EXISTING SURFACES AFFECTED BY MECHANICAL AND ELECTRICAL WORK. 23. MAKE GOOD ALL SURFACES AFFECTED BY THE WORK, INCLUDING BUT NOT LIMITED TO WALL, PATCHING, PAINTING, MILLWORKS, FLOORING AND CEILING. 	<p>DEMOLITION LEGEND</p> <ul style="list-style-type: none"> EXISTING WALL, PARTITION OR COLUMN DENOTES DEMOLITION OF BUILDING ELEMENT EXISTING DOOR, FRAME AND TRIM TO REMAIN EXISTING DOOR, FRAME AND TRIM TO BE CAREFULLY REMOVED AND DISPOSED OF. 	<p>DEMOLITION NOTES</p> <ul style="list-style-type: none"> 1 REMOVE AND DISPOSE OF EXISTING VCT FLOORING. PATCH, REPAIR AND MAKE GOOD EXISTING SLAB FOR NEW FINISHES. 2 REMOVE AND DISPOSE OF EXISTING WALL FIN RADIATOR & SHELF IN IT'S ENTIRETY. 3 REMOVE AND DISPOSE OF EXISTING BLACK BOARDS AND TACK BOARDS. PATCH, REPAIR AND MAKE GOOD EXISTING SURFACES FOR NEW FINISHES. 4 REMOVE AND DISPOSE OF EXISTING MILLWORK. PATCH, REPAIR & MAKE GOOD EXISTING SURFACES. 5 REMOVE EXISTING CEILING MOUNTED LIGHTS AND DEVICES. PATCH, REPAIR & MAKE GOOD ALL SURFACES AS REQUIRED FOR NEW FINISHES. 6 REMOVE EXISTING TELEVISION AND TURN OVER TO SCHOOL FOR STORAGE. TELEVISIONS TO BE REINSTALLED AT NEW LOCATIONS. 7 TEMPORARILY REMOVE EXISTING SPEAKER AND CLOCK AS REQUIRED FOR TACK BOARD REMOVAL. REINSTALL AFTER TACK BOARDS ARE REMOVED. 8 REMOVE EXISTING GLAZED PANE AND PREPARE EXISTING FRAME FOR INSTALLATION OF ALUMINUM PANEL. 9 SAWCUT AND BREAKOUT MASONRY OPENING TO EXTENT SHOWN. PATCH, REPAIR & MAKE GOOD ALL SURFACES. 10 REMOVE EXISTING DOOR AND FRAME. 11 REMOVE AND DISPOSE OF EXISTING PLUMBING FIXTURES. CAP SERVICES AND PREPARE FOR INSTALLATION OF NEW FIXTURES. 12 REMOVE & DISPOSE OF EXISTING CERAMIC TILE FLOORING. PATCH, REPAIR & MAKE GOOD ALL SURFACES AS REQUIRED FOR NEW FINISHES. 13 REMOVE AND DISPOSE OF EXISTING GYPSUM BOARD CEILING. PATCH, REPAIR & MAKE GOOD ALL SURFACED FOR NEW FINISHES. 14 REMOVE AND DISPOSE OF EXISTING T-BAR CEILING AND ACOUSTIC PANELS. 15 REMOVE & DISPOSE OF EXISTING ROLLER SHADES AS REQUIRED TO COMPLETE NEW WORK. 16 REMOVE EXISTING WALL IN IT'S ENTIRETY. PATCH, REPAIR AND MAKE GOOD EXISTING SURFACES. 17 SAWCUT & BREAKOUT OPENING IN EXISTING BLOCK / BRICK WALL AS REQUIRED FOR INSTALLATION OF NEW UNIT VENTILATOR AND LOUVRE. SHORE WALL AS REQUIRED AND INSTALL NEW LINTEL. 18 SAWCUT & BREAKOUT EXISTING CONCRETE SLAB AS REQUIRED TO COMPLETE PLUMBING WORK. INFILL SLAB ON COMPLETION OF WORK. REFER TO TYPICAL SLAB INFILL DETAIL.

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TORONTO, ON

DRAWING:
PART FLOOR PLAN



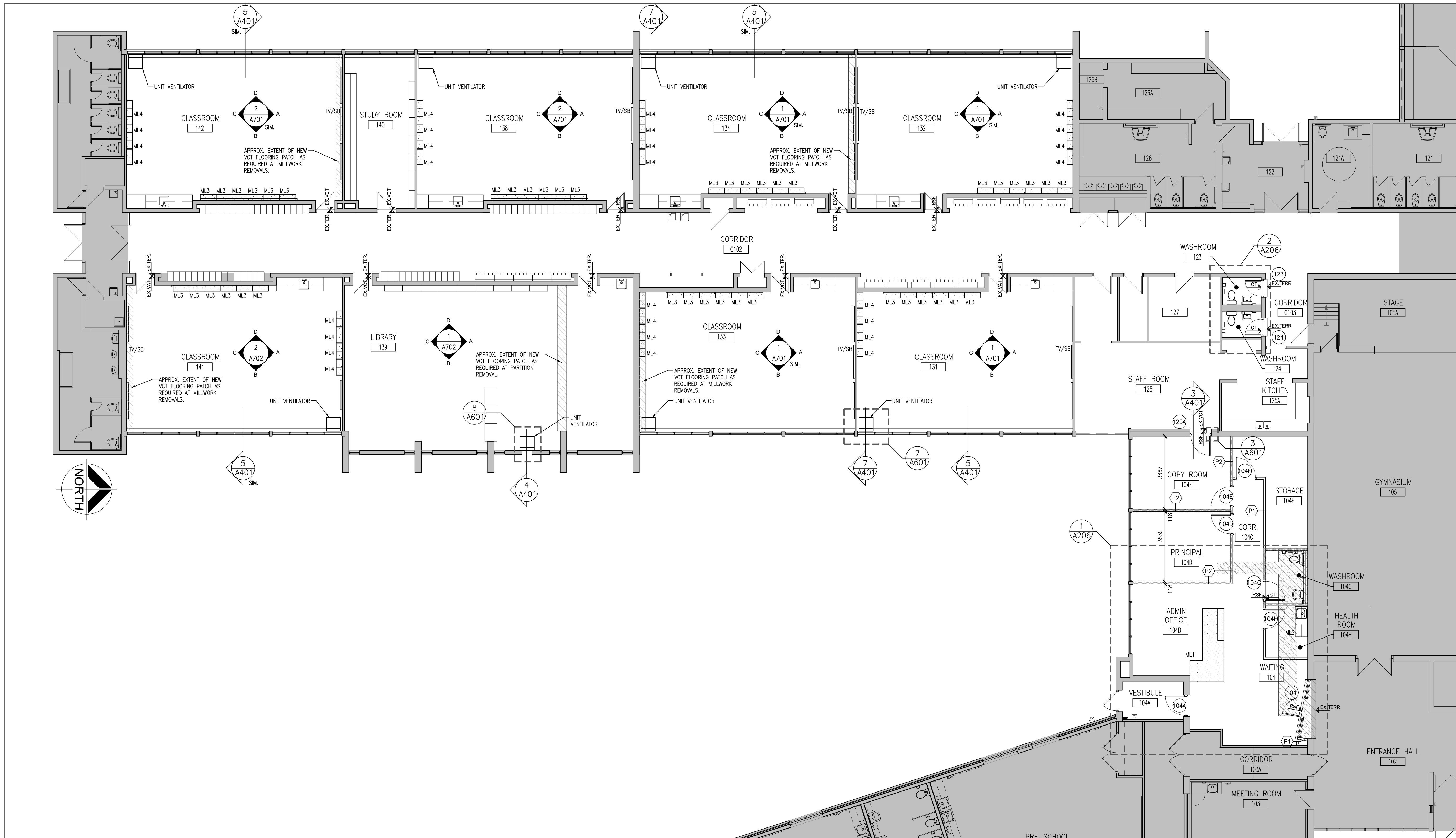
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DESIGN BY: WW
DRAWN BY: CM
CHECKED BY: []

DATE: DEC. 2024
SCALE: 1:100
FILE:

PROJECT NO: **24194**
DRAWING NO: **A203**



1 PART GROUND FLOOR PLAN
A203 1:100

PARTITION TYPE SCHEDULE	
	P1 13mm GYPSUM BOARD 92mm STEEL STUDS @ 400mm O.C. 13mm GYPSUM BOARD
	P2 13mm GYPSUM BOARD 92mm STEEL STUDS @ 400mm O.C. C/W 89 SOUND ATTENUATION BATTS BETWEEN 13mm GYPSUM BOARD
	EXISTING WALL TO REMAIN

FURRING TYPES SCHEDULE	
	F1 13mm GYPSUM BOARD ON 92mm STEEL STUDS @ 400mm O.C. (MOISTURE RESISTANT GYPSUM BOARD ON WET SIDE)

PARTITION & FURRING NOTES:

- UNLESS OTHERWISE NOTED, ALL PARTITIONS TERMINATE AT UNDERSIDE OF FLOOR OR ROOF STRUCTURE, U.N.O.
- GYPSUM BOARD USED IN WET AREAS SHALL BE MOLD & MOISTURE RESISTANT BOARD.
- ALL GYPSUM BOARD BULKHEADS AND PARTITIONS ABOVE MASONRY WALLS OR GLAZING TO BE BRACED AS REQUIRED (TYP.).
- COORDINATE AND SITE VERIFY DIMENSIONS OF ALL NEW OPENINGS AND DEMOLITION OF EXISTING RIBBED BLOCK WALL. COORDINATE DEMOLITION WITH EXISTING GROUT LINES.
- ALL FULL HEIGHT MASONRY PARTITIONS SHALL BE CONNECTED TO THE U/S OF SECOND FLOOR CONCRETE SLAB WITH CLIP ANGLES AS DETAIL 8/S202.
- ALL ENDS OF TERMINATED EXPOSED MASONRY BLOCK WALLS MUST BE GROUTED SOLID INCLUDING DOORS/ OPENINGS.
- THE GENERAL CONTRACTOR IS RESPONSIBLE FOR INTERFERENCE COORDINATION BETWEEN THE MASONRY SUB TRADE AND MECHANICAL/ ELECTRICAL TRADES. COORDINATION SHALL BE COMPLETE TO NOT DELAY THE CONSTRUCTION SCHEDULE.

FLOOR PLAN NOTATION LEGEND			
	CORRIDOR		ROOM NAME & NUMBER
	INTERIOR PARTITION OR FURRING TYPE		WALL SECTION REFERENCE
	EXTERIOR GLAZING NUMBER		BUILDING SECTION/ EXTERIOR ELEVATION REFERENCE
	INTERIOR GLAZED SCREEN NUMBER		INTERIOR ELEVATION REFERENCE NUMBER
	DOOR NUMBER		WASHROOM ACCESSORIES (REFER TO 2/A802)
	MILLWORK NUMBER		FIRE EXTINGUISHER
	BARRIER FREE DOOR OPERATOR PUSH BUTTON		FIRE EXTINGUISHER CABINET
	PUSH TO LOCK PUSH BUTTON		FLOOR DRAIN
	EMERGENCY ASSISTANCE CALL BUTTON		TRENCH DRAIN
	DOOR WITH DOOR OPERATOR		MILLWORK SURFACE (REFER TO DETAILS FOR FINISHES)
			FLOOR FINISH TYPE (SEE ALSO ROOM FINISH SCHEDULE)

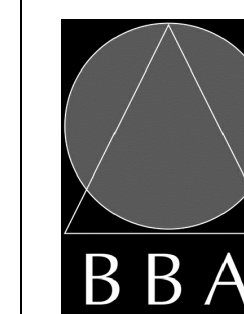
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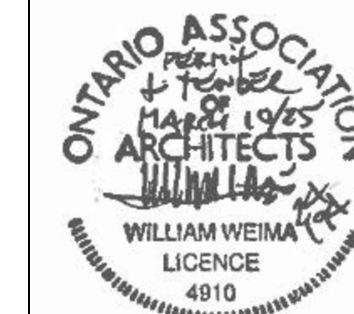
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PROJECT:
**RENOVATIONS AT
ECOLE ELEMENTAIRE
FELIX-LECLERC**
50 CELESTINE DRIVE
TORONTO, ON

DRAWING:
PART ROOF PLAN



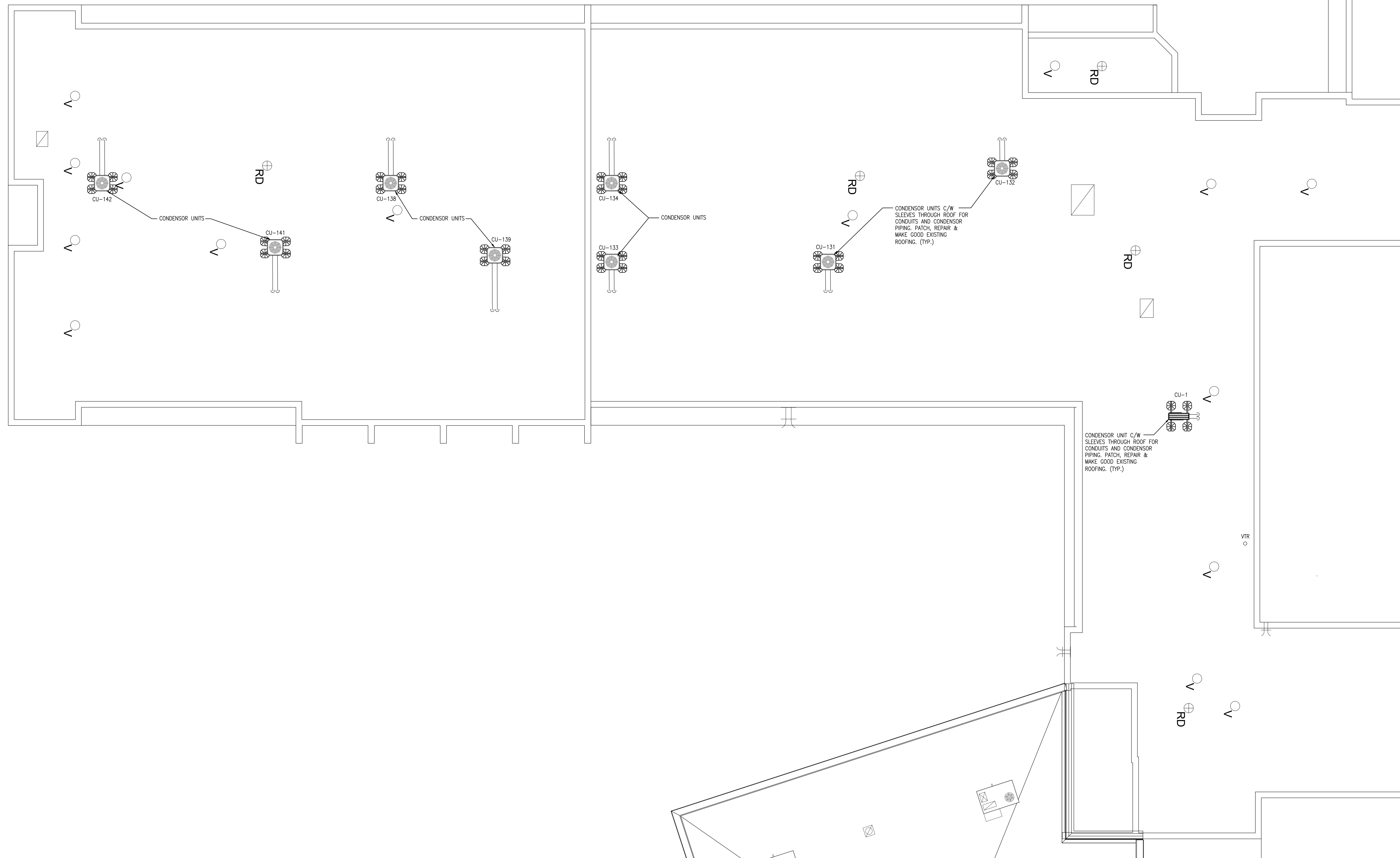
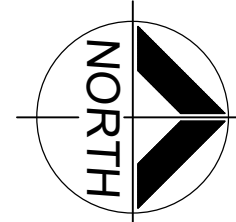
**BARRY BRYAN
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Fax: (905) 666-5256
e-mail: bba@bba-archeng.com



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DRAWN BY: LQ/CM	% COMPLETE:
CHECKED BY:	INITIAL:
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FILE:	

PROJECT NO:
24194

DRAWING NO:
A204



1
PART ROOF PLAN
A203
1:100

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PROJECT:
**RENOVATIONS AT
ECOLE ELEMENTAIRE
FELIX-LECLERC**
50 CELESTINE DRIVE
TORONTO, ON

DRAWING:
**PART REFLECTED
CEILING PLAN**



**BARRY BRYAN
ASSOCIATES**

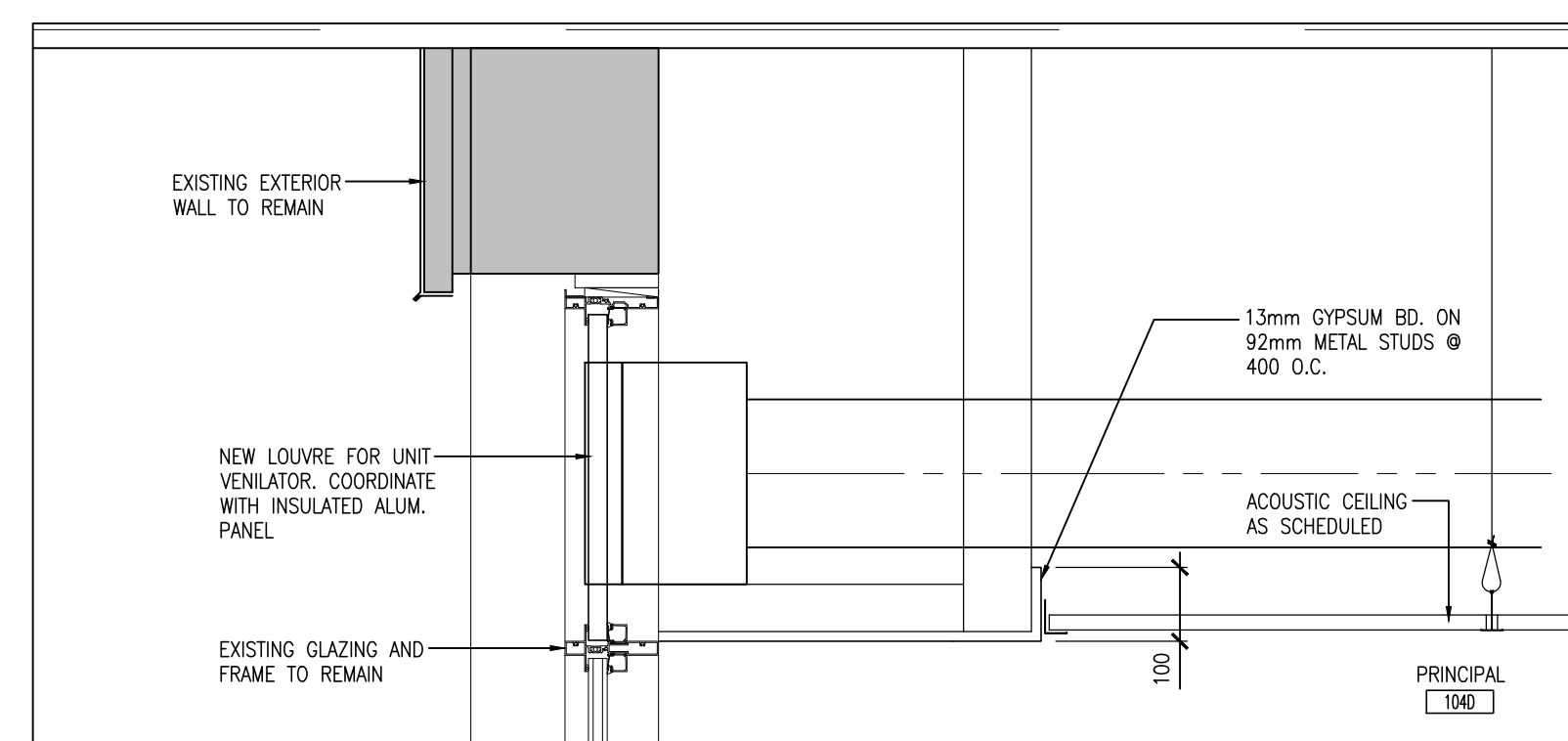
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FILE:

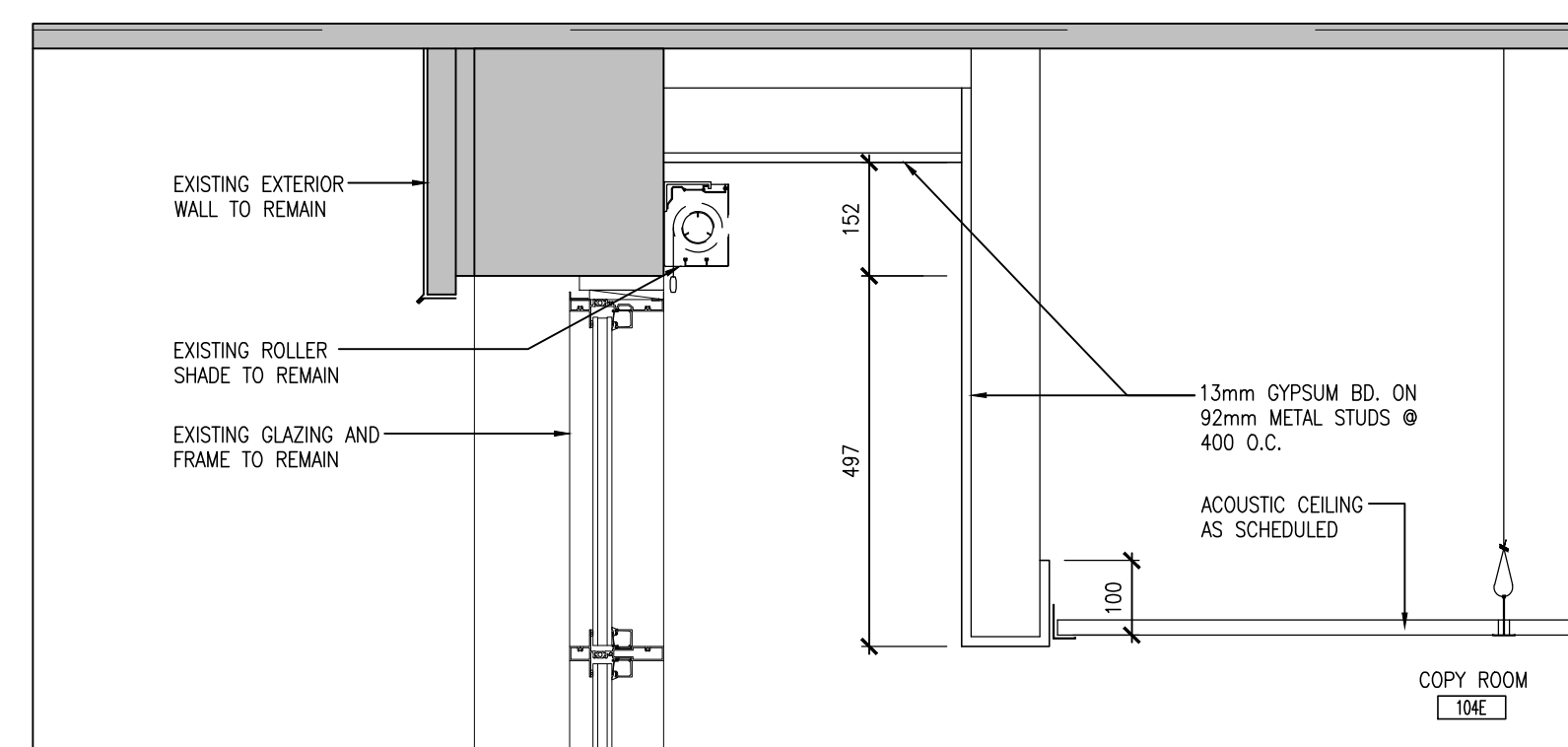
PROJECT NO:
24194
DRAWING NO:
A205



1
A205 PART GROUND FLOOR REFLECTED CEILING PLAN
1:100



3
A205 BULKHEAD SECTION
1:10

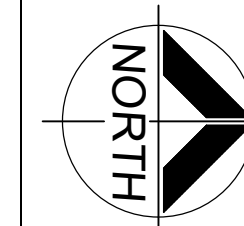


2
A205 BULKHEAD SECTION
1:10

CEILING TYPE SCHEDULE		CEILING NOTATION LEGEND	
(C1)	610mmx1220mm ACOUSTIC LAY-IN CEILING PANELS IN SUSPENDED T-BAR GRID (TYPE 1)	(C#)	CEILING TYPE (REFER TO CEILING TYPE SCHEDULE AND ROOM FINISH SCHEDULE)
(C2)	GYPSUM BOARD CEILING (PAINTED)	(2400)	CEILING LEVEL ABOVE FINISHED FLOOR (SEE ALSO ROOM FINISH SCHEDULE)
		[Symbol]	610mmx1220mm RECESSED LIGHT FIXTURE
		[Symbol]	610mmx610mm RECESSED LIGHT FIXTURE
		[Symbol]	305mmx1220mm RECESSED LIGHT FIXTURE
		[Symbol]	RECESSED POT LIGHTS
		[Symbol]	SUPPLY AIR DIFFUSER (REFER TO MECHANICAL DRAWINGS)
		[Symbol]	RETURN AIR GRILLE (REFER TO MECHANICAL DRAWINGS)

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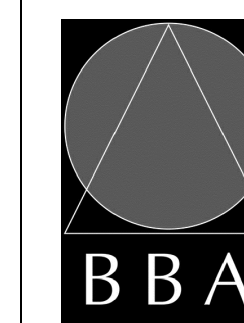
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PROJECT:
**RENOVATIONS AT
ECOLE ELEMENTAIRE
FELIX-LECLERC**
50 CELESTINE DRIVE
TORONTO, ON

DRAWING:
PART FLOOR PLANS



**BARRY BRYAN
ASSOCIATES**
Architects
Engineers
Project Managers

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CHECKED BY:

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1:50 U.N.O.

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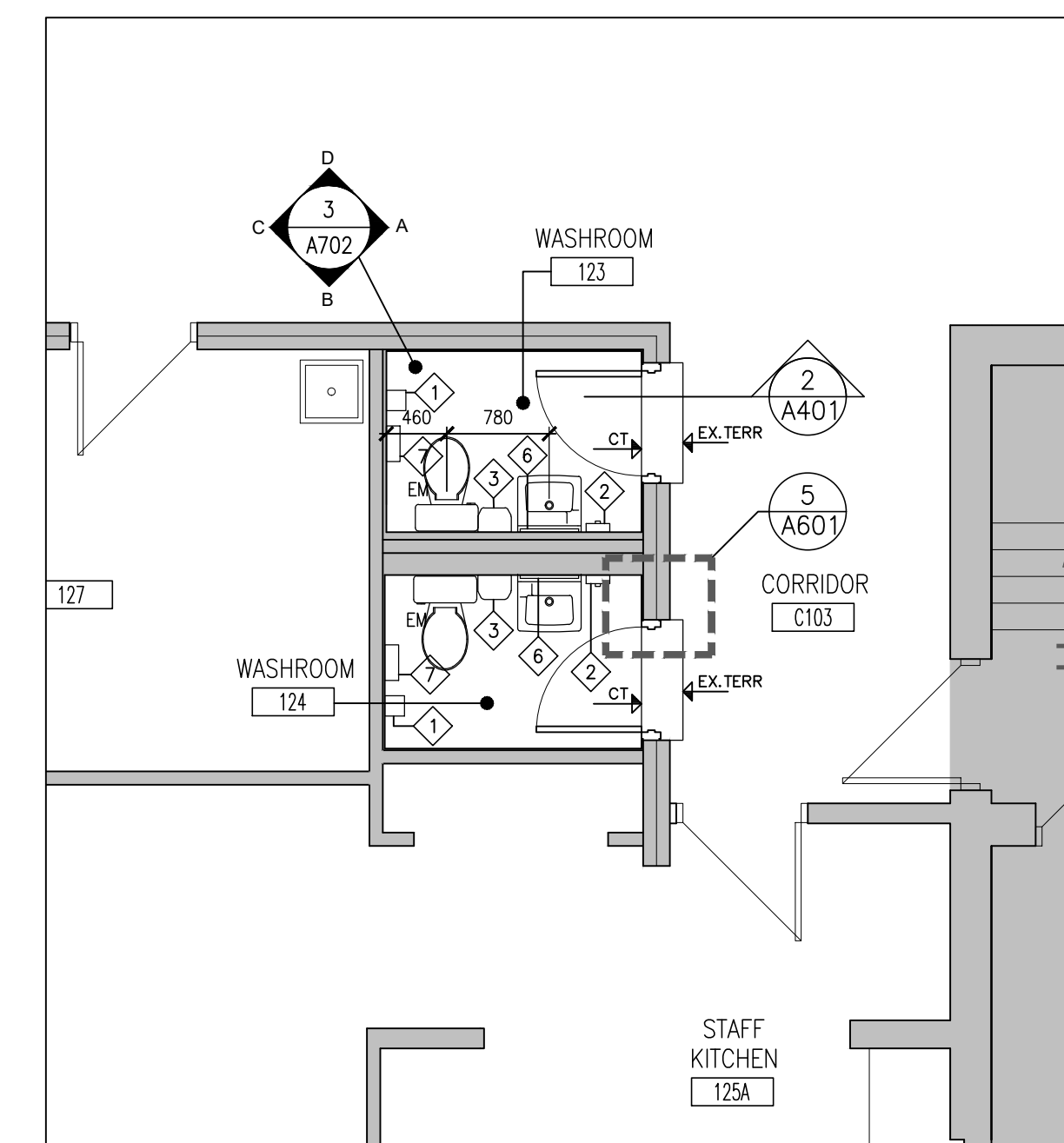
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PROJECT NO:

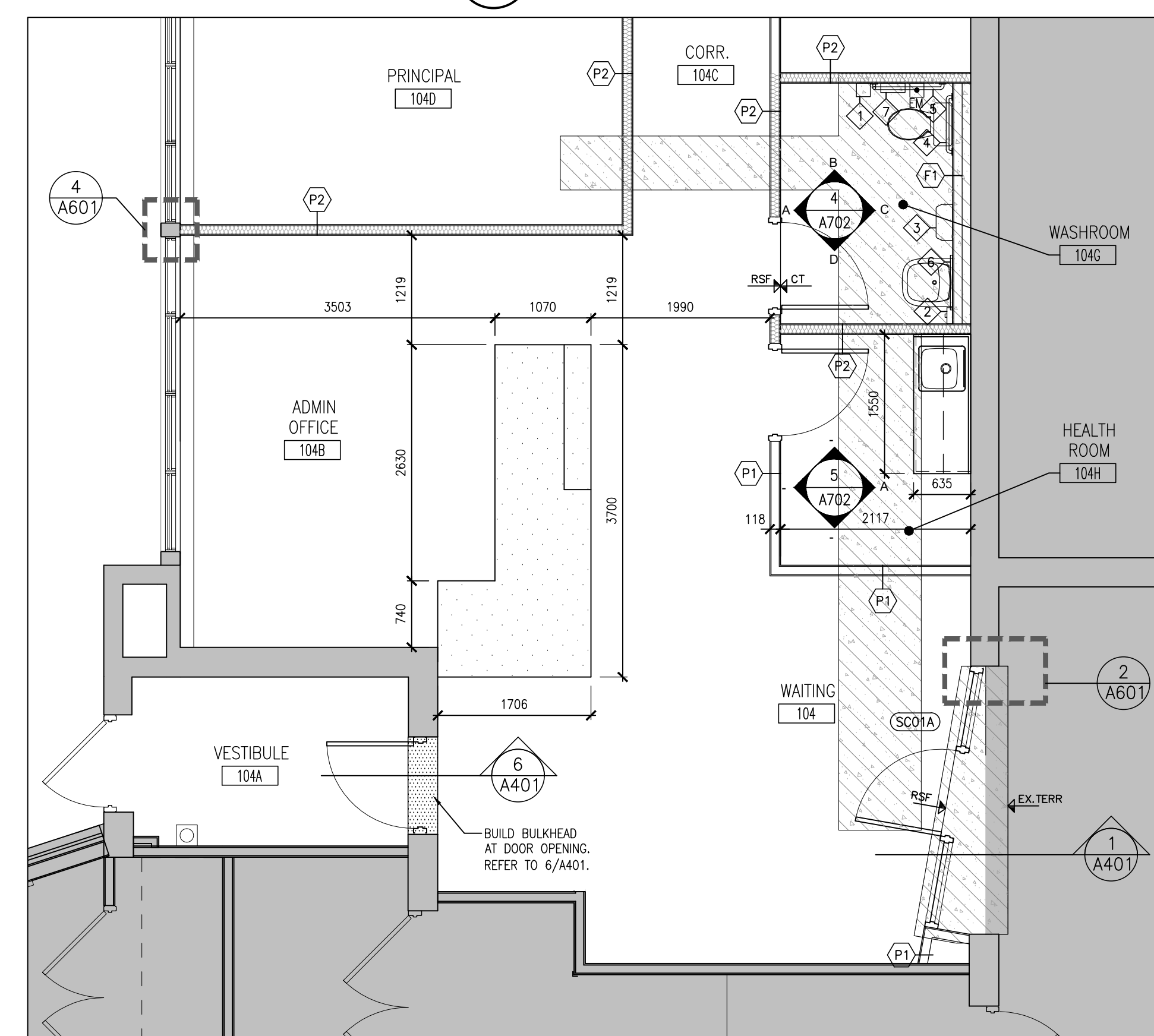
24194

DRAWING NO:

A206



2 PART GROUND FLOOR PLAN
1:50



1 PART GROUND FLOOR PLAN
1:50

PARTITION TYPE SCHEDULE

- P1 13mm GYPSUM BOARD
92mm STEEL STUDS @ 400mm O.C.
13mm GYPSUM BOARD
- P2 13mm GYPSUM BOARD
92mm STEEL STUDS @ 400mm O.C.
C/W 89 SOUND ATTENUATION BATTS
BETWEEN 13mm GYPSUM BOARD
- EXISTING WALL TO REMAIN

FURRING TYPES SCHEDULE

- F1 13mm GYPSUM BOARD ON
92mm STEEL STUDS @ 400mm O.C.
(MOISTURE RESISTANT GYPSUM BOARD
ON WET SIDE)

PARTITION & FURRING NOTES:

- UNLESS OTHERWISE NOTED, ALL PARTITIONS TERMINATE AT UNDERSIDE OF FLOOR OR ROOF STRUCTURE, U.N.O.
- GYPSUM BOARD USED IN WET AREAS SHALL BE MOLD & MOISTURE RESISTANT BOARD.
- ALL GYPSUM BOARD BULKHEADS AND PARTITIONS ABOVE MASONRY WALLS OR GLAZING TO BE BRACED AS REQUIRED (TYP.).
- COORDINATE AND SITE VERIFY DIMENSIONS OF ALL NEW OPENINGS AND DEMOLITION OF EXISTING RIBBED BLOCK WALL. COORDINATE DEMOLITION WITH EXISTING GROUT LINES.
- ALL FULL HEIGHT MASONRY PARTITIONS SHALL BE CONNECTED TO THE U/S OF SECOND FLOOR CONCRETE SLAB WITH CLIP ANGLES AS DETAIL 8/S202.
- ALL ENDS OF TERMINATED EXPOSED MASONRY BLOCK WALLS MUST BE GROUTED SOLID INCLUDING DOORS/ OPENINGS.
- THE GENERAL CONTRACTOR IS RESPONSIBLE FOR INTERFERENCE COORDINATION BETWEEN THE MASONRY SUB TRADE AND MECHANICAL/ ELECTRICAL TRADES. COORDINATION SHALL BE COMPLETE TO NOT DELAY THE CONSTRUCTION SCHEDULE.

FLOOR PLAN NOTATION LEGEND

- | | | | | | |
|-----------------|--|--|---|--------|---------------------------|
| CORRIDOR | ROOM NAME & NUMBER | | WASHROOM ACCESSORIES
(REFER TO 2/A802) | F.R.R. | FIRE RESISTANCE RATING |
| | INTERIOR PARTITION OR FURRING TYPE | | WALL SECTION REFERENCE | | FIRE EXTINGUISHER |
| | EXTERIOR GLAZING NUMBER | | BUILDING SECTION/ EXTERIOR ELEVATION REFERENCE | | FIRE EXTINGUISHER CABINET |
| | INTERIOR GLAZED SCREEN NUMBER | | BUILDING SECTION/ EXTERIOR ELEVATION REFERENCE | FD | FLOOR DRAIN |
| | DOOR NUMBER | | INTERIOR ELEVATION REFERENCE NUMBER | TD | TRENCH DRAIN |
| | MILLWORK NUMBER | | MILLWORK SURFACE (REFER TO DETAILS FOR FINISHES) | | |
| | BARRIER FREE DOOR OPERATOR PUSH BUTTON | | FLOOR FINISH TYPE (SEE ALSO ROOM FINISH SCHEDULE) | | |
| | PUSH TO LOCK PUSH BUTTON | | | | |
| | EMERGENCY ASSISTANCE CALL BUTTON | | | | |
| | DOOR WITH DOOR OPERATOR | | | | |

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PROJECT:
**RENOVATIONS AT
ECOLE ELEMENTAIRE
FELIX-LECLERC**
50 CELESTINE DRIVE
TORONTO, ON

DRAWING:
WALL SECTIONS



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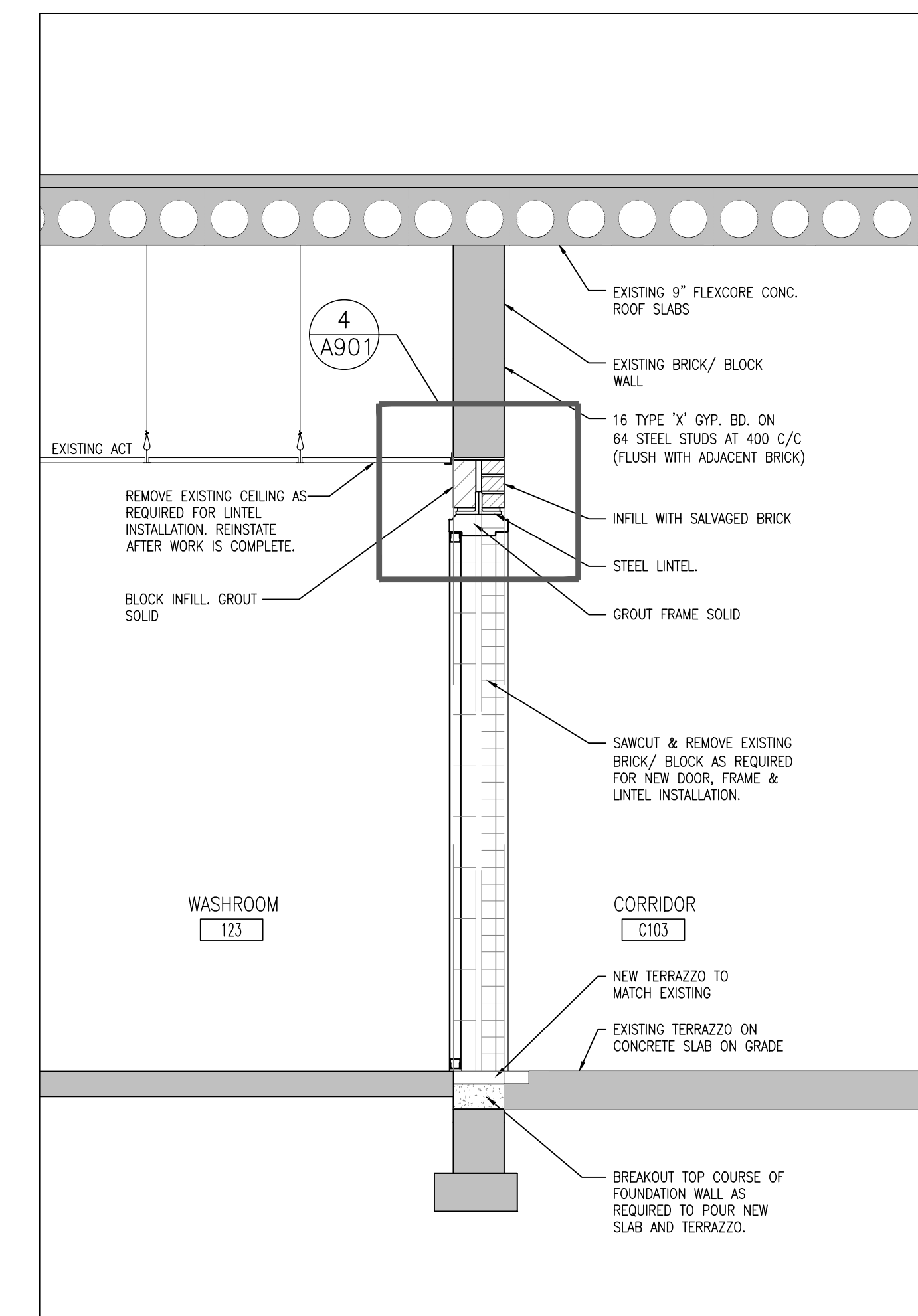
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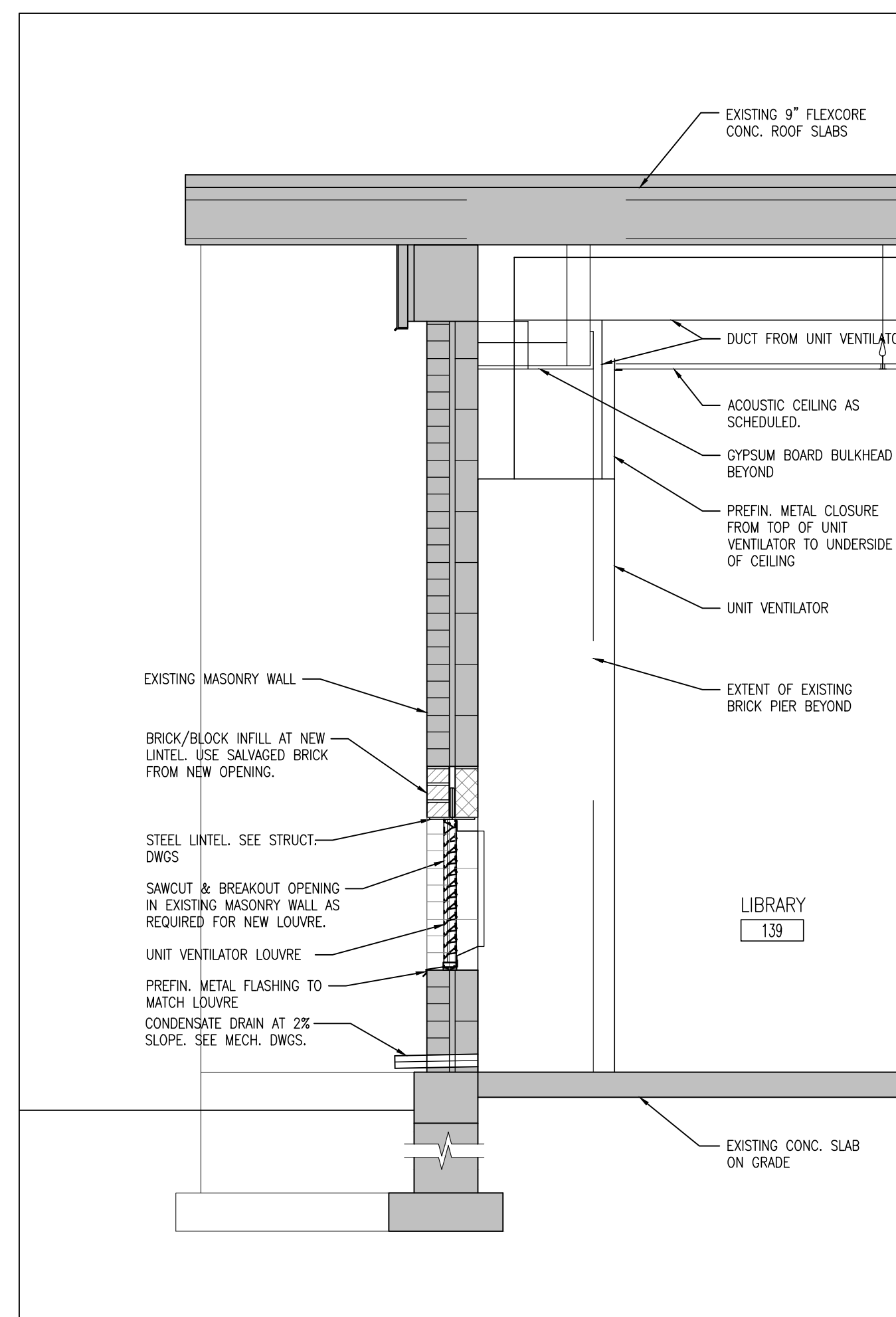
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PROJECT NO:
24194

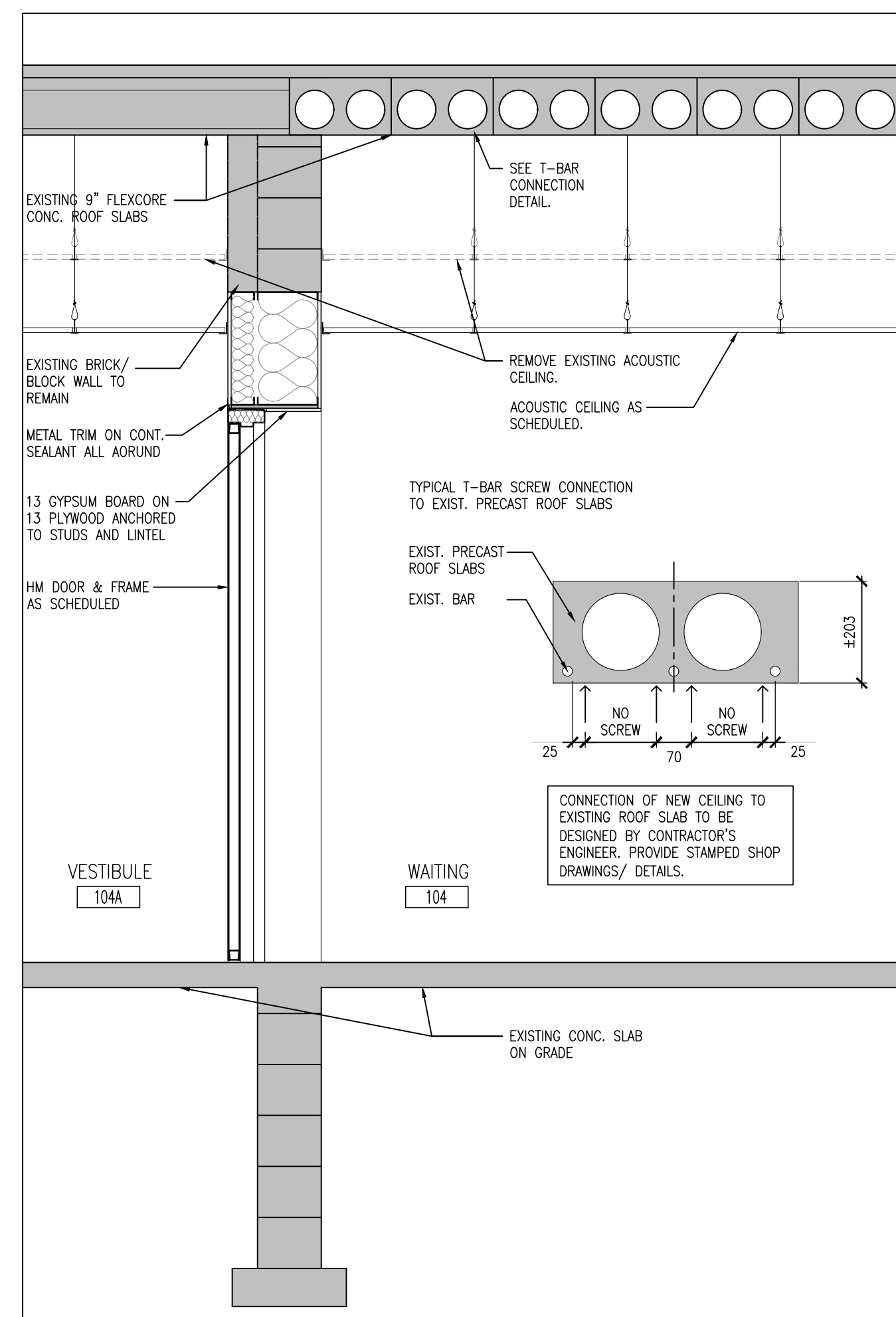
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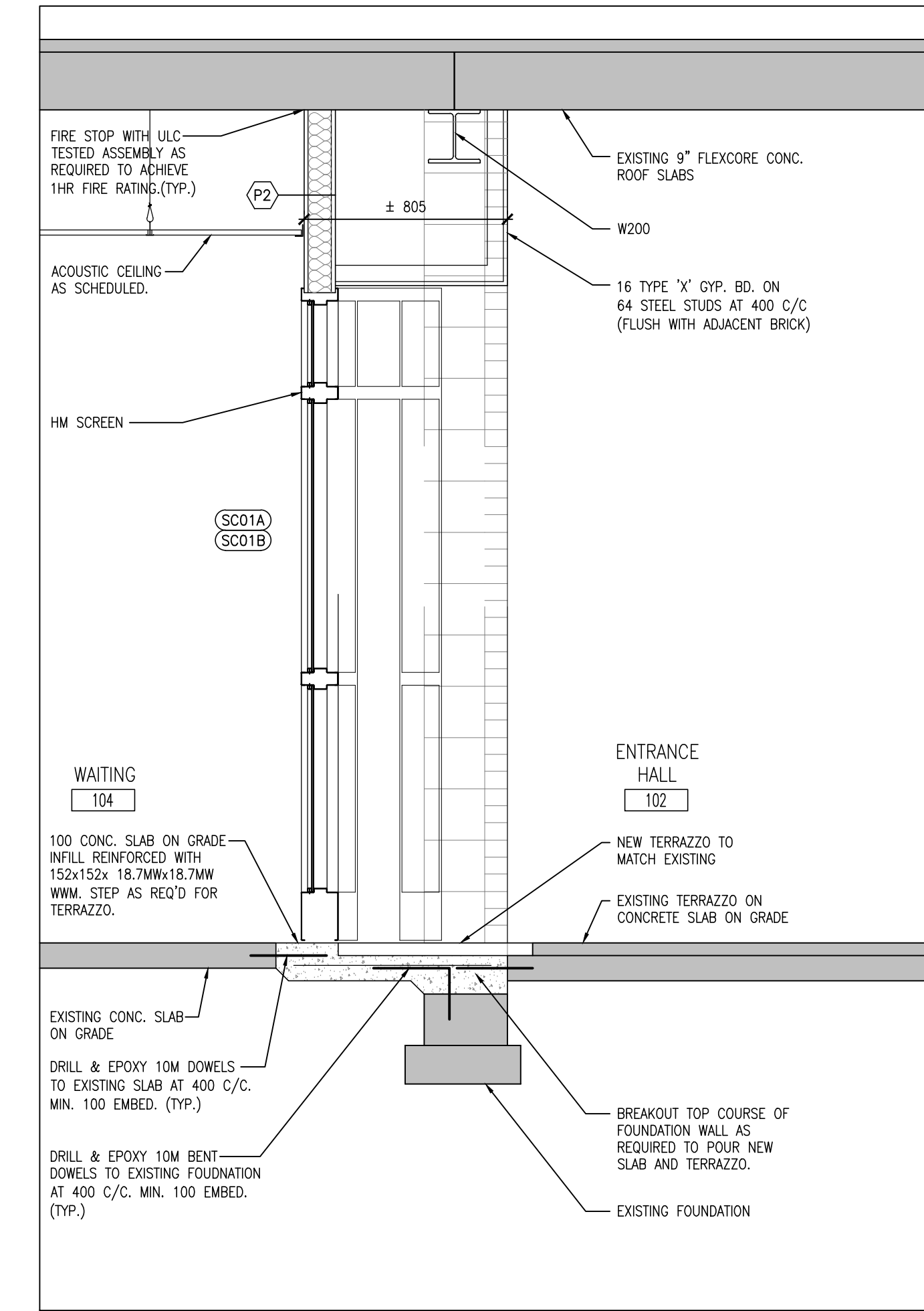
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A401 WALL SECTION AT WASHROOMS
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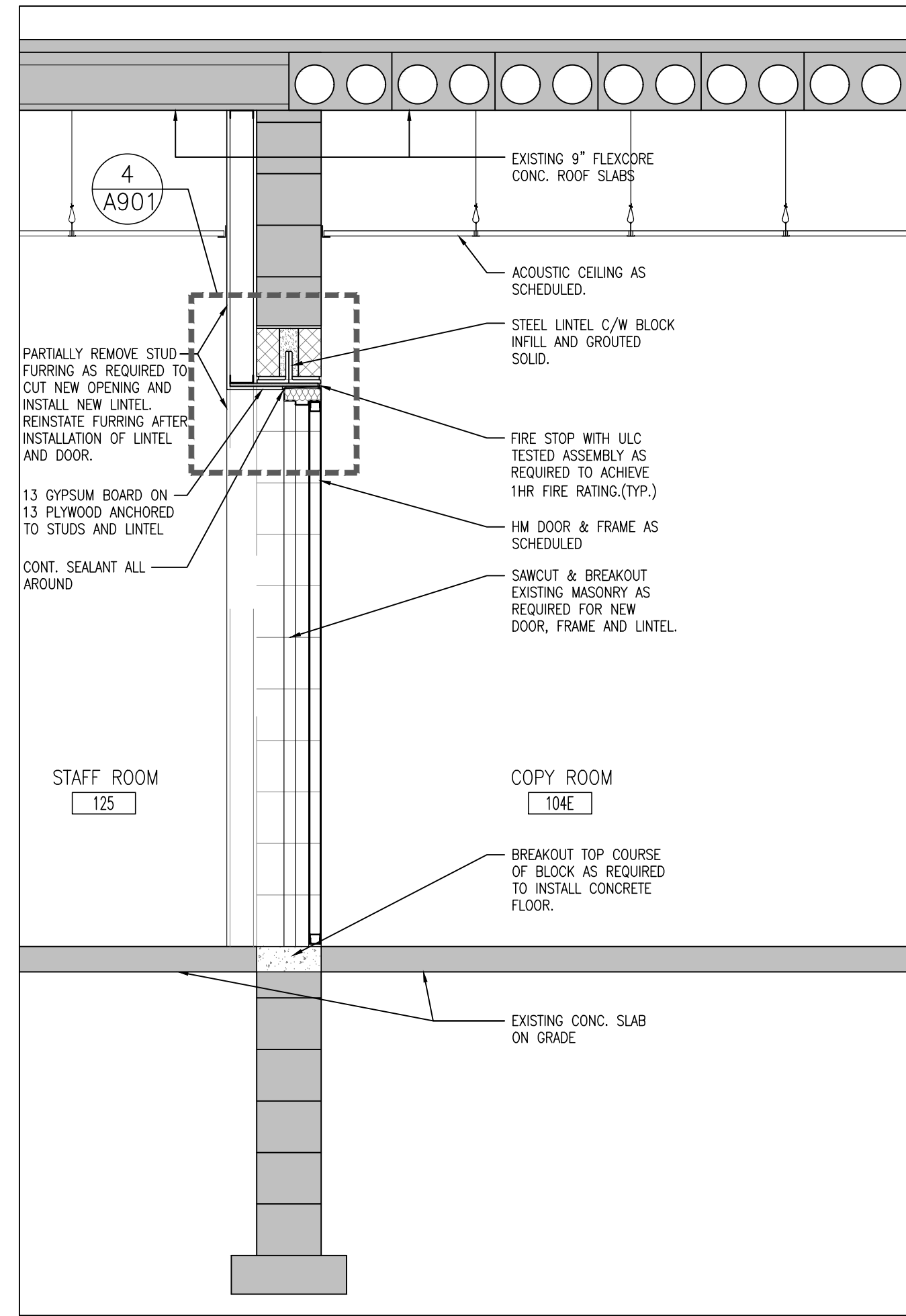
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A401 WALL SECTION AT LIBRARY
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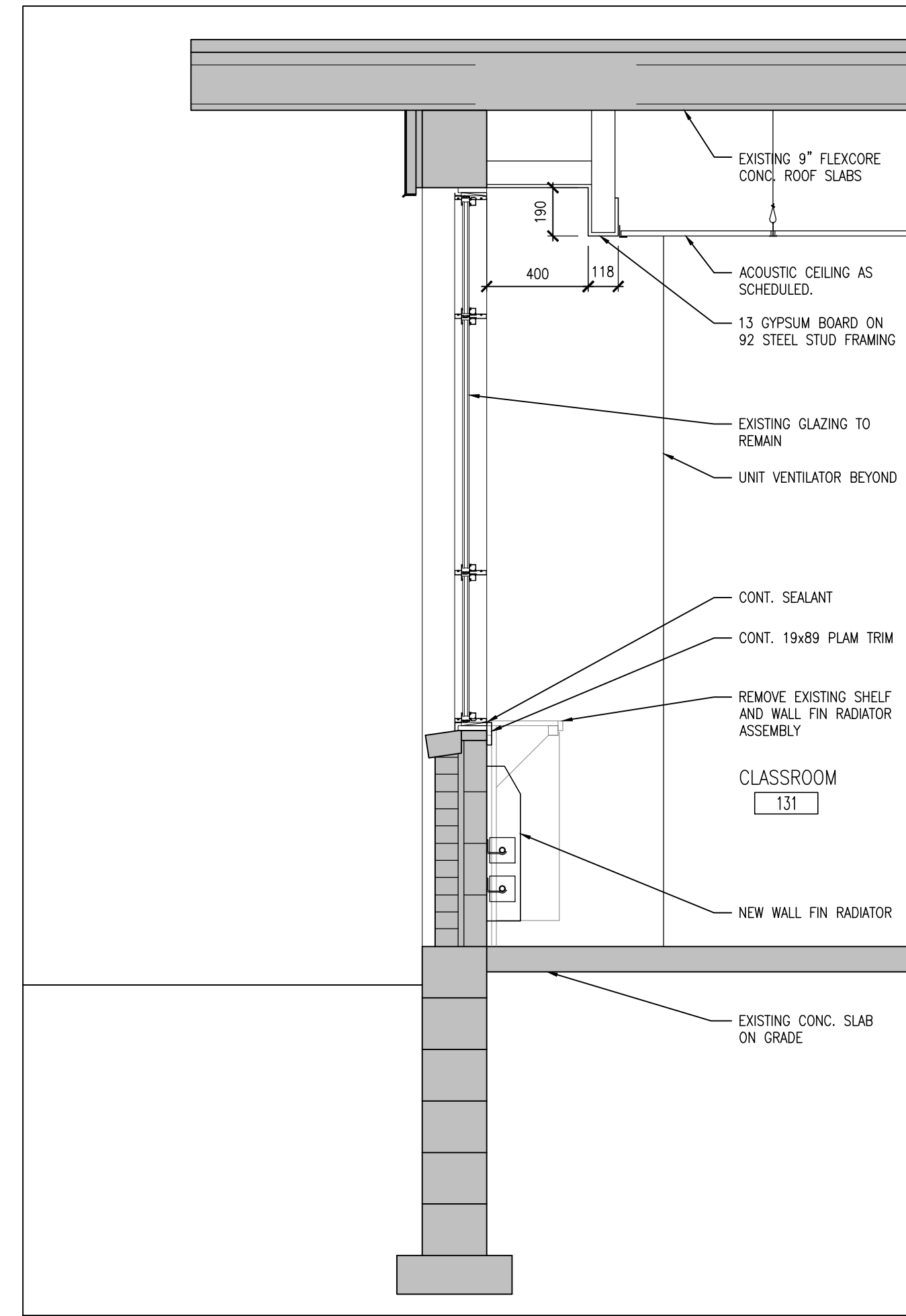
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A401 WALL SECTION AT WAITING
1:20



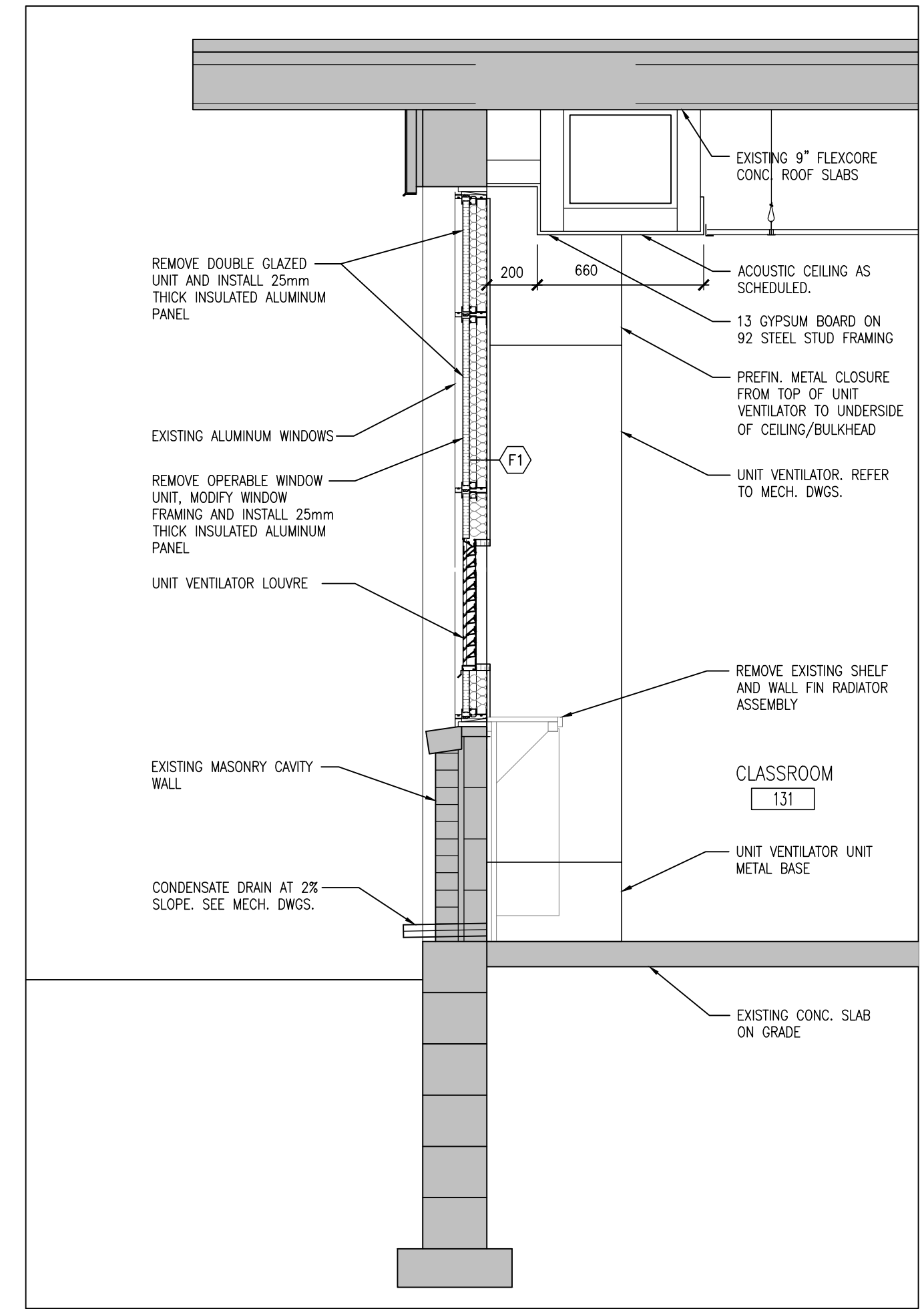
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A401 WALL SECTION AT WAITING
1:20



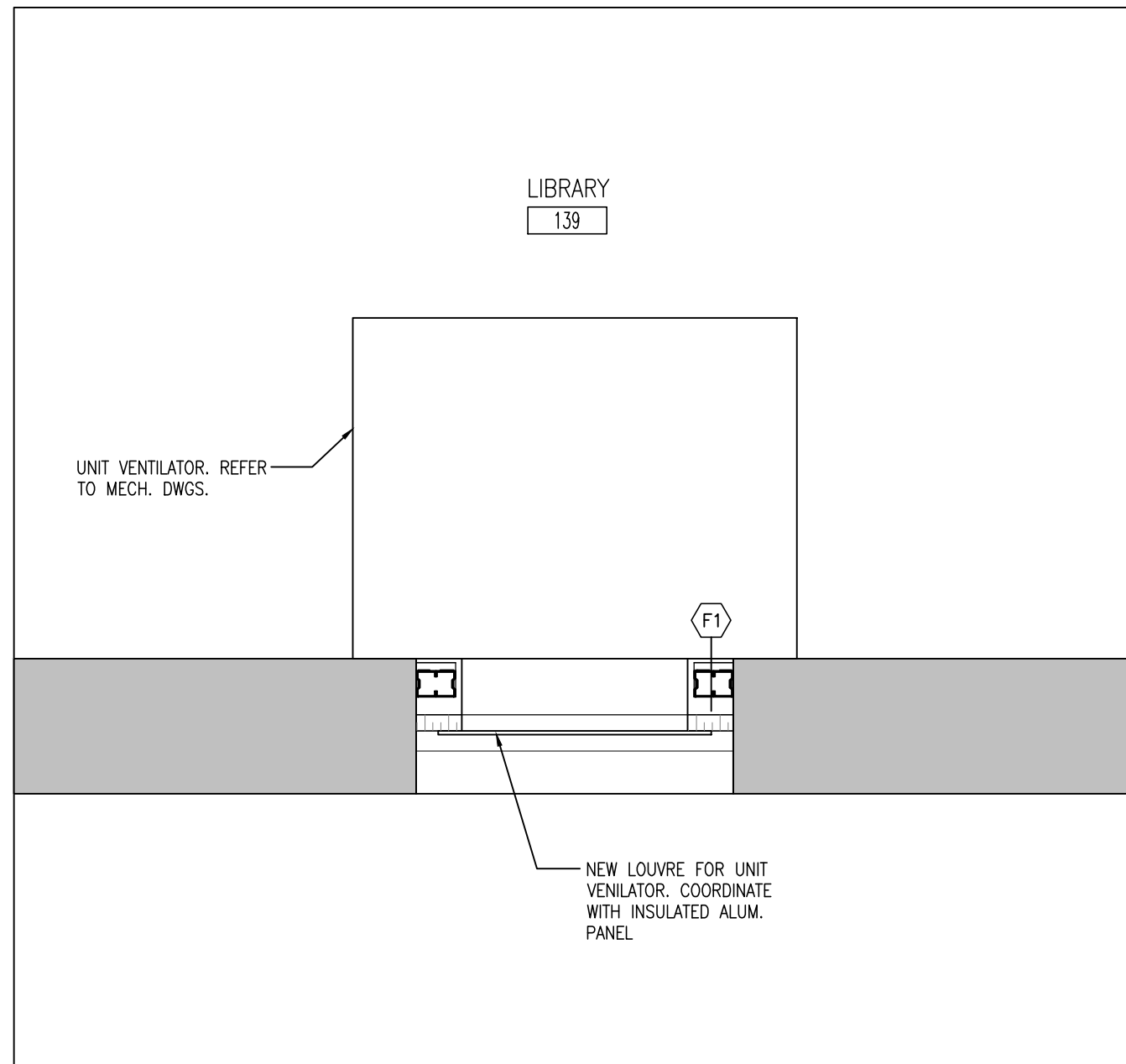
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A401 WALL SECTION AT COPY ROOM
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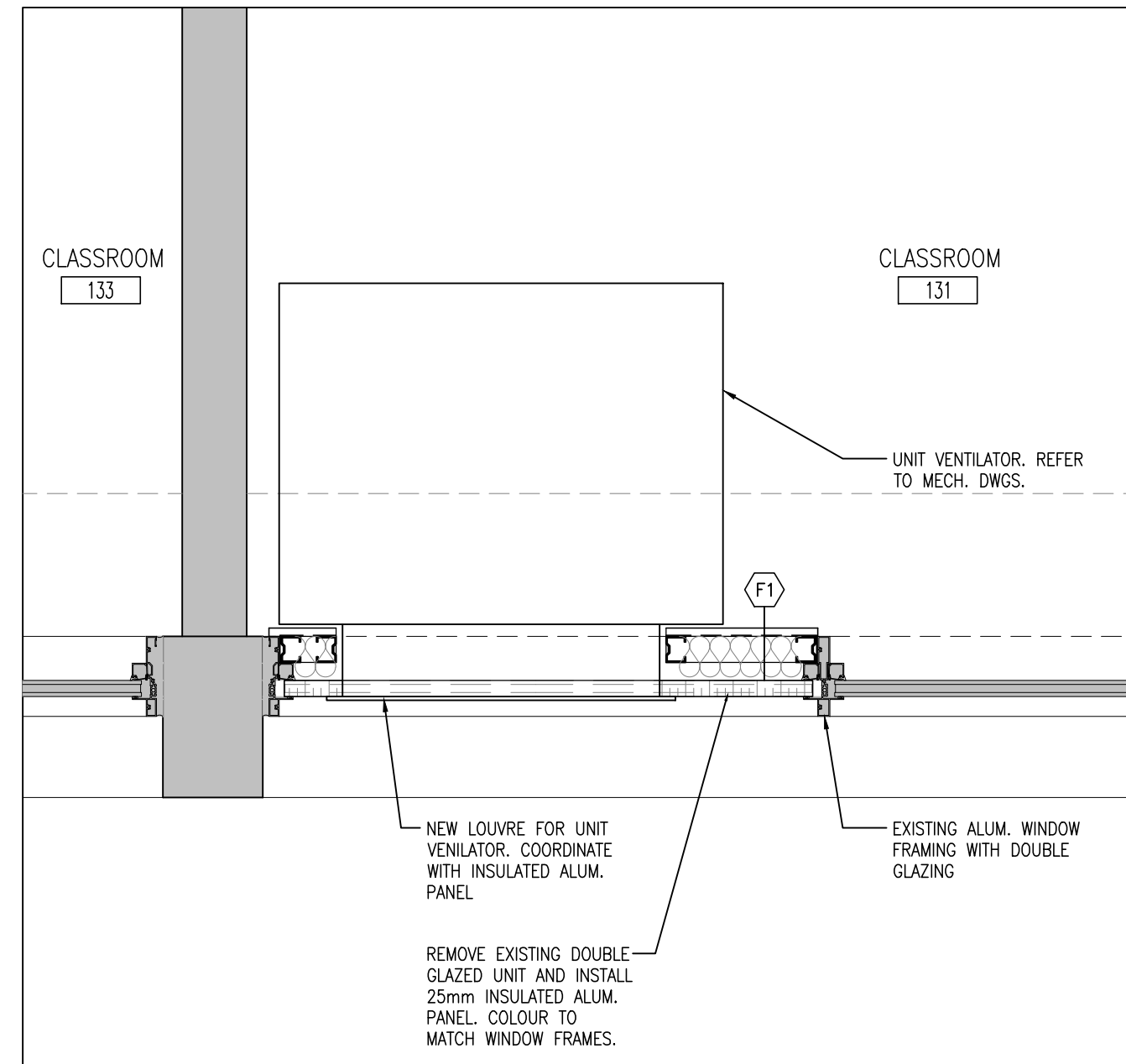
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A401 WALL SECTION
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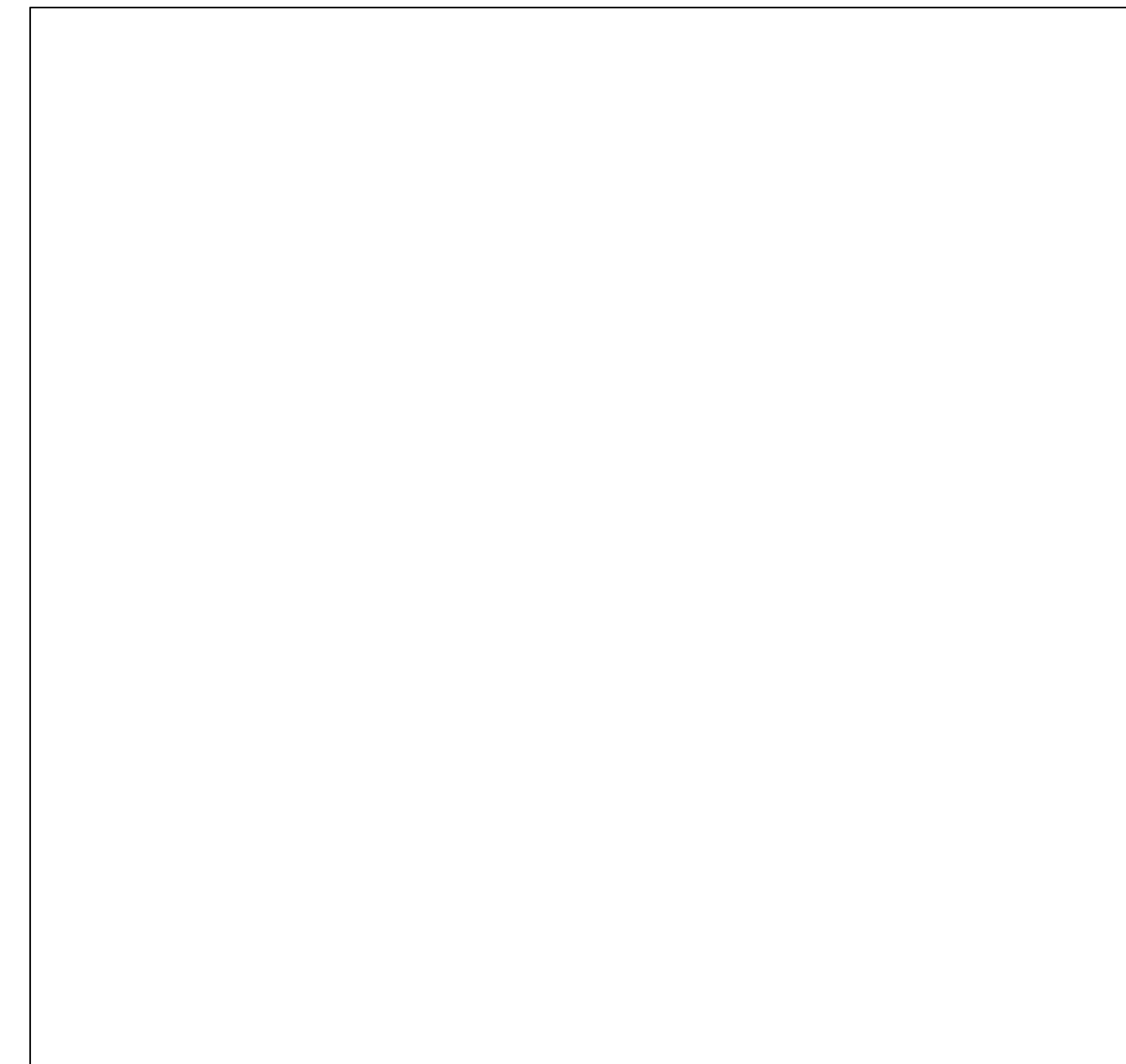
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A401 WALL SECTION
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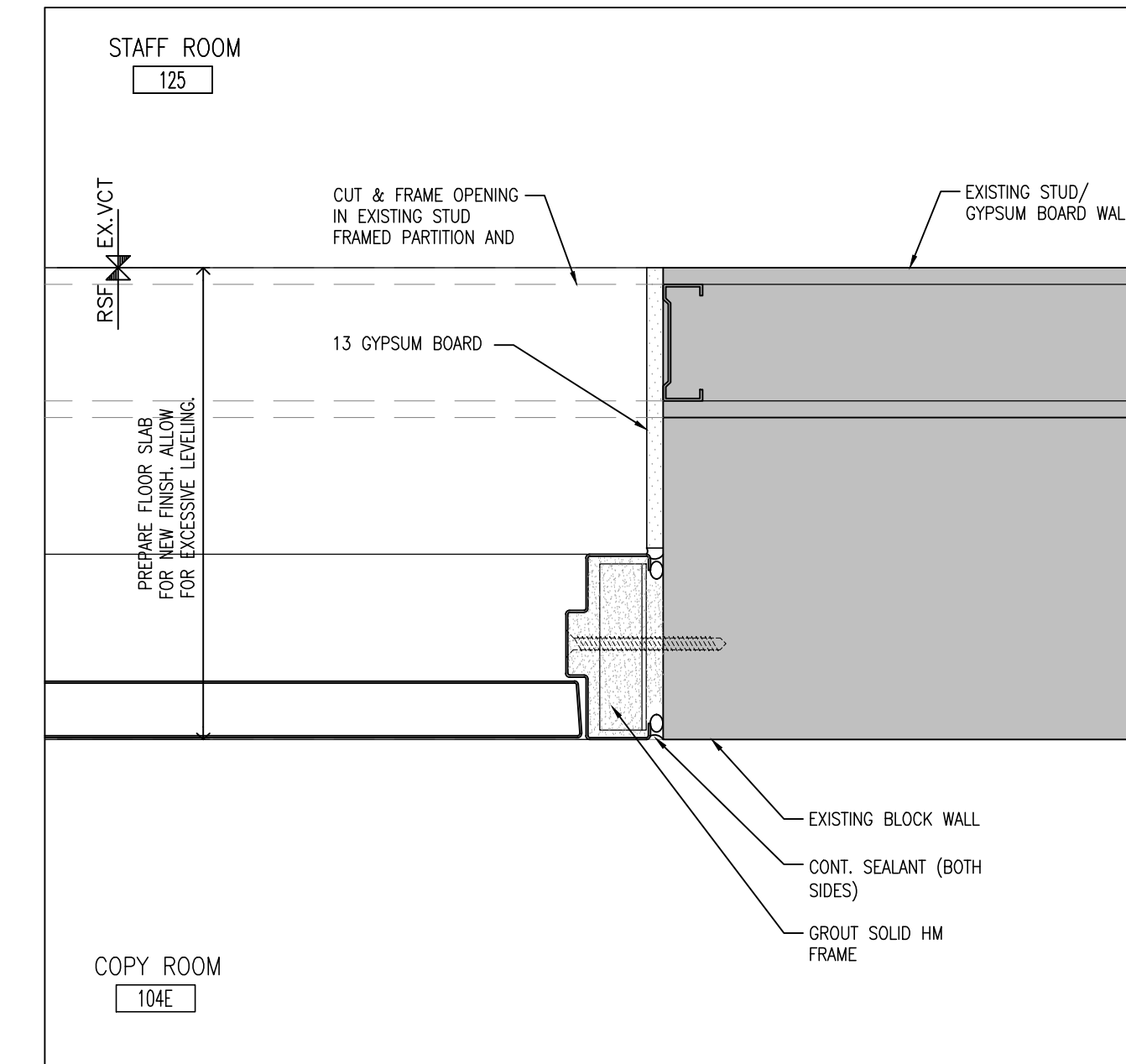
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A601 UNIT VENTILATOR DETAIL
1:10



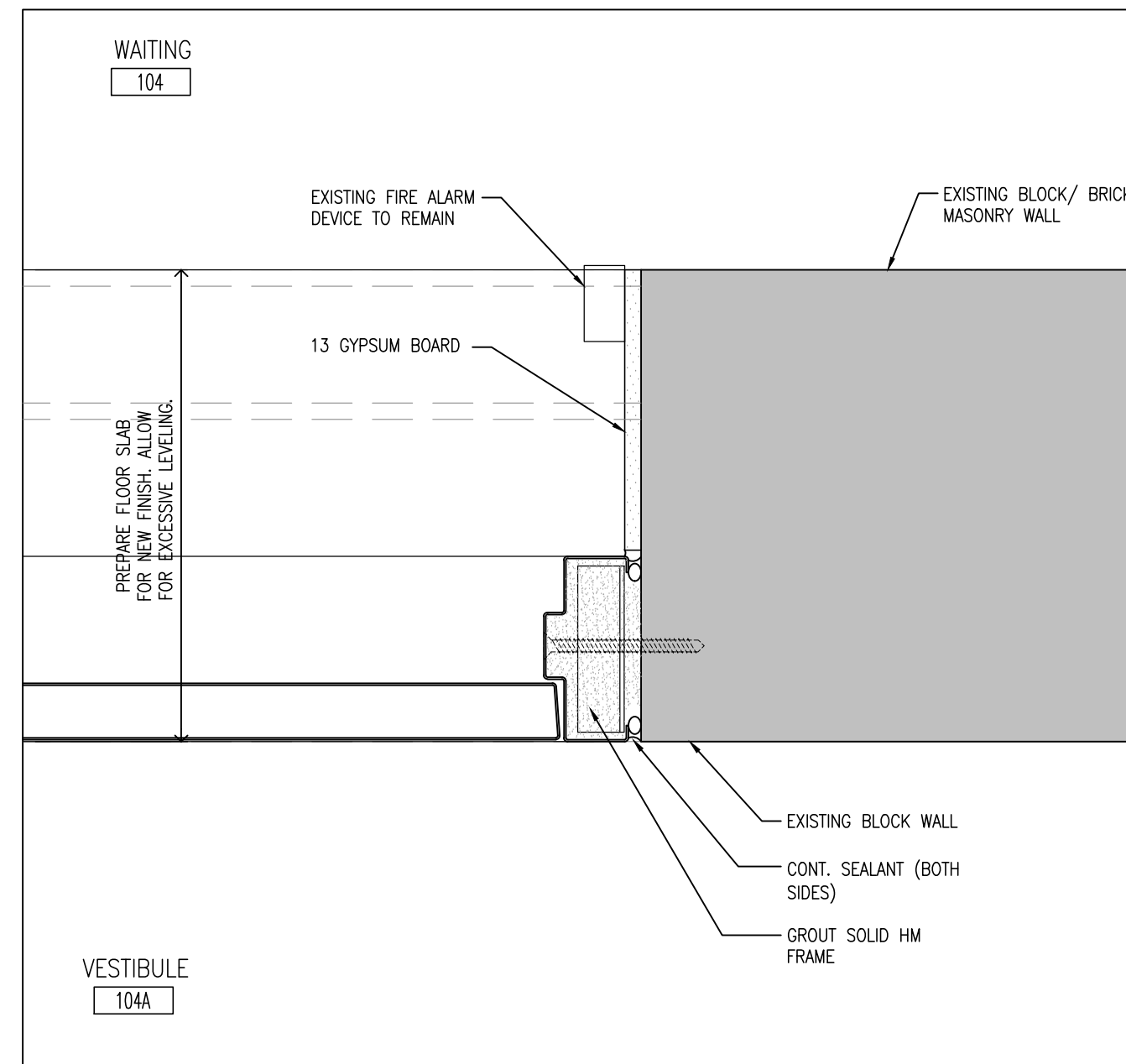
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A601 UNIT VENTILATOR DETAIL
1:10



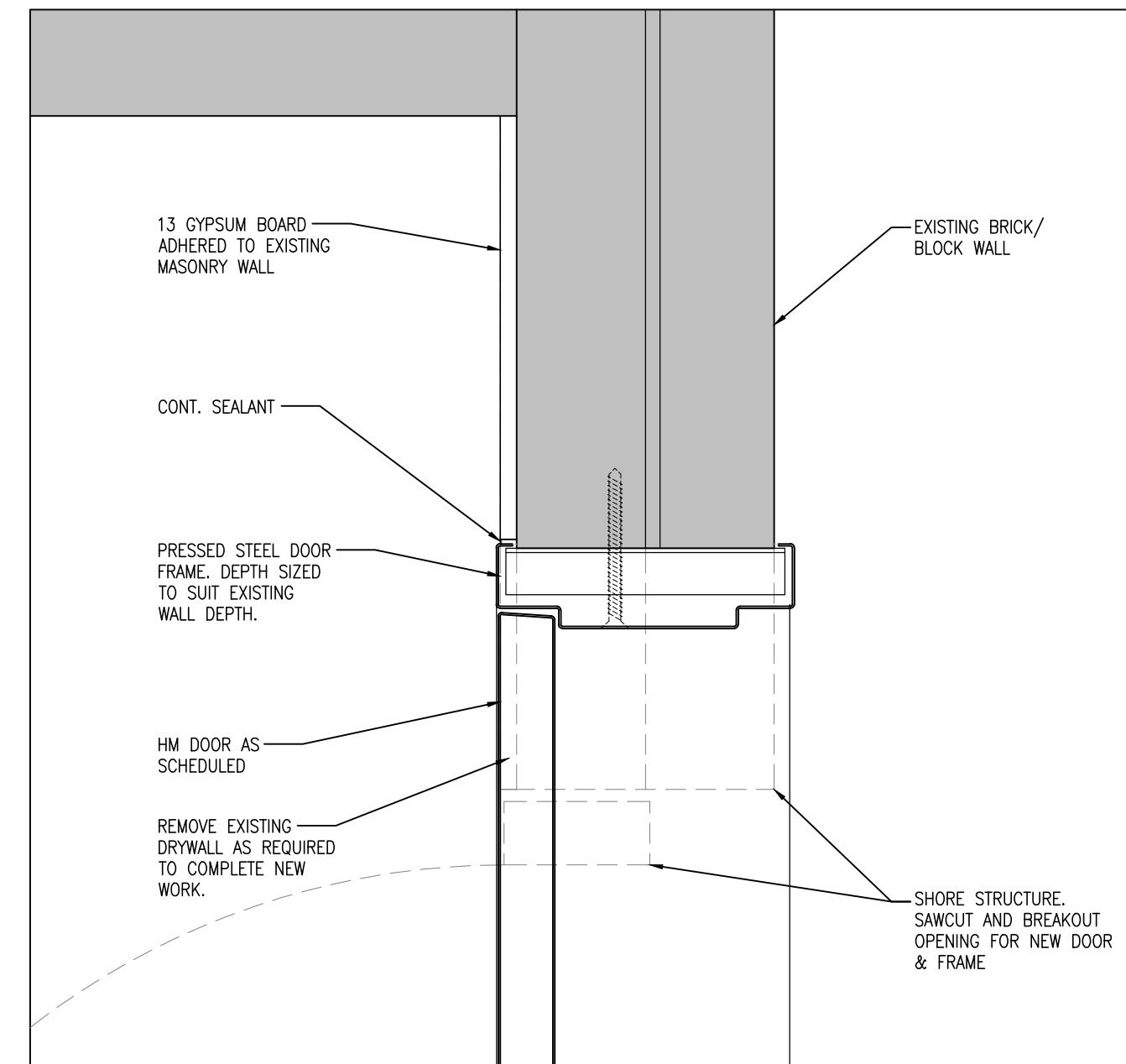
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A601 DETAIL (NOT USED)
1:10



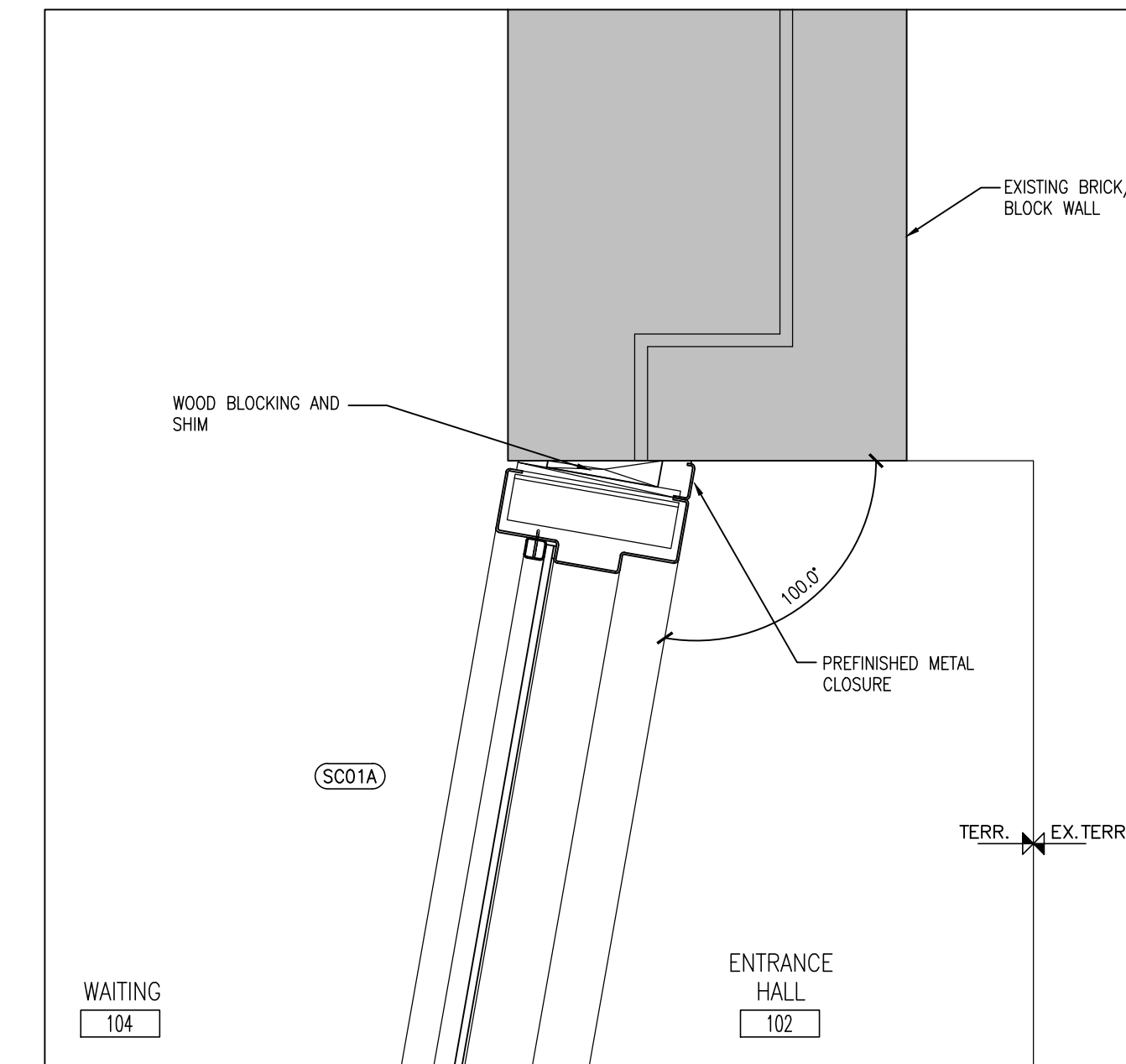
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A601 JAMB DETAIL
1:5



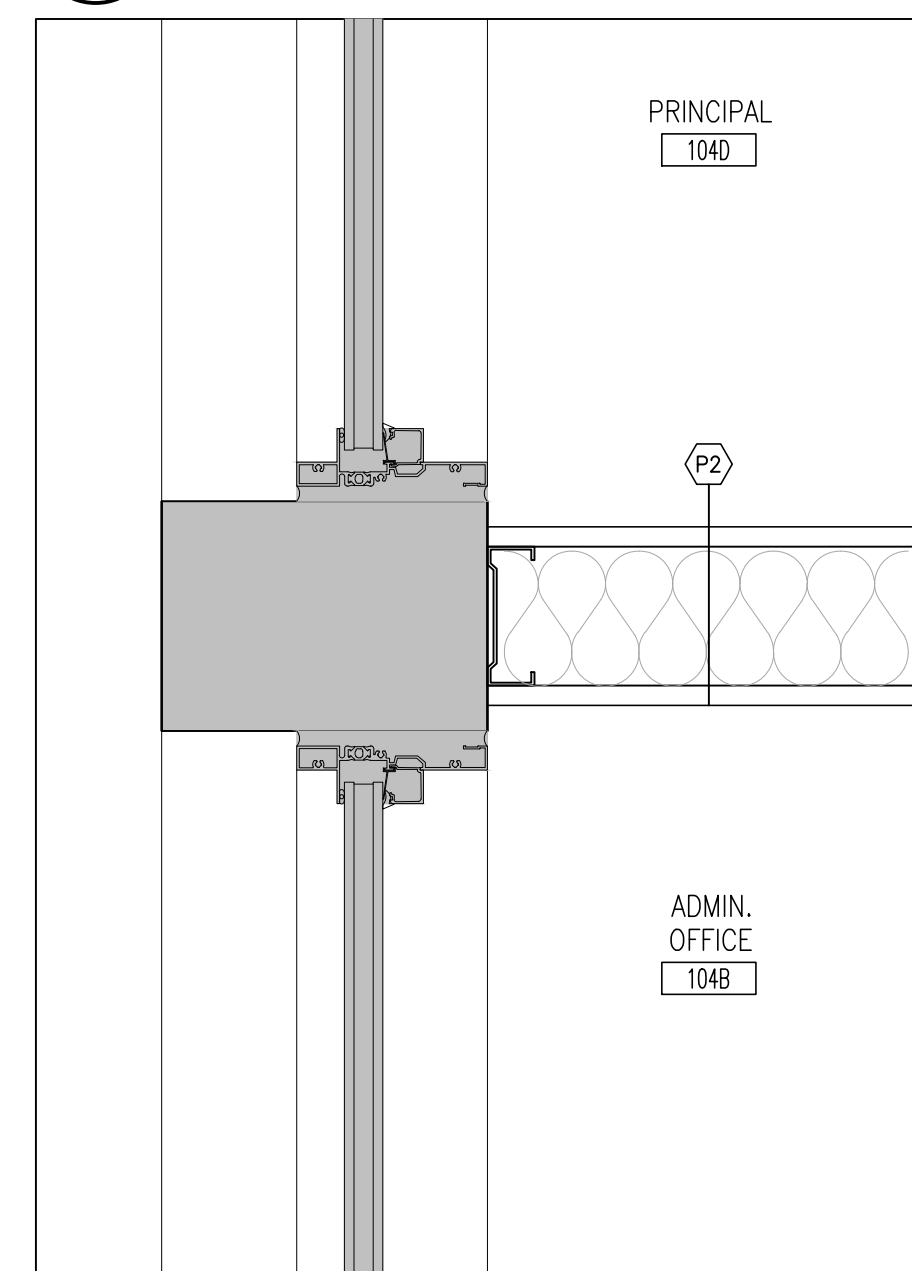
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A601 JAMB DETAIL
1:5



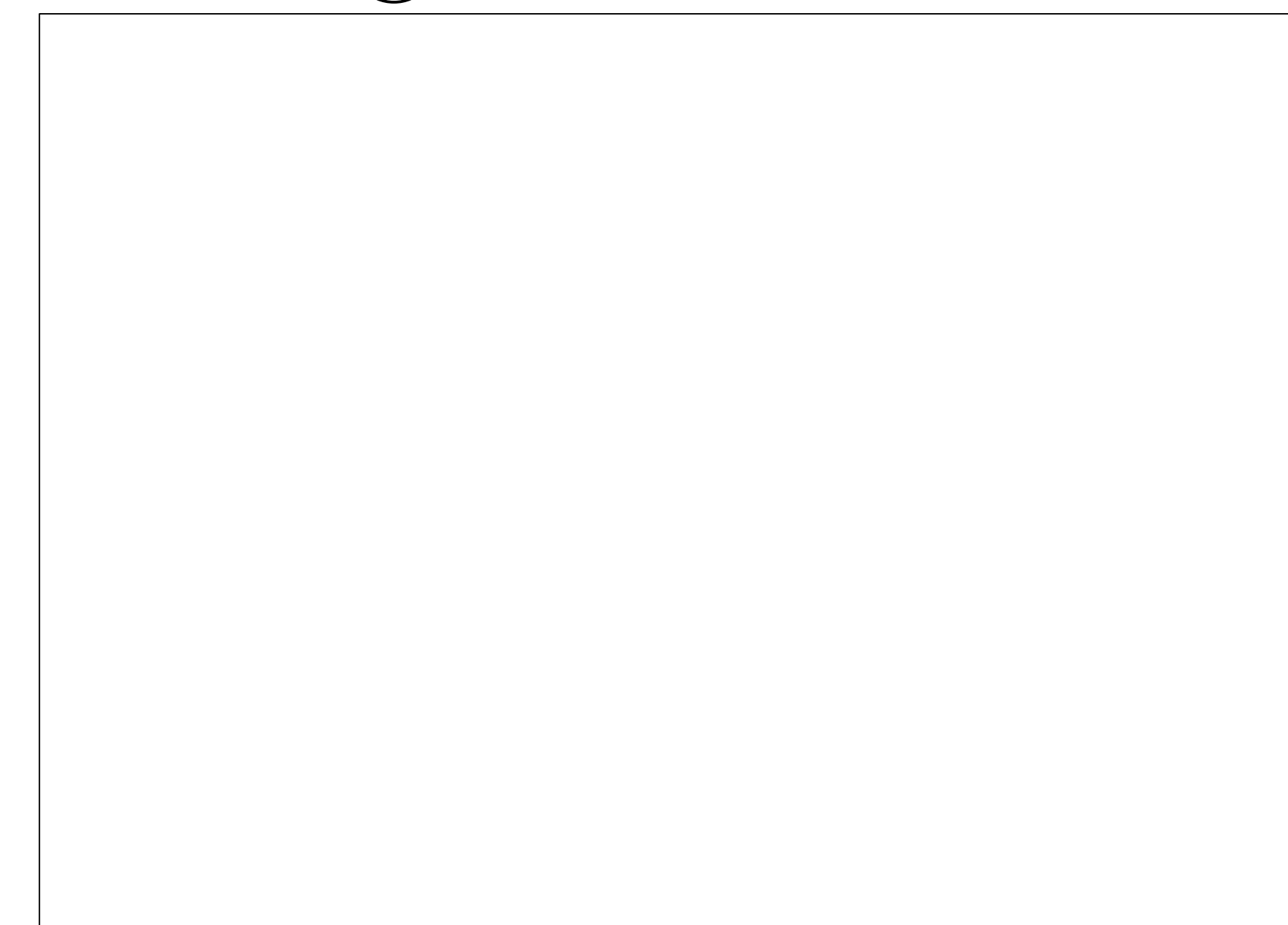
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A601 JAMB DETAIL
1:5



2
A601 JAMB DETAIL
1:5



4
A601 PLAN DETAIL
1:5



1
A601 DETAIL (NOT USED)
1:5

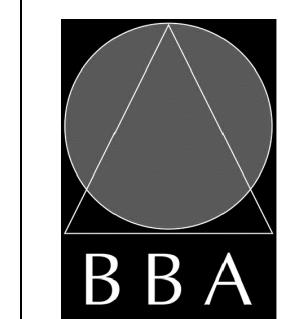
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1	ISSUED FOR PERMIT & TENDER	MARCH 10, 2025	BBA

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PROJECT:
**RENOVATIONS AT
ECOLE ELEMENTAIRE
FELIX-LECLERC**
50 CELESTINE DRIVE
TORONTO, ON

DRAWING:
PLAN DETAILS



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24194
DRAWING NO:
A601

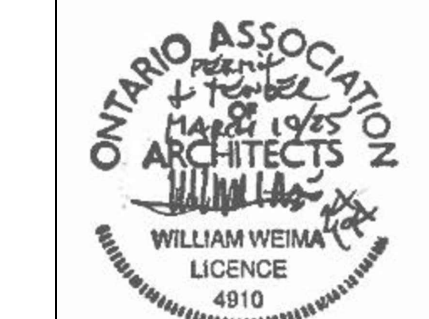
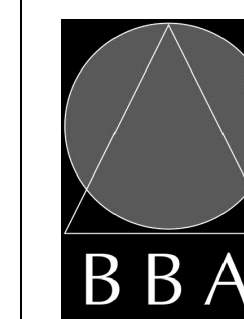
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PROJECT:
**RENOVATIONS AT
ECOLE ELEMENTAIRE
FELIX-LECLERC**
50 CELESTINE DRIVE
TORONTO, ON

DRAWING:
INTERIOR ELEVATIONS



**BARRY BRYAN
ASSOCIATES**

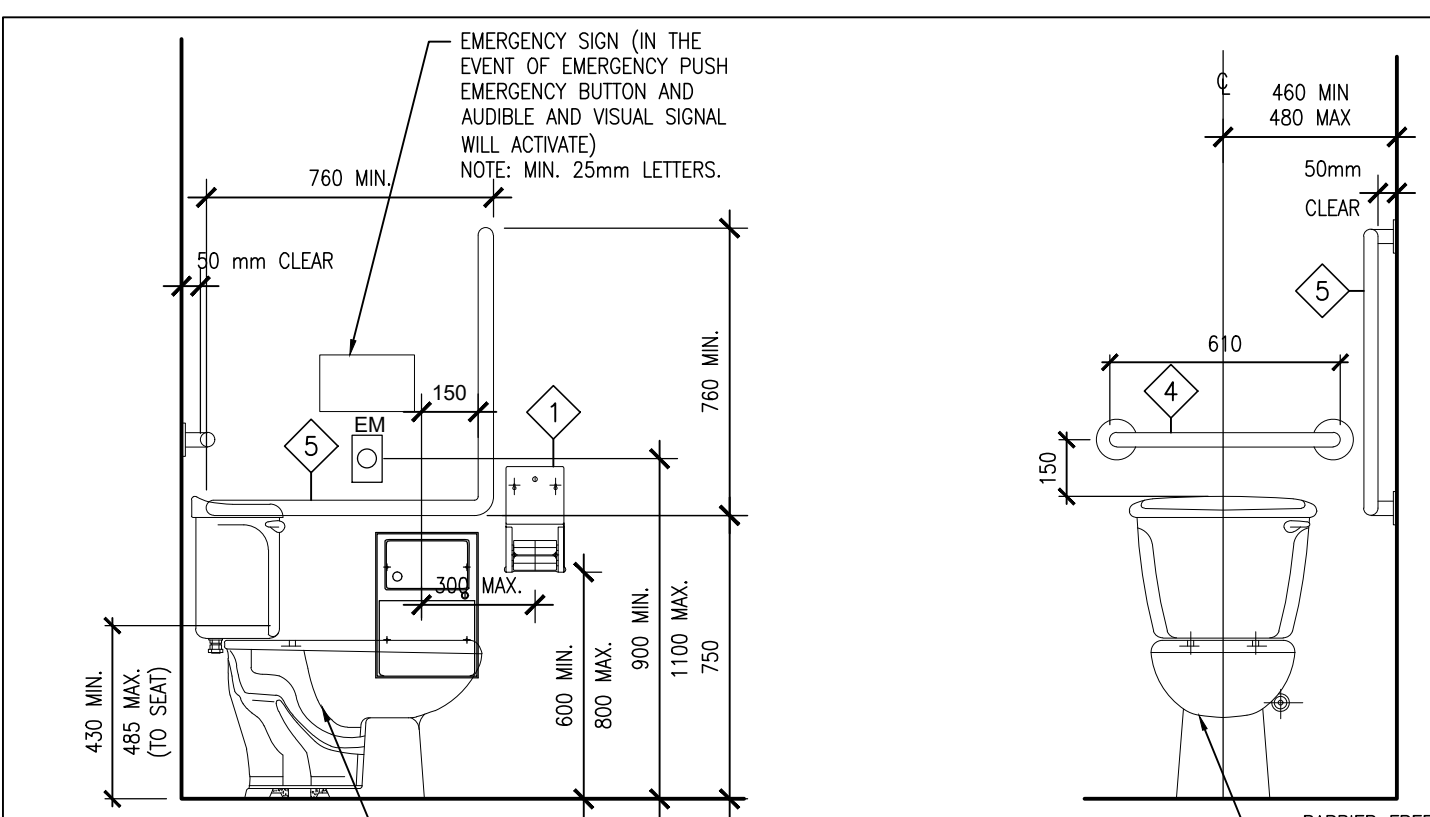
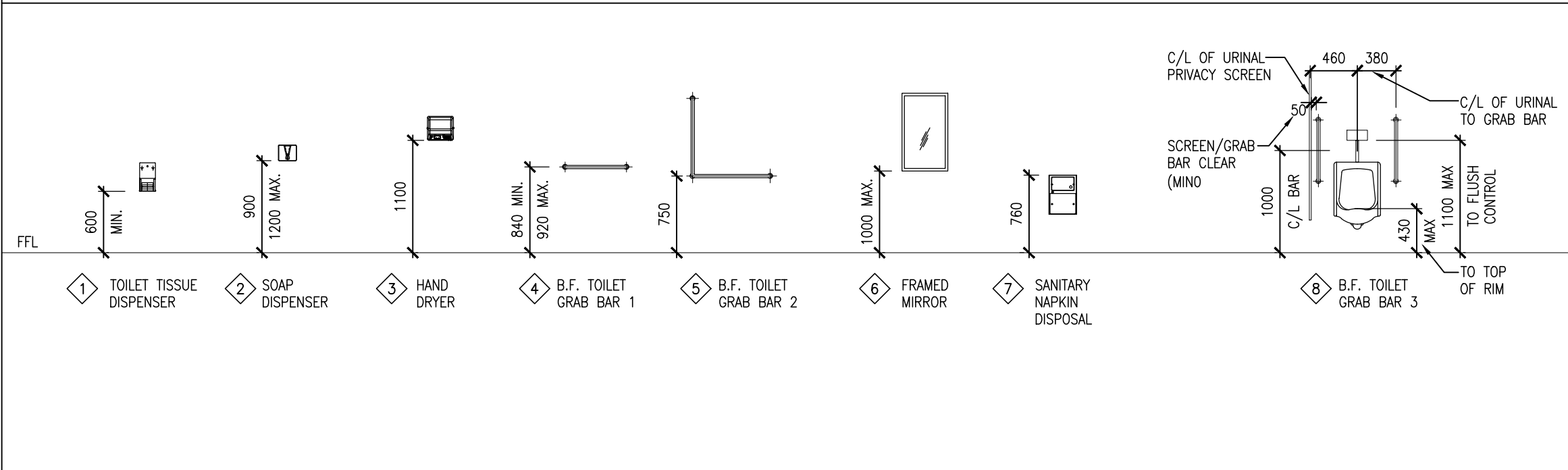
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DATE: JAN. 2025
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FILE: 24194-A701-A703

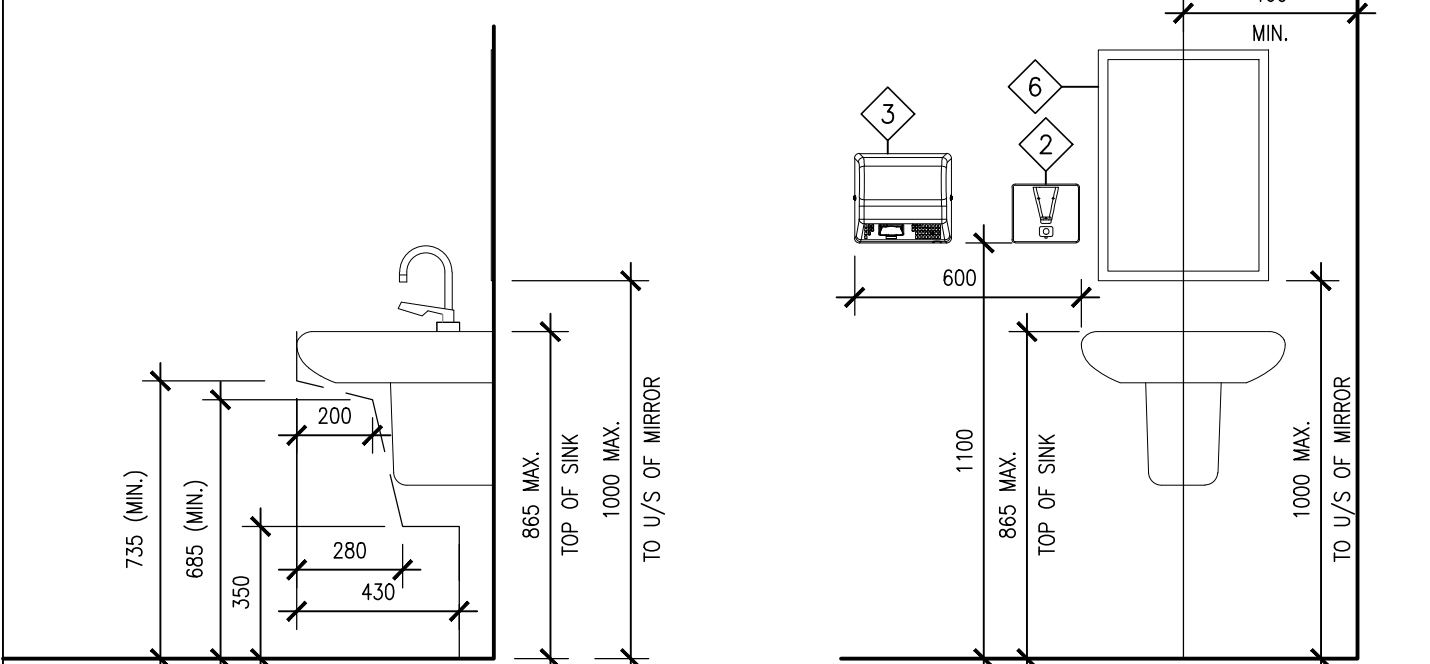
PROJECT NO:
24194

DRAWING NO:
A701

WASHROOM ACCESSORIES MOUNTING HEIGHTS



Barrier Free Toilet

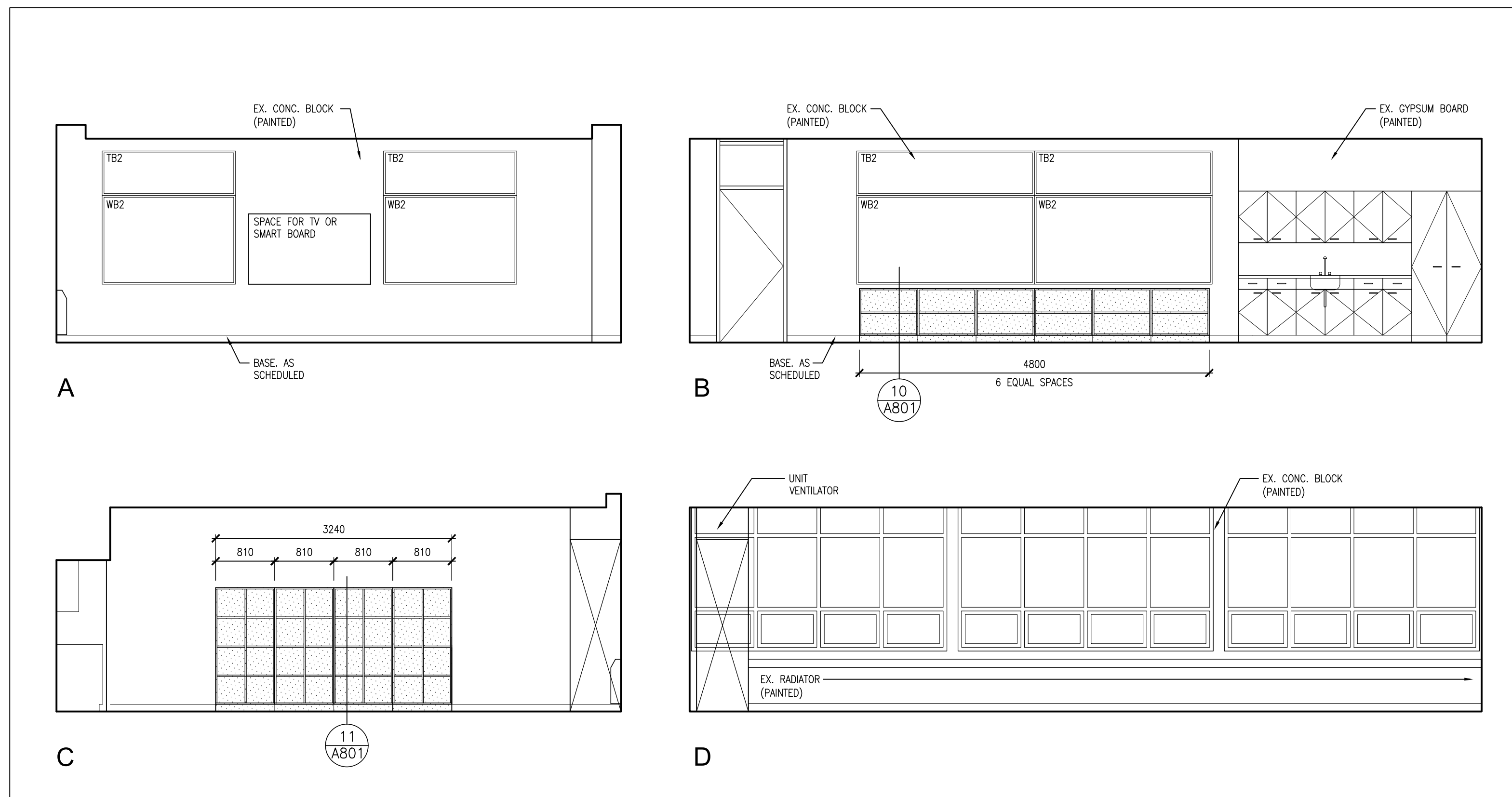


Barrier Free Lavatory

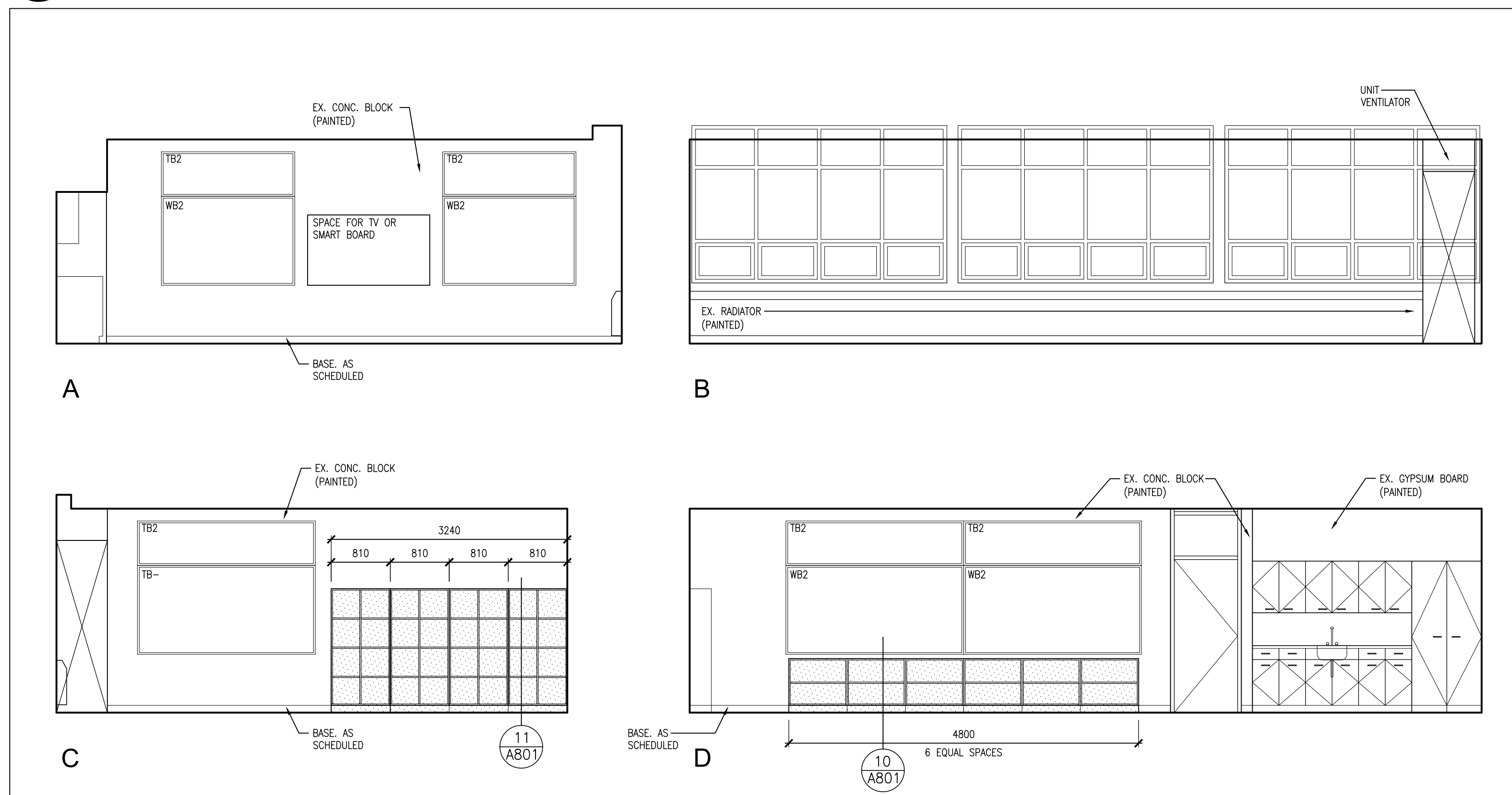
NOTES:

- GRAB BARS SHALL BE MIN. 35mm ϕ , 40mm ϕ MAX.
- CLEARANCE FOR GRAB BARS TO BE MIN. 38mm, 50mm MAX.
- GRAB BARS TO HAVE SLIP RESISTANT SURFACE.
- INSTALL GRAB BARS TO SUPPORT LOADING REQUIRED BY THE ONTARIO BUILDING CODE.
- LOCATE COAT HOOK ON SIDEWALL OF TOILET STALL DOOR AT 1200mm MAX. ABOVE FINISHED FLOOR AND PROJECTING NOT MORE THAN 50mm.
- ALL FIXTURES SHALL CONFORM TO BARRIER-FREE HEIGHTS OUTLINED IN THE LATEST EDITION OF THE ONTARIO BUILDING CODE.
- ALL ACCESSORIES SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE ONTARIO BUILDING CODE.
- INSTALL DOOR OPERATOR PUSH BUTTONS AND PUSH TO LOCK DEVICE IN ACCORDANCE WITH THE REQUIREMENTS OF THE LATEST EDITION OF THE ONTARIO BUILDING CODE.
- INSTALL EMERGENCY CALL SYSTEM IN ACCORDANCE WITH THE LATEST EDITION OF THE ONTARIO BUILDING CODE.
- PAPER TOWEL DISPENSER MOUNTED 600MM TO EDGE OF LAVATORY.

3 BARRIER FREE MOUNTING HEIGHT REQUIREMENTS
A701 1:20



2 INT. ELEVATIONS - CLASSROOM 138/142
A701 1:50

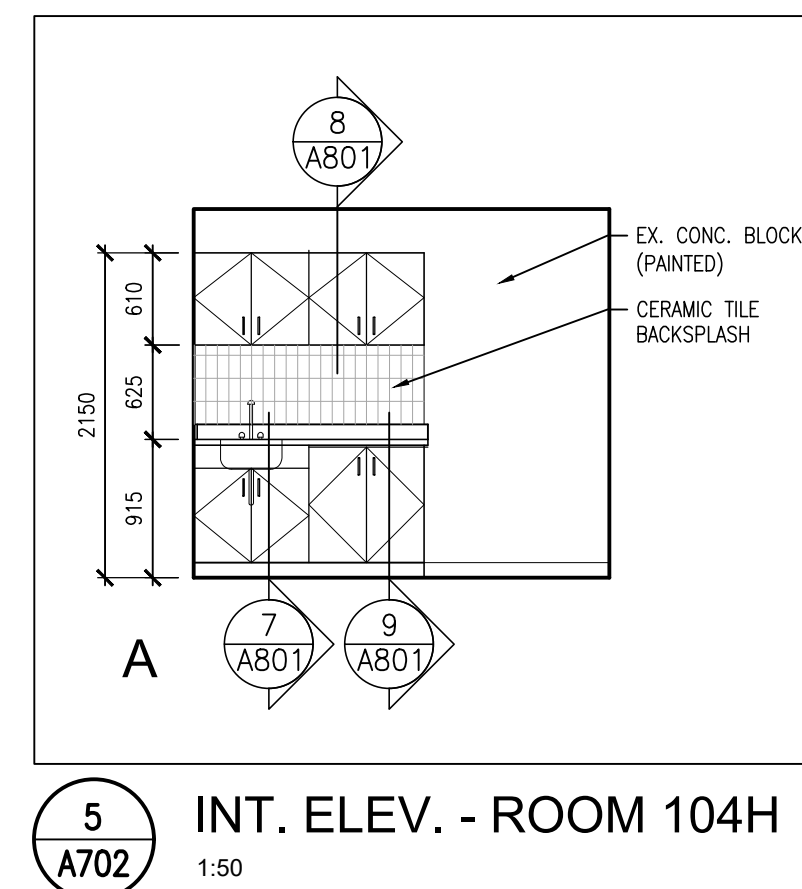


1 INT. ELEVATIONS - CLASSROOM 131/ 132/ 133/ 134
A701 1:50

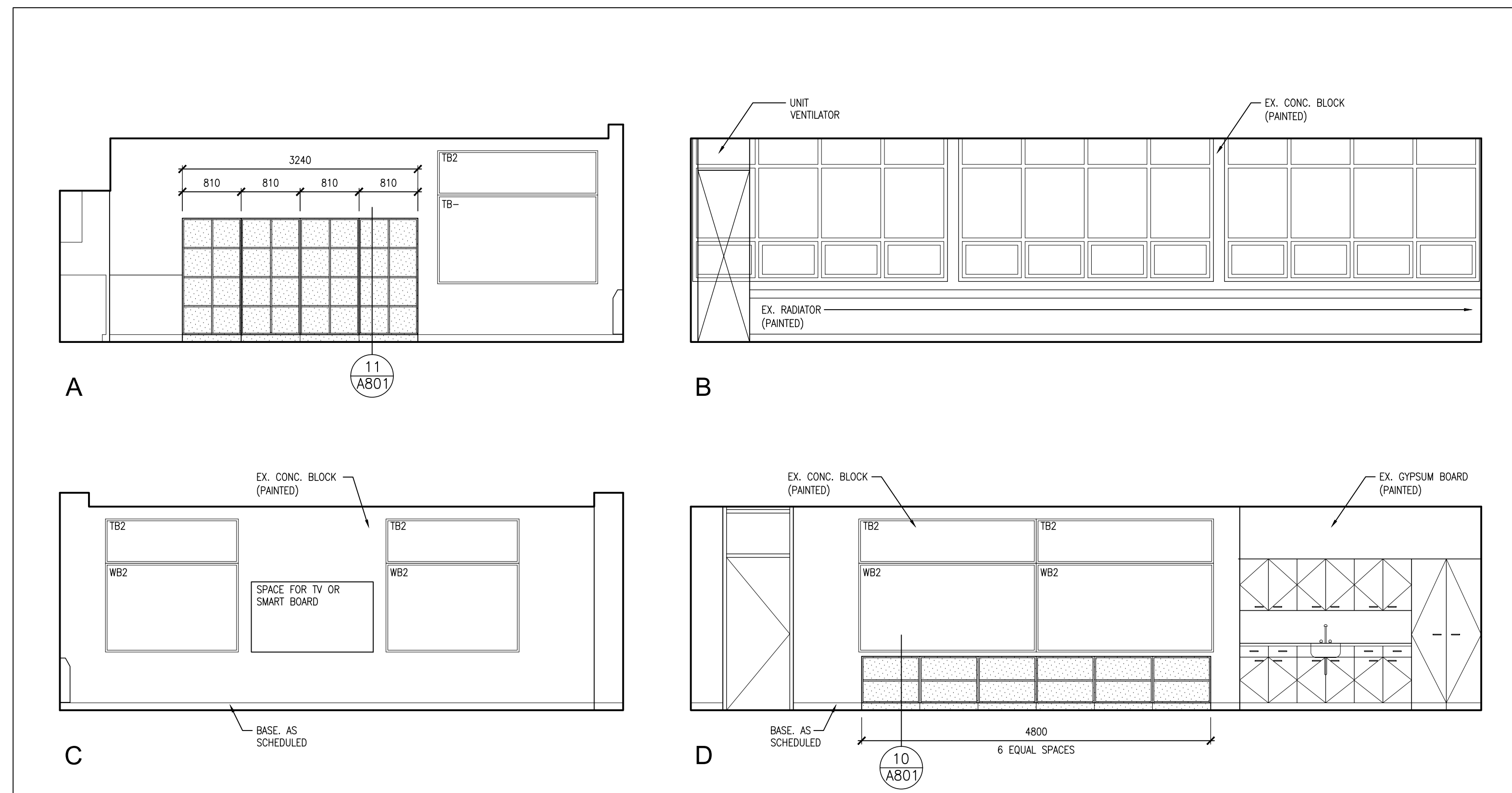
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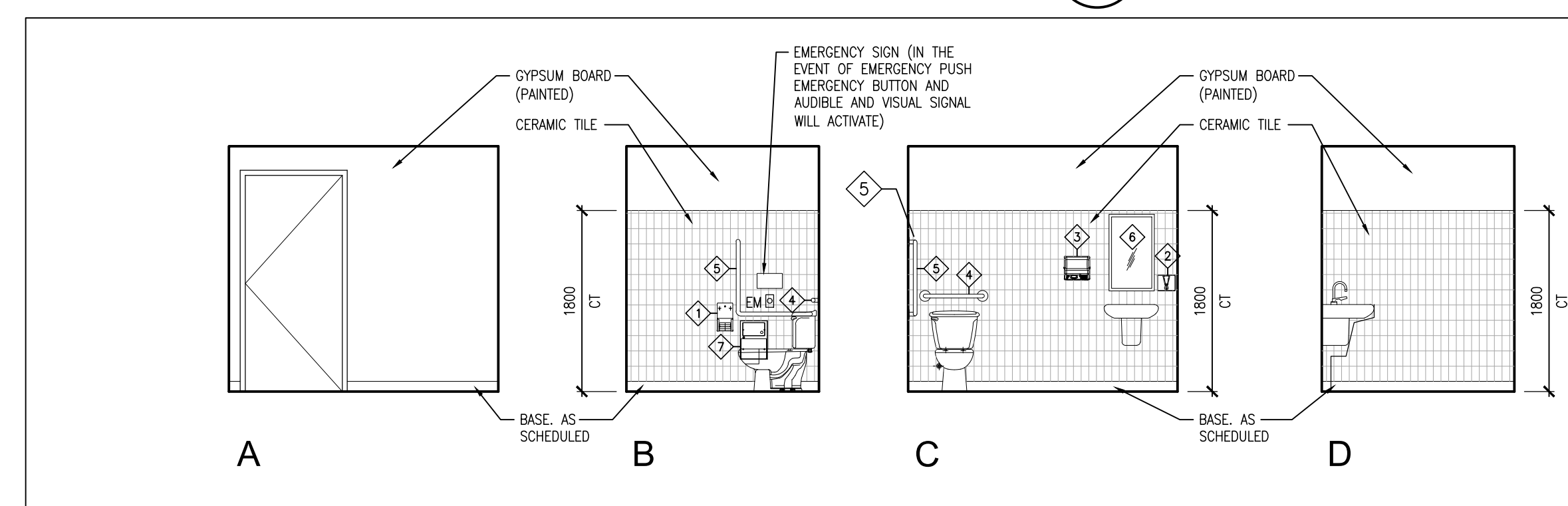
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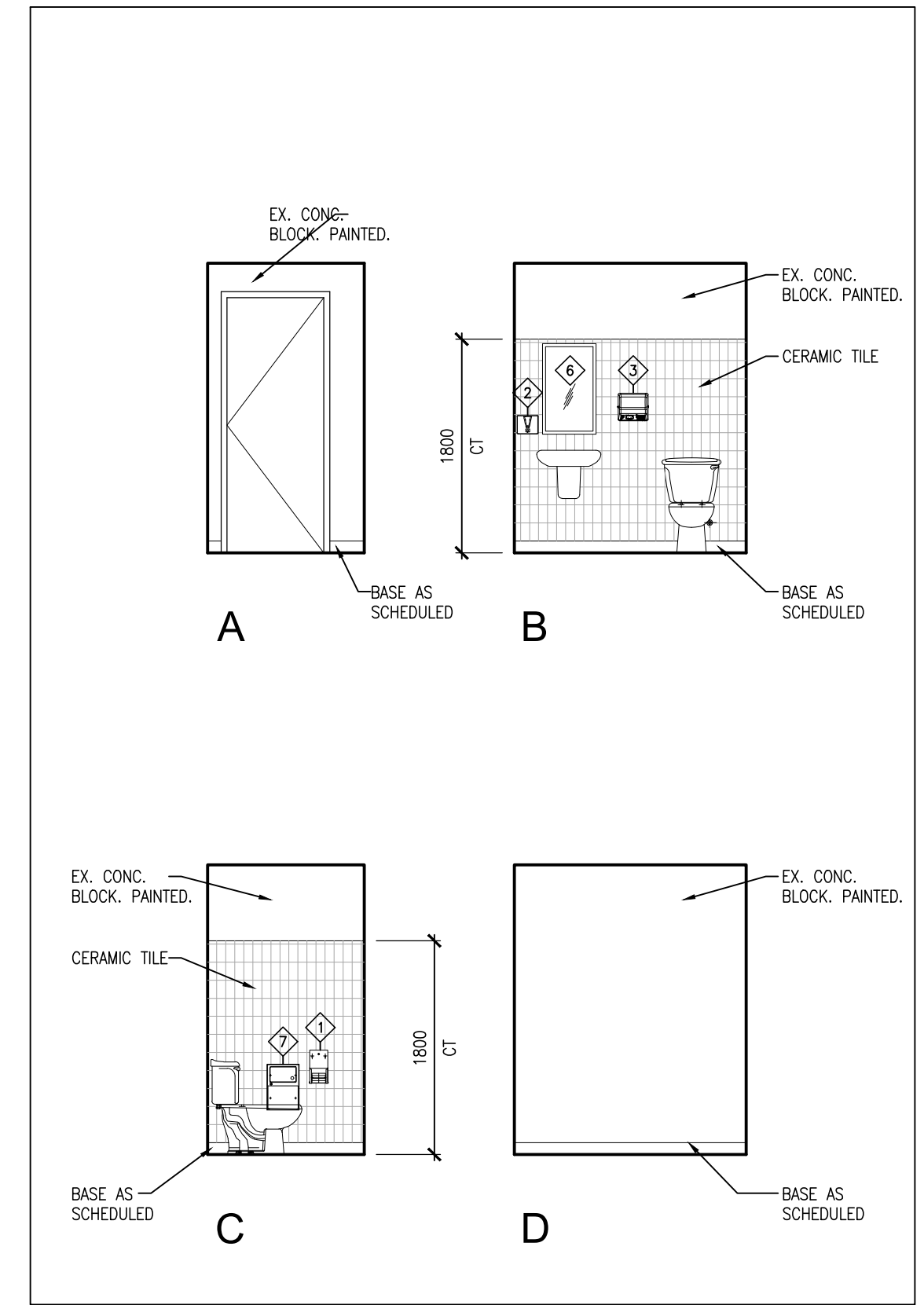
5 INT. ELEV. - ROOM 104H
A702 1:50



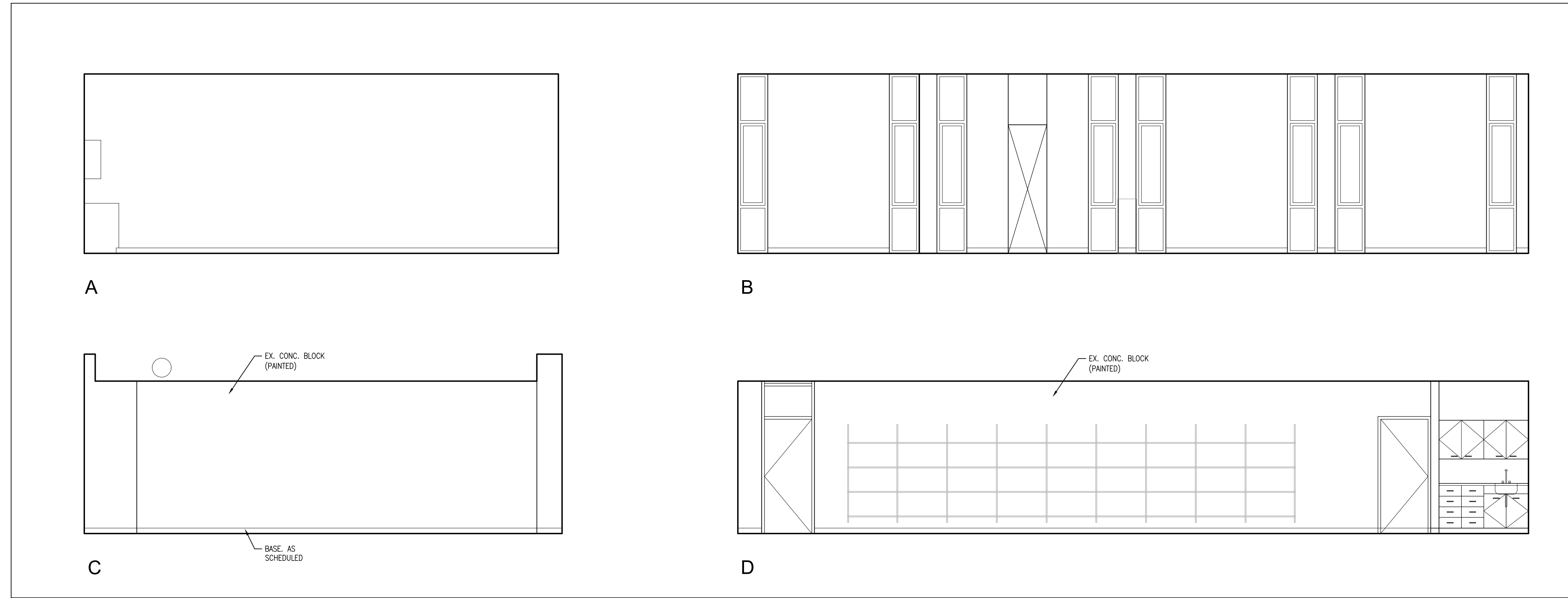
2 INT. ELEVATIONS - CLASSROOM 141
A702 1:50



4 INT. ELEV. - WASHROOM 104G
A702 1:50



3 INT. ELEV. - WASHROOM #123 (#124 MIRR)
A702 1:50



1 INT. ELEVATIONS - LIBRARY #139
A702 1:50

PROJECT:
**RENOVATIONS AT
ECOLE ELEMENTAIRE
FELIX-LECLERC**
50 CELESTINE DRIVE
TORONTO, ON

DRAWING:
INTERIOR ELEVATIONS



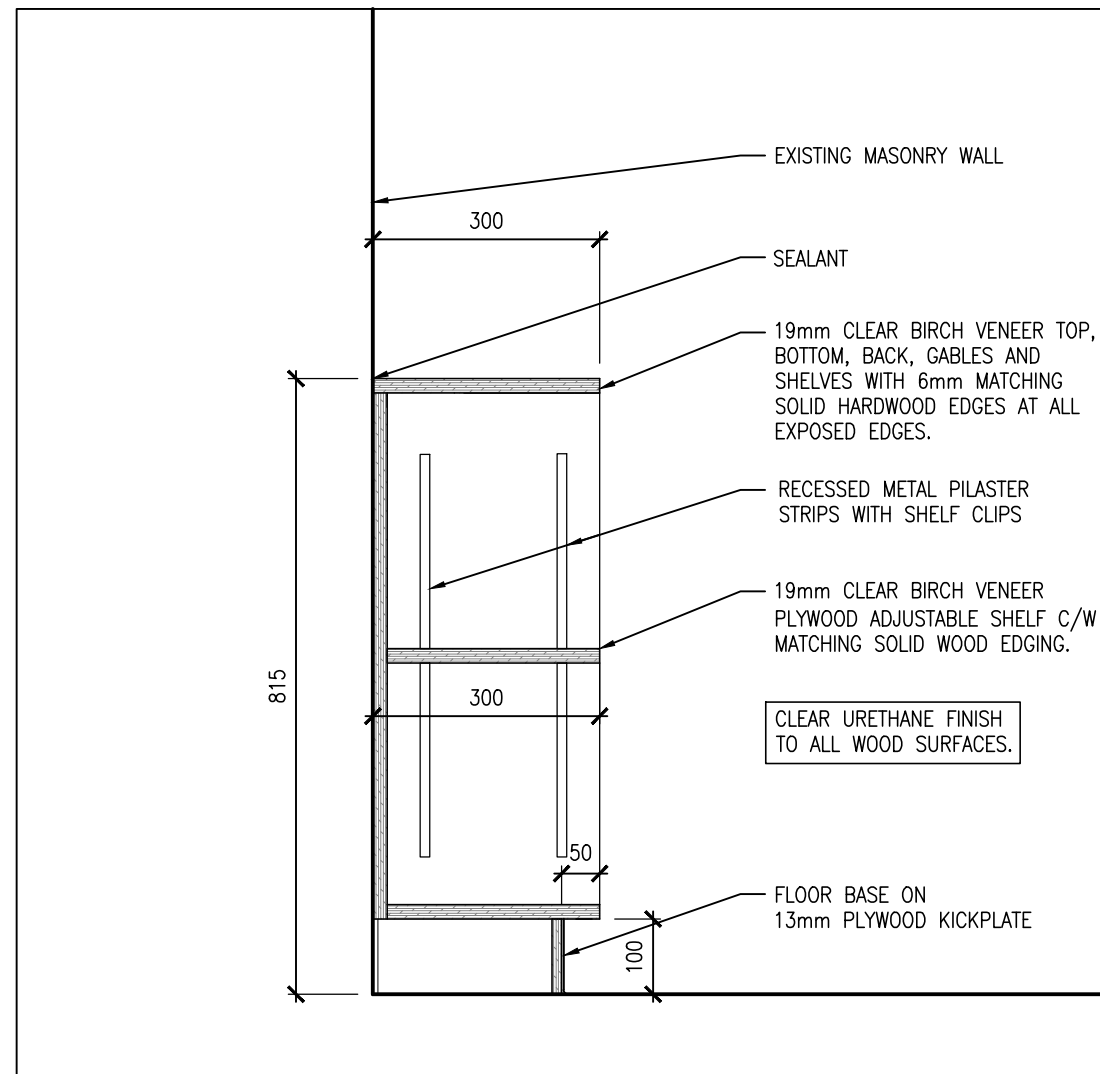
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ASSOCIATES**
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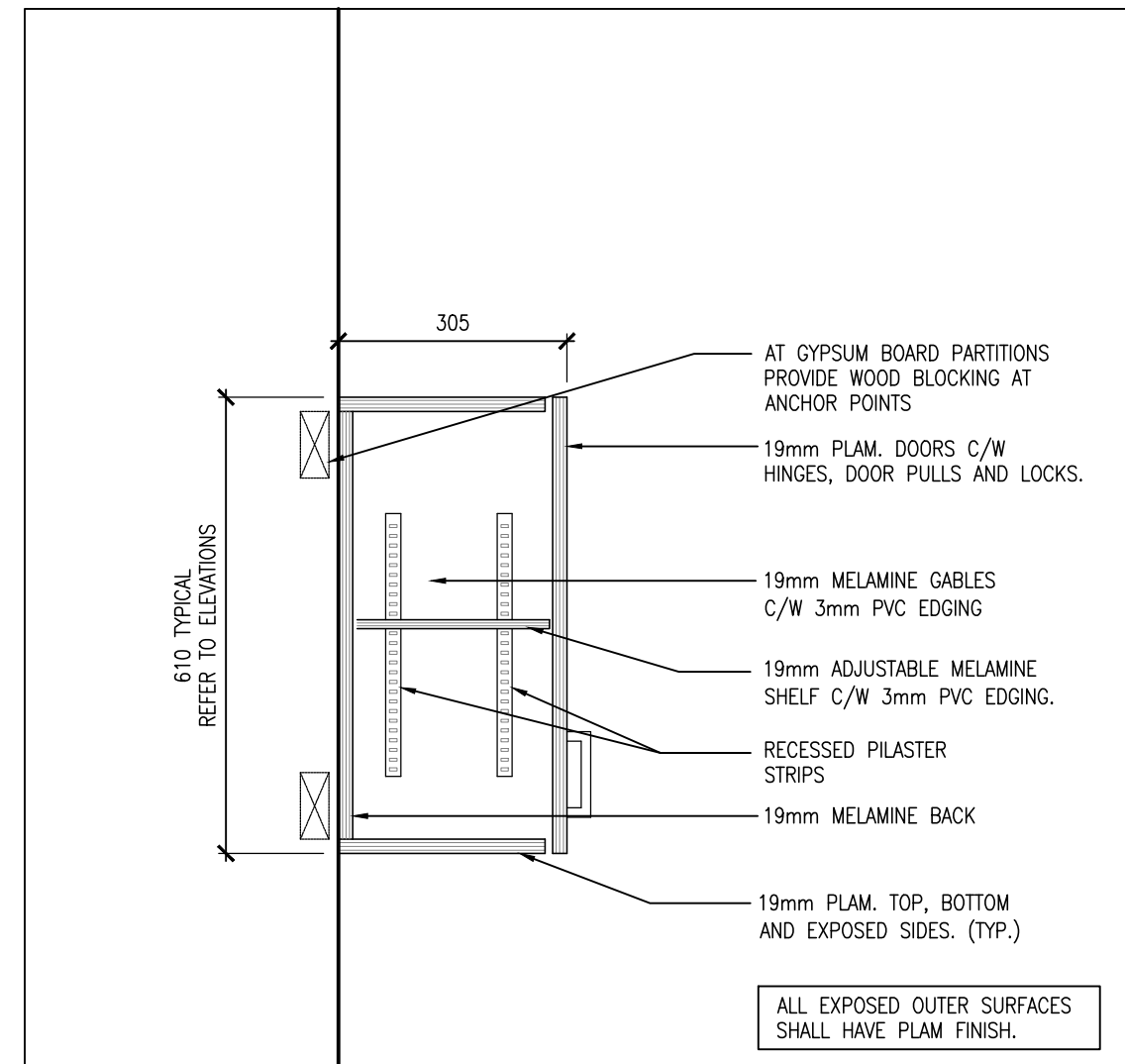
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% COMPLETE:
INITIAL:

DATE:
JAN. 2025
SCALE:
AS NOTED
FILE:
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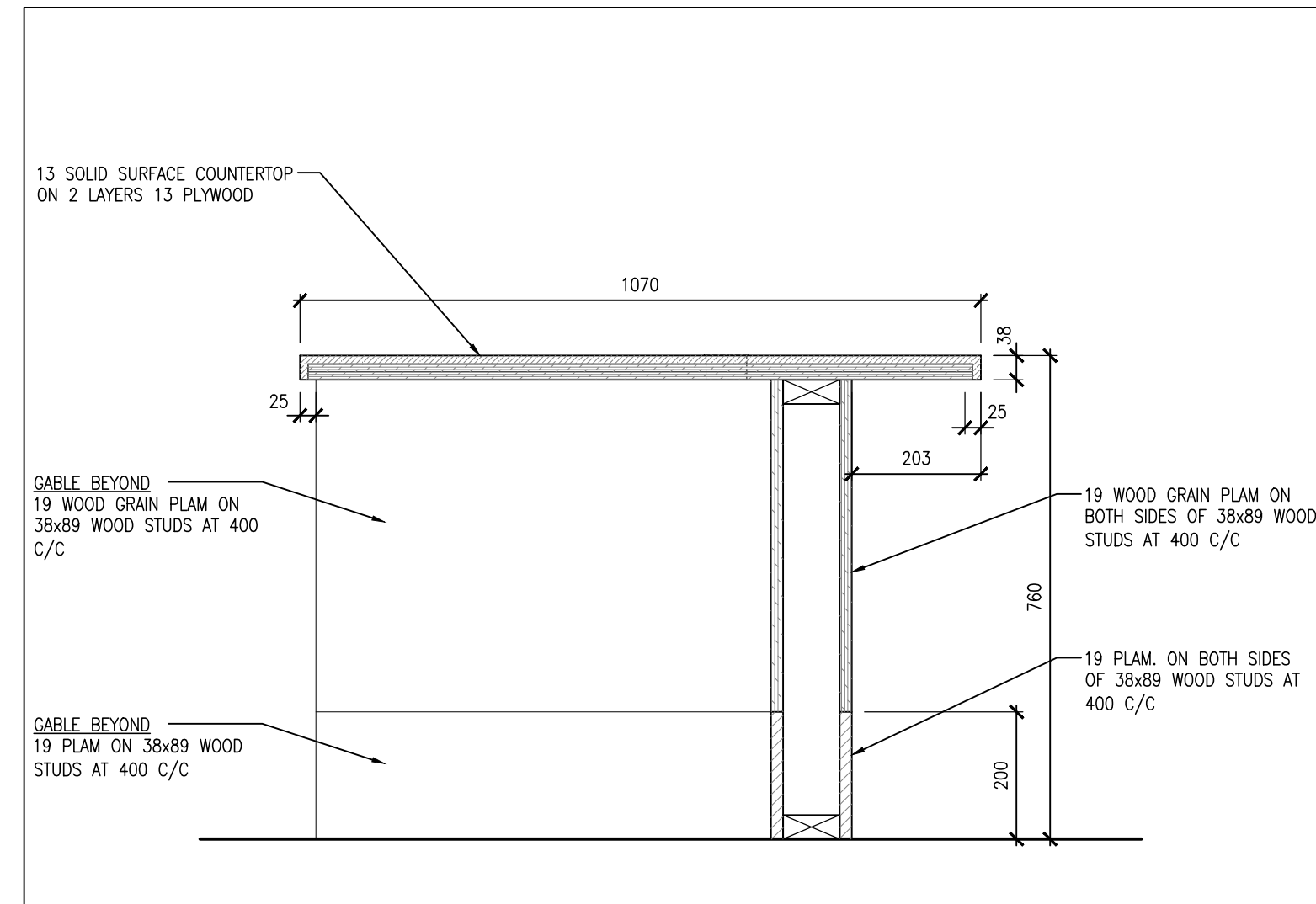
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24194
DRAWING NO:
A702



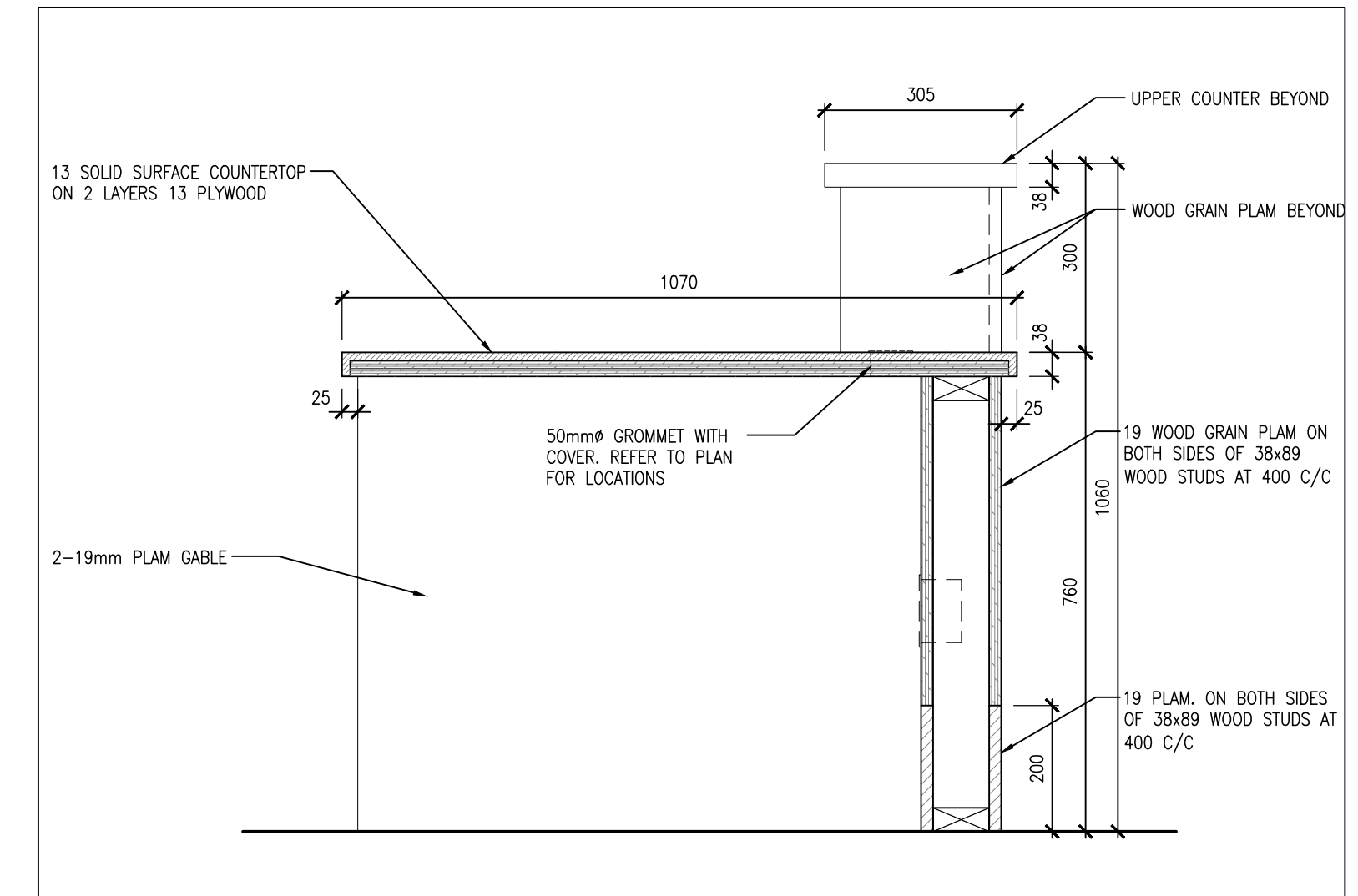
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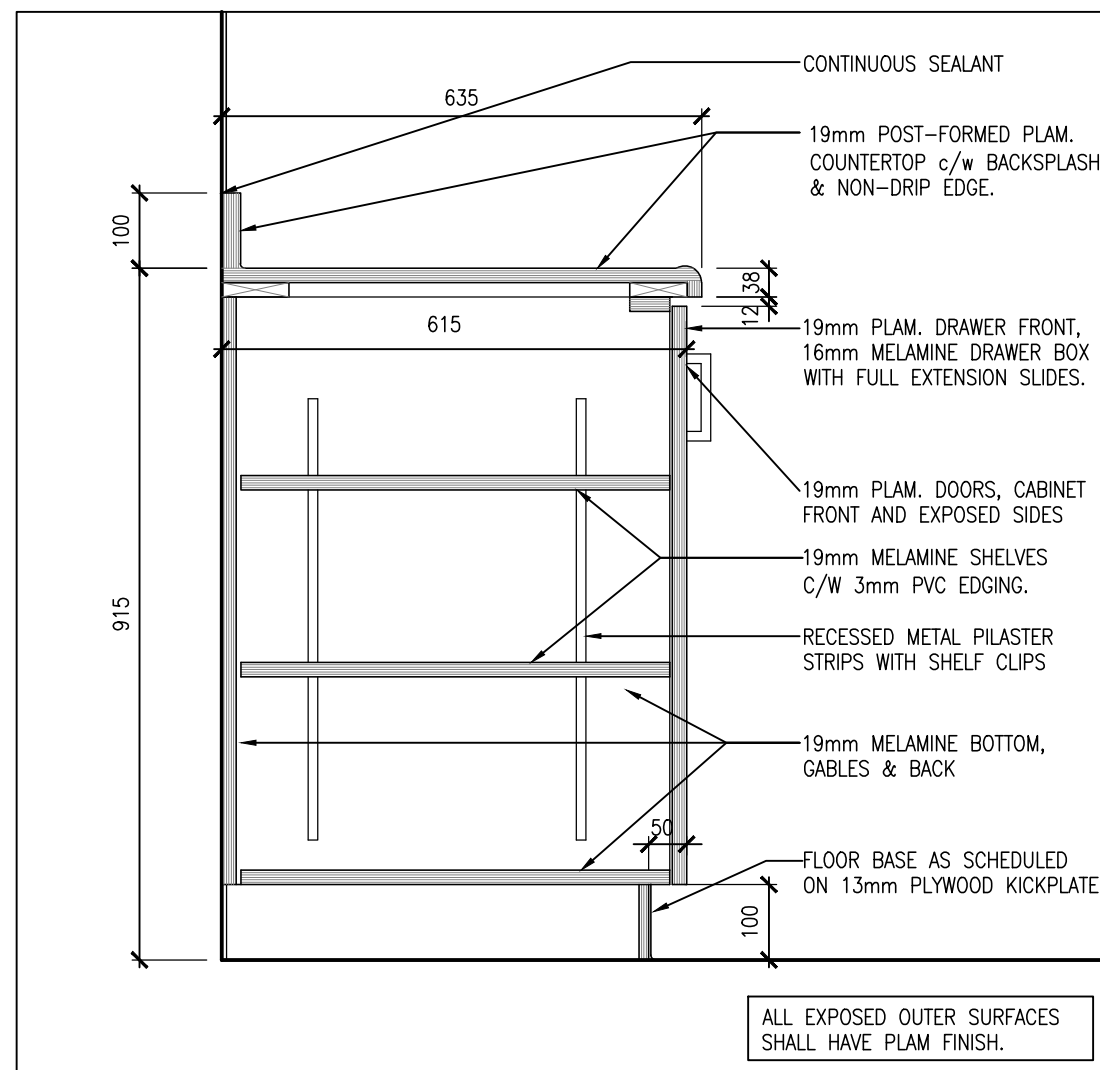
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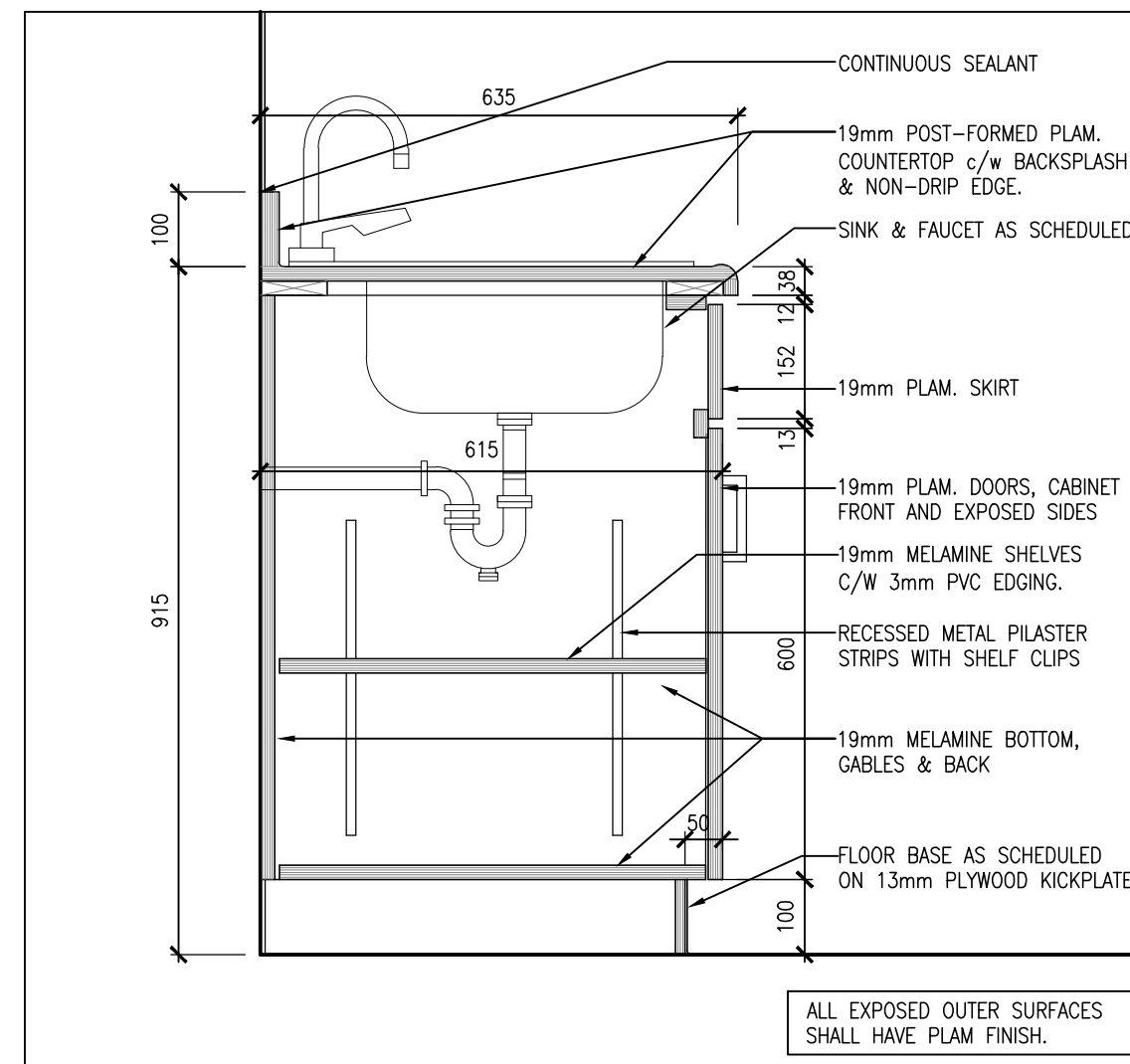
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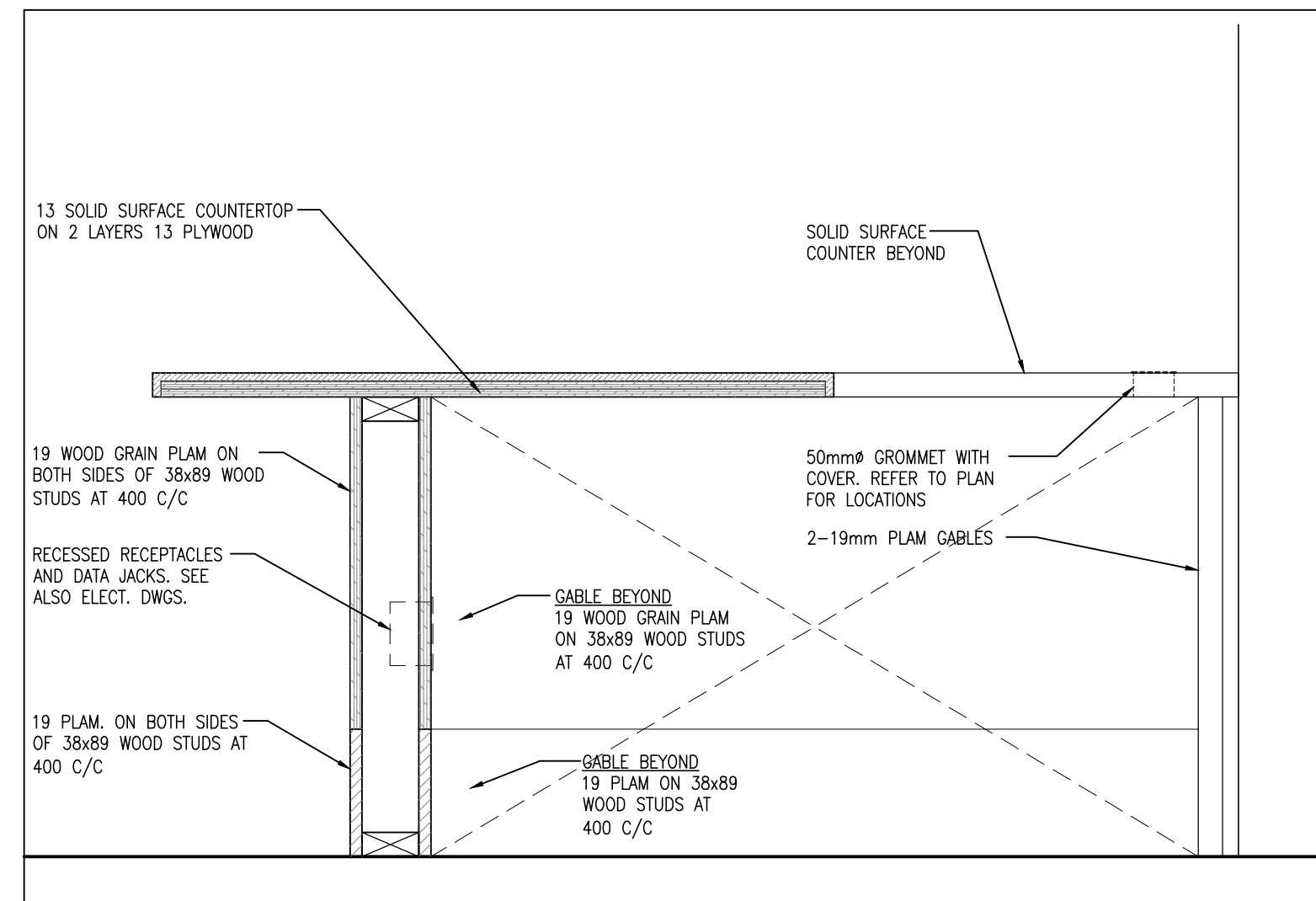
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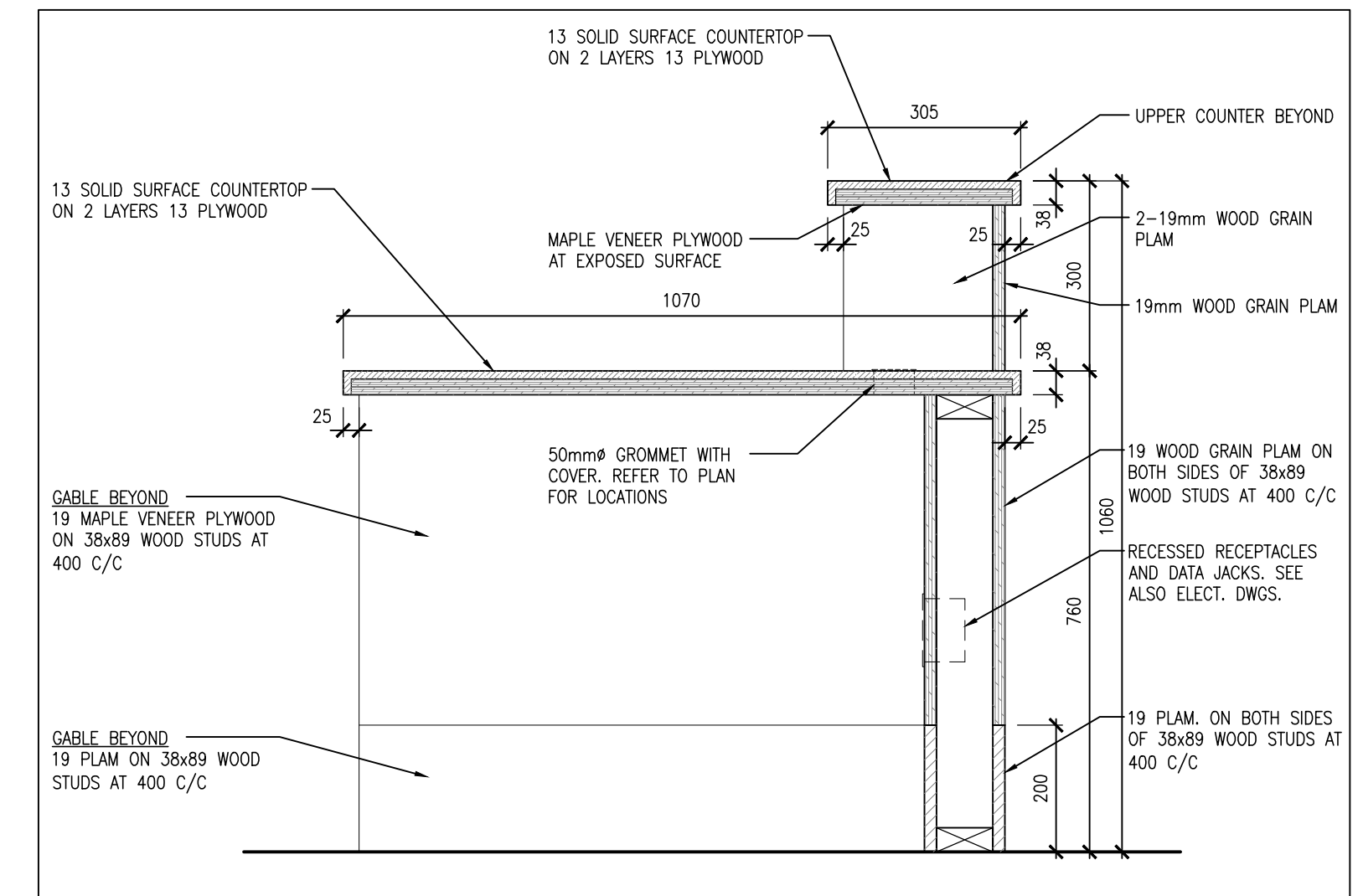
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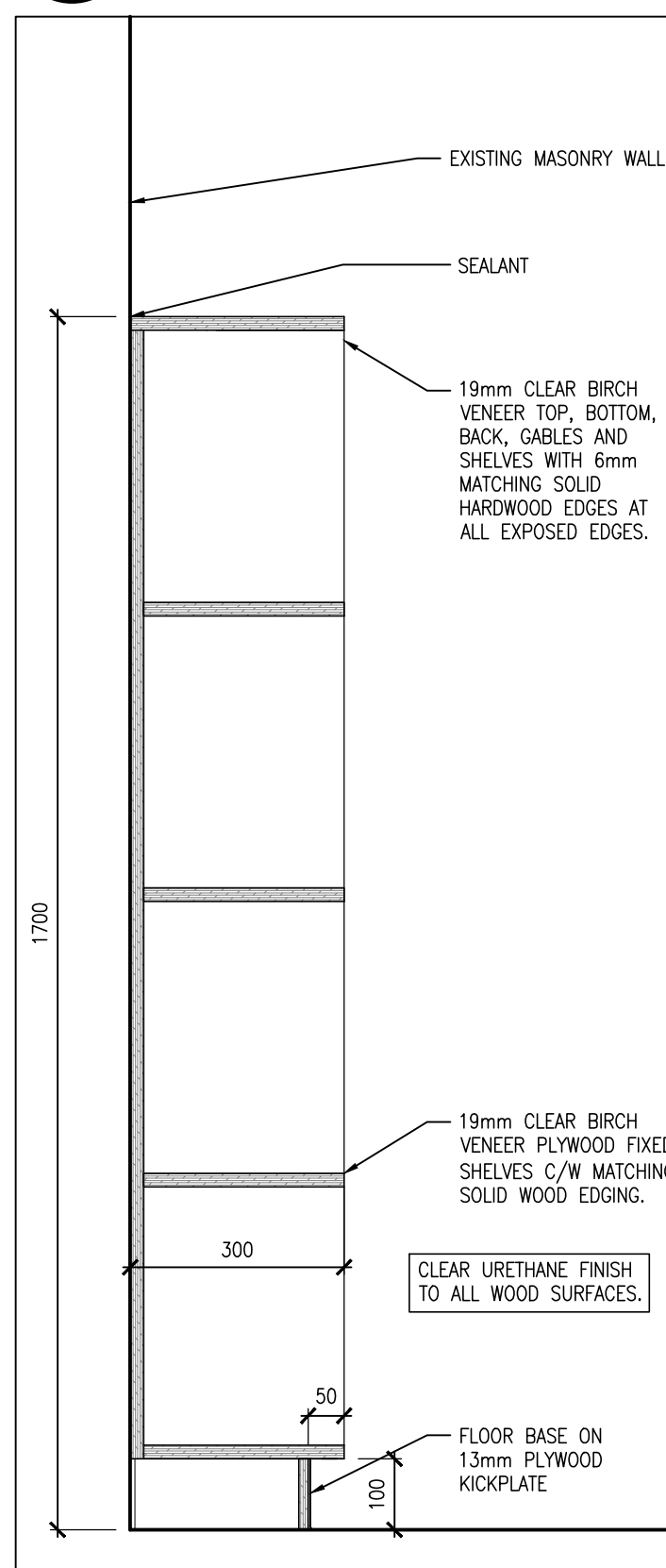
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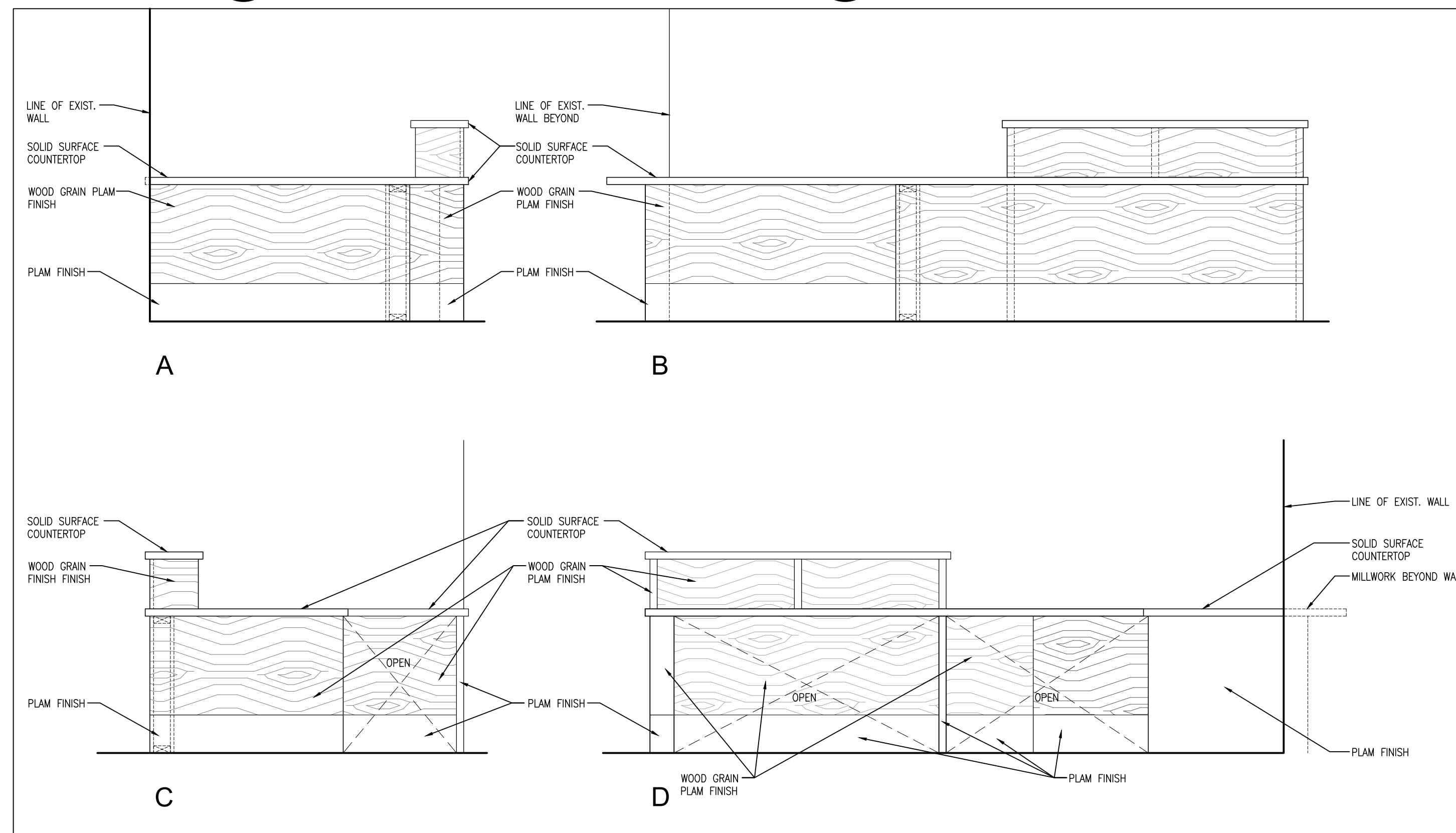
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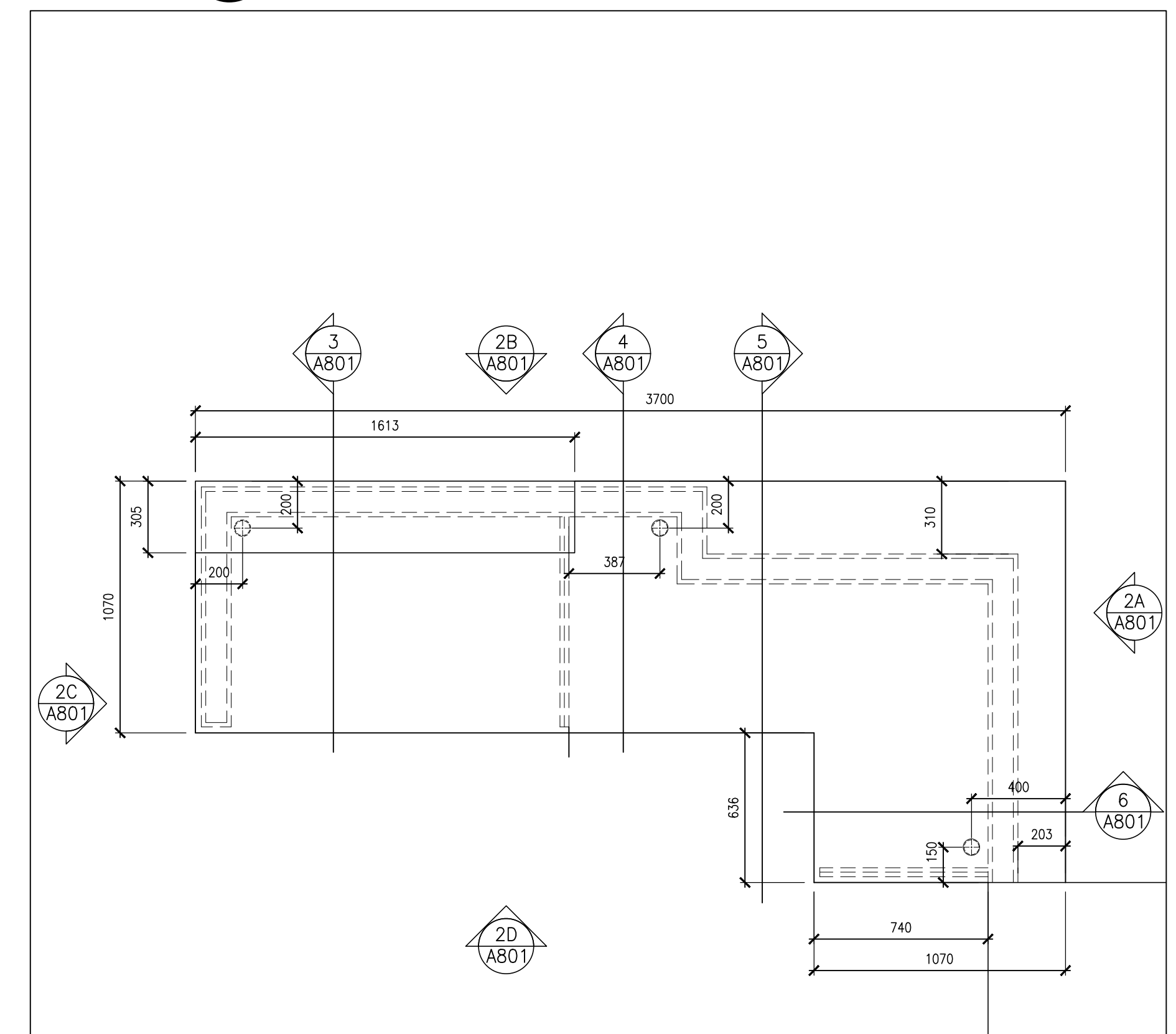
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1:10



11
A801
CUBBIES - SECTION
1:10



2
A801
ML1-ELEVATIONS
1:20



1
A801
ML1-PAN
1:20

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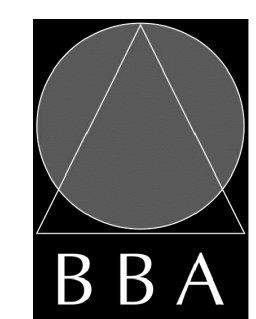
NO.	ISSUES	DATE	BY
1	ISSUED FOR PERMIT & TENDER	MARCH 10, 2025	BBA

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PROJECT:
**RENOVATIONS AT
ECOLE ELEMENTAIRE
FELIX-LECLERC**

50 CELESTINE DRIVE
TORONTO, ON

DRAWING:
**MILLWORK PLAN,
ELEVATIONS & SECTIONS**



**BARRY BRYAN
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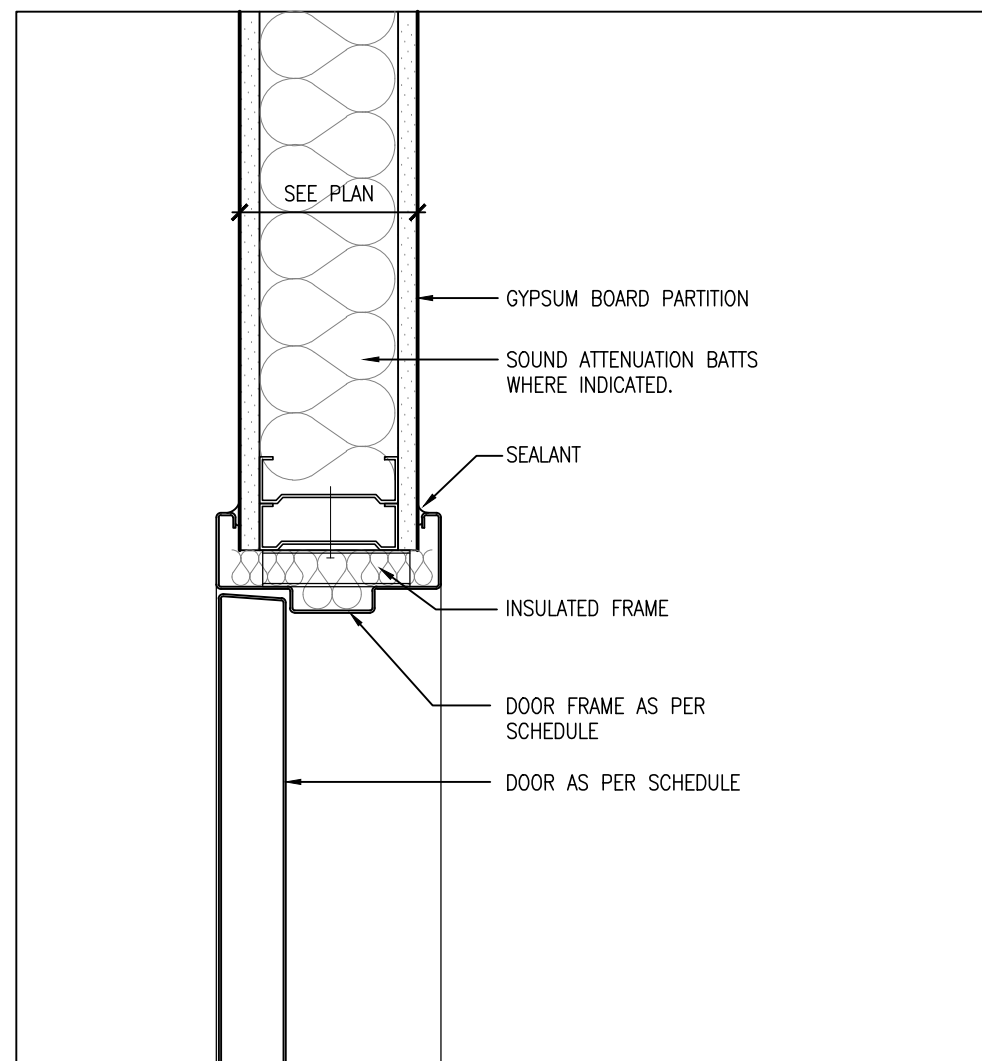
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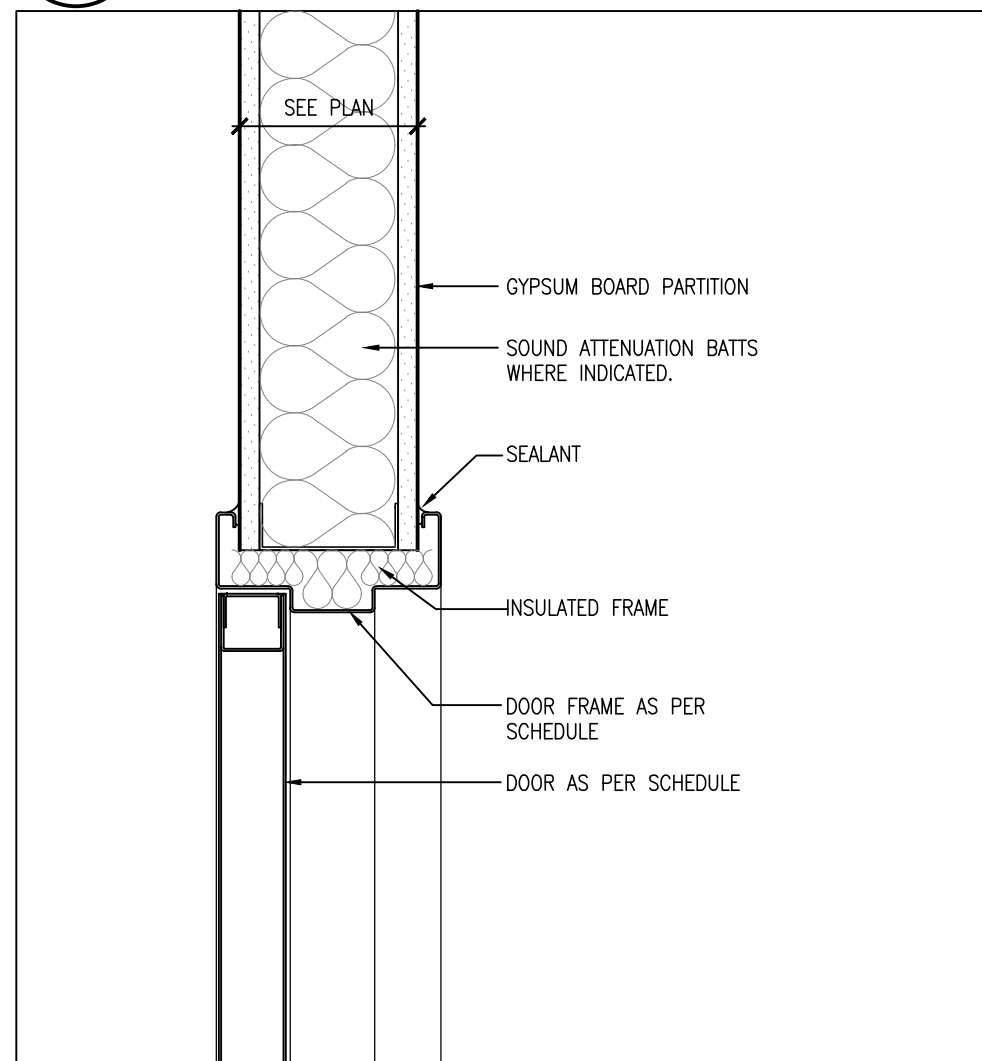
FILE:

PROJECT NO:
24194

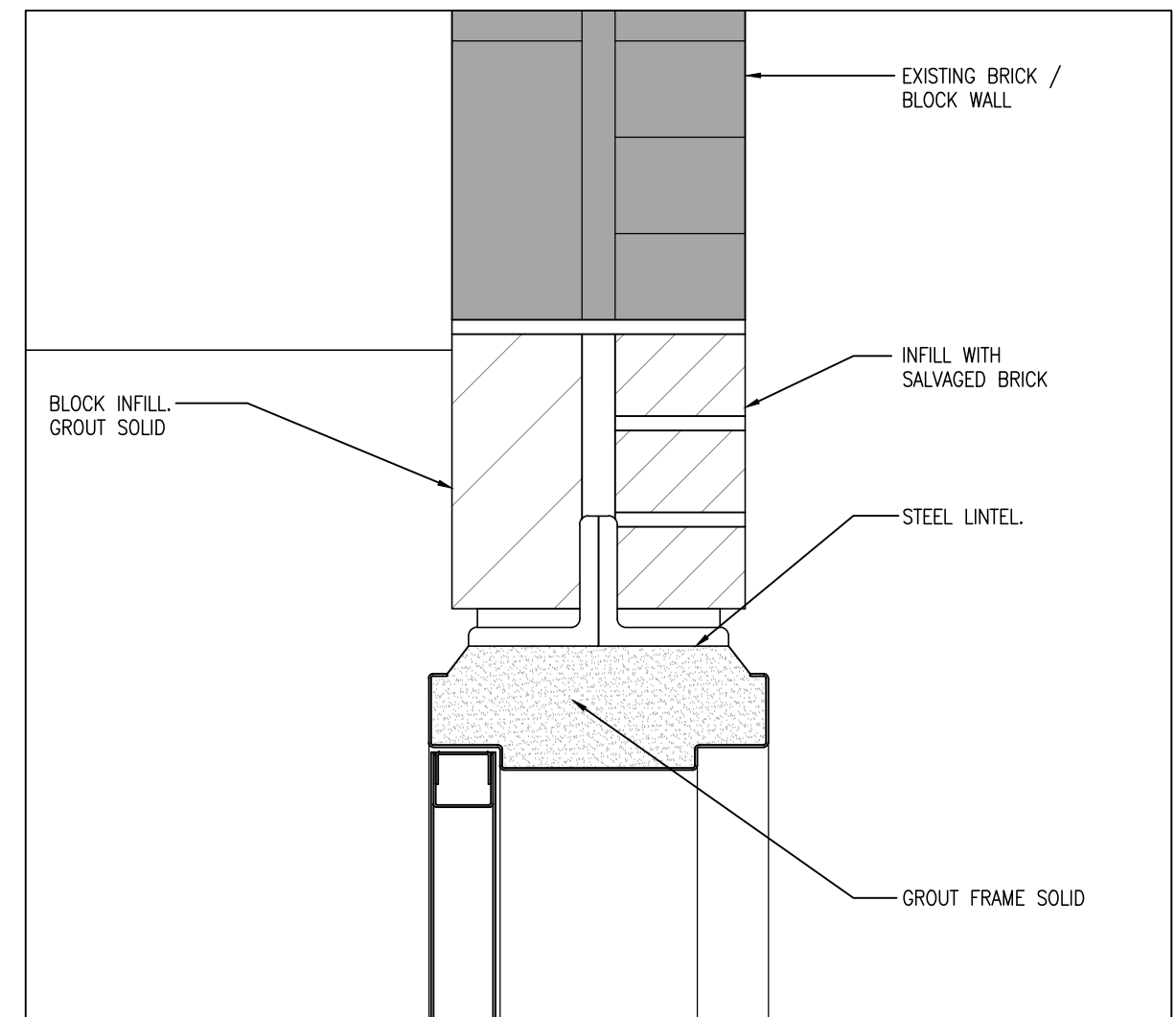
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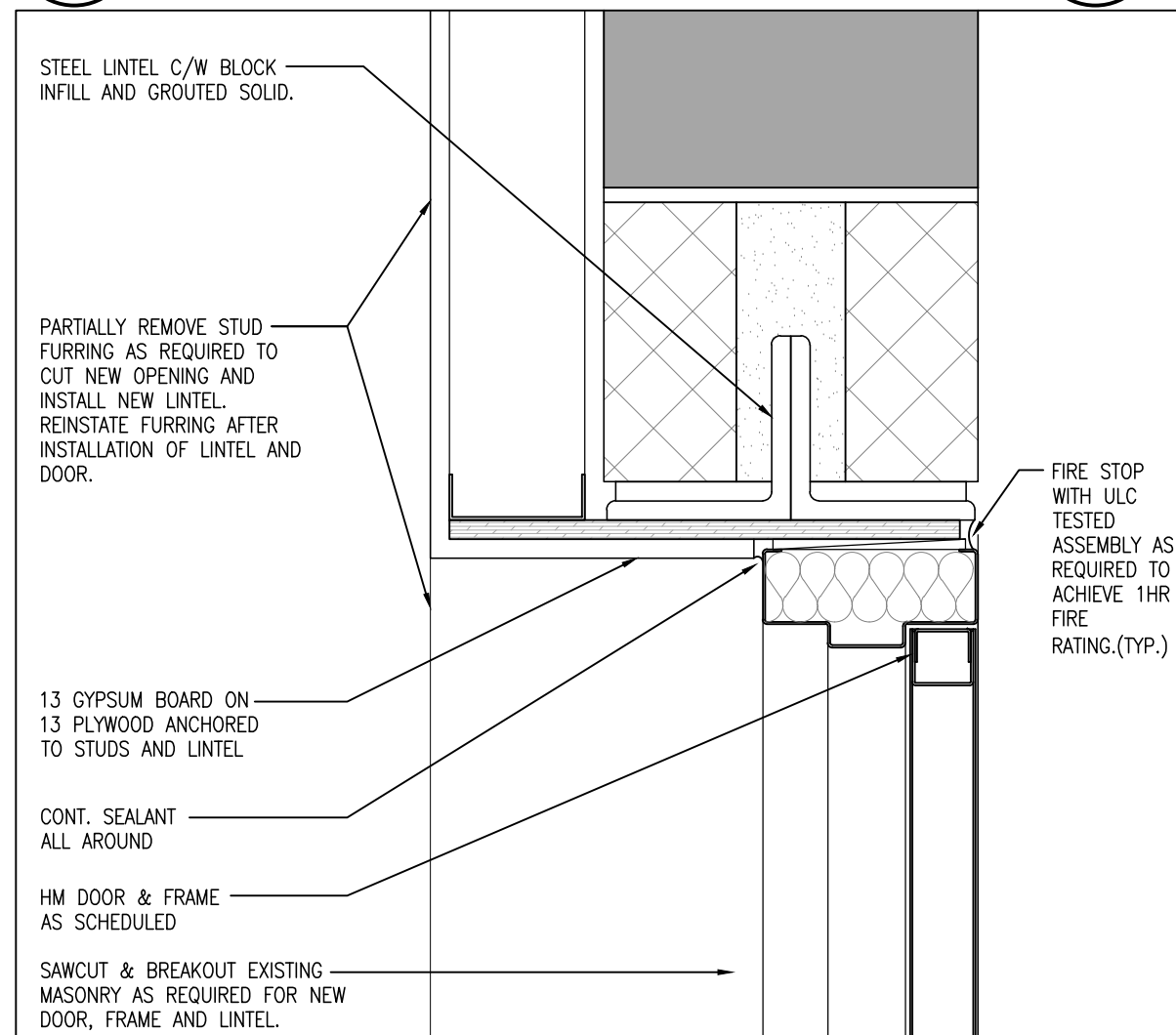
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DETAIL J1
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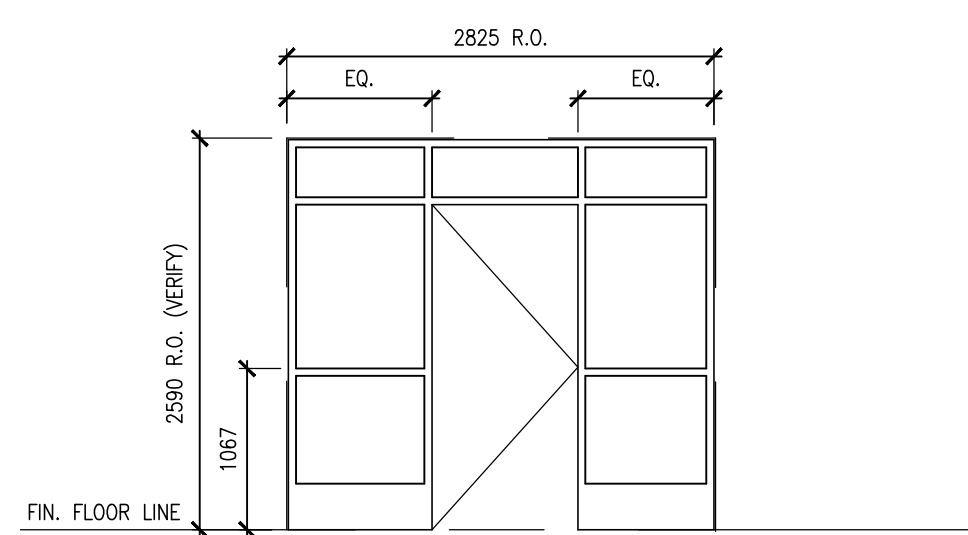
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A901
DETAIL H1
1:5



3
A901
DETAIL H2
1:5



4
A901
DETAIL H3
1:5



SC01A PRESSED STEEL FRAME PAINTED
SCREEN TYPES

- GENERAL NOTES**
1. ALL EXPOSED METAL IN INTERIOR TO BE PAINT FINISH.
 2. UNLESS OTHERWISE INDICATED, ALL WALLS SHALL HAVE PAINT FINISH.
 3. PAINT GYPSUM BOARD WALLS AND BULKHEADS.
 4. ALL EXPOSED DUCTWORK AND PIPING SHALL RECEIVE PAINT FINISH.
 5. REFER TO INTERIOR ELEVATIONS AND FINISH PLANS FOR DETAILS ON EXTENTS AND ADDITIONAL INFORMATION.
 6. REFER TO SPECIFICATION FOR FINISH SCHEDULE.
 7. GLASS PANELS IN DOORS TO COMPLY WITH BARRIER FREE VISIBILITY REQUIREMENTS.
 8. ALUMINUM EXTERIOR DOORS TO HAVE INSULATED FRAMES.
 9. PREPARE DOORS AND FRAMES FOR ELECTRONIC HARDWARE WHERE INDICATED CONDUITS SHALL BE CONCEALED IN FRAMES.
 10. ALL DOORS IN FIRE SEPARATION LOCATIONS SHALL HAVE LATCHING DEVICE.
 11. REFER TO HARDWARE SCHEDULE FOR ADDITIONAL INFORMATION.
 12. ALL NEW DOORS TO COMPLY TO O.B.C. 3.8.3.3.

FINISH ABBREVIATION LEGEND

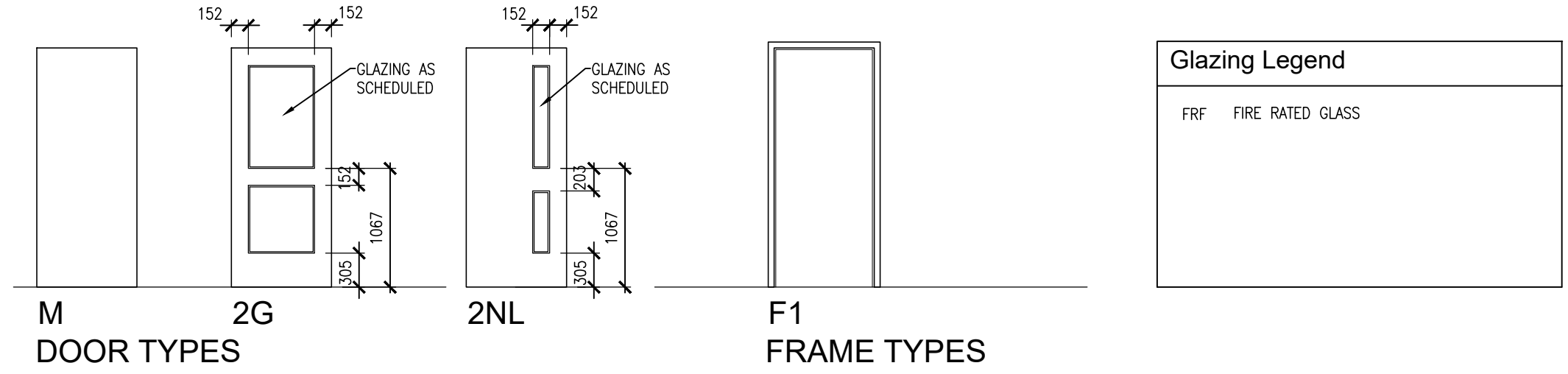
ACP	ACOUSTIC CEILING PANEL
ALUM	ALUMINUM
ANOD	ANODIZED
CB	CONCRETE BLOCK
CONC	CONCRETE
CT	CERAMIC TILE
EXIST	EXISTING
EXP	EXPOSED
FRG	FIRE RATED GLASS
G	GLASS
GB	GYPSUM BOARD
GBM	GYPSUM BOARD, MOISTURE RESISTANT
HM	HOLLOW METAL
IAS	INDOOR ATHLETIC SURFACING
M	METAL
NTS	NOT TO SCALE
P	PAINT
PCT	PORCELAIN CERAMIC TILE
PS	PRESSED STEEL
PREFIN	PREFINISHED
PT	PORCELAIN TILE
URETH	URETHANE
R	RUBBER
SC	SEALED CONCRETE
SCW	SOLID CORE WOOD
SDRF	STATIC DISSIPATIVE RESILIENT FLOORING
SEAL	SEALER
STL	STEEL
STOR	STORAGE
TERR	TERRAZZO
TG	TEMPERED GLASS
TWSI	TACTILE WARNING SURFACE INDICATOR
VCT	VINYL COMPOSITION TILE

ROOM SCHEDULE

NO.	ROOM NAME	FLOOR	BASE	WALLS			CEILING	CEILING HEIGHT	REV.	REMARKS
				NORTH	EAST	SOUTH				
102	CORRIDOR	MAT. EX. --	EX. EX. G	EX. EX.	EX. EX.	EX. EX.	2800			
103	CORRIDOR	MAT. EX. --	EX. EX. G	EX. EX.	EX. EX.	EX. EX.	2800			
104	WAITING	MAT. EX. --	EX. G	EX. EX.	EX. EX.	EX. EX.	2800			
104A	VESTIBULE	MAT. EX. --	EX. EX. G	EX. EX.	EX. EX.	EX. EX.	2800			
104B	ADMIN OFFICE	MAT. EX. --	EX. EX. G	EX. EX.	EX. EX.	EX. EX.	2800			
104C	CORRIDOR	MAT. EX. --	EX. EX. G	EX. EX.	EX. EX.	EX. EX.	2800			
104D	PRINCIPAL	MAT. EX. --	EX. EX. G	EX. EX.	EX. EX.	EX. EX.	2800			
104E	COPY ROOM	MAT. EX. --	EX. EX. G	EX. EX.	EX. EX.	EX. EX.	2800			
104F	STORAGE	MAT. EX. --	EX. EX. G	EX. EX.	EX. EX.	EX. EX.	2800			
104G	WASHROOM	MAT. EX. --	EX. EX. G	EX. EX.	EX. EX.	EX. EX.	2400			
104H	HEALTH ROOM	MAT. EX. --	EX. EX. G	EX. EX.	EX. EX.	EX. EX.	2800			
123	WASHROOM	MAT. EX. --	EX. EX. G	EX. EX.	EX. EX.	EX. EX.	2400			
124	WASHROOM	MAT. EX. --	EX. EX. G	EX. EX.	EX. EX.	EX. EX.	2400			
125	STAFF ROOM	MAT. EX. --	EX. EX. G	EX. EX.	EX. EX.	EX. EX.	2800			
125A	STAFF KITCHEN	MAT. EX. --	EX. EX. G	EX. EX.	EX. EX.	EX. EX.	2800			
131	CLASSROOM	MAT. EX. --	EX. EX. G	EX. EX.	EX. EX.	EX. EX.	2800			
132	CLASSROOM	MAT. EX. --	EX. EX. G	EX. EX.	EX. EX.	EX. EX.	2800			
133	CLASSROOM	MAT. EX. --	EX. EX. G	EX. EX.	EX. EX.	EX. EX.	2800			
134	CLASSROOM	MAT. EX. --	EX. EX. G	EX. EX.	EX. EX.	EX. EX.	2800			
137	OFFICE	MAT. EX. --	EX. EX. G	EX. EX.	EX. EX.	EX. EX.	2800			
138	CLASSROOM	MAT. EX. --	EX. EX. G	EX. EX.	EX. EX.	EX. EX.	2800			
139	LIBRARY	MAT. EX. --	EX. EX. G	EX. EX.	EX. EX.	EX. EX.	2800			
140	STUDY ROOM	MAT. EX. --	EX. EX. G	EX. EX.	EX. EX.	EX. EX.	2800			
141	CLASSROOM	MAT. EX. --	EX. EX. G	EX. EX.	EX. EX.	EX. EX.	2800			
142	CLASSROOM	MAT. EX. --	EX. EX. G	EX. EX.	EX. EX.	EX. EX.	2800			

DOOR AND FRAME SCHEDULE

NO.	SIZE AND THICKNESS	DOOR	FRAME	FIRE RATING	DOOR HARDWARE										REMARKS			
					HANDLE	THRESHOLD	ELCLOS	DOORSTOP	STOP	DOORSTOP	DOORSTOP	DOORSTOP	DOORSTOP	DOORSTOP				
104	965x2150x45	2G	HM	PAINT	FRF	SC01												SEE DETAILS 1/A601 & 2/A601
104A	965x2150x45	2G	SCW	PAINT		F1												SEE DETAILS 9/A601
104D	965x2150x45	M	SCW	URETH.		F1	H1	J1	PS	PAINT								
104E	965x2150x45	M	SCW	URETH.		F1	H1	J1	PS	PAINT								
104F	965x2150x45	M	SCW	URETH.		F1	H1	J1	PS	PAINT								
104G	965x2150x45	M	SCW	URETH.		F1	H1	J1	PS	PAINT								
104H	965x2150x45	M	SCW	URETH.		F1	H1	J1	PS	PAINT								REUSE EXISTING DOOR FRAME
123	800x2150x45	M	SCW	URETH.		F1	H2	5/A601	PS	PAINT								
124	800x2150x45	M	SCW	URETH.		F1	H2	5/A601	PS	PAINT								
125A	965x2150x45	2NL	HM	PAINT	FRF	F1	H3	3/A601	PS	PAINT	45 MIN.							



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NO.	ISSUES	DATE	BY
1	ISSUED FOR PERMIT & TENDER	MARCH 10, 2025	BBA

NO.	REVISIONS	DATE	BY
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PROJECT:
**RENOVATIONS AT
ECOLE ELEMENTAIRE
FELIX-LECLERC**
50 CELESTINE DRIVE
TORONTO, ON

DRAWING:
SCHEDULES



**BARRY BRYAN
ASSOCIATES**
Architects
Engineers
Project Managers

DESIGN BY:
WW
DRAWN BY:
LQ/JA/CM
CHECKED BY:

DATE:
JAN. 2025
SCALE:
N.T.S.

PROJECT NO:
24194

DRAWING NO:
A901

GENERAL

1. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST EDITIONS OF ALL RELEVANT CODES AND STANDARDS.
2. CONFORM TO OWNER'S GENERAL SPECIFICATIONS INCLUDING ALL SAFETY REQUIREMENTS.
3. SITE VERIFY ALL DIMENSIONS AND LEVELS.
4. KEEP THE SITE THROUGHOUT THE WORK AREA IN A CLEAN AND ORDERLY CONDITION AT ALL TIMES TO THE SATISFACTION OF THE OWNER.
5. ALL STRUCTURAL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH OTHER CONSULTANTS DRAWINGS.

TEMPORARY WORKS

1. THE CONTRACTOR SHALL DESIGN, PROVIDE, ERECT, MAINTAIN REMOVE AND ASSUME FULL AND SOLE RESPONSIBILITY FOR ALL TEMPORARY WORKS REQUIRED FOR THE SAFE AND COMPLETE EXECUTION OF THE WORKS.
2. IN THE EXECUTION OF THE TEMPORARY WORKS AND FOR THE DURATION OF THE CONTRACT, THE CONTRACTOR SHALL MAKE ADEQUATE PROVISION FOR ALL LIKELY CONSTRUCTION LOADING AND PROVIDE SUFFICIENT BRACING AND PROPS TO KEEP THE WORKS IN PLUMB AND ALIGNMENT AND FREE FROM EXCESSIVE DEFLECTION.
3. ACCESS OF HEAVY CONSTRUCTION EQUIPMENT AND ACCUMULATION OF CONSTRUCTION MATERIALS ON THE FLOORS ARE NOT PERMITTED, UNLESS SUCH HAVE BEEN CATERED FOR IN THE CONTRACTOR'S TEMPORARY WORK DESIGN TO THE SATISFACTION OF THE ARCHITECT.
4. SUBMIT SHOP DRAWINGS FOR ALL TEMPORARY WORKS FOR REVIEW BEFORE FABRICATION COMMENCES. SHOP DRAWINGS SHALL BE SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OF ONTARIO.

SLAB ON GRADE

1. CAST INFILL SLAB ON GRADE ON EXISTING GRANULAR SUBGRADE MATERIAL. PROJECT GEOTECHNICAL CONSULTANT TO REVIEW AND APPROVE EXISTING MATERIAL BASED ON LISTED ASSUMED SUBGRADE MODULUS, COMPACTON, ETC.
2. MAINTAIN MINIMUM SPECIFIED THICKNESS AT ALL DEPRESSIONS AND CHANGES IN ELEVATIONS.
3. REFER TO ARCHITECTURAL DRAWINGS FOR EXTENT AND LOCATION OF ALL FINISHES, DEPRESSIONS AND SLOPES.
4. COORDINATE OTHER AREAS REQUIRING SLAB REMOVAL / REPAIR WITH MECHANICAL AND ELECTRICAL DRAWINGS.

STRUCTURAL STEEL

1. ALL STRUCTURAL STEEL HSS AND W SECTIONS TO BE G40.21M-350W CLASS C. ALL OTHERS TO BE G40.21M-300W.
2. ALL BEAM CONNECTIONS TO BE STANDARD SHEAR CONNECTIONS IN COMPLIANCE WITH CSC, UNLESS NOTED OTHERWISE.
3. SUBMIT SHOP DRAWINGS FOR STRUCTURAL STEEL COMPONENTS, CONNECTIONS AND DETAILS. SHOP DRAWINGS SHALL BE SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE PROVINCE OF ONTARIO.
4. ALL ERECTION BOLTS SHALL BE ASTM GRADE A325 MINIMUM, AND SHALL BE DESIGNED BY STEEL FABRICATOR'S ENGINEER FOR TRANSFER OF ALL LOADS.
5. BOLTED CONNECTIONS SHALL HAVE A MINIMUM OF TWO BOLTS IN EACH CONNECTION PIECE AND DESIGNED AS BEARING CONNECTIONS U.L.O.
6. FABRICATOR'S ENGINEER SHALL DESIGN TOP PLATES AND THEIR CONNECTIONS TO FULLY TRANSFER VERTICAL AND HORIZONTAL LOADS AS WELL AS MOMENTS WHEN REQUIRED PER CSC STANDARDS.
7. FABRICATION, ERECTION AND WORKMANSHIP SHALL CONFORM TO CSA S16.1.
8. ALL WELDING SHALL CONFORM TO CSA W59 AND SHALL BE PERFORMED BY A WELDER QUALIFIED UNDER CSA W47.
9. ALL STRUCTURAL STEEL SHALL BE PAINTED WITH ONE SHOP APPLIED COAT OF PRIMER. SPOT PRIME ALL WELDED AREAS.
10. REMOVE PAINT FILM FROM ALL STEEL SURFACES TO BE WELDED. SPOT PRIME AS REQUIRED.
11. ALL WELDED CONNECTIONS SHALL BE WITH E49XX ELECTRODES.
12. DO NOT CUT OR CORE ANY OPENINGS IN ANY STRUCTURAL STEEL MEMBERS WITHOUT PRIOR APPROVAL FROM THE STRUCTURAL ENGINEER.
13. WHERE A STRUCTURAL STEEL SHAPE SHOWN ON THE DRAWINGS IS UNAVAILABLE, A SHAPE OF EQUAL OR GREATER SECTION PROPERTIES AND STRUCTURAL CAPACITY SHALL BE SUBSTITUTED, UPON APPROVAL BY OWNER AND CONSULTANT AT NO EXTRA COST.

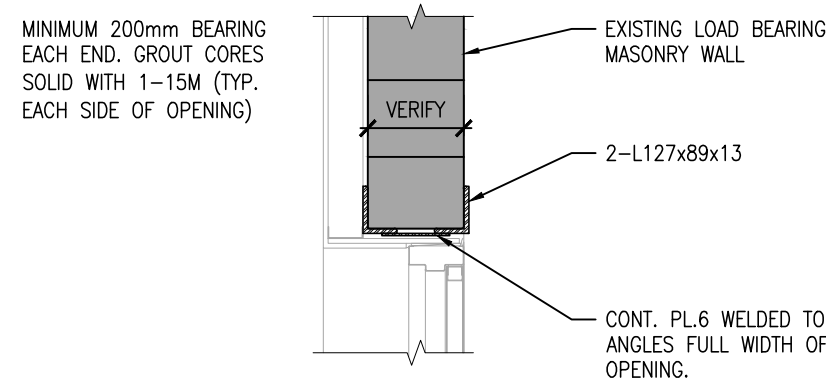
DEMOLITION NOTES

1. PROVIDE PROTECTION AS REQUIRED TO PREVENT DAMAGE TO THE EXISTING STRUCTURE AND/OR ADJACENT EQUIPMENT. PROTECT ALL EXISTING FINISHES, FRAMES AND PROPERTY.
2. SAW CUT, REMOVE AND DISPOSE OF EXISTING DEMOLISHED MATERIALS OFF-SITE, AS REQUIRED TO COMPLETE THE WORK. ENSURE ALL EXISTING CONCRETE TO BE DEMOLISHED IS SCANNED TO IDENTIFY THE PRESENCE OF ANY EMBEDDED CONDUITS, SERVICES, ETC. NOTIFY BBA OF ANY FINDINGS. REMOVAL OF ALL ACM IS BY OTHERS.
3. KEEP THE WORK AND STAGING AREAS CLEAN AND ORDERLY AT ALL TIMES AND FREE FROM RUBBLE AND DEBRIS.
4. NOTIFY CONSULTANT OF ANY LOAD BEARING MEMBERS OR ASSEMBLIES DISCOVERED OR IDENTIFIED DURING WORK WITH EXCESSIVE DETERIORATION BEYOND WHAT IS NOT INDICATED ON THE DRAWINGS. DO NOT PROCEED WITH REMOVAL WITHOUT PRIOR REVIEW BY THE CONSULTING STRUCTURAL ENGINEER.
5. ALL BUILDING MATERIALS TO BE REMOVED FROM THE BUILDING SHALL BECOME THE PROPERTY OF THE CONTRACTOR UNLESS SPECIFIED OTHERWISE AND SHALL BE REMOVED FROM THE SITE.
6. COVER ALL LOADED TRUCKS LEAVING THE DEMOLITION SITE.
7. CONTRACTOR SHALL KEEP CLEAR AND NOT INHIBIT THE USE OF BUILDING FIRE ROUTE AND ALL HYDRANTS DURING THE ENTIRE DEMOLITION WORK.
8. REPORT ANY DOUBTFUL UNFORESEEN AND/OR UNEXPECTED SITE CONDITIONS TO THE ENGINEER PRIOR TO PROCEEDING.
9. ALL NEW SERVICES, PIPING, ETC. SHOULD UTILIZE EXISTING CHASES AND VERTICAL ACCESS. SHOULD NEW PENETRATIONS THROUGH EXISTING SUSPENDED SLAB ON GRADE BE REQUIRED, NOTIFY STRUCTURAL CONSULTANT FOR REVIEW PRIOR TO EXECUTING WORK.

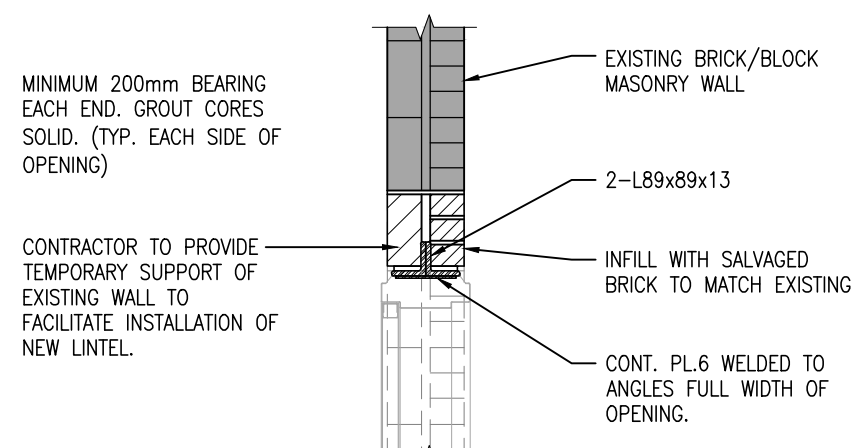
DESIGN LOADS

ROOF LOADS:
 SNOW LOAD, $S_s = 1.1 \text{ kPa}$, $S_r = 0.4 \text{ kPa}$, $S_e = 1.28 \text{ kPa}$
 DEAD LOAD:
 5.59 kPa (ROOF SLABS)
 0.25 kPa (MECH. ALLOWANCE)
 0.20 kPa (CEILING)
 0.20 kPa (ROOFING)
 = 6.74 kPa

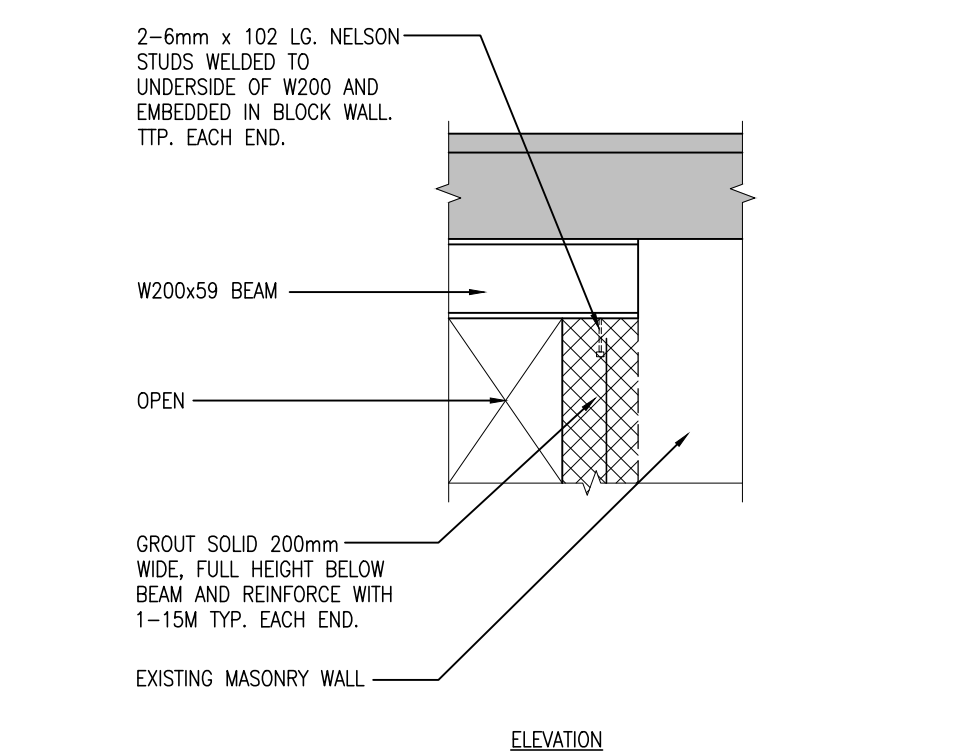
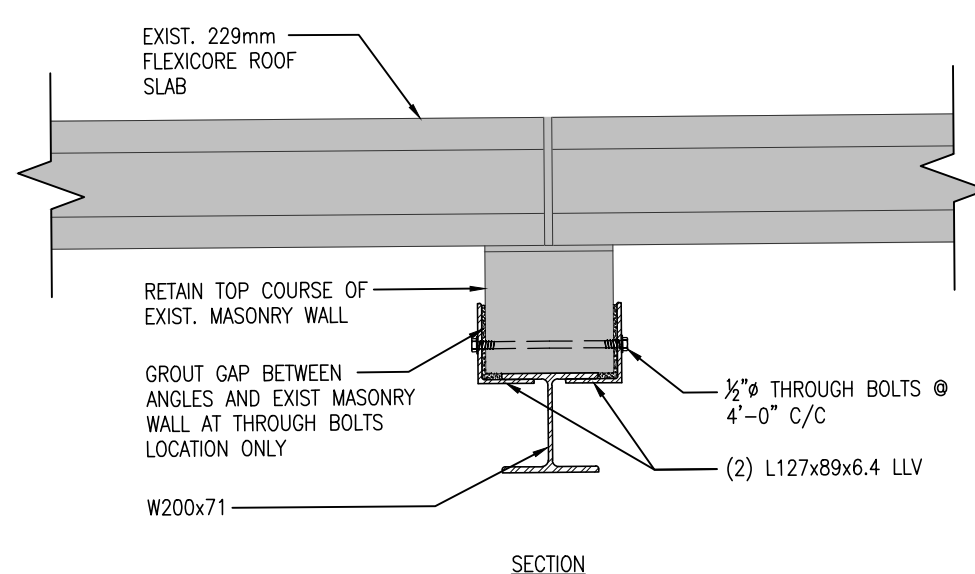
SEE PLAN FOR ACCUMULATION. SNOW ACCUMULATION HAS BEEN CONSIDERED IN THIS DESIGN FOR THE MODIFICATIONS BEING MADE TO THE STRUCTURE ONLY.



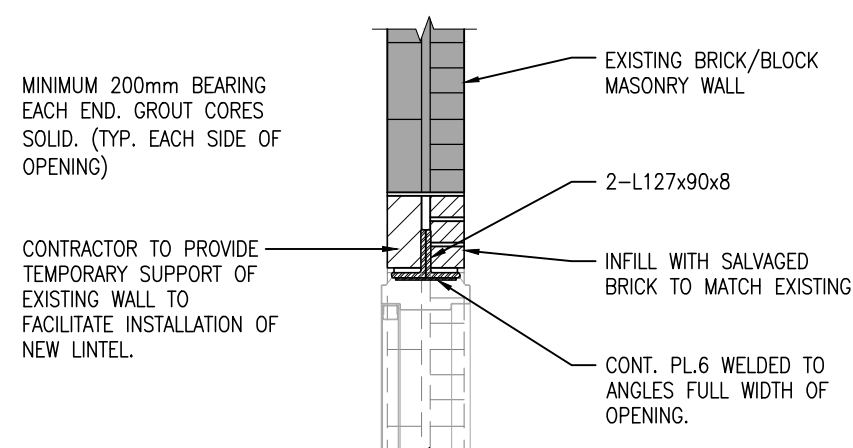
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S201 1:20



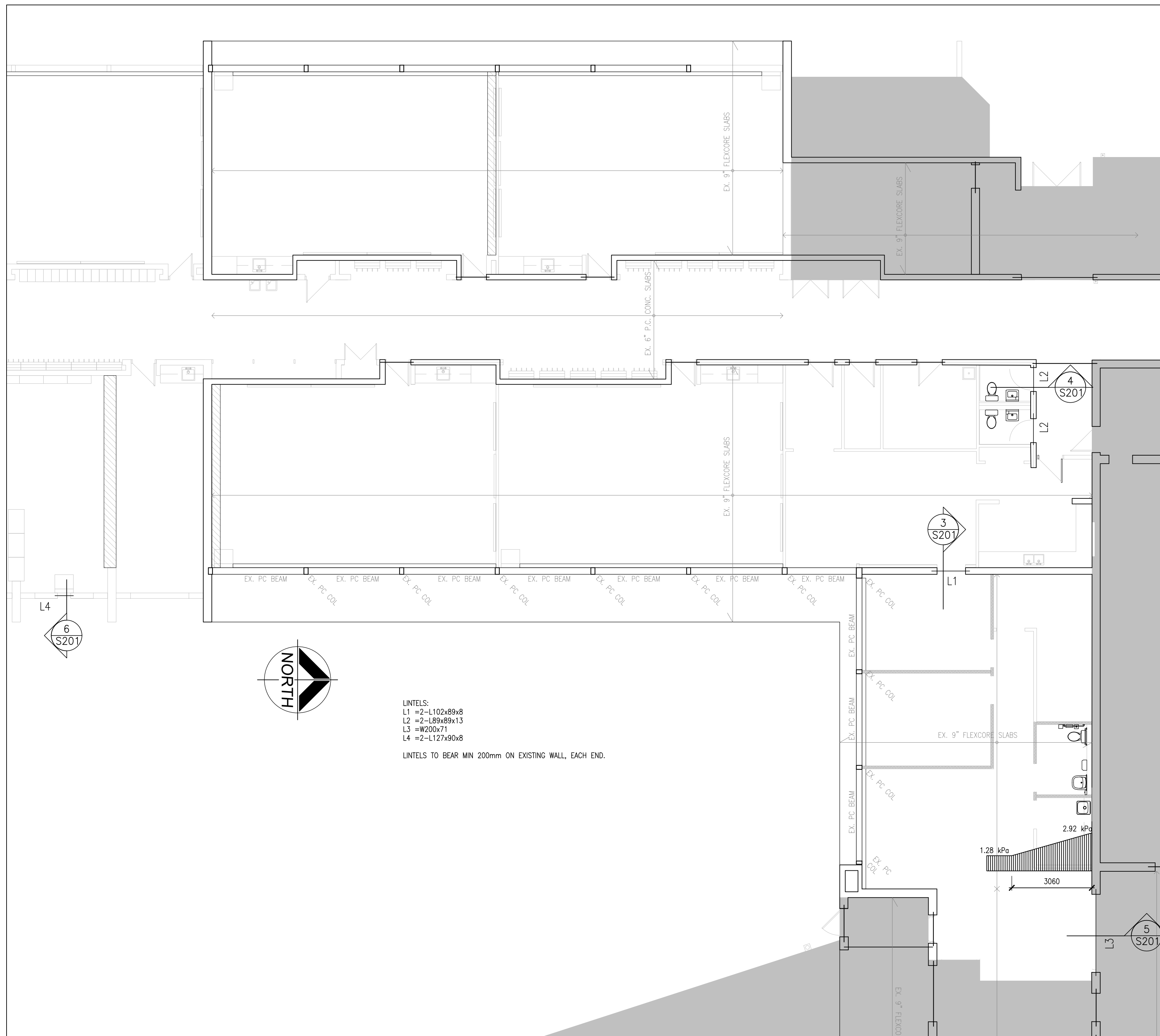
4 LINTEL SECTION
S201 1:20



5 LINTEL SECTION & ELEVATION
S201 1:20



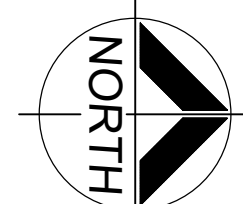
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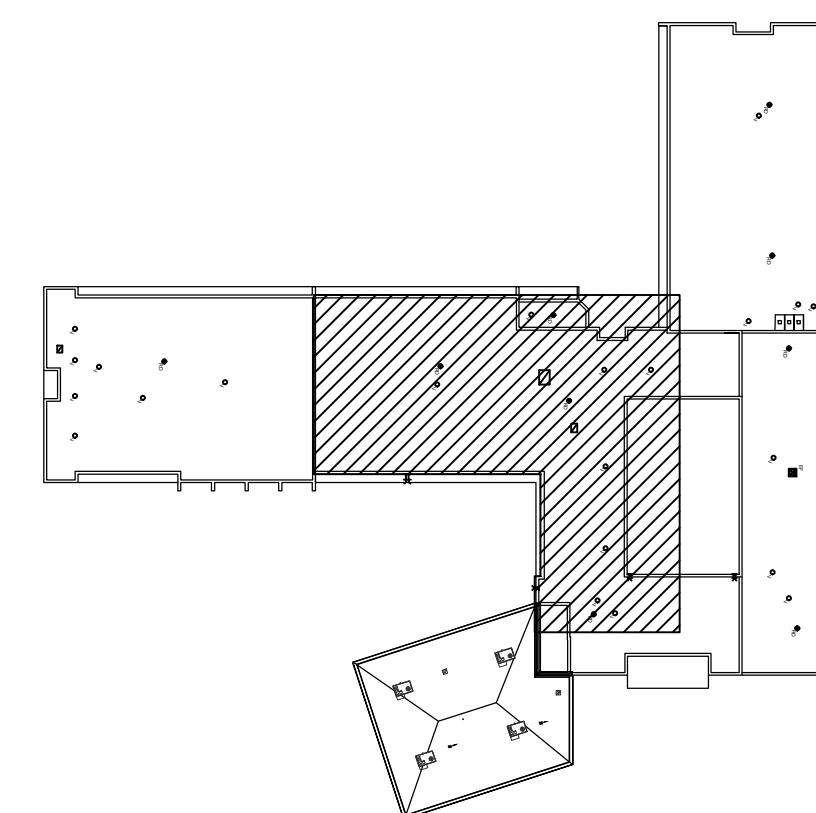
2 PART ROOF FRAMING PLAN
S201 1:100

LINTELS:
 L1 = 2-L102x89x8
 L2 = 2-L89x89x13
 L3 = W200x71
 L4 = 2-L127x90x8

LINTELS TO BEAR MIN 200mm ON EXISTING WALL, EACH END.



1 KEY PLAN
S201 N.T.S.



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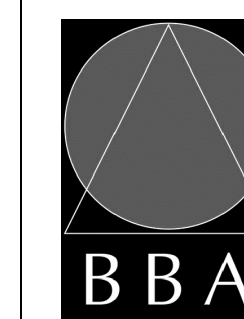
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1	ISSUED FOR PERMIT & TENDER	MARCH 10, 2024	BBA

NO.	REVISIONS	DATE	BY
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PROJECT:
**RENOVATIONS AT
 ECOLE ELEMENTAIRE
 FELIX-LECLERC**

50 CELESTINE DRIVE
 TORONTO, ON

DRAWING:
**GENERAL NOTES & PART
 ROOF FRAMING PLAN**



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 SL
 DRAWN BY:
 CM
 CHECKED BY:
 DATE:
 FEB. 2025
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 1:100
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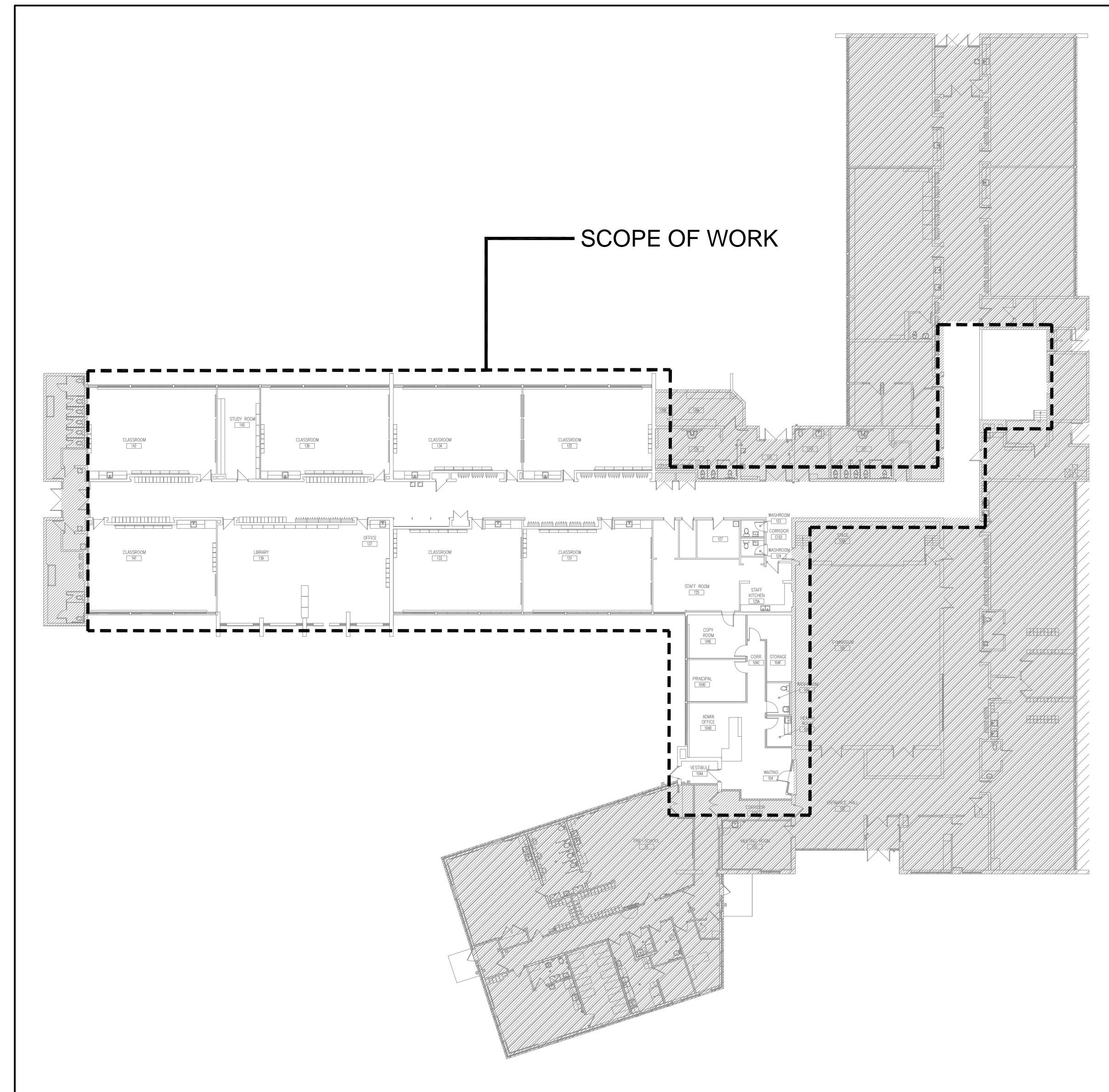
PROJECT NO:
24194

DRAWING NO:
S201

RENOVATIONS AT ECOLE ELEMENTAIRE FELIX-LECLERC

50 CELESTINE DRIVE TORONTO, ON

MECHANICAL DRAWINGS



1
M-0
KEYPLAN
NTS

DRAWING LIST	
DWG. NO.	DRAWING NAME
M-0	TITLE SHEET
M-1.1	MECHANICAL SPECIFICATIONS I
M-1.2	MECHANICAL SPECIFICATIONS II
M-1.3	MECHANICAL LEGEND
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M-2.1	PART GROUND FLOOR DEMOLITION PLAN - HVAC
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M-3.1	PART GROUND FLOOR DEMOLITION PLAN - PLUMBING & DRAINAGE
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NO.	ISSUES	DATE	BY
1	ISSUED FOR REVIEW	FEB. 21 2025	RC
2	ISSUED FOR PERMIT & TENDER	MAR. 17 2025	SW

NO.	REVISIONS	DATE	BY
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PROJECT:
**RENOVATIONS AT
 ECOLE ELEMENTAIRE
 FELIX-LECLERC**
 50 CELESTINE DRIVE
 TORONTO, ON

DRAWING:
TITLE SHEET

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DESIGN BY: JH	DOC CONTROL DATE:
DRAWN BY: RC	% COMPLETE:
CHECKED BY: JH	NOTAL:
DATE: JAN 2025	SCALE: AS SHOWN
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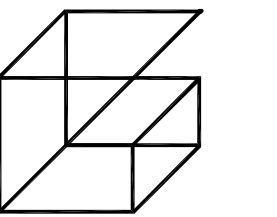
PROJECT NO: **24-182** DRAWING NO: **M-0**

HVAC LEGEND	
SYMBOL	DESCRIPTION
	EXISTING DUCTWORK/EQUIPMENT
	EXISTING DUCTWORK/EQUIPMENT TO BE REMOVED
	NEW RIGID DUCTWORK
	EXISTING FLEXIBLE DUCTWORK
	NEW FLEXIBLE DUCTWORK
	SUPPLY AIR DUCTWORK UP
	SUPPLY AIR DUCTWORK DOWN
	RETURN AIR DUCTWORK UP
	RETURN AIR DUCTWORK DOWN
S/A	'SUPPLY AIR'
R/A	'RETURN AIR'
E/A	'EXHAUST AIR'
O/A	'OUTSIDE AIR'
T/A	'TRANSFER AIR'
F/D	'FIRE DAMPER'
L BD	'BALANCING DAMPER'
BDD	'BACKDRAFT DAMPER'
M/D	'MOTORIZED DAMPER'
	SQUARE SUPPLY AIR DIFFUSER
	SUPPLY AIR GRILLE
	RETURN AIR GRILLE
	SLOT DIFFUSER
	THERMOSTAT
	HUMIDISTAT
	CARBON DIOXIDE SENSOR
	CARBON MONOXIDE DETECTOR
	ZONE SENSOR
	WALL SWITCH
A-6* 150CFM	DIFF TYPE/SIZE AIR CAPACITY
TYP.	'TYPICAL'
X-XX	EQUIPMENT TAG
CTE	'CONNECT TO EXISTING'
	FAN-POWERED TERMINAL UNIT
	VAV TERMINAL UNIT
	CABINET EXHAUST FAN
	INLINE EXHAUST FAN
	ELECTRIC DUCT HEATER
	CIRCULAR EXHAUST FAN
	BASEBOARD HEATER
	FORCE FLOW HEATER
	UNIT HEATER
	DUCTWORK WITH ACOUSTIC OR THERMAL INSULATION (SEE SPECS.)
	DUCTWORK WITH ACOUSTIC INSULATION
	DUCTWORK WITH THERMAL INSULATION
	CONTINUATION OF DUCTWORK/PIPING
	EXISTING CONTROL WIRING
	NEW CONTROL WIRING
	SPIN-ON DUCT CONNECTION WITH BALANCING DAMPER
	DRAWING NOTE
	ROUND SUPPLY AIR DIFFUSER
	LOUVERED FACE SUPPLY/RETURN GRILLE
CAP	CAP ON DUCTWORK
	BRANCH ON DUCTWORK

PIPING LEGEND	
SYMBOL	DESCRIPTION
EX.HWS	EXISTING HEATING WATER SUPPLY
EX.HWR	EXISTING HEATING WATER RETURN
HWS	HEATING WATER SUPPLY
HWR	HEATING WATER RETURN
EX.CHWS	EXISTING CHILLED WATER SUPPLY
EX.CHWR	EXISTING CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CHWR	CHILLED WATER RETURN
EX.CWS	EXISTING CONDENSER WATER SUPPLY
EX.CWR	EXISTING CONDENSER WATER RETURN
CWS	CONDENSER WATER SUPPLY
CWR	CONDENSER WATER RETURN
REFL	REFRIGERANT LIQUID LINE
REFS	REFRIGERANT SUCTION LINE
	3-PORT CONTROL VALVE
	2-WAY CONTROL VALVE
	GATE VALVE
	GLOBE VALVE
	CHECK VALVE
CBV	CIRCUIT BALANCING VALVE
	BALL VALVE
	SAFETY RELIEF VALVE
	STRAINER
UNION	UNION
	CONCENTRIC REDUCER
	ECCENTRIC REDUCER
N.O.	'NORMALLY OPEN'
N.C.	'NORMALLY CLOSED'
	PRESSURE GAUGE
	THERMOMETER
	AQUASTAT
PRV	PRESSURE REDUCING VALVE
VB	VACUUM BREAKER
	BACKFLOW PREVENTER
FS	FLOW SWITCH
AAV	AUTOMATIC AIR VENT
LWCO	LOW WATER CUT-OFF
	PLUG/COCK VALVE
	BUTTERFLY VALVE
	TEST PORT
	PUMP
CAP	CAP ON PIPING
	DRAWING NOTE
	ISOLATION VALVE
LENGTH kw	A - HEATER REFERENCE TAG B - ACTIVE LENGTH (MM) C - HEAT OUTPUT (KW)

PLUMBING LEGEND	
SYMBOL	DESCRIPTION
EX.SAN	EXISTING ABOVE GROUND SANITARY DRAINAGE PIPING
EX.SAN	EXISTING UNDERGROUND SANITARY DRAINAGE PIPING
SAN	ABOVE GROUND SANITARY DRAINAGE PIPING
SAN	UNDERGROUND SANITARY DRAINAGE PIPING
EX.STM	EXISTING ABOVE GROUND STORM DRAINAGE PIPING
EX.STM	EXISTING UNDERGROUND STORM DRAINAGE PIPING
STM	ABOVE GROUND STORM DRAINAGE PIPING
STM	UNDERGROUND STORM DRAINAGE PIPING
EX.V	EXISTING ABOVE GROUND VENT PIPING
EX.V	EXISTING UNDERGROUND VENT PIPING
V	ABOVE GROUND VENT PIPING
V	UNDERGROUND VENT PIPING
EX.CD	EXISTING CONDENSATE DRAINAGE PIPING
CD	CONDENSATE DRAINAGE PIPING
	EXISTING DOMESTIC COLD WATER PIPING
	DOMESTIC COLD WATER PIPING
	EXISTING DOMESTIC HOT WATER PIPING
	DOMESTIC HOT WATER PIPING
	EXISTING DOMESTIC HOT WATER RETURN PIPING
	DOMESTIC HOT WATER RETURN PIPING
EX.G	EXISTING GAS PIPING
G	LOW PRESSURE GAS PIPING
HPG	HIGH PRESSURE GAS PIPING
	EXISTING PIPING/EQUIPMENT TO BE REMOVED
SSSS	HEAT TRACING ON PIPE
	CONTINUATION OF DUCTWORK/PIPING
	GAS COCK VALVE
FD	FLOOR DRAIN/FUNNEL FLOOR DRAIN
HD	HUB DRAIN
AD	AREA DRAIN
RD	ROOF DRAIN
CB	CATCH BASIN
CO	BURIED CLEANOUT
CO	EXPOSED CLEANOUT
	SANITARY 'P' TRAP
	PIPE UP
	PIPE DOWN
VTR	VENT THROUGH ROOF
CAP	CAP ON PIPING
	DRAWING NOTE
	ISOLATION VALVE
	PIPING DROPDOWN
	WATER METER

FIRE PROTECTION LEGEND	
SYMBOL	DESCRIPTION
	UPRIGHT SPRINKLER HEAD
	PENDENT SPRINKLER HEAD
	RECESSED PENDENT SPRINKLER HEAD
	CONCEALED SPRINKLER HEAD
	SIDEWALL SPRINKLER HEAD
	FIRE EXTINGUISHER
FHC	FIRE HOSE CABINET
	DRAWING NOTE



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PROJECT:
RENOVATIONS AT ECOLE ELEMENTAIRE FELIX-LECLERC
50 CELESTINE DRIVE
TORONTO, ON

DRAWING:
MECHANICAL LEGEND

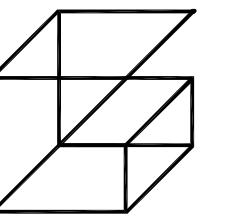


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DESIGN BY: JH
DRAWN BY: RC
CHECKED BY: JH
DATE: JAN 2025
SCALE: AS SHOWN
FILE:

PROJECT NO: **24-182**
DRAWING NO: **M-1.3**



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Table with 4 columns: NO., ISSUES, DATE, BY. Row 1: 1, ISSUED FOR REVIEW, FEB. 21 2025, RC. Row 2: 2, ISSUED FOR PERMIT & TENDER, MAR. 17 2025, SW.

Table with 4 columns: NO., REVISIONS, DATE, BY. Row 1: 1, REVISIONS, DATE, BY.

PROJECT:

RENOVATIONS AT ECOLE ELEMENTAIRE FELIX-LECLERC

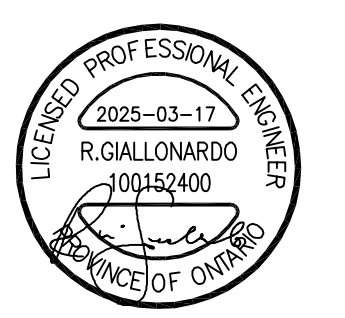
50 CELESTINE DRIVE TORONTO, ON

DRAWING:

MECHANICAL SCHEDULES I



BARRY BRYAN ASSOCIATES Architects Engineers Project Managers 250 Water Street Suite 201 Whitby, Ontario L1N 0G8 Tel: (905) 696-8282 Fax: (905) 696-8286 e-mail: bba@bbe-archng.com



DESIGN BY: JH DOC CONTROL: DATE: DRAWN BY: RC % COMPLETE: CHECKED BY: JH INITIAL: DATE: JAN 2025 SCALE: AS SHOWN FILE:

PROJECT NO:

24-182

DRAWING NO:

M-1.4

UNIT VENTILATOR SCHEDULE

Table with columns: TAG, MANU., MODEL, LOCATION, NOM. TONS, COND. UNIT TAG, COOLING (TOTAL COOLING CAPACITY, ED/EBWB, LDB/LWB, RATED HEATING CAPACITY), HEATING (MAT/LAT, WATER FLOW RATE, EWT/LWT, COIL WPD), FAN (NOM. AIRFLOW, OUTDOOR AIRFLOW, E.S.P., MOTOR), V/PH/HZ, MCA (A), WEIGHT (LBS (KG)), REMARKS. Includes rows UV-142 to UV-131 and notes 1-7.

CONDENSING UNIT SCHEDULE

Table with columns: TAG, MANU., MODEL, LOCATION, RATED COOLING CAPACITY, RATED HEATING CAPACITY, REFRIG. TYPE, PIPING CONNECTION, ELECTRICAL CHARACTERISTICS, WEIGHT, REMARKS. Includes rows CU-1 and CU-131 to CU-142 and notes 1-7.

HYDRONIC WALLFIN HEATER SCHEDULE

Table with columns: REF., MANU., ELEMENT MODEL, CONFIG., ROWS, ENCLOSURE MODEL, HEATING OUTPUT DENSITY, HEATING WATER (FLOW RATE, EWT, LWT), CONNECTION SIZE (SUPPLY, RETURN), TOTAL CAPACITY, REMARKS. Includes row A and notes 1-3.

RADIANT PANEL SCHEDULE

Table with columns: TAG, MANU., MODEL, CONFIG., PANEL WIDTH, ACTIVE LENGTH, ROWS, HEATING OUTPUT DENSITY, HEATING WATER (FLOW RATE, EWT, LWT), TOTAL CAPACITY, WPD, REMARKS. Includes rows RH-1 and RH-2.

EVAPORATOR SCHEDULE

Table with columns: TAG, MANU., MODEL, LOCATION, COND. UNIT TAG, RATED COOLING CAPACITY, RATED HEATING CAPACITY, BLOWER PERFORMANCE, PIPING CONNECTION, ELECTRICAL CHARACTERISTICS, WEIGHT, REMARKS. Includes rows AC-1 and AC-2 and notes 1-6.

DIFFUSER SCHEDULE

Table with columns: TAG, MAKE/MODEL, FINISH, REMARKS. Includes rows A, B, C, D, E and notes 1-2.

ENERGY RECOVERY VENTILATOR SCHEDULE

Table with columns: TAG, MANU., MODEL, LOCATION, F/A CAP., E/A CAP., ESP, MOTOR, V/PH/HZ, MCA, MOP, STARTER, WEIGHT, REMARKS. Includes row ERV-1 and notes 1-2.

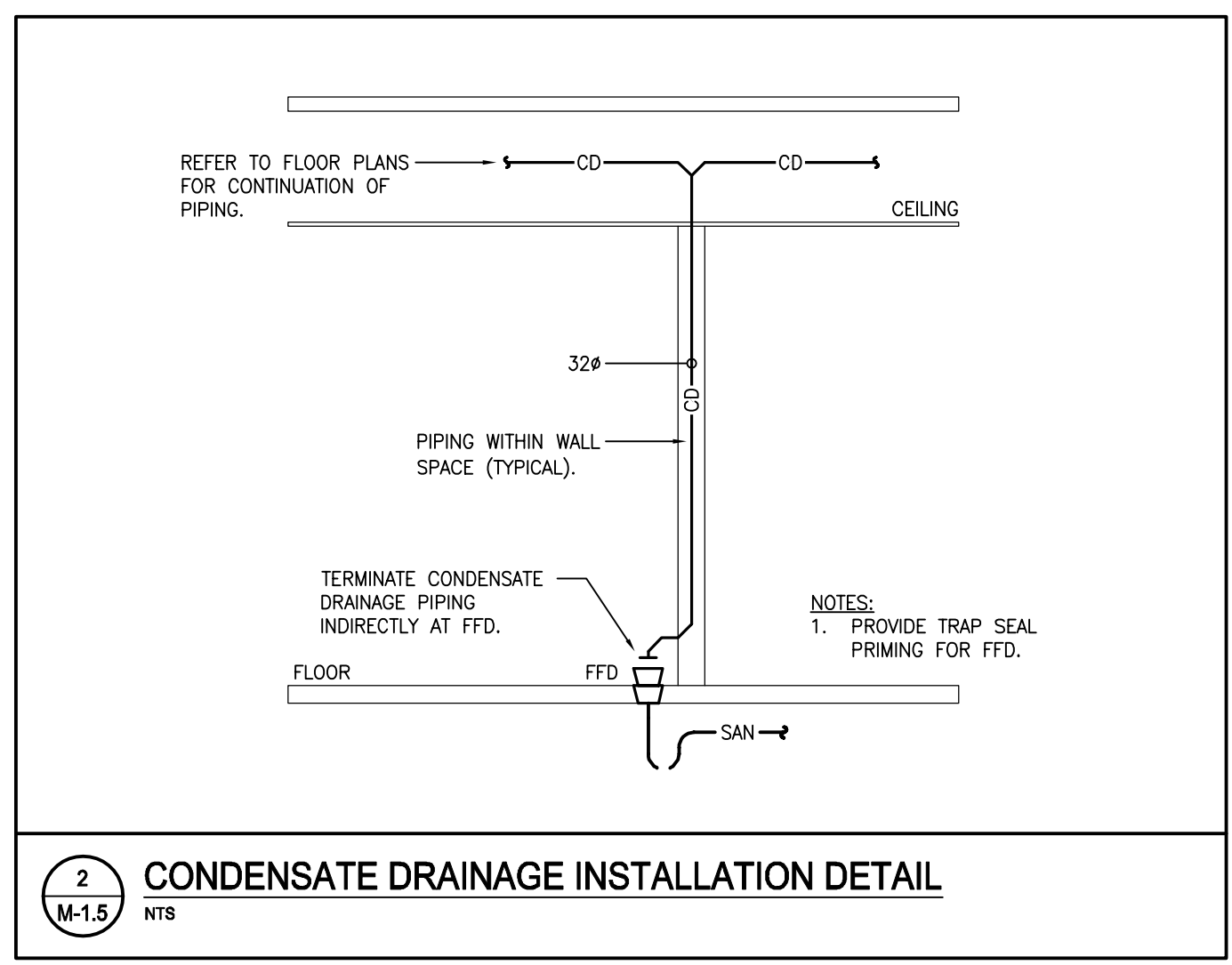
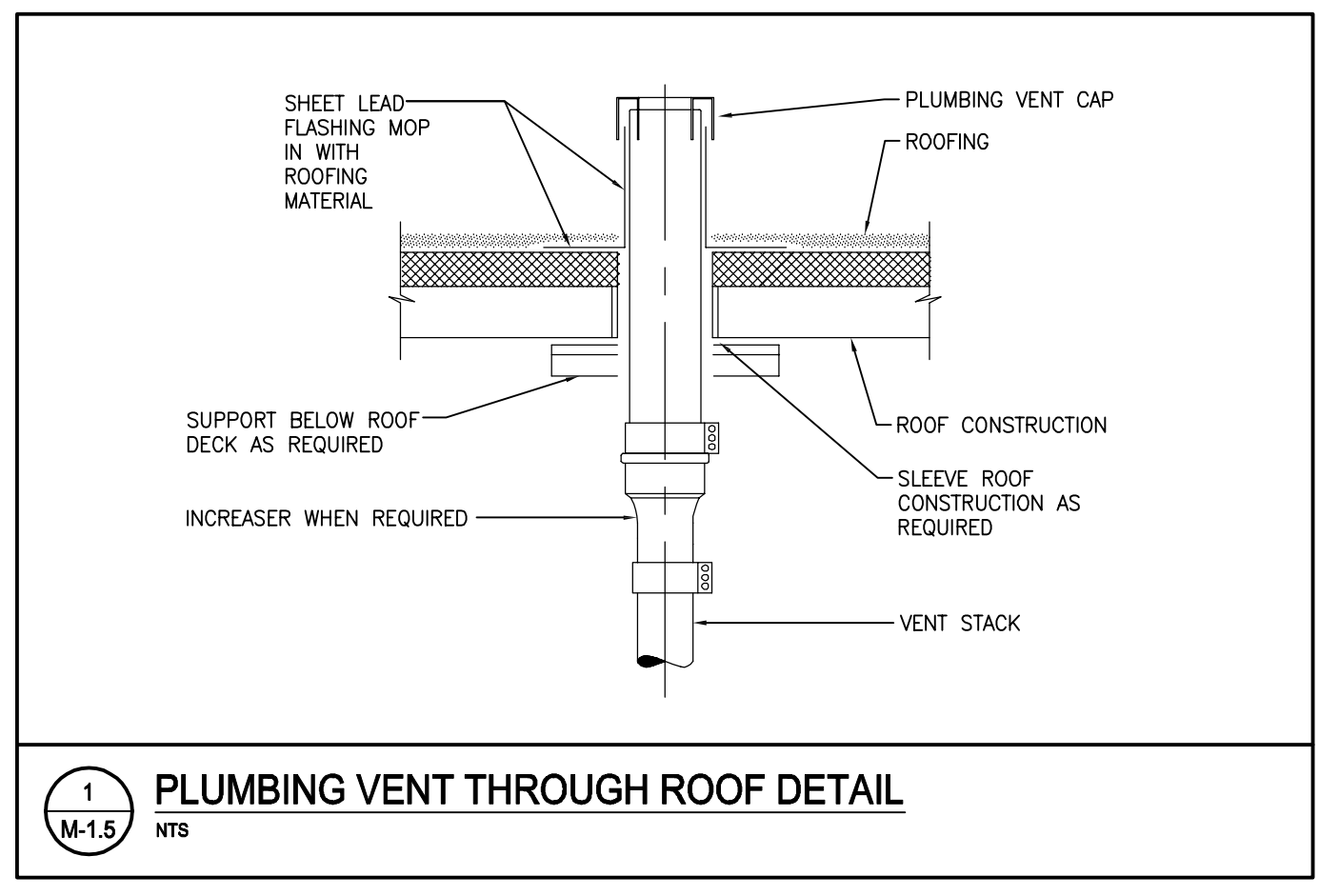
ELECTRIC DUCT HEATER SCHEDULE

Table with columns: TAG, SERVING, MANU., MODEL, AIR CAP., DUCT DIM., EAT, LAT, STEPS, KW, V/PH/HZ, TYPE, REMARKS. Includes row EDH-1 and notes 1-2.

PLUMBING FIXTURE SCHEDULE

TAG	FIXTURES SPECIFICATION	PIPE CONNECTION (IN MM)				
		TRAP	COLD WATER	HOT WATER	DRAIN	VENT
WC1	FLOOR MOUNTED TOILET - VITREOUS CHINA - TANK TYPE - MANUAL AMERICAN STANDARD 2462016.020 TOILET - CADET, TANK TYPE TOILET, FLOOR MOUNTED WITH FLOOR OUTLET, LOW CONSUMPTION 6.0 LPF (1.6 GPF), VITREOUS CHINA, WHITE FINISH, EVERCLEAN ANTIMICROBIAL SURFACE, ELONGATED BOWL, MANUAL, POLISHED CHROME LEFT-HAND TRIP LEVER (7381866-201.0020A), PRESSURE-ASSISTED FLUSH. CENTOCO_500STSCCFE-001 SEAT - FAST-N-LOCK, FOR ELONGATED BOWL, OPEN FRONT, HEAVY-DUTY, POLYPROPYLENE, TOILET SEAT, LESS SEAT COVER, PLASTIC COMMERCIAL CHECK HINGES, WHITE FINISH, FAST-N-LOCK MOUNTING SYSTEM. THE BOLT AND NUT MATERIAL SHALL BE STAINLESS STEEL. PROVIDE HEAVY DUTY LOOSE KEY ANGLE STOPS, FLEXIBLE RISERS, ESCUTCHEON PLATE, TOILET FLANGE AND ALL OTHER ACCESSORIES REQUIRED FOR A FULL AND COMPLETE INSTALLATION.	3" [75#]	1/2" [12#]	-	3" [75#]	1-1/2" [38#]
L1	WALL MOUNT BASIN - LEVER HANDLE METERING FAUCET - MANUAL AMERICAN STANDARD 9024001FC.020 BASIN - DECORUM, WALL-HUNG LAVATORY, VITREOUS CHINA, EVERCLEAN ANTIMICROBIAL SURFACE, WHITE FINISH, SINGLE HOLE CENTERSET, REAR OVERFLOW, WITH FAUCET LEDGE, FOR CONCEALED ARM CARRIER, OVERALL DIMENSIONS: 508 MM (20") LONG, 464 MM (18-1/4") WIDE, 187 MM (7-3/8") HIGH, BOWL DIMENSIONS: 354 MM (13-15/16") LONG, 325 MM (12-13/16") WIDE, 127 MM (5") DEEP. AMERICAN STANDARD 7075104.002 FAUCET - COLONY, COUNTER MOUNTED, MANUAL, SINGLE HANDLE, LAVATORY FAUCET, POLISHED CHROME FINISH, SINGLE HOLE CENTERSET, 610 MM (24") COLOUR-CODED BRAIDED FLEXIBLE SUPPLY HOSES WITH 10 MM (3/8") COMPRESSION CONNECTIONS, CERAMIC DISC CARTRIDGE, 4.5 LPM (1.2 GPM) MAXIMUM FLOWRATE, PRESSURE COMPENSATING AERATOR, FIXED MID-ARC SPOUT, 111 MM (4-3/8") SPOUT REACH, 157 MM (6-3/16") HIGH, LEVER HANDLE, LESS DRAIN, LESS POP-UP HOLE & ROD. LAWLER TMM-1070-87500 MIXING VALVE - POINT OF USE MECHANICAL MIXING VALVE WITH THERMOSTATIC LIMIT STOP, MECHANICAL MIXING VALVE, 1.8 LPM (0.5 GPM) TEMPERED FLOWRATE @ 5 PSI PRESSURE DROP, 8 LPM (2.1 GPM) FLOWRATE @ 45 PSI. PROVIDE FIXTURE DRAIN, P-TRAP, HEAVY DUTY LOOSE KEY ANGLE STOPS, FLEXIBLE RISERS AND ALL OTHER ACCESSORIES REQUIRED FOR A FULL AND COMPLETE INSTALLATION.	1-1/4" [32#]	1/2" [12#]	1/2" [12#]	1-1/4" [32#]	1-1/4" [32#]
S1	SINGLE BOWL SINK - DROP-IN - TWO HANDLE FAUCET - MANUAL FRANKE COMMERCIAL LBS680BP-1-3 SINK - COUNTER MOUNTED, SINGLE COMPARTMENT SINK, CONSTRUCTED FROM 18 GAUGE TYPE 304 STAINLESS STEEL, 203 MM (8") CENTERSET, WITH OVERALL DIMENSION 508 MM (20") LONG, 521 MM (20-1/2") WIDE, 203 MM (8") HIGH. AMERICAN STANDARD 6409170.002 FAUCET - MONTERREY, MANUAL, TWO HANDLES, SINK FAUCET. LAWLER TMM-1070-87500 MIXING VALVE - POINT OF USE MECHANICAL MIXING VALVE WITH THERMOSTATIC LIMIT STOP, MECHANICAL MIXING VALVE, 1.8 LPM (0.5 GPM) TEMPERED FLOWRATE @ 5 PSI PRESSURE DROP, 8 LPM (2.1 GPM) FLOWRATE @ 45 PSI. PROVIDE FIXTURE DRAIN, P-TRAP, HEAVY DUTY LOOSE KEY ANGLE STOPS, FLEXIBLE RISERS AND ALL OTHER ACCESSORIES REQUIRED FOR A FULL AND COMPLETE INSTALLATION.	1-1/2" [38#]	1/2" [12#]	1/2" [12#]	1-1/2" [38#]	1-1/4" [32#]
FD	FLOOR DRAIN WATTS FD-100NH-C-AS-1 FLOOR DRAIN - EPOXY COATED CAST IRON, FLOOR DRAIN, ADJUSTABLE ROUND 6 MM (1/4") THICK TOP, NO-HUB OUTLET, 127 MM (5") DIAMETER NICKEL BRONZE STRAINER, ANCHOR FLANGE, TRAP PRIMER TAPPING, REVERSIBLE MEMBRANE CLAMP, COLLAR WITH PRIMARY AND SECONDARY WEEPHOLES, 52 CM ² (8 SQ. IN.) FREE AREA.	3" [75#]	-	-	3" [75#]	1-1/2" [38#]
FFD	FUNNEL FLOOR DRAIN WATTS FD-100NH-EG-1 FLOOR DRAIN - EPOXY COATED CAST IRON, FLOOR DRAIN, ADJUSTABLE HEEL PROOF NICKEL BRONZE TOP, NO-HUB OUTLET, ANCHOR FLANGE, 102 X 229 MM (4" X 9") OVAL NICKEL BRONZE FUNNEL, REVERSIBLE CLAMPING COLLAR WITH PRIMARY AND SECONDARY WEEPHOLES, 26 CM ² (4 SQ. IN.) FREE AREA.	3" [75#]	-	-	3" [75#]	1-1/2" [38#]
TSP	FLOW ACTIVATED TRAP SEAL PRIMER PPP_PRO1-500 TRAP PRIMER - FLOW ACTIVATED TRAP PRIMER, LEAD FREE BRASS BODY, 0.01 LPM (0.25 GPM), 1/2" FNPT (12 MM) INLET, 1/2" FIP (12 MM) OUTLET, NEOPERL CHECK VALVE, GREY PVC CHECK VALVE ADAPTER, STAINLESS STEEL SCREEN, C69300 LEAD FREE COPPER BRASS, 138 - 552 KPA (20 - 80 PSI) OPERATING WATER PRESSURE, NITRILE O-RING.	-	12#	-	-	-

NOTES:
1. REFER TO ARCHITECTURAL/INTERIOR DESIGNER'S DRAWINGS FOR SPECIFICATIONS OF PLUMBING FIXTURES NOT LISTED ON MECHANICAL DRAWINGS.



FAN SCHEDULE

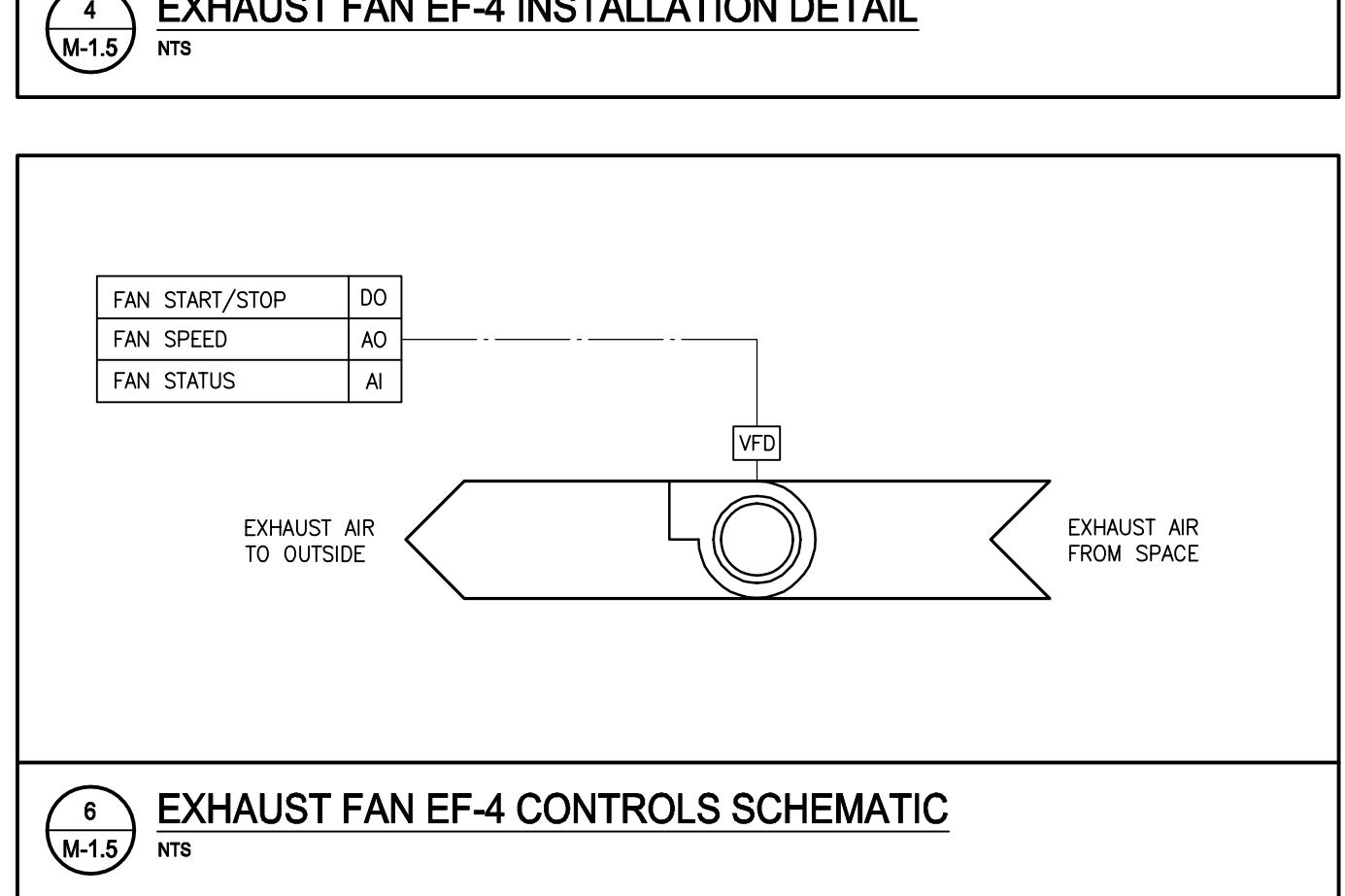
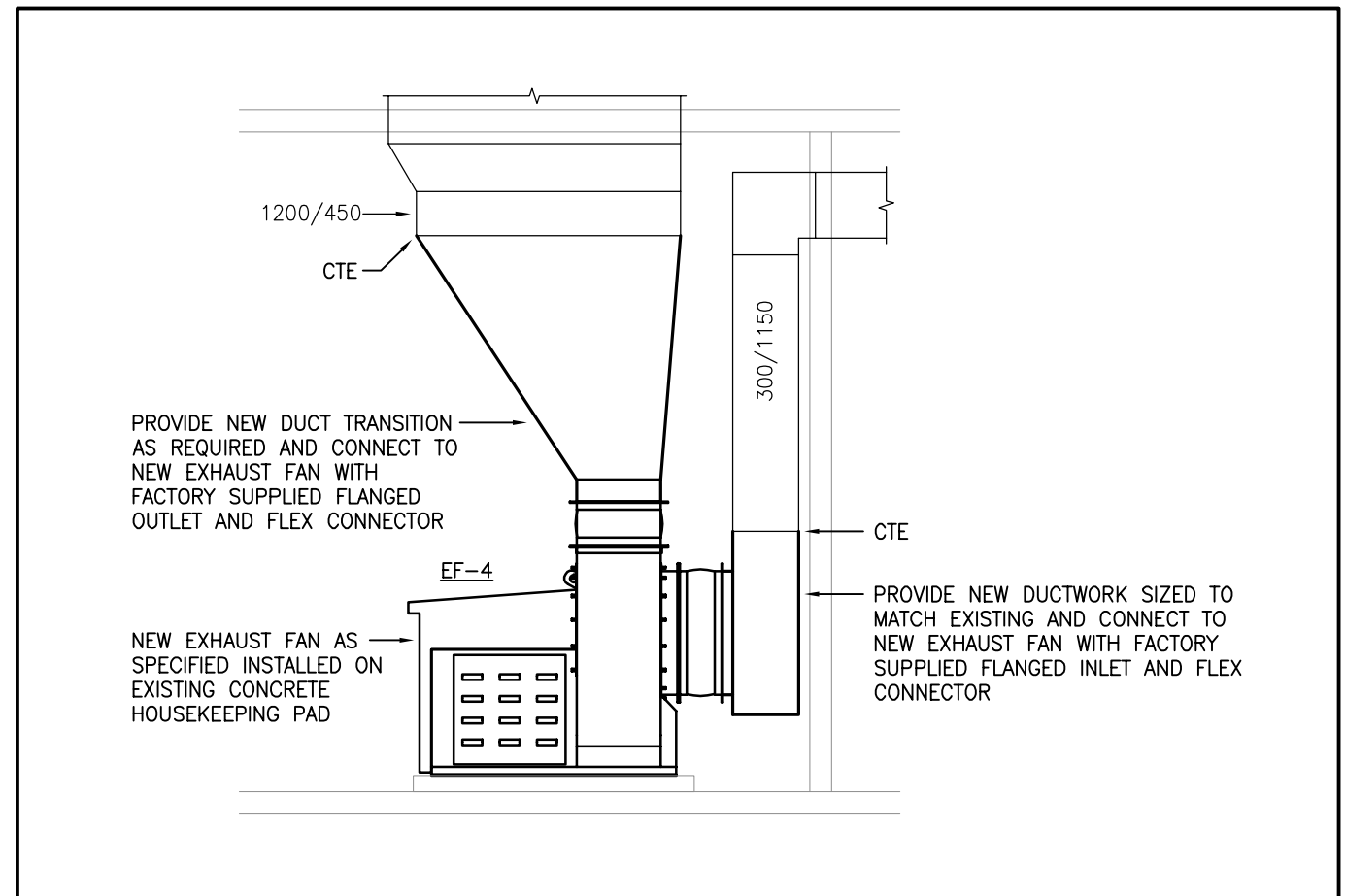
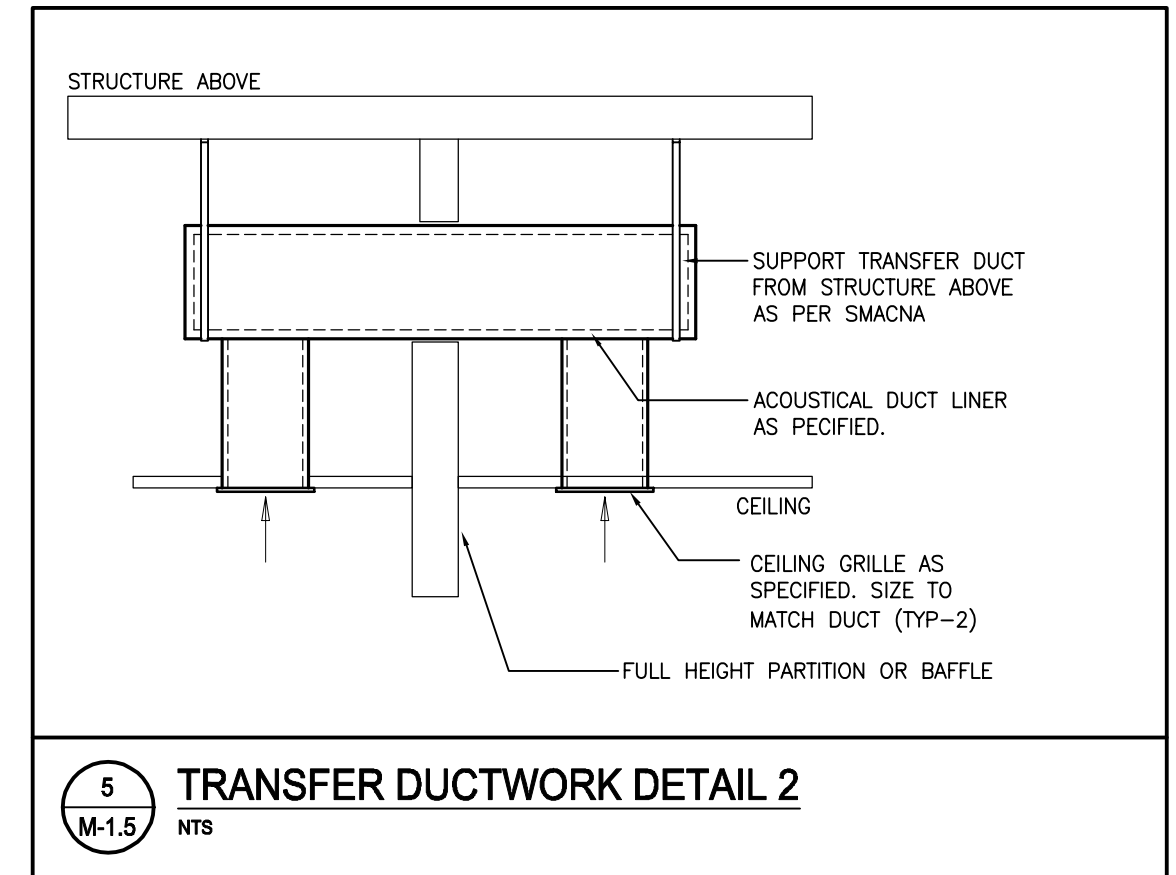
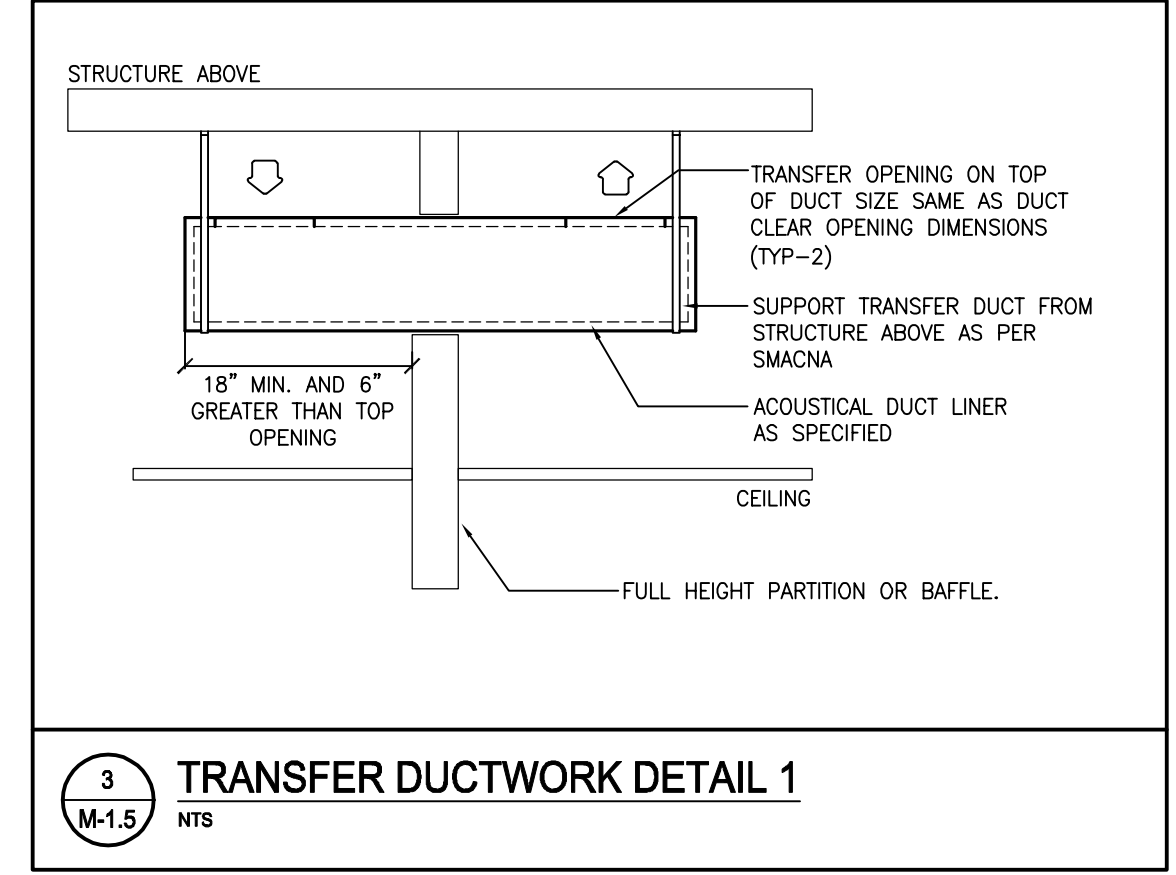
TAG	MANU.	MODEL	LOCATION	SERVICE	CAP. (CFM [L/S])	ESP (IN.WC [PA])	RPM	DRIVE	TYPE	MOTOR (HP [W])	V/PHZ	STARTER	WEIGHT (LBS [KG])	REMARKS
EF-4	NEW YORK BLOWER	GP 20-ACF	FAN ROOM 127	CLASSROOM EXHAUST	3160 [1491]	1.3 [323]	1378	BELT DRIVE	BACKWARD INCLINED CENTRIFUGAL BLOWER	2.0 [1491]	208/3/60	VFD	461 [209]	GENERAL PURPOSE BACKWARD INCLINED CENTRIFUGAL BLOWER, BELT DRIVE, ARRANGEMENT 10, INVERTER DUTY MOTOR, UPBLAST CONFIGURATION, STEEL WEATHER COVER / BELT GUARD, CAST IRON FRAME, FLANGED INLET / OUTLET CONNECTIONS AND FLEX CONNECTORS, STEEL CONSTRUCTION AND VIBRATION ISOLATION C/W 2HP VFD WITH NEMA 1 ENCLOSURE, INTEGRAL DISCONNECT AND BYPASS.

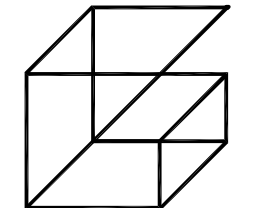
NOTES:
1. ALL MOTORS, STARTERS, CONTACTORS, DISCONNECT SWITCHES AND CONTROL DEVICES SHALL BE PROVIDED BY DIV.23 AND INSTALLED BY DIV.26.
2. ALL LOW VOLTAGE WIRING TO BE PROVIDED BY DIV.23.

VFD SCHEDULE

TAG	EQUIPMENT SERVED	EQUIPMENT TYPE	ROOM NUMBER	MAKE	MODEL NUMBER	POWER (HP)	V/PHZ	REMARKS
VFD-EX-P-1	EX-P-1	PUMP	BOILER ROOM 110A	ARMSTRONG	IVS-102	5.0	208/3/60	NEW VARIABLE FREQUENCY DRIVE AS SPECIFIED C/W INTEGRAL DISCONNECT SWITCH AND BYPASS. VFD SHALL BE EQUIPPED TO CONNECT TO EXISTING BAS.
VFD-EX-P-2	EX-P-2	PUMP	BOILER ROOM 110A	ARMSTRONG	IVS-102	5.0	208/3/60	NEW VARIABLE FREQUENCY DRIVE AS SPECIFIED C/W INTEGRAL DISCONNECT SWITCH AND BYPASS. VFD SHALL BE EQUIPPED TO CONNECT TO EXISTING BAS.

NOTES:
1. THE MANUFACTURER SHALL PROVIDE START-UP & COMMISSIONING OF THE VFD BY A FACTORY-CERTIFIED SERVICE TECHNICIAN.
2. THE MANUFACTURER SHALL WARRANTY THE VFD FOR A PERIOD OF 18 MONTHS FROM DATE OF SHIPMENT. THIS SHALL INCLUDE FOR PARTS, LABOUR, TRAVEL COSTS, EXPENSES, ETC.





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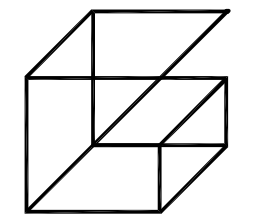
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PROJECT:
RENOVATIONS AT ECOLE ELEMENTAIRE FELIX-LECLERC
50 CELESTINE DRIVE
TORONTO, ON

DRAWING:
MECHANICAL SCHEDULES II AND DETAILS I

 <p>BARRY BRYAN ASSOCIATES Architects Engineers Project Managers 250 Water Street Suite 201 Whitby, Ontario L1N 0G8 Tel: (905) 866-8282 Fax: (905) 866-8286 e-mail: bba@bba-erchng.com</p>	 <p>DESIGN BY: JH DRAWN BY: RC CHECKED BY: JH DATE: JAN 2025 SCALE: AS SHOWN FILE:</p>
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PROJECT NO: 24-182	DRAWING NO: M-1.5
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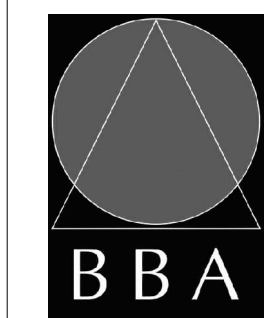
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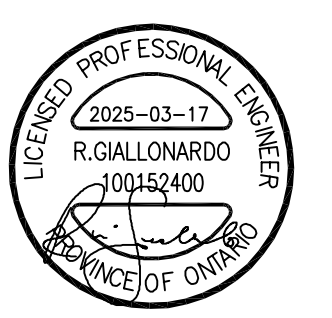
PROJECT:
**RENOVATIONS AT
 ECOLE ELEMENTAIRE
 FELIX-LECLERC**

50 CELESTINE DRIVE
 TORONTO, ON

DRAWING:
MECHANICAL DETAILS II

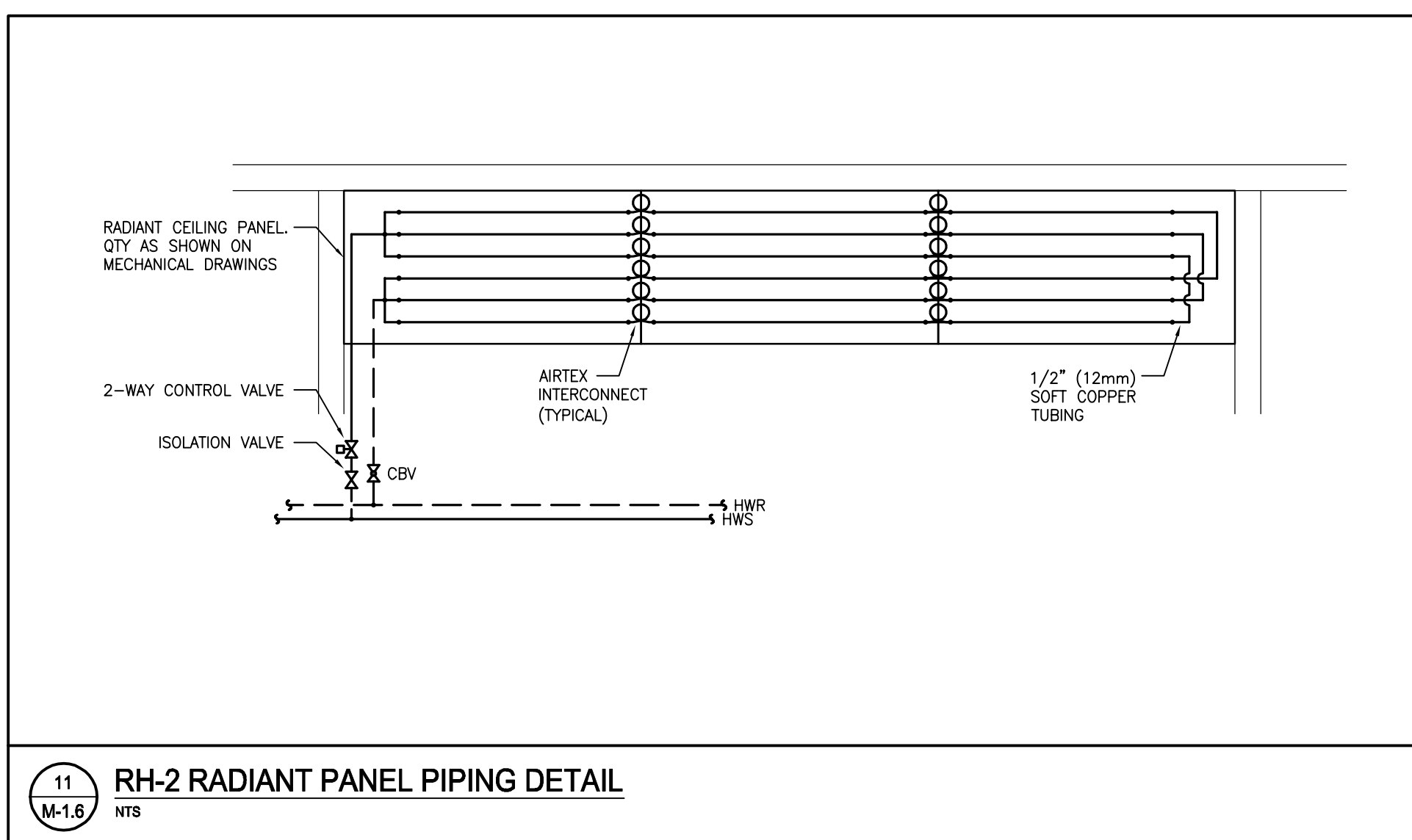
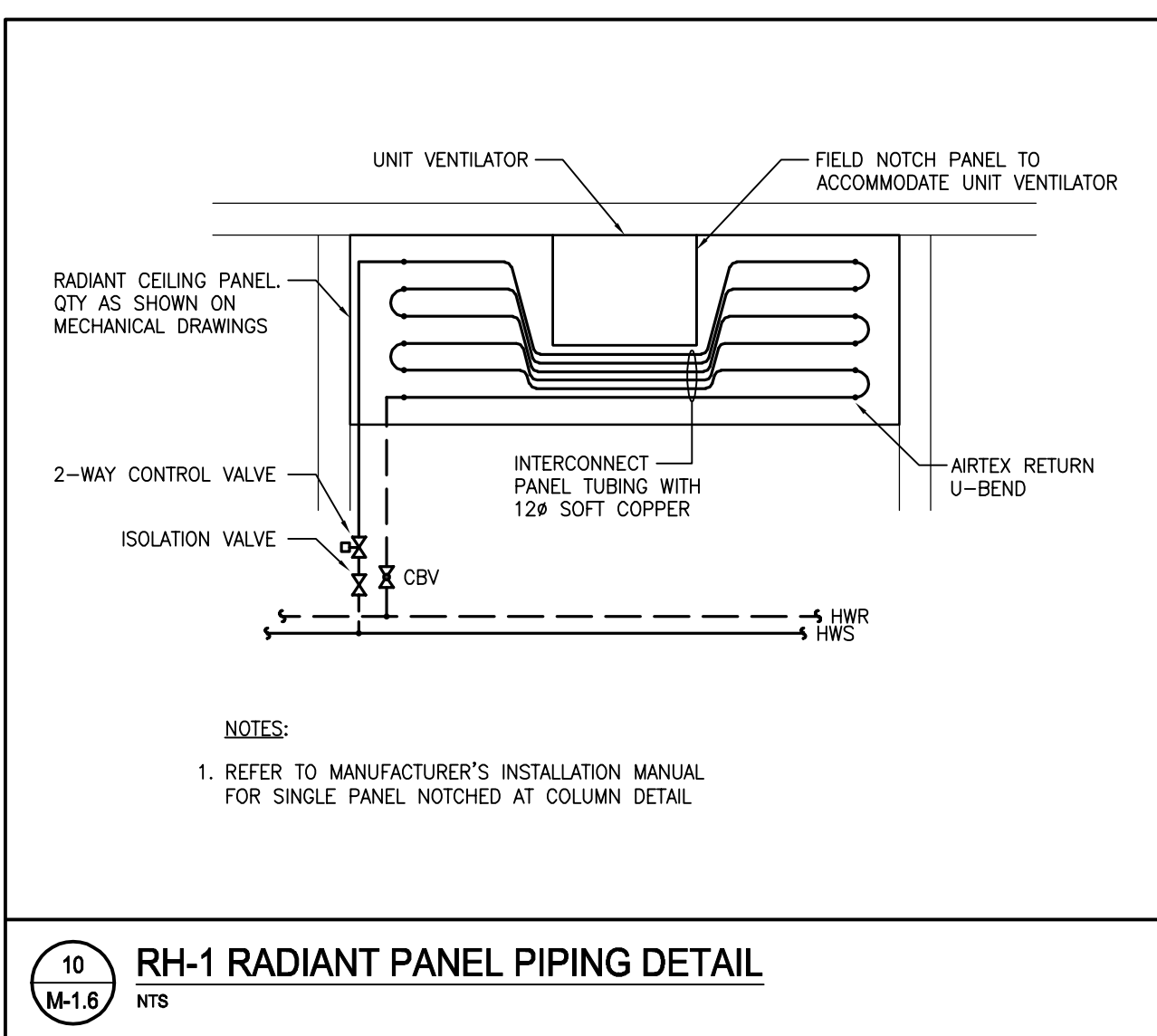
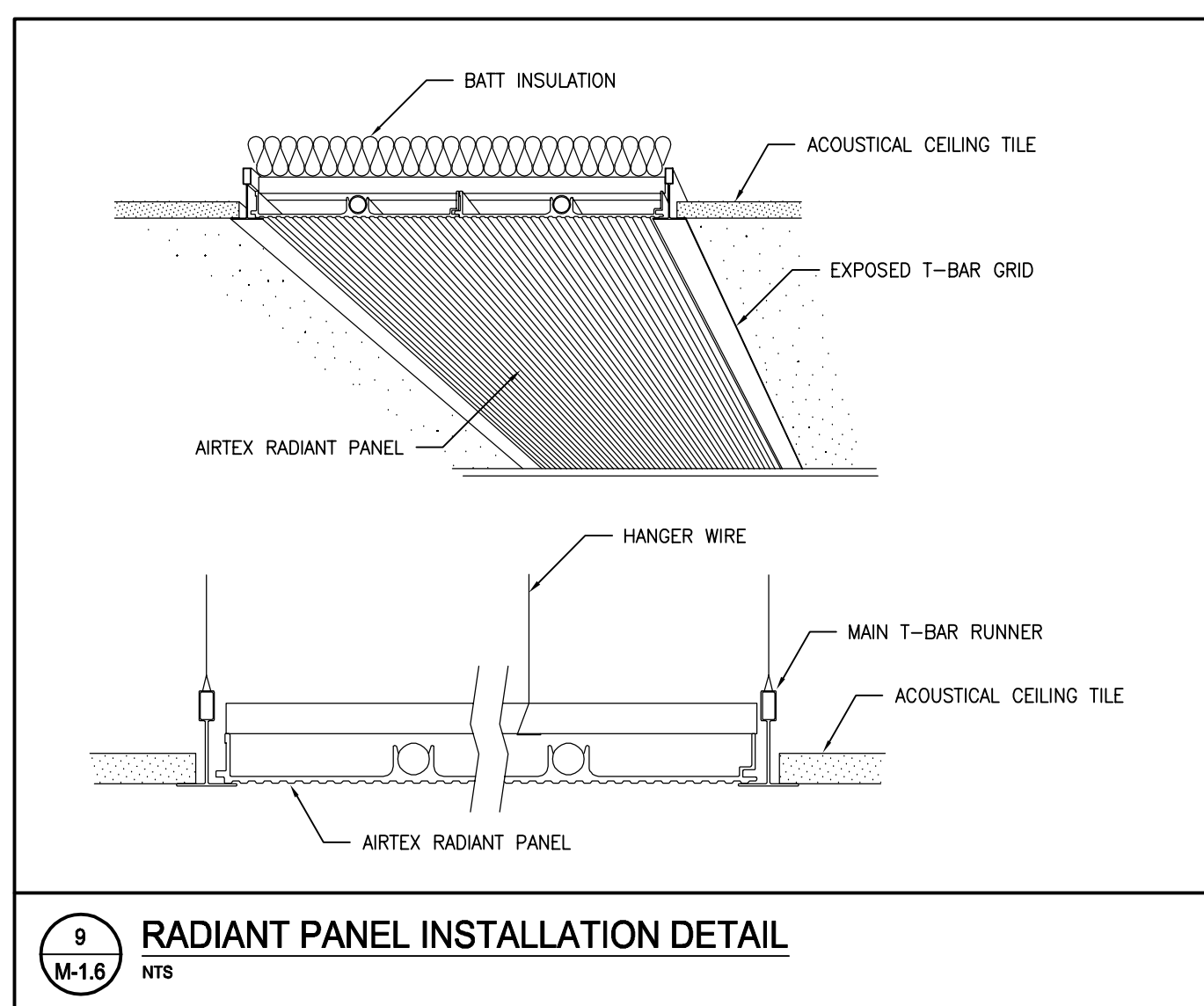
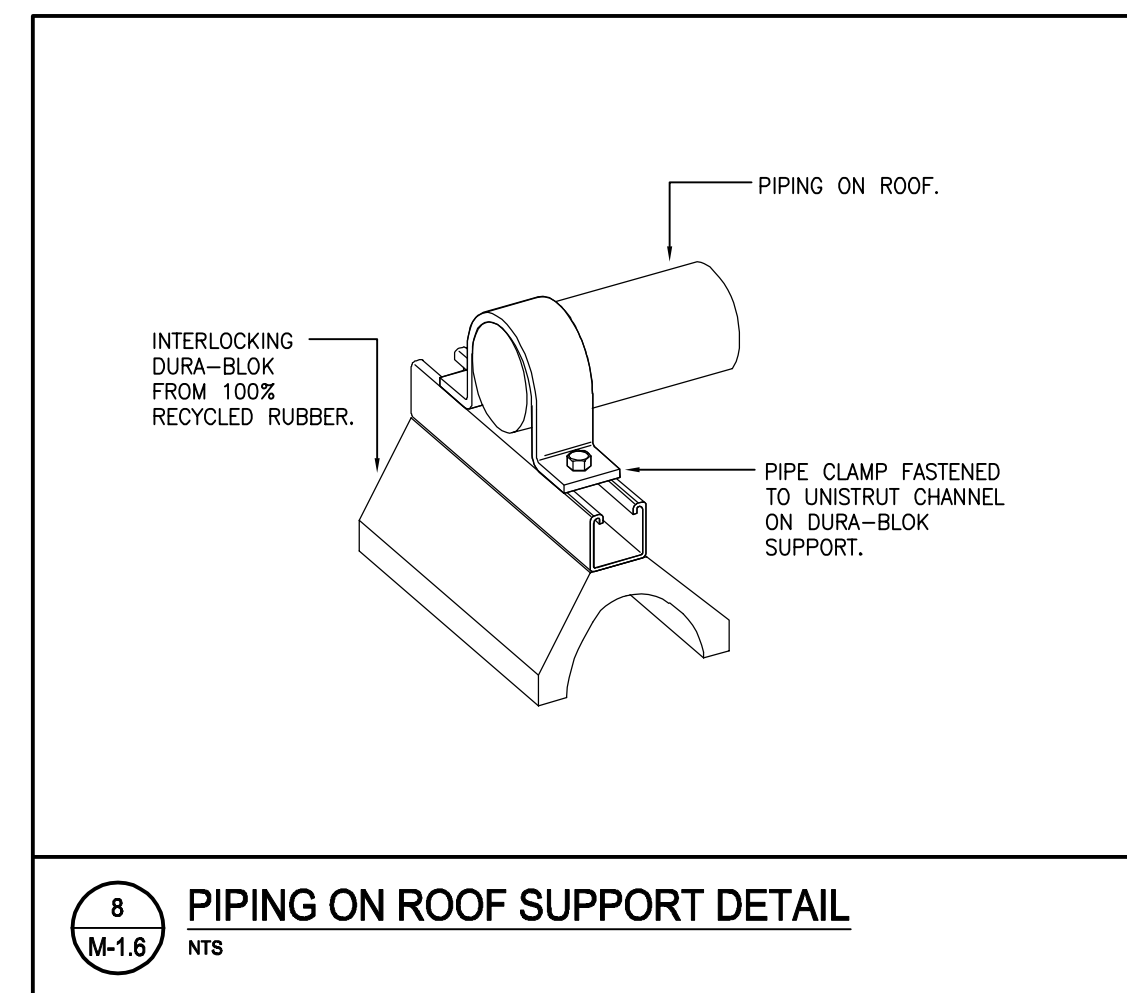
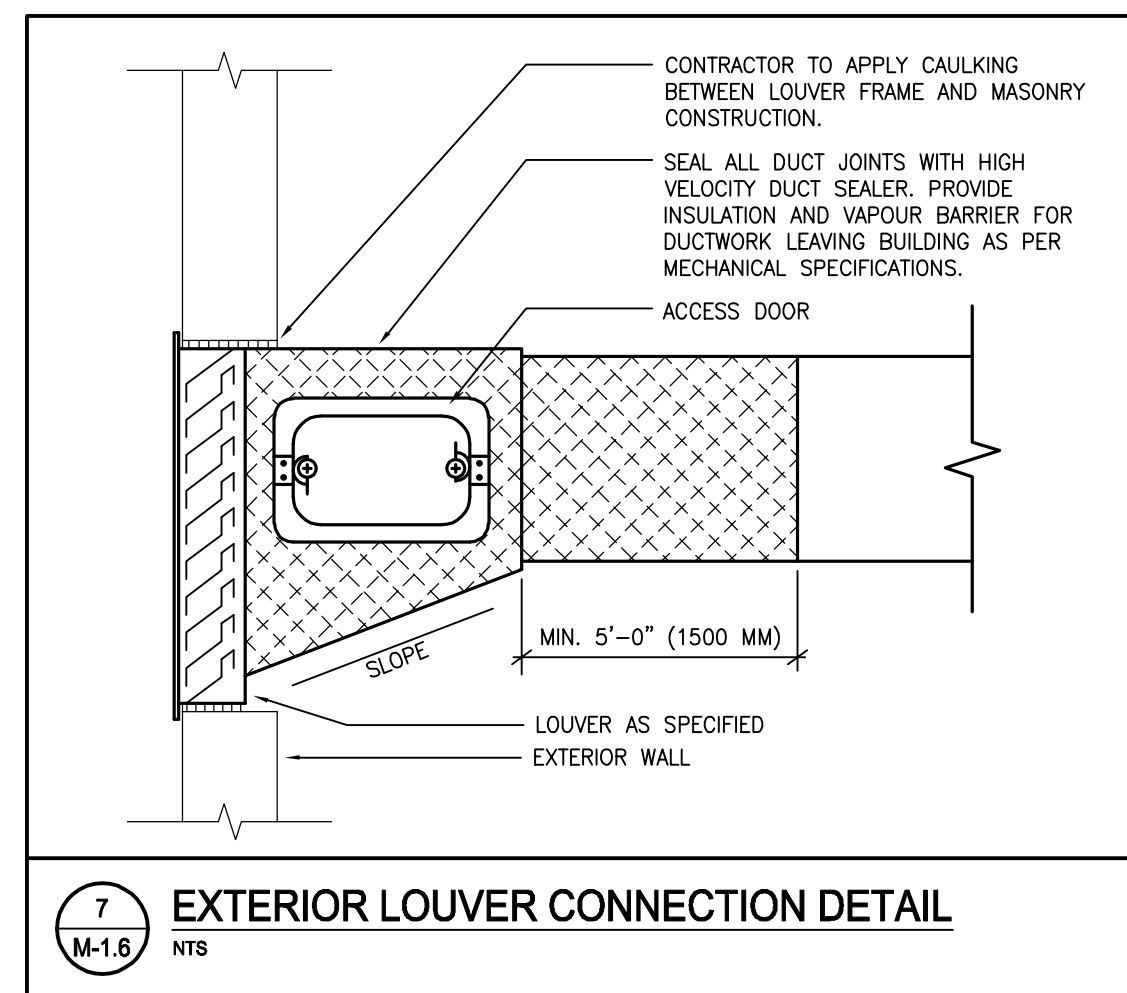
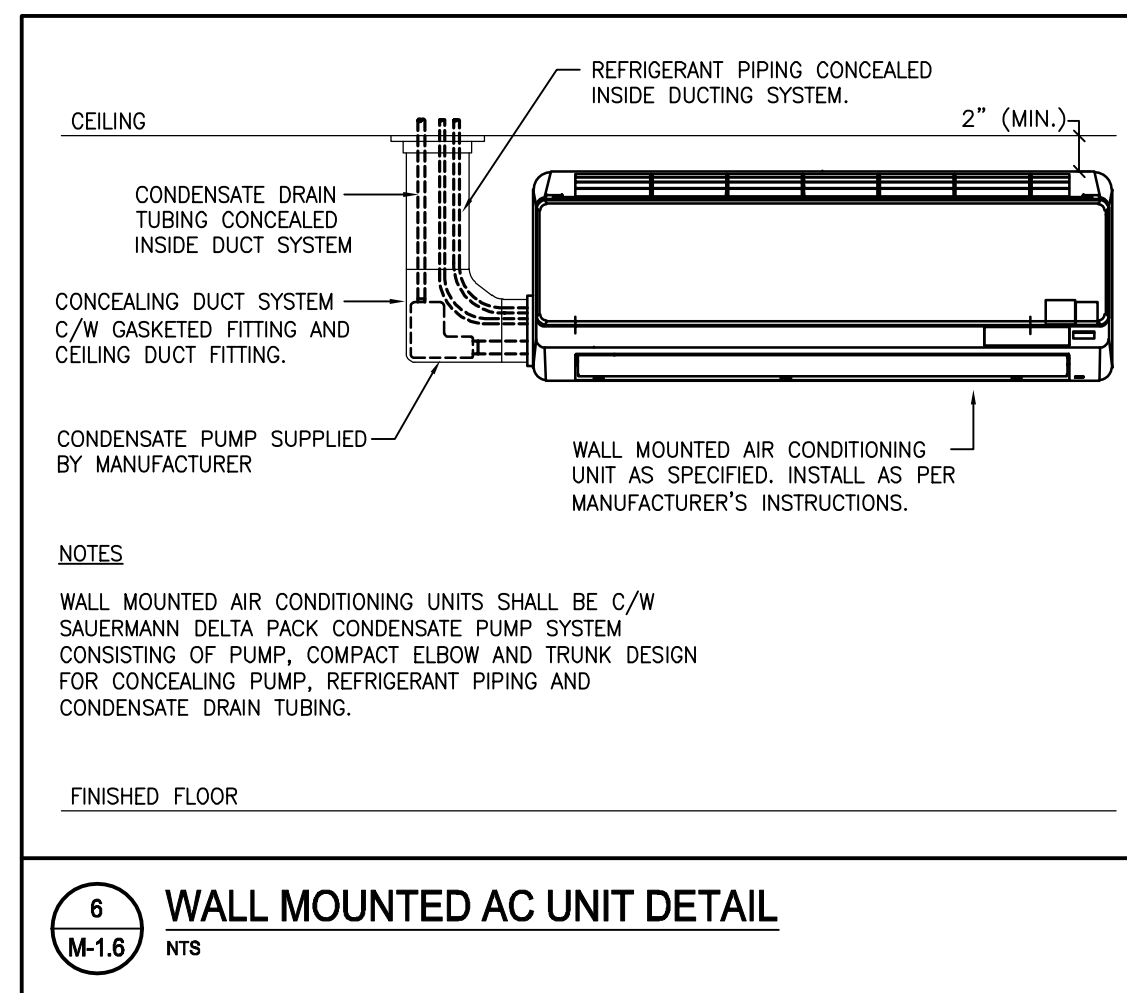
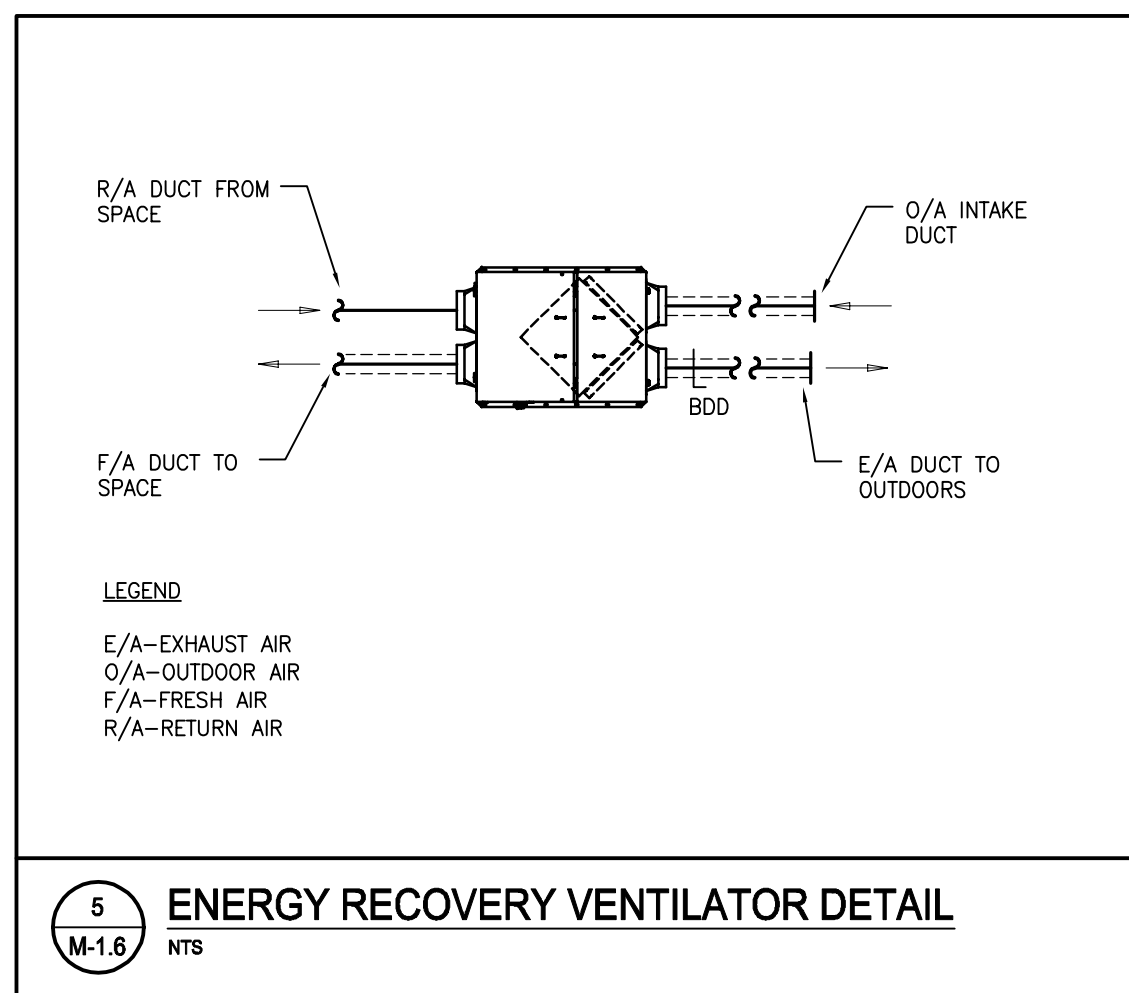
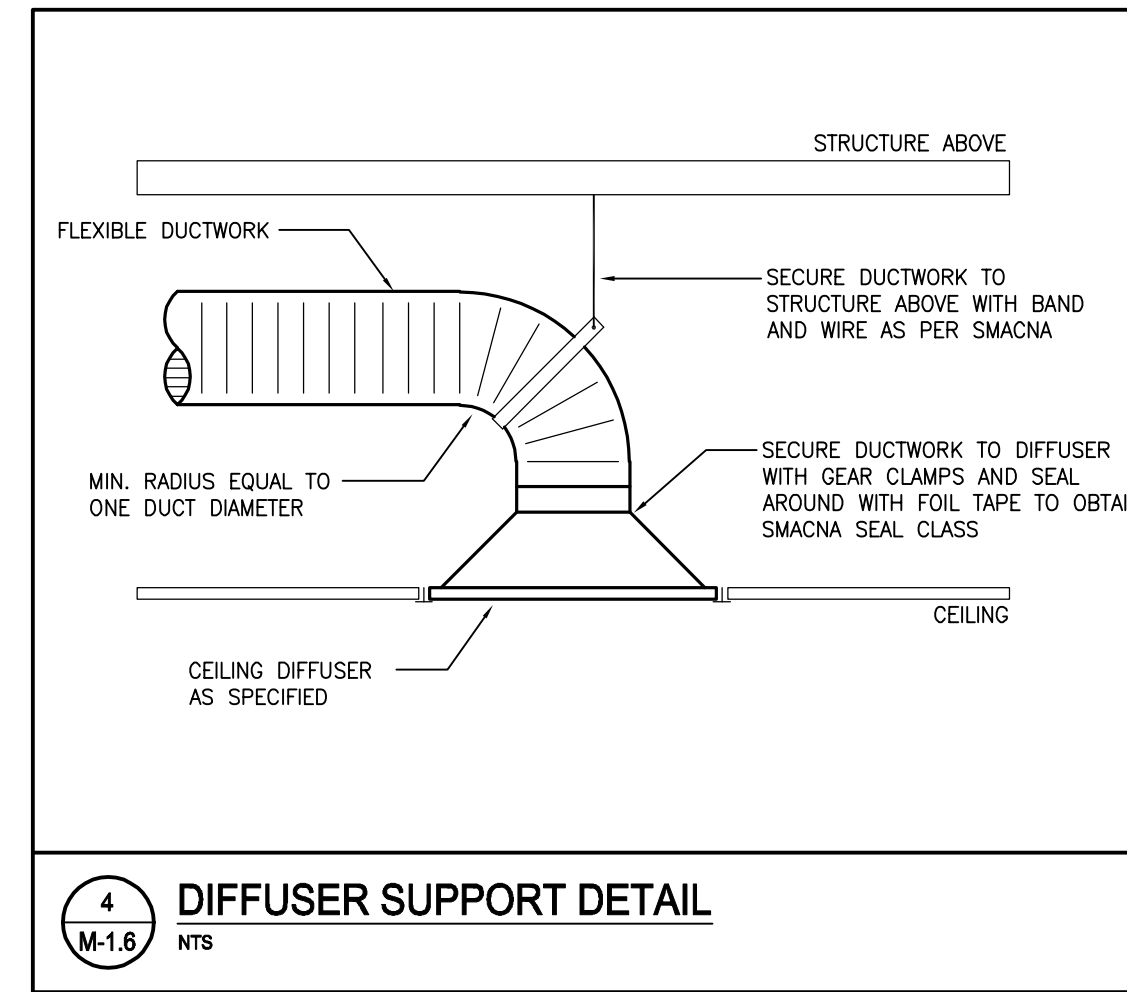
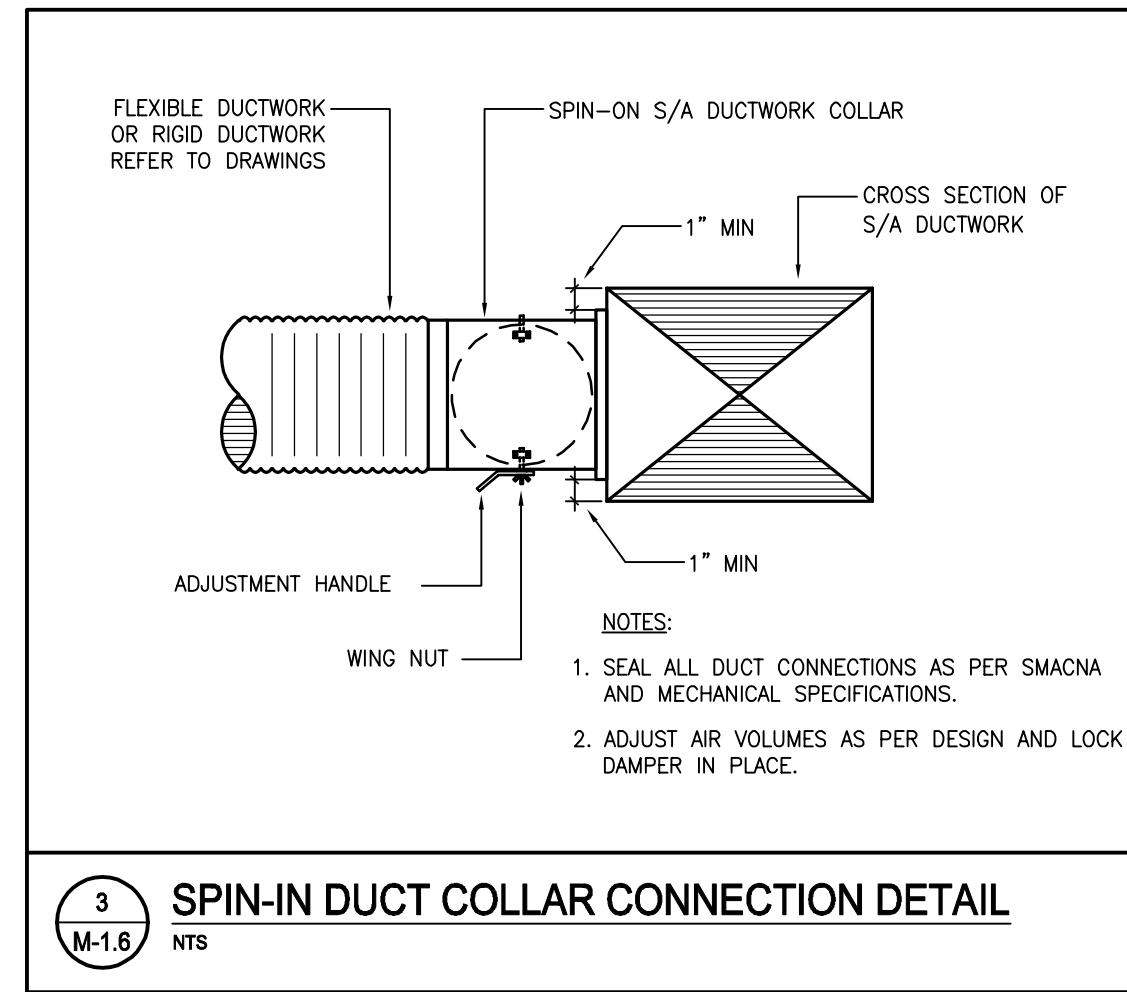
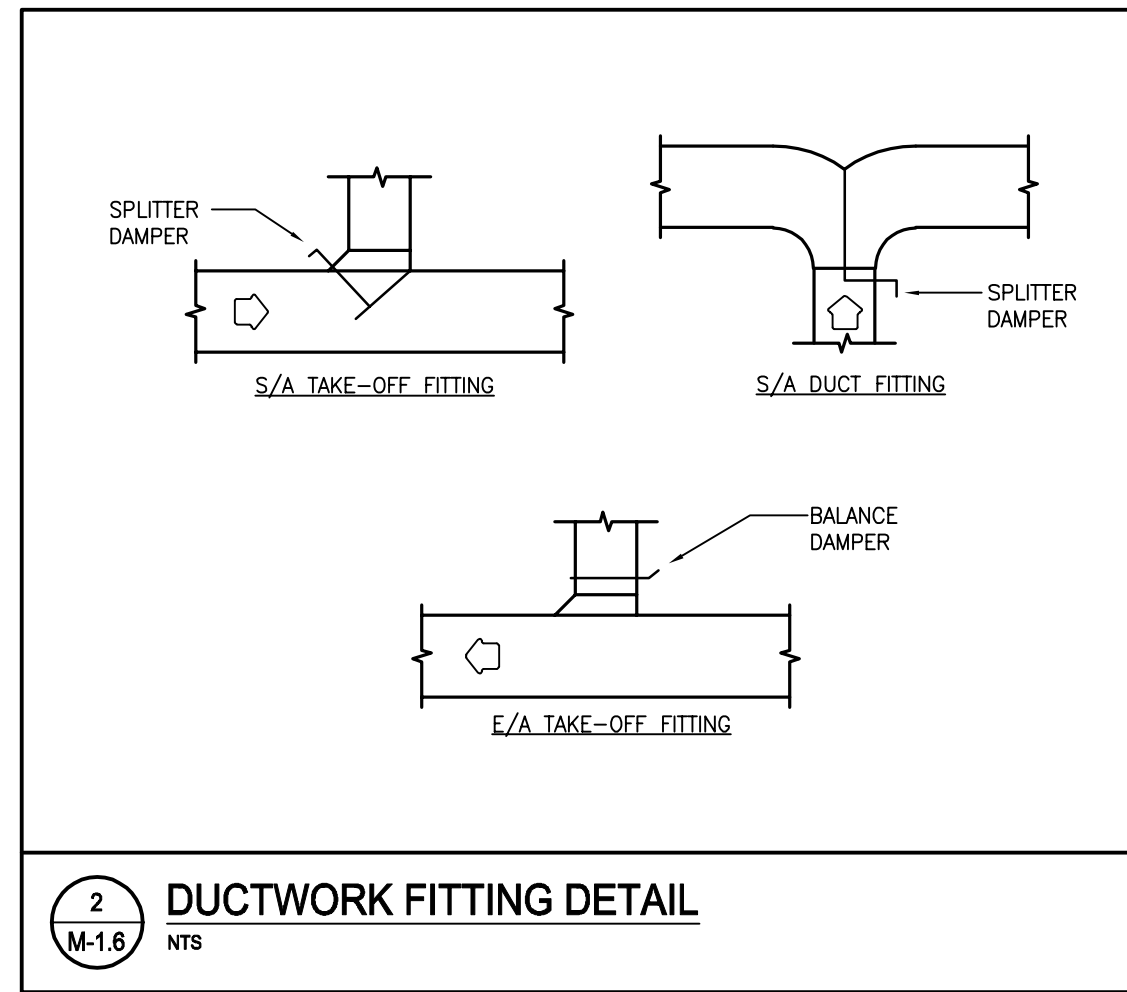
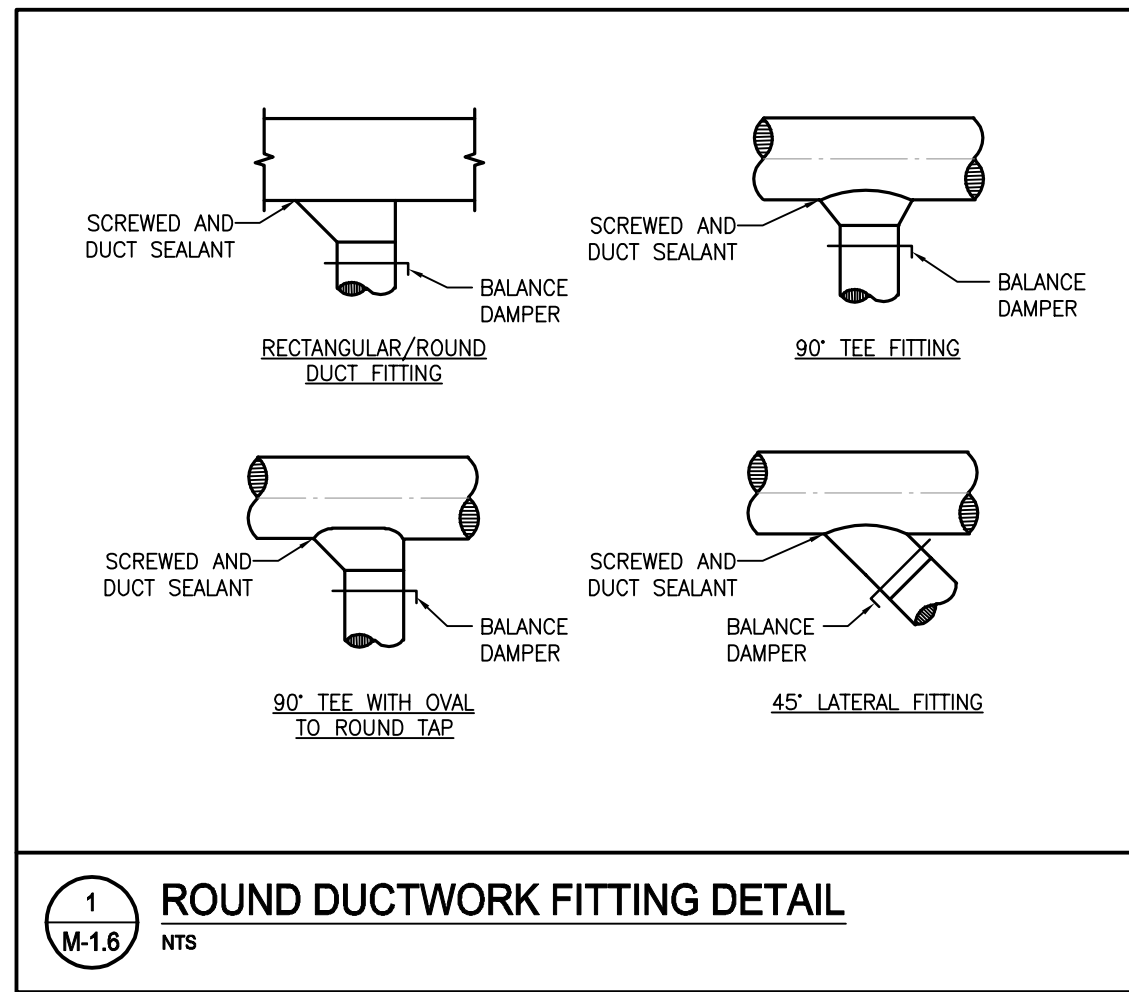


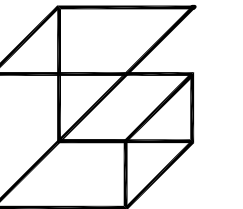
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PROJECT NO: **24-182** DRAWING NO: **M-1.6**





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PROJECT:
RENOVATIONS AT ECOLE ELEMENTAIRE FELIX-LECLERC
 50 CELESTINE DRIVE
 TORONTO, ON

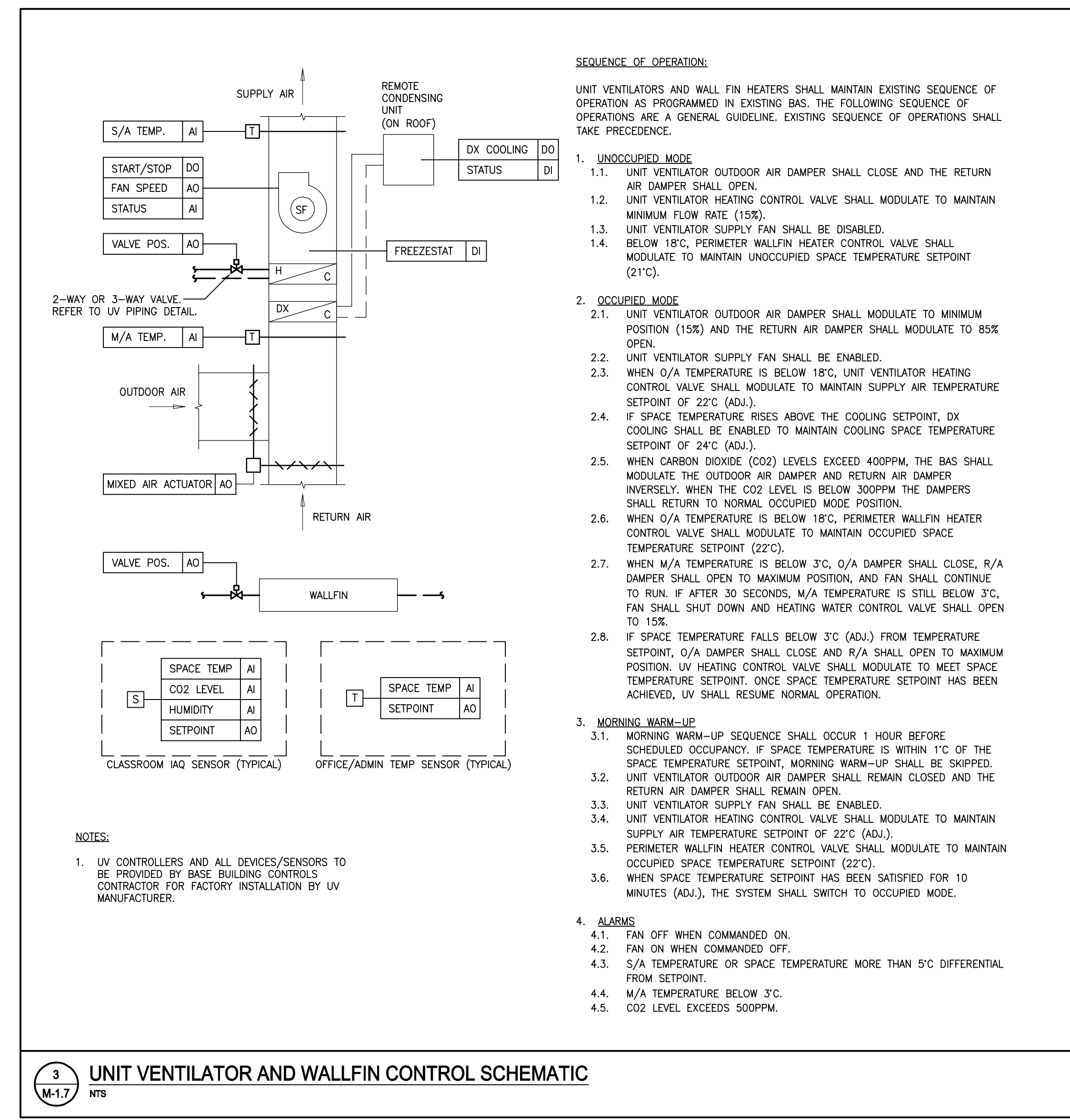
DRAWING:
MECHANICAL DETAILS III



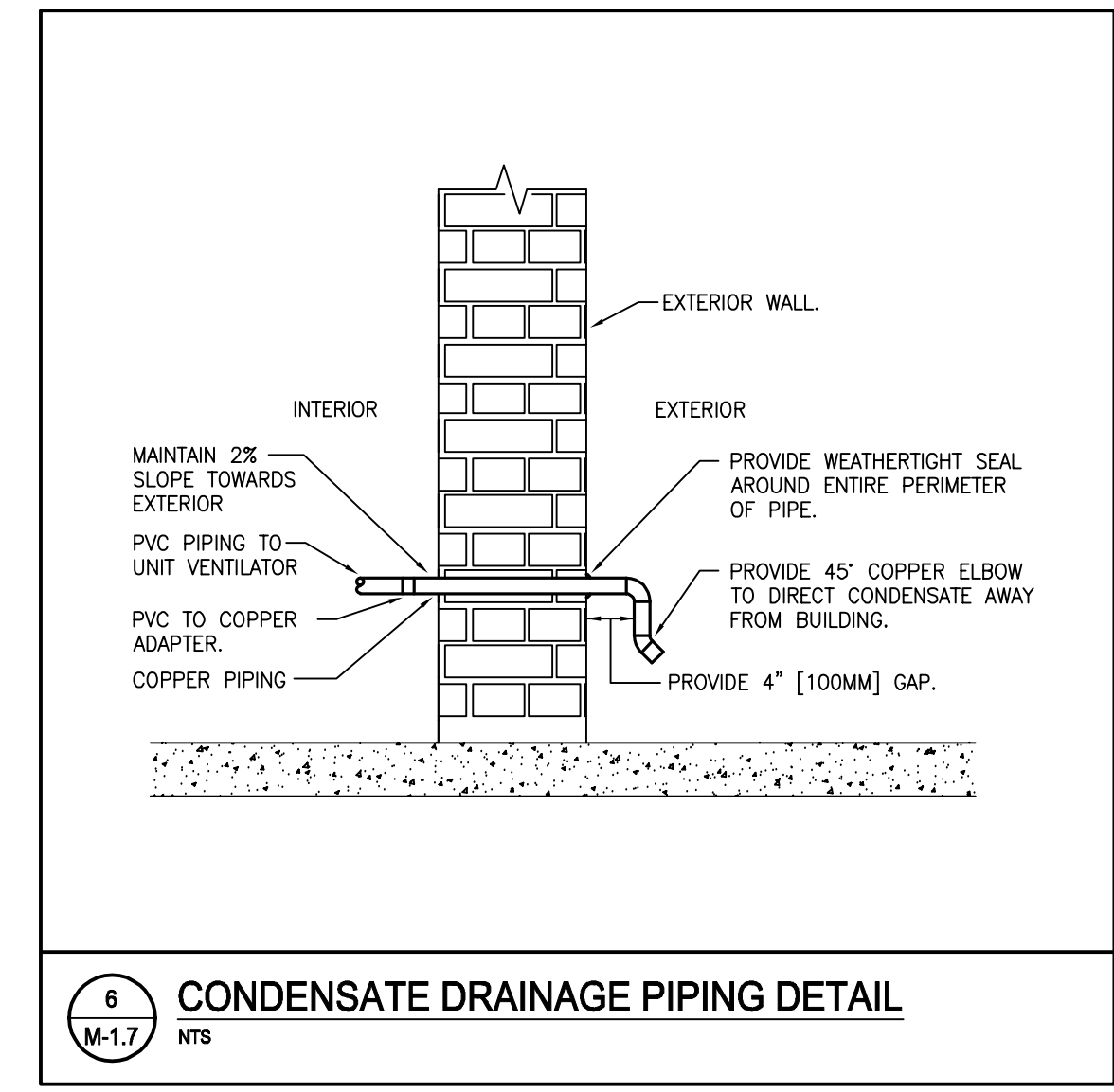
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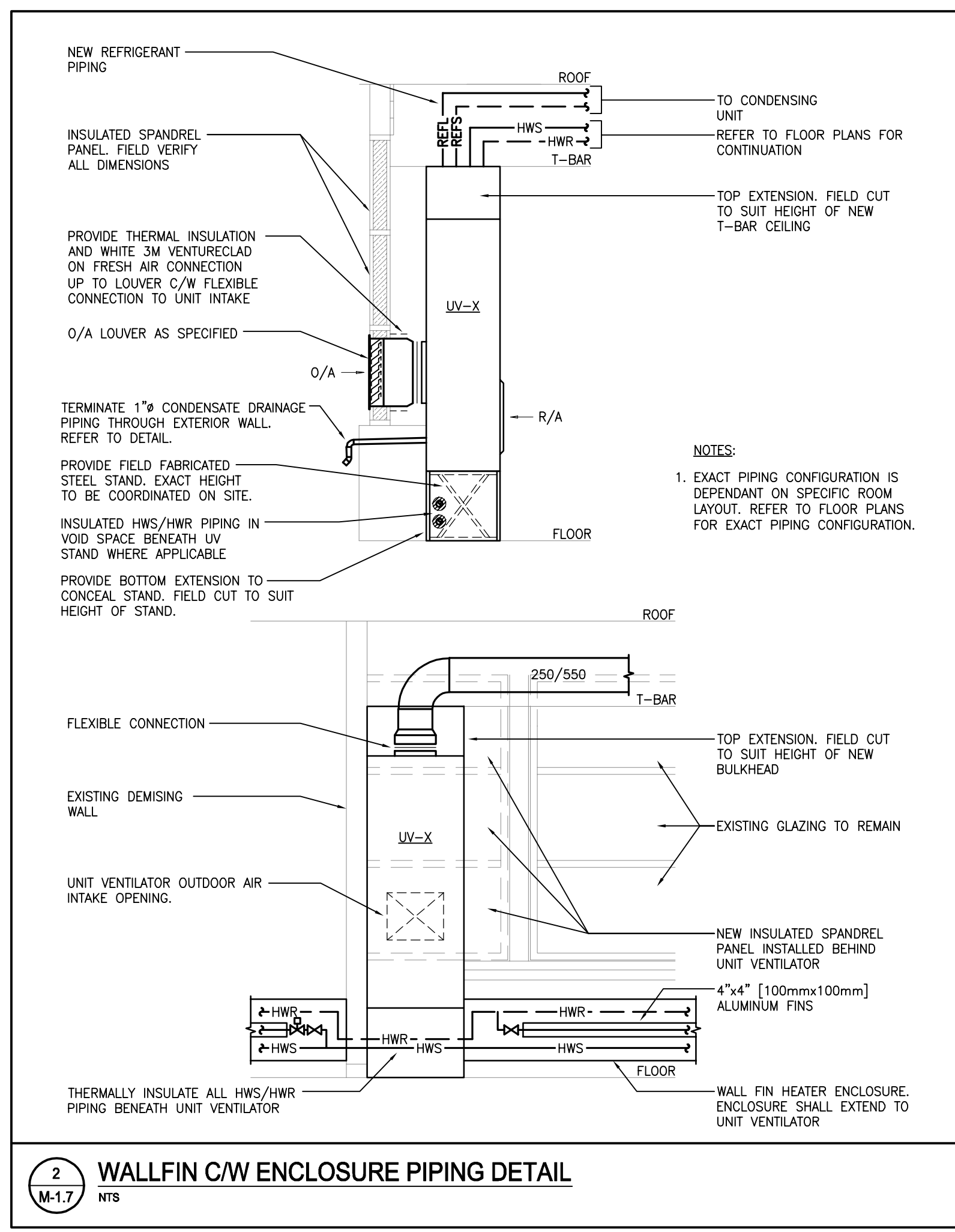
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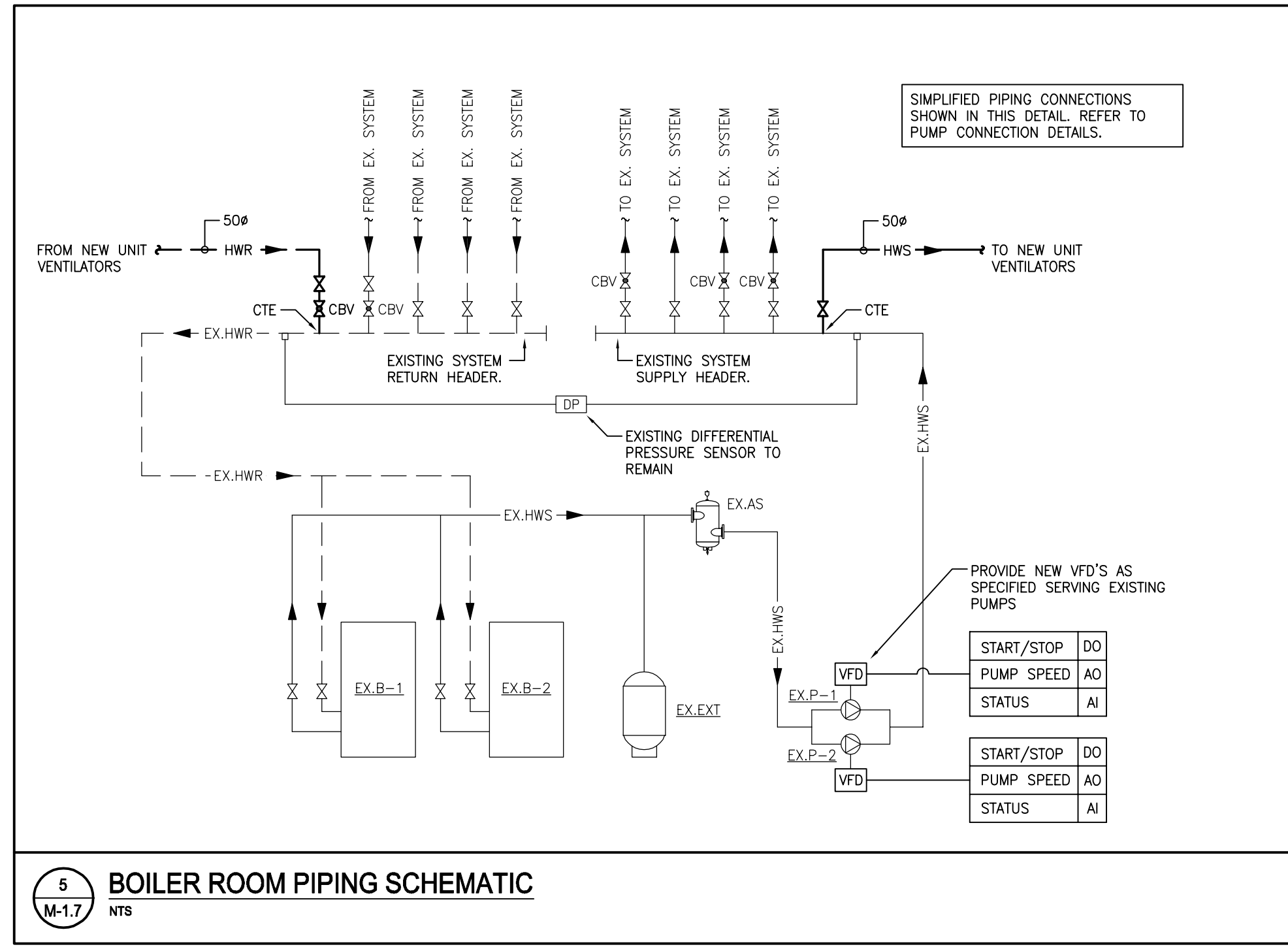
3 UNIT VENTILATOR AND WALLFIN CONTROL SCHEMATIC
 M-1.7 NTS



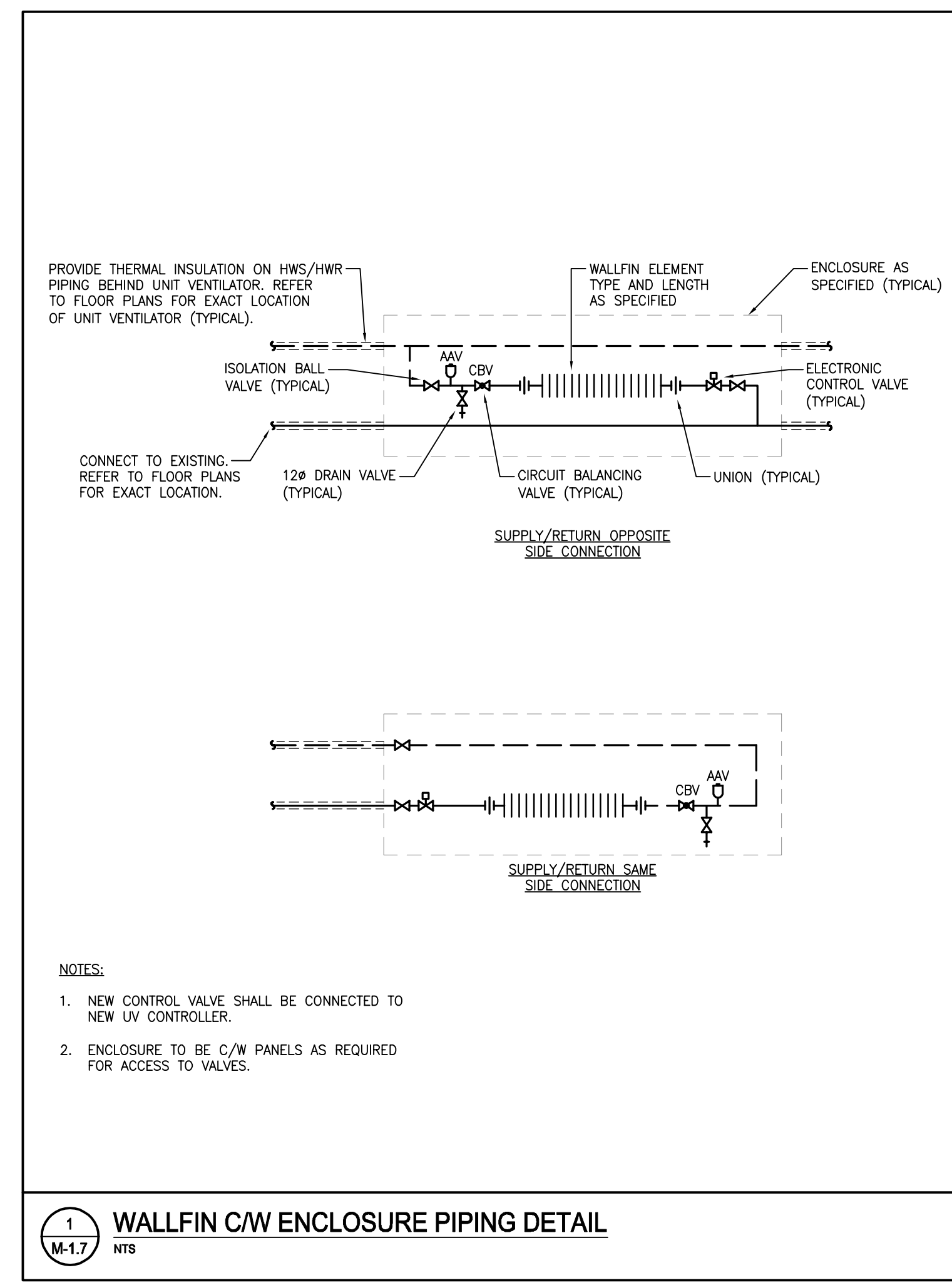
6 CONDENSATE DRAINAGE PIPING DETAIL
 M-1.7 NTS



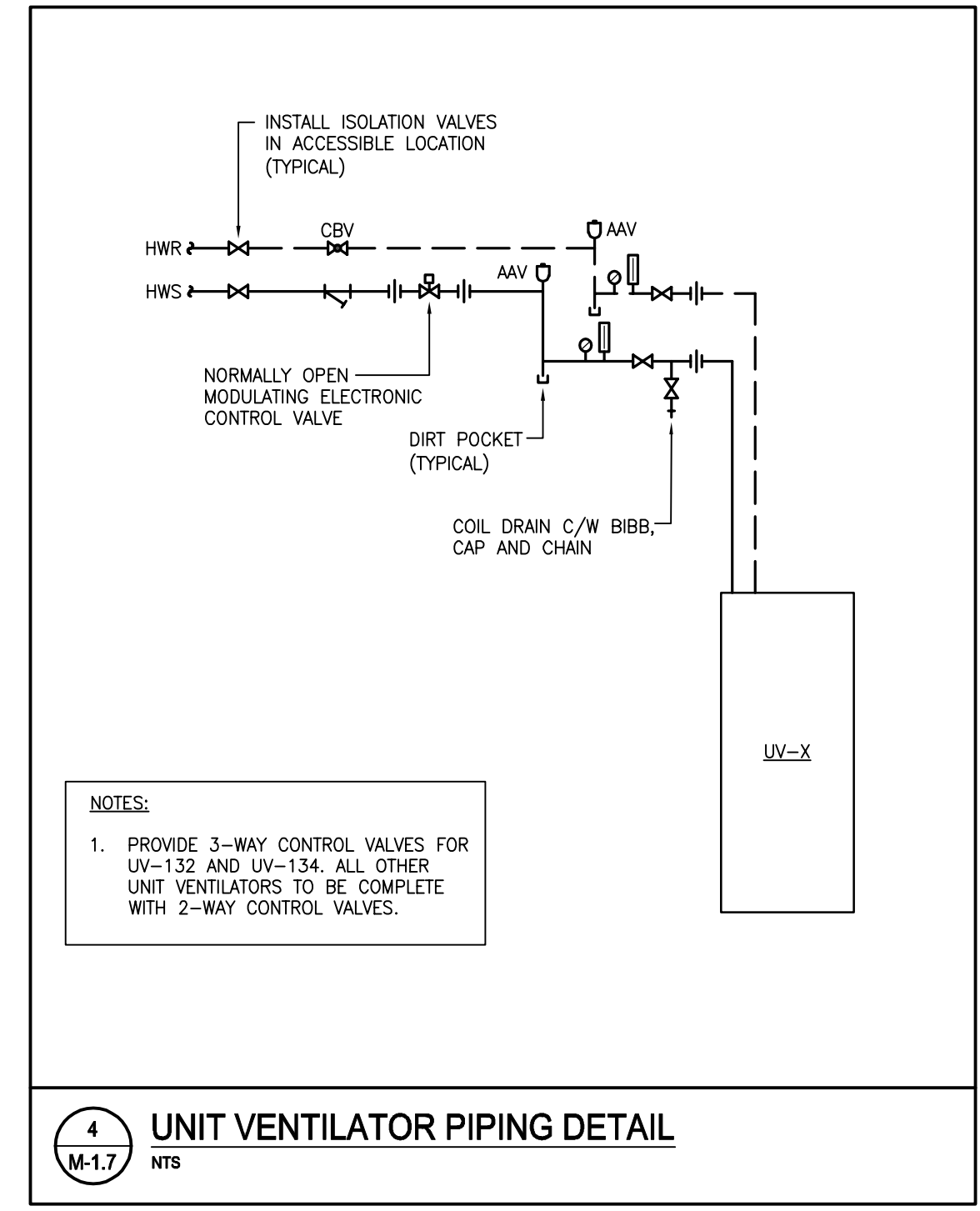
2 WALLFIN C/W ENCLOSURE PIPING DETAIL
 M-1.7 NTS



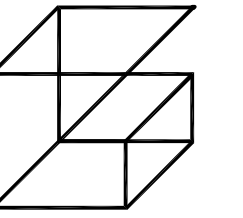
5 BOILER ROOM PIPING SCHEMATIC
 M-1.7 NTS



1 WALLFIN C/W ENCLOSURE PIPING DETAIL
 M-1.7 NTS



4 UNIT VENTILATOR PIPING DETAIL
 M-1.7 NTS



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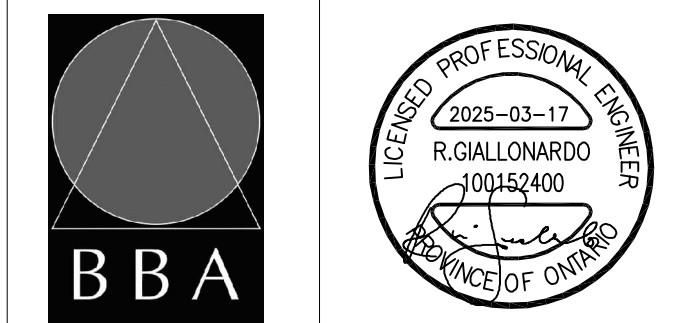
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PROJECT:
**RENOVATIONS AT
 ECOLE ELEMENTAIRE
 FELIX-LECLERC**

50 CELESTINE DRIVE
 TORONTO, ON

DRAWING:
**PART GROUND FLOOR
 DEMOLITION PLAN -
 HVAC**

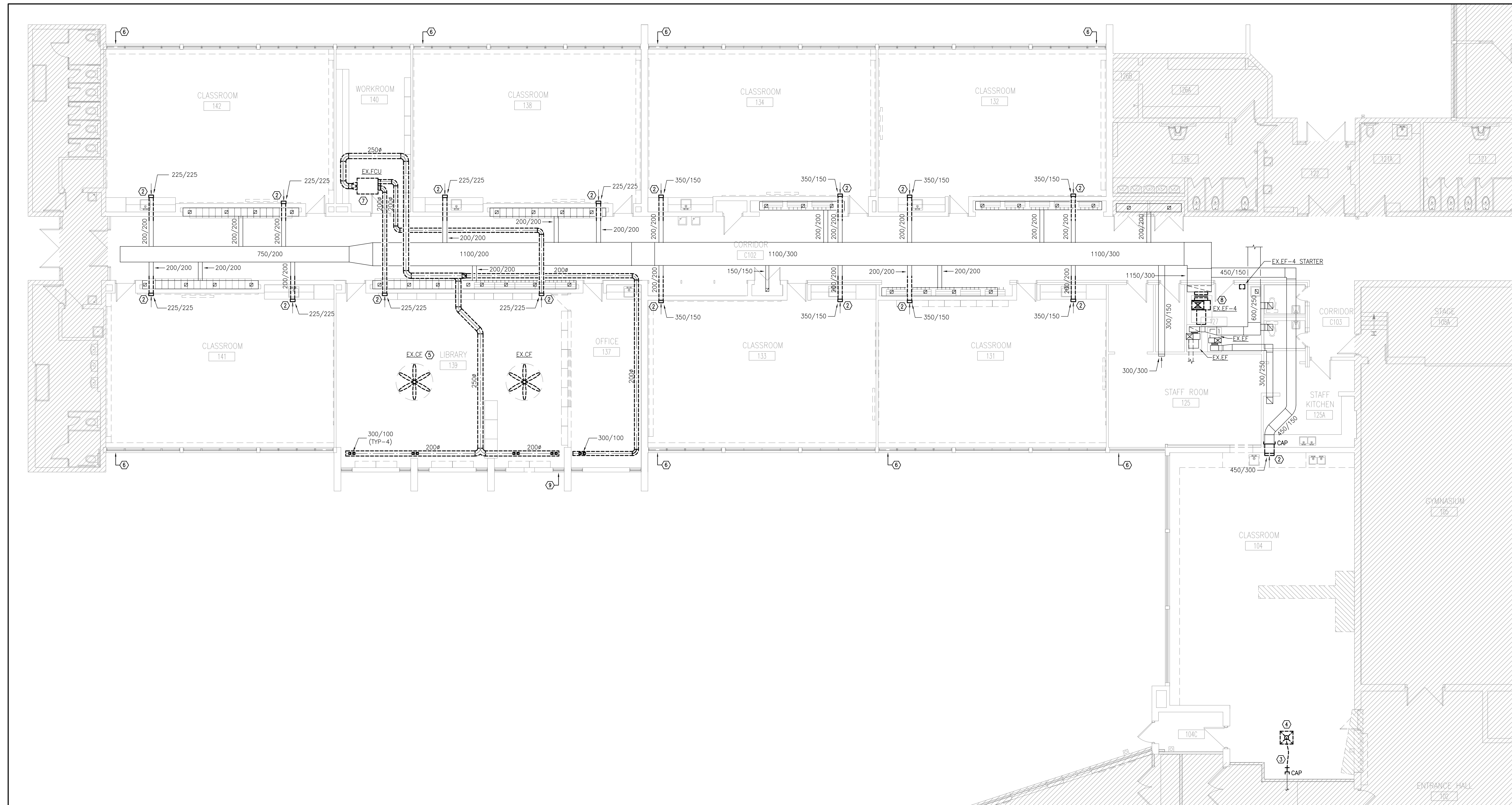


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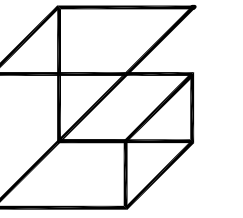
PROJECT NO: **24-182** DRAWING NO: **M-2.1**



1 PART FLOOR DEMOLITION PLAN - HVAC
 M-2.1 1:100

- DEMOLITION NOTES**
- EXISTING MAIN E/A DUCTWORK TO REMAIN (TYPICAL).
 - EXISTING WALL MOUNTED RETURN GRILLE TO BE REMOVED AND DISPOSED OF. REMOVE E/A DUCT BACK TO WHERE SHOWN AND PREPARE FOR CONNECTION OF NEW DUCTWORK. REFER TO NEW PLANS.
 - EXISTING S/A DUCTWORK TO BE REMOVED AND DISPOSED OF BACK TO WHERE SHOWN. CAP DUCT WHERE INDICATED.
 - EXISTING S/A SQUARE CONE DIFFUSER TO BE REMOVED AND DISPOSED OF.
 - EXISTING CEILING FAN, CONTROL WIRING, SWITCHES, MOUNTING HARDWARE, ETC. TO BE REMOVED AND DISPOSED OF (TYP-2).
 - REMOVE EXISTING GLAZING PANELS (3 TOTAL) FOR INSTALLATION OF NEW UNIT VENTILATOR. TURN GLAZING PANELS OVER TO OWNER. REFER TO ARCHITECTURAL DRAWINGS FOR SPECIFIC DETAILS.
 - EXISTING FAN COIL UNIT, R/A AND S/A DUCTWORK, HANGERS, ETC. TO BE REMOVED AND DISPOSED OF.
 - EXISTING EXHAUST FAN AND ASSOCIATED STARTER TO BE REMOVED AND DISPOSED OF. PREPARE DUCTWORK FOR NEW CONNECTION, REFER TO NEW PLANS AND DETAILS.

- GENERAL HVAC NOTES**
- PERFORM DEMOLITION WORK SO AS TO CAUSE MINIMAL DISTURBANCE TO OWNER AND/OR ADJACENT AREAS. MINIMIZE DUST AND NOISE AND PROVIDE TEMPORARY AIR FILTERS ON AIR HANDLING SYSTEMS AFFECT BY THE AREA OF WORK. ALL COSTS ASSOCIATED WITH DAMAGES AS A RESULT OF THE MECHANICAL DEMOLITION SHALL BE COVERED BY DIV.23. MAINTAIN SAFETY STANDARDS AND PROVIDE ADEQUATE SIGNAGE FOR BOTH WORKERS AND OCCUPANTS.
 - THE MECHANICAL DRAWINGS DISPLAY A GENERAL DESIGN AND INSTALLATION. THEREFORE, IF REQUIRED, THE CONTRACTOR SHALL OBTAIN CLARIFICATION FROM THE CONSULTANT PRIOR TO INSTALLATION.
 - THESE DRAWINGS HAVE BEEN PREPARED FOR DIV.23 AND DO NOT ACCURATELY DISPLAY ALL ELECTRICAL, STRUCTURAL AND ARCHITECTURAL ELEMENTS. REFER TO OTHER DIVISION'S DRAWINGS FOR CLARIFICATION.
 - THIS CONTRACTOR SHALL VISIT THE SITE AND COMPLETELY INVESTIGATE AND UNDERSTAND THE EXISTING CONDITIONS AND THEIR RELATION TO THE DESIGN DRAWINGS/DOCUMENTS. NO CONSIDERATION WILL BE GIVEN TO THE CONTRACTOR FOR ANY HINDRANCES TO THE MECHANICAL INSTALLATION FROM SITE CONDITIONS WHICH EXISTED PRIOR TO TENDER SUBMISSION, AS SUCH AND WHERE REQUIRED, THE CONTRACTOR SHALL PROVIDE INTERFERENCE DRAWINGS AND SHALL SUBMIT THEM TO THE CONSULTANT FOR REVIEW.



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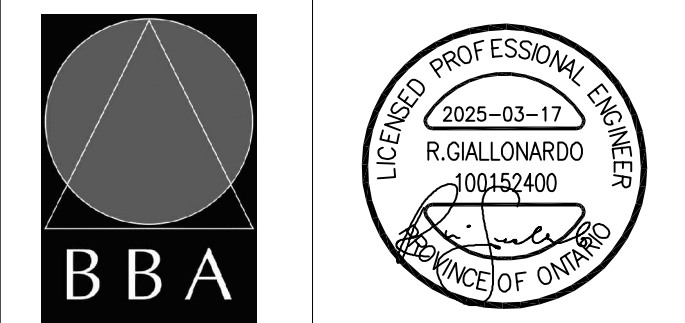
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PROJECT:
**RENOVATIONS AT
 ECOLE ELEMENTAIRE
 FELIX-LECLERC**

50 CELESTINE DRIVE
 TORONTO, ON

DRAWING:
**PART GROUND FLOOR
 DEMOLITION PLAN -
 HYDRONIC**

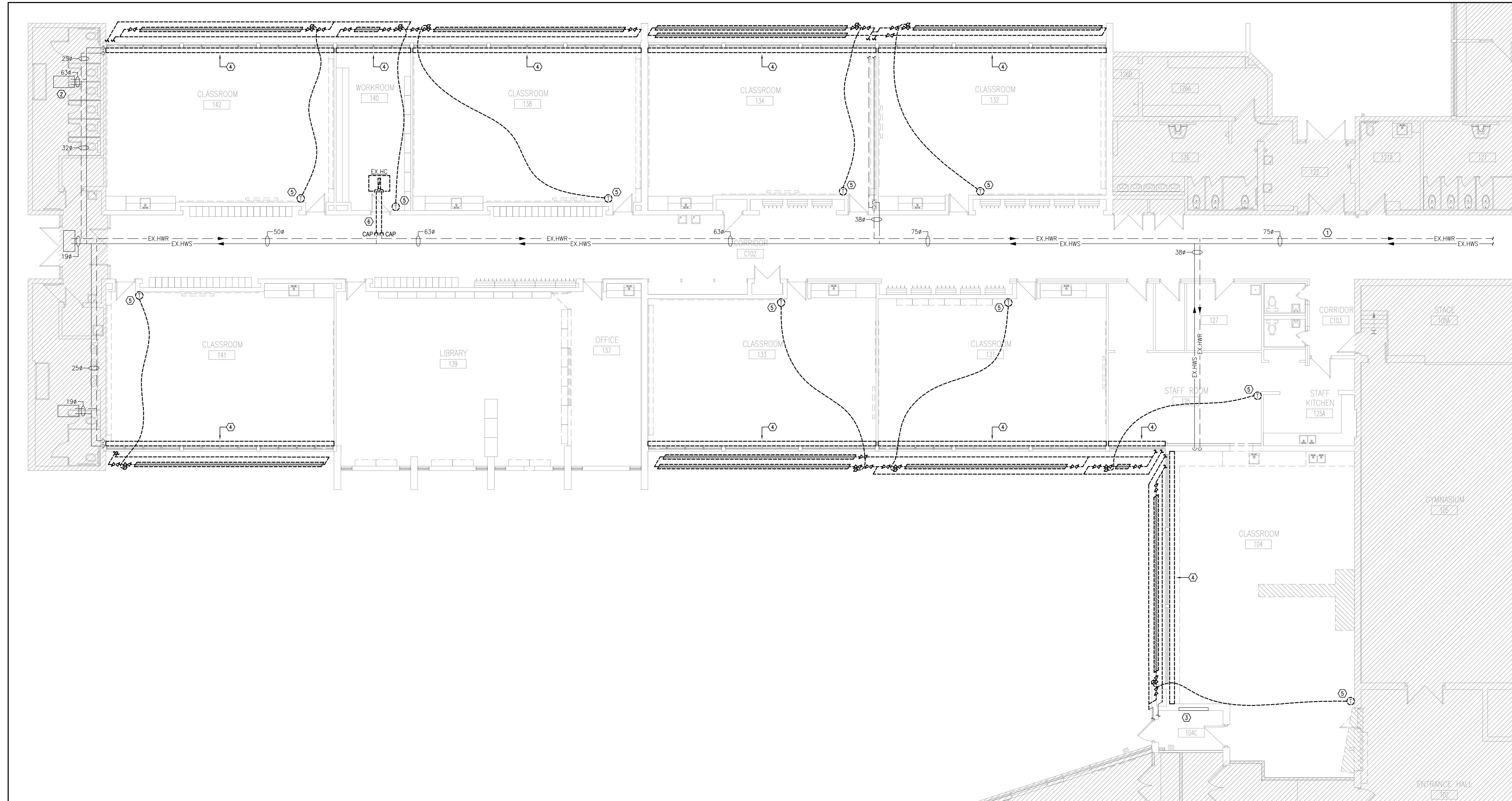


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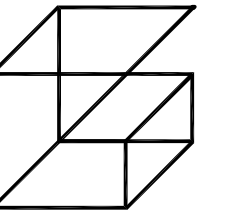
PROJECT NO: **24-182** DRAWING NO: **M-2.2**



1 PART GROUND FLOOR DEMOLITION PLAN - HYDRONIC
 M-2.2 1:100

DRAWING NOTES
① EXISTING HWS/HWR PIPING IN CEILING SPACE TO REMAIN (TYPICAL).
② EXISTING FAN COIL UNIT TO REMAIN (TYPICAL).
③ EXISTING CABINET CONVECTOR AND ASSOCIATED CONTROLS TO REMAIN. EXISTING HWS/HWR PIPING TO REMAIN.
④ EXISTING WALL HEATER ENCLOSURE, HWS/HWR PIPING, ISOLATION/CONTROL VALVES, CONTROLS, ETC. TO BE REMOVED AND DISPOSED OF. REMOVE HWS/HWR PIPING BACK TO WALL AS INDICATED AND PREPARE FOR CONNECTION OF NEW PIPING.
⑤ EXISTING THERMOSTAT TO BE REMOVED AND DISPOSED OF.
⑥ EXISTING HWS/HWR PIPING SERVING FAN COIL HEATING COIL TO BE REMOVED AND DISPOSED OF. CAP PIPING AT MAIN IN CORRIDOR CEILING SPACE.

GENERAL NOTES
1. PERFORM DEMOLITION WORK SO AS TO CAUSE MINIMAL DISTURBANCE TO OWNER AND/OR ADJACENT AREAS. MINIMIZE DUST AND NOISE AND PROVIDE TEMPORARY AIR FILTERS ON AIR HANDLING SYSTEMS AFFECT BY THE AREA OF WORK. ALL COSTS ASSOCIATED WITH DAMAGES AS A RESULT OF THE MECHANICAL DEMOLITION SHALL BE COVERED BY DIV.23. MAINTAIN SAFETY STANDARDS AND PROVIDE ADEQUATE SIGNAGE FOR BOTH WORKERS AND OCCUPANTS.
2. THE MECHANICAL DRAWINGS DISPLAY A GENERAL DESIGN AND INSTALLATION. THEREFORE, IF REQUIRED, THE CONTRACTOR SHALL OBTAIN CLARIFICATION FROM THE CONSULTANT PRIOR TO INSTALLATION.
3. THESE DRAWINGS HAVE BEEN PREPARED FOR DIV.23 AND DO NOT ACCURATELY DISPLAY ALL ELECTRICAL, STRUCTURAL AND ARCHITECTURAL ELEMENTS. REFER TO OTHER DIVISION'S DRAWINGS FOR CLARIFICATION.
4. THIS CONTRACTOR SHALL VISIT THE SITE AND COMPLETELY INVESTIGATE AND UNDERSTAND THE EXISTING CONDITIONS AND THEIR RELATION TO THE DESIGN DRAWINGS/DOCUMENTS. NO CONSIDERATION WILL BE GIVEN TO THE CONTRACTOR FOR ANY HINDRANCES TO THE MECHANICAL INSTALLATION FROM SITE CONDITIONS WHICH EXISTED PRIOR TO TENDER SUBMISSION. AS SUCH AND WHERE REQUIRED, THE CONTRACTOR SHALL PROVIDE INTERFERENCE DRAWINGS AND SHALL SUBMIT THEM TO THE CONSULTANT FOR REVIEW.



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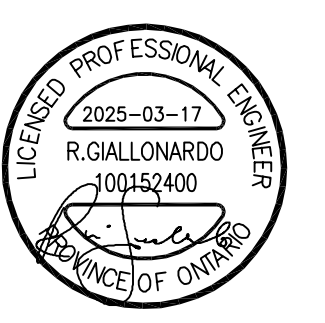
PROJECT:
RENOVATIONS AT
ECOLE ELEMENTAIRE
FELIX-LECLERC

50 CELESTINE DRIVE
 TORONTO, ON

DRAWING:
PART GROUND FLOOR
NEW PLAN - HVAC

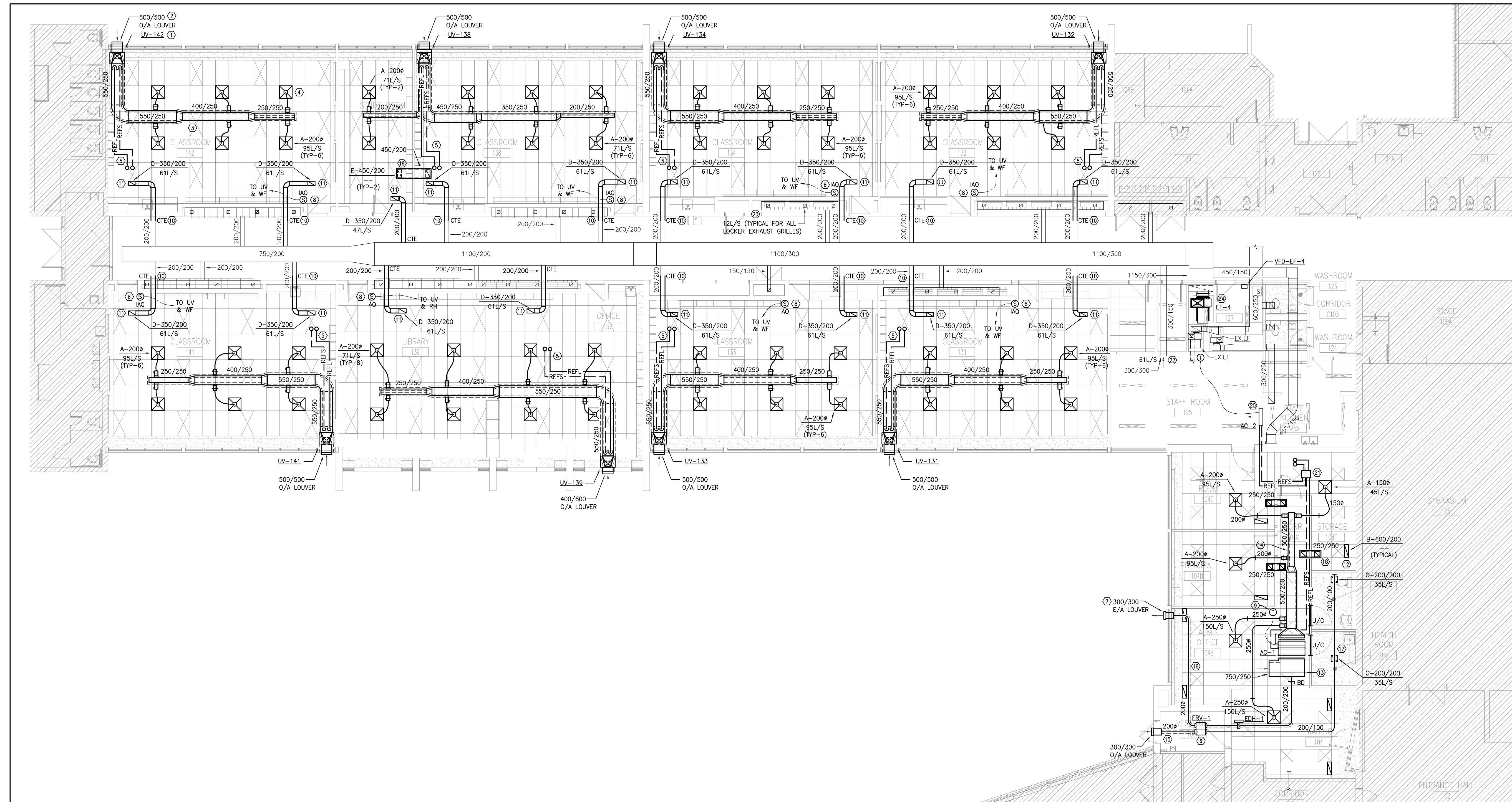


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PROJECT NO: **24-182**
 DRAWING NO: **M-2.3**



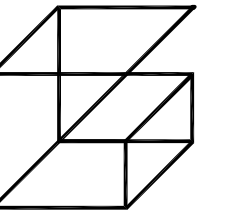
1 PART GROUND FLOOR NEW PLAN - HVAC
 M-2.3 1:100

- HVAC NOTES**
- PROVIDE NEW UNIT VENTILATOR C/W HYDRONIC HEATING COIL AND DX COOLING COIL AS SPECIFIED INSTALLED ON FLOOR. PROVIDE CONDENSATE DRAINAGE PIPING AND TERMINATE THROUGH EXTERIOR WALL. REFER TO DETAILS FOR INSTALLATION SPECIFICS (TYPICAL).
 - PROVIDE VENTEX MODEL 2415A HIGH PERFORMANCE LOUVER C/W BIRDSCREEN AND BACKDRAFT DAMPER (TYPICAL).
 - PROVIDE NEW ACOUSTICALLY LINED AND THERMALLY INSULATED S/A DUCTWORK IN CEILING SPACE SERVING UNIT VENTILATOR (TYPICAL).
 - PROVIDE NEW SQUARE CONE S/A DIFFUSER AS SPECIFIED. BALANCE AS INDICATED (TYPICAL).
 - PROVIDE REFRIGERANT PIPING IN CEILING SPACE SERVING DX COIL. ROUTE REFRIGERANT PIPING TO CONDENSING UNIT ON ROOF. EXACT ROUTING TO BE COORDINATED ON SITE. PROVIDE NEW ROOF PENETRATION AND SEAL WEATHER TIGHT TO BASE BUILDING STANDARDS. REFER TO DRAWING M-2.4 FOR CONTINUATION OF ROOF MOUNTED PIPING.
 - PROVIDE NEW ERV UNIT AS SPECIFIED INSTALLED IN CEILING SPACE. INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS AND ENSURE ALL RECOMMENDED CLEARANCES FOR ACCESS/MAINTENANCE ARE ACHIEVED.
 - PROVIDE 300/300 VENTEX MODEL 2415A HIGH PERFORMANCE LOUVER C/W BIRDSCREEN AND BACKDRAFT DAMPER (TYP-2).

- HVAC NOTES**
- PROVIDE NEW IAQ TEMPERATURE SENSOR WITH DIGITAL DISPLAY TO MATCH BASE BUILDING AND CONNECTED TO EXISTING BAS. THIS SENSOR TO REPORT BACK TO BAS FOR CONTROL OF UNIT VENTILATOR UNIT AND WALLFAN HEATER. COORDINATE EXACT LOCATION OF SENSOR ON SITE.
 - NEW MANUFACTURER PROVIDED PROGRAMMABLE THERMOSTAT SERVING AC UNIT. CONNECT TO EXISTING BAS.
 - EXTEND EXHAUST DUCTWORK INTO CLASSROOM. REWORK DUCTWORK ON CORRIDOR SIDE TO PENETRATE CORRIDOR WALL AS HIGH AS POSSIBLE IN CEILING SPACE.
 - PROVIDE NEW EXHAUST GRILLE IN NEW T-BAR CEILING. CONNECT TO EXISTING EXHAUST DUCT IN CEILING SPACE.
 - PROVIDE NEW EGG CRATE RETURN GRILLE AS SPECIFIED. SIZE AS INDICATED (TYPICAL).
 - TERMINATE ACOUSTICALLY LINED R/A DUCTWORK OPEN ENDED IN CEILING SPACE. R/A DUCT SIZE TO MATCH UNIT R/A OPENING (TYPICAL).
 - PROVIDE NEW ACOUSTICALLY LINED S/A DUCTWORK IN CEILING SPACE (TYPICAL).
 - PROVIDE NEW O/A DUCTWORK FROM CEILING MOUNTED ERV C/W THERMAL AND ACOUSTIC INSULATION.
 - PROVIDE NEW E/A DUCTWORK FROM CEILING MOUNTED ERV C/W THERMAL AND ACOUSTIC INSULATION. MAINTAIN 10FT. CLEARANCE FROM O/A INTAKE LOUVER.

- HVAC NOTES**
- PROVIDE NEW EXHAUST GRILLE IN DRYWALL CEILING AS SPECIFIED. SIZE AND BALANCE AS INDICATED (TYP-2).
 - PROVIDE NEW 250/250 ACOUSTICALLY LINED TRANSFER DUCT IN CEILING SPACE ABOVE. REFER TO DETAILS.
 - PROVIDE NEW ACOUSTICALLY LINED TRANSFER DUCT THROUGH BLOCK WALL IN CEILING SPACE C/W GRILLE IN NEW T-BAR CEILING AS SPECIFIED. REFER TO DETAILS.
 - PROVIDE NEW WALL MOUNT AC UNIT AS SPECIFIED C/W ALL MOUNTING HARDWARE, BRACKETS, ETC. PROVIDE NEW REFRIGERANT PIPING TO DISTRIBUTION UNIT AS SHOWN. EXACT PIPE ROUTING TO BE CONFIRMED ON SITE.
 - PROVIDE NEW REFRIGERANT DISTRIBUTION UNIT EQUAL TO LG FOUR-PORT BRANCH DISTRIBUTION UNIT PMBD3641.
 - EXISTING WALL MOUNT E/A LOUVER AT HIGH LEVEL. REBALANCE AS INDICATED.
 - EXISTING LOCKER EXHAUST GRILLE. REBALANCE AS INDICATED (TYPICAL).
 - PROVIDE NEW EXHAUST FAN AS SPECIFIED INSTALLED ON EXISTING CONCRETE HOUSEKEEPING PAD. PROVIDE NEW VFD C/W INTEGRAL DISCONNECT AND BYPASS SUPPLIED BY FAN MANUFACTURER. CONNECT TO EXISTING BAS. REFER TO DETAILS.

- GENERAL HVAC NOTES**
- THE MECHANICAL DRAWINGS DISPLAY A GENERAL DESIGN AND INSTALLATION. THEREFORE, IF REQUIRED, THE CONTRACTOR SHALL OBTAIN CLARIFICATION FROM THE CONSULTANT PRIOR TO INSTALLATION.
 - THESE DRAWINGS HAVE BEEN PREPARED FOR DIV.23 AND DO NOT ACCURATELY DISPLAY ALL ELECTRICAL, STRUCTURAL AND ARCHITECTURAL ELEMENTS. REFER TO OTHER DIVISION'S DRAWINGS FOR CLARIFICATION.
 - THIS CONTRACTOR SHALL VISIT THE SITE AND COMPLETELY INVESTIGATE AND UNDERSTAND THE EXISTING CONDITIONS AND THEIR RELATION TO THE DESIGN DRAWINGS/DOCUMENTS. NO CONSIDERATION WILL BE GIVEN TO THE CONTRACTOR FOR ANY HINDRANCES TO THE MECHANICAL INSTALLATION FROM SITE CONDITIONS WHICH EXISTED PRIOR TO TENDER SUBMISSION. AS SUCH AND WHERE REQUIRED, THE CONTRACTOR SHALL PROVIDE INTERFERENCE DRAWINGS AND SHALL SUBMIT THEM TO THE CONSULTANT FOR REVIEW.
 - ALL MECHANICAL SERVICES, INCLUDING BUT NOT LIMITED TO, DUCTWORK, PIPING, EQUIPMENT, ETC. SHALL NOT BE SUSPENDED FROM ROOF DECK. ALL SERVICES TO BE SUSPENDED FROM ENGINEERED UNISTRUT SUPPORT SYSTEM SECURED TO SURROUNDING WALLS AND STRUCTURAL BEAMS. REFER TO ARCHITECTURAL/STRUCTURAL DRAWINGS.
 - PROVIDE UL/C LISTED FIRESTOPPING AT ALL WALL/FLOOR PENETRATIONS REGARDLESS OF WALL RATING.



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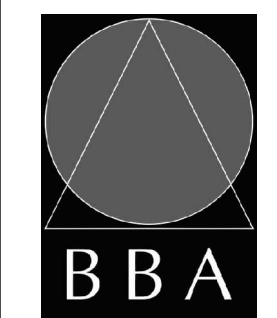
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1	ISSUED FOR PERMIT	FEB. 21 2025	RC
2	ISSUED FOR PERMIT & TENDER	MAR. 17 2025	SW

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PROJECT:
**RENOVATIONS AT
 ECOLE ELEMENTAIRE
 FELIX-LECLERC**

50 CELESTINE DRIVE
 TORONTO, ON

DRAWING:
**PART ROOF NEW PLAN -
 HVAC**

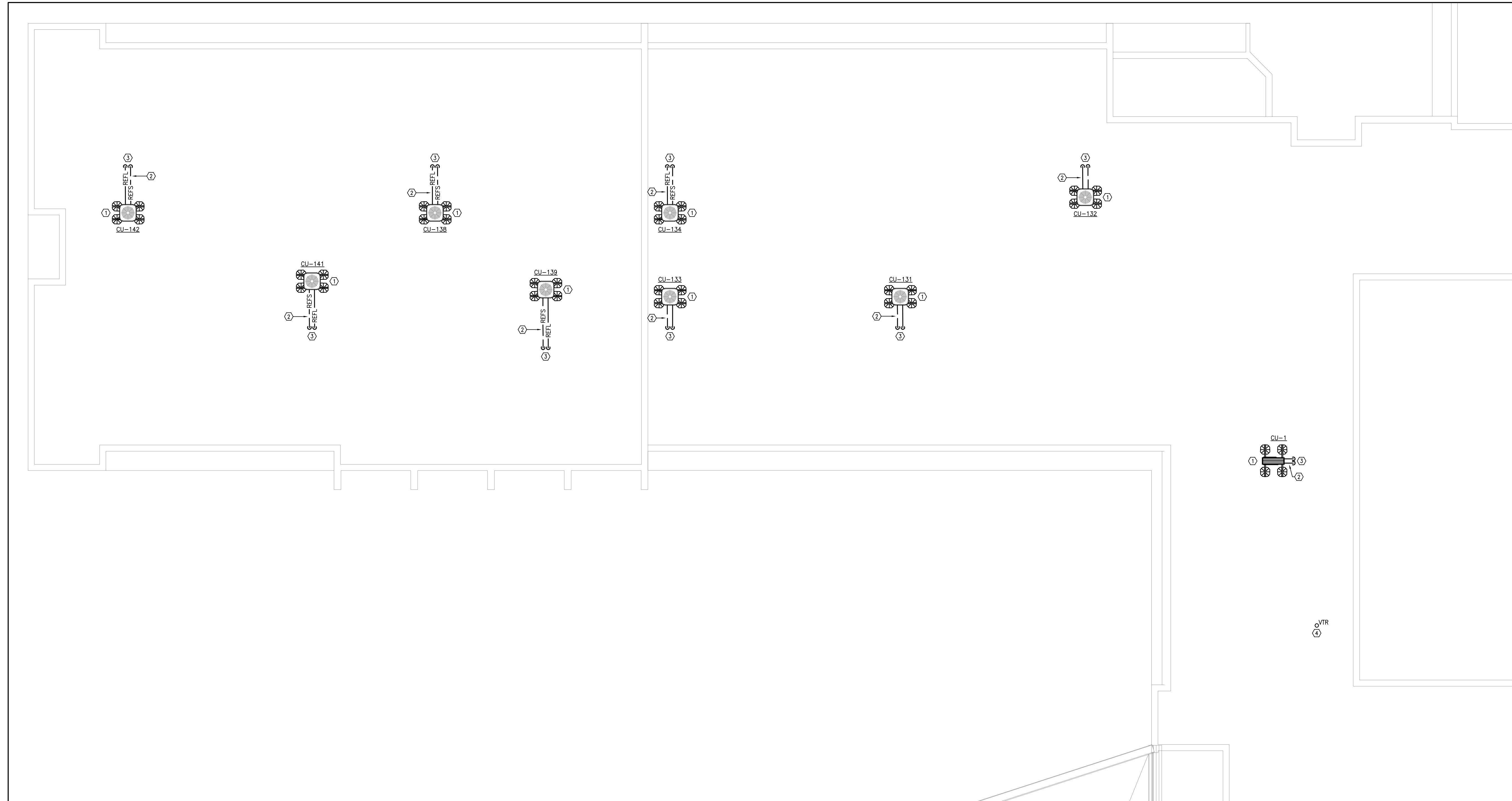


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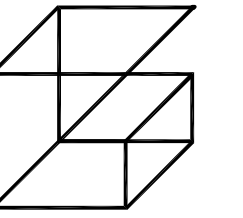
PROJECT NO: **24-182** DRAWING NO: **M-2.4**



1 PART ROOF NEW PLAN - HVAC
 M-2.4 1:100

- HVAC NOTES**
1. PROVIDE NEW CONDENSING UNIT AS SPECIFIED C/W ECOFOOT STAND. STAND FEET SHALL BE INSTALLED ON 25MM RIGID BOARD INSULATION TOPPED WITH A PATIO PAPER. ROUTE REFRIGERANT LINE SET TO INDOOR UNITS. EXACT ROUTING TO BE DETERMINED ON SITE. INSTALL IN ACCORDANCE WITH CSA B52 AND MANUFACTURER'S INSTALLATION INSTRUCTIONS.
 2. NEW ROOF MOUNTED REFRIGERANT PIPING. PROVIDE PIPING SUPPORTS EQUAL TO EATON DURA-BLOK B-LINE SERIES ROOF SUPPORT SYSTEM. PROVIDE INSULATION AND JACKETING AS PER MECHANICAL SPECIFICATIONS.
 3. NEW REFRIGERANT PIPING DOWN THROUGH ROOF C/W PITCH POCKET AT ROOF PENETRATION. SEAL WEATHER TIGHT TO BASE BUILDING STANDARDS.
 4. PROVIDE NEW VENT THRU ROOF. REFER TO DETAILS.

- GENERAL HVAC NOTES**
1. THE MECHANICAL DRAWINGS DISPLAY A GENERAL DESIGN AND INSTALLATION. THEREFORE, IF REQUIRED, THE CONTRACTOR SHALL OBTAIN CLARIFICATION FROM THE CONSULTANT PRIOR TO INSTALLATION.
 2. THESE DRAWINGS HAVE BEEN PREPARED FOR DIV.23 AND DO NOT ACCURATELY DISPLAY ALL ELECTRICAL, STRUCTURAL AND ARCHITECTURAL ELEMENTS. REFER TO OTHER DIVISION'S DRAWINGS FOR CLARIFICATION.
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 4. ALL MECHANICAL SERVICES, INCLUDING BUT NOT LIMITED TO, DUCTWORK, PIPING, EQUIPMENT, ETC. SHALL NOT BE SUSPENDED FROM ROOF DECK. ALL SERVICES TO BE SUSPENDED FROM ENGINEERED UNISTRUT SUPPORT SYSTEM SECURED TO SURROUNDING WALLS AND STRUCTURAL BEAMS. REFER TO ARCHITECTURAL/STRUCTURAL DRAWINGS.
 5. PROVIDE ULC LISTED FIRESTOPPING AT ALL WALL/FLOOR PENETRATIONS REGARDLESS OF WALL RATING.



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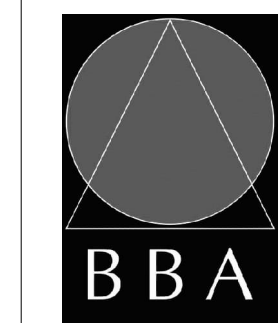
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2	ISSUED FOR PERMIT & TENDER	MAR. 17 2025	SW

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PROJECT:
**RENOVATIONS AT
ECOLE ELEMENTAIRE
FELIX-LECLERC**

50 CELESTINE DRIVE
TORONTO, ON

DRAWING:
**PART GROUND FLOOR
NEW PLAN -
HYDRONIC**



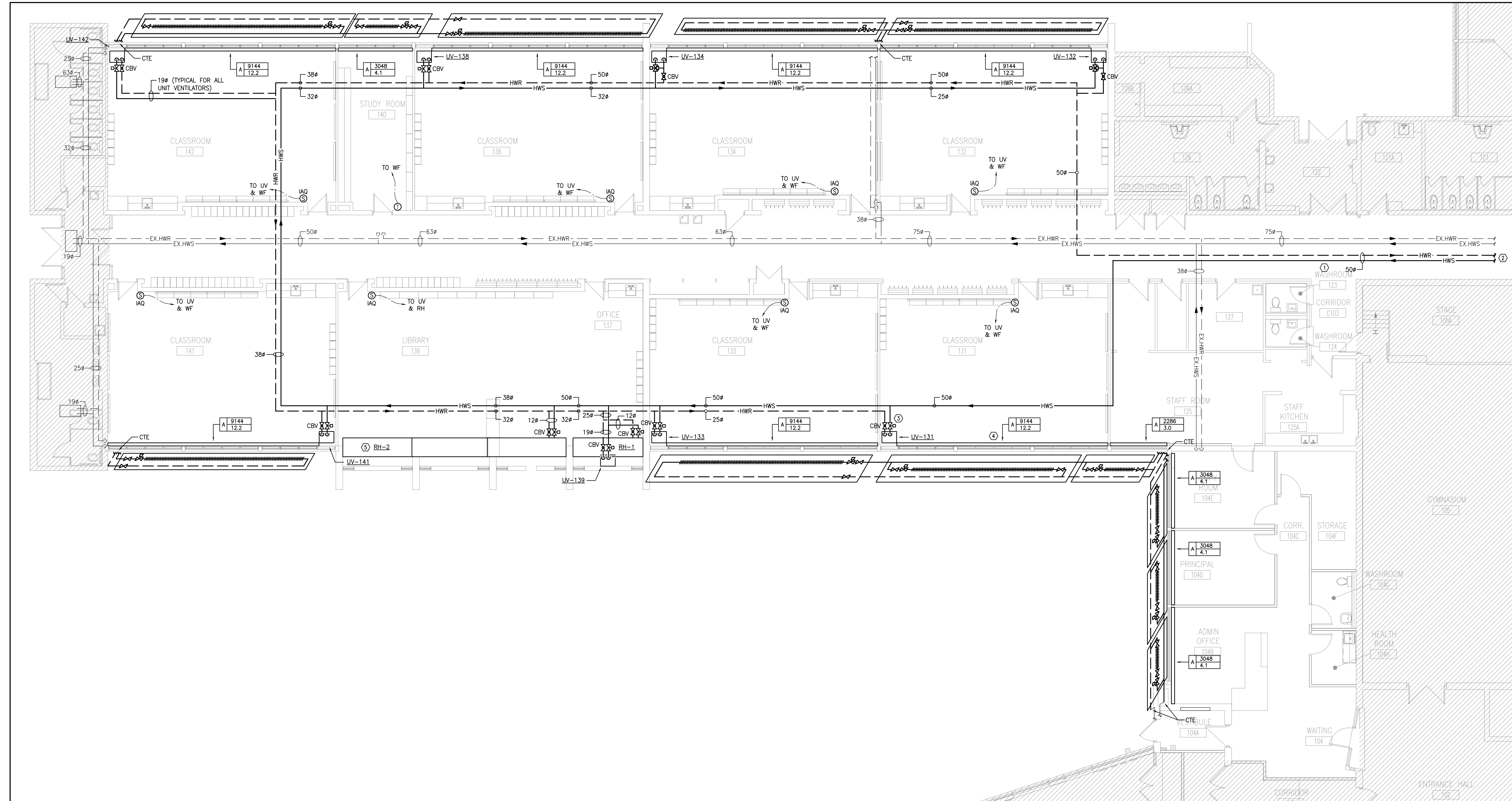
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DATE: JAN 2025
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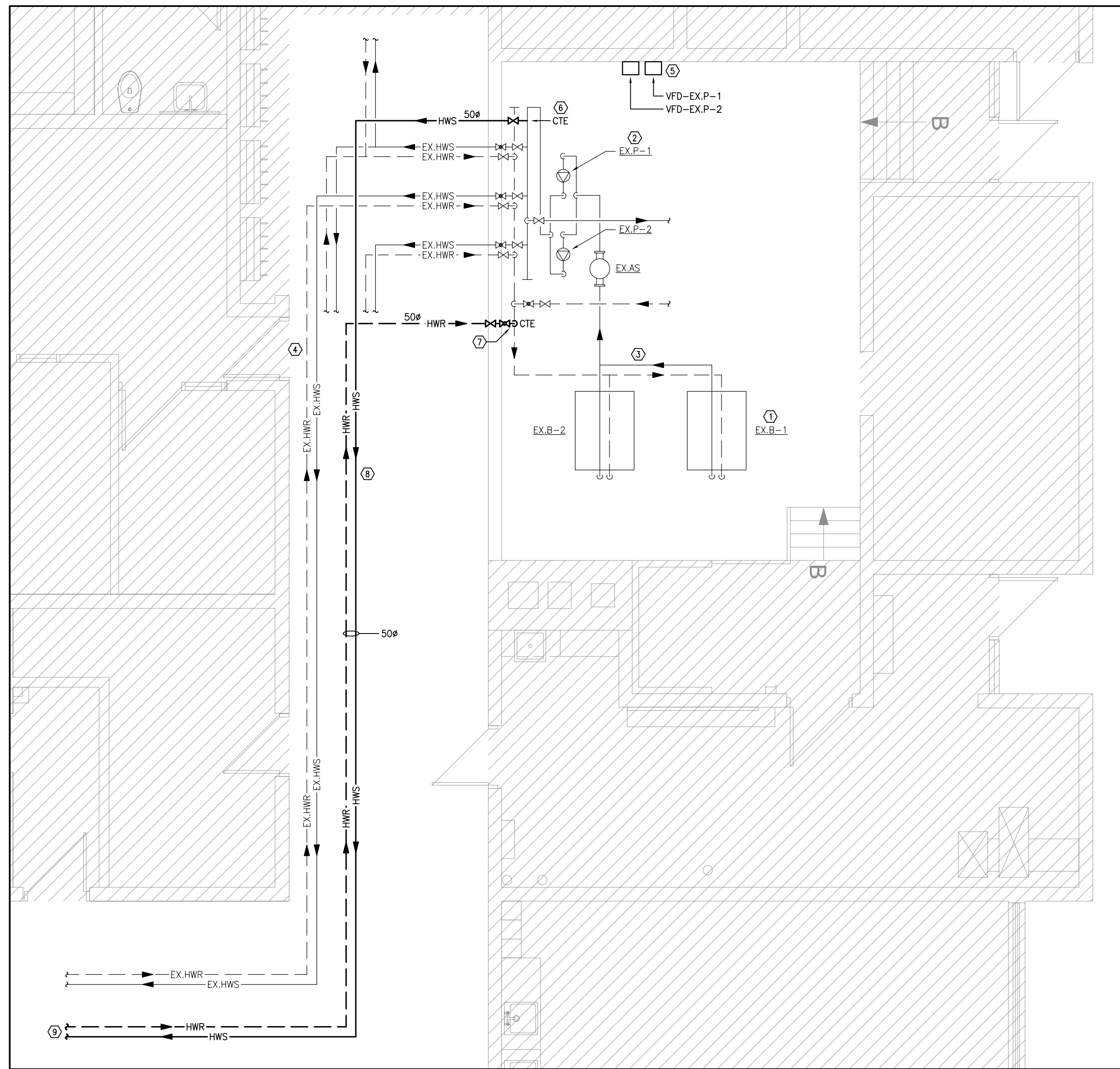
PROJECT NO: **24-182**
DRAWING NO: **M-2.5**



1 PART GROUND FLOOR NEW PLAN - HYDRONIC
M-2.5 1:100

- DRAWING NOTES**
- PROVIDE NEW HWS/HWR PIPING IN CEILING SPACE (TYPICAL).
 - NEW 50ø HWS/HWR PIPING TO BOILER ROOM. REFER TO DRAWING 1/M-2.6 FOR CONTINUATION OF PIPING.
 - NEW HWS/HWR PIPING TO UNIT VENTILATOR C/W ELECTRONIC CONTROL VALVE AND CIRCUIT BALANCING VALVE. INTERLOCK NEW CV WITH EXISTING BAS. REFER TO DETAILS (TYPICAL).
 - PROVIDE NEW HYDRONIC WALLFIN HEATER AS SPECIFIED. PROVIDE NEW HWS/HWR PIPING, VALVES, ETC. AS PER MECHANICAL DETAILS. CONNECT TO EXISTING HWS/HWR PIPING WHERE SHOWN. ENCLOSURE LENGTH SHALL SPAN WALL TO WALL UNLESS OTHERWISE NOTED. INTERLOCK NEW CV WITH EXISTING BAS. REFER TO DETAILS (TYPICAL).
 - PROVIDE NEW CEILING MOUNTED RADIANT PANEL AS SPECIFIED C/W ALL HANGERS AND SUPPORTS AS REQUIRED. REFER TO DETAILS (TYP-2).

- GENERAL NOTES**
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 - PROVIDE ULC LISTED FIRESTOPPING AT ALL WALL/FLOOR PENETRATIONS REGARDLESS OF WALL RATING.

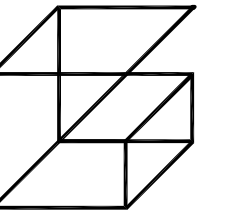


1 BOILER ROOM NEW PLAN - HYDRONIC
M-2.6 1:50

- DRAWING NOTES**
- ① EXISTING BOILER TO REMAIN (TYP-2).
 - ② EXISTING BUILDING SYSTEM PUMP TO REMAIN (TYP-2).
 - ③ EXISTING HWS/HWR PIPING IN BOILER ROOM TO REMAIN (TYPICAL).
 - ④ EXISTING HWS/HWR PIPING IN CEILING SPACE TO REMAIN (TYPICAL).
 - ⑤ EXISTING H/O/A PANELS SERVING PUMPS P-1 AND P-2 TO BE REMOVED AND DISPOSED OF. PROVIDE TWO (2) NEW 5HP IVS-102 VFD'S C/W INTEGRAL DISCONNECT AND BYPASS. CONNECT NEW VFD'S TO EXISTING POWER, PUMPS, BAS CONTACTS, ETC. REFER TO PIPING SCHEMATIC.
 - ⑥ PROVIDE NEW HWS PIPING AT HIGH LEVEL. CONNECT TO EXISTING 100Ø HWS HEADER WHERE SHOWN C/W ISOLATION VALVE.
 - ⑦ PROVIDE NEW HWR PIPING AT HIGH LEVEL. CONNECT TO EXISTING 100Ø HWR HEADER WHERE SHOWN C/W ISOLATION VALVE AND CIRCUIT BALANCING VALVE.
 - ⑧ PROVIDE NEW HWS/HWR PIPING IN CEILING SPACE (TYPICAL).
 - ⑨ NEW 50Ø HWS/HWR PIPING TO NEW UNIT VENTILATORS. REFER TO DRAWING 1/M-2.5 FOR CONTINUATION OF PIPING.

- GENERAL NOTES**
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 5. PROVIDE ULC LISTED FIRESTOPPING AT ALL WALL/FLOOR PENETRATIONS REGARDLESS OF WALL RATING.

- SEQUENCE OF OPERATIONS**
1. PUMPS EX.P-1 AND EX.P-2
 - 1.1. CIRCULATION PUMPS P-1 AND P-2 SHALL OPERATE IN LEAD-LAG CONFIGURATION. THEY WILL SWITCH THE LEAD PUMP WEEKLY. IN THE EVENT THE LEAD PUMP FAILS, THE LAG PUMP WILL START AND AN ALARM WILL BE SENT TO THE BAS. PUMP(S) WILL ONLY START WHEN THE BAS DETERMINES THERE IS A CALL FOR HEAT AND HEATING COIL VALVES IN THE SYSTEM ARE OPEN.
 - 1.2. PUMP SPEED TO OPERATE BASED ON DIFFERENTIAL PRESSURE SETPOINT VIA FEEDBACK FROM EXISTING DIFFERENTIAL PRESSURE SENSOR. BALANCING CONTRACTOR TO DETERMINE SETPOINT DURING COMMISSIONING.



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PROJECT:
RENOVATIONS AT ECOLE ELEMENTAIRE FELIX-LECLERC
50 CELESTINE DRIVE
TORONTO, ON

DRAWING:
BOILER ROOM NEW PLAN - HYDRONIC

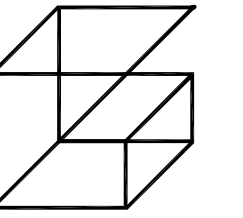


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PROJECT NO: **24-182** DRAWING NO: **M-2.6**



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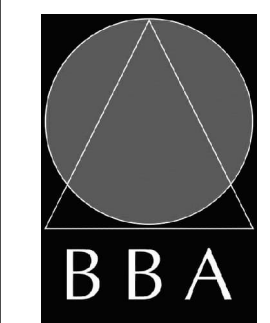
PROJECT:

**RENOVATIONS AT
 ECOLE ELEMENTAIRE
 FELIX-LECLERC**

50 CELESTINE DRIVE
 TORONTO, ON

DRAWING:

**PART GROUND FLOOR
 DEMOLITION PLAN -
 PLUMBING & DRAINAGE**

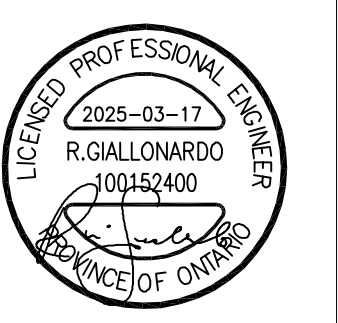


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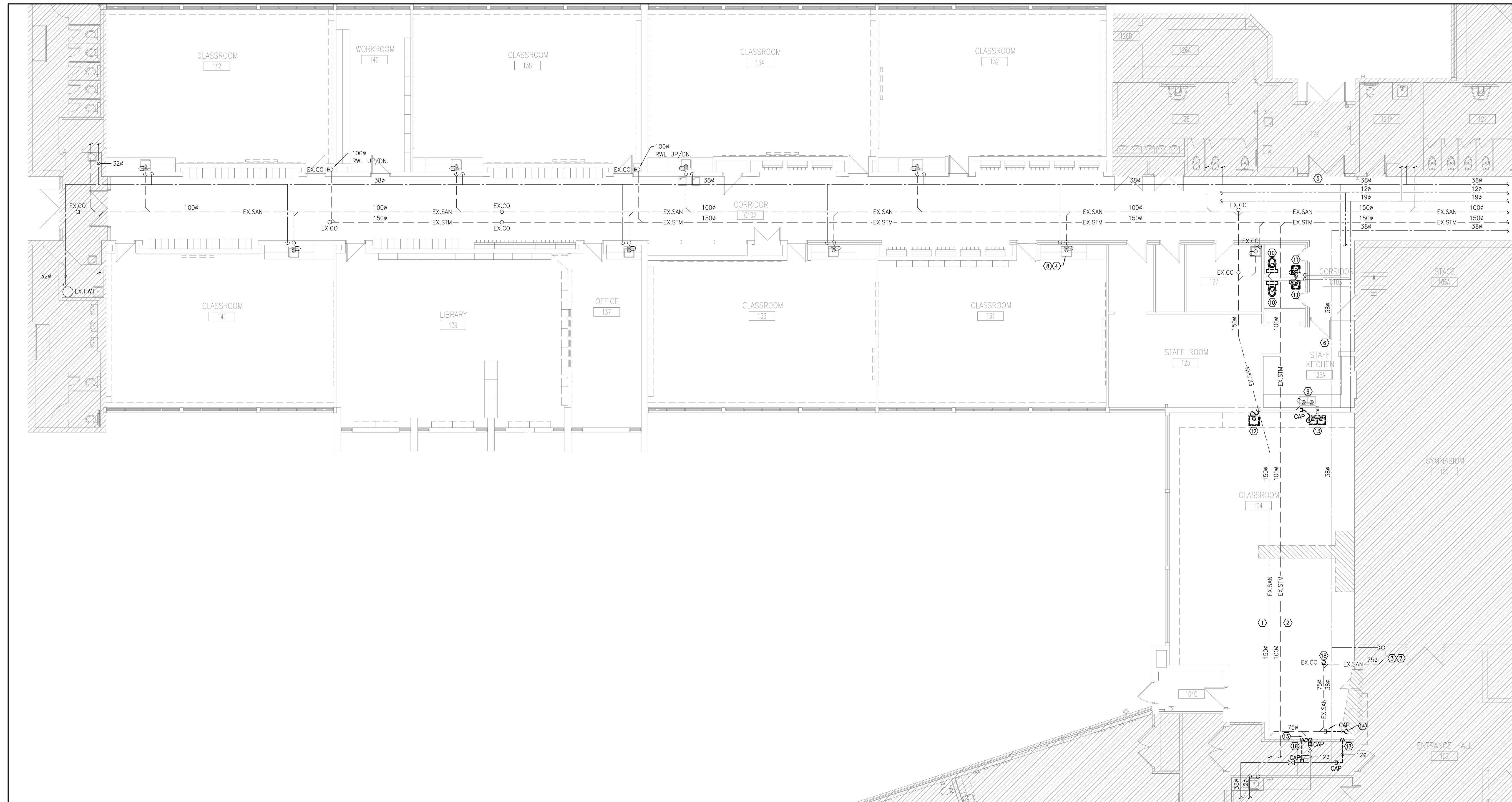
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24-182

DRAWING NO:

M-3.1



1 PART GROUND FLOOR DEMOLITION PLAN - PLUMBING & DRAINAGE
 M-3.1 1:50

DEMOLITION NOTES

- APPROXIMATE LOCATION OF EXISTING UNDERGROUND SANITARY DRAINAGE PIPING. CONTRACTOR TO VERIFY EXACT LOCATION PRIOR TO CONSTRUCTION. INCLUDE FOR SCOOPING AND LOCATING SERVICES AS REQUIRED. PROVIDE A DRAWING INDICATING THE ROUTING, DIRECTIONS AND INVERTS OF EXISTING UNDERGROUND PIPING TO ENGINEER FOR REVIEW (TYPICAL).
- EXISTING BURIED STORM DRAINAGE PIPING TO REMAIN (TYPICAL).
- EXISTING SANITARY DRAINAGE PIPING SERVING DRINKING FOUNTAIN TO REMAIN (TYPICAL).
- EXISTING SANITARY DRAINAGE PIPING SERVING SINK TO REMAIN (TYPICAL).
- EXISTING DCW/DHW/DHWR PIPING IN CORRIDOR CEILING SPACE TO REMAIN (TYPICAL).
- EXISTING DCW/DHW PIPING TO REMAIN (TYPICAL).
- EXISTING DCW PIPING SERVING DRINKING FOUNTAIN TO REMAIN (TYPICAL).
- EXISTING DCW PIPING SERVING SINK TO REMAIN (TYPICAL).
- EXISTING DOUBLE-BOWL SINK IN STAFF ROOM 125 TO REMAIN. CONTRACTOR TO ENSURE SANITARY DRAINAGE AND DCW/DHW PIPING REMAINS IN GOOD CONDITION DURING CONSTRUCTION.

DEMOLITION NOTES

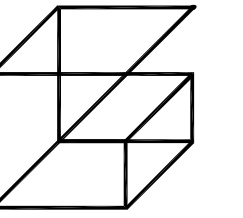
- EXISTING TANK-TYPE WATER CLOSET TO BE REMOVED AND DISPOSED OF. PREPARE ROUGH-INS TO ACCEPT INSTALLATION OF NEW WATER CLOSET.
- EXISTING WALL-MOUNT LAVATORY, ASSOCIATED P-TRAP, FLEXIBLE RISERS, MOUNTING HARDWARE, ETC. TO BE REMOVED AND DISPOSED OF. PREPARE ROUGH-INS TO ACCEPT INSTALLATION OF NEW LAVATORY.
- EXISTING SINGLE BOWL SINK, ASSOCIATED P-TRAP, FLEXIBLE RISERS, ETC. TO BE REMOVED AND DISPOSED OF. CAP SANITARY DRAINAGE AND DCW/DHW PIPING WITHIN WALL SPACE. MAKE GOOD WALL PENETRATION TO BASE BUILDING STANDARDS.
- EXISTING DOUBLE-BOWL SINK, ASSOCIATED P-TRAP, FLEXIBLE RISERS, ETC. TO BE REMOVED AND DISPOSED OF. CAP SANITARY DRAINAGE AND DCW/DHW PIPING WITHIN WALL SPACE. MAKE GOOD WALL OPENING TO BASE BUILDING STANDARDS.
- EXISTING WATER CLOSET FLANGE TO BE REMOVED AND DISPOSED OF. EXISTING SANITARY DRAINAGE PIPING TO BE CAPPED BELOW SLAB. EXISTING VENT PIPING TO BE REMOVED AND DISPOSED OF. CAP VENT PIPING AT MAIN IN CEILING SPACE. CONTRACTOR TO CONFIRM EXACT LOCATION OF BURIED SANITARY DRAINAGE PIPING AND VENT PIPING ON SITE PRIOR TO CONSTRUCTION.

DEMOLITION NOTES

- EXISTING SANITARY DRAINAGE PIPING SERVING SINK ROUGH-IN TO BE REMOVED AND DISPOSED OF. EXISTING SANITARY DRAINAGE PIPING TO BE CAPPED IN WALL SPACE. EXISTING VENT PIPING TO BE REMOVED AND DISPOSED OF. CAP VENT PIPING AT MAIN IN CEILING SPACE. CONTRACTOR TO CONFIRM EXACT LOCATIONS OF BURIED SANITARY DRAINAGE PIPING AND VENT PIPING ON SITE PRIOR TO CONSTRUCTION.
- EXISTING DCW/DHW PIPING SERVING SINK ROUGH-IN TO BE REMOVED BACK TO MAIN IN CEILING SPACE AND DISPOSED OF. CAP WHERE INDICATED. MAKE GOOD WALL OPENING TO BASE BUILDING STANDARDS.
- EXISTING DCW PIPING SERVING WATER CLOSET ROUGH-IN TO BE REMOVED BACK TO MAIN IN CEILING SPACE AND DISPOSED OF. CAP WHERE INDICATED. MAKE GOOD WALL OPENING TO BASE BUILDING STANDARDS.
- EXISTING CLEANOUT TO BE REMOVED AND DISPOSED OF. PREPARE CONNECTION FOR NEW SANITARY DRAINAGE PIPING.

GENERAL DRAINAGE NOTES

- ALL EXISTING SERVICES SHOWN ARE A GENERAL REPRESENTATION ONLY OF ACTUAL ON-SITE CONDITIONS. CONTRACTOR TO VERIFY EXACT LOCATION OF EXISTING SERVICES PRIOR TO CONSTRUCTION AND REPORT ALL DISCREPANCIES TO ENGINEER IN A TIMELY MANNER.
- WHERE COMPONENTS ARE TO BE REUSED, THE CONTRACTOR SHALL CLEAN AND TEST THE COMPONENT TO ENSURE PROPER OPERATION. THE CONSULTANT SHALL BE NOTIFIED IN THE EVENT THERE IS A DEFICIENCY WITH THE COMPONENT.
- PERFORM DEMOLITION SO AS TO CAUSE MINIMAL DISTURBANCE TO OWNER AND/OR ADJACENT AREAS. MINIMIZE DUST AND NOISE AND PROVIDE TEMPORARY AIR FILTERS ON AIR HANDLING SYSTEMS AFFECTED BY THE AREA OF WORK. MAINTAIN SAFETY STANDARDS AND PROVIDE ADEQUATE SIGNAGE FOR BOTH WORKERS AND OCCUPANTS.
- THESE DRAWINGS HAVE BEEN PREPARED FOR DIV.22 AND DO NOT ACCURATELY DISPLAY ALL ELECTRICAL, STRUCTURAL AND ARCHITECTURAL ELEMENTS. REFER TO OTHER DIVISIONS' DRAWINGS FOR CLARIFICATION.
- UNLESS OTHERWISE NOTED, ALL VENT PIPING ASSOCIATED WITH REMOVED PLUMBING FIXTURES SHALL BE COMPLETELY REMOVED AND CAPPED AT MAIN.



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PROJECT:

**RENOVATIONS AT
 ECOLE ELEMENTAIRE
 FELIX-LECLERC**

50 CELESTINE DRIVE
 TORONTO, ON

DRAWING:

**PART GROUND FLOOR
 NEW PLAN - PLUMBING &
 DRAINAGE**



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 JH

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DATE:
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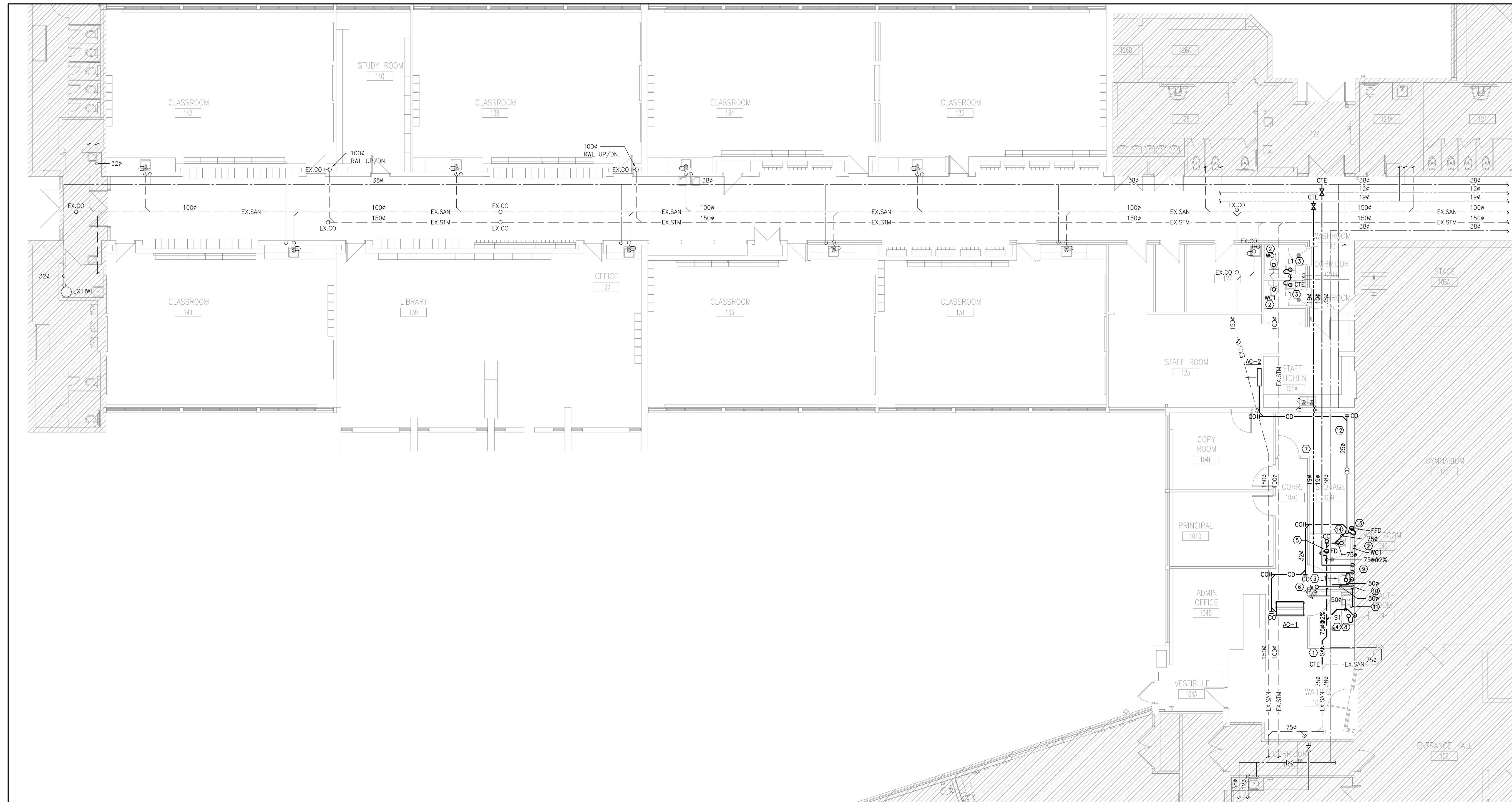
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PROJECT NO:

24-182

DRAWING NO:

M-3.2

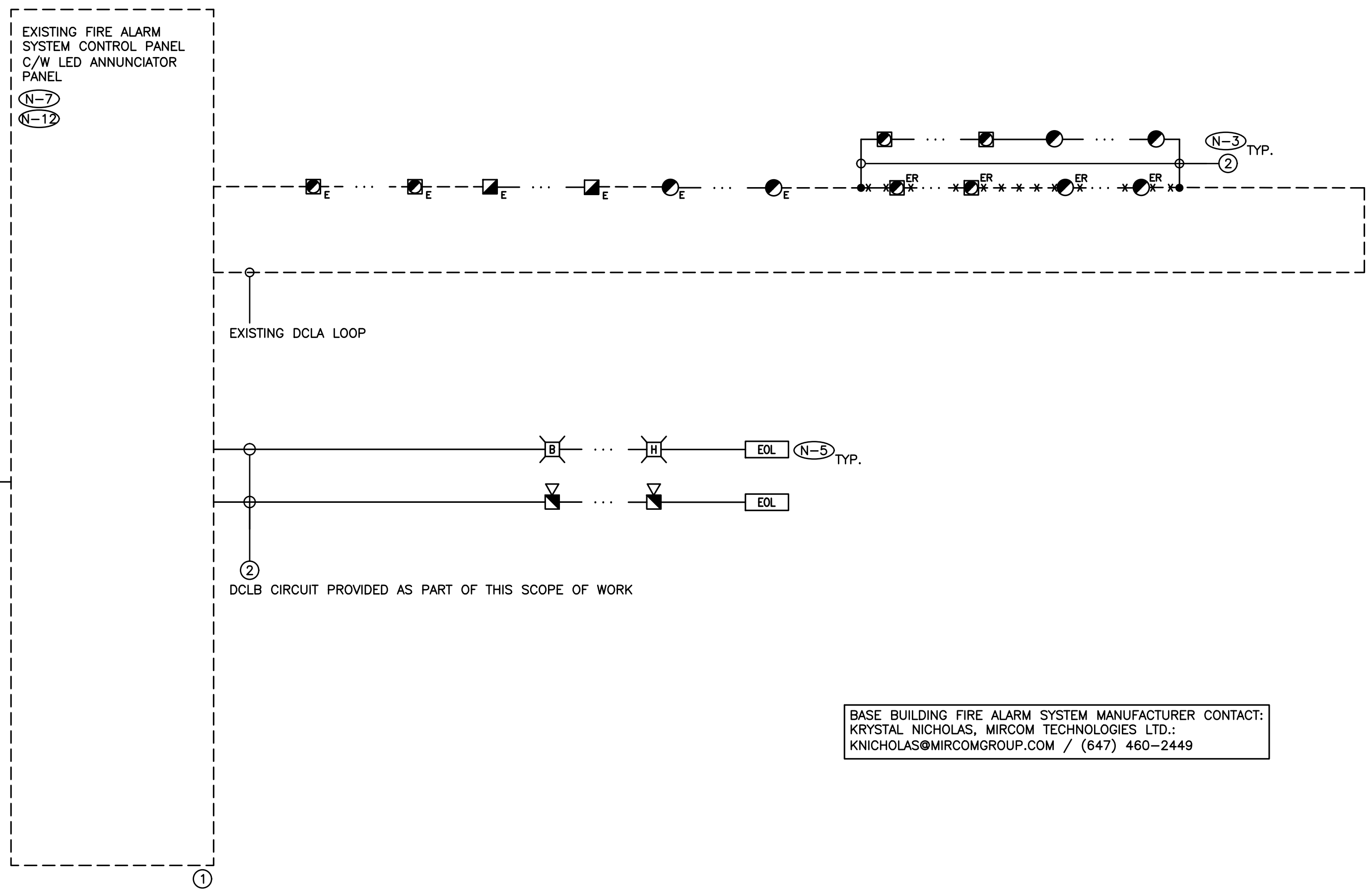


1 PART GROUND FLOOR NEW PLAN - PLUMBING & DRAINAGE
 M-3.2 1:50

- PLUMBING AND DRAINAGE NOTES**
1. PROVIDE NEW UNDERGROUND SANITARY DRAINAGE PIPING AND CONNECT TO EXISTING WHERE SHOWN.
 2. PROVIDE NEW WATER CLOSET AS SPECIFIED.
 3. PROVIDE NEW WALL-MOUNTED LAVATORY AS SPECIFIED C/W P-TRAP, FLEXIBLE RISERS, ETC. MODIFY EXISTING/PROVIDE NEW SANITARY DRAINAGE PIPING AS REQUIRED TO SUIT NEW INSTALLATION.
 4. PROVIDE NEW SINK AS SPECIFIED C/W P-TRAP, FLEXIBLE RISERS, ETC.
 5. PROVIDE NEW FLOOR DRAIN AS SPECIFIED C/W P-TRAP AND MECHANICAL TRAP SEAL PRIMING. EXACT LOCATION TO BE COORDINATED ON SITE.
 6. PROVIDE NEW VENT PIPING TO SERVE NEW PLUMBING FIXTURES IN WASHROOM 104G AND HEALTH ROOM 104H. DISTRIBUTE VENT PIPING IN ACCORDANCE WITH PART 7 OF THE OBC.
 7. PROVIDE NEW 1 1/2" DCW/DHW FROM MAIN CORRIDOR.

- PLUMBING AND DRAINAGE NOTES**
8. PROVIDE NEW 1 1/2" DCW/DHW FROM WALL CHASE IN WASHROOM 104G TO SINK AT LOW LEVEL IN MILLWORK OF HEALTH ROOM 104H.
 9. PROVIDE NEW 1 1/2" DCW/DHW TO SERVE SINK, LAVATORY AND MECHANICAL TRAP SEAL PRIMER IN WALL CHASE OF WASHROOM 104G.
 10. 50# VENT PIPING DOWN SERVING S1, WC1, L1 AND FD.
 11. RUN VENT PIPING SERVING S1 IN MILLWORK BELOW SINK.
 12. PROVIDE NEW CONDENSATE DRAINAGE PIPING IN CEILING SPACE (TYPICAL).
 13. PROVIDE NEW FUNNEL FLOOR DRAIN AS SPECIFIED C/W MECHANICAL TRAP SEAL PRIMING. EXACT LOCATION TO BE COORDINATED ON SITE.
 14. NEW CONDENSATE DRAINAGE PIPING DOWN IN WALL SPACE. STUB OUT OF WALL AT LOW LEVEL AND TERMINATE CONDENSATE DRAINAGE PIPING INDIRECTLY AT NEW FUNNEL FLOOR DRAIN. REFER TO DETAILS.

- GENERAL DRAINAGE NOTES**
1. PROVIDE VENTING SYSTEMS IN ACCORDANCE WITH PART 7 OF THE ONTARIO BUILDING CODE.
 2. PROVIDE ADEQUATE ACCESS FOR ALL EQUIPMENT, VALVES, ETC. LOCATED BEHIND WALLS AND CEILINGS. REFER TO SPECIFICATIONS.
 3. ALL EXISTING SERVICES SHOWN ARE A GENERAL REPRESENTATION ONLY OF ACTUAL ONSITE CONDITIONS. CONTRACTOR TO VERIFY EXACT LOCATION OF EXISTING SERVICES PRIOR TO CONSTRUCTION AND REPORT ALL DISCREPANCIES TO ENGINEER IN A TIMELY MANNER.
 4. WHERE COMPONENTS ARE TO BE REUSED, THE CONTRACTOR SHALL CLEAN AND TEST THE COMPONENT TO ENSURE PROPER OPERATION. THE CONSULTANT SHALL BE NOTIFIED IN THE EVENT THERE IS A DEFICIENCY WITH THE COMPONENT.
 5. THESE DRAWINGS HAVE BEEN PREPARED FOR DIV.22 AND DO NOT ACCURATELY DISPLAY ALL ELECTRICAL, STRUCTURAL, AND ARCHITECTURAL ELEMENTS. REFER TO OTHER DIVISIONS' DRAWINGS FOR CLARIFICATION.



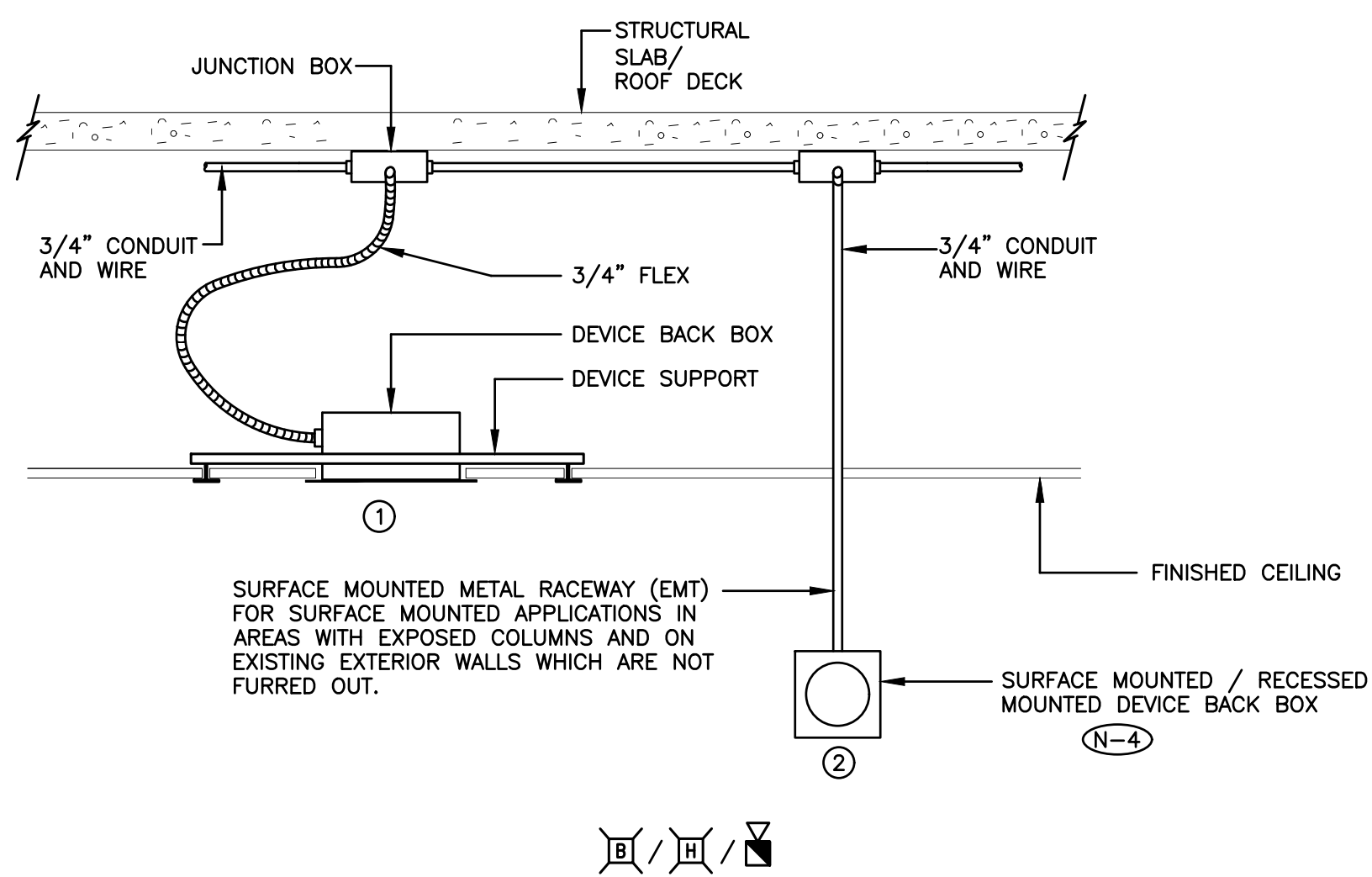
BASE BUILDING FIRE ALARM SYSTEM MANUFACTURER CONTACT:
 KRISTAL NICHOLAS, MIRCOM TECHNOLOGIES LTD.:
 KNICHOLAS@MIRCOMGROUP.COM / (647) 460-2449

- (N-1) RISER IS DIAGRAMMATIC ONLY. PROVIDE QUANTITY OF HARDWARE, MODULES, ACCESSORIES, DEVICES, CONDUIT, WIRE, ETC. TO ENSURE A FULLY OPERATIONAL FIRE ALARM SYSTEM.
- (N-2) REFER TO FLOOR PLANS AND REFLECTED CEILING PLANS FOR EXACT QUANTITY AND LOCATION OF DEVICES, DEVICE PERIPHERALS AND ACCESSORIES (IE. WIRE GUARD, EXPLOSION PROOF DEVICES, WEATHER PROOF DEVICES, ETC)
- (N-3) PROVIDE POWER, CONDUIT, BACKBOX AND WIRING IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. MINIMUM CONDUIT SIZE 3/4".
- (N-4) NOT USED.
- (N-5) PROVIDE STROBE CIRCUIT SYNCHRONIZATION MODULES.
- (N-6) PROVIDE 24VDC CIRCUITS FOR STROBES AND OTHER 24VDC DEVICES. MAXIMUM LOAD ON EACH CIRCUIT SHALL NOT EXCEED 70%. CIRCUIT REQUIREMENTS NOT SHOWN ON RISER DIAGRAM.
- (N-7) MODIFY, REWORK AND PROVIDE ALL COMPONENTS AND ACCESSORIES FOR CONTROL PANEL AS REQUIRED TO ACCOMMODATE ALL SCOPES OF WORK AS NOTED ON DRAWINGS AND IN SPECIFICATION.
- (N-8) PROVIDE DEDICATED CORE DRILLED WALL AND FLOOR PENETRATIONS ON EVERY FLOOR FOR FIRE ALARM SYSTEM CONDUITS/CABLES. EXACT LOCATION OF ALL CORE DRILLS TO BE DETERMINED BY X-RAY RESULTS. ALL X-RAYS MUST BE REVIEWED AND APPROVED BY LANDLORD PRIOR TO CORE DRILLING.
- (N-9) ALL NEW FIRE ALARM SYSTEM DEVICES PROVIDED AS PART OF THIS SCOPE OF WORK MUST BE CONNECTED TO CIRCUITS PROVIDED AS PART OF THIS SCOPE OF WORK. DO NOT REUTILIZE EXISTING CIRCUITS OR WIRING.
- (N-10) NOT USED.
- (N-11) NOT USED.
- (N-12) PROVIDE ADDITIONAL BATTERIES IN EXISTING CONTROL PANEL AS REQUIRED TO SUPPORT THE TOTAL LOAD REQUIREMENTS AT THE COMPLETION OF THIS PROJECT.
- (N-13) PROVIDE ULC APPROVED DAMPENING MATERIALS AS REQUIRED DURING VERIFICATION FOR ALL FIRE ALARM HORNS PROVIDED AS PART OF THIS SCOPE OF WORK TO DECREASE AUDIBILITY LEVELS TO BELOW 100 DBA.

- ① EXISTING FIRE ALARM SYSTEM CONTROL PANEL - MIRCOM FX-2000
- ② CONDUIT AND WIRE PER MANUFACTURER'S REQUIREMENTS
- ③ EXISTING FIRE ALARM SYSTEM REMOTE LED ANNUNCIATOR PANEL.

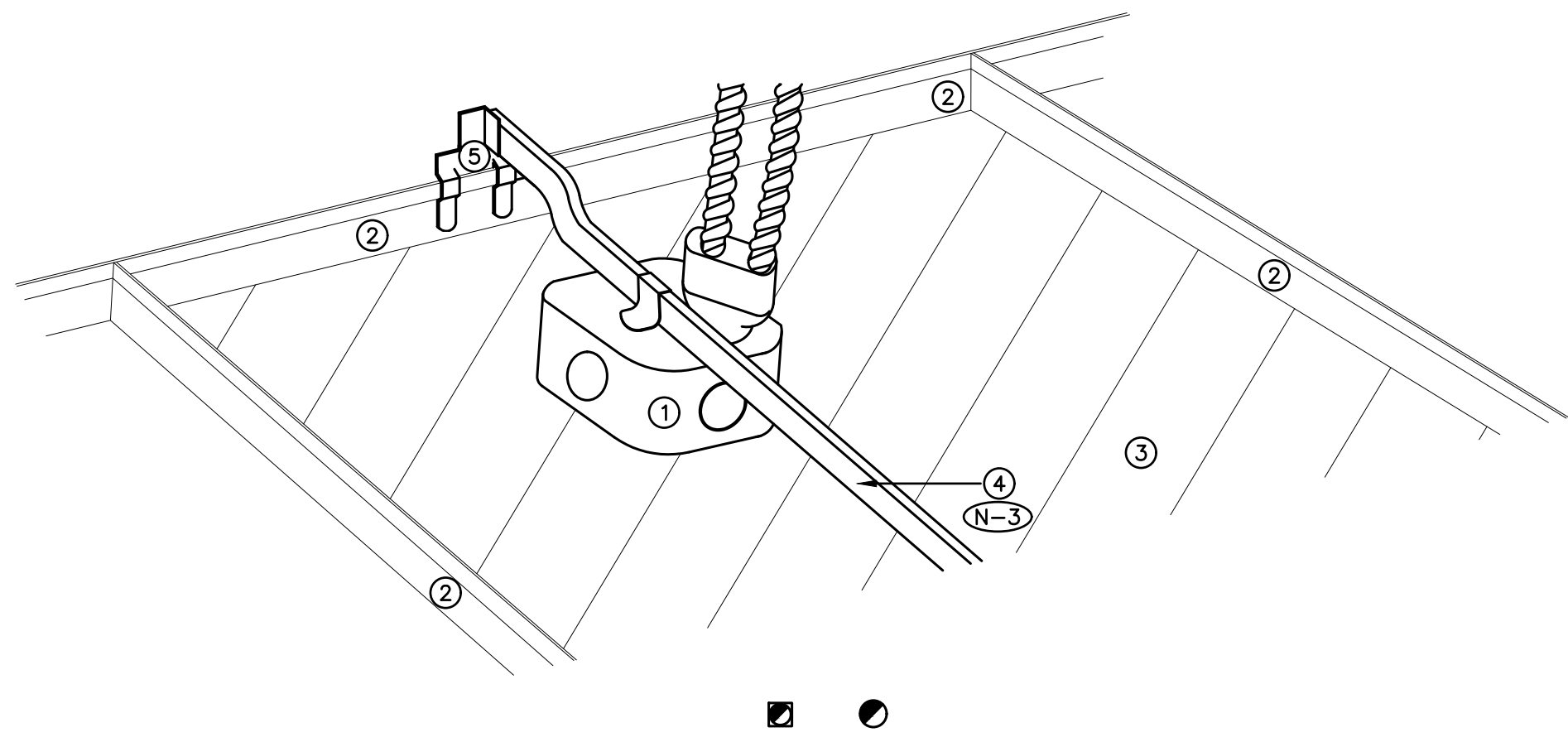
————— DENOTES NEW PROVIDED BY ELECTRICAL CONTRACTOR
 - - - - - DENOTES EXISTING TO REMAIN
 * * * * * DENOTES EXISTING TO BE REMOVED BY ELECTRICAL CONTRACTOR

1 FIRE ALARM SYSTEM RISER DIAGRAM
 E-1.2 SCALE: NTS



- (N-1) DETAIL IS DIAGRAMMATIC ONLY.
 - (N-2) REFER TO FLOOR PLANS FOR EXACT QUANTITY AND LOCATION OF DEVICES.
 - (N-3) CONDUIT/TIE WIRE AND OTHER ASSEMBLY MEANS TO SUPPORT DEVICE BACKBOX IS NOT ACCEPTABLE.
 - (N-4) ALL SURFACE / RECESSED MOUNTED DEVICES TO BE RECESSED MOUNTED FOR ALL INTERIOR PARTITIONS.
- ① CEILING MOUNTED FIRE ALARM SYSTEM SIGNALLING DEVICE.
 ② SURFACE / RECESSED MOUNTED FIRE ALARM SYSTEM SIGNALLING DEVICE.

2 WALL/CEILING MOUNTED FIRE ALARM SYSTEM SIGNALLING DEVICE DETAIL
 E-1.2 SCALE: NTS



- (N-1) DETAIL IS DIAGRAMMATIC ONLY.
 - (N-2) REFER TO FLOOR PLANS FOR EXACT QUANTITY AND LOCATION OF DEVICES.
 - (N-3) CONDUIT, TIE WIRE AND OTHER ASSEMBLY MEANS TO SUPPORT DEVICE BACKBOX IS NOT ACCEPTABLE.
- ① BACKBOX SUPPORTING SMOKE DETECTOR/HEAT DETECTOR
 ② CEILING TILE FRAME
 ③ CEILING TILE
 ④ BOX HANGER C/W BOX MOUNTING CLIP
 ⑤ T-BAR CLIP

3 TYPICAL SMOKE DETECTOR AND HEAT DETECTOR T-BAR CEILING SUPPORT DETAIL
 E-1.2 SCALE: NTS

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 UPON REQUEST. REPRODUCTION OF DRAWINGS IN PART OR WHOLE
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 DRAWINGS ARE NOT TO BE USED FOR CONSTRUCTION UNTIL SIGNED
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2.	ISSUED FOR PERMIT AND TENDER	MAR12/25	KZ

HCC ENGINEERING
 DESIGN AND TECHNOLOGY SERVICES GROUP
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 TORONTO, ONTARIO, M4P 3J2
 Tel: (416) 932-2423

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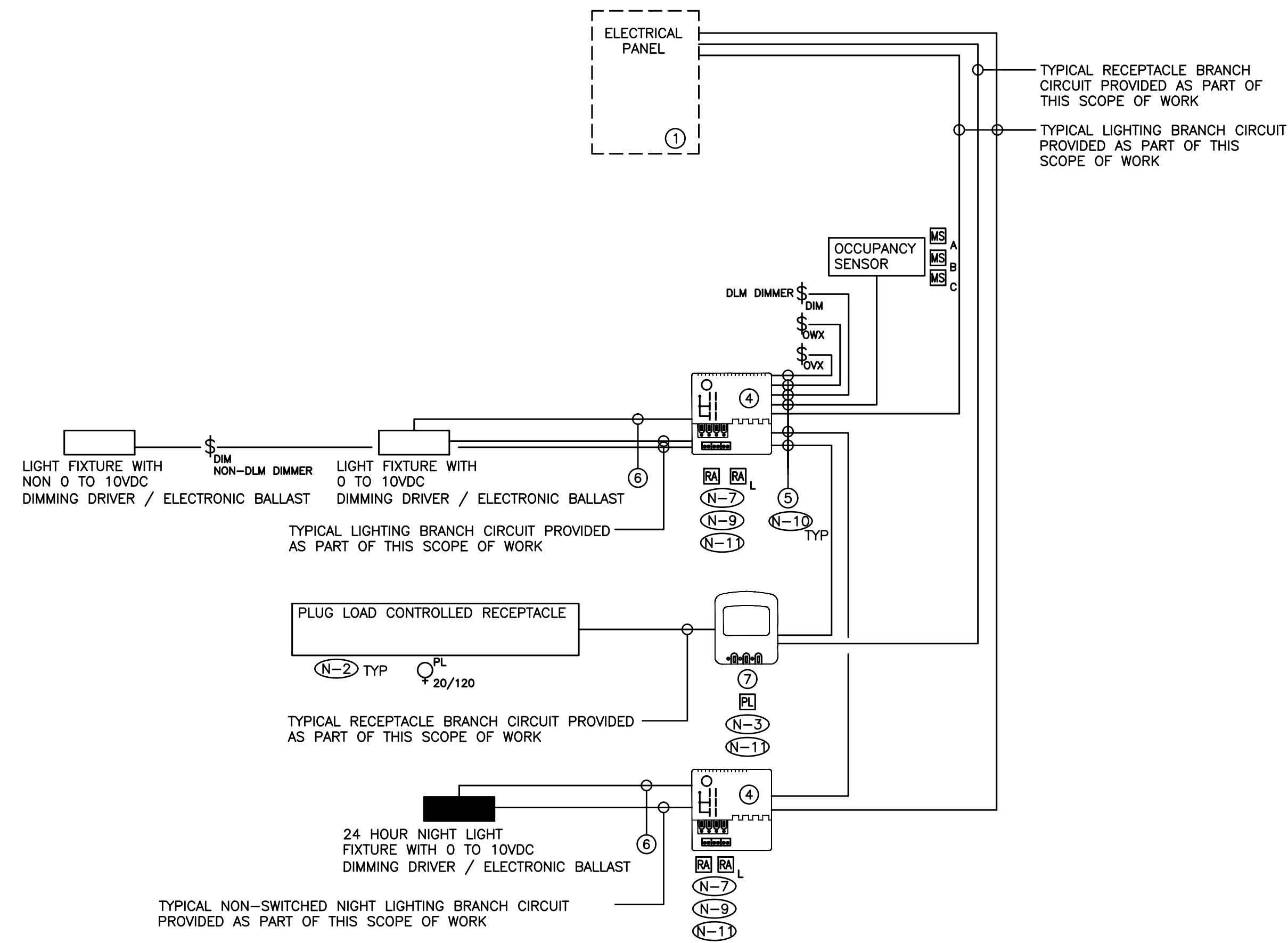
PROJECT:
**RENOVATIONS AT
 ECOLE ELEMENTAIRE
 FELIX-LECLERC**
 50 CELESTINE DRIVE
 TORONTO, ON
 HCC Project Number # 24273

DRAWING:
ELECTRICAL DETAILS

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 Engineers
 Project Managers
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 e-mail: bba@bba-archeng.com

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DATE: JANUARY, 2025	SCALE: AS SHOWN
FILE:	

PROJECT NO:
24194
 DRAWING NO:
E-1.2



- (N-1) SCHEMATIC IS DIAGRAMMATIC ONLY. REFER TO FLOOR PLANS AND REFLECTED CEILING PLANS FOR DEVICE QUANTITY AND LOCATIONS. PROVIDE QUANTITY OF HARDWARE, ROOM CONTROLLERS, PLUG LOAD CONTROLLERS, SENSORS, DEVICES, CONDUIT, WIRE, CONFIGURATION TOOLS, ETC. TO ENSURE A FULLY OPERATIONAL LOW VOLTAGE LIGHTING CONTROL SYSTEM.
- (N-2) ALL CONTROLLED RECEPTACLES SHALL BE PERMANENTLY MARKED TO VISUALLY DIFFERENTIATE THEM FROM UNCONTROLLED RECEPTACLES.
- (N-3) PLUG LOAD CONTROLLERS TO BE INSTALLED IN CEILING MOUNTED JUNCTION BOXES.
- (N-4) ALL LOW VOLTAGE WIRING TO BE INSTALLED IN AN ENCLOSED CONDUIT SYSTEM.
- (N-5) PROVIDE POWER, CONDUIT, BACKBOX AND WIRING IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS. MINIMUM CONDUIT SIZE 3/4".
- (N-6) PROVIDE DEDICATED CORE DRILLED WALL AND FLOOR PENETRATIONS ON EVERY FLOOR. EXACT LOCATION OF ALL CORE DRILLS TO BE DETERMINED BY X-RAY RESULTS. ALL X-RAYS MUST BE REVIEWED AND APPROVED BY LANDLORD PRIOR TO CORE DRILLING.
- (N-7) PROVIDE ROOM CONTROLLERS TO ACCOMMODATE ALL LIGHTING ZONES IN CLOSED ROOMS (IE. OFFICES, MEETING ROOMS, ETC.) PROVIDED AS PART OF THIS SCOPE OF WORK. MAXIMUM OF TWO (2) SWITCH LEGS PER ROOM CONTROLLER.
- (N-8) NOT USED.
- (N-9) ROOM CONTROLLERS TO BE INSTALLED IN CEILING MOUNTED JUNCTION BOXES.
- (N-10) TERMINATE AND TEST ALL LOW VOLTAGE CONTROL CABLES PROVIDED AS PART OF THIS SCOPE OF WORK. PROVIDE TEST RESULTS FOR ALL LOW VOLTAGE CONTROL CABLES PROVIDED AS PART OF THIS SCOPE OF WORK AT THE END OF CONSTRUCTION. TEST RESULTS SHALL BE INCLUDED AS PART OF THE CLOSE OUT DOCUMENTS. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- (N-11) REFER TO MANUFACTURER'S INSTALLATION GUIDELINES FOR ADDITIONAL INSTALLATION REQUIREMENTS OVER AND ABOVE THOSE DETAILS ON THIS SCHEMATIC.
- (N-12) NOT USED.
- (N-13) NOT USED.
- (N-14) PROVIDE POWER PACKS, AS REQUIRED FOR A FULLY OPERATIONAL SYSTEM. POWER PACKS NOT SHOWN ON REFLECTED CEILING PLANS.
- (N-15) ELECTRICAL CONTRACTOR'S BASE BID PRICE SHALL INCLUDE FOUR (4) HOURS OF ON SITE COORDINATION TIME WITH LIGHTING CONTROL SYSTEM MANUFACTURER PRIOR TO ORDERING LIGHTING SYSTEM COMPONENTS TO CONFIRM DEVICES AND WIRING REQUIREMENTS. ALL CHANGES TO BE REVIEWED AND APPROVED BY CONSULTANT ON SITE PRIOR TO EXECUTION.

(N-16) LIGHT LEVEL OUTPUT (IE, DIMMING LEVEL) FOR EACH AND EVERY FIXTURE PROVIDED AS PART OF THIS SCOPE OF WORK IN ROOMS/AREAS/CORRIDORS/ETC., WITH DLM CONTROL TO BE FIELD ADJUSTED ON SITE WITH CLIENT POST OCCUPANCY. TARGET LIGHT LEVELS FOR EACH LOW VOLTAGE LIGHTING ZONE TO BE PROVIDED BY THE CLIENT POST OCCUPANCY. PROCURE (COORDINATE AND PAY FOR) THE SERVICES OF WATTSTOPPER TO ADJUST, PROGRAM AND COMMISSION THE LIGHTING CONTROL SYSTEM.

AS PART OF THIS SCOPE OF WORK PROCURE THE SERVICES OF A THIRD PARTY PROFESSIONAL ENGINEER TO MEASURE AND RECORD LIGHTING LEVELS IN FOOT CANDLES THROUGHOUT THE ENTIRE SCOPE OF WORK AREAS WITH A CALIBRATED LIGHT METER, AFTER ALL FIELD ADJUSTMENTS HAVE BEEN COMPLETED. READINGS SHALL BE TAKEN BASED ON A MINIMUM OF ONE READING FOR EVERY 20' CENTER IN OPEN OFFICE AREAS AND CORRIDORS / HALLWAYS AND ONE READING IN EACH CLOSED OFFICE, MEETING ROOM, BOARDROOM, ETC. ALL LIGHT LEVEL READINGS ARE TO BE TAKEN DURING NON-DAYLIGHT HOURS. PROVIDE A SEALED REPORT IDENTIFYING LIGHT LEVEL READINGS.

INSTALL LOW VOLTAGE CONTROL SYSTEM IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS, ASHRAE 90.1 2016, ONTARIO BUILDING CODE, ELECTRICAL SAFETY CODE AND THESE DOCUMENTS.

- ① TYPICAL RECEPTACLE / LIGHTING PANEL. REFER TO DRAWING NO. E-7.1 FOR ADDITIONAL REQUIREMENTS
- ② NOT USED
- ③ NOT USED
- ④ ON / OFF / DIMMING ROOM CONTROLLER
- ⑤ PLENUM RATED 4 PAIR CAT6 UTP CABLE AS MANUFACTURED BY LIGHTING CONTROL SYSTEM MANUFACTURER
- ⑥ 0 TO 10VDC CONTROL WIRING PER MANUFACTURER'S RECOMMENDATIONS
- ⑦ PLUG LOAD CONTROLLER

————— DENOTES NEW PROVIDED BY ELECTRICAL CONTRACTOR
 - - - - - DENOTES EXISTING TO REMAIN
 -X-X-X-X- DENOTES EXISTING TO BE REMOVED BY ELECTRICAL CONTRACTOR

1 LOW VOLTAGE LIGHTING CONTROL SYSTEM WIRING SCHEMATIC
 E-1.3 SCALE: NTS

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NO.	REVISIONS	DATE	BY



PROJECT:
**RENOVATIONS AT
 ECOLE ELEMENTAIRE
 FELIX-LECLERC**
 50 CELESTINE DRIVE
 TORONTO, ON
 HCC Project Number # 24273

DRAWING:
ELECTRICAL DETAILS

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 BARRY BRYAN ASSOCIATES
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 Engineers
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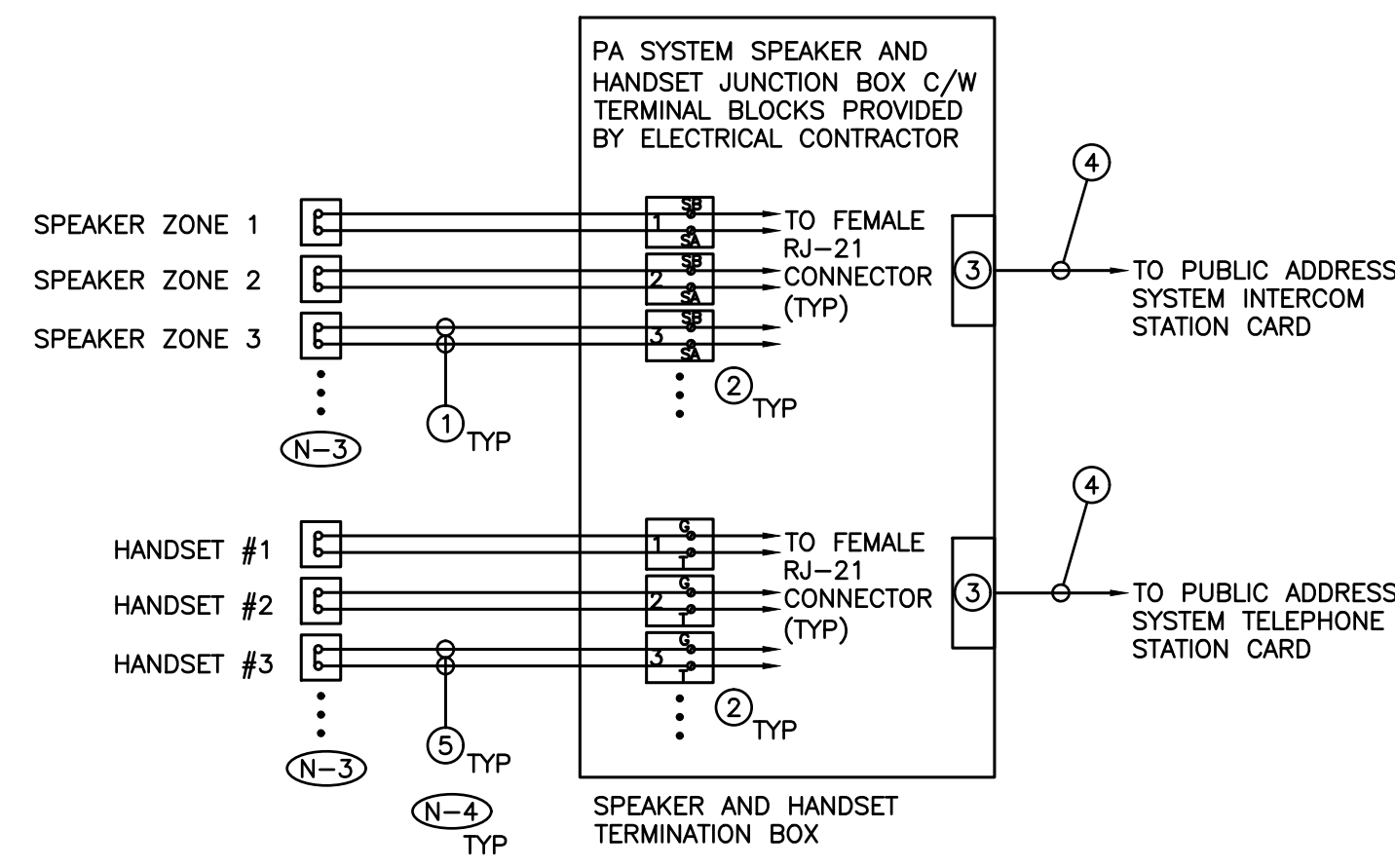
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DATE: JANUARY, 2025	SCALE: AS SHOWN
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PROJECT NO:
24194
 DRAWING NO:
E-1.3

FIXTURE SCHEDULE

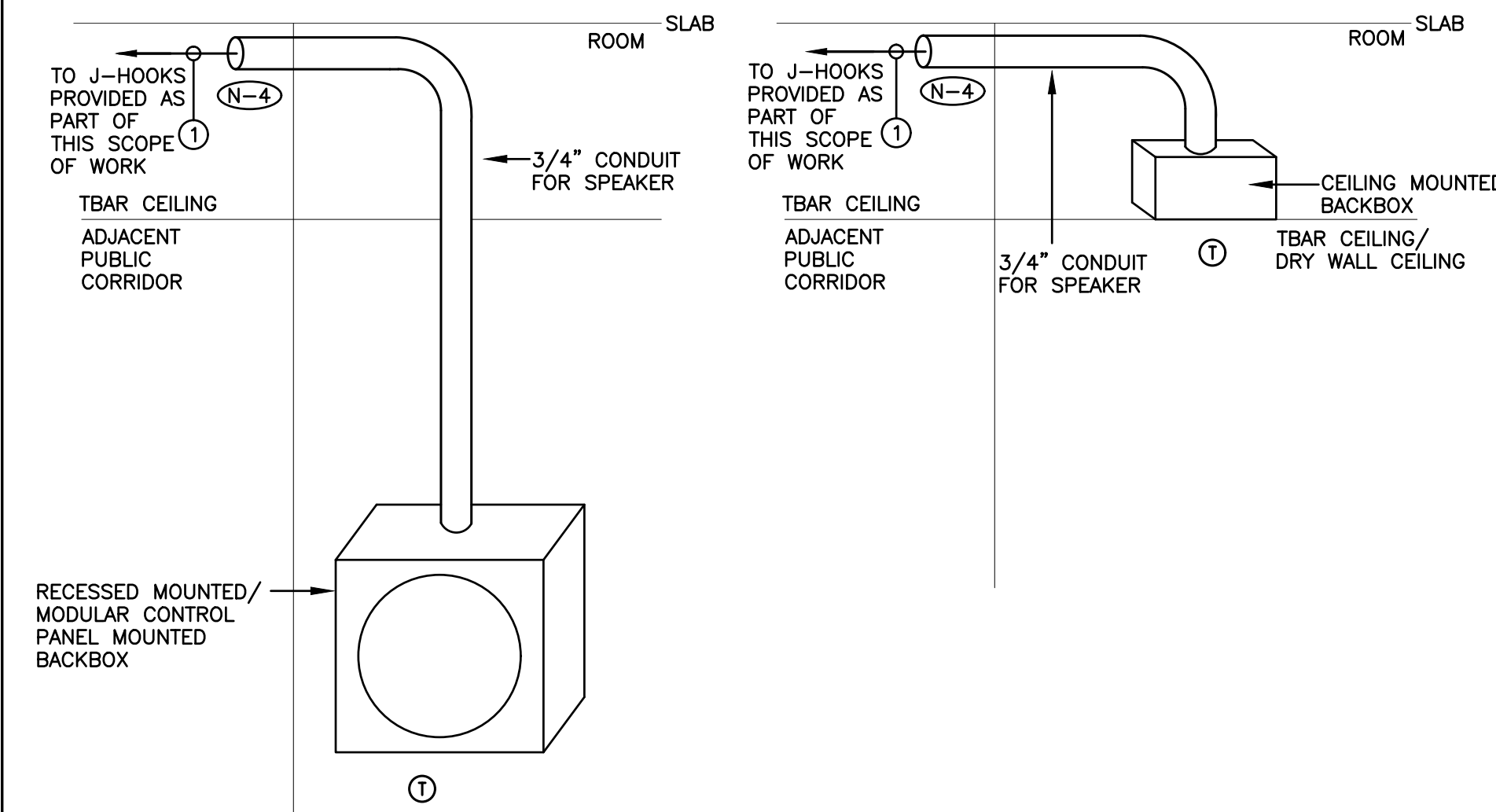
TYPE A1 - 3000 LUMEN 2' X 4' RECESSED LED FIXTURE SUITABLE FOR LAY-IN CEILING C/W IN LINE POWER DISCONNECT, POWER SUPPLY, 120V 0 TO 10VDC DIMMING DRIVER AND LAMP (4000K/80% CRI). COOPER 24EN-LD2-30-UNV-L840-CD1-U	TYPE D1 - EMERGENCY LIGHTING SYSTEM C/W 10 YEAR 24VOLT/720W/0.5 HOUR/BATTERY UNIT/120/347 VOLT INPUT ONTO TERMINAL BLOCK/LUMACELL RGS24S720-TMBK OR STANPRO SLD SERIES SLD-24-720-00-X-WH-ACTB/WHITE IN COLOUR.
TYPE A2 - 3000 LUMEN 2' X 2' RECESSED LED FIXTURE SUITABLE FOR LAY-IN CEILING C/W IN LINE POWER DISCONNECT, POWER SUPPLY, 120V 0 TO 10VDC DIMMING DRIVER AND LAMP (4000K/80% CRI). COOPER 22EN-LD2-30-UNV-L840-CD1-U	TYPE D2 - 2 X 4W MR16 LED 24V LUMACELL SIGNATURE COLLECTION OR STANPRO M SERIES REMOTE HEADS, WHITE IN COLOUR.
TYPE B1 - 1500 LUMEN 4" LED RECESSED ROUND DOWNLIGHT SUITABLE FOR DRYWALL CEILING C/W IN LINE POWER DISCONNECT, 120V 0 TO 10VDC DIMMING ELECTRONIC DRIVER AND WIDE BEAM LAMP (4000K 90%CRI). COOPER LIGHTING PORTFOLIO LD4C15D010-EU4C10209040-4LBW1H	TYPE D3 - 1 X 4W MR16 LED 24V LUMACELL SIGNATURE COLLECTION OR STANPRO M SERIES REMOTE HEAD, WHITE IN COLOUR.
TYPE B2 - 2124 LUMEN 4" LED RECESSED ROUND DOWNLIGHT SUITABLE FOR DRYWALL CEILING C/W IN LINE POWER DISCONNECT, 120V 0 TO 10VDC DIMMING ELECTRONIC DRIVER AND WIDE BEAM LAMP.	TYPE D4 - 2 X 6W MR16 LED 24V LUMACELL SIGNATURE COLLECTION OR STANPRO M SERIES REMOTE HEADS, WHITE IN COLOUR.
TYPE C1 - 4500 LUMENS 4' SURFACE MOUNTED LINEAR LED FIXTURE C/W IN LINE POWER DISCONNECT, 120V 0 TO 10VDC DIMMING DRIVER, ACRYLIC FROSTED LENS AND LED LAMPS (4000K/80%CRI). COOPER LIGHTING WRAP SERIES 4AWWS-L3C3-NUV-4000K-LOW.	TYPE D7 - 1 X REMOTE DC HEAD
TYPE LE1 - 4000 LUMEN 2' X 4' RECESSED LED FIXTURE SUITABLE FOR LAY-IN CEILING C/W IN LINE POWER DISCONNECT, POWER SUPPLY, 120V 0 TO 10VDC DIMMING DRIVER AND LAMP.	TYPE D8 - 2 X REMOTE DC HEADS
TYPE LE3 - 1' X 4' SURFACE MOUNTED FLUORESCENT FIXTURE C/W IN LINE POWER DISCONNECT, 120V BALLAST, ACRYLIC LENS AND 2 X T8 LAMPS	TYPE D10 - EMERGENCY LIGHTING SYSTEM BATTERY UNIT C/W 2 X REMOTE DC HEADS.
TYPE LE3B - 18" X 4' SURFACE MOUNTED FLUORESCENT FIXTURE C/W IN LINE POWER DISCONNECT, 120V BALLAST, ACRYLIC LENS AND 2 X T8 LAMPS	TYPE E1 - PICTOGRAM WHITE LED EXIT SIGN C/W LUMACELL E22 CANOPY. LUMACELL LA-3 SERIES OR STANPRO RMXL PICTOGRAM EXTRUDED ALUMINUM EXIT SIGN C/W 120/347VAC/24VDC LED.
TYPE LE3R - 1' X 4' RECESSED MOUNTED FLUORESCENT FIXTURE C/W IN LINE POWER DISCONNECT, 120V BALLAST, ACRYLIC LENS AND 2 X T8 LAMPS	TYPE E2 - PICTOGRAM WHITE LED EXIT SIGN
TYPE LE6 - 4' SUSPENDED FLUORESCENT FIXTURE C/W IN LINE POWER DISCONNECT, 120V BALLAST, ACRYLIC LENS AND 1 X T8 LAMP	
TYPE LE6B - 4' SUSPENDED FLUORESCENT FIXTURE C/W IN LINE POWER DISCONNECT, 120V BALLAST, ACRYLIC LENS AND 2 X T8 LAMP	
TYPE LE7 - 4' SUSPENDED FLUORESCENT FIXTURE C/W IN LINE POWER DISCONNECT, 120V BALLAST, ANGLED ACRYLIC LENS AND 1 X T8 LAMP	
TYPE LE8 - 2' X 4' SURFACE MOUNTED FLUORESCENT FIXTURE C/W IN LINE POWER DISCONNECT, 120V BALLAST, ACRYLIC LENS AND 6 X T8 LAMP	
TYPE LE9 - 2' X 4' SURFACE MOUNTED FLUORESCENT FIXTURE C/W IN LINE POWER DISCONNECT, 120V BALLAST, ACRYLIC LENS AND 6 X T8 LAMP	

2 FIXTURE SCHEDULE
 E-1.3 SCALE: NTS



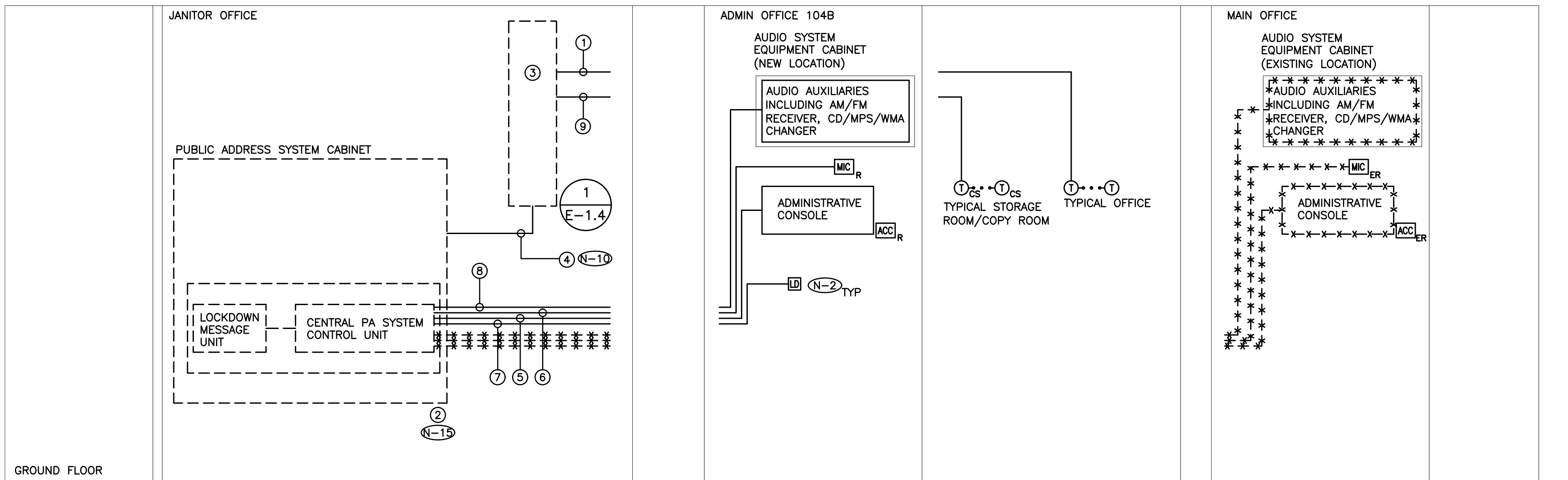
- (N-1) DETAIL IS DIAGRAMMATIC ONLY.
 - (N-2) PROVIDE ENCLOSURE, WIRING, TERMINAL BLOCKS, ACCESSORY CABLES, RJ21 CABLES, ETC. REQUIRED TO INTERCONNECT ALL PAGING SPEAKER ZONES AND ALL HANDSETS TO THE PUBLIC ADDRESS SYSTEM PROVIDED AS PART OF THIS SCOPE OF WORK.
 - (N-3) REFER TO DETAIL NO. 3 ON DRAWING NO. E-1.3 AND TO SYSTEMS (FLOOR) PLANS FOR QUANTITY AND LOCATION OF PAGING SPEAKER ZONES AND ADDITIONAL REQUIREMENTS.
 - (N-4) CONNECT BL/BLWH CABLE PAIR TO THE TERMINAL BLOCK.
 - (N-5) REFER TO RISER DIAGRAM FOR WIRING SPECIFICATIONS AND REQUIREMENTS.
- ① SPEAKER WIRE
 - ② TERMINAL BLOCK
 - ③ CONNECTORS
 - ④ MULTI PAIR CONDUCTORS
 - ⑤ HANDSET WIRE

1 PUBLIC ADDRESS SYSTEM SPEAKER AND INTERCOM HANDSET WIRING DETAIL
E-1.4 SCALE: NTS



- (N-1) DETAIL IS DIAGRAMMATIC ONLY. REFER TO FLOOR PLANS FOR QUANTITY AND LOCATIONS OF DEVICES AND FOR ADDITIONAL ACCESSORIES AND REQUIREMENTS.
 - (N-2) PROVIDE DEDICATED FLOOR AND WALL PENETRATIONS. EXACT LOCATION OF ALL CORE DRILLS TO BE DETERMINED BY X-RAY RESULTS. X-RAYS MUST BE REVIEWED AND APPROVED BY LANDLORD AND STRUCTURAL ENGINEER PRIOR TO CORE DRILLING.
 - (N-3) CONDUITS ARE TO BE SUPPORTED BY THE CEILING STRUCTURE ABOVE.
 - (N-4) EXTEND ALL PUBLIC ADDRESS ZONE CONDUITS PROVIDED AS PART OF THIS SCOPE OF WORK TO ABOVE T-BAR CEILING OUTSIDE OF RESPECTIVE ROOMS.
 - (N-5) ALL CONDUITS PROVIDED BY ELECTRICAL CONTRACTOR SHALL BE C/W BUSHINGS AND RUBBERIZED GROMMETS. ALL CONDUITS TO BE EMT, EMT COUPLING AND CONNECTORS SHALL BE T&B STEEL, SET SCREW TYPE.
- ① SPEAKER CABLE PROVIDED AS PART OF THIS SCOPE OF WORK

2 TYPICAL PAGING SPEAKER CONDUIT INSTALLATION DETAIL
E-1.4 SCALE: NTS



BASE BUILDING PA SYSTEM CONTRACTOR
BARRIE COMMUNICATIONS EQUIPMENT LIMITED
ALFRED SPEDALE
905-564-7026 EX 503
ALFRED@BARRIECOM.CA

- DENOTES NEW PROVIDED BY ELECTRICAL CONTRACTOR
- - - - - DENOTES EXISTING TO REMAIN
- * * * * * DENOTES EXISTING TO BE REMOVED BY ELECTRICAL CONTRACTOR

3 PUBLIC ADDRESS SYSTEM RISER DIAGRAM
E-1.4 SCALE: NTS

SPEAKER CABLE CHART

AWG Wire Size	Resistance (Ω/foot)	SPEAKER CABLE DISTANCES						
		Maximum Distance for a 0.5 dB Cable Loss (feet)						
26	0.0408	1818	908	454	227	—	—	—
24	0.0257	2882	1441	721	360	180	—	—
22	0.0161	4600	2300	1150	575	287	115	—
20	0.0102	7921	3930	1915	958	453	181	90
18	0.00639	11591	5796	2898	1449	724	289	144
16	0.00402	19425	9712	4856	2428	1214	485	243
14	0.00253	29279	14637	7318	3659	1829	732	366
12	0.00159	46593	23297	11648	5822	2911	1164	582
10	0.000999	74141	37070	18535	9267	4633	1853	926
8	0.000628	117541	58770	29385	14742	7371	2948	1474
6	0.000395	187512	93756	46877	23438	11719	4687	2343
Speaker Transformer Tap	0.25 W	0.5 W	1 W	2 W	4 W	10 W	20 W	

- (N-1) RISER IS DIAGRAMMATIC ONLY. PROVIDE QUANTITY OF HARDWARE, DEVICES, ACCESSORIES, POWER CIRCUITS, CONDUITS, WIRES, DATA CIRCUITS, SPEAKER CIRCUITS, ETC. TO ENSURE A FULLY OPERATIONAL PUBLIC ADDRESS SYSTEM.
- (N-2) REFER TO SYSTEMS (FLOOR) PLANS FOR EXACT QUANTITY AND LOCATION OF DEVICES, DEVICE PERIPHERALS AND ACCESSORIES, INCLUDING WIREGUARDS.
- (N-3) PROVIDE CONDUITS AND WIRES IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. MINIMUM CONDUIT SIZE AND WIRE REQUIREMENTS AS DETAILED ON RISER.
- (N-4) A SINGLE SPEAKER CIRCUIT (IE. RUN OF WIRING) SHALL NOT EXCEED FIVE (5) SPEAKERS OR A TOTAL POWER/LOAD OF 30W.
- (N-5) PROVIDE DEDICATED FLOOR AND WALL PENETRATIONS. EXACT LOCATION OF ALL CORE DRILLS TO BE DETERMINED BY X-RAY RESULTS. X-RAYS MUST BE REVIEWED AND APPROVED BY TDCSB AND STRUCTURAL ENGINEER PRIOR TO CORE DRILLING.
- (N-6) NOT USED.
- (N-7) EACH AND EVERY CLASSROOM AND EACH AND EVERY OFFICE TO BE WIRED AS A DEDICATED PAGING ZONE.
- (N-8) SUPPLY CADDY HANGERS, THREADED ROD EXTENSIONS, CABLE SUPPORTS, TIE-WRAPPS AND ANY OTHER MISCELLANEOUS HARDWARE REQUIRED TO SUPPORT LOW VOLTAGE CABLING IN LAY-IN CEILING AREAS WHERE CONDUIT HAS NOT BEEN PROVIDED. ANCHORS FOR CADDY HANGERS MUST NOT BE DRILLED INTO POST TENSIONED BEAMS UNDER ANY CIRCUMSTANCES. BRIDAL RING CADDY FASTENERS AND OTHER ALTERNATES TO "J-HOOKS" OR THEIR EQUIVALENT MAY NOT BE USED TO SUPPORT THE HORIZONTAL CABLING. DO NOT SUPPORT CABLES TO T-BAR CEILING HANGERS OR HAVE ANY CABLES LAYING ON CEILING TILES.
- (N-9) CABLING FOR SPEAKERS (PAGING ZONES) SHALL BE BUNDLED SEPARATELY FROM OTHER SYSTEMS TO AVOID ELECTRICAL NOISE. CABLING FOR SPEAKERS MUST BE AT LEAST 1 FOOT FROM OTHER SYSTEMS' CABLING.
- (N-10) PROVIDE QUANTITY OF MULTI-CONDUCTOR CABLES (PAIRS) AS REQUIRED FOR A FULLY FUNCTIONAL AND OPERATIONAL PUBLIC ADDRESS SYSTEM PLUS 30% SPARE CAPACITY.
- (N-11) NOT USED.
- (N-12) ROUTE AND OFFSET SYSTEMS CABLING, ETC. PROVIDED AS PART OF THIS SCOPE OF WORK AROUND EXISTING DISTRIBUTION, JUNCTION BOXES, PULL BOXES, ETC. IN RISER ROOMS TO ACCOMMODATE INSTALLATION.
- (N-13) NOT USED.
- (N-14) NOT USED.
- (N-15) PROVIDE QUANTITY OF AMPLIFIERS, HARDWARE, SOFTWARE, POWER SUPPLIES, ETC. AS REQUIRED TO ENSURE A FULLY FUNCTIONAL PUBLIC ADDRESS SYSTEM.

- ① SPEAKER WIRE
- ② ONE PAIR PLENUM RATED - WIRE SIZE PER ATTACHED SCHEDULE
- ③ EXISTING PUBLIC ADDRESS SYSTEM HEAD END UNIT TO REMAIN - TELECOR XL
- ④ EXISTING TERMINATION BOX FOR SPEAKER ZONES AND HANDSETS
- ⑤ MULTI-CONDUCTOR CABLES - PLENUM RATED
- ⑥ ADMINISTRATIVE CONSOLE CABLE (PLENUM RATED WIRING PER MANUFACTURER'S RECOMMENDATIONS)
- ⑦ MICROPHONE CABLE
- ⑧ #22/2 AWG SHIELDED CABLE - BELDEN #8451
- ⑨ LOCK DOWN BUTTON CABLE (PLENUM RATED WIRING PER MANUFACTURER'S RECOMMENDATIONS)
- ⑩ SHIELDED GAUGE PLENUM RATED WIRES FOR TAPE/CD PLAYER/RADIO TUNER/ETC
- ⑪ SPEAKER WIRE
- ⑫ 4 PAIR PLENUM RATED CAT5E UTP CABLE - BELDEN #1213 (COLOUR TO BE DETERMINED DURING SHOP DRAWING PROCESS)

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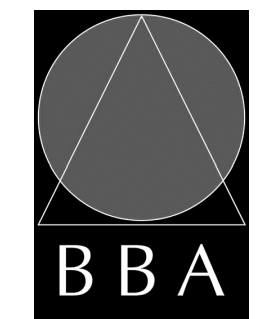


PROJECT:
**RENOVATIONS AT
ECOLE ELEMENTAIRE
FELIX-LECLERC**

50 CELESTINE DRIVE
TORONTO, ON

HCC Project Number # 24273

DRAWING:
ELECTRICAL DETAILS



**BARRY BRYAN
ASSOCIATES**

Architects
Engineers
Project Managers
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L1N 0G5
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DRAWING NO:
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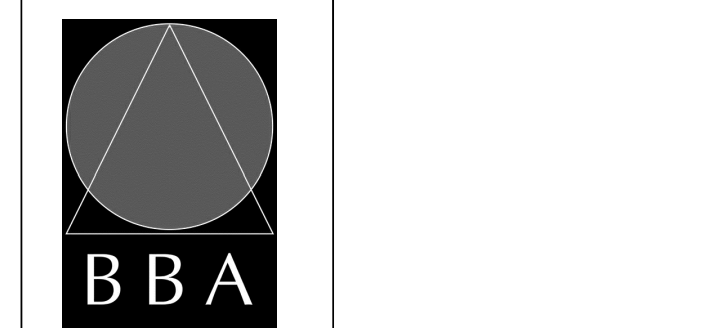
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PROJECT:
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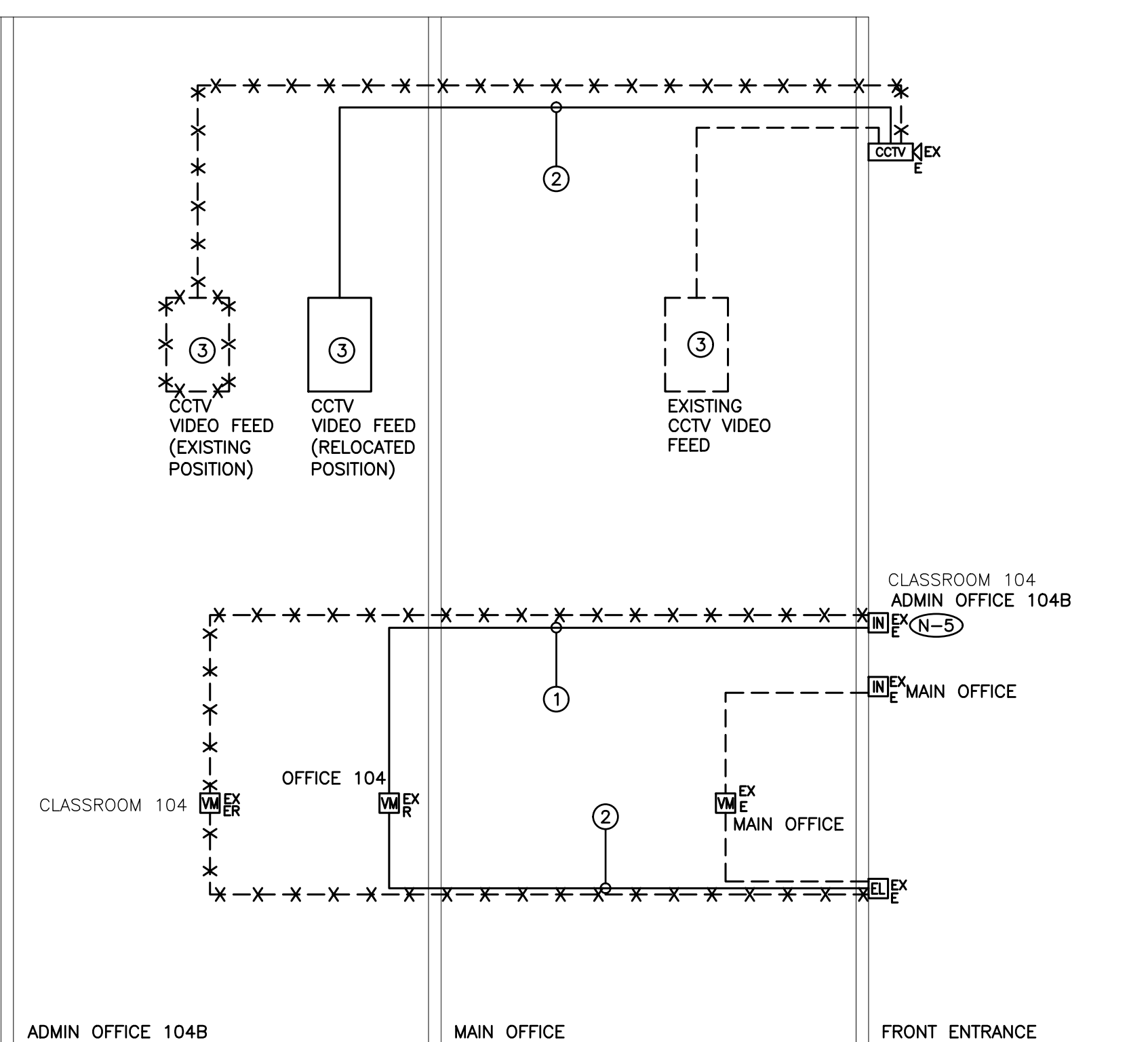
DRAWING:
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DATE: JANUARY, 2025	SCALE: AS SHOWN
FILE:	

PROJECT NO:
24194
DRAWING NO:
E-1.5



- (N-1) DETAIL IS DIAGRAMMATIC ONLY. REFER TO DRAWING NO. E-2.1 FOR ADDITIONAL REQUIREMENTS, DEVICE QUANTITY AND LOCATION.
- (N-2) ALL LOW VOLTAGE WIRING TO BE INSTALLED IN AN ENCLOSED CONDUIT SYSTEM.
- (N-3) MINIMUM WIRING REQUIREMENTS SHOWN. PROVIDE ADDITIONAL WIRING AS PER MANUFACTURER'S RECOMMENDATIONS.
- (N-4) CONTACT MANUFACTURER FOR SPECIFIC REQUIREMENTS TO TIE IN ALL COMPONENTS. PROVIDE APPROPRIATE ACCESSORIES AS REQUIRED FOR FULLY FUNCTIONAL INTERCOM SYSTEM.
- (N-5) AS PART OF THIS SCOPE OF WORK, PROVIDE PROGRAMMING, OUTPUT, HARDWARE, SOFTWARE, ETC. AS REQUIRED TO ENSURE INTERCOM SYSTEM RELOCATED AS PART OF THIS SCOPE OF WORK COMPLY WITH THE FOLLOWING SEQUENCE OF OPERATION:
 - PRESSING ON "ADMIN OFFICE 104B" DOOR STATION SHALL INITIATES COMMUNICATION REQUEST TO INTERCOM STATIONS IN ADMIN OFFICE 104B.
- (N-6) MOUNT VIDEO INTERCOM POWER SUPPLIES AND VIDEO INTERCOM DISTRIBUTION ADAPTOR TO THE WALL ABOVE T-BAR CEILING.

- ① #18/2 AWG - PLENUM RATED
- ② MULTI-CONDUCTOR CABLE PER MANUFACTURER'S RECOMMENDATIONS
- ③ EXISTING CCTV VIDEO FEED BALUN C/W ENCLOSURE - NEAT TEK NT-BL4101

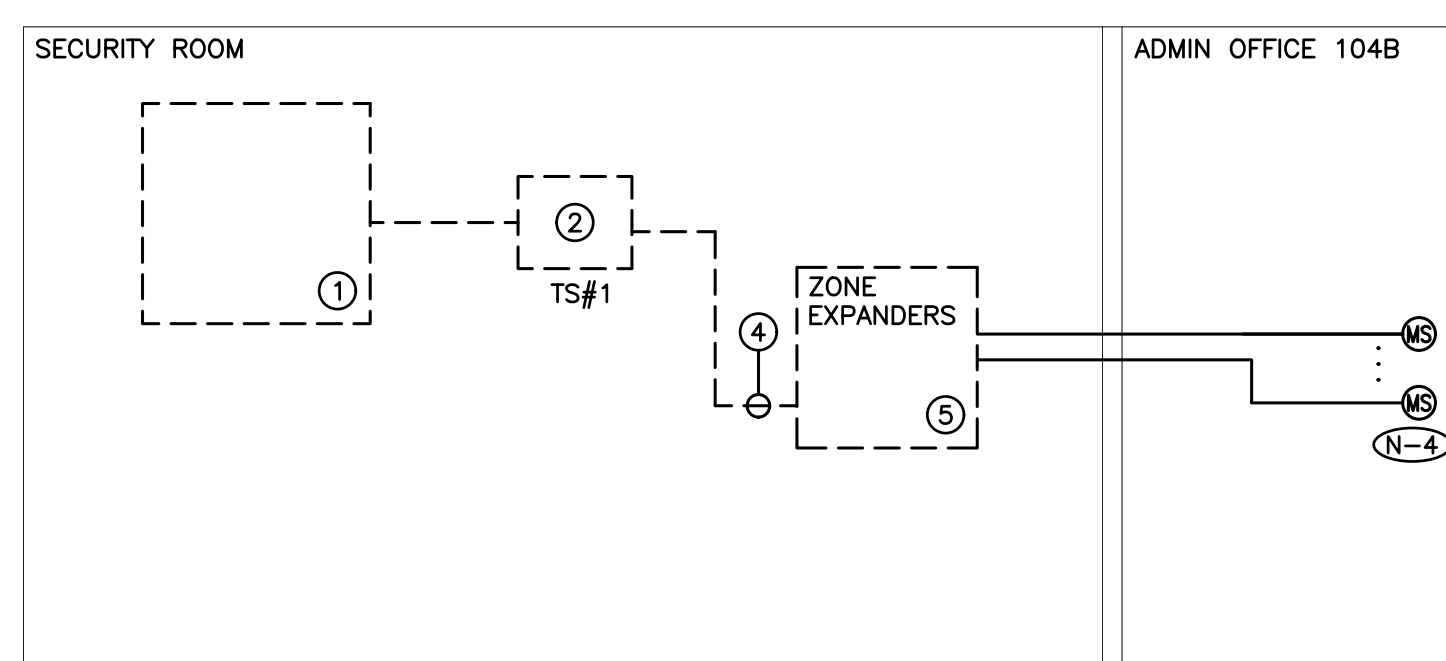
————— DENOTES NEW PROVIDED BY ELECTRICAL CONTRACTOR
 - - - - - DENOTES EXISTING TO REMAIN
 -X-X-X-X- DENOTES EXISTING TO BE REMOVED BY ELECTRICAL CONTRACTOR

1 VIDEO INTERCOM SYSTEM SCHEMATIC
E-1.5 SCALE: NTS



(N-1) PHOTOS ILLUSTRATE EXISTING INTERCOM SYSTEM INSTALLATIONS AND ARE INCLUDED FOR REFERENCE PURPOSES ONLY.

- ① EXISTING CCTV MONITOR SCREEN TO BE RELOCATED AS PART OF THIS SCOPE OF WORK
- ② EXISTING CCTV VIDEO FEED TO BE RELOCATED AS PART OF THIS SCOPE OF WORK
- ③ EXISTING CCTV MONITOR SCREEN TO REMAIN.



- (N-1) RISER IS DIAGRAMMATIC ONLY. PROVIDE QUANTITY OF CONTROL PANELS, ZONE EXPANDERS, HARDWARE, DEVICES, POWER CIRCUITS, CONDUIT, WIRE, SECURITY CABLES, ETC. TO ENSURE A FULLY OPERATIONAL SECURITY INTRUSION AND ACCESS CONTROL SYSTEM. MINIMUM REQUIREMENTS DETAILED ON DRAWING.
- (N-2) REFER TO FLOOR PLAN DRAWINGS FOR DEVICE QUANTITY AND LOCATIONS.
- (N-3) PROVIDE CONDUITS AND WIRES IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. MINIMUM CONDUIT SIZE AND WIRING REQUIREMENTS AS DETAILED ON RISER DIAGRAM.
- (N-4) ALL SECURITY SYSTEM BUS DEVICES TO BE PULLED AS HOMERUNS TO SECURITY SYSTEM JUNCTION BOX. DO NOT DAISY CHAIN SECURITY SYSTEM INTRUSION BUS (COMBUS) BETWEEN DEVICES. TERMINATE ALL WIRING ONTO TERMINAL STRIPS AND LOOP WIRING AS REQUIRED AT JUNCTION BOX.
- (N-5) ALL CONDUITS TO BE EMT. EMT COUPLING AND CONNECTORS SHALL BE T&B STEEL, SET SCREW TYPE. PROVIDE SPARE PULLSTRING IN ALL CONDUITS FOR FUTURE USE.
- (N-6) ELECTRICAL CONTRACTOR SHALL NOT USE PULLBOXES AS SUBSTITUTES FOR 90° BENDS. 12" X 12" X 6" PULLBOXES C/W TYPE SNAKE EYE SECURITY SCREWS SHALL BE PROVIDED ON THE BASIS OF NOT MORE THAN TWO (2) RIGHT ANGLE BENDS OR NOT MORE THAN 100' IN STRAIGHT RUNS BETWEEN BOXES.
- (N-7) CONTACT SECURITY MANUFACTURER FOR ADDITIONAL WIRE, CONDUIT, PULLBOX AND POWER REQUIREMENTS.
- (N-8) NOT USED.
- (N-9) EACH FIELD DEVICE SHALL BE PROGRAMMED AS AN INDIVIDUAL HARDWIRED ZONE. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- (N-10) PROVIDE DEDICATED FLOOR AND WALL PENETRATIONS. EXACT LOCATION OF ALL CORE DRILLS TO BE DETERMINED BY X-RAY RESULTS. X-RAYS MUST BE REVIEWED AND APPROVED BY TCDSB AND STRUCTURAL ENGINEER PRIOR TO CORE DRILLING.

- ① EXISTING SECURITY SYSTEM INTRUSION CONTROL PANEL - ICT PROTEGE GX
- ② EXISTING 18"W X 18"H X 10"D SECURITY SYSTEM JUNCTION BOX
- ③ NOT USED.
- ④ EXISTING SECURITY SYSTEM COMMUNICATION BUS (WIRING PER MANUFACTURER'S RECOMMENDATION) - 3/4"C
- ⑤ EXISTING SECURITY SYSTEM INTRUSION CONTROL PANEL ZONE EXPANDER C/W ENCLOSURE

————— DENOTES NEW PROVIDED BY ELECTRICAL CONTRACTOR
 - - - - - DENOTES EXISTING TO REMAIN
 -X-X-X-X- DENOTES EXISTING TO BE REMOVED BY ELECTRICAL CONTRACTOR

SECURITY CONTRACTOR MUST BE CERTIFIED TO WORK ON ICT PRODUCTS.

2 PHOTOS - INTERCOM AND CCTV SYSTEMS
E-1.5 SCALE: NTS

3 SECURITY INTRUSION AND ACCESS CONTROL SYSTEM RISER DIAGRAM
E-1.5 SCALE: NTS

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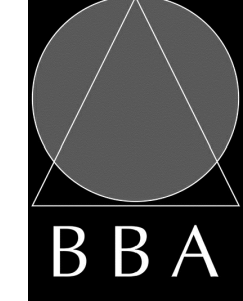
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PROJECT:
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ECOLE ELEMENTAIRE
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50 CELESTINE DRIVE
TORONTO, ON
HCC Project Number# 24273

DRAWING:
**ELECTRICAL FACILITY
PLAN**



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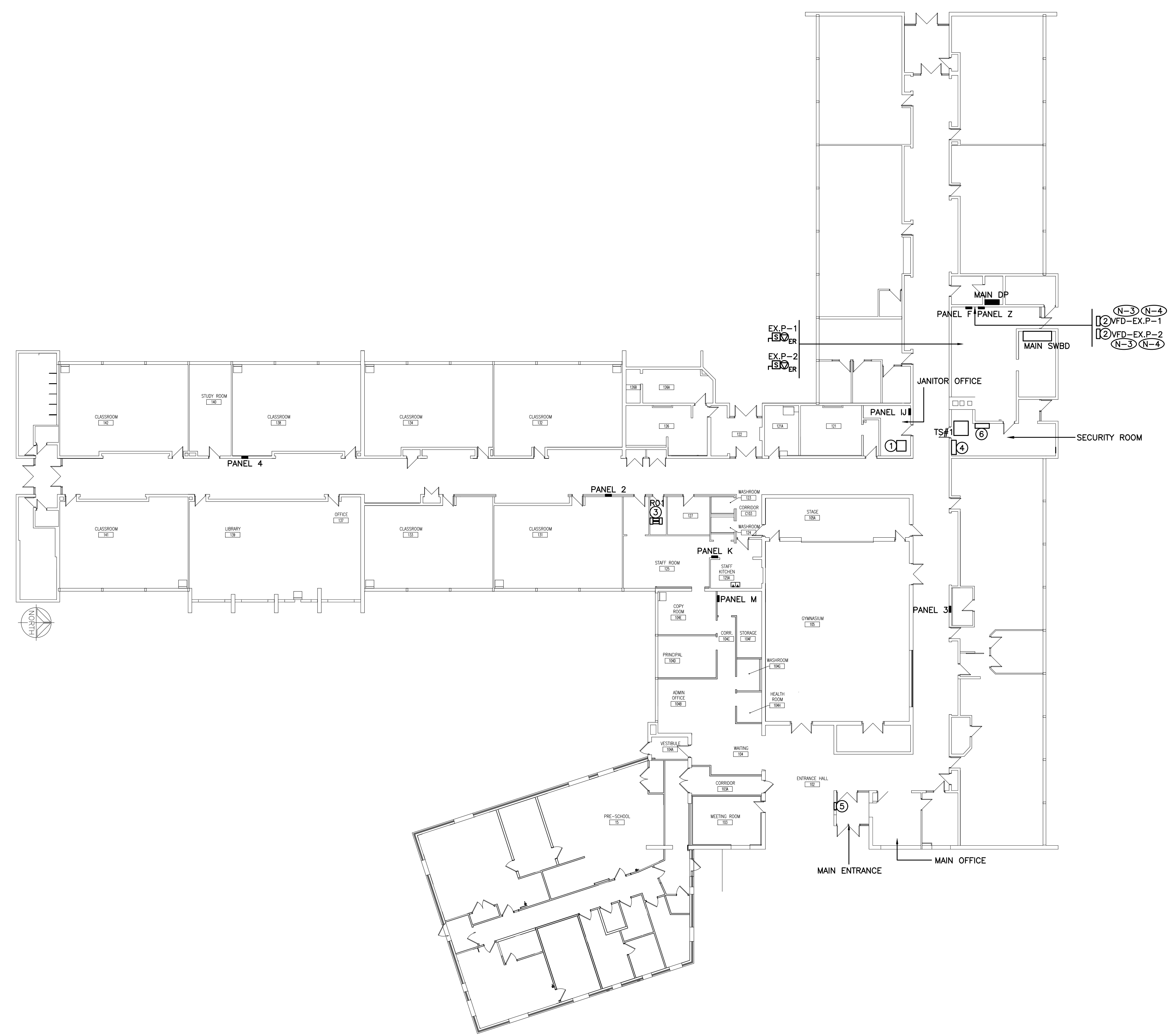
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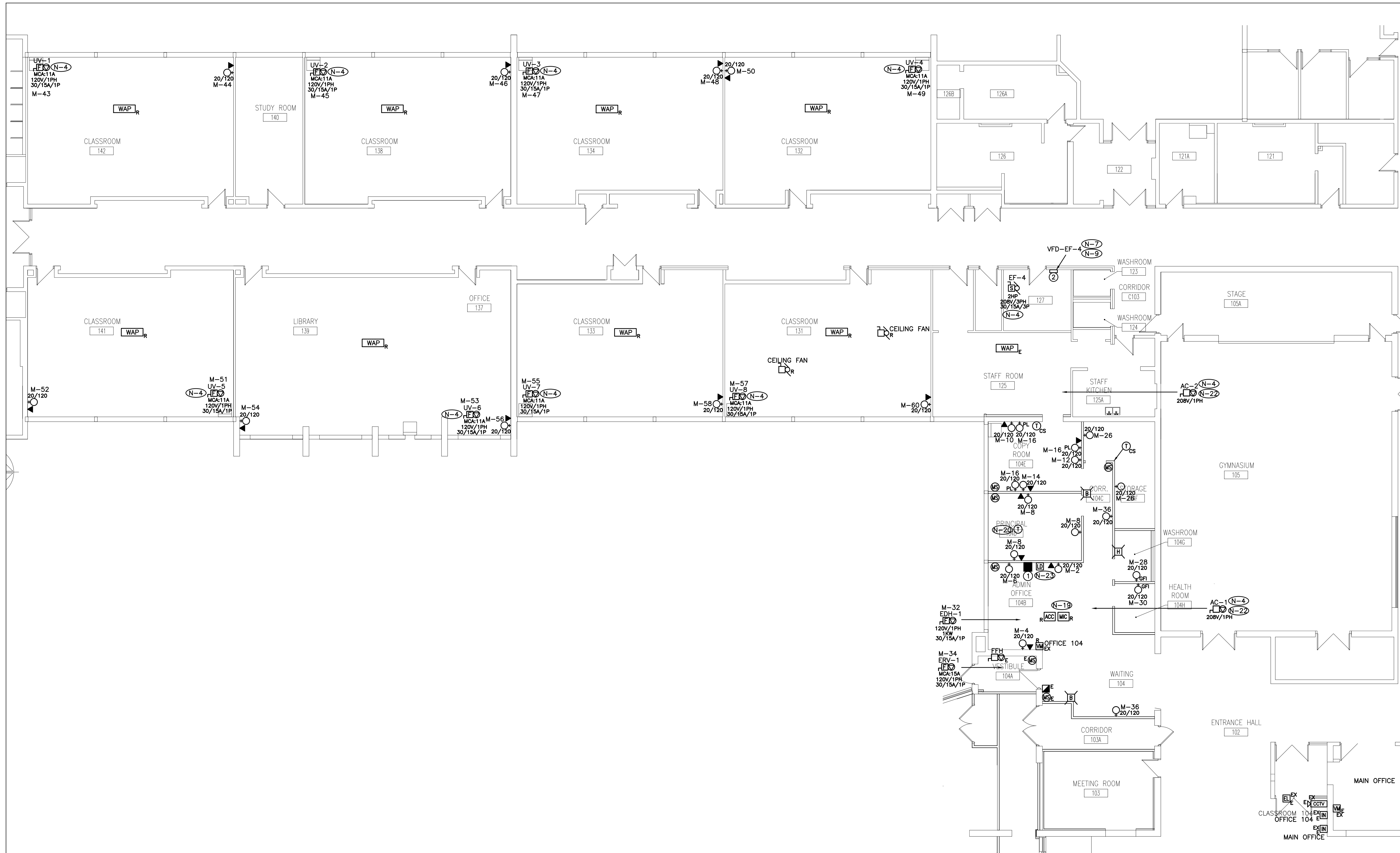
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E-2.0

- (N-1) ROUTE ALL CONDUIT SYSTEMS AROUND EXISTING DUCT WORK, BEAMS, NEW DUCT WORK AND PIPING AS REQUIRED TO ACCOMMODATE INSTALLATION.
- (N-2) EXISTING RECEPTACLE PANELS ARE SHOWN FOR REFERENCE PURPOSES ONLY.
- (N-3) PROVIDE CONNECTIONS FROM COMBINATION STARTER TO VFD AND FROM VFD TO PUMP. JUMPER OUT STARTER AS DIRECTED ON SITE BY VFD MANUFACTURER.
- (N-4) PROVIDE UNISTRUT FRAME (SLAB TO OWSJ) TO SUPPORT VFD'S PROVIDED BY MECHANICAL CONTRACTOR AND INSTALLED AS PART OF THIS SCOPE OF WORK. PROVIDE HORIZONTAL SUPPORTS / OFFSETS AS REQUIRED TO ALLOW FOR COORDINATION WITH DUCT WORK AND PIPING. COORDINATE INSTALLATION WITH MECHANICAL CONTRACTOR PRIOR TO COMMENCING WORK.

- ① EXISTING PUBLIC ADDRESS SYSTEM EQUIPMENT CABINET
- ② APPROXIMATE LOCATION TO INSTALL VFD SUPPLIED BY MECHANICAL CONTRACTOR. COORDINATE EXACT LOCATION ON SITE WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLATION.
- ③ EXISTING NETWORK EQUIPMENT RACK
- ④ EXISTING FIRE ALARM SYSTEM CONTROL PANEL
- ⑤ EXISTING FIRE ALARM SYSTEM REMOTE ANNUNCIATOR PANEL
- ⑥ EXISTING SECURITY SYSTEM INTRUSION CONTROL PANEL





- (N-1) EXACT LOCATION OF ALL DEVICES AND RESPECTIVE HEIGHTS TO BE COORDINATED ON SITE WITH TCDSB AND CONSULTANT.
- (N-2) NEATLY LABEL ALL FLOOR MOUNTED AND WALL DEVICE BOX COVERS WITH CORRESPONDING PANEL NAMES AND CIRCUIT NUMBERS. UTILIZE SELF ADHESIVE MECHANICALLY PRINTED LABELS.
- (N-3) CIRCUIT NUMBERS MAY NOT BE CHANGED WITHOUT PRIOR APPROVAL FROM THE ELECTRICAL ENGINEER.
- (N-4) CONFIRM BREAKER AND RECEPTACLE REQUIREMENTS PRIOR TO ORDERING DISTRIBUTION.
- (N-5) NOT USED.
- (N-6) PROVIDE LOCKONS FOR BREAKERS PROTECTING EMERGENCY LIGHTING CIRCUITS AND FIRE ALARM SYSTEM CIRCUITS.
- (N-7) PROVIDE UNISTRUT FRAME (SLAB TO OWS) TO SUPPORT VFD'S PROVIDED BY MECHANICAL CONTRACTOR AND INSTALLED AS PART OF THIS SCOPE OF WORK. PROVIDE HORIZONTAL SUPPORTS / OFFSETS AS REQUIRED TO ALLOW FOR COORDINATION WITH DUCT WORK AND PIPING. COORDINATE INSTALLATION WITH MECHANICAL CONTRACTOR PRIOR TO COMMENCING WORK.
- (N-8) ROUTE ALL CONDUIT SYSTEMS AROUND EXISTING DUCT WORK, BEAMS AND PIPING AS REQUIRED TO ACCOMMODATE INSTALLATION.
- (N-9) PROVIDE CONNECTIONS FROM COMBINATION STARTER TO VFD AND FROM VFD TO EXHAUST FAN. JUMPER OUT STARTER AS DIRECTED ON SITE BY VFD MANUFACTURER.

- (N-10) ELECTRICAL CONTRACTOR SHALL REMOVE AND REINSTALL EXISTING FIXTURES THROUGHOUT THE FLOOR AS REQUIRED TO ACCOMMODATE INSTALLATION OF CONDUITS PROVIDED AS PART OF THIS SCOPE OF WORK. EXISTING FIXTURES NOT SHOWN ON DRAWINGS.
- (N-11) AS PART OF THIS SCOPE OF WORK ELECTRICAL CONTRACTOR SHALL REPLACE CEILING TILES IN WHICH EXISTING DEVICES ARE CURRENTLY INSTALLED AND BEING REMOVED AS PART OF THIS SCOPE OF WORK. CEILING TILES TO MATCH EXISTING 'FIRE RATED' CEILING TILES.
- (N-12) DO NOT REUSE EXISTING FIRE ALARM DEVICES, ETC REMOVED AS PART OF THIS SCOPE OF WORK.
- (N-13) MOUNT CORRIDOR SIGNALLING DEVICES ON WALL. PROVIDE FINISHED SURFACE MOUNTED BACKBOXES. DO NOT MOUNT CORRIDOR SIGNALLING DEVICES IN CEILING SPACE.
- (N-14) ELECTRICAL CONTRACTOR SHALL REMOVE AND REINSTALL EXISTING FIXTURES AND CEILING TILES THROUGHOUT THE FLOOR AS REQUIRED TO ACCOMMODATE ALL SCOPES OF WORK.

- (N-15) DRAWINGS DO NOT INDICATE EXISTING CEILING TYPES / CEILING GRID.
- (N-16) AS PART OF THIS SCOPE OF WORK ELECTRICAL CONTRACTOR TO PROVIDE PERMANENT ACCESS PANELS AS REQUIRED TO FACILITATE ROUTING OF SERVICES ACROSS FINISHED CEILING SPACES.
- (N-17) PROVIDE ULC APPROVED DAMPENING MATERIALS AS REQUIRED DURING VERIFICATION FOR ALL HORNS PROVIDED AS PART OF THIS SCOPE OF WORK AND FOR ALL EXISTING HORN SPEAKERS TO DECREASE AUDIBILITY LEVELS TO BELOW 100 DBA.
- (N-18) LAYOUT OF HORNS AND STROBE LIGHTS TO BE AS DIRECTED ON SITE BY FIRE ALARM SYSTEM MANUFACTURER.
- (N-19) MOUNT ADMINISTRATIVE CONTROL CONSOLE INDICATED ON DESK, COORDINATE EXACT LOCATION ON SITE WITH PRINCIPAL.
- (N-20) PROVIDE VOLUME CONTROL SWITCH FOR PUBLIC ADDRESS SYSTEM SPEAKER INDICATED.
- (N-21) CONFIRM EXACT LOCATION TO INSTALL VIDEO INTERCOM STATION INDICATED ON SITE WITH PROJECT MANAGER.
- (N-22) EVAPORATOR UNIT AC-1 AND AC-2 ARE POWERED THROUGH CONDENSER UNIT CU-9. PROVIDE CONDUIT AND WIRE.
- (N-23) CONFIRM EXACT LOCATION TO INSTALL LOCK DOWN PUSH BUTTON INDICATED ON SITE WITH PROJECT MANAGER.

- ① EXISTING AUDIO SYSTEM EQUIPMENT CABINET IN RELOCATED POSITION
- ② APPROXIMATE LOCATION TO INSTALL VFD SUPPLIED BY MECHANICAL CONTRACTOR. COORDINATE EXACT LOCATION ON SITE WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLATION.

FIRE ALARM SYSTEM AUDIBILITY TESTING TO BE COMPLETED WITH ALL DOORS OPEN

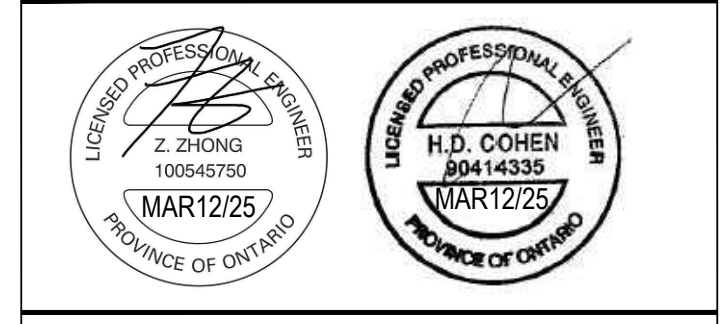
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PROJECT:
**RENOVATIONS AT
ECOLE ELEMENTAIRE
FELIX-LECLERC**
50 CELESTINE DRIVE
TORONTO, ON
HCC Project Number # 24273

DRAWING:
ELECTRICAL PLAN

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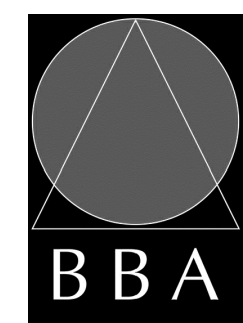
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PROJECT:
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50 CELESTINE DRIVE
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DRAWING:
ELECTRICAL ROOF PLAN

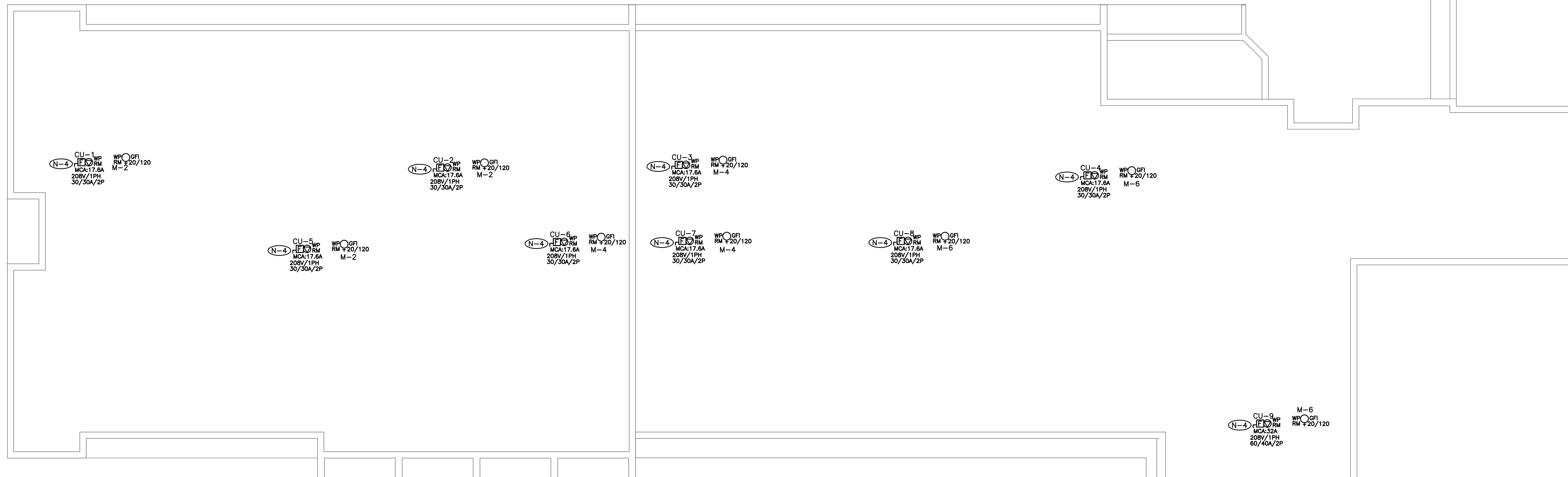


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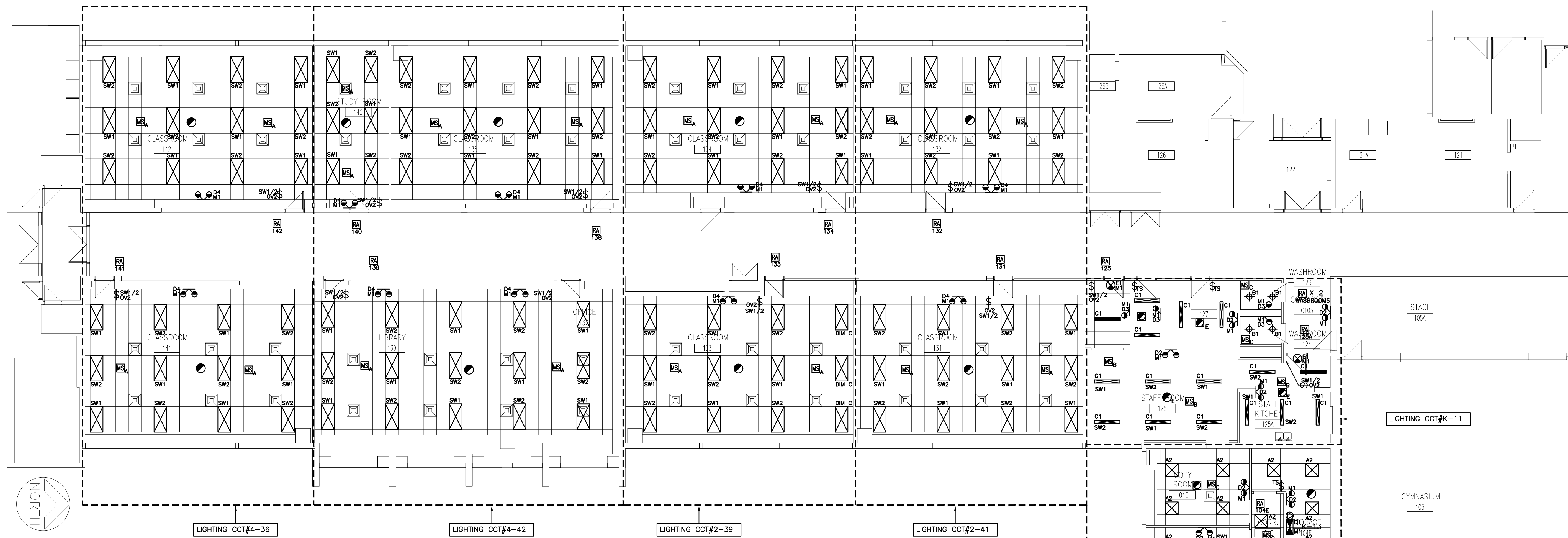
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PROJECT NO: **24194** DRAWING NO: **E-2.2**




- (N-1) EXACT LOCATION OF ALL DEVICES AND RESPECTIVE HEIGHTS TO BE COORDINATED ON SITE WITH DESIGNER.
- (N-2) NEATLY LABEL ALL FLOOR MOUNTED AND WALL DEVICE BOX COVERS AND UTILITY POLES WITH CORRESPONDING PANEL NAMES AND CIRCUIT NUMBERS. UTILIZE SELF ADHESIVE MECHANICALLY PRINTED LABELS.
- (N-3) CIRCUIT NUMBERS MAY NOT BE CHANGED WITHOUT PRIOR APPROVAL FROM THE ELECTRICAL ENGINEER.
- (N-4) CONFIRM BREAKER/FUSE AND RECEPTACLE/DISCONNECT REQUIREMENTS PRIOR TO INSTALLATION.
- (N-5) COORDINATE WIRING REQUIREMENTS FOR MECHANICAL EQUIPMENT ON SITE WITH MECHANICAL CONTRACTOR.
- (N-6) CONFIRM ELECTRICAL REQUIREMENTS AND EXACT LOCATION OF ALL MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLATION OF ELECTRICAL SERVICES.
- (N-7) ALL FINAL CONNECTIONS TO MECHANICAL EQUIPMENT ARE TO BE IN LIQUID TIGHT FLEXIBLE CONDUIT.
- (N-8) ROUTE ALL CONDUIT SYSTEMS AROUND EXISTING DUCT WORK, BEAMS, NEW DUCT WORK AND PIPING AS REQUIRED TO ACCOMMODATE INSTALLATION. REFER TO MECHANICAL DRAWINGS AND DESIGNER DRAWINGS FOR ADDITIONAL DETAILS.
- (N-9) USE PVC COATED GALVANIZED RIGID STEEL CONDUIT ROBOY PERMACOTE IN ALL OUTDOOR LOCATIONS AND IN AREAS THAT ARE NOT ENVIRONMENTALLY CONTROLLED.
- (N-10) PROVIDE REQUIRED PENETRATIONS THROUGH ROOF AND BUILDING ENVELOP. COORDINATE WORK AND WEATHERPROOF SEALING REQUIREMENTS WITH LANDLORD.
- (N-11) MINIMUM WIRE SIZE #10AWG FOR ALL 120 VOLT CIRCUITS EXCEEDING 90 FEET IN LENGTH.



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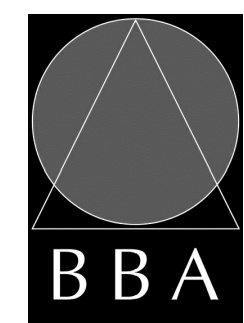



PROJECT:
**RENOVATIONS AT
ECOLE ELEMENTAIRE
FELIX-LECLERC**

50 CELESTINE DRIVE
TORONTO, ON

HCC Project Number # 24273

DRAWING:
**REFLECTED CEILING
PLAN**



**BARRY BRYAN
ASSOCIATES**

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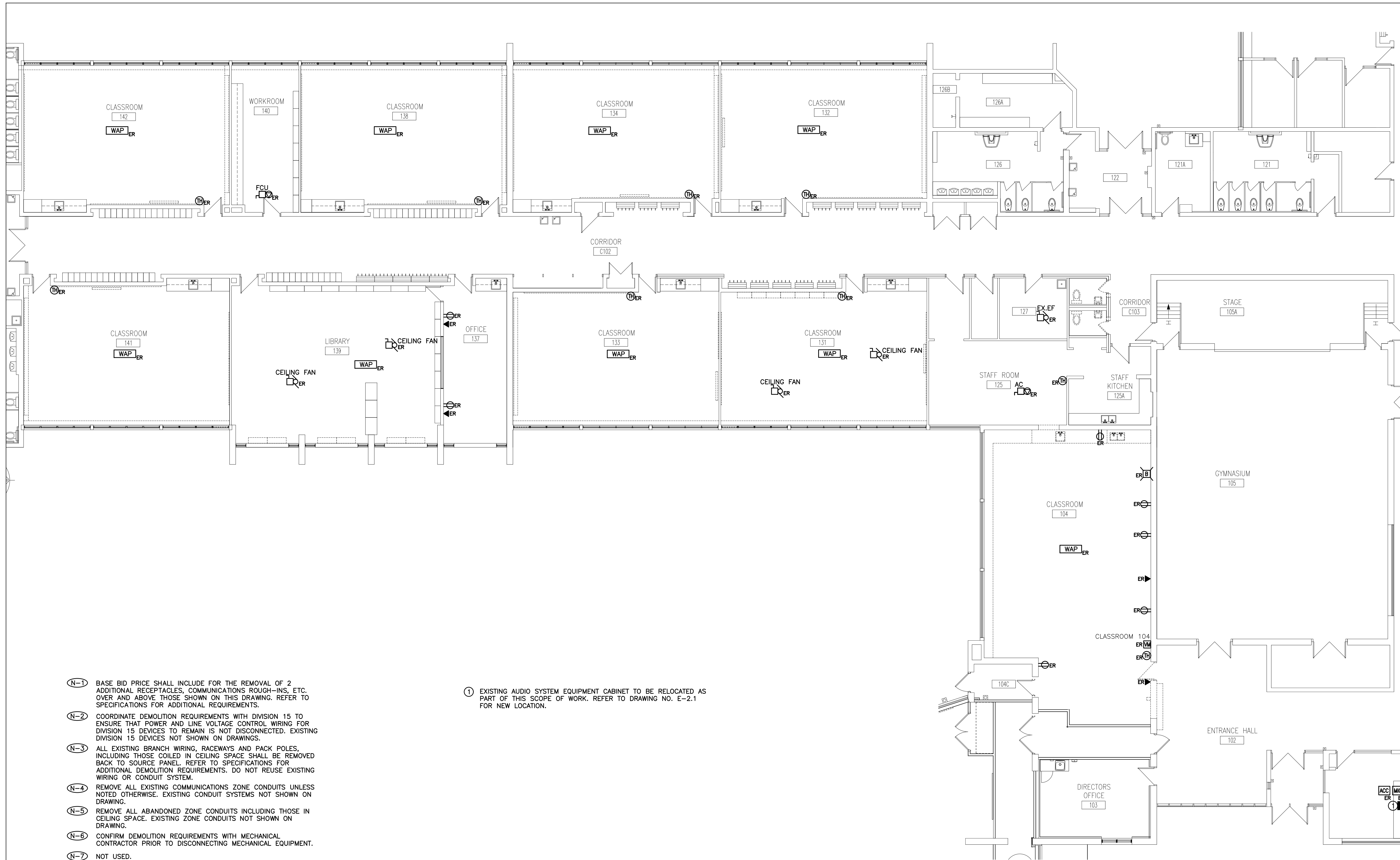
PROJECT NO: **24194**

DRAWING NO: **E-3.1**

- N-1 REFER TO ARCHITECT DRAWINGS FOR EXACT LOCATION AND HEIGHTS FOR MOUNTING OF FIXTURES, OCCUPANCY SENSORS, LIGHT SWITCHES, FIRE ALARM DEVICES, ETC.
 - N-2 PROVIDE NEW LIGHTING FIXTURES, EXIT SIGNS, SWITCHES, OCCUPANCY SENSORS, FIRE ALARM DEVICES, ETC. TO SUIT NEW REFLECTED CEILING PLAN.
 - N-3 ALL FIXTURES TYPE "A1" UNLESS DENOTED OTHERWISE.
 - N-4 COORDINATE INSTALLATION OF FIXTURES WITH MECHANICAL EQUIPMENT, ELECTRICAL EQUIPMENT, SPRINKLERS AND DUCT WORK.
 - N-5 CHAIN HANG ALL FIXTURES PROVIDED AS PART OF THIS SCOPE OF WORK IN FINISHED CEILING AREAS ABOVE FROM UNISTRUT GRID PROVIDED BY GENERAL CONTRACTOR (RETROFIT FIXTURES ACCORDINGLY).
 - N-6 AS PART OF THE BASE BID PRICE ELECTRICAL CONTRACTOR SHALL PROVIDE (SUPPLY AND INSTALL) AN ADDITIONAL ONE (1) TYPE E1 EXIT SIGNS EACH COMPLETE WITH 100'-0" OF CONDUIT AND WIRING OVER AND ABOVE THOSE SHOWN ON DRAWING NO. E-3.1 POST CITY FIRE / BUILDING DEPARTMENT INSPECTIONS.
 - N-7 ALL EXIT SIGNS TYPE "E1" UNLESS INDICATED OTHERWISE.
 - N-8 UTILIZE CCT #K-13 (DC SOURCE M1) TO POWER EXIT SIGN AC BULBS AND 24 HOUR LIGHTING.
 - N-9 LOCATE AND POSITION EXIT SIGNS SUCH THAT THEY DO NOT INTERFERE WITH ADJACENT EXIT SIGNS AND EMERGENCY LIGHTING COVERAGE.
 - N-10 ALL SWITCHES PROVIDED AS PART OF THIS SCOPE OF WORK TO BE ALIGNED WITH THERMOSTATS.
 - N-11 NOT USED.
 - N-12 MOUNTING STYLE (CEILING/WALL), HEIGHT AND LOCATION OF EXIT SIGNS TO BE DETERMINED BY DESIGNER ON SITE. COORDINATE AND REVIEW ALL EXIT SIGN LOCATIONS WITH DESIGNER PRIOR TO ORDERING EXIT SIGNS.
 - N-13 PROVIDE LOCK ON FOR BREAKERS PROTECTING EMERGENCY LIGHTING SYSTEMS.
 - N-14 NOT USED.
 - N-15 AS PART OF THE BASE BID PRICE ELECTRICAL CONTRACTOR SHALL PROVIDE (SUPPLY AND INSTALL) AN ADDITIONAL TWO (2) DIGITAL DIMMING ROOM CONTROLLERS OVER AND ABOVE THOSE SHOWN ON DRAWING NO. E-3.1 ON AN AD HOC BASIS UP TO SUBSTANTIAL COMPLETION.
- PROVIDE WATT STOPPER LMRC-212 C/W CONDUIT, WIRE (75' OF 2#12AWG + G (TOTAL OF 150' WIRE PLUS G, 75' CONDUIT) PER ROOM CONTROLLER), TERMINATIONS, ETC. FOR FULLY FUNCTIONAL LIVE DEVICES. EXACT INSTALLATION LOCATION AND SWITCH LEGS TO BE DETERMINED ON SITE DURING CONSTRUCTION.
- N-16 DO NOT REUSE EXISTING FIRE ALARM SYSTEM DEVICES, EXIT SIGNS, OCCUPANCY SENSORS, DIMMERS OR SWITCHES REMOVED AS PART OF THIS SCOPE OF WORK.
 - N-17 ELECTRICAL CONTRACTOR TO ENSURE THAT DEVICES ARE NOT INSTALLED ON WALLS WITH WHITE BOARDS OR ON FEATURE WALLS. CONFIRM WHITE BOARD AND FEATURE WALL LOCATIONS PRIOR TO INSTALLATION.

- N-18 AS PART OF THIS SCOPE OF WORK ELECTRICAL CONTRACTOR TO HAVE WATT STOPPER SERVICE CONSULTANT ONSITE AFTER LIGHTING AND HVAC INSTALLATION IS COMPLETE AND PRIOR TO INSTALLATION OF SENSORS PROVIDED AS PART OF THIS SCOPE OF WORK TO CONFIRM PLACEMENT OF SENSORS.
- N-19 CEILING MOUNTED OCCUPANCY SENSORS PROVIDED AS PART OF THIS SCOPE OF WORK MUST BE INSTALLED AT LEAST 6' AWAY FROM ALL SUPPLY AIR DIFFUSERS AND RETURN AIR GRILLS. COORDINATE EXACT INSTALLATION LOCATION WITH WATT STOPPER LIGHTING CONTROL SERVICE CONSULTANT AND MECHANICAL CONTRACTOR PRIOR TO COMMENCING WORK.
- N-20 CEILING MOUNTED OCCUPANCY SENSORS IN ROOMS WITH DLM CONTROL TO BE PROGRAMMED SUCH THAT THE FUNCTION OF AUTO-ON IS DISABLED. ALL LIGHT FIXTURES WITHIN RESPECTIVE ENCLOSED SPACES SHALL BE TURNED ON MANUALLY THROUGH LOW VOLTAGE OVERRIDE SWITCHES PROVIDED AS PART OF THIS SCOPE OF WORK UNLESS INDICATED OTHERWISE.
- N-21 ALL ROOM CONTROLLERS PROVIDED AS PART OF THIS SCOPE OF WORK MUST BE INSTALLED WITHIN CEILING MOUNTED JUNCTION BOXES PROVIDED AS PART OF THIS SCOPE OF WORK.
- N-22 EACH AND EVERY SPACE ENCLOSED BY CEILING HEIGHT PARTITIONS (IE. OFFICES, MEETING ROOMS, ENCLAVES, ETC.) WITH DLM CONTROL TO BE WIRED WITH TWO CONTROLLABLE SWITCH-LEGS SUCH THAT THERE IS ONE CONTROL STEP OF NOT MORE THAN 50% LIGHTING POWER IN ADDITION TO AN AUTO OFF IN THE RESPECTIVE SPACE. REFER TO ASHRAE 90.1 2013 FOR ADDITIONAL REQUIREMENTS.
- N-23 SWITCH/DIMMING LEGS SHALL BE WIRED SUCH THAT LEG IS CONTROLLED BY OCCUPANCY SENSORS IN RESPECTIVE SPACE ENCLOSED BY CEILING HEIGHT PARTITIONS. OPERATION OF SAME LIGHT BRANCH CIRCUIT IN ADJACENT AREAS/ROOMS SHALL NOT AFFECT OPERATION OF LIGHTING IN RESPECTIVE AREA. REWIRE EXISTING FIXTURES AS REQUIRED.
- N-24 AS PART OF THIS SCOPE OF WORK EMPLOY AND PAY FOR THE SERVICES OF A CERTIFIED WATT STOPPER SERVICE CONSULTANT TO COMMISSION ALL CEILING MOUNTED OCCUPANCY SENSORS PROVIDED AS PART OF THIS SCOPE OF WORK. COMMISSIONING AND DOCUMENTATION SHALL BE COMPLETED; DETAILED AS REQUIRED TO DEMONSTRATE LEED COMPLIANCE.
- N-25 AS PART OF THE BASE BID PRICE ELECTRICAL CONTRACTOR SHALL PROVIDE (SUPPLY AND INSTALL) AN ADDITIONAL FOUR (4) TYPE 'A' CEILING MOUNTED OCCUPANCY SENSORS, 100'-0" OF CONDUIT AND WIRING OVER AND ABOVE THOSE SHOWN ON DRAWING NO. E-3.1 POST SUBSTANTIAL COMPLETION.
- N-26 NOT USED.
- N-27 NOT USED.
- N-28 ELECTRICAL CONTRACTOR SHALL REMOVE AND REINSTALL EXISTING FIXTURES, FIRE ALARM SYSTEM DEVICES, PUBLIC ADDRESS SYSTEM SPEAKERS, ETC. THROUGHOUT THE FLOOR AS REQUIRED TO ACCOMMODATE INSTALLATION OF DUCT WORK AND MECHANICAL EQUIPMENT, ETC PROVIDED BY DIVISION 15. COORDINATE EXACT REQUIREMENTS ON SITE WITH MECHANICAL CONTRACTOR.
- N-29 ALL DEVICES, FIXTURES, FIRE ALARM DEVICES, SYSTEMS, ETC. MUST BE WIRED SUCH THAT ACCESS PANELS ARE NOT REQUIRED IN DRYWALL CEILING AREAS.

REFER TO DETAIL NO. 2 ON
DRAWING NO. E-1.3 FOR
FIXTURE SCHEDULE



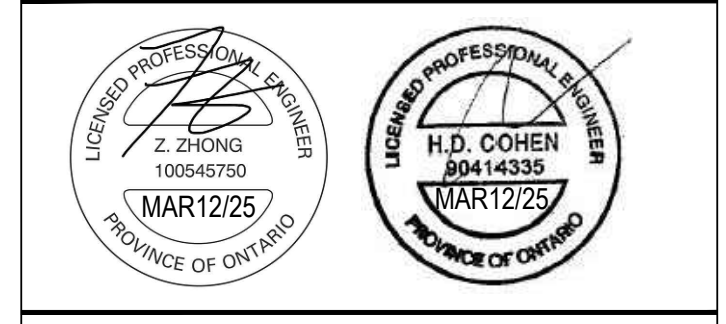
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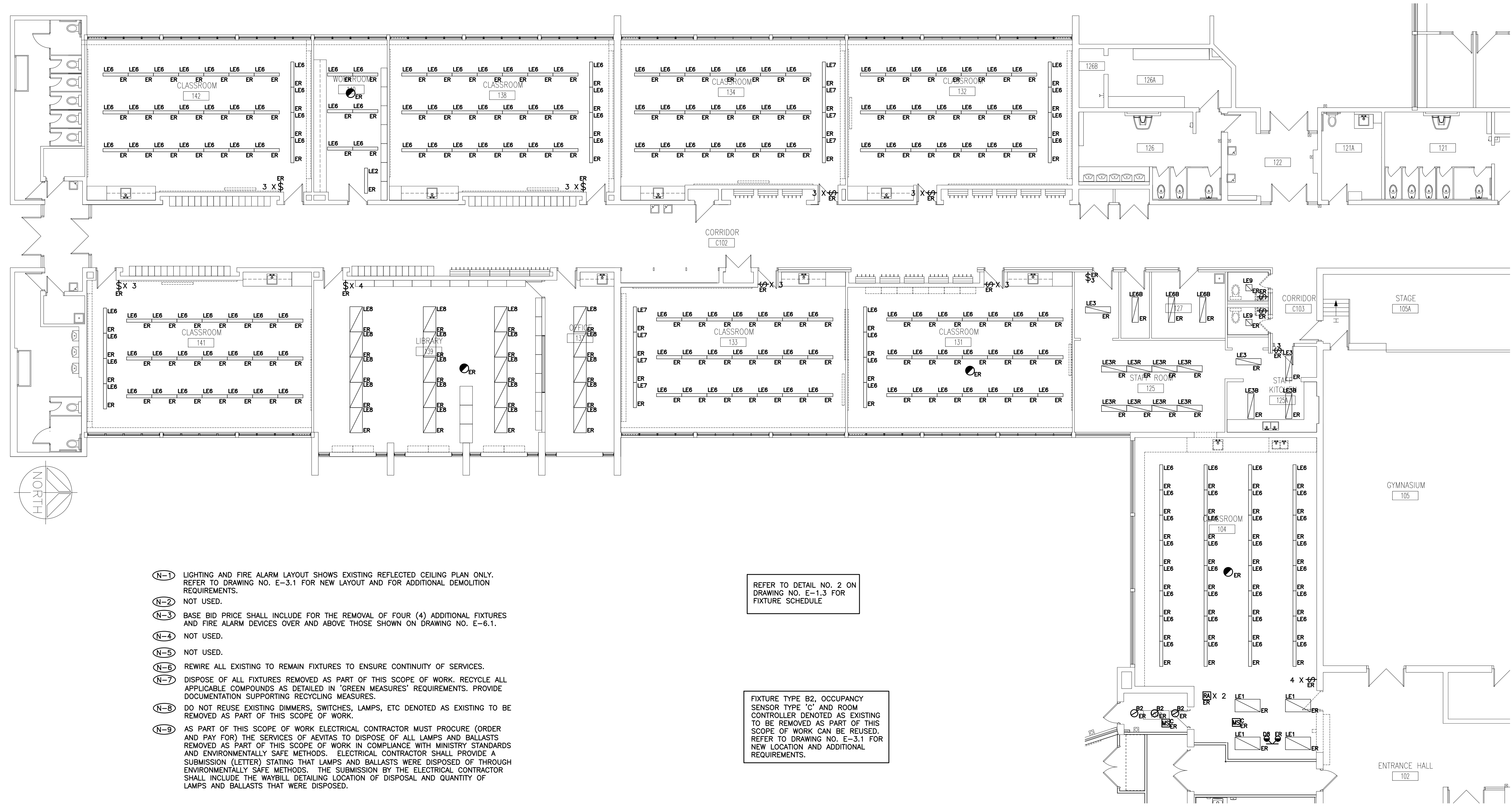
DRAWING:
**ELECTRICAL DEMOLITION
PLAN**

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PROJECT NO: **24194** DRAWING NO: **E-5.1**

- (N-1) BASE BID PRICE SHALL INCLUDE FOR THE REMOVAL OF 2 ADDITIONAL RECEPTACLES, COMMUNICATIONS ROUGH-INS, ETC. OVER AND ABOVE THOSE SHOWN ON THIS DRAWING. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
 - (N-2) COORDINATE DEMOLITION REQUIREMENTS WITH DIVISION 15 TO ENSURE THAT POWER AND LINE VOLTAGE CONTROL WIRING FOR DIVISION 15 DEVICES TO REMAIN IS NOT DISCONNECTED. EXISTING DIVISION 15 DEVICES NOT SHOWN ON DRAWINGS.
 - (N-3) ALL EXISTING BRANCH WIRING, RACEWAYS AND PACK POLES, INCLUDING THOSE COILED IN CEILING SPACE SHALL BE REMOVED BACK TO SOURCE PANEL. REFER TO SPECIFICATIONS FOR ADDITIONAL DEMOLITION REQUIREMENTS. DO NOT REUSE EXISTING WIRING OR CONDUIT SYSTEM.
 - (N-4) REMOVE ALL EXISTING COMMUNICATIONS ZONE CONDUITS UNLESS NOTED OTHERWISE. EXISTING CONDUIT SYSTEMS NOT SHOWN ON DRAWING.
 - (N-5) REMOVE ALL ABANDONED ZONE CONDUITS INCLUDING THOSE IN CEILING SPACE. EXISTING ZONE CONDUITS NOT SHOWN ON DRAWING.
 - (N-6) CONFIRM DEMOLITION REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO DISCONNECTING MECHANICAL EQUIPMENT.
 - (N-7) NOT USED.
 - (N-8) REWIRE ALL EXISTING TO REMAIN DEVICES AS REQUIRED TO ENSURE CONTINUITY OF SERVICES. EXISTING TO REMAIN DEVICES NOT SHOWN ON DRAWING.
- (1) EXISTING AUDIO SYSTEM EQUIPMENT CABINET TO BE RELOCATED AS PART OF THIS SCOPE OF WORK. REFER TO DRAWING NO. E-2.1 FOR NEW LOCATION.



- (N-1) LIGHTING AND FIRE ALARM LAYOUT SHOWS EXISTING REFLECTED CEILING PLAN ONLY. REFER TO DRAWING NO. E-3.1 FOR NEW LAYOUT AND FOR ADDITIONAL DEMOLITION REQUIREMENTS.
- (N-2) NOT USED.
- (N-3) BASE BID PRICE SHALL INCLUDE FOR THE REMOVAL OF FOUR (4) ADDITIONAL FIXTURES AND FIRE ALARM DEVICES OVER AND ABOVE THOSE SHOWN ON DRAWING NO. E-6.1.
- (N-4) NOT USED.
- (N-5) NOT USED.
- (N-6) REWIRE ALL EXISTING TO REMAIN FIXTURES TO ENSURE CONTINUITY OF SERVICES.
- (N-7) DISPOSE OF ALL FIXTURES REMOVED AS PART OF THIS SCOPE OF WORK. RECYCLE ALL APPLICABLE COMPOUNDS AS DETAILED IN 'GREEN MEASURES' REQUIREMENTS. PROVIDE DOCUMENTATION SUPPORTING RECYCLING MEASURES.
- (N-8) DO NOT REUSE EXISTING DIMMERS, SWITCHES, LAMPS, ETC DENOTED AS EXISTING TO BE REMOVED AS PART OF THIS SCOPE OF WORK.
- (N-9) AS PART OF THIS SCOPE OF WORK ELECTRICAL CONTRACTOR MUST PROCURE (ORDER AND PAY FOR) THE SERVICES OF AEVITAS TO DISPOSE OF ALL LAMPS AND BALLASTS REMOVED AS PART OF THIS SCOPE OF WORK IN COMPLIANCE WITH MINISTRY STANDARDS AND ENVIRONMENTALLY SAFE METHODS. ELECTRICAL CONTRACTOR SHALL PROVIDE A SUBMISSION (LETTER) STATING THAT LAMPS AND BALLASTS WERE DISPOSED OF THROUGH ENVIRONMENTALLY SAFE METHODS. THE SUBMISSION BY THE ELECTRICAL CONTRACTOR SHALL INCLUDE THE WAYBILL DETAILING LOCATION OF DISPOSAL AND QUANTITY OF LAMPS AND BALLASTS THAT WERE DISPOSED.

REFER TO DETAIL NO. 2 ON DRAWING NO. E-1.3 FOR FIXTURE SCHEDULE

FIXTURE TYPE B2, OCCUPANCY SENSOR TYPE 'C' AND ROOM CONTROLLER DENOTED AS EXISTING TO BE REMOVED AS PART OF THIS SCOPE OF WORK CAN BE REUSED. REFER TO DRAWING NO. E-3.1 FOR NEW LOCATION AND ADDITIONAL REQUIREMENTS.

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PROJECT:
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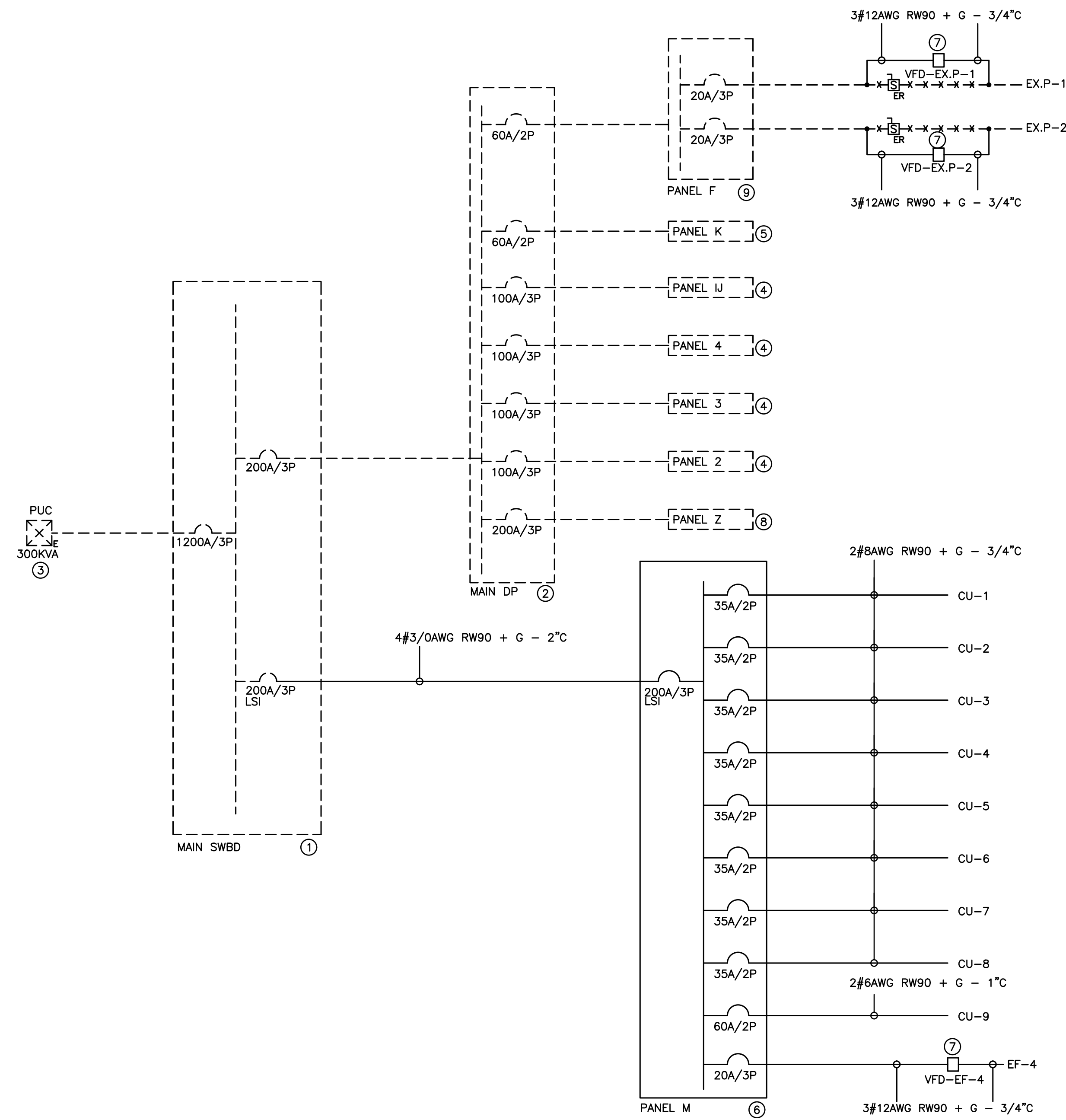
DRAWING:
**REFLECTED CEILING
DEMOLITION PLAN**

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PROJECT NO:
24194

DRAWING NO:
E-6.1



- (N-1) RISER IS DIAGRAMMATIC ONLY. REFER TO FLOOR PLANS FOR DEVICE QUANTITY AND LOCATIONS.
- (N-2) PROVIDE FIRE RATED PLYWOOD BACKBOARDS FOR ALL ELECTRICAL DISTRIBUTION EQUIPMENT PROVIDED AS PART OF THIS CONTRACT. PAINT BACKBOARDS WITH FIRE RETARDANT PAINT (COLOUR AS DIRECTED ON SITE BY PROJECT MANAGER). FIRE RATED STAMP MUST BE ON ALL PIECES PROVIDED AND MUST BE VISIBLE WHEN INSTALLED. DO NOT PAINT OVER STAMP.
- (N-3) ALL INDOOR DISTRIBUTION PROVIDED AS PART OF THIS SCOPE OF WORK MUST BE TYPE 2 ENCLOSURE, UNLESS SPECIFICALLY NOTED OTHERWISE. PROVIDE COMPRESSION FITTINGS FOR SERVICES ENTERING DISTRIBUTION.
- (N-4) PROVIDE DEDICATED CORE DRILLED WALL AND FLOOR PENETRATIONS ON EVERY FLOOR. EXACT LOCATION OF ALL CORE DRILLS TO BE DETERMINED BY X-RAY RESULTS. ALL X-RAYS MUST BE REVIEWED AND APPROVED BY LANDLORD PRIOR TO CORE DRILLING.
- (N-5) NOT USED.
- (N-6) ALL BREAKERS REQUIRED TO COMPLETE ALL SCOPES OF WORK TO BE NEW. DO NOT REUSE EXISTING BREAKERS.
- (N-7) ROUTE ALL CONDUIT SYSTEMS AROUND EXISTING DUCT WORK, BEAMS, NEW DUCT WORK AND PIPING AS REQUIRED TO ACCOMMODATE ALL INSTALLATION REQUIREMENTS. REFER TO MECHANICAL DRAWINGS AND DESIGNER DRAWINGS FOR ADDITIONAL DETAILS.
- (N-8) PROVIDE TEMPORARY POWER AND LIGHTING THROUGHOUT PROJECT TO ACCOMMODATE REQUIREMENTS OF ALL TRADES. REQUIREMENTS INCLUDE PROVIDING EXTENSION CORDS, EXTENSION LIGHTING AND EQUIPMENT REQUIRED FOR THE WORK OF ALL TRADES. ALL COSTS RELATED TO THIS WORK SHALL BE INCLUDED IN THE BASE BID PRICE.

- (1) EXISTING SERVICE ENTRANCE SWITCH BOARD - 120/208V/3PH/4W/1200A MCB/SQ D QED/50KA RMS
- (2) EXISTING DISTRIBUTION PANEL - 120/208V/3PH/4W/600A MAINS/EATON PL3A/50KA RMS
- (3) EXISTING PAD MOUNT UTILITY TRANSFORMER - 2400/4160V/120/208V/3PH/4W
- (4) EXISTING RECEPTACLE PANEL - 120/208V/3PH/4W/100A MAINS/42 CCT/EATON PL1A/10KA RMS
- (5) EXISTING RECEPTACLE PANEL - 120/240V/1PH/3W/100A MAINS/18 CCT/EATON PL1A/10KA RMS
- (6) RECEPTACLE PANEL - 120/208V/3PH/4W/200A MCB/84CCT 20"W/SQ D NQ/COPPER BUS/10KA RMS
- (7) VFD SUPPLIED BY MECHANICAL CONTRACTOR AND INSTALLED BY ELECTRICAL CONTRACTOR
- (8) EXISTING RECEPTACLE PANEL - 120/208V/3PH/4W/225A MAINS/42 CCT/EATON PL1A/10KA RMS
- (9) EXISTING RECEPTACLE PANEL - 120/208V/3PH/4W/225A MAINS/42 CCT/SQ D E2/10KA RMS

_____ DENOTES NEW PROVIDED BY ELECTRICAL CONTRACTOR
 - - - - - DENOTES EXISTING TO REMAIN
 * * * * * DENOTES EXISTING TO BE REMOVED BY ELECTRICAL CONTRACTOR

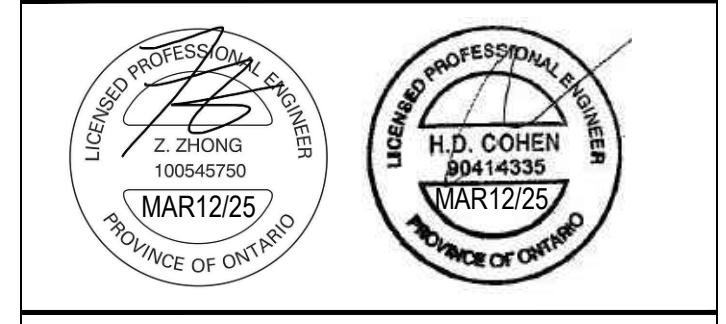
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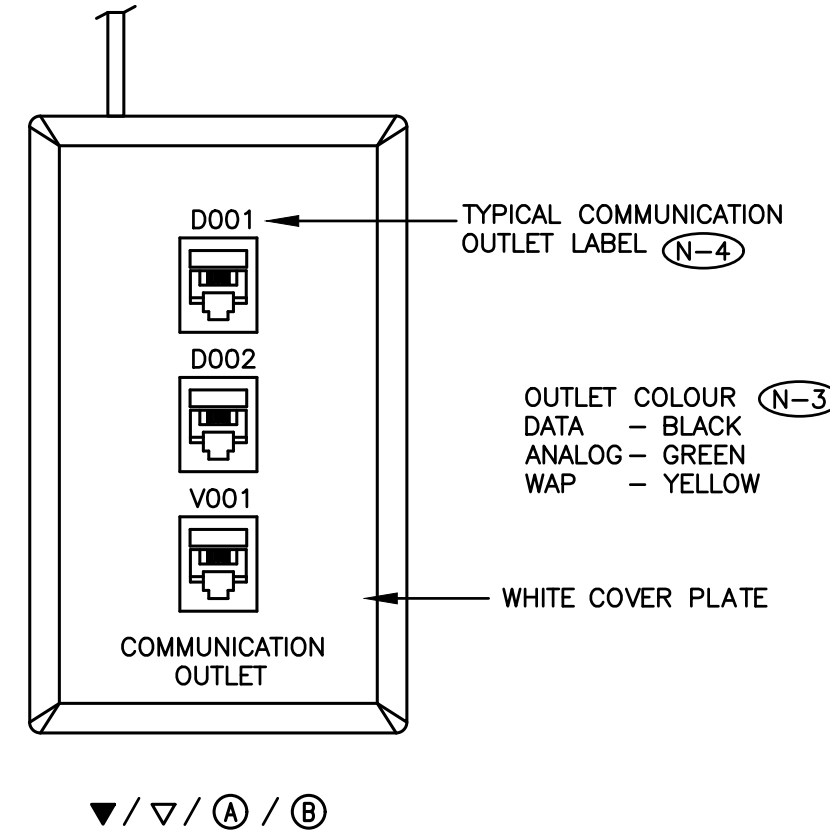
DRAWING:
**ELECTRICAL
SINGLE LINE DIAGRAM**

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PROJECT NO: **24194**
DRAWING NO: **E-7.1**

3/4" CONDUIT TO 4" ABOVE LAY-IN CEILING
(CONDUIT AND BACKBOX PROVIDED BY ELECTRICAL CONTRACTOR).



- (N-1) PROVIDE BLANK INSERT FOR NON-UTILIZED OPENINGS. REFER TO FLOOR PLANS FOR EXACT QUANTITY OF CABLES AND OUTLETS AT EACH LOCATION.
- (N-2) UTILIZE BLUE CABLES FOR DATA AND GREY CABLES ANALOG.
- (N-3) CONFIRM OUTLET COLOUR AND ORIENTATION WITH CONSULTANT PRIOR TO ORDERING MATERIALS.
- (N-4) CONFIRM LABELING SCHEME WITH CONSULTANT PRIOR TO PREPARING LABELS.

1 TYPICAL WALL MOUNTED OFFICE GROUP OUTLET DETAIL
SCALE: NTS

PATCH CORD LENGTH (N-1)	1'	5'	7'	10'	15'
CAT6 COPPER PATCH CORDS ROOM 129 END (N-3)	20	0	0	0	0
CAT6 COPPER PATCH CORDS WORKSTATION END	0	0	0	20	0

PATCH CORD COLOUR CODING:
 INTERCONNECTION OF NETWORKING EQUIPMENT - RED
 TELEPHONE / VOIP - GREEN
 BAS / CHUBB SECURITY - ORANGE
 SECURITY CAMERAS - BLUE
 WIRELESS ANTENNA - WHITE
 ALL OTHER NETWORK REQUIREMENTS - YELLOW

- (N-1) SUPPLY AND INSTALL QUANTITY OF PATCH CORDS INDICATED IN SCHEDULE. CONFIRM EXACT LENGTH WITH CLIENT PRIOR TO ORDERING. AT EQUIPMENT RACK END AND EQUIPMENT CABINET END PATCH CORD LENGTHS SHALL BE SELECTED TO MINIMIZE SLACK.
- (N-2) AS PART OF THIS SCOPE OF WORK COMMUNICATIONS CONTRACTOR SHALL PATCH ALL OWNER SUPPLIED SERVERS, SWITCHES, NETWORK GEAR, GATEWAYS, ETC. PATCHING SCHEDULE TO BE PROVIDED BY OWNER DURING CONSTRUCTION.
- (N-3) IDENTIFY PATCH CORDS AT BOTH ENDS WITH MECHANICALLY PRINTED SELF-ADHESIVE LABELS.
- (N-4) PROVIDE AN ADDITIONAL FIVE (5) 1' RED PATCH CORDS TO BE HANDED OVER TO CLIENT AT END OF PROJECT.
- (N-5) PROVIDE AN ADDITIONAL TEN (10) 1' YELLOW PATCH CORDS TO BE HANDED OVER TO CLIENT AT END OF PROJECT.
- (N-6) PROVIDE AN ADDITIONAL TEN (10) 1' LILAC PATCH CORDS TO BE HANDED OVER TO CLIENT AT END OF PROJECT.
- (N-7) PROVIDE AN ADDITIONAL TEN (10) 10' LILAC PATCH CORDS TO BE HANDED OVER TO CLIENT AT END OF PROJECT.

2 PATCH CORD SCHEDULE
SCALE: NTS

1. SUBSTITUTES ARE NOT PERMITTED FOR ALL SPECIFIED PRODUCTS.
2. SHOP DRAWINGS ARE REQUIRED FOR ALL PRODUCTS SPECIFIED FOR THIS PROJECT INCLUDING BUT NOT LIMITED TO EQUIPMENT CABINET, PATCH PANELS, HORIZONTAL CABLES, BACKBONE CABLES, TERMINATION HARDWARE, LABELS AND FACEPLATES.
3. COMMUNICATIONS CONTRACTOR AND ALL SUBCONTRACTORS MUST READ AND COMPLY WITH COMMUNICATIONS SPECIFICATIONS (ISSUED AS A SEPARATE DOCUMENT).
4. INSTALLATION OF ALL DEVICES AND SERVICES MUST COMPLY WITH ALL LOCAL SEISMIC RESTRAINT REQUIREMENTS.
5. ALL SCOPES OF WORK REQUIRED TO BE COMPLETED WITHIN OCCUPIED AREAS, INCLUDING WORK RELATED TO DEFICIENCIES MUST BE COMPLETED BETWEEN 4PM AND 11PM DURING THE WEEK. REMOVAL AND REINSTALLATION OF CEILING TILES IN THE OCCUPIED AREAS TO ACCOMMODATE ALL SCOPES OF WORK SHALL BE PROVIDED BY THE COMMUNICATIONS CONTRACTOR.
6. AS BUILT DRAWING REQUIREMENTS:
 - AS BUILT DRAWINGS TO BE PREPARED AND SUBMITTED IN AUTOCAD FORMAT BY THE COMMUNICATIONS CONTRACTOR.
 - ALL DEMOLITION SCOPES OF WORK ARE TO BE ERASED FROM AS BUILT DRAWINGS.
 - ROUTING OF MAIN STATION CABLING RUNS, BACKBONE CABLES, ETC. TO BE SHOWN ON AS BUILT DRAWINGS. REFER TO DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

CABLING COLOUR CODING FOR VARIOUS SYSTEMS IS AS FOLLOWS:
 BLUE - SECURITY CAMERA CCTV/COMMUNICATIONS DATA
 GREY - COMMUNICATIONS VOICE (ANALOG)
 YELLOW - MISCELLANEOUS NETWORK SYSTEMS
 ORANGE - BAS AND ACCESS CONTROL
 WHITE - WIRELESS ANTENNA

LEGEND

- (A) WALL MOUNTED OFFICE GROUP CONSISTING OF DATA (1ST) OUTLET C/W ONE (1) 4 PAIR CAT6 UTP CABLE.
- (B) WALL MOUNTED OFFICE GROUP CONSISTING OF DATA (1ST) AND ANALOG (1ST) OUTLETS C/W TWO (2) 4 PAIR CAT5E UTP CABLES.
- (C) CEILING MOUNTED WAP GROUP CONSISTING OF DATA (1ST) AND DATA (2ND) OUTLETS C/W TWO (2) 4 PAIR CAT5E UTP CABLES. PROVIDE TWO (2) RJ45 TO CEILING CONNECTOR.
- (D) DATA OUTLET C/W ONE (1) 4 PAIR CAT6 UTP CABLE
- (E) ANALOG OUTLET C/W ONE (1) 4 PAIR CAT6 UTP CABLE
- E DENOTES EXISTING DEVICE TO REMAIN
- ER DENOTES EXISTING DEVICE TO BE REMOVED BACK TO SOURCE
- R DENOTES RELOCATED OFFICE GROUP. DISCONNECT EXISTING OUTLETS AND PULL CABLES OUT FROM EXISTING DEVICE TO CEILING SPACE. REFEED NEW DEVICE INDICATED. PROVIDE NEW OUTLETS AND FACEPLATES. TERMINATE, LABEL AND TEST ALL CABLES.

DRAWING LIST

C-1.1	- COMMUNICATIONS LEGEND AND DETAILS
C-2.0	- COMMUNICATIONS FACILITY PLAN
C-2.1	- COMMUNICATIONS PLAN
C-4.1	- COMMUNICATIONS DEMOLITION PLAN

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Bicsi
 Network Technology Systems Design
 Howard Cohen
 BICSID # 07487
 EXPIRES 12-31-26
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 NTS

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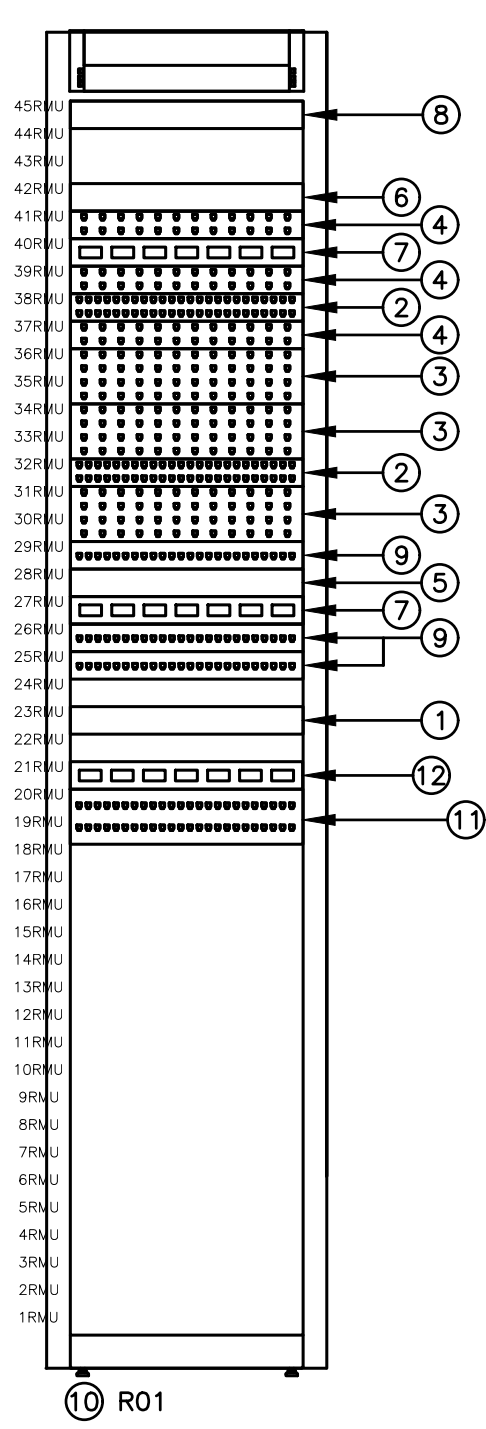
PROJECT:
**RENOVATIONS AT
 ECOLE ELEMENTAIRE
 FELIX-LECLERC**
 50 CELESTINE DRIVE
 TORONTO, ON
 HCC Project Number# 24273

DRAWING:
**COMMUNICATIONS
 LEGEND AND DETAILS**

**BARRY BRYAN
 ASSOCIATES**
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 Engineers
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PROJECT NO:
24194
 DRAWING NO:
C-1.1



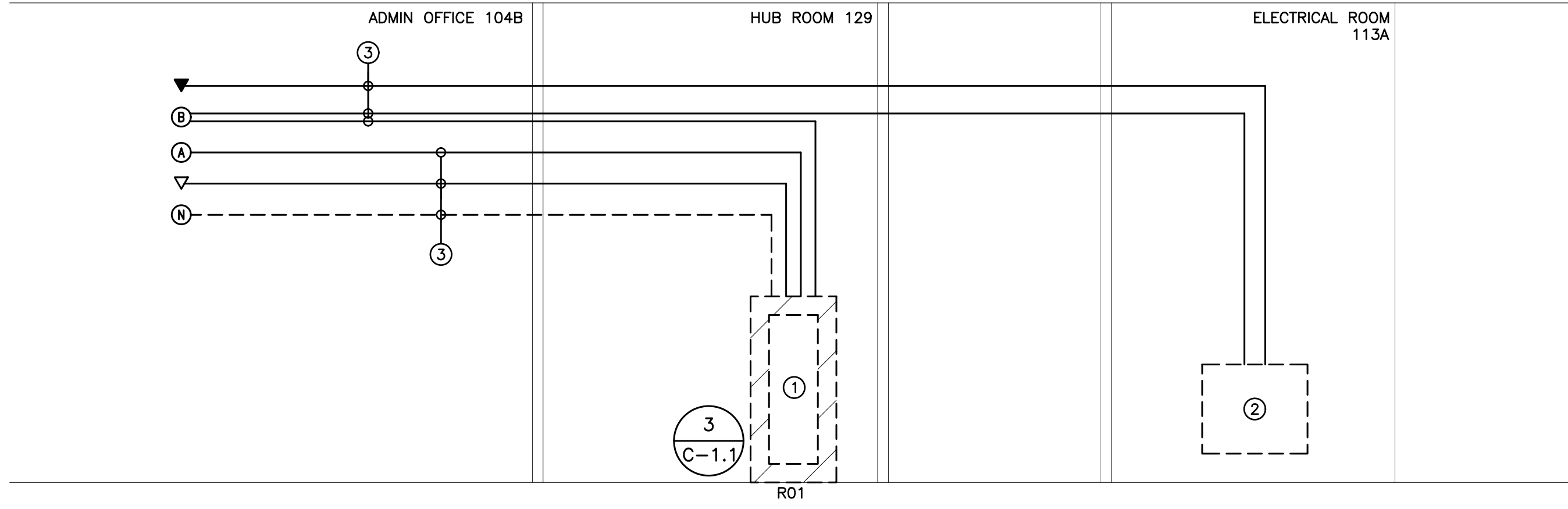
PATCH PANEL OUTLET COLOUR CODING:
 INTERCONNECTION OF NETWORKING EQUIPMENT - RED
 TELEPHONE / VOIP - GREEN
 BAS / CHUBB SECURITY - ORANGE
 SECURITY CAMERAS - BLUE
 WIRELESS ANTENNA - WHITE
 ALL OTHER NETWORK REQUIREMENTS - YELLOW

CONFIRM PLACEMENT OF EQUIPMENT WITH OWNER PRIOR TO RACKING PATCH PANELS, ACTIVE SWITCHES, ETC.

- (N-1) DETAIL IS DIAGRAMMATIC ONLY. PROVIDE QUANTITY OF HORIZONTAL CABLING, PATCH CORDS, ETC. TO ENSURE A FULLY OPERATIONAL PREMISES WIRING SYSTEM.
- (N-2) REFER TO FLOOR PLAN DRAWINGS FOR DEVICE QUANTITY AND LOCATIONS.
- (N-3) NOT USED.
- (N-4) ROUTE DATA HORIZONTAL (FLOOR) CABLES AND INTERLINK CABLES TO RESPECTIVE RACK MOUNTED PATCH PANELS.
- (N-5) BASE BID PRICE SHALL INCLUDE FOR A TOTAL OF 20 PATCHES AT THE RACK. REFER TO DETAIL NO. 2 ON DRAWING NO. C-1.1 FOR PATCH CORD QUANTITY AND LENGTHS.
- (N-6) AS PART OF THIS SCOPE OF WORK COMMUNICATIONS CONTRACTOR SHALL RACK MOUNT ALL OWNER PROVIDED SWITCHES, SERVERS, ETC. PROVIDE REQUIRED MOUNTING SCREWS.

- ① EXISTING 1RMU PDU - RF MOTE RFM SERIES
- ② EXISTING 1RMU 48 PORT ACTIVE SWITCH - ARUBA 2540 JL357A
- ③ EXISTING 1RMU 48 PORT CAT 5E PATCH PANEL
- ④ EXISTING 1RMU 24 PORT CAT 5E PATCH PANEL
- ⑤ EXISTING 1RMU NETWORK SERVICE PLATFORM - JUNIPER NFX250
- ⑥ EXISTING 1RMU HPE MSR3012 ROUTER JG409B - HP
- ⑦ EXISTING 1RMU 24 PORT ACTIVE SWITCH - ARUBA 2540 JL356A
- ⑧ EXISTING 1RMU FIBRE PATCH PANEL
- ⑨ EXISTING 1RMU 24 PORT CAT 5E PATCH PANEL - SYSTIMAX
- ⑩ EXISTING EQUIPMENT RACK - RF MOTE
- ⑪ 2RMU 48 PORT CAT6 PATCH PANEL PROVIDED AS PART OF THIS SCOPE OF WORK
- ⑫ 1RMU NETWORK SWITCH SUPPLIED BY CLIENT AND INSTALLED BY COMMUNICATIONS CONTRACTOR

3 EXISTING EQUIPMENT RACK R01 ELEVATION - ROOM 129
SCALE: NTS



- (N-1) RISER IS DIAGRAMMATIC ONLY.
- (N-2) NOT USED.
- (N-3) PROVIDE PUNCH DOWN BLOCK ASSEMBLY CONSISTING OF BELDEN QMBIX12E MOUNT AND QCBIX1A CONNECTORS. PROVIDE QUANTITY OF CONNECTORS REQUIRED TO TERMINATE ALL CABLES PROVIDED AS PART OF THIS SCOPE OF WORK.
- (N-4) NOT USED.
- (N-5) REFER TO COMMUNICATIONS PLANS FOR LOCATION OF CABINETS.
- (N-6) PROVIDE DEDICATED FLOOR AND WALL PENETRATIONS FOR ENTIRE ROUTING OF FIBER OPTIC CABLES, VOICE RISER CABLES, VOICE HOUSE CABLES AND DATA INTERLINK CABLES. EXACT LOCATION OF ALL CORE DRILLS TO BE DETERMINED BY X-RAY RESULTS. X-RAYS MUST BE REVIEWED AND APPROVED BY LANDLORD PRIOR TO CORE DRILLING.
- (N-7) SUPPORT CABLES TIGHT TO WALLS/CEILING SLAB UTILIZING CABLE TIE MOUNTS AND VELCRO TIE WRAPS.

- ① EXISTING NETWORK EQUIPMENT RACK
 - ② EXISTING VOICE MDF PLYWOOD BACKBOARD
 - ③ TYPICAL 4 PAIR CAT 6 UTP DATA CABLES PROVIDED AS PART OF THIS SCOPE OF WORK
- DENOTES NEW PROVIDED BY COMMUNICATIONS CONTRACTOR
 - - - - - DENOTES EXISTING TO REMAIN
 * - * - * - * DENOTES EXISTING TO BE REMOVED BY COMMUNICATIONS CONTRACTOR

4 COMMUNICATIONS RISER DIAGRAM
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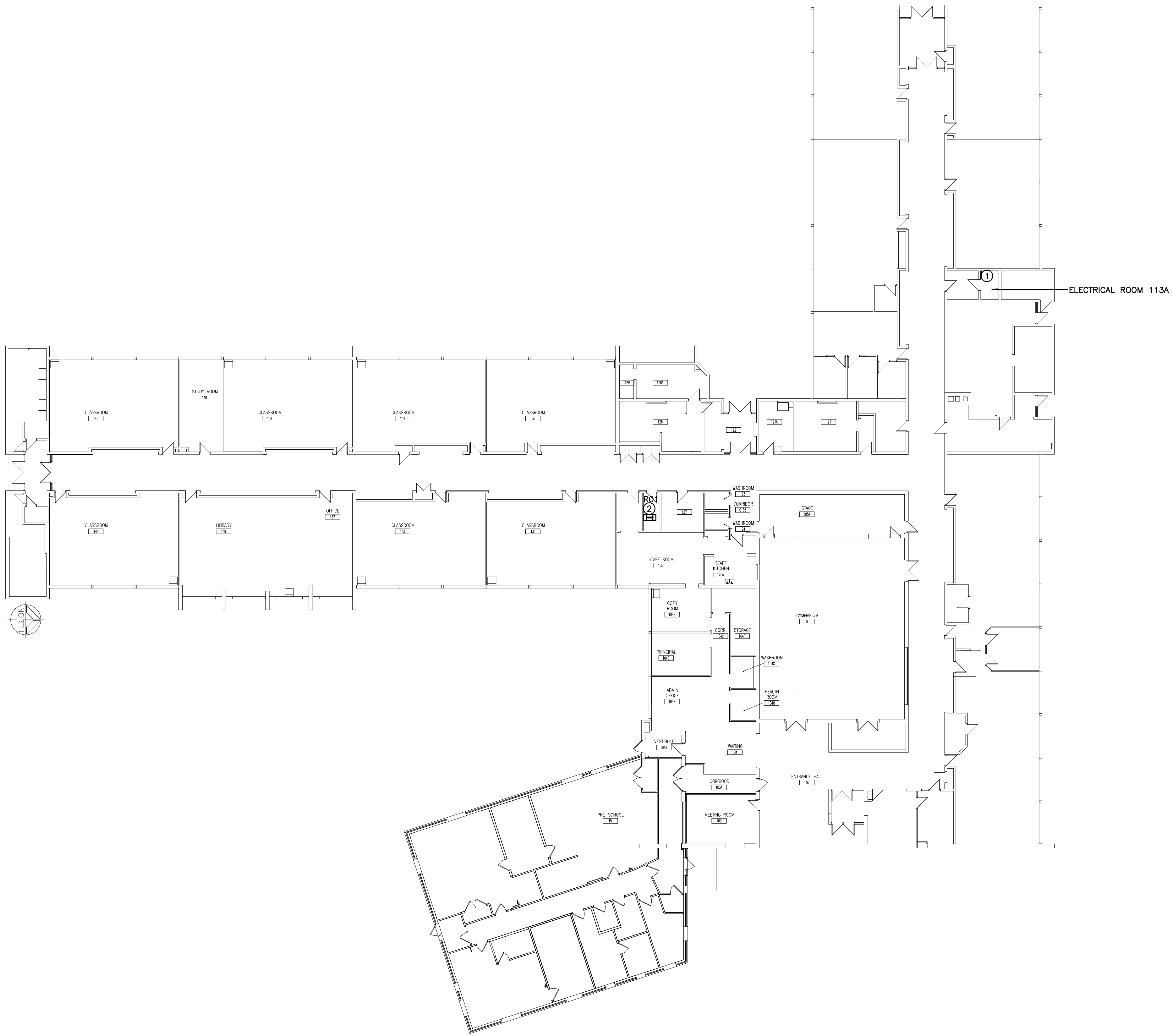
DRAWING:
**COMMUNICATIONS
FACILITY PLAN**

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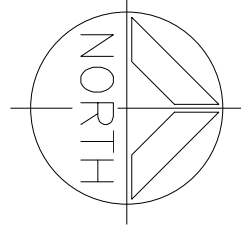
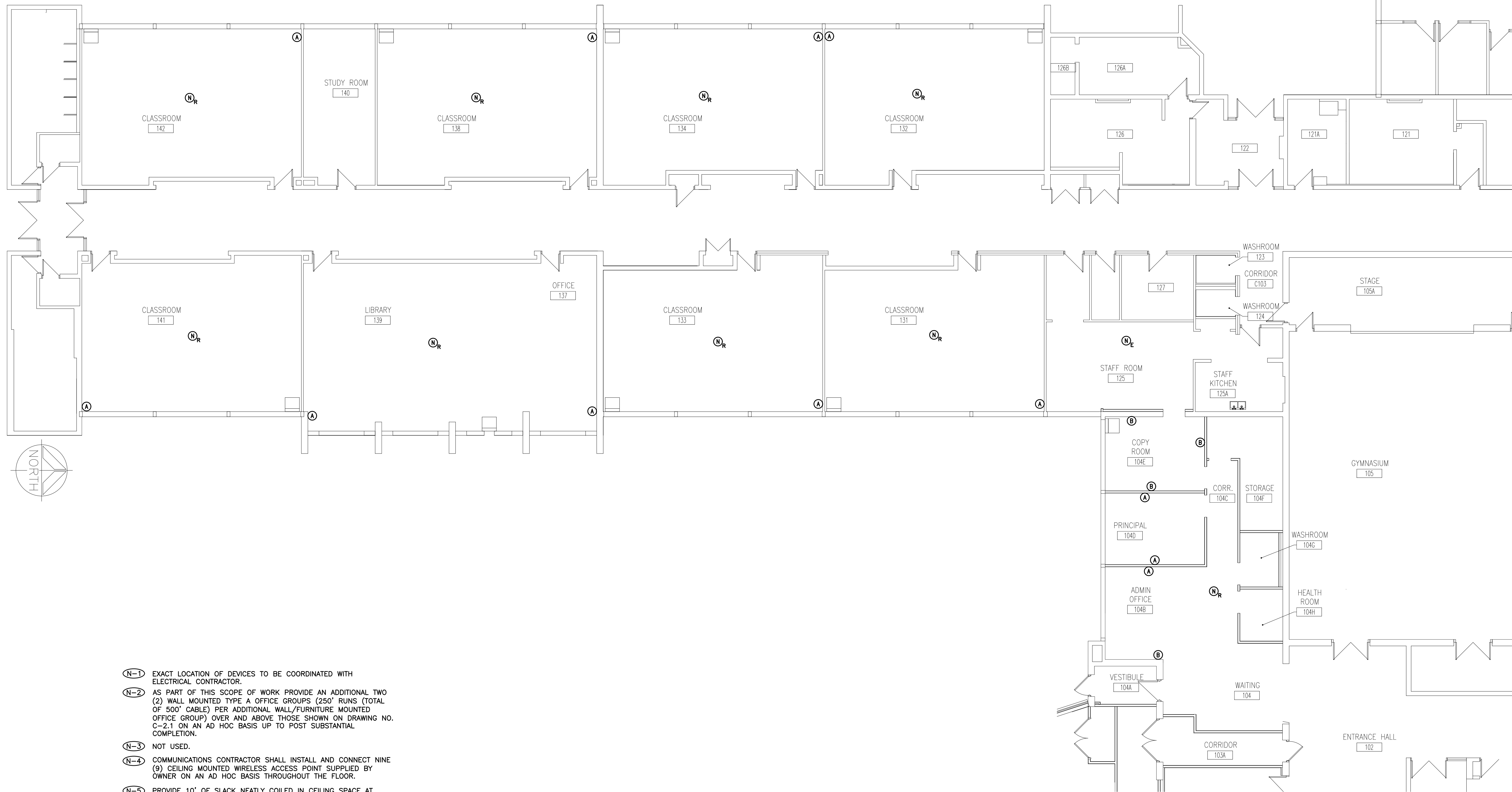
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DRAWING NO:
C-2.0



(N-1) EXACT LOCATION OF DEVICES TO BE COORDINATED WITH ELECTRICAL CONTRACTOR.

- ① EXISTING VOICE MDF BACKBOARD
- ② EXISTING NETWORK EQUIPMENT RACK



- (N-1) EXACT LOCATION OF DEVICES TO BE COORDINATED WITH ELECTRICAL CONTRACTOR.
- (N-2) AS PART OF THIS SCOPE OF WORK PROVIDE AN ADDITIONAL TWO (2) WALL MOUNTED TYPE A OFFICE GROUPS (250' RUNS (TOTAL OF 500' CABLE) PER ADDITIONAL WALL/FURNITURE MOUNTED OFFICE GROUP) OVER AND ABOVE THOSE SHOWN ON DRAWING NO. C-2.1 ON AN AD HOC BASIS UP TO POST SUBSTANTIAL COMPLETION.
- (N-3) NOT USED.
- (N-4) COMMUNICATIONS CONTRACTOR SHALL INSTALL AND CONNECT NINE (9) CEILING MOUNTED WIRELESS ACCESS POINT SUPPLIED BY OWNER ON AN AD HOC BASIS THROUGHOUT THE FLOOR.
- (N-5) PROVIDE 10' OF SLACK NEATLY COILED IN CEILING SPACE AT OUTLET END FOR EACH HORIZONTAL (STATION) CABLE PROVIDED AS PART OF THIS SCOPE OF WORK.

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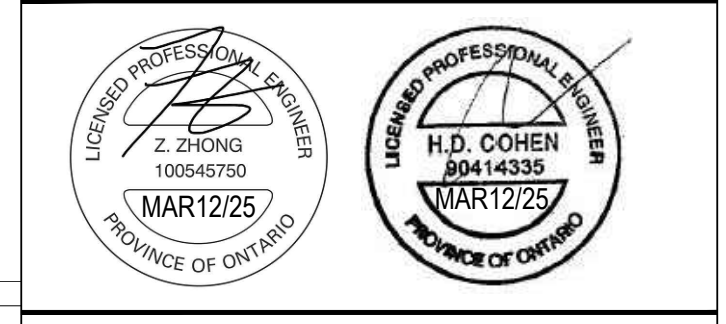


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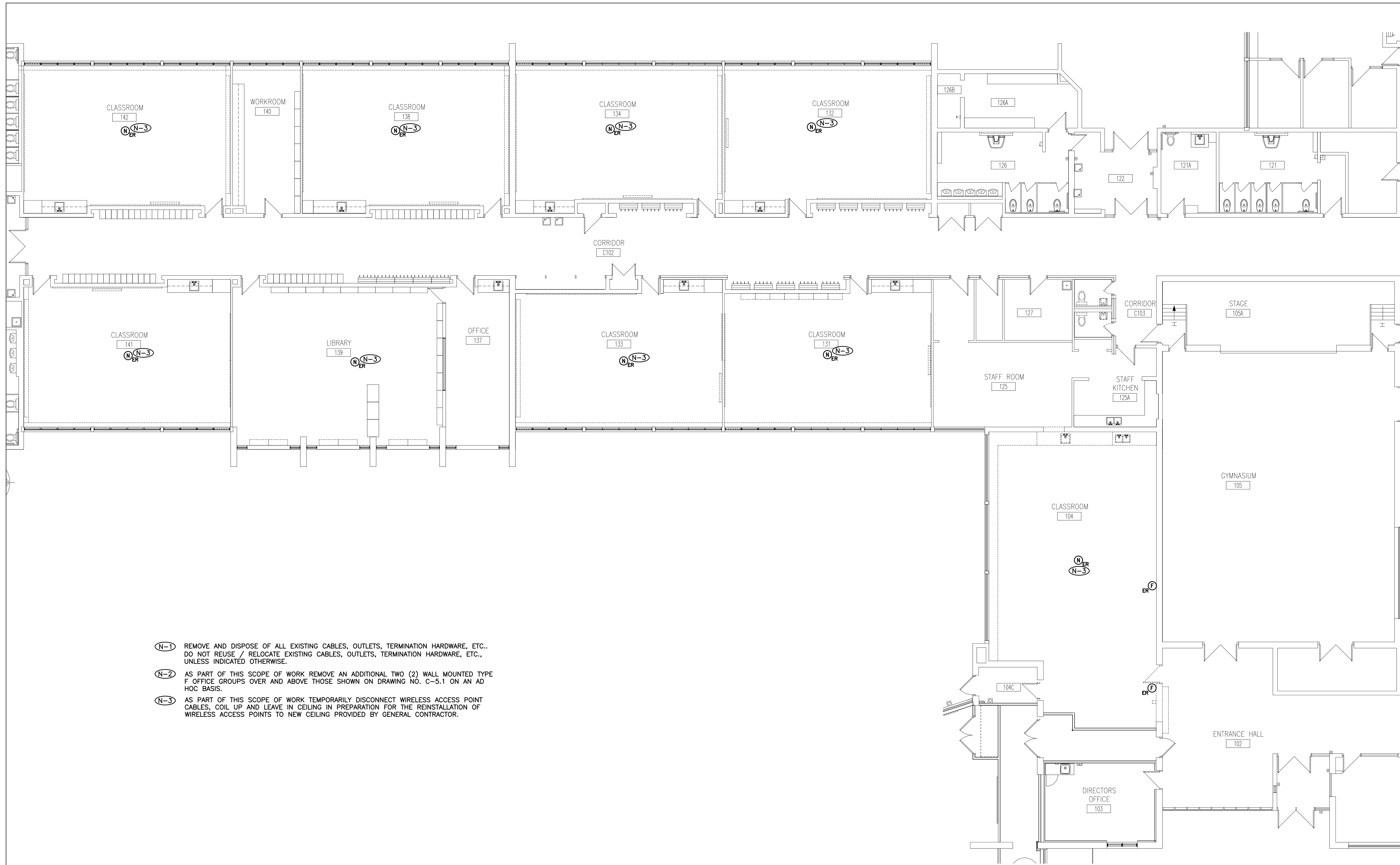
PROJECT:
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50 CELESTINE DRIVE
TORONTO, ON
HCC Project Number # 24273

DRAWING:
COMMUNICATIONS PLAN

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PROJECT NO: **24194**
DRAWING NO: **C-2.1**



- (N-1) REMOVE AND DISPOSE OF ALL EXISTING CABLES, OUTLETS, TERMINATION HARDWARE, ETC.. DO NOT REUSE / RELOCATE EXISTING CABLES, OUTLETS, TERMINATION HARDWARE, ETC., UNLESS INDICATED OTHERWISE.
- (N-2) AS PART OF THIS SCOPE OF WORK REMOVE AN ADDITIONAL TWO (2) WALL MOUNTED TYPE F OFFICE GROUPS OVER AND ABOVE THOSE SHOWN ON DRAWING NO. C-5.1 ON AN AD HOC BASIS.
- (N-3) AS PART OF THIS SCOPE OF WORK TEMPORARILY DISCONNECT WIRELESS ACCESS POINT CABLES, COIL UP AND LEAVE IN CEILING IN PREPARATION FOR THE REINSTALLATION OF WIRELESS ACCESS POINTS TO NEW CEILING PROVIDED BY GENERAL CONTRACTOR.

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DRAWING:
**COMMUNICATIONS
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