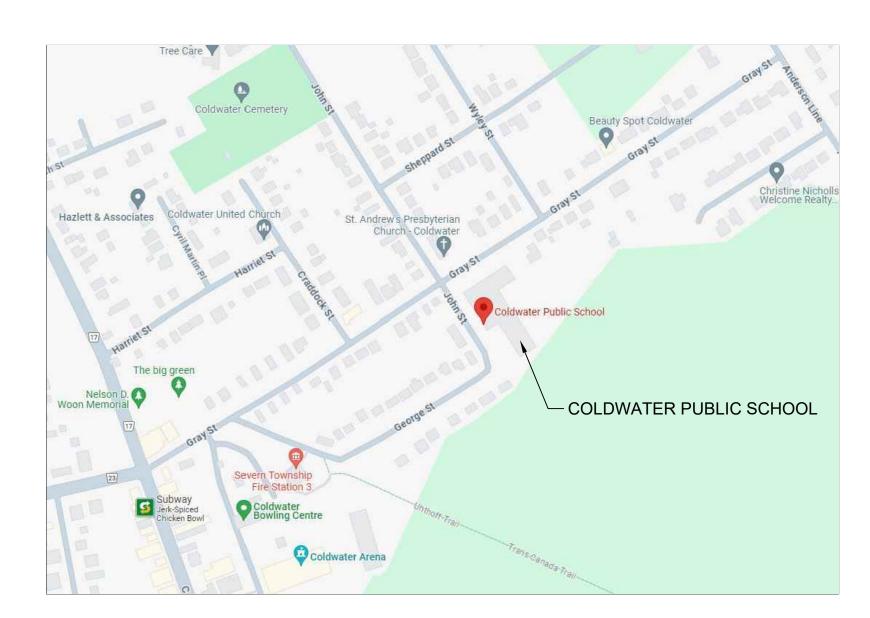
SIMCOE COUNTY DISTRICT SCHOOL BOARD COLDWATER PUBLIC SCHOOL INTERIOR RENOVATIONS

3 John St. West Coldwater, ON



LOCATION MAP

LIST OF DRAWINGS

OBC MATRIX AND LIST OF DRAWINGS

ARCHITECTURAL

OVERALL AND ENLARGED GROUND FLOOR PLAN ENLARGED GROUND FLOOR DEMO PLAN ENLARGED GROUND FLOOR PLAN ENLARGED GROUND FLOOR DEMO RCP PLAN **INTERIOR ELEVATIONS INTERIOR ELEVATIONS INTERIOR ELEVATIONS INTERIOR ELEVATIONS**

MECHANICAL

KEY PLAN, SCHEDULES & LEGEND

MILLWORK SECTIONS **ROOM FINISH SCHEDULE**

ENLARGED GROUND FLOOR PART PLAN MECHANICAL DEMO ENLARGED GROUND FLOOR PART PLAN MECHANICAL RENO MECHANICAL SPECIFICATION

ELECTRICAL

KEY PLAN, LEGEND, SCHEDULES AND DETAILS

PARTIAL GROUND FLOOR - LIGHTING DEMOLITION PLAN

PARTIAL GROUND FLOOR - POWER AND SYSTEMS DEMOLITION PLAN PARTIAL GROUND FLOOR - LIGHTING RENOVATION PLAN PARTIAL GROUND FLOOR - POWER AND SYSTEMS RENOVATION PLAN

CONSULTANTS

ARCHITECTURAL/STRUCTURAL:

BARRY BRYAN ASSOCIATES Architects Engineers **Project Managers**

MECHANICAL & ELECTRICAL:

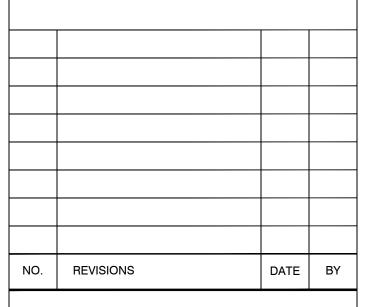


	OF PROJECT :		
	WATER PUBLIC SCHOOL I	NTERIOR RENOVATIONS	
3 ЈОН	N St. WEST, WATER, ON		
JAN. 2			
		Ontario Building Code Data Matrix Part 11 - Renovation of Existing Building	OBC Reference
11.00	Building Code Versio		
11.01	Project Type:	☐ Addition ☐ Renovation ☐ Addition and Renovation ☐ Change of use Description ☐	[A] 1.1.2.
11.02	Major Occupancy Classification:	Occupancy Use Group A, Div. 2 School	3.1.2.1.(1)
11.03	Superimposed Major Occupancies:	☐ Yes ☑ No Description	3.2.2.7
11.04	Building Area (m²)	Description Existing New N/A Total 3131.7m²	[A] 1.4.1.2.
	EXISTING NO CHANGE	Total= 3131.7m ² N/A 3131.7m ²	
11.05	Building Height	1 (One) Storeys above grade — (m) Above grade O (zero) Storeys below grade	[A] 1.4.1.2 & 3.2.1.1
11.06	Number of streets/ fire fighter access:	1 street(s)	3.2.2.10 & 3.2.5
	Building Size: Existing Building Classification:	☐ Small ☐ Medium ☑ Large ☐ > Large Change in Major Occupancy: ☐ Yes ☑ Not Applicable (no change of major occupancy)	T.11.2.1.1.BN. 11.2.1 T11.2.1.1A T11.2.1.1B
		Construction Index:4 Hazard Index:6 Importance Category: □ Low □ Normal □ High □ Post-disaster	to N, 4.2.1(3) & 5.2.2.1.(2)
11.09	Renovation Type:	☐ Basic Renovation ☐ Extensive Renovation	11.3.3.1 & 11.3.3.
11.11	Occupant Load: EXISTING NO CHANGE Plumbing Fixture Requipments: EXISTING NO CHANGE	Ratio: Male/Female = 50:50 Except as noted otherwise Floor level/ Area Occupant OBC Fixtures Fixtures Load Reference Required Provided	3.7.4
11 12	Barrier-free Design:	Yes Explanation INTERIOR FINISH IMPROVEMENTS ONLY	11.3.3.2.(2)
11.12	barrier-iree Design.	✓ No	11.3.3.2.(2)
11.13	Reduction in Performance Level:	Structural By Increase in occupant load: By change of major occupancy: Plumbing Sewage - system: No ☐ Yes Yes Yes Yes No ☐ Yes Yes Yes Yes	11.4.2.1 11.4.2.2 11.4.2.3 11.4.2.4 11.4.2.5
11.14	Compensating Construction:	Structural ✓ No ✓ Yes By Increase in occupant load: ✓ No ✓ Yes By change of major occupancy: ✓ No ✓ Yes Plumbing ✓ No ✓ Yes Sewage - system: ✓ No ✓ Yes Extension of Combustible ✓ No ✓ Yes Construction: ✓ No ✓ 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 11.4.2.7
11.15	Compliance Alternatives Proposed:	☑ No ☐ Yes	11.5.1.
 11.16	Notes:	Project Description: Interior renovations to Classrooms, corridors and offices. AREA OF WORK/RENOVATION: 920.7m² BUILDING AREA: 3131.7m²	11.5.1

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PROJECT:

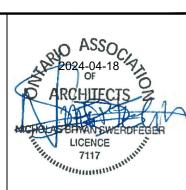
COLDWATER PUBLIC SCHOOL INTERIOR RENOVATIONS

3 JOHN ST. WEST, COLDWATER, ON SCDSB - COLDWATER PUBLIC SCHOOL

DRAWING:

OBC MATRIX AND LIST OF DRAWINGS





ASSOCIATES Engineers Project Managers Whitby, Ontario L1N 0G5 Fax: (905) 666-5256

JAN. 2024 AS NOTED e-mail: bba@bba-archeng.com

PROJECT NO: A000

24009



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PROJECT:

COLDWATER PUBLIC SCHOOL INTERIOR RENOVATIONS

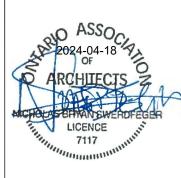
DATE BY

3 JOHN ST. WEST , COLDWATER, ON SCDSB - COLDWATER PUBLIC SCHOOL

DRAWING:

OVERALL AND ENLARGED GROUND FLOOR PLAN





BARRY BRYA ASSOCIATES
Architects Engineers Project Managers
250 Water Street Suite 201 Whithy Ontario

DESIGN BY: BBA Whitby, Ontario L1N 0G5 Tel: (905) 666-5252

DRAWN BY: CHECKED BY: DM DATE: JAN. 2024

24009 A201.dwg

DRAWING NO: **A201**

PROJECT NO: 24009

GENERAL DEMOLITION NOTES . SITE VERIFY ALL DIMENSIONS AND CONDITIONS. 2. ALL WORK TO BE IN ACCORDANCE WITH THE ONTARIO BUILDING CODE. COMPLY WITH THE OCCUPATIONAL HEALTH AND SAFETY ACT REGULATIONS FOR CONSTRUCTION PROVIDE PROTECTION IN LOCATIONS APPROVED BY THE OWNER AND CONSULTANT SO AS NOT TO DAMAGE EXISTING STRUCTURE, LANDSCAPE OR PART THEREOF. 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. PROVIDE ALL SHORING AS REQUIRED. SHORING SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER. 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. 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. 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. 10. 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. 1. DEMOLITION INCLUDES ALL ASSOCIATED MECHANICAL AND ELECTRICAL SERVICES, EQUIPMENT, FITTINGS, FIXTURES, HANGERS, BRACKETS, TRIM AND ACCESSORIES AS REQUIRED TO COMPLETE THE WORK. 12. MAINTAIN EXISTING FIRE HOSE CABINETS AND FIRE RATINGS. PAINT FIRE HOSE CABINETS. 13. REMOVAL OF DOORS AND FRAMES IS TO INCLUDE REMOVAL OF ALL HARDWARE. 14. REMOVE ALL PROTRUSIONS IN FLOOR SLAB AND GRIND DOWN TO FLOOR LEVEL.

- 16. DISCONNECT AND CAP OFF ALL SERVICES PRIOR TO DEMOLITION.
- 17. DISPOSE OF MATERIALS OFF SITE.
- 18. 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.
- 19. BUILDING TO BE SECURED BY THE G.C. AT ALL TIMES.
- 20. ALL WALLS TO BE REPAINTED (SEE ROOM FINISH SCHEDULE) MUST BE PREPARED, PRIMED AND REPAINTED TO THE MANUFACTURER'S WRITTEN INSTRUCTIONS.
- THE DEMOLITION NOTES ARE ONLY INDICATING GENERAL DEMOLITION EXTENTS AND REQUIREMENTS. THE DEMOLITION MUST BE COMPLETED WITHIN THE RENOVATION SPACES AS NECCESSARY TO COMPLETE THE OVERALL PROJECT.

DEMOLITION LEGEND

EXISTING WALL, PARTITION OR

— — — DENOTES DEMOLITION OF BUILDING ELEMENT

DENOTES NOT IN CONTRACT

DEMOLITION NOTES

- REMOVE AND DISPOSE OF EXISTING FLOORING AND WALL BASE. PREPARE EXISTING SURFACES TO RECEIVE NEW FLOORING AND BASE AS SCHEDULED.
- REMOVE AND DISPOSE OF EXISTING MILLWORK TEACHER'S CLOSET.
- CAREFULLY REMOVE EXISTING COAT HOOKS AND RACKS, AND RETURN THEM TO SCDSB FOR REUSE. PATCH, REPAIR AND MAKE GOOD ALL AFFECTED SURFACES TO SUIT NEW WORK AND RECEIVE NEW FINISHES.
- REMOVE AND DISPOSE OF EXISTING UPPER AND LOWER MILLWORK INCLUDING REMOVE AND DISPUSE OF EXISTING OFFER AND LOWER MILLERONN INCORP.

 SINK. REFER TO MECHANICAL DRAWINGS FOR DEMOLITION OF PLUMBING. PREPARE AREA TO RECEIVE NEW MILLWORK AND SINK. PATCH, REPAIR AND MAKE GOOD ALL AFFECTED SURFACES TO SUIT NEW WORK AND RECEIVE NEW FINISHES.

- REMOVE AND DISPOSE OF EXISTING FURRING INCLUDING TRIM. PATCH, REPAIR AND MAKE GOOD ALL AFFECTED SURFACES TO SUIT NEW WORK AND RECEIVE NEW FINISHES.
- REMOVE AND DISPOSE OF WALL MOUNTED BOARDS (BLACK BOARDS & TACK BOARDS), EXCEPT BOARDS DESIGNATED TO BE SALVAGED (WHITE BOARDS) ARE TO BE REMOVED CAREFULLY AND HANDED OVER TO OWNER. PATCH, REPAIR AND MAKE GOOD ALL AFFECTED SURFACES TO SUIT NEW WORK AND RECEIVE NEW FINISHES AS SCHEDULED.
- EXISTING CONTROL PANEL TO BE CAREFULLY REMOVED AND REINSTALLED (REFER TO ELECTRICAL).
- REMOVE AND DISPOSE OF EXISTING MILLWORK SHELVING / CUPBOARDS INCLUDING COUNTER TOP. PATCH, REPAIR AND MAKE GOOD ALL AFFECTED SURFACES TO SUIT NEW WORK AND RECEIVE NEW FINISHES.
- EXISTING MILLWORK SHELVING UNITS (TOTAL OF 5) TO BE CAREFULLY SALVAGED FOR RE-USE IN STORAGE ROOM 115.
- REMOVE AND DISPOSE OF EXISTING ENCLOSED CLOSET AREA INCLUDING CONCRETE BLOCK WALL AND DOORS. PATCH, REPAIR AND MAKE GOOD ALL AFFECTED
- SURFACES TO SUIT NEW WORK AND RECEIVE NEW FINISHES.

- REMOVE AND DISPOSE OF EXISTING FURRING, WALL TILE AND WOOD RAIL IN CORRIDOR (STRIP BACK TO BLOCK WALL). PATCH, REPAIR AND MAKE GOOD EXISTING CONCRETE
- REMOVE AND DISPOSE OF EXISTING FLOORING / WALL BASE AT RAMP. PREPARE EXISTING SURFACES TO RECEIVE NEW FLOORING AND BASE AS SCHEDULED.
- EXISTING DRINKING FOUNTAIN TO BE REMOVED AND REPLACED WITH WATER BOTTLE FILLING STATION.
- (15) REMOVE AND DISPOSE OF EXISTING AIR GRILLE. (REFER TO MECHANICAL).

BLOCK FACE (PARGE) TO RECEIVE NEW PAINT FINISH.

- CAREFULLY REMOVE EXISTING WINDOW SHADES FOR CONSTRUCTION AND REINSTALL AFTER
- CUT AND REMOVE EXISTING CONCRETE MASONRY BLOCK WALL TO INSTALL NEW BOTTLE FILL CARRIER AND PLUMBING, MAKE GOOD WALL AFTER INSTALL.

DO NOT SCALE THE DRAWINGS.

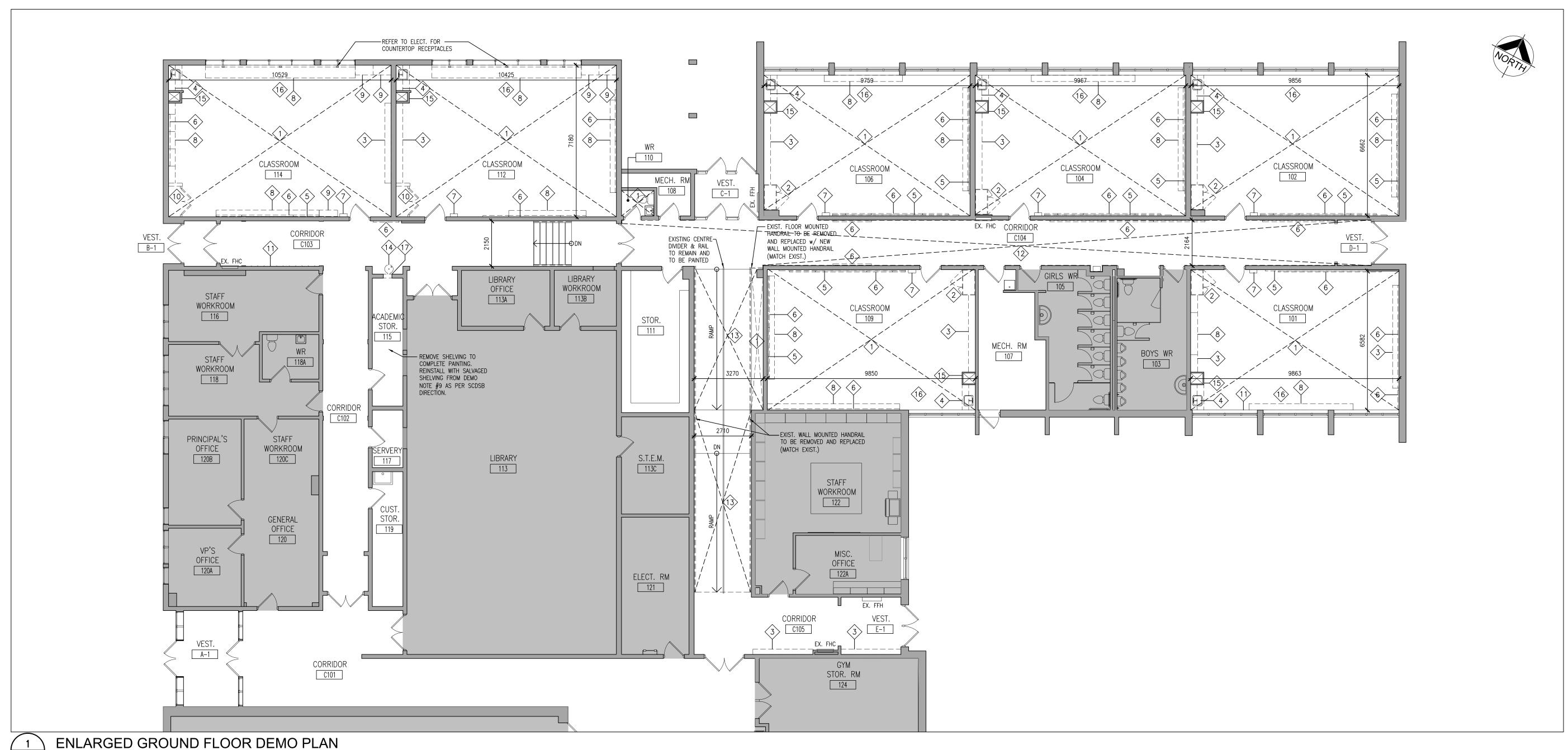
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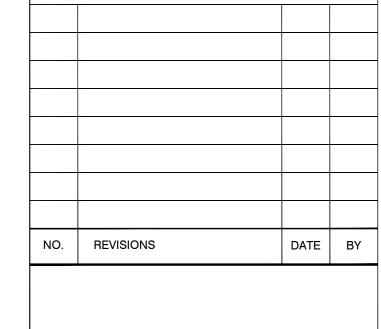
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	2024 EVIEW FEB. 2024 EPRIL & TENDER APR.



15. CLEAN, PATCH / REPAIR ALL EXISTING SURFACES TO REMAIN TO RECEIVE NEW FINISHES.

PREPARE EXISTING SUBSTRATES TO RECEIVE NEW PAINT 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



PROJECT:

COLDWATER PUBLIC SCHOOL INTERIOR RENOVATIONS

3 JOHN ST. WEST, COLDWATER, ON SCDSB - COLDWATER PUBLIC SCHOOL

DRAWING:

ENLARGED GROUND FLOOR DEMO PLAN





DDA	
BARRY BRYAN ASSOCIATES	DESIGN BBA
Architects Engineers	DRAWN DP
Project Managers 250 Water Street	CHECKE DM
Suite 201 Whitby, Ontario L1N 0G5	DATE: JAN. 20
Tel: (905) 666-5252 Fax: (905) 666-5256	SCALE: AS NO
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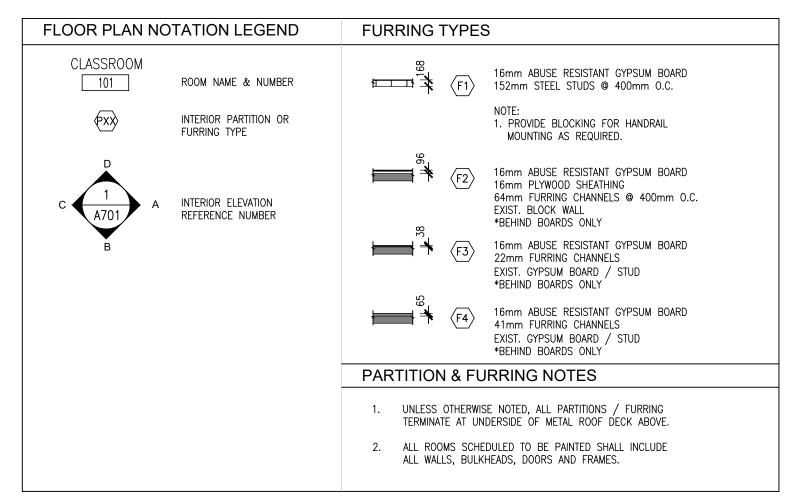
KED BY: e-mail: bba@bba-archeng.com

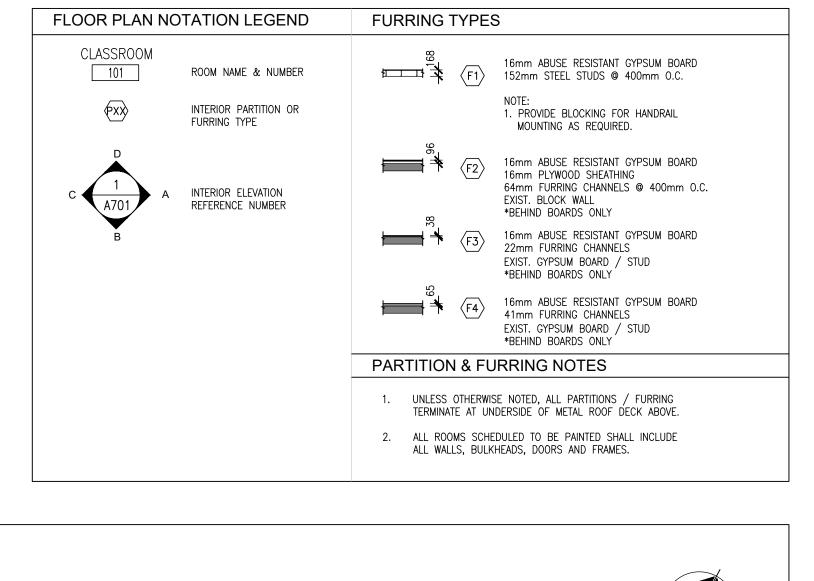
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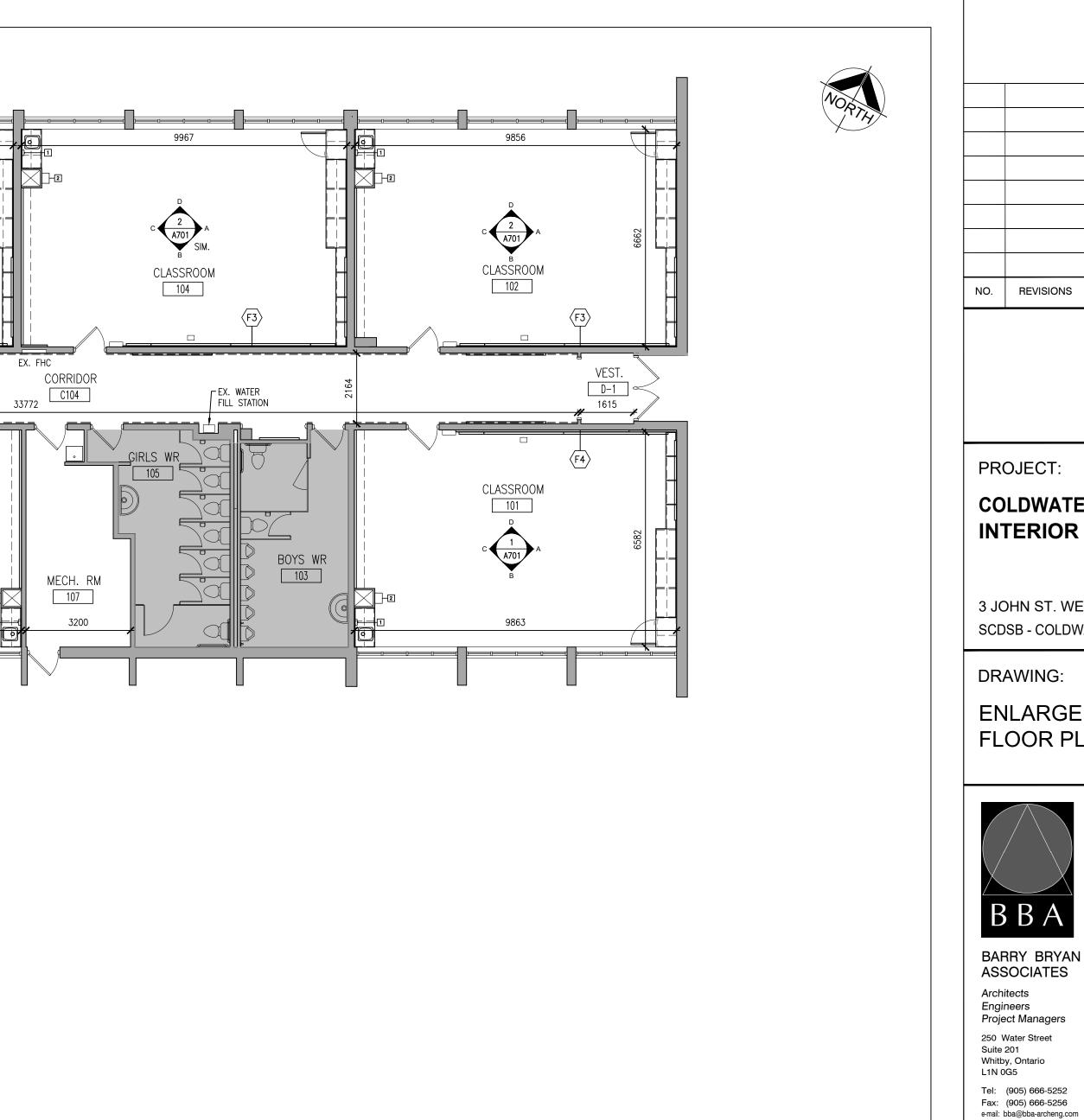
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PROJECT NO: 24009

A202







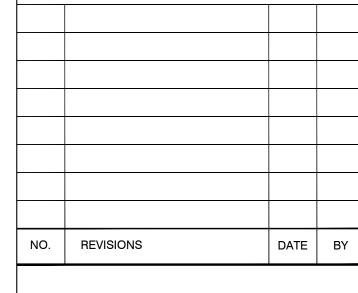
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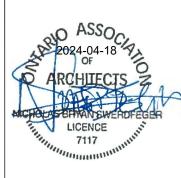
COLDWATER PUBLIC SCHOOL INTERIOR RENOVATIONS

3 JOHN ST. WEST , COLDWATER, ON SCDSB - COLDWATER PUBLIC SCHOOL

DRAWING:

ENLARGED GROUND FLOOR PLAN





		-	_
BARRY ASSOC			
Architects Engineers Project M	S	age	ers
250 Water Suite 201 Whitby, Or L1N 0G5			

1	DESIGN BY: BBA	DOC CONTROL DATE:
	DRAWN BY: DP	% COMPLETE:
	CHECKED BY: DM	INITIAL:
	DATE: JAN. 2024	
	SCALE: AS NOTED	
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DRAWING NO:

PROJECT NO: 24009 **A203**



VEST. «

10425

CLASSROOM

LIBRARY OFFICE 113A

LIBRARY 113

NEW WALL MOUNTED HANDRAILS ENTIRE LENGTH W/ PAINT FINISH (TYP.)

3274

NEW WALL MOUNTEDS
HANDRAILS ENTIRE
LENGTH w/ PAINT
FINISH (TYP.)

STOR. 111

3198

S.T.E.M. 1130

ELECT. RM

WORKROOM

113B

EXISTING CENTRE DIVIDER & RAIL TO REMAIN AND TO BE PAINTED

9759

CLASSROOM 109

STAFF WORKROOM

MISC. OFFICE 122A

GYM STOR. RM 124

C105

EX. FFH

VEST. E-1 2840

122

A703

10529

CORRIDOR C103

STAFF WORKROOM

120C

GENERAL OFFICE 120

STAFF WORKROOM

116

STAFF WORKROOM

PRINCIPAL'S OFFICE 120B

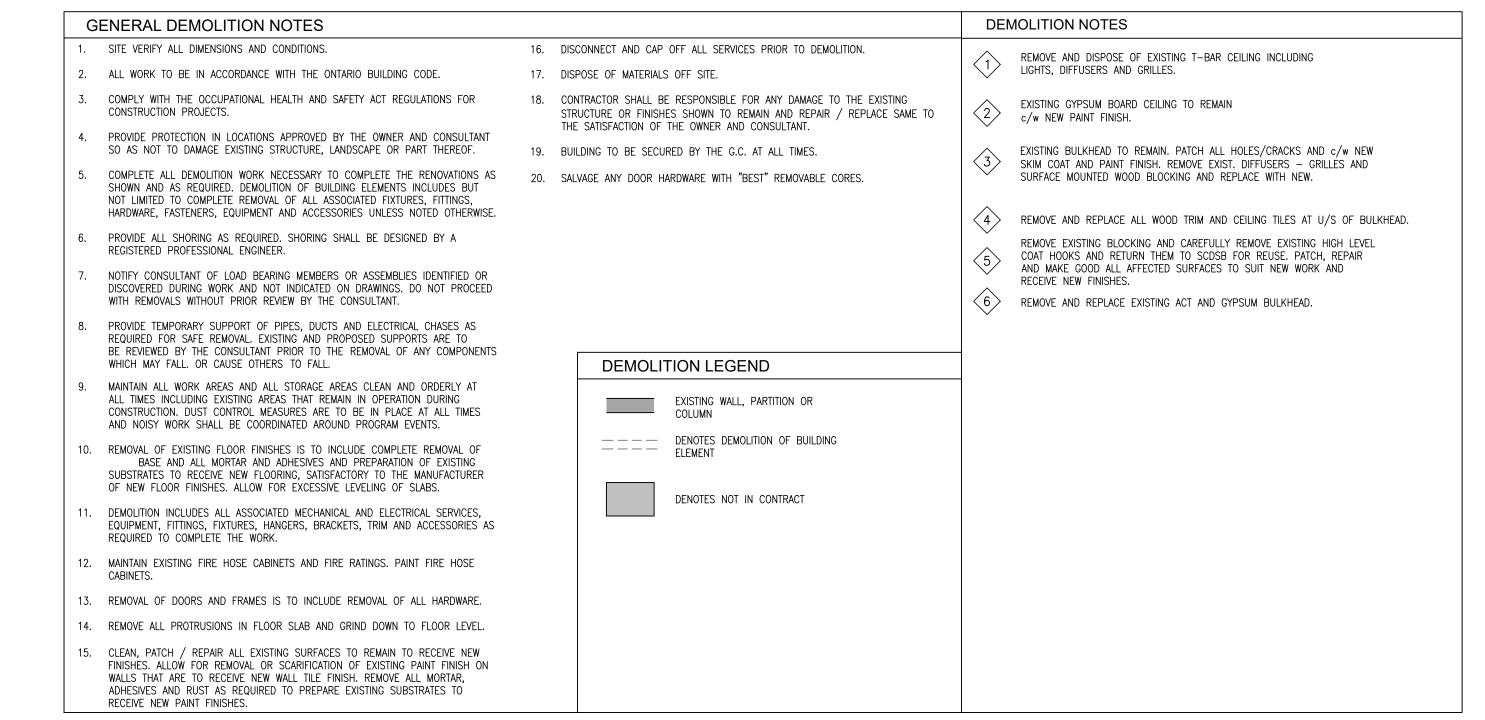
VP'S OFFICE 120A

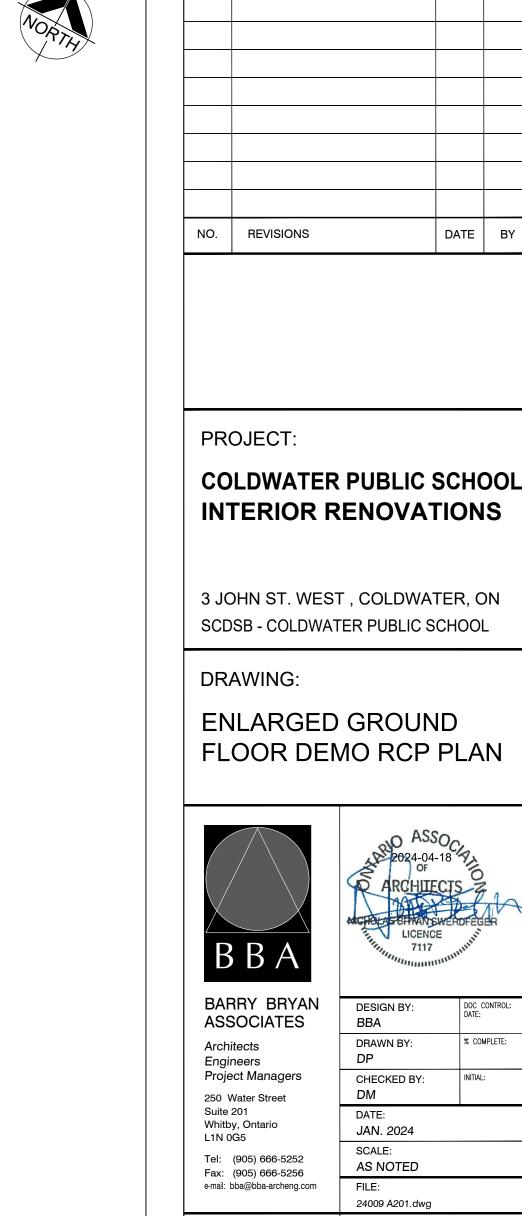
A-1

2 MASONRY INFILL— AT CUT OUT FOR CARRIER

CORRIDOR C101

ACADEMID -





NO. ISSUES

1 CLIENT REVIEW

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Simcoe County
District School Board

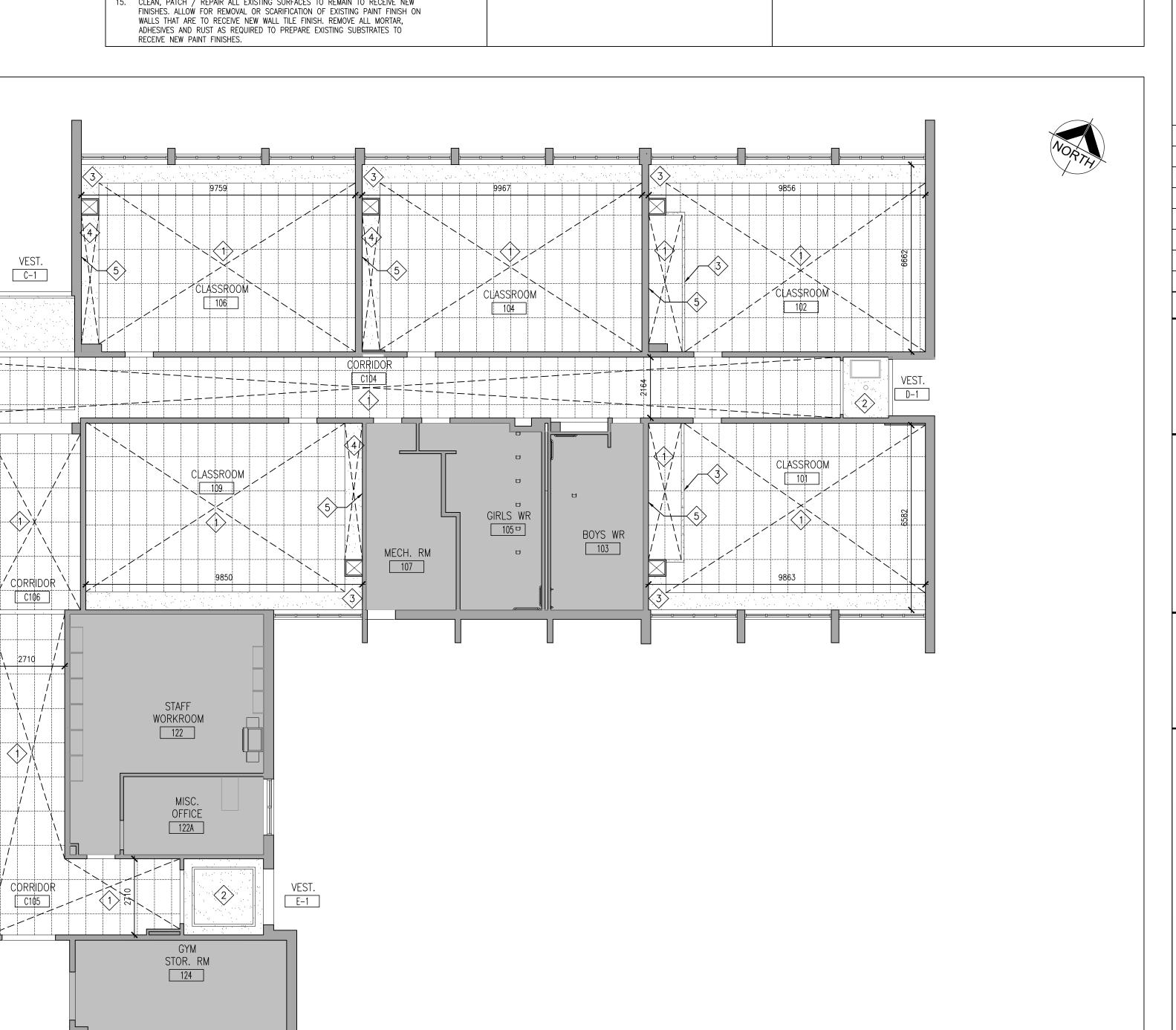
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2024

FEB. 27 BBA

APR. 18 2024 BBA

DATE BY



---10425----

CLASSROOM

LIBRARY OFFICE 113A

LIBRARY 113

LIBRARY WORKROOM

113B

S.T.E.M. 1130

ELECT. RM 121

ENLARGED GROUND FLOOR DEMO RCP PLAN <u>A204</u>

B-1

STAFF WORKROOM

116

STAFF WORKROOM

118

PRINCIPAL'S OFFICE 120B

VP'S OFFICE 120A

VEST.

10529

CLA\$SROOM

118A

STAFF WORKROOM

120C

GENERAL OFFICE 120

C1/02

CORRIDOR C101

PROJECT NO: 24009

DRAWING NO: **A204**

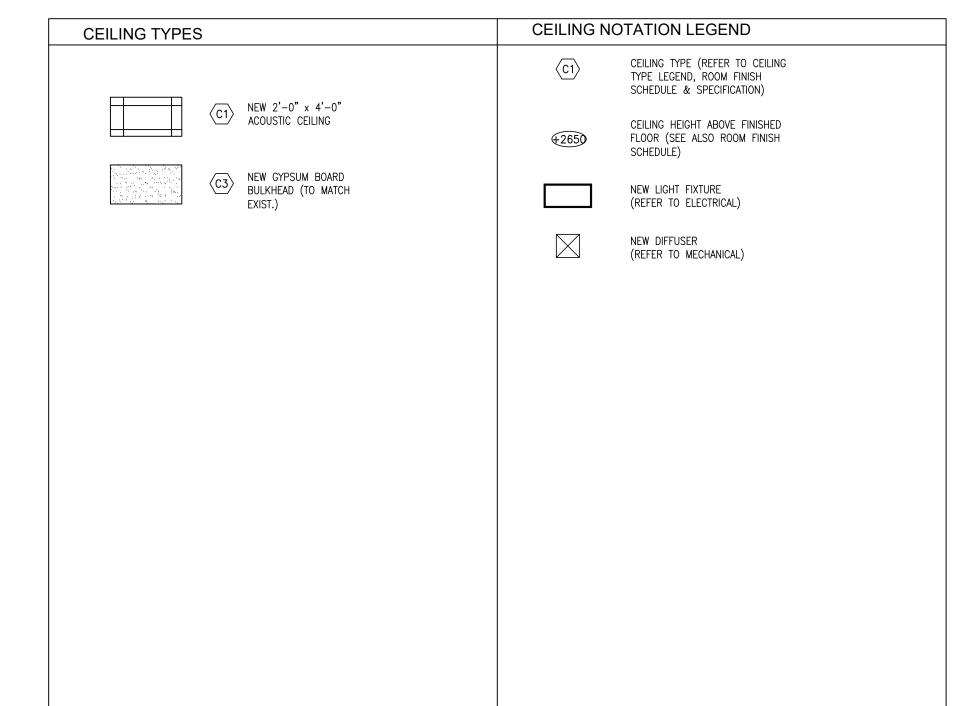
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JAN. 2024

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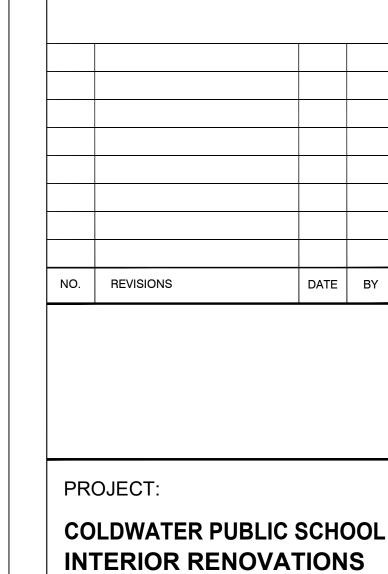
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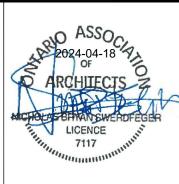


3 JOHN ST. WEST , COLDWATER, ON SCDSB - COLDWATER PUBLIC SCHOOL

DRAWING:

ENLARGED GROUND FLOOR RCP PLAN





BARRY BRYAN ASSOCIATES Architects Engineers Project Managers Suite 201

Whitby, Ontario L1N 0G5 Tel: (905) 666-5252 Fax: (905) 666-5256

e-mail: bba@bba-archeng.com

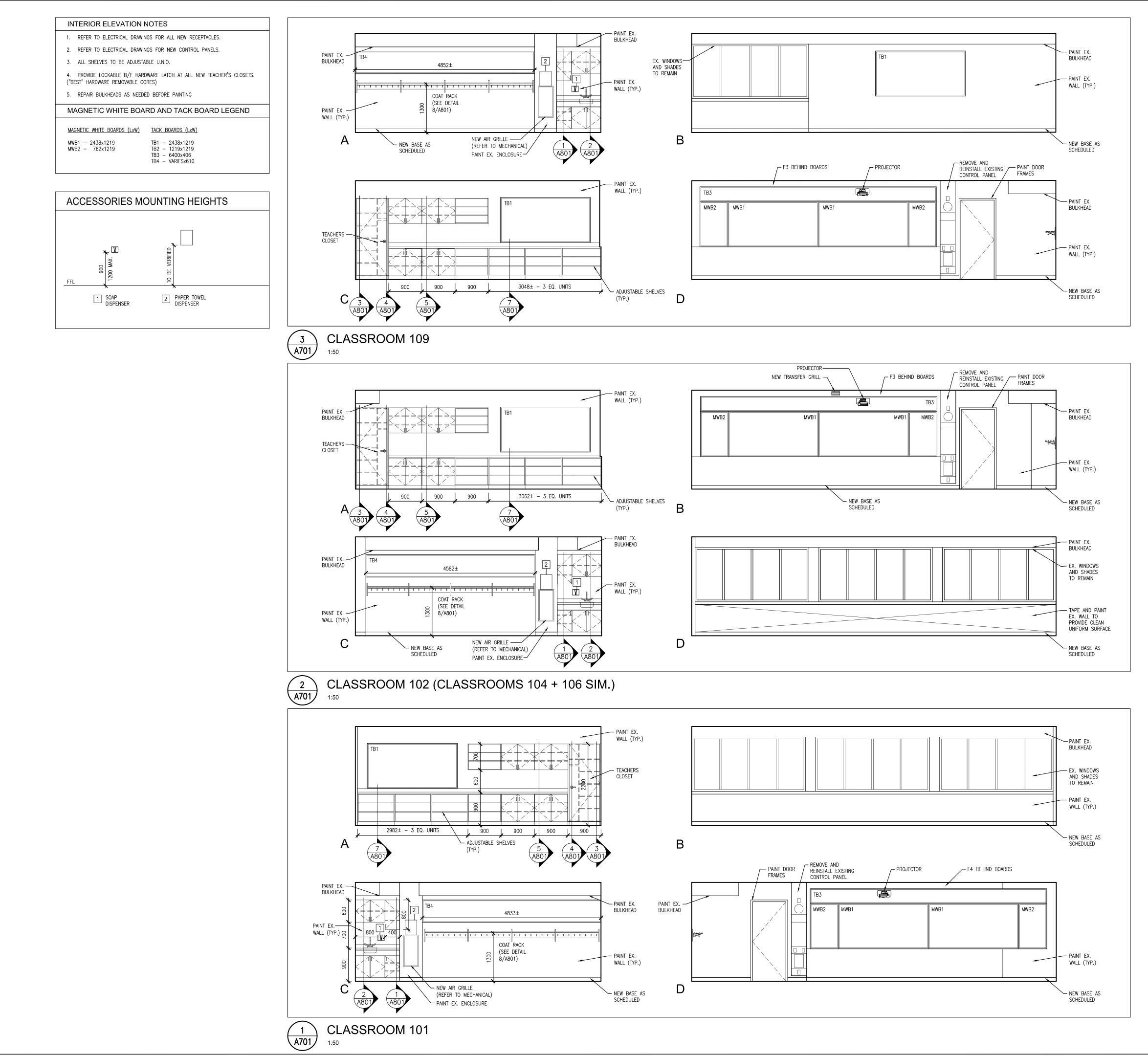
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PROJECT:

NO. REVISIONS

COLDWATER PUBLIC SCHOOL INTERIOR RENOVATIONS

DATE BY

3 JOHN ST. WEST , COLDWATER, ON SCDSB - COLDWATER PUBLIC SCHOOL

DRAWING:

INTERIOR ELEVATIONS



	ARCHITECTS ARCHIT	PA OFEIGHT
7	DESIGN BY: BBA	DOC CONTROL: DATE:

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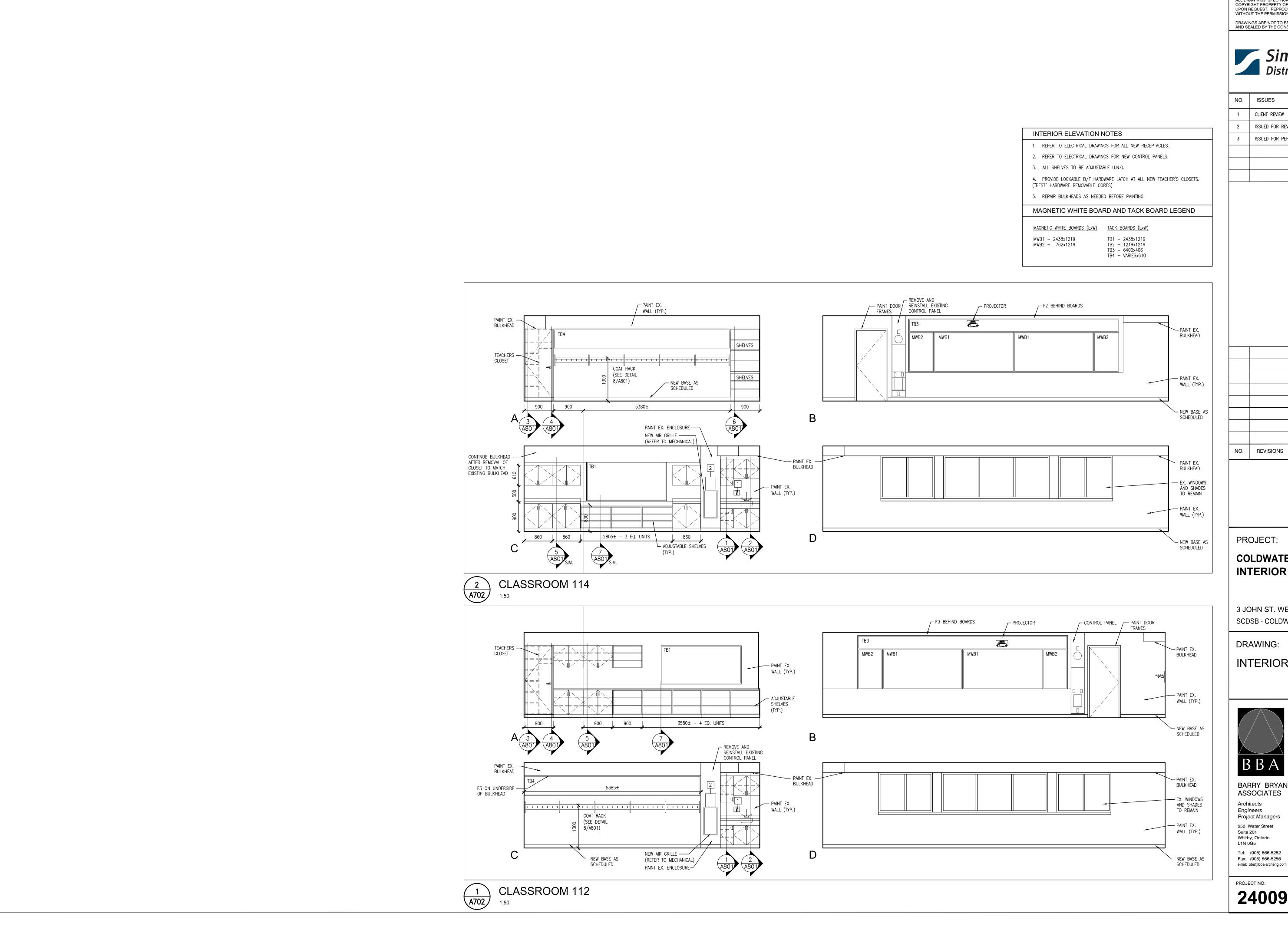
	RRY BRYAN SOCIATES
ngii	itects neers ect Managers
uite :	y, Ontario
	(905) 666-5252 (905) 666-5256

CHECKED BY: JAN. 2024 SCALE: AS NOTED 24009 A701.dwg

% COMPLETE:

DRAWING NO:

PROJECT NO: 24009 A701



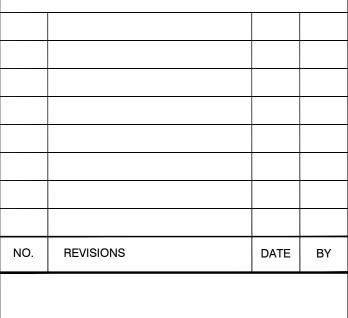
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PROJECT:

COLDWATER PUBLIC SCHOOL INTERIOR RENOVATIONS

3 JOHN ST. WEST , COLDWATER, ON SCDSB - COLDWATER PUBLIC SCHOOL

DRAWING:

INTERIOR ELEVATIONS





BARRY BRYAN ASSOCIATES
Architects Engineers Project Managers
250 Water Street Suite 201 Whitby, Ontario L1N 0G5
Tel: (905) 666-5252

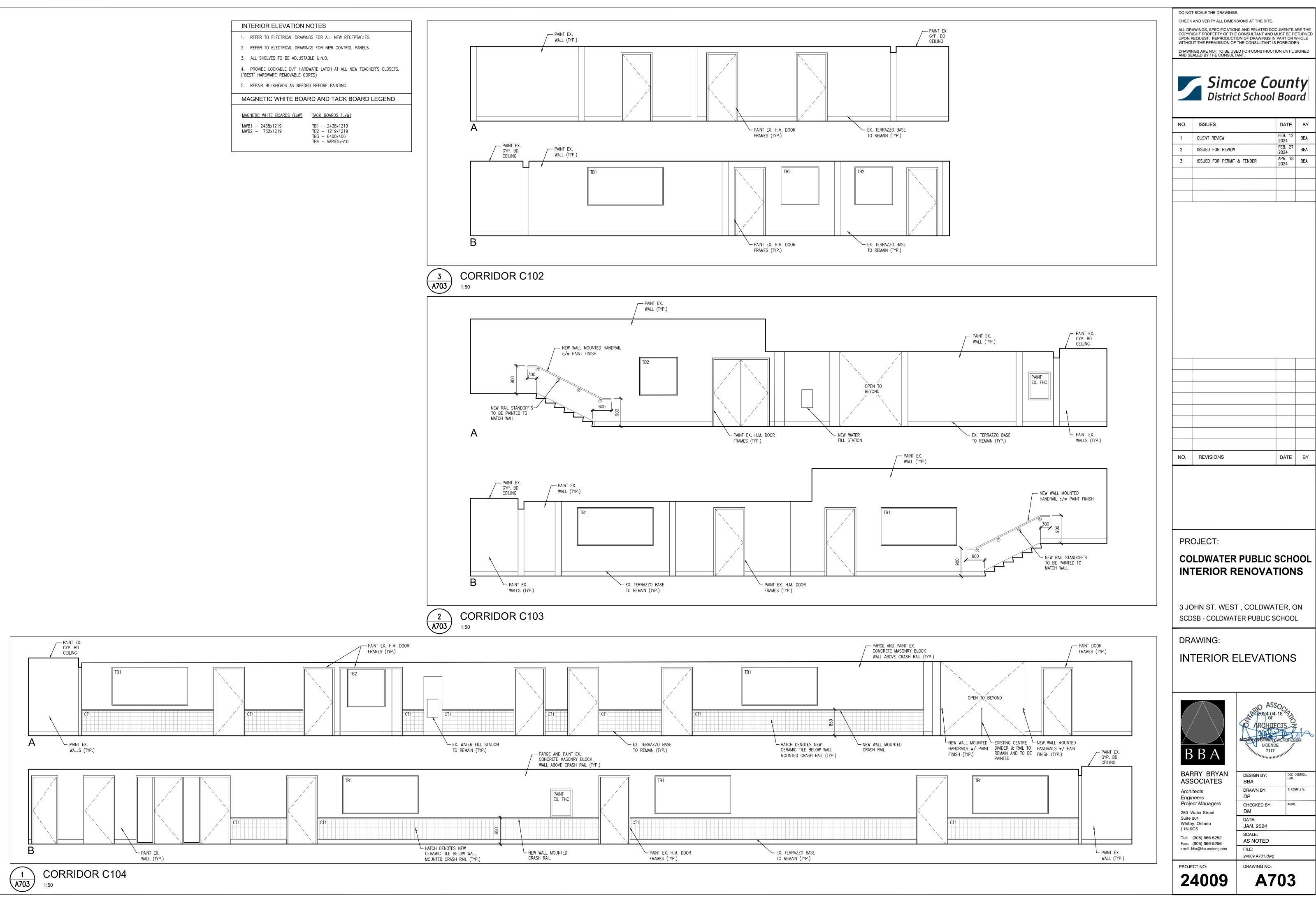
DESIGN BY: BBA DRAWN BY:

% COMPLETE: CHECKED BY: JAN. 2024 SCALE: AS NOTED

24009 A701.dwg

DRAWING NO:

24009 A702





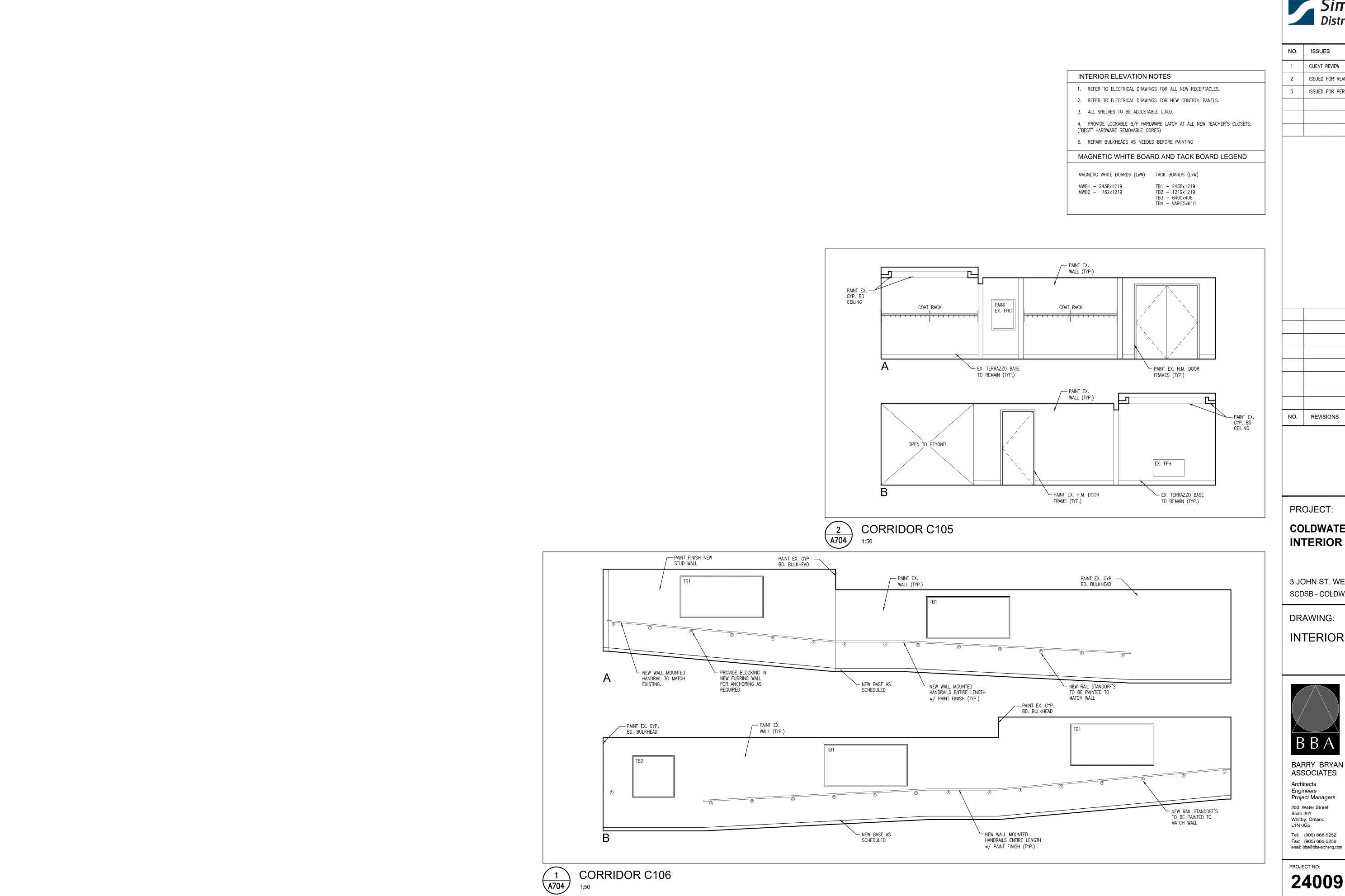
	NO.	ISSUES	DATE	BY
	1	CLIENT REVIEW	FEB. 12 2024	BBA
	2	ISSUED FOR REVIEW	FEB. 27 2024	BBA
	3	ISSUED FOR PERMIT & TENDER	APR. 18 2024	BBA

INTERIOR RENOVATIONS

SCDSB - COLDWATER PUBLIC SCHOOL

ARCHIECTS BHYANGWER LICENCE 7117	OFEGE
DESIGN BY: BBA	DOC CON DATE:
DRAWN BY:	% COMPL

A703



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PROJECT:

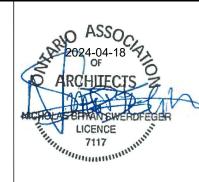
COLDWATER PUBLIC SCHOOL INTERIOR RENOVATIONS

3 JOHN ST. WEST , COLDWATER, ON SCDSB - COLDWATER PUBLIC SCHOOL

DRAWING:

INTERIOR ELEVATIONS





% COMPLETE:

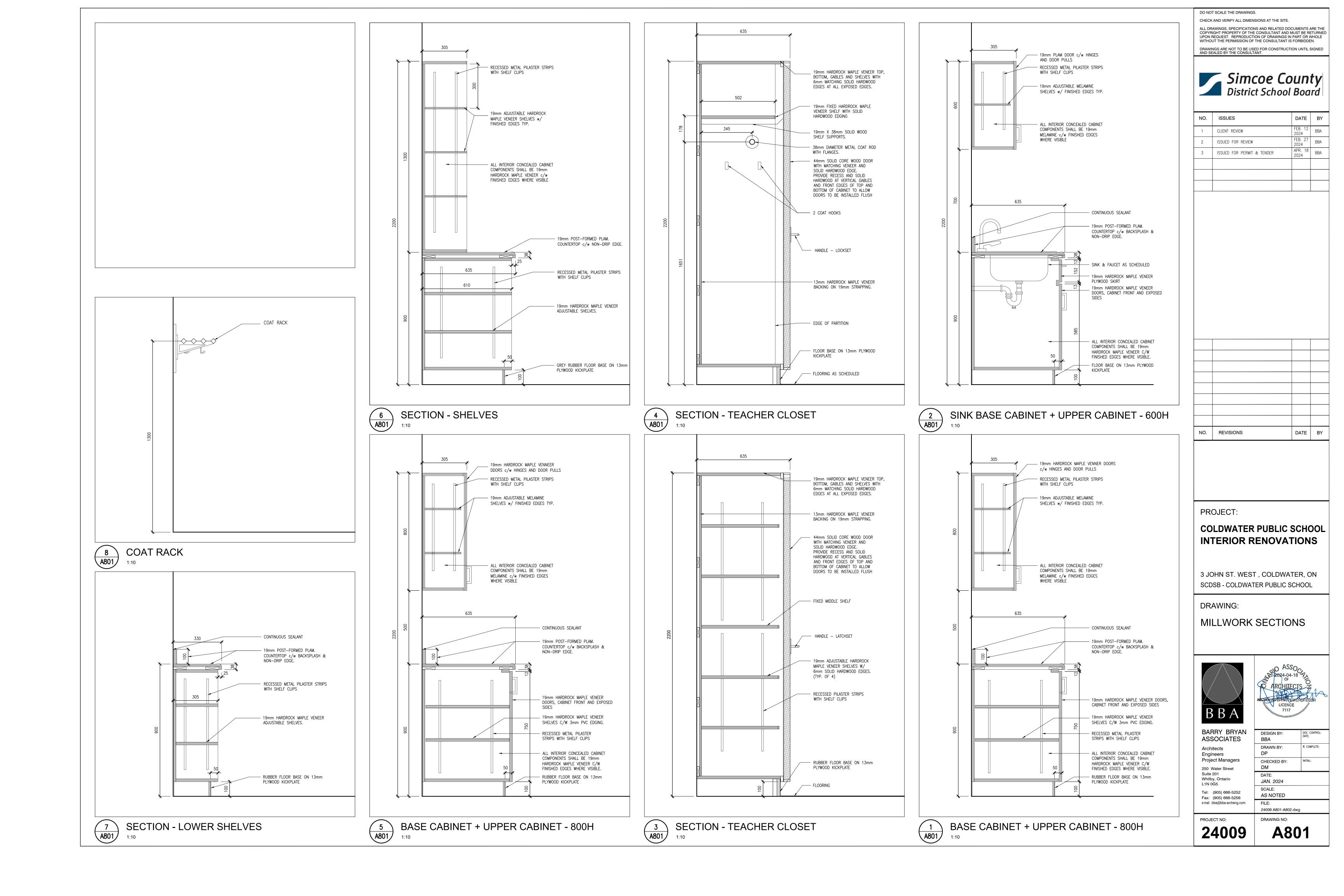
BARRY BRYAN ASSOCIATES
Architects Engineers Project Managers
250 Water Street Suite 201 Whitby, Ontario _1N 0G5
Tel: (905) 666-5252

DESIGN BY: BBA DRAWN BY: CHECKED BY: DATE: JAN. 2024 SCALE: AS NOTED

24009 A701.dwg

DRAWING NO: A704

24009



ROOM SCHEDULE									ROO	M SC	HEDULE
NO.	ROOM NAME		FLOOR	BASE	NORTH	WAL EAST	LS SOUTH	WEST	CEILING	CEILING HEIGHT	REMARKS
101	CLASSROOM	MAT. FIN.	EX. VCT	– RB	EX.	EX. P	EX. P	EX.	ACT. PREFIN.	2650 -	
		COL.	-	_	-	-	-	_	-	-	
102	CLASSROOM	MAT. FIN.	EX. VCT	- RB	EX.	EX. P	EX. P	EX. P	ACT. PREFIN.	2650	
102	CLASSITOOM	COL.	_	1	_		_	_	-	_	
	01.10000011	MAT.	EX.		EX.	EX.	EX.	EX.	ACT.	2650	
04	CLASSROOM	FIN. COL.	VCT _	RB –	P _	P _	P _	P _	PREFIN.	_	
		MAT.	EX.	-	EX.	EX.	EX.	EX.	ACT.	2650	
06	CLASSROOM	FIN.	EX.	RB	Р	Р	Р	Р	PREFIN.	_	
		COL. MAT.	EX.	-	EX.	EX.	EX.	EX.	EX.	3200	
07	MECH. RM	FIN.	EX.	EX.	Р	Р	Р	Р	Р	-	
		COL. MAT.	EX.	_	EX.	EX.	EX.	EX.	<u>–</u> ЕХ.	3200	
108	MECH. RM	FIN.	EX.	EX.	Р.	Р	Р.	Р.	P P	J200 -	
		COL.	_	1	-	_	-	_	-	_	
109	CLASSROOM	MAT. FIN.	EX. VCT	- RB	EX.	EX.	EX.	EX.	ACT. PREFIN.	2650	
109	CLASSROOM	COL.	-	-	_	_	_	_	-	_	
		MAT.	EX.	-	EX.	EX.	EX.	EX.	EX.	2850	
110	WASHROOM	FIN. COL.	PCT2	PCT2	P _	P _	P _	P _	PREFIN.	_	
		MAT.	EX.		EX.	EX.	EX.	EX.	EX.	2650	
111	STORAGE	FIN.	EX.	EX.	Р	Р	Р	Р	Р	-	
		COL. MAT.	EX.	-	EX.	EX.	EX.	EX.	ACT.	2650	
112	CLASSROOM	FIN.	VCT	RB	Р	Р	Р	Р	PREFIN.	_	
		COL.		_		EX.	- -	EX.	ACT.	2650	PROVIDE NEW PLYWOOD FURRING ON SOUTH WALL OF CLASSROOM IN AND AROUND COLUMN BUMP OUTS FOR FLUSH INSTALLATIO
114	CLASSROOM	MAT. FIN.	EX. VCT	- RB	EX.	Р.	EX. P	Р.	PREFIN.	_	NEW WALL MOUNTED BOARDS. SITE VERIFY BUMP OUT THICKNESS.
		COL.	_	-	-	_	-	-	_	_	
115	ACADEMIC	MAT. FIN.	EX.	EX.	EX.	EX.	EX.	EX.	EX. _	3040	
113	STORAGE	COL.	-	_	-		-	_	_	_	
	055) (55) (MAT.	EX.	-	EX.	EX.	EX.	EX.	EX.	3040	
117	SERVERY	FIN. COL.	EX.	EX.	P _	P _	P _	P _		_	
	CUSTODIAL	MAT.	EX.	-	EX.	EX.	EX.	EX.	EX.	3040	
119	STORAGE	FIN. COL.	EX.	EX.	P –	P _	P _	P _		-	
		MAT.	EX.	-	EX.	EX.	EX.	EX.	ACT.	2420	
C101	CORRIDOR	FIN.	EX.	EX.	Р	Р	Р	Р	PREFIN.	_	
		COL.	EX.	_	EX.	EX.	EX.	EX.	ACT.	2420	
2102	CORRIDOR	FIN.	EX.	EX.	P	P	P	P	PREFIN.	-	
		COL.	_ 	_			- -	- -		-	
2103	CORRIDOR	MAT. FIN.	EX.	EX.	EX.	EX. P	EX. P	EX.	ACT. PREFIN.	VARIES –	
		COL.	-	-	-	_	-	_	-	_	
104	CORRIDOR	MAT. FIN.	EX.	EX.	EX. PRG/P(HIGH)F	EX. PRG/P(HIGH)	EX. PRG/P(HIGH)	EX. PRG/P(HIGH)	ACT. PREFIN.	2400	SEE ALSO INTERIOR ELEVATIONS. EXISTING MASONRY TO BE PARGED WITH SKIM COAT AND PAINTED EXCEPT BELOW CRASH RAIL WHERE TILE FINISH IS REQUIRED.
710+	CONNIDON	COL.	_	_		CT1(LOW)	CT1(LOW)	CT1(LOW)	-	_	
2405	0000000	MAT.	EX.	- -	EX.	EX. P	EX.	EX.	ACT. PREFIN.	2400	SEE ALSO INTERIOR ELEVATIONS.
,105	CORRIDOR	FIN. COL.	EX.	EX. -	P -	<u> </u>	- -	- -	- PREFIN.	-	
		MAT.	EX.	-	EX.	EX.	EX.	EX.	ACT.	VARIES	NEW FLOORING AND WALL BASE AT RAMP AREA.
2106	CORRIDOR	FIN. COL.	PCT1	PCT1	P _	P _	P _	P _	PREFIN.	_	
		MAT.	EX.		EX.	EX.	EX.	EX.	ACT.	2420	
2108	CORRIDOR	FIN.	EX.	EX.	Р	Р	Р	Р	PREFIN.	_	
		COL. MAT.	EX.	_	EX.	EX.	EX.	EX.	EX.	2500	
A-1	VESTIBULE	FIN.	EX.	EX.	Р	Р	Р	Р	Р	-	
		COL. MAT.	EX.	_	EX.	EX.	– EX.	– EX.	 EX.	2500	
B-1	VESTIBULE	FIN.	EX.	EX.	P	P	P	P	P	-	
		COL.	_ _	-	_ 	_ 	_ 	- EV	_ 	2300	NEW PAINT FINISH TO EXISTING RECESSED FORCE FLOW HEATER TO MATCH WALL.
C-1	VESTIBULE	MAT. FIN.	EX.	EX.	EX.	EX. P	EX. P	EX. P	EX.	2390	NEW FAINT FINISH TO LAISTING RECESSED FORCE FLOW HEATER TO MATCH WALL.
- I		COL.	_	_	_		_	-		-	
D1	VECTIDI II F	MAT. FIN.	EX.	<u>–</u> ЕХ.	EX.	EX.	EX. P	EX.	EX.	2525 _	_
ו – ט ––	VESTIBULE	COL.		– –	P -	<u> </u>	- -	- -	<u> </u>	_	
	VECTION	MAT.	EX.	_ 	EX.	EX.	EX.	EX.	EX.	2690	NEW PAINT FINISH TO EXISTING WALL MOUNTED FORCE FLOW HEATER TO MATCH WALL.
E-1	VESTIBULE	FIN.	EX.	EX.	Р	Р	Р	Р	Р	-	

. ALL MILLWORK TO BE FINISHED WITH RUBBER BASE TO MATCH BASE FINISH ON ADJACENT WALLS.
. PAINT ALL EXISTING METAL DOOR FRAMES IN AREAS OF WORK.
. PROVIDE NEW FLOOR TRANSITIONS BETWEEN DIFFERENT FLOORING FINISHES AS REQUIRED.
. ALL WALLS w/ NEW PAINT FINISH TO BE PAINTED FULL HEIGHT TO U/S BULKHEADS — CEILINGS U.N.O.

ABBREV	/IATION LEGEND
CONT.	CONTINUOUS
EX.	EXISTING
TYP.	TYPICAL
Р	PAINT
PRG	PARGE
GB	GYPSUM BOARD
ACT.	ACOUSTIC TILE
VCT	VINYL COMPOSITE TILE
RB	RUBBER BASEBOARD
CB	CONCRETE BLOCK
CT	CERAMIC TILE

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NO.	REVISIONS	DATE	BY

PROJECT:

COLDWATER PUBLIC SCHOOL INTERIOR RENOVATIONS

3 JOHN ST. WEST , COLDWATER, ON SCDSB - COLDWATER PUBLIC SCHOOL

DRAWING:

ROOM FINISH SCHEDULE





ARRY BRYAN SSOCIATES	
hitects gineers ject Managers	
Water Street e 201 tby, Ontario 0G5	
(905) 666-5252 : (905) 666-5256	

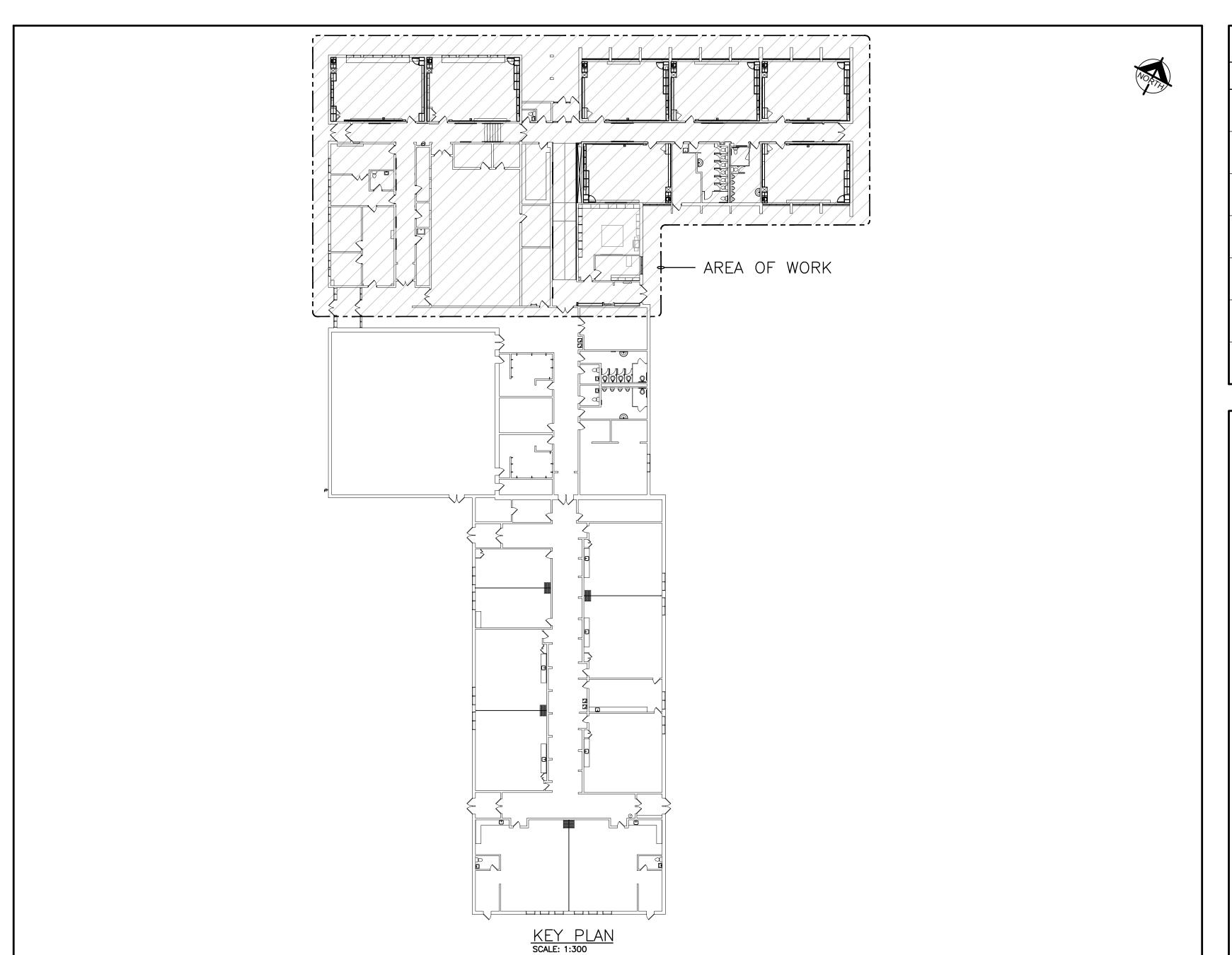
RYAN ES	DESIGN B'
	DRAWN BY
jers t	CHECKED DM
	DATE: JAN. 202
5252 5256	SCALE: AS NOTE

FILE: 24009 A201.dwg

DRAWING NO:

PROJECT NO: 24009

A901



Item	Туре	Equalizing Grid	Volume Damper	Acceptable Manufacturer	Description
D1	SQUARE CEILING DIFFUSER	YES	NONE	EH PRICE SCDA	MULTICONE, FULLY ADJUSTABLE, 24x24, STEEL CEILING DIFFUSER W/ROUND NECK. SUITABLE FOR LAY-IN T-BAR CEILING, OR DRYWALL CEILING WHEN C/W FRAME. PROVIDE FIRE STOP FLAP & FIRE BLANKET.
R1	CEILING RETURN GRILLE (DUCTED)	NO	NONE	EH PRICE 80-FA	1/2x1/2x1/2 ALUMINUM EGGCRATE CORE, C/W 1 1/4" FLAT BORDER & SCREWED FASTENING FOR SURFACE MOUNTING AND FIRE FLAP

GENERAL NOTES

- ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE PREPARED SPECIFICATION.
- UPON COMPLETION OF THE PROJECT OR UPON COMPLETION OF EACH INDIVIDUAL PHASE OF THE PROJECT THE CONTRACTORS SHALL PROVIDE THE FOLLOWING CERTIFICATES BEFORE CONFORMANCE LETTERS ARE ISSUED BY THE CONSULTANT:
 POTABLE WATER TEST

 PALANOMIC PERCENT.

 PALANOMIC PERCENT. BALANCING REPORT

ALL CERTIFICATES ARE TO BE SUBMITTED TOGETHER IN A SINGLE PACKAGE.

Item	Description	Item	Description
	- ITEM TO BE REMOVED		SUPPLY AIR DUCT
-SAN-EX	- EXISTING SAN ABOVE FLOOR		RETURN/EXHAUST AIR DUCT
-SAN-EX-	- EXISTING SAN BELOW FLOOR	-	ACOUSTIC DUCT LINING
— SAN — -	- SANITARY ABOVE FLOOR		THERMAL INSULATION
— SAN — -	- SANITARY BELOW FLOOR		BRANCH LINE SPIN-IN COLLAR C/W BALANCING DAMPER
	DOMESTIC COLD WATER PIPING		TRUNK MAIN BRANCH COLLAR C/W BALANCING DAMPER
	DOMESTIC HOT WATER PIPING	— BD	BALANCING DAMPER
—CD—	- CONDENSATE DRAIN		RECTANGULAR DUCTWORK
<u>_</u> D & -	FLOOR DRAIN		RIGID ROUND DUCT
	_ TEE CONNECTION		FLEXIBLE ROUND DUCT
c —	PIPE DOWN	Type Size Capacity	DIFFUSER/GRILLE SIZE (imp), TYPE & CAPACITY (cfm)
o —	PIPE UP	Type Size / cfm Capacity	HYDRONIC HEATING SIZE, TYPE & CAPACITY
		AD	ACCESS DOOR
		EX	EXISTING DUCT (SIZE AS INDICATED)

PLUMBING FIXTURE SCHEDULE									
ltem	Туре	Connect	on Sizes		Fixture		Trim		Accessories
item	Турс	HW CW TW	Drain Ve	nt Acceptable Manufacturer	Fixture Description	Acceptable Manufacturer	Trim Description	Acceptable Manufacturer	Accessory Description
S-1	STAINLESS STEEL CLASSROOM SINGLE SINK	15ø 15ø	40ø 32	KINDRED LBS6808-1/3 NOVANNI 1017I	SINK: SINGLE COMPARTMENT, LEDGE—BACK. FROM 1.0 mm (20 GAUGE) THICK TYPE 302 POLISHED STAINLESS STEEL, SELF—RIMMING, UNDERCOATED, CLAMPS. OVERALL SIZES: 520 mm X 510 mm X 200 mm (20½" X 20" X 8").	ZURN Z82300-CP8 MOEN COMMERCIAL 8701	FAUCET: CHROME PLATED BRASS, WITH GOOSENECK SWING SPOUT, AERATOR, LEVER HANDLES, WASHERLESS CONTROLS, ACCESSORIES TO LIMIT MAXIMUM FLOW RATE TO 8.35 I/min (2.2 gpm) AT 413 kPa (60 psi).		WASTE FITTING: INTEGRAL STAINLESS STEEL BASKET STRAINER/STOPPER, TAILPIECE, CAST BRASS P-TRAP WITH CLEANOUT.
DF-1	SINGLE MECHANICAL BOTTLE FILLER	15ø	32ø 32	Ø ELKAY EMASM	NON-REFRIGERATED, NON-FILTERED, STAINLESS STEEL CONSTRUCTION MECHANICALLY ACTIVATED BOTTLE FILLER, WALL MOUNTED. PROVIDE STRAINER				PROVIDE FLOOR MOUNTED WALL CARRIER

The contractor shall verify all dimensions and report all errors and discrepancies to the Consultant before commencement of the work.

The drawings show general arrangement of services.
Follow as closely as actual building construction will permit. Obtain approval for relocation of service from Consultant before commencement of the work.
The drawings do not indicate all offsets fitting and accessories which may be required. Provide the same

accessories which may be required. Provide the same to meet the required conditions.

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MECHANICAL | ELECTRICAL | AQUATIC



DATE BY

24/03/08 MW

NO. ISSUES

ISSUED FOR REVIEW

2	ISSUED FOR PERMIT & TENDER	24/04/18	MW
NO.	REVISIONS	DATE	BY

PROJECT:

COLDWATER PUBLIC SCHOOL INTERIOR RENOVATIONS

3 JOHN ST. WEST , COLDWATER, ON SCDSB - COLDWATER PUBLIC SCHOOL

DRAWING:

KEY PLAN SCHEDULES & LEGEND



BARRY BRYAN ASSOCIATES

Architects Engineers Project Managers 250 Water Street Suite 201 Whitby, Ontario L1N 0G5

Tel: (905) 666-5252 Fax: (905) 666-5256 e-mail: bba@bba-archeng.com

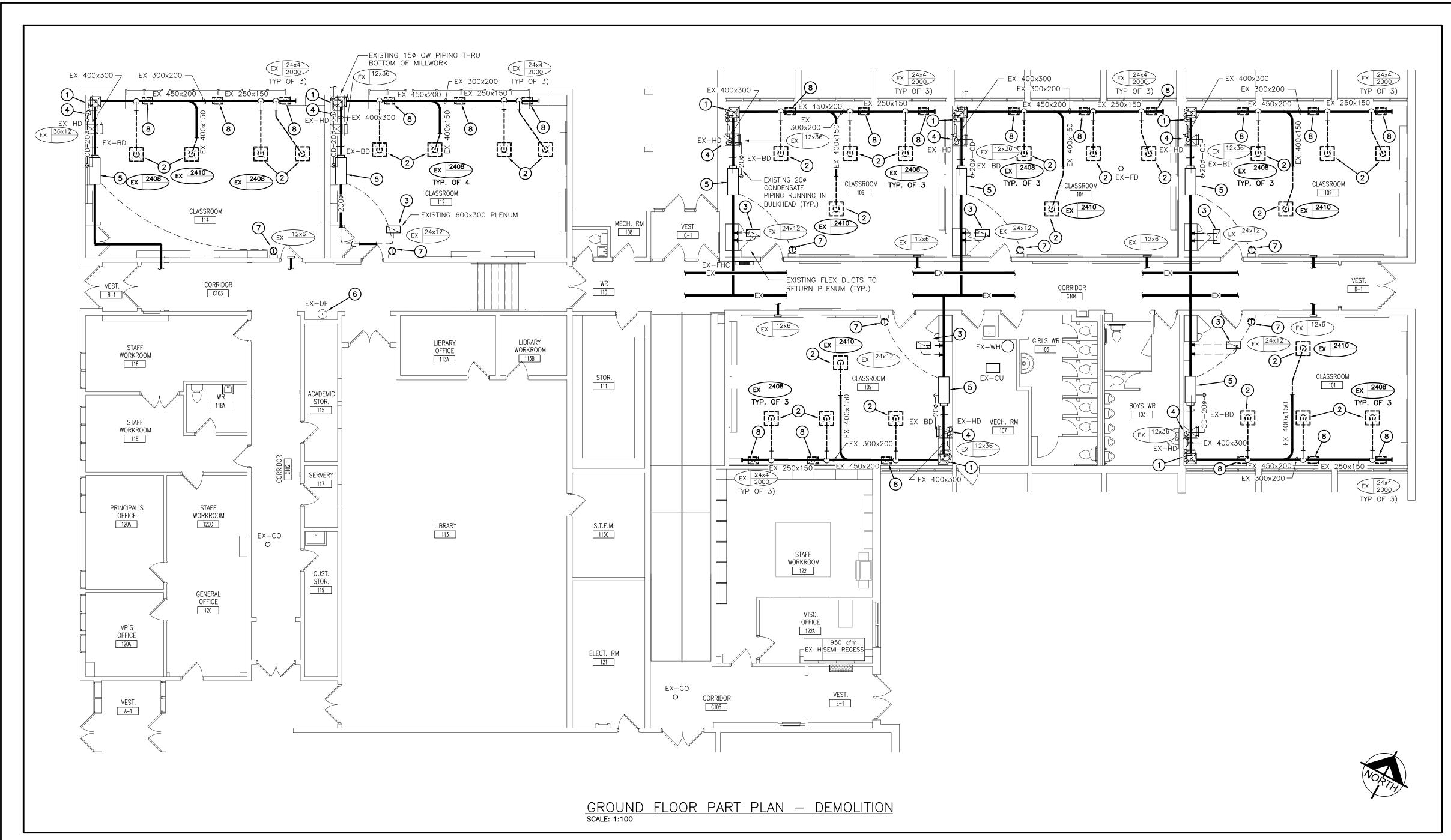
AS NOTED

CHECKED BY: MW

DATE: APRIL 2024

PROJECT NO:

24009 M1.1



GENERAL DEMOLITION NOTES

- EXISTING MECHANICAL ITEMS SHOWN BUT NOT NOTED AS BEING REMOVED OR RENOVATED SHALL REMAIN AS
- THIS CONTRACTOR SHALL BE RESPONSIBLE FOR SERVICES & EQUIPMENT PRIOR TO THE
- ALL OPENINGS THAT RESULT FROM THE REMOVAL OF EQUIPMENT OR SERVICES SHALL BE NEATLY PATCHED WITH SUITABLE NEW MATERIALS TO SUIT EXISTING
- PLUMBING VENTS ARE NOT INDICATED OR IDENTIFIED. REMOVE ALL REDUNDANT VENTS WHILE MAINTAINING
- INCLUDES REMOVAL OF ALL HANGERS, INSULATION,
- MAINTAIN INTEGRITY OF EXISTING SYSTEMS THAT ARE TO REMAIN OR BE MODIFIED.
- THIS CONTRACTOR IS TO REMOVE & REPLACE CEILINGS AS REQUIRED FOR REMOVAL/REPLACEMENT
- CONTRACTOR TO CARRY IN THEIR PRICING TO DRAIN

SPECIFIC DEMOLITION NOTES

- EXISTING SINK TO BE REMOVED COMPLETE, CUT BACK EXISTING WATER AND SANITARY LINES IN PREPARATION
- 2. EXISTING DIFFUSER TO BE REMOVED COMPLETE, CUT BACK DUCT IN PREPARATION FOR INSTALLATION OF NEW DIFFUSER IN NEW CEILING.
- 3. EXISTING GRILLE TO BE REMOVED COMPLETE.

OF THE CLASSROOM CONTROL PANEL

- 5. EXISTING HEAT PUMP. LABEL LOCATION ON GRID.
- COMPLETE, IN PREPARATION NEW BOTTLE FILLER
- REMOVE AND REINSTALL T-STAT TO SUIT THE REMOVAL

- EXISTING MECHANICAL ITEMS NOT SHOWN SHALL
- REMAIN UNLESS NOTED OTHERWISE.
- PRESENTLY INSTALLED AND OPERATING.
- VERIFYING ON SITE ALL LOCATIONS AND SIZES OF ALL COMMENCEMENT OF WORK.
- INTEGRITY OF EXISTING SYSTEMS TO REMAIN. REMOVAL OF EXISTING PIPING, OR DUCT SYSTEMS
- INSTALL NEW SYSTEM OR SERVICES WHERE REQUIRED TO MAINTAIN SYSTEM OPERATION PRIOR TO DEMOLITION OF EXISTING SERVICES.
- OF SERVICES.
- SYSTEM OR FREEZE PIPING TO COMPLETE WORK

- FOR CONNECTION OF NEW SINK AND MILLWORK
- EXISTING 20DIA CONDENSATE LINE TO REMAIN, DOWN FROM HEAT PUMP TO HUB DRAIN BELOW MILLWORK.
- . EXISTING DOUBLE DRINKING FOUNTAIN TO BE REMOVED
- 8. EXISTING GRILLE TO BE REMOVED COMPLETE. CUT AND CAP DUCT AT RISER.

errors and discrepancies to the Consultant before ommencement of the work. The drawings show general arrangement of services. Follow as closely as actual building construction will permit. Obtain approval for relocation of service from Consultant before commencement of the work.

The contractor shall verify all dimensions and report all

The drawings do not indicate all offsets fitting and accessories which may be required. Provide the same to meet the required conditions.

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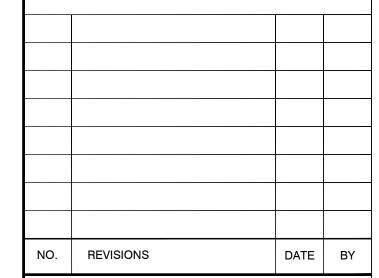


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		'	



PROJECT:

COLDWATER PUBLIC SCHOOL INTERIOR RENOVATIONS

3 JOHN ST. WEST, COLDWATER, ON SCDSB - COLDWATER PUBLIC SCHOOL

DRAWING:

ENLARGED GROUND FLOOR PART PLAN MECHANICAL DEMO



ASSOCIATES Architects Engineers

Project Managers 250 Water Street Suite 201 Whitby, Ontario L1N 0G5

Tel: (905) 666-5252 Fax: (905) 666-5256 e-mail: bba@bba-archeng.com

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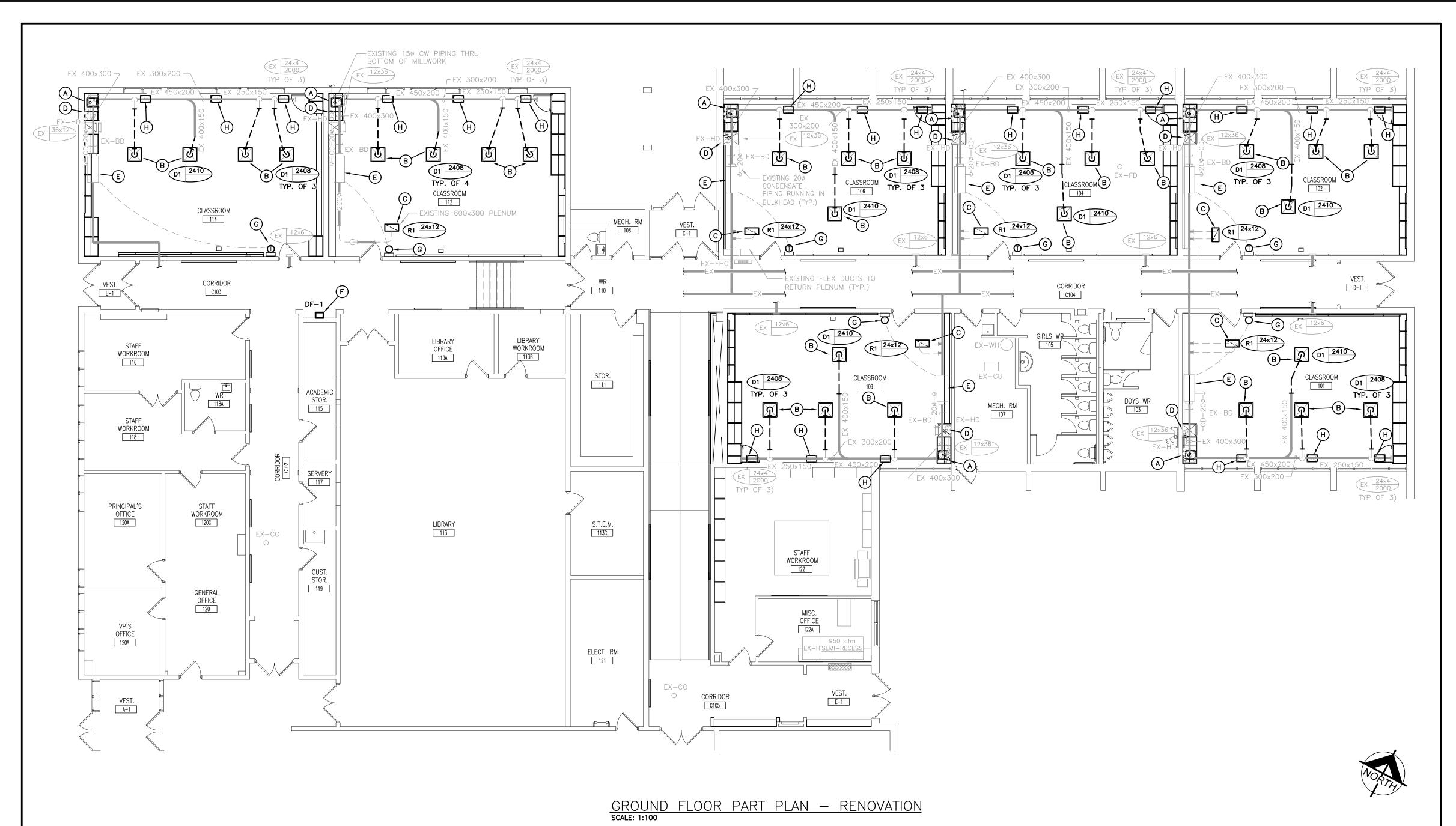
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MW APRIL 2024

M2.1

18 Apr 24

PROJECT NO:



GENERAL RENOVATION NOTES

- CLEAN AND VACUUM EXISTING DUCTWORK ADJACENT TO NEW CONNECTIONS \pm 10'-0" IN EACH DIRECTION.
- CO-ORDINATE ANY OWSJ BRIDGING RELOCATION OR REMOVAL/REPLACEMENT WITH THE GENERAL CONTRACTOR. PAY ALL COSTS REQUIRED TO MODIFY BRIDGING FOR INSTALLATION OF DUCTWORK.
- SANITARY VENT PIPING IS NOT SHOWN. PROVIDE ALL NECESSARY VENT PIPING FROM ALL FIXTURES FOR A COMPLETE SYSTEM TO ALL LOCAL PLUMBING CODE & LOCAL AUTHORITY REQUIREMENTS, CONNECTED TO EXISTING VENTS OR NEW VENTS AS REQUIRED. CO-ORDINATE VENT LOCATION(S) WITH GENERAL CONTRACTOR. MAINTAIN MINIMÙM 3700mm (12'-0") FROM ANY AIR INLET. INSTALL VENT PIPING HIGH IN JOIST SPACE.
- REFER TO ARCHITECTURAL CEILING PLANS FOR GRILLES/DIFFUSERS LOCATIONS. CO-ORDINATE FINAL LOCATION ON SITE.
- CO-ORDINATE ROUGH-IN AND MOUNTING HEIGHTS OF FIXTURES WITH MILLWORK AND ARCHITECTURAL DETAILS.
- CONTRACTOR TO CARRY IN THEIR PRICING TO DRAIN SYSTEM OR FREEZE PIPING TO COMPLETE WORK

SPECIFIC RENOVATION NOTES

- . INSTALL NEW SINK AND CONNECT TO EXISTING WATER AND SANITARY LINES.
- B. INSTALL NEW DIFFUSER IN NEW CEILING. RECONNECT TO EXISTING DUCTWORK.
- C. INSTALL NEW GRILLE. C/W FIRE FLAP.
- D. EXISTING 20DIA HEAT PUMP CONDENSATE LINE DOWN TO HUB DRAIN BELOW MILLWORK TO REMAIN. REWORK AS NECESSARY FOR NEW MILLWORK.
- E. EXISTING HEAT PUMP TO REMAIN.
- INSTALL NEW BOTTLE FILLER. CONNECT TO EXISTING WATER AND DRAIN.
- S. REMOVE AND REINSTALL T-STAT TO SUIT THE REMOVAL OF THE CLASSROOM CONTROL PANEL
- H. CAP DUCT ON RISER

ommencement of the work. The drawings show general arrangement of services.
Follow as closely as actual building construction will permit. Obtain approval for relocation of service from Consultant before commencement of the work. The drawings do not indicate all offsets fitting and accessories which may be required. Provide the same

The contractor shall verify all dimensions and report all errors and discrepancies to the Consultant before

to meet the required conditions.

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2 ISSUED FOR PERMIT & TENDER | 24/04/18 | MW

DATE BY

24/03/08 MW

DATE BY

NO. ISSUES

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PROJECT:

NO. REVISIONS

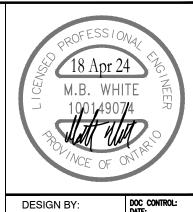
COLDWATER PUBLIC SCHOOL INTERIOR RENOVATIONS

3 JOHN ST. WEST , COLDWATER, ON SCDSB - COLDWATER PUBLIC SCHOOL

DRAWING:

ENLARGED GROUND FLOOR PART PLAN MECHANICAL RENO





% COMPLETE:

BARRY BRYAN ASSOCIATES Architects

Engineers Project Managers 250 Water Street Suite 201 Whitby, Ontario

L1N 0G5 Tel: (905) 666-5252 Fax: (905) 666-5256 e-mail: bba@bba-archeng.com

AS NOTED

APRIL 2024

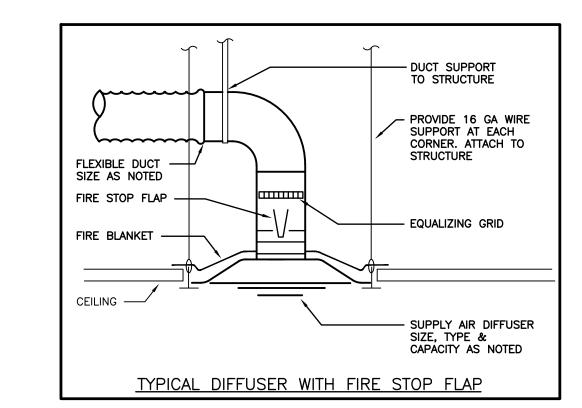
MW

MW

DRAWN BY:

PROJECT NO:

24009 **M2.2**



MECHANICAL SPECIFICATION

PART A GENERAL NOTES

- PROVIDE LABOUR, MATERIAL AND EQUIPMENT REQUIRED TO PROVIDE A COMPLETE INSTALLATION WITH QUALITY WORKMANSHIP ACCEPTABLE TO OWNER AND CONSULTANT.
- 2. OBTAIN ALL PERMITS AND PAY ALL TAXES, FEES, AND OTHER COSTS INCURRED WITH THIS WORK. FILE ALL PLANS. OBTAIN ALL NECESSARY APPROVALS, CERTIFICATES. SUBMIT ALL FINAL CERTIFICATES TO THE CONSULTANT. COMPLY WITH RULES AND RECOMMENDATIONS OF THE BOARD OF FIRE UNDERWRITERS, THE CANADIAN GAS ASSOCIATION, THE LOCAL BUILDING CODE, AND ALL REQUIREMENTS OF THE LOCAL UTILITY COMPANY AND BY-LAWS. POST BUILDING PERMIT AT SITE IN ACCORDANCE WITH
- 3. VISIT THE SITE BEFORE SUBMITTING TENDERS TO EVALUATE ANY SITE CONDITIONS THAT MIGHT ARISE. INCLUDE ALL SITE CONDITIONS IN TENDER, EXTRAS WILL NOT BE ACCEPTED UNLESS BELIEVED TO BE REASONABLE BY THE OWNER AND
- 4. COORDINATE WITH OTHER CONTRACTOR INSTALLING EQUIPMENT OR MATERIAL AND ARRANGE EQUIPMENT IN PROPER RELATION WITH ALL OTHER TRADES. ENSURE SYSTEMS ARE SERVICEABLE.
- 5. CUTTING AND PATCHING SHALL BE BY THE CONTRACTOR REQUIRED TO INSTALL THE SERVICE.
- 6. THE DRAWINGS ARE DIAGRAMMATIC. THE SERVICES SHALL BE INSTALLED TO CONSERVE HEADROOM AND INTERFERE AS LITTLE AS POSSIBLE WITH THE FREE USE OF THE SPACES THROUGH WHICH THEY PASS.
- 7. PROVIDE TWO MARKED COPIES OF "RECORD DRAWINGS" SHOWING THE SYSTEM AS INSTALLED. THE CAD DRAWINGS FILES WILL BE PROVIDED TO THE OWNER AS PART OF THE MAINTENANCE MANUALS.
- 8. THE MECHANICAL SYSTEMS OF THIS BUILDING MUST ACHIEVE THE ENERGY EFFICIENCY LEVELS BY CONFORMING TO ANSI/ASHRAE/IESNA 90.1 "ENERGY STANDARD FOR BUILDINGS EXCEPT LOW-RISE RESIDENTIAL BUILDINGS" AND CHAPTER 2 OF DIVISION 3 OF SB-10 PRESCRIPTIVE METHOD FROM THE ONTARIO BUILDING CODE.
- 9. ALL EQUIPMENT AND MATERIAL SHALL BE NEW. REPLACE ALL DAMAGED EQUIPMENT.
- 10. MATERIAL AND EQUIPMENT ARE NAMED IN THE SPECIFICATION TO ESTABLISH AN ACCEPTABLE STANDARD OF MATERIALS AND THE
- 11. SUBMIT SIX (6) COPIES OF SHOP DRAWINGS FOR ALL EQUIPMENT. THESE WILL BE REVIEWED BY THE CONSULTANT. RESUBMIT AS OFTEN AS MAY BE FOUND NECESSARY.
- 12. PROVIDE ALL NECESSARY PROTECTION FOR FINISHED OR UNFINISHED WORK. ALL OPENINGS IN PIPES, DUCTS AND EQUIPMENT SHALL BE CAPPED TO ENSURE SERVICES ARE KEPT CLEAN WHEN NOT IN USE.
- 13. MAINTAIN INSURANCE TO FULLY PROTECT THE CONTRACTOR, OWNER AND CONSULTANT FROM ANY AND ALL CLAIMS SUCH AS UNDER THE WORKMEN'S COMPENSATION ACT, ETC. POST PROJECT NOTIFICATION AT THE SITE IN ACCORDANCE WITH THE MINISTRY
- 14. EXCAVATION AND BACK FILLING SHALL BE BY THE TRADE INSTALLING THE SERVICE. PROVIDE COMPACTED 'A' GRAVEL FOR
- 15. PROVIDE STRUCTURAL SUPPORTS, PLATFORMS, SUPPORTING RODS, HANGERS, INSERTS AND BRACKETS FOR EQUIPMENT AND SERVICES. DO NOT SUPPORT SERVICES FROM STEEL DECK.
- 16. INSTRUCT THE OWNER'S STAFF IN THE CARE, MAINTENANCE AND OPERATION OF THE SYSTEMS.

BEDDING AND BACKFILLING AS INDICATED. REMOVE SURPLUS MATERIAL FROM SITE.

- 17. SUBMIT THREE (3) COPIES OF OPERATING AND MAINTENANCE INSTRUCTIONS IN A 3 RING BINDER LABELED FOR THE PROJECT. PROVIDE ADDITIONAL ELECTRONIC COPY.
- 18. REMOVE ALL PROTECTIVE COVERINGS, CLEAN AND POLISH ALL EQUIPMENT, FREE ALL OBSTRUCTIONS, CLEAN AND REPLACE ALL FILTERS WITH NEW, AND LEAVE ALL KEYS AND WRENCHES WITH THE OWNER.
- 19. ALL SURPLUS AND WASTE MATERIALS SHALL BE PROMPTLY REMOVED FROM THE PREMISES.
- 20. ALL AREAS NOT AFFECTED BY RENOVATION OR DEMOLITION SHALL REMAIN AS PRESENTLY INSTALLED UNLESS NOTED OTHERWISE.
- 21. THE OWNER WILL DECIDE WHICH ITEMS OR EQUIPMENT SLATED FOR REMOVAL THAT THEY WISH TO RETAIN AS THEIR PROPERTY AND THIS CONTRACTOR SHALL REMOVE ALL OTHER MATERIALS FROM THE PREMISES.
- 22. PROVIDE LAMICOID TAGS FOR IDENTIFICATION OF NEW EQUIPMENT ADDED.
- 23. ALL ELECTRICAL LINE AND LOW VOLTAGE WIRING WHICH IS TO BE PROVIDED BY THE MECHANICAL CONTRACTOR AS SPECIFIED ELSEWHERE HEREIN SHALL BE RUN IN EMT CONDUIT TO STANDARDS OF THE ELECTRICAL DIVISION.
- 24. WARRANTY ALL MATERIAL AND EQUIPMENT FOR A PERIOD OF ONE (1) YEAR AFTER FINAL ACCEPTANCE OF SYSTEM.

FERROUS SLEEVES WITH HEAVY APPLICATION OF ZINC RICH PAINT TO CGSB 1-GP-181M+AMDT-MAR-78.

- PROVIDE SCHEDULE 40 STEEL PIPE SLEEVES AT POINTS WHERE PIPES PASS THROUGH MASONRY, CONCRETE OR FIRE RATED ASSEMBLIES AND AS INDICATED. GROUT SLEEVES IN PLACE. MINIMUM 6 MM (1/4") CLEARANCE ALL AROUND, BETWEEN SLEEVE AND UNINSULATED PIPE OR BETWEEN SLEEVE AND INSULATION. CAULK BETWEEN SLEEVE AND PIPE IN FOUNDATION WALLS AND BELOW GRADE FLOORS WITH WATERPROOF FIRE RETARDANT NON-HARDENING MASTIC. WHERE SLEEVES PASS THROUGH WALLS OR FLOORS, PROVIDE SPACE FOR FIRESTOPPING, WHERE PIPES PASS THROUGH FIRE RATED WALLS, FLOORS AND PARTITIONS. MAINTAIN FIRE RATING INTEGRITY. ENSURE NO CONTACT BETWEEN COPPER TUBE OR PIPE AND FERROUS SLEEVE. FILL FUTURE-USE SLEEVES WITH LIME PLASTER OR OTHER EASILY REMOVABLE FILLER. COAT EXPOSED EXTERIOR SURFACES OF
- 26. DUCT SLEEVES PROVIDE MINIMUM 20 GAUGE DUCT SLEEVES WHERE DUCTS PASS THROUGH MASONRY, CONCRETE OR FIRE RATED ASSEMBLIES. MAINTAIN MINIMUM 25 MM CLEARANCE ALL AROUND OR TO THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION. SEAL AT WALL AS INDICATED. WHERE DUCTS PASS THROUGH FIRE RATED WALLS, FLOORS AND PARTITIONS, MAINTAIN FIRE RATING
- 27. ACCESS DOORS PROVIDE ACCESS DOORS TO CONCEALED MECHANICAL EQUIPMENT FOR OPERATING, INSPECTING, ADJUSTING AND SERVICING. FLUSH MOUNTED 600 X 600 MM (24" X 24") FOR BODY ENTRY AND 300 X 300 MM (12" X 12") FOR HAND ENTRY UNLESS OTHERWISE NOTED. DOORS TO OPEN 180°, HAVE ROUNDED SAFETY CORNERS, CONCEALED HINGES, SCREWDRIVER LATCHES AND ANCHOR STRAPS.
- MATERIAL: SPECIAL AREAS SUCH AS TILED OR MARBLE SURFACES: USE STAINLESS STEEL WITH BRUSHED SATIN OR POLISHED FINISH AS DIRECTED BY CONSULTANT. REMAINING AREAS: USE PRIME COATED STEEL. FIRE RATED AREAS: PROVIDE ULC LISTED
- INSTALLATION: LOCATE SO THAT CONCEALED ITEMS ARE ACCESSIBLE, LOCATE SO THAT HAND OR BODY ENTRY (AS APPLICABLE) IS ACHIEVED

ACCEPTABLE MATERIALS: LE HAGE

ZURN

ACUDOR NAILOR INDUSTRIES INC.

PART B DEMOLITION NOTES

- 1. THIS PROJECT IS ONE OF A RETROFIT NATURE IN PART, AND WHICH WILL REQUIRE SOME DEMOLITION. ALLOW FOR ALL REMEDIAL WORK IN AREAS INDICATED ON THE DRAWINGS AND AS GENERALLY DEFINED IN THE RELEVANT SECTIONS OF THE
- 2. THE SCOPE OF WORK IS ESSENTIALLY THE SELECTED DISCONNECTION AND/OR REMOVAL OF SERVICES AND/OR EQUIPMENT, PIPING, DUCTWORK ETC. AS INDICATED OR REQUIRED TO COMPLETE THE WORK.
- 3. THIS DIVISION IS TO LIAISE WITH THE OWNERS OR CONSULTANT FOR EQUIPMENT BEING REMOVED THAT MAY BE SUITABLE FOR REUSE TO THAT SPECIFIED OR HANDED OVER TO THE OWNER.
- 4. THIS DIVISION TO TAKE FULL RESPONSIBILITY FOR ANY SPECIAL TOOLS OR EQUIPMENT REQUIRED TO DISASSEMBLE OR REMOVE MATERIAL FROM BUILDING.
- 5. THE GENERAL EXECUTION OF THE DEMOLITION IS TO BE CARRIED OUT IN A CLEAN AND EFFICIENT MANNER.
- 6. DEMOLITION OF EXISTING CEILING, WALLS ETC., TO FACILITATE REMOVAL OF EXISTING SERVICES OR EQUIPMENT OR INSTALLATION OF NEW TO BE KEPT TO A MINIMUM AND THEN RESTORED TO MATCH EXISTING.
- 7. ALL OPENINGS OR HOLES CREATED BY REMOVAL OF EXISTING MECHANICAL SYSTEMS WHICH ARE NOT BEING REUSED ARE TO BE PATCHED WITH THE SAME MATERIAL SURROUNDING SURFACES.
- 8. PROTECT ALL EXISTING FURNISHINGS MATERIALS AND EQUIPMENT. ANY DAMAGE OCCURRING AS A RESULT OF THE WORK OF THIS DIVISION SHALL BE REPAIRED OR REPLACED AT THE EXPENSE OF THIS DIVISION.
- 9. WHERE WORK INVOLVES BREAKING INTO OR CONNECTING TO EXISTING SERVICES, CARRY OUT WORK AT TIMES DIRECTED BY THE OWNERS IN AN EXPEDIENT MANNER WITH MINIMUM DISRUPTION TO THE FACILITY AND SYSTEMS DOWNTIME.
- 10. WHERE UNKNOWN SERVICES ARE ENCOUNTERED, IMMEDIATELY ADVISE CONSULTANT AND CONFIRM FINDINGS IN WRITING.
- 11. WHERE THE LOCATION OF ANY SERVICES HAS BEEN SHOWN ON THE PLANS, SUCH INFORMATION IS NOT GUARANTEED. IT IS THIS DIVISION'S RESPONSIBILITY TO VERIFY LOCATIONS, INVERT ELEVATIONS, ETC., IMMEDIATELY AFTER MOVING ON SITE. SHOULD FOR ANY REASON THE INFORMATION OBTAINED NECESSITATES CHANGES IN PROCEDURE OR DESIGN, ADVISE THE CONSULTANT AT ONCE. IF VERIFICATION OF EXISTING CONDITIONS IS NOT DONE AT THE OUTSET AND ANY PROBLEMS ARISE, THE RESPONSIBILITY FOR SAME IS ENTIRELY THIS DIVISION'S.
- 12. DISCONNECT AND/OR REMOVE EQUIPMENT PIPING, DUCTWORK, ETC. AS INDICATED.
- 13. CAP AND CONCEAL ALL REDUNDANT AND OBSOLETE CONNECTIONS.
- 14. PROVIDE A LIST OF EQUIPMENT TO BE REMOVED TO THE OWNER, FOR HIS ACCEPTANCE OF SAME. REMOVE ALL EQUIPMENT FROM SITE WHICH THE OWNER DOES NOT RETAIN.
- 15. MAINTAIN EQUIPMENT TO BE RETAINED BY OWNER ON SITE WHERE DIRECTED BY CONSULTANT.
- 16. DEMOLITION OF ALL PARTS OF THE WORK MUST BE COMPLETED WITHIN THE CONFINES OF THE WORK AREA AND IN SUCH A WAY AS THE DUST PRODUCED AND RISK TO INJURY OF WILL NOT ADVERSELY AFFECT THE BUILDING USERS.
- 17. DEMOLISHED AREAS OF THE EXISTING BUILDING WILL REMAIN IN THEIR CURRENT USE IN SOME CASES. DEMOLITION IN THESE AREAS MUST BE KEPT TO THE MINIMUM REQUIRED TO COMPLETE THE WORK.
- 18. DEMOLITION SHALL TAKE PLACE WITHIN AREAS ISOLATED FROM ALL OTHER AREAS WITH APPROPRIATE HOARDING, SCAFFOLDING, NETTING, FENCING OR OTHER MEANS OF SECURITY BETWEEN BUILDING USERS AND THE WORK.
- 19. CO-ORDINATE MAKING SAFE ELECTRICAL DEVICES, CAPPING PLUMBING AND REMOVAL OF FIXTURES PRIOR TO COMMENCEMENT OF
- 20. ALL PIPING AND EQUIPMENT TO BE REMOVED AND/OR ABANDONED SHALL BE DRAINED PRIOR TO CAPPING AND/OR ABANDONING. DISPOSAL OF ALL LIQUIDS SHALL BE TO THE APPROVAL OF AUTHORITY OF HAVING JURISDICTION AND/OR PROVÍNCIAL
- 21. DRAIN ALL EXISTING PIPING AND DRAINAGE SYSTEMS INCLUDING ALL RELATED EQUIPMENT AS REQUIRED TO FACILITATE SYSTEM
- 22. DISPOSAL OF EXISTING SYSTEM SHALL BE TO THE REQUIREMENTS OF THE LOCAL AND/OR PROVINCIAL REGULATIONS.

PART C PLUMBING NOTES

- 1. CONTRACTOR TO PROVIDE POTABLE WATER CERTIFICATE FOR E. COLI AND COLIFORM FROM A RECOGNIZED TESTING LABORATORY UPON COMPLETION OF THE PROJECT. WATER IS TO BE TAKEN FROM A NEW FIXTURE TO TEST THE NEW PIPING INSTALLED.
- CONNECT TO EXISTING SERVICES WHERE SHOWN ON DRAWINGS.
- 3. CODES AND REGULATIONS
- SANITARY, SOIL WASTE, VENT, AND ALL WATER PIPING SHALL CONFORM AND BE INSTALLED TO THE ONTARIO PLUMBING CODE AND THE CANADIAN PLUMBING CODE, LATEST EDITION.
- 4. TESTING
- SANITARY PIPING: ALL SANITARY PIPING SHALL BE TESTED WITH WATER UNDER THE GUIDANCE OF THE LOCAL PLUMBING INSPECTOR. SMOKE TESTS OR ANY OTHER TEST REQUIRED BY THE PLUMBING INSPECTOR SHALL ALSO BE MADE. WATER PIPING: ALL WATER PIPING SHALL BE TESTED TO 150 PSI. PRESSURE FOR NOT LESS THAN FOUR HOURS WITHOUT A LOSS IN

FLUSHING AND DISINFECTING

MAINTAIN TESTABLE RP BACKFLOW PREVENTER BETWEEN MUNICIPAL WATER AND NEW PLUMBING SYSTEM. ENSURE A MINIMUM OF 90% OF PLUMBING FIXTURES ARE INSTALLED. FLUSH WATER MAINS THROUGH AVAILABLE OUTLETS WITH A SUFFICIENT FLOW OF POTABLE WATER TO PRODUCE A VELOCITY OF 1.5 M/S, WITHIN PIPE FOR 10 MIN, OR UNTIL FOREIGN MATERIALS HAVE BEEN REMOVED AND FLUSHED WATER IS CLEAR WITH BACKFLOW PROTECTION. PROVIDE CONNECTIONS AND PUMPS FOR FLUSHING AS REQUIRED. OPEN AND CLOSE VALVES, AND OPERATE FIXTURES TO ENSURE THOROUGH FLUSHING. TAKE WATER SAMPLES AT REMOTE FIXTURES AND SERVICE CONNECTIONS.

5. PIPE AND FITTINGS

SANITARY AND VENT DRAINS: (ABOVE GRADE), IPEX: PVC-XFR DRAIN WASTE AND VENT PIPE TO CAN/CSA-B181.2 . STORM, SANITARY AND VENT PIPING: (BELOW GRADE) PVC DRAINAGE PIPE TO SDR 35 WITH SOLVENT WELDED JOINTS. ABS DRAINAGE PIPE WITH SOLVENT WELDED JOINTS. WATER PIPING: TYPE L COPPER WITH LEAD FREE SOLDER JOINTS.

ISOLATION VALVES: HOT AND COLD WATER BRONZE BODY, CLASS 150, STAINLESS STEEL BALL, FULL PORT, PTFE SEAT AND PACKING, STEEL LEVER HANDLE. MILWAUKEE BA-455, CRANE, TOYO CHECK VALVES: HOT AND COLD WATER SIZES 1/2"
DIAMETER TO 2" DIAMETER CRANE FIG. 1342, OR EQUAL JENKINS, BRONZE SWING CHECK, SOLDER ENDS. CRANE FIG. 29 OR EQUAL JENKINS VERTICAL LIFT CHECK VALVE, SCREWED ENDS ON VERTICAL PIPING.

CLEANOUTS

CLEANOUTS: PROVIDE AND SET CLEANOUT PLUGS IN ALL DRAINS AND SOIL PIPE LINES WHERE OBSTRUCTIONS MAY BE FOUND, AT CHANGES OF DIRECTION, AT THE BASE OF ALL SANITARY STACKS AND AT INTERVALS. LENGTHS TO THE ONTARIO PLUMBING CODE. CLEANOUTS SHALL BE FULL SIZES OF PIPES UP TO 4" DIAMETER AND NOT LESS THAN 4" DIAMETER FOR LARGER PIPES. ANCON CO-100-R OR EQUAL.

8. INDIVIDUAL THERMOSTATIC WATER CONTROLLER 1/2" INLETS AND OUTLETS, CHECK STOPS, REMOVABLE CARTRIDGE WITH STRAINER, ROUGH BRONZE FINISH, SHUT-OFF VALVES. ACCEPTABLE MANUFACTURER: POWERS LM490 OR EQUAL.

9. TRAP PRIMERS

TRAP PRIMERS: ALL TRAPS WHERE REQUIRED BY THE CODE TO BE PRIMED OR WHERE SHOWN ON THE DRAWINGS SHALL HAVE ZURN Z-1022 OR EQUAL TRAP SEAL PRIMER INSTALLED IN THE NEAREST COLD WATER LINE TO THE TRAP. TRAP PRIMER SHALL BE CONCEALED, PROVIDE ACCESS DOOR.

10. PLUMBING FIXTURES

FIXTURES AS LISTED ON THE DRAWINGS. ALL FIXTURES MUST BE NEW AND CLEAN WHEN THE WORK IS TAKEN OVER BY THE OWNER. ALL PLUMBING FIXTURES SHALL BE EQUIPPED WITH SUPPLY VALVES, FAUCETS, TRAPS, SUPPORTS, WATER CONNECTIONS, ESCUTCHEONS, HANGERS, BOLTS, ETC. FIXTURES SHALL BE CRANE OR EQUAL AMERICAN STANDARD, KOHLER, TRAPS: 2" DIAMETER AND SMALLER, SHALL BE CAST BRASS AND CHROME PLATED IN EXPOSED AREAS. ALL SINK TRAPS SHALL BE TWO PIECE CONSTRUCTION. ALL TRIM MUST BE CAMBRIDGE BRASS OR EQUAL. ON COMPLETION ALL FIXTURES, ACCESSORIES AND EXPOSED PIPING SHALL BE THOROUGHLY CLEANED AND LEFT READY FOR USE. AFTER FINAL INSPECTION BY THE PLUMBING INSPECTOR CAULK AROUND BASE OF ALL FIXTURES TO THE WALL OR FLOOR WITH SILICONE CAULKING.

INSULATE ALL DOMESTIC HOT AND COLD WATER PIPING AND STORM PIPING ABOVE GRADE. WITH 1" (FOR PIPING UNDER 1 1/2" DIAMETER) OR 1 1/2" (FOR PIPING 1 1/2" DIAMETER AND HIGHER) FIBERGLASS INSULATION WITH VAPOUR BARRIER. INSTALL AS PER MANÚFACTURERS RÈCOMMENDATIONS. RECOVER EXPOSED PIPING WITH PVC JACKET.

PART E HEATING, AIR CONDITIONING, AND VENTILATION NOTES

1. DUCTWORK TO BE CONSTRUCTED TO SMACNA STANDARDS, MEDIUM STATIC PRESSURE WITH LEAKAGE RATE OF 5% MAXIMUM. FABRICATED IN ACCORDANCE WITH RECOMMENDATIONS OF SMACNA AND ASHRAE. SEAL ALL TRANSVERSE AND LONGITUDINAL JOINTS WITH DUCT SEALER.

ROUND AND OVAL: DUCTS: FACTORY FABRICATED, SPIRAL WOUND, WITH MATCHING FITTINGS AND SPECIALS TO SMACNA. TRANSVERSE JOINTS UP TO 900 MM (36"): SLIP TYPE WITH TAPE AND SEALANTS.

SQUARE AND RECTANGULAR: DUCT: TO SMACNA. TRANSVERSE JOINTS, LONGEST SIDE:UP TO AND INCLUDING 750 MM (30"): SMACNA PROPRIETARY DUCT SHOWER EXHAUST ALUMINUM: TO ASHRAE AND SMACNA. ALUMINUM TYPE: 3003-H-14. THICKNESS, FABRICATION AND REINFORCEMENT: TO ASHRAE AND SMACNA OR AS INDICATED.

JOINTS: TO ASHRAE AND SMACNA ACCEPTABLE MATERIAL: DUCTMATE CANADA LTD.

4. DAMPERS

SPLITTER DAMPERS WITH CONTROL ROD WITH LOCKING DEVICE ON EXTERIOR OF DUCT. DAMPERS TO BE SINGLE THICKNESS ONE GAUGE HEAVIER THAN CUT AIRFOIL SHAPE DOUBLE THICKNESS ONE GAUGE HEAVIER THAN DUCT. BALANCING SINGLE BLADE BALANCING DAMPERS WITH LOCKING QUADRANT. ROUND BALANCING DAMPERS TO BE 1/16" THICK. RECTANGULAR BALANCING DAMPERS TO BE 1/16" THICK. MULTI-LEAF OPPOSED BLADE DAMPERS DESIGNED TO SMACNA DETAILS WITH LOCKING QUADRANT. MANUFACTURED ADJUSTABLE EXTRACTORS TO BE WITH ADJUSTMENT ROD. ACCEPTABLE PRODUCTS: TITUS, NAILOR APPROVED DAMPERS OF THICKNESS' AND TYPES OF CONSTRUCTION IN ACCORDANCE WITH SMACNA DUCT CONSTRUCTION STANDARDS.

5. FLEXIBLE CONNECTIONS

AT ALL DUCT CONNECTIONS TO FANS AND AIR HANDLING UNITS. NEOPRENE COATED GLASS FABRIC. NOT MORE THAN 6" LONG BETWEEN METAL PARTS INSTALLED SUFFICIENT SLACK TO PREVENT VIBRATION TRANSMISSION. ALLOW MOVEMENT (2") TO LOW PRESSURE FANS.

6. GRILLES/DIFFUSERS

8. SYSTEM BALANCING

GRILLES/DIFFUSERS SHALL BE THE SAME MANUFACTURER. TYPE AS SHOWN ON THE DRAWING. ACCEPTABLE MATERIALS: KRUEGER, E.H. PRICE, TITUS, NAILOR, TUTTLE & BAILEY, METALAIR.

SYSTEM CAPACITY. PROVIDE 3 COPIES OF BALANCING REPORTS C/W SYSTEM SCHEMATICS.

7. DUCTWORK INSULATION

ON THE LAST 5'-0" OF ALL EXHAUST DUCTS, INCLUDING PLENUM AND ALL AIR INTAKE DUCTWORK. FIBERGLASS FOIL FACED RIGID DUCT INSULATION 1" THICK TYPE PF-335-3/4 LB. DENSITY WITH RFFRK FACING. GLUE AND PIN AS PER MANUFACTURERS

ON ALL OUTDOOR AIR DUCTWORK, FIBREGLASS FOIL FORCED RIGID DUCT INSULATION 3" THICK TYPE PF-335-3/4 LB DENSITY WITH RFFRK FACING, GLUE AND PIN. RECOVER ALL EXTERIOR DUCTWORK WITH TWO COATS OF MASTIC SEALER AND 28 GAUGE PREFINISHED METAL FLASHING WITH CROSSBREAKS AND STANDING SEAMS AND BUTTONHOOK JOINTS. COLOUR TO MATCH BUILDING FLASHINGS. LABEL DUCTWORK WITH STAMPED LABEL INDICATING TYPE AND FLOW DIRECTION. LABEL IN EACH ROOM VISIBLE FROM ACCESS POINTS.

BALANCE AIR AND WATER SYSTEMS USING NEBB CERTIFIED FIRM AND AS PER NEBB REQUIREMENTS TO WITHIN 5% OF TOTAL

The drawings show general arrangement of services. Follow as closely as actual building construction will permit. Obtain approval for relocation of service from Consultant before commencement of the work. The drawings do not indicate all offsets fitting and accessories which may be required. Provide the same to meet the required conditions.

The contractor shall verify all dimensions and report al errors and discrepancies to the Consultant before

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NO.	ISSUES	DATE	BY
1	ISSUED FOR REVIEW	24/03/08	MW
2	ISSUED FOR PERMIT & TENDER	24/04/18	MW

NO.	REVISIONS	DATE	BY

PROJECT:

COLDWATER PUBLIC SCHOOL INTERIOR RENOVATIONS

3 JOHN ST. WEST, COLDWATER, ON SCDSB - COLDWATER PUBLIC SCHOOL

DRAWING:

MECHANICAL SPECIFICATION



BARRY BRYAN DESIGN BY: **ASSOCIATES** DRAWN BY: Architects Engineers Project Managers CHECKED BY: MW

250 Water Street Suite 201 Whitby, Ontario

L1N 0G5 Tel: (905) 666-5252 Fax: (905) 666-5256 e-mail: bba@bba-archeng.com

PROJECT NO: 24009

24046 M2.1-M2.4.dwg

APRIL 2024

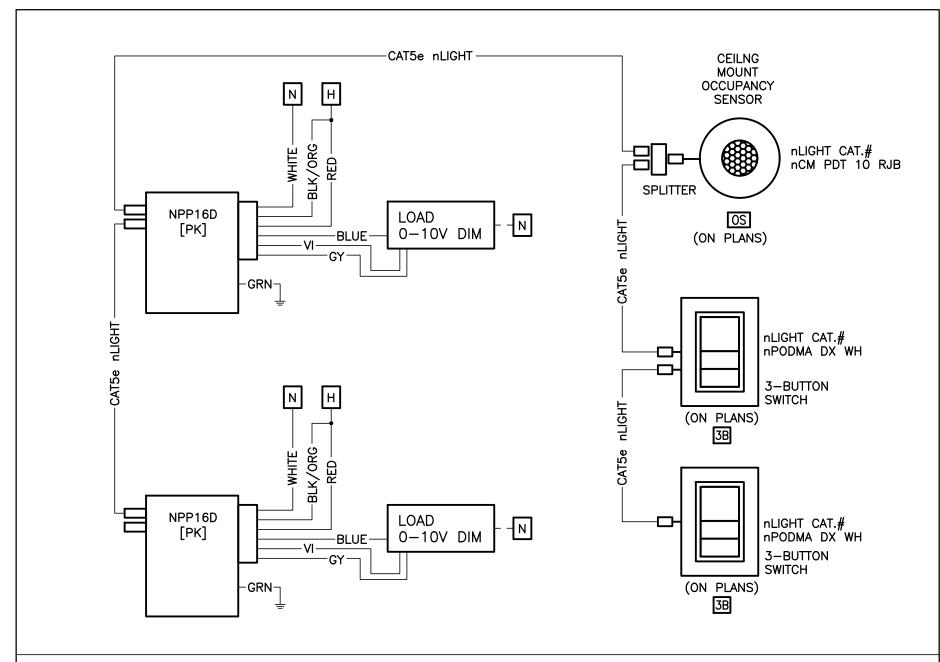
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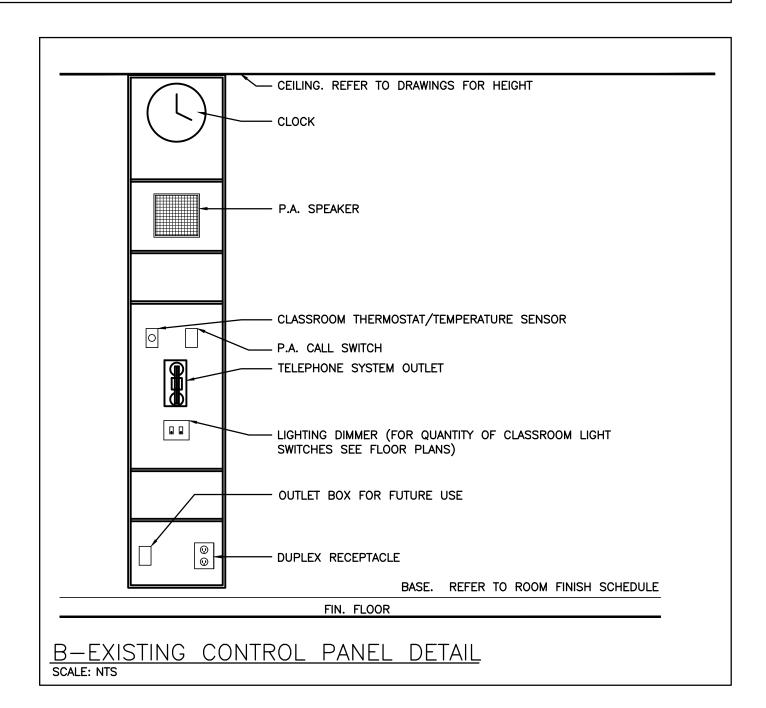
- 1 POWER PACKS ARE TO BE MOUNTED ON A JUNCTION BOX IN CEILING SPACE.
- CONTROL WIRING AS INDICATED BY MANUFACTURER IS TO BE PLENUM RATED CATSE CABLE C/W RJ45 CONNECTORS.
- ENSURE CEILING MOUNTED OCCUPANCY SENSOR IS INSTALLED IN AN OUTLET BOX AND IS MOUNTED A MINIMUM OF 605mm (24") FROM DIFFUSERS AND 300mm (12") FROM LIGHT FIXTURES.
 SWITCHES SHALL BE AS NOTED ON DRAWINGS.
- 5 REFER TO FLOOR PLANS FOR QUANTITIES OF INDICATED DEVICES.
 6 INDICATED CATALOGUE NUMBERS ARE FOR nLIGHT PRODUCTS. EQUALS ARE ACCEPTABLE FROM THE FOLLOWING MANUFACTURERS:

 WATTSTOPPER
- GREENGATE

 7 THE MANUFACTURER'S REPRESENTATIVE IS TO PROVIDE AN ON SITE COMMISSIONING SESSION WITH
- THE CONTRACTOR AND/OR CONSULTANT TO CONFIRM OPERATION.
 AS AN OPTION, THE CONTRACTOR/SUPPLIER MAY REVISE THESE DEVICES TO A SINGLE DIGITAL ROOM CONTROLLER. IF SO, POWER MUST BE PROVIDED TO THE CONTROLLER FROM THE LINE SIDE OF THE ROOM'S LIGHTING CIRCUIT. IF AN ADDITIONAL WIRING METHOD IS REQUIRED BY THE MANUFACTURER
- THE CONTRACTOR MUST INCLUDE ALL COSTS IN TENDER.

 9 LOW VOLTAGE 0-10V PLENUM RATED CONTROL WIRING AS INDICATED BY MANUFACTURER.
- 10 COMMISSIONING REPORT IS TO BE INCLUDED IN THE OWNER'S MANUAL.

A-CLASSROOM LIGHTING WIRING DIAGRAM SCALE: N.T.S.

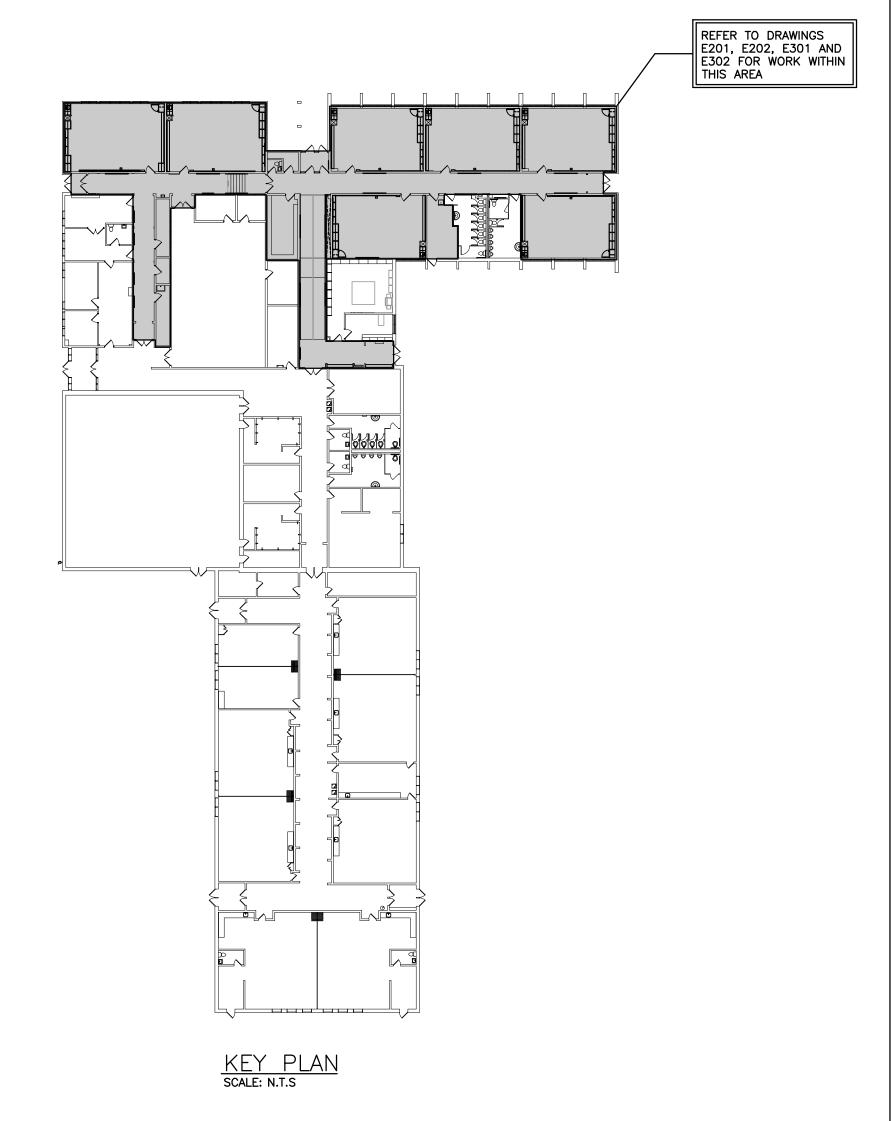


LIGHTING CONTROL SYSTEMS SEQUENCE OF OPERATION					
Space Type	Room Names	Control Sequence / Control Device(s):	Control System	DETAIL REFERENCE	
Classrooms	TYPICAL	Sequence: MANUAL ON: LZ-1 AND LZ-2 MANUAL ON THROUGH WALL SWITCH/AUTOMATIC OFF THROUGH OCCUPANCY SENSOR/MANUAL OFF - RAISE/LOWER DIMMER THROUGH WALL SWITCH - LIGHTS SET TO 70% LIGHT OUTPUT. AUTO OFF: 5 MINUTES AFTER THE ROOM HAS BEEN VACATED, THE LIGHTS WILL AUTOMATICALLY TURN OFF.	DIGITAL OCCUPANCY CONTROL SYSTEM	A E101	
Storage	TYPICAL	Sequence: AUTOMATIC ON/AUTOMATIC OFF. OCCUPANCY SENSOR SET TO 30 MINUTES. DELAY ONCE THE ROOM HAS BEEN VACATED, THE LIGHTS WILL AUTOMATICALLY TURN OFF.	OCCUPANCY CONTROL SYSTEM AS SHOWN		

NOTES:

ALL INDICATED TIMES SHALL BE COORDINATED WITH SCHOOL BOARD REPRESENTATIVE. REPORT ANY DISCREPANCIES BETWEEN SEQUENCE AND CONTROL DEVICES TO ENGINEER PRIOR TO PROGRAMMING. COORDINATE PROGRAMMING OF ANY SPACES NOT LISTED WITH BOARD REPRESENTATIVE (EXCLUDING SERVICE ROOMS).

REFER TO SPECIFICATIONS FOR FURTHER INFORMATION REGARDING COMMISSIONING AND 3RD PARTY FUNCTIONAL TESTING OF LIGHTING CONTROL



_	ELECTRICAL SYMBOLS			E: ALL SYMBOLS MAY NOT BE USED
		GENERAL		LIGHTING
E	ĒR	INDICATED EXISTING ITEM TO REMAIN	X	LIGHT FIXTURE TYPE AS INDICATED
	D	INDICATES EXISTING ITEM TO BE DELETED	1)	CEILING MOUNTED EXIT LIGHT ARROWS DENOTE DIRECTION SHADING INDICATES FACE
	R	INDICATES EXISTING ITEM TO BE RELOCATED/IN RELOCATED POSITION	a a	TWIN EMERGENCY LIGHTING FIXTURE
G	GF	GROUND FAULT	EM-X EBUT-40 DC-X X-X	BATTERY UNIT WITH INTEGRAL TWIN EMERGENCY FIXTURE (EM-X INDICATES BATTERY UNIT
w	V P	WEATHERPROOF	BO-40 X-X^	TYPE, DC-X INDICATES DC CIRCUIT, AND X-X INDICATES AC SOURCE CIRCUIT
W	VG	WIREGUARD	\$	SINGLE POLE SWITCH (3=3 WAY, 4=4 WAY, P=PILOT LIGHT, K=KEYED, DM=DIMMER, M=MOTOR RATED)
С	LG	CEILING MOUNTED	\$°s	WALL SWITCH OCCUPANCY SENSOR W/ PASSIVE DUAL TECHNOLOGY - LINE VOLTAGE. WHITE FINISH.
	×	NOTE INDICATOR	OS	CEILING MOUNTED MOTION SENSOR
	8	MECHANICAL ITEM NO.	PK	POWER PACK LOCATED IN CEILING SPACE
	STA	NDARD CIRCUIT LABELING	XB	DENOTES NUMBER OF BUTTONS. AS NOTED ON DRAWING.
P	POWER I	A-1-1	LZ-#	LIGHTING ZONE (# INDICATES ZONE NUMBER)
		INDICATION ————————————————————————————————————		COMMUNICATIONS
		POWER	▼#	SINGLE WALL MOUNTED TELEPHONE OUTLET C/W ½" (13mm) C TO CABLE MANAGEMENT SYSTEM.
	٥	DIRECT CONNECTION	∇	SINGLE COMPUTER OUTLET C/W ¾" (21mm) C TO CABLE MANAGEMENT SYSTEM.
	=	PANEL AS INDICATED	V #/#	COMBINATION SINGLE VOICE/ SINGLE COMPUTER OUTLET UNLESS OTHERWISE NOTED C/W 1" (27mm) C TO CABLE
	₽	FUSED DISCONNECT	VOICE DATA	MANAGEMENT SYSTEM. # INDICATES THE QUANTITY OF ACTIVE PARTS. LEFT VALUE ALWAYS INDICATES VOICE.
	-	UNFUSED DISCONNECT	WAP	WIRELESS ACCESS POINT. PROVIDE 34" (21mm) C TO CABLE MANAGEMENT SYSTEM
	Z	MANUAL STARTER	(A)	AV OUTLET AS NOTED
	Ø	MAGNETIC STARTER		FIRE ALARM
	X	COMBINATION MAGNETIC STARTER	S	SMOKE DETECTOR (RL=RELAY BASE)
	X	TRANSFORMER	7	ALARM HORN
		SECURITY	A	COMBINATION HORN/STROBE
	7	SECURITY DETECTOR (SURFACE MOUNTED)	B	HEAT DETECTOR (135 DEGREE RATE OF RISE AND FIXED TEMPERATURE)
				END-OF-LINE RESISTOR

LOOP CHAIN ————————————————————————————————————	- STRUCTURE 1
T-BAR SUPPORT.	— FASTEN TO STRUCTURE NOT
CLOSED LINK CHAIN.	ROOF DECK (REFER TO NOTE
	BELOW) —JUNCTION BOX
	CONDUIT FEEDER—
MAIN T-BAR.	/
MAIN T-BAR. CROSS———————————————————————————————————	
LUMINAIRE — 1 8 1 1	
WHITE TY-WRAP TYPICAL	×
2 TY-WRAP	₹ ¥
TYPICAL 25%	
U-BOLT	- — AC90 "FIXTURE DROP"
50%	`
\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \	
U-BOLT U-BOLT	ACCO LOCK NUT TYPE
	AC90 LOCK NUT TYPE FITTING
* * * * * * * * * * * * * * * * * * *	
NOTES:	
1) IF STRUCTURE DOES NOT EXIST IMMEDIATELY ABOVE FIXTURE. PROVIDE UNIS STRUCTURE FOR FIXTURE SUSPENSION.	TRUT CHANNEL SPANNING ACROSS
2) INDICATES INDEPENDENT SUSPENSION TO STRUCTURE THAT IS TO BE INCLUDED	DED IN BASE TENDER TO SUIT
SEISMIC RESTRAINT REQUIREMENTS. 3) IF SEISMIC RESTRAINT REQUIREMENTS ARE NOT REQUIRED AS PART OF THE	SPECIFICATION, THEN THE
FIXTURES ARE TO BE SUSPENDED TO STRUCTURE USING THIS METHOD.	5. 255

SEISMIC RESTRAINT REQUIREMENTS.
3) IF SEISMIC RESTRAINT REQUIREMENTS ARE NOT REQUIRED AS PART OF THE SPECIFICATION, THEN THE
FIXTURES ARE TO BE SUSPENDED TO STRUCTURE USING THIS METHOD.

C-LUMINAIRE SUSPENSION DETAIL SCALE: NTS

ltem	Manufacturer/Catalog Number	Voltage	Lamp	Mounting	Description
A	LITHONIA CAT. #2BLT4-40L-ADP-GZ1-LP840	120V	LED 4312 LUMENS 4000K 30.5W	RECESSED	2'X4' (610mmX1220mm) SHALLOW VOLUMETRIC L FIXTURE C/W RIBBED FROSTED ACRYLIC LENS AND 0-10V DIMMING DRIVER.
В	LITHONIA CAT. #LBR6-AL01-SWW1-AR-LSS-MWD-MVOLT-UGZ-LBRGR78	120V	LED 1000 LUMENS 4000K 10.4W	RECESSED	6" (152.4mm) ROUND LED DOWNLIGHT C/W CLEAREFLECTOR, ADJUSTABLE LUMEN OUTPUT AND 0—1 DIMMING DRIVER.
С	LITHONIA CAT. #BLT4-40L-ADP-GZ1-LP840 C/W 1X4SMKSHP PAF	120V	LED 4049 LUMENS 4000K 32.1W	SURFACE	1'X4' (305mmX1220mm) SHALLOW VOLUMETRIC L FIXTURE C/W RIBBED FROSTED ACRYLIC LENS, 0- DIMMING DRIVER AND SURFACE MOUNT TROFFER H
E	LITHONIA CAT. #CSS-L48-AL03-MVOLT-SWW3-80CRI	120V	LED 3931 LUMENS 4000K 21.3W	SURFACE	4' (1220mm) SWITCHABLE LED STRIP LIGHT C/W DIFFUSE ACRYLIC LENS. SET FIXTURES TO "LOW" AND 4000K SETTINGS
F	LITHONIA CAT. #WL2-218L-GZ1-LP840	120V	LED 1889 LUMENS 4000K 17.5W	WALL MOUNTED	2' (610mm) WALL BRACKET AND SURFACE MOUNT LED C/W WHITE FINISH.
EXIT LIGHTS	BEGHELLI CAT. #QRLUMSWRMOLR STANPRO CAT. #RMXLOWHUDC AIMLITE CAT. #RPALUMWHTUNVDC	12V/120V	2.5 WATT (MAX.)AC 2 WATT (MAX.)DC	SURFACE	LED EXTRUDED ALUMINUM PICTOGRAM FIXTURE C/ GREEN FACE AND WHITE LEGEND, UNIVERSAL MOUNTING TO SUIT WALL, END OR CEILING AND MAXIMUM 63mm (2.5") THICKNESS.
	BEGHELLI CAT. #SR-1QLED & SR-2QLED STANPRO CAT. #N112V4WLJ & N213V4WLJ AIMLITE CAT. #RMSM1124WLJWHT & RMSM2124WLJWHT	12V	4W MR16	SURFACE	LED FIXTURE C/W COMPACT DESIGN WITH VARIABLE LIGHT PATTERN, WHITE COLOUR AND 360° ROTATION

NOTES: 1 EQUAL MANUFACTURERS ARE LISTED IN THE SPECIFICATION.
MANUFACTURERS/SUPPLIERS MUST CONFIRM THE PROPOSED
FIXTURE BY EMAIL WITH CONSULTANTS OFFICE A MINIMUM OF
ONE WEEK PRIOR TO TENDER CLOSE.

2 LED LUMEN VALUES QUOTED FOR FIXTURES ARE TO BE CONSIDERED MINIMUM, AND AS ABSOLUTE OR DELIVERED LUMENS. LUMEN VALUES SHOULD NOT EXCEED MORE THAN 10% OF SPECIFIED OUTPUT.

(3) EQUAL MANUFACTURERS FOR THIS FIXTURE MUST CONTACT THE CONSULTANTS OFFICE A MINIMUM OF 10 CALENDAR DAYS PRIOR TO TENDER CLOSE TO OBTAIN AN ELECTRONIC VERSION OF THE SITE PLAN. THEY MUST THEN PROVIDE PHOTOMETRIC ANALYSIS FOR THE EXTERIOR FIXTURE LAYOUT INDICATED USING THEIR PROPOSED FIXTURE.

EQUIPMENT SCHEDULE					
ITEM	DESCRIPTION	POWER REQUIREMENTS	HARD WIRED	RECEPTACLE	WIRING/REMARKS
A	EXISTING PROJECTOR	115/1/60	N/A	5-15R	EXISTING PROJECTOR TO BE RELOCATED BY THE G.C. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION.

The contractor shall verify all dimensions and report all errors and discrepancies to the Consultant before commencement of the work.

The drawings show general arrangement of services.

The drawings show general arrangement of services. Follow as closely as actual building construction will permit. Obtain approval for relocation of service from Consultant before commencement of the work. The drawings do not indicate all offsets fitting and accessories which may be required. Provide the same to meet the required conditions. Drawings and specifications, etc., prepared and issued by the consultant are the property of the consultant

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PROJECT:

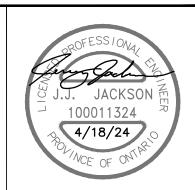
COLDWATER PUBLIC SCHOOL INTERIOR RENOVATIONS

3 JOHN ST. WEST , COLDWATER, ON SCDSB - COLDWATER PUBLIC SCHOOL

DRAWING:

KEYPLAN, LEGEND, SCHEDULES AND DETAILS





DOC CONTROL:

% COMPLETE:

BARRY BRYAN ASSOCIATES Architects Engineers Project Managers

Architects
Engineers
Project Managers
250 Water Street
Suite 201
Whitby, Ontario
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e-mail: bba@bba-archeng.com

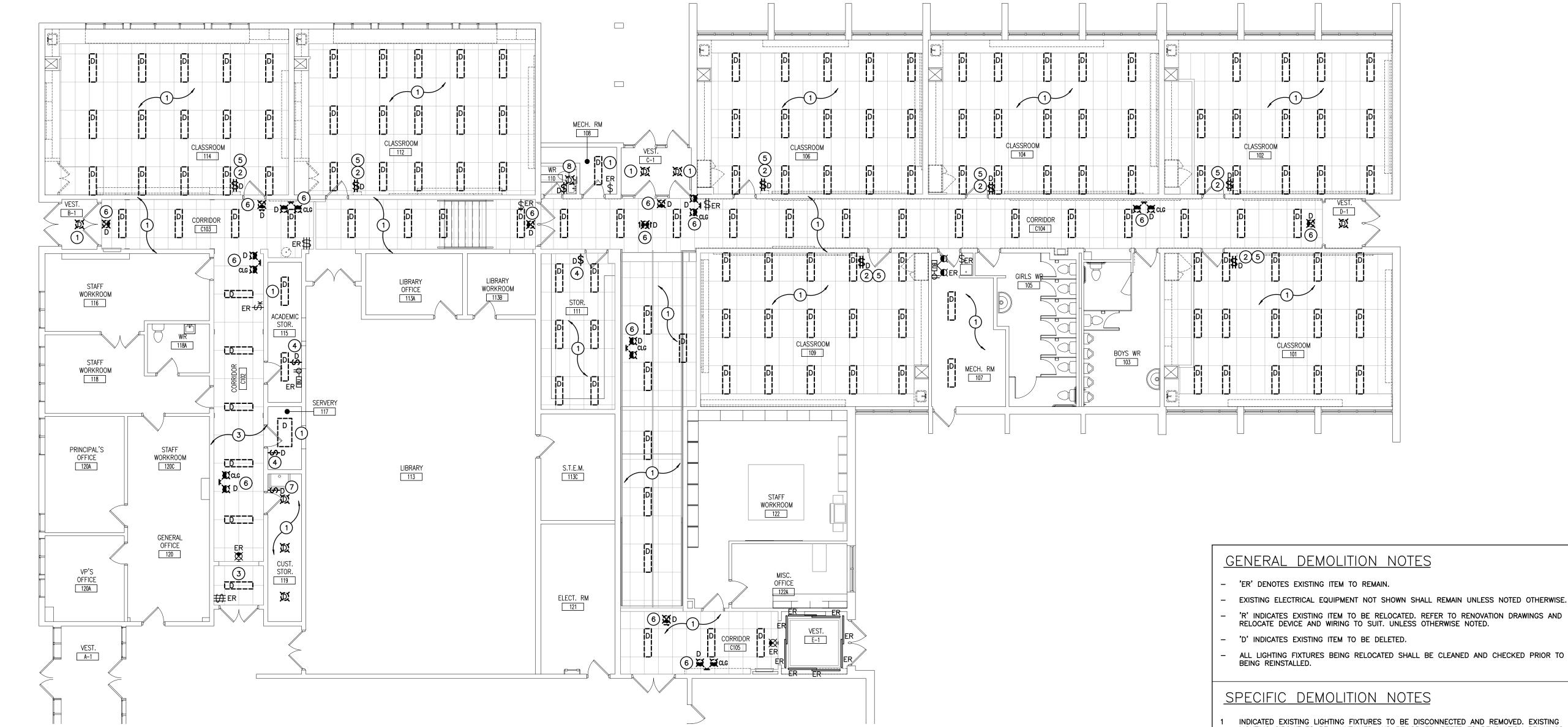
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PROJECT NO: **24009**

E101



PARTIAL GROUND FLOOR — LIGHTING DEMOLITION PLAN SCALE: 1:100

errors and discrepancies to the Consultant before commencement of the work.

The drawings show general arrangement of services. Follow as closely as actual building construction will permit. Obtain approval for relocation of service from Consultant before commencement of the work.

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The contractor shall verify all dimensions and report all



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District School Board

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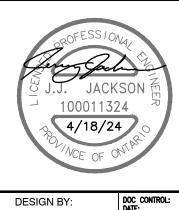
COLDWATER PUBLIC SCHOOL INTERIOR RENOVATIONS

3 JOHN ST. WEST , COLDWATER, ON SCDSB - COLDWATER PUBLIC SCHOOL

DRAWING:

PARTIAL GROUND FLOOR
- LIGHTING DEMOLITION
PLAN





BARRY BRYAN ASSOCIATES Architects Engineers Project Managers 250 Water Street

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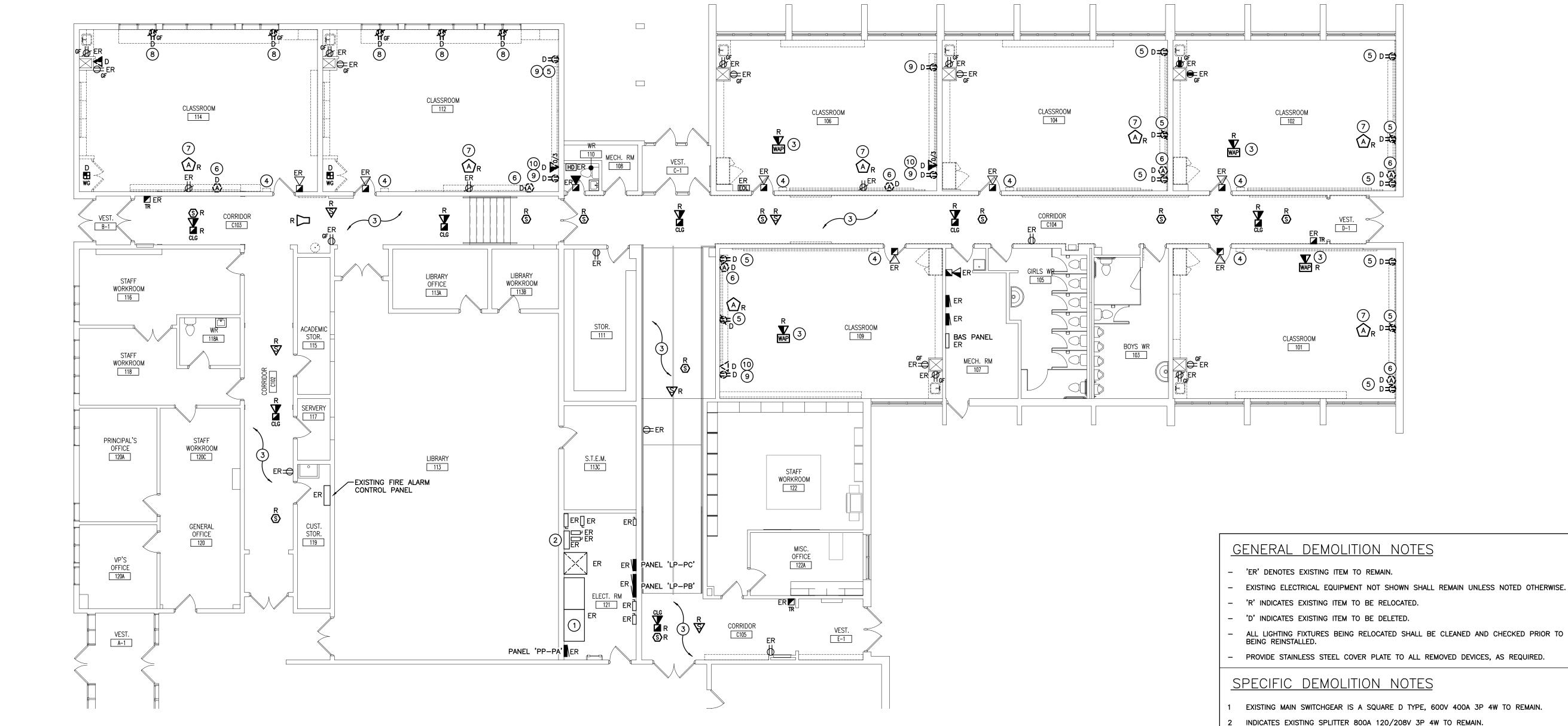
2 EXISTI

- LIGHTING CIRCUIT TO BE MAINTAINED AND REWORKED. REFER TO RENOVATION DRAWINGS.

 2 EXISTING SWITCHES TO BE REMOVED FROM EXISTING CLASSROOM CONTROL PANEL. PULL
- 2 EXISTING SWITCHES TO BE REMOVED FROM EXISTING CLASSROOM CONTROL PANEL. PULL LINE AND LOAD SIDE WIRING UP INTO ACCESSIBLE CEILING SPACE FOR CONNECTION TO NEW CONTROLS. MAINTAIN EXISTING BACKBOX AND CONDUIT FOR NEW DEVICES. REFER TO RENOVATION PLAN.
- 3 INDICATES CEILING MOUNTED DEVICES TO BE DISCONNECTED TO ALLOW FOR ACT CEILING. REFER TO RENOVATION PLAN.
- EXISTING SWITCH IS TO BE REMOVED. MAINTAIN EXISTING WIRING. REFER TO RENOVATION
- 5 EXISTING CLASSROOM CONTROL PANEL TO REMAIN.

COVERPLATE TO SUIT EXISTING BACKBOX.

- 6 EXISTING EMERGENCY DEVICE TO BE REMOVED. MAINTAIN EXISTING BACKBOX AND WIRING FOR RECONNECTION TO NEW DEVICE.
- 7 EXISTING DEVICE IS TO BE REMOVED COMPLETE. PULL WIRING UP TO ACCESSIBLE CEILING SPACE AND RE-WORK TO SUIT NEW CONTROLS. PROVIDE STAINLESS STEEL BLANK
- EXISTING LIGHTING FIXTURE AND BX WIRING TO BE REMOVED. PROVIDE NEW CONDUIT FOR CONNECTION TO NEW LIGHTING FIXTURE. THIS CONTRACTOR IS RESPONSIBLE TO PATCH AND PAINT WALL TO SUIT EXISTING.



PARTIAL GROUND FLOOR PLAN — POWER AND SYSTEMS DEMOLITION PLAN SCALE: 1:100

The contractor shall verify all dimensions and report all errors and discrepancies to the Consultant before commencement of the work.

The drawings show general arrangement of services.

Follow as closely as actual building construction will permit. Obtain approval for relocation of service from permit. Obtain approval for relocation of service from Consultant before commencement of the work.

The drawings do not indicate all offsets fitting and accessories which may be required. Provide the same to meet the required conditions.

Drawings and specifications, etc., prepared and issued by the consultant are the property of the consultant and must be returned at the completion of the project. These documents are not to be duplicated or copied without the consent of the Consultant.

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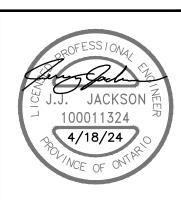
COLDWATER PUBLIC SCHOOL INTERIOR RENOVATIONS

3 JOHN ST. WEST, COLDWATER, ON SCDSB - COLDWATER PUBLIC SCHOOL

DRAWING:

PARTIAL GROUND FLOOR - POWER AND SYSTEMS **DEMOLITION PLAN**





DOC CONTROL:

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DESIGN BY:

DRAWN BY:

BARRY BRYAN ASSOCIATES Architects Engineers Project Managers

CHECKED BY: RV 250 Water Street Suite 201 Whitby, Ontario L1N 0G5

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PROJECT NO: DRAWING NO: **E202** 24009

EXISTING AV OUTLET TO BE REMOVED C/W SURFACE MOUNTED CONDUIT UP TO PROJECTOR.

FOR NEW ACT CEILING. REFER TO RENOVATION PLAN.

EXISTING WALL MOUNTED PROJECTOR TO BE RELOCATED BY G.C.

EXISTING DUPLEX RECEPTACLE MOUNTED HORIZONTAL ON MILLWORK ABOVE COUNTER TO BE REMOVED. REWORK EXISTING WIRING FOR CONNECTION TO NEW DEVICES. REFER TO RENOVATION PLAN FOR CONTINUATION.

3 INDICATES CEILING MOUNTED DEVICES TO BE DISCONNECTED AND RELOCATED TO ALLOW

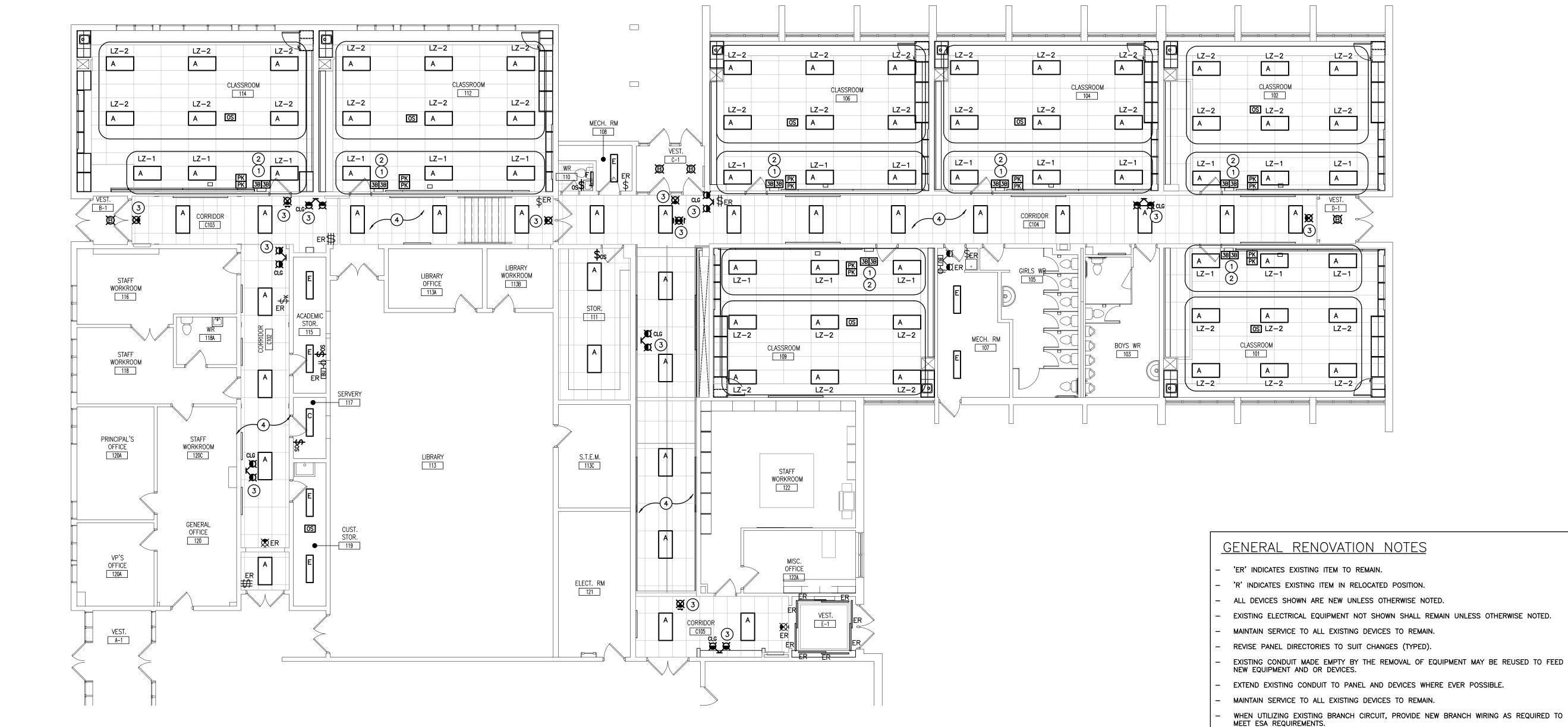
THE WALL TO BE PAINTED. REFER TO DETAIL B/E101 FOR ELECTRICAL DEVICES.

INDICATES EXISTING ELECTRICAL DEVICES IN CLASSROOM CONTROL PANEL TO BE DISCONNECTED TO ALLOW FOR THE PANEL TO BE REMOVED OFF THE WALL TO ALLOW FOR

INDICATES EXISTING DUPLEX RECEPTACLES TO BE REMOVED. PULL WIRING BACK TO ACCESSIBLE CEILING SPACE AND REWORK TO SUIT NEW DEVICES. REFER TO RENOVATION

EXISTING SURFACE MOUNTED RACEWAY C/W DUPLEX RECEPTACLE TO BE REMOVED. PULL WIRING BACK TO ACCESSIBLE CEILING SPACE AND REWORK TO SUIT NEW DEVICES. REFER TO RENOVATION PLAN.

10 EXISTING SURFACE MOUNTED RACEWAY C/W VOICE/DATA OUTLET TO BE REMOVED. WIRING TO BE PULL BACK TO CEILING SPACE.



PARTIAL GROUND FLOOR — LIGHTING RENOVATION PLAN SCALE: 1:100

errors and discrepancies to the Consultant before commencement of the work. The drawings show general arrangement of services.
Follow as closely as actual building construction will permit. Obtain approval for relocation of service from Consultant before commencement of the work.
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The contractor shall verify all dimensions and report all



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COLDWATER PUBLIC SCHOOL INTERIOR RENOVATIONS

3 JOHN ST. WEST, COLDWATER, ON SCDSB - COLDWATER PUBLIC SCHOOL

DRAWING:

PARTIAL GROUND FLOOR - LIGHTING RENOVATION PLAN



GROFESSIONAL TE
J.J. JACKSON A 100011324 4/18/24
4/18/24 O NCE OF OM PE

DRAWN BY:

CHECKED BY:

RV

BARRY ASSOC	
Architects Engineers Project Ma	ınager

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Tel: (905) 666-5252 Fax: (905) 666-5256 e-mail: bba@bba-archeng.com APRIL 2024 AS NOTED FILE:

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DRAWING NO: E301 24009

PROVIDE STAINLESS STEEL PLATE FOR ALL LIGHT SWITCHES BEING REMOVED.

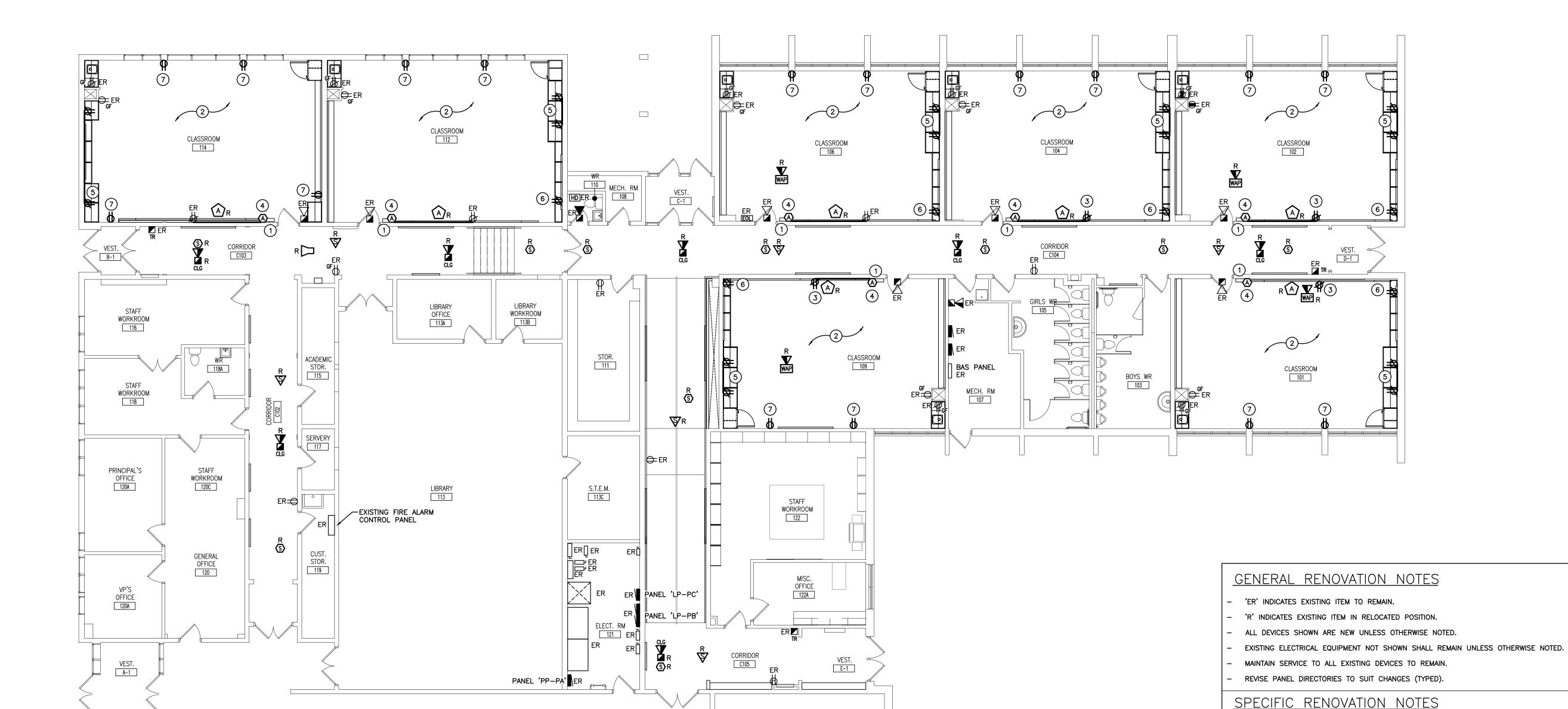
SPECIFIC RENOVATION NOTES

CONNECT NEW LIGHTING FIXTURES TO EXISTING LIGHTING CIRCUIT IN THIS AREA. WIRE LIGHT FIXTURES TO POWER PACKS AND CEILING MOUNTED OCCUPANCY SENSOR AND CONTROLS. REFER TO DETAIL A/E101.

PROVIDE ADEQUATE SUPPORT FOR ALL NEW FIXTURES MOUNTED TO U/S OF JOIST AS PER

ESA CODE. REMOVE ALL EXISTING SUPPORTS/HARDWARE NOT BEING USED.

- UTILIZE EXISTING BACKBOX TO MOUNT NEW DEVICE. PROVIDE DECORA STYLE PLATE TO SUIT EXISTING CLASSROOM CONTROL PANEL.
- RECONNECT EXISTING DEVICES AS INDICATED.
- CONNECT NEW LIGHTING FIXTURES TO EXISTING LIGHTING CIRCUIT IN THIS AREA. NEW LIGHTING FIXTURES ARE CONTROLLED AS PER EXISTING CONTROLS.



PARTIAL GROUND FLOOR PLAN — POWER AND SYSTEMS RENOVATION PLAN SCALE: 1:100

commencement of the work.

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PROJECT:

INDICATES RECONNECT EXISTING ELECTRICAL DEVICES LOCATED ON CLASSROOM CONTROL

CONNECT NEW DEVICES TO CIRCUIT MADE AVAILABLE DURING DEMOLITION. UPDATE PANEL

PROVIDE SURFACE MOUNTED NON-METALLIC RACEWAY LOW-PROFILE, WIREMOLD 800BAC MOUNTED VERTICALLY ABOVE WHITEBOARD FOR RELOCATED PROJECTOR, TERMINATE IN CEILING SPACE. PROVIDE DUPLEX RECEPTACLE AS INDICATED. PROVIDE ALL ACCESSORIES

PROVIDE SURFACE MOUNTED NON-METALLIC RACEWAY LOW-PROFILE. WIREMOLD 2300BAC

MOUNTED HORIZONTAL ABOVE WHITEBOARD, FROM PROJECTOR TO TWO-GANG DEEP BOX FOR AV ROUGH-IN. LOCATION OF AV OUTLET TO BE IN LINE WITH THE BOTTOM OF THE WHITEBOARD. PROVIDE ALL ACCESSORIES AND HARDWARE FOR A PROPER INSTALLATION.

PROVIDE SURFACE MOUNTED NON-METALLIC RACEWAY LOW-PROFILE. WIREMOLD 800BAC MOUNTED HORIZONTAL ABOVE COUNTER AND RUN UP TO ACCESSIBLE CEILING SPACE WITH RACEWAY (TO BE RUN BESIDE THE TACKBOARD). PROVIDE TWO DUPLEX RECEPTACLES AS

PROVIDE SURFACE MOUNTED NON-METALLIC RACEWAY LOW-PROFILE. WIREMOLD 800BAC MOUNTED VERTICALLY ABOVE COUNTER AND RUN UP TO ACCESSIBLE CEILING SPACE.

PROVIDE SURFACE MOUNTED NON-METALLIC RACEWAY LOW-PROFILE. WIREMOLD 800BAC MOUNTED AT REGULAR HEIGHT TO ACCESSIBLE CEILING SPACE. PROVIDE DUPLEX RECEPTACLE AS INDICATED. PROVIDE ALL ACCESSORIES AND HARDWARE FOR A PROPER

INDICATED. PROVIDE ALL ACCESSORIES AND HARDWARE FOR A PROPER INSTALLATION.

PROVIDE ONE DUPLEX RECEPTACLE AS INDICATED. PROVIDE ALL ACCESSORIES AND

DIRECTORIES AS REQUIRED.

AND HARDWARE FOR PROPER INSTALLATION.

HARDWARE FOR A PROPER INSTALLATION.

COLDWATER PUBLIC SCHOOL INTERIOR RENOVATIONS

3 JOHN ST. WEST, COLDWATER, ON SCDSB - COLDWATER PUBLIC SCHOOL

DRAWING:

PARTIAL GROUND FLOOR - POWER AND SYSTEMS RENOVATION PLAN





DOC CONTROL:

% COMPLETE:

BARRY BRYAN ASSOCIATES Architects Engineers Project Managers

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RV APRIL 2024 AS NOTED FILE:

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CHECKED BY:

PROJECT NO:

DRAWING NO: E302 24009

ELECTRICAL SPECIFICATION

GENERAL NOTES

- PROVIDE LABOUR MATERIAL AND EQUIPMENT REQUIRED TO PROVIDE A COMPLETE INSTALLATION WITH QUALITY WORKMANSHIP ACCEPTABLE TO THE OWNER, ARCHITECT AND CONSULTANT.
- .2 OBTAIN ALL PERMITS AND PAY ALL TAXES, FEES AND OTHER COSTS INCURRED WITH THIS WORK. FILE ALL PLANS. OBTAIN NECESSARY APPROVALS, CERTIFICATES AND INSPECTIONS. SUBMIT ALL FINAL CERTIFICATES TO THE CONSULTANT.
- .3 COMPLY WITH RULES AND RECOMMENDATIONS OF THE BOARD OF UNDERWRITERS, ELECTRICAL SAFETY AUTHORITY, THE CANADIAN STANDARDS ASSOCIATION AND ALL REQUIREMENTS OF THE LOCAL UTILITY.
- .4 VISIT THE SITE BEFORE SUBMITTING TENDERS TO EVALUATE ANY SITE CONDITIONS THAT MIGHT ARISE. INCLUDE ALL SITE CONDITIONS IN TENDER, EXTRAS WILL NOT BE ACCEPTED UNLESS BELIEVED TO BE REASONABLE BY THE OWNER AND
- .5 CUTTING AND PATCHING SHALL BE BY THE CONTRACTOR REQUIRING TO INSTALL THE SERVICE.
- .6 THE DRAWINGS ARE DIAGRAMMATIC, THE SERVICES SHALL BE INSTALLED TO CONSERVE HEADROOM AND INTERFERE AS LITTLE AS POSSIBLE WITH THE FREE USE OF THE SPACES THROUGH WHICH THEY PASS.
- .7 SUBMIT COPIES OF SHOP DRAWINGS AS PDF FILES VIA EMAIL FOR ALL MAJOR EQUIPMENT. THESE WILL BE REVIEWED BY THE CONSULTANT. RESUBMIT AS OFTEN AS MAY BE FOUND NECESSARY
- .8 PROVIDE ALL NECESSARY PROTECTION FOR FINISHED OR UNFINISHED WORK. ALL OPENINGS IN CONDUITS, DUCTS AND EQUIPMENT SHALL BE CAPPED TO ENSURE SERVICES ARE KEPT CLEAN WHEN NOT IN USE.
- .9 MAINTAIN INSURANCE TO FULLY PROTECT THE CONTRACTOR, OWNER AND CONSULTANT FROM ANY AND ALL CLAIMS SUCH AS UNDER THE WORKMEN'S COMPENSATION ACT, ETC. POST PROJECT NOTIFICATION AT THE SITE IN ACCORDANCE WITH THE MINISTRY
- .10 PROVIDE STRUCTURAL SUPPORTS, PLATFORMS, SUPPORTING RODS, HANGERS, INSERTS AND BRACKETS FOR EQUIPMENT AND SERVICES. DO NOT SUPPORT SERVICES FROM STEEL DECK.
- .11 INSTRUCT THE OWNER'S STAFF IN THE CARE, MAINTENANCE AND OPERATION OF THE SYSTEMS.
- .12 WARRANTY ALL LABOUR, MATERIAL AND EQUIPMENT FOR A PERIOD OF YEARS (2) YEAR AFTER FINAL ACCEPTANCE OF SYSTEM.
- .13 COORDINATE WITH OTHER CONTRACTORS INSTALLING EQUIPMENT OR MATERIAL AND ARRANGE EQUIPMENT IN PROPER RELATION WITH APPARATUS OF ALL OTHER TRADES.
- .14 PROVIDE LAMICOID TAGS FOR IDENTIFICATION OF NEW EQUIPMENT ADDED.
- .15 MOUNTING HEIGHTS SHALL BE AS FOLLOWS FROM FINISHED FLOOR TO CENTERLINE OF DEVICE/EQUIPMENT (UNLESS OTHERWISE
- SWITCHES, DIMMERS AND SPEED CONTROLLERS: 1100mm (44") WALL RECEPTACLES:
- GENERAL: 400mm (16") ABOVE TOP OF COUNTERS: 100mm (4")
- VOICE/DATA OUTLETS: 400mm (16") FIRE ALARM SIGNAL DEVICES: 2250mm (7'-6")
- FIRE ALARM STROBES: 2250mm (7'-6")
- .16 ALL AREAS NOT AFFECTED BY RENOVATION OR DEMOLITION SHALL REMAIN AS PRESENTLY INSTALLED UNLESS OTHERWISE NOTED.
- .17 ALL EXISTING ELECTRICAL DEVICES, OUTLET BOXES, ETC., NOT SHOWN ON DRAWINGS OR MENTIONED IN THE FOLLOWING NOTES AND INSTALLED IN WALLS SLATED FOR DEMOLITION, SHALL BE DISCONNECTED AND REMOVED COMPLETELY IN ALL RESPECTS.
- .18 AS-BUILT DRAWINGS & CLOSEOUT DOCUMENTATION.
- 18.1. ONE (1) USB DRIVE WITH: 18.1.1. AUTOCAD DRAWINGS - RECORD
- PDF DRAWINGS (INDIVIDUAL PDF DRAWINGS, NOT COMBINED INTO ONE PDF) RECORD
- SPECIFICATION BOOK ADDENDUM
- SITE INSTRUCTIONS
- CHANGE ORDERS MAINTENANCE MANUALS (DIGITAL FORMAT - INDIVIDUAL DOCUMENTS/DIVISIONS, NOT COMBINED)
- 18.1.7.1. CONTACT LISTS 18.1.7.2. SHOP DRAWINGS
- WARRANTIES 18.1.7.4. GUARANTEES
- COLOUR SCHEDULE 18.1.7.5.
- DOOR HARDWARE SCHEDULE 18.1.7.7.
- OPERATING AND MAINTENANCE INSTRUCTIONS REPORTS (FIRE ALARM, EMERGENCY SYSTEMS, ETC.)
- 18.2. SUBMIT APPROVED COMPLETED REPRODUCIBLE PAPER AS-BUILT DRAWINGS AS WELL AS A SCAN PDF OF EACH DRAWING FILE ON A USB STICK (NOTE PDF'S CANNOT BE COMBINED).
- 18.3 TWO (2) PRINTED HARD BINDERS OF MAINTENANCE MANUALS, AS WELL AS A PDF FILE OF THE ENTIRE APPROVED MANUAL
- .19 CONTRACTOR SHALL PROVIDE RED LINE RECORD DRAWINGS OF EACH AND EVERY ELECTRICAL DRAWING FOR DEI CONSULTING ENGINEERS TO CAD THE RECORD DRAWINGS. THE CAD DRAWING FILES WILL BE PROVIDED TO THE OWNER AS PART OF THE
- MAINTENANCE MANUALS. .20 THE CONTRACTOR IS TO DETERMINE GENERAL INSPECTION FEES WITH THE ELECTRICAL SAFETY AUTHORITY AND INCLUDE AS PART
- .21 A SUBMISSION HAS BEEN MADE (IF REQUIRED BY THIS SCOPE OF PROJECT) BY THE CONSULTANT TO THE ELECTRICAL SAFETY AUTHORITY FOR REVIEW OF THIS PROJECT. THE PAYMENT OF THE REQUIRED REVIEW COSTS WILL BE COORDINATED BY THE CONSULTANT. A COPY OF THE ELECTRICAL SAFETY AUTHORITY REVIEW REPORT WILL BE FORWARDED TO THE SUCCESSFUL CONTRACTOR FOR INFORMATION AND ACTION.

BASIC MATERIALS

- .1 JUNCTION, OUTLET AND PULL BOXES MUST BE APPROVED TO SUIT INSTALLATION METHODS AND ENVIRONMENT.
- .2 CONDUIT MUST BE CONCEALED UNLESS INSTALLED IN SERVICE OR STORAGE ROOMS.
- .3 CONDUIT MUST BE INSTALLED PARALLEL AND PERPENDICULAR TO BUILDING LINES IN A NEAT AND WORKMANLIKE MANNER.
- .4 ALL FEEDER AND BRANCH CIRCUIT WIRING MUST BE COPPER, T90 RATING/STYLE RUN IN EMT CONDUIT WITH INTERNAL INSULATED GREEN GROUND WIRE UNLESS NOTED OTHERWISE. MINIMUM WIRE SIZE SHALL BE #12 AND MINIMUM CONDUIT SIZE SHALL BE
- .5 AC90 CABLE MAY BE USED FOR BRANCH CIRCUIT WIRING IN STEEL STUD WALLS AND "DROPS" IN T-BAR CEILING AREAS TO LIGHT FIXTURES AND FIRE ALARM DEVICES. LENGTH OF DROP MUST BE LIMITED TO 8'-0" (2400mm).
- .6 WHERE DEVICES ARE TO BE INSTALLED ON EXISTING WALLS IN FINISHED AREA, WHICH CANNOT BE FISHED, INSTALL FEEDS IN A SURFACE METAL RACEWAY EQUAL TO WIREMOLD V700 SERIES.
- .7 COLOUR CODE CONDUITS, BOXES AND METALLIC SHEATHED CABLES.
- .8 CODE WITH PLASTIC TAPE OR PAINT AT POINTS WHERE CONDUIT OR CABLE ENTERS WALL, CEILING, OR FLOOR, AND AT 15m(45')
- .9 COLOUR BANDS MUST BE 25mm(1") WIDE AND CODED AS FOLLOWS FOR NOTED SYSTEMS. (WRITER TO EDIT)

SYSTEM UP TO 208V VOICE SYSTEM GREEN DATA SYSTEM ORANGE FIRE ALARM

.10 THIS CONTRACTOR MUST PAINT ALL SYSTEM JUNCTION BOXES AND COVERS IN CONFORMANCE WITH THE ABOVE SCHEDULE.

DRAW BREAKDOWN

- .1 THIS CONTRACTOR MUST SUBMIT A BREAKDOWN OF THE TENDER PRICE INTO CLASSIFICATIONS TO THE SATISFACTION OF THE CONSULTANT, WITH THE AGGREGATE OF THE BREAKDOWN TOTALING THE TOTAL CONTRACT AMOUNT. EACH ITEM MUST BE BROKEN OUT INTO MATERIAL AND LABOUR COSTS. PROGRESS CLAIMS, WHEN SUBMITTED ARE TO BE ITEMIZED AGAINST EACH ITEM OF THE DRAW BREAKDOWN. THIS SHALL BE DONE IN TABLE FORM SHOWING CONTRACT AMOUNT, AMOUNT THIS DRAW, TOTAL TO DATE, % COMPLETE AND BALANCE.
- .2 BREAKDOWN SHALL BE AS FOLLOWS:
- PERMITS AND FEES MOBILIZATION (MAXIMUM 1%)
- DEMOLITION BRANCH CONDUITS
- BRANCH WIRING LIGHTING FIXTURES
- FIRE ALARM SYSTEM
- WIRING FOR MECHANICAL EQUIPMENT COMMISSIONING (MINIMUM 3%)
- .3 THE BREAKDOWN MUST BE APPROVED BY THE CONSULTANT PRIOR TO SUBMISSION OF THE FIRST DRAW
- .4 BREAKDOWNS NOT COMPLYING TO THE ABOVE WILL NOT BE APPROVED.
- .5 BREAKDOWN MUST INDICATE TOTAL CONTRACT AMOUNT.
- .6 MOBILIZATION AMOUNT MAY ONLY BE DRAWN WHEN ALL REQUIRED SHOP DRAWINGS HAVE BEEN REVIEWED BY THE CONSULTANT.

SHOP DRAWINGS AND PRODUCT DATA

- .1 FURNISH COMPLETE CATALOG DATA FOR MANUFACTURED ITEMS OF EQUIPMENT TO BE USED IN THE WORK TO CONSULTANT FOR REVIEW WITHIN 30 DAYS AFTER AWARD OF CONTRACT.
- .2 IF MATERIAL OR EQUIPMENT IS NOT AS SPECIFIED OR SUBMITTAL IS NOT COMPLETE, IT WILL BE REJECTED BY CONSULTANT.

- .3 ADDITIONAL SHOP DRAWINGS REQUIRED BY THE CONTRACTOR FOR MAINTENANCE MANUALS, SITE COPIES ETC., SHALL BE PHOTOCOPIES OF THE "REVIEWED" SHOP DRAWINGS. ALL COSTS TO PROVIDE ADDITIONAL COPIES OF SHOP DRAWINGS SHALL BE BORNE BY THE CONTRACTOR.
- .4 PARTIAL SUBMITTALS WILL NOT BE ACCEPTED.
- .5 CATALOG DATA OR SHOP DRAWINGS FOR EQUIPMENT, WHICH ARE NOTED AS BEING REVIEWED BY CONSULTANT OR HIS ENGINEER SHALL NOT SUPERSEDE CONTRACT DOCUMENTS.
- .6 REVIEW COMMENTS OF CONSULTANT SHALL NOT RELIEVE THIS DIVISION FROM RESPONSIBILITY FOR DEVIATIONS FROM CONTRACT DOCUMENTS UNLESS CONSULTANT'S ATTENTION HAS BEEN CALLED TO SUCH DEVIATIONS IN WRITING AT TIME OF SUBMISSION, NOR SHALL THEY RELIEVE THIS DIVISION FROM RESPONSIBILITY FOR ERRORS IN ITEMS SUBMITTED.
- .7 CHECK WORK DESCRIBED BY CATALOG DATA WITH CONTRACT DOCUMENTS FOR DEVIATIONS AND ERRORS.
- .8 SHOP DRAWINGS AND PRODUCT DATA SHALL SHOW:
 - MOUNTING ARRANGEMENTS. OPERATING AND MAINTENANCE CLEARANCES. E.G. ACCESS DOOR SWING SPACES.
- .9 SHOP DRAWINGS AND PRODUCT DATA SHALL BE ACCOMPANIED BY
- DETAILED DRAWINGS OF BASES, SUPPORTS, AND ANCHOR BOLTS.
- MANUFACTURER TEST DATA WHERE REQUESTED. MANUFACTURER TO CERTIFY AS TO CURRENT MODEL PRODUCTION.

4 CERTIFICATION OF COMPLIANCE TO APPLICABLE CODES.

INDICATION THAT THE COMMENTS HAVE BEEN COMPLIED WITH.

- .10 STATE SIZES, CAPACITIES, BRAND NAMES, MOTOR HP, ACCESSORIES, MATERIALS, GAUGES, DIMENSIONS, AND OTHER PERTINENT
- INFORMATION. LIST ON CATALOG COVERS PAGE NUMBERS OF SUBMITTED ITEMS. UNDERLINE APPLICABLE DATA. .11 ONCE THESE SHOP DRAWINGS ARE RETURNED "REVIEWED" OR "REVIEWED AS NOTED" FABRICATION, PRODUCTION, AND INSTALLATION MAY COMMENCE. NOTE: IF A SHOP DRAWING IS RETURNED "REVIEWED AS NOTED" THIS CONTRACTOR MUST PROVIDE WRITTEN
- .12 A PARTIAL LIST OF SHOP DRAWINGS INCLUDES:
- FIRE ALARM SYSTEM LUMINAIRES
- STARTERS, CONTACTORS, AND CONTROL DEVICES
- FIRESTOPPING MATERIALS SURFACE RACEWAYS
- WIRING DEVICES CABLE MANAGEMENT SYSTEM .8 OCCUPANCY SENSORS

FIRESTOPPING

- .1 FIRESTOPPING MATERIAL AND INSTALLATION WITHIN ANNULAR SPACE BETWEEN CONDUITS, DUCTS, AND ADJACENT FIRE SEPARATION.
- .2 PROVIDE MATERIALS AND SYSTEMS CAPABLE OF MAINTAINING EFFECTIVE BARRIER AGAINST FLAME, SMOKE, AND GASES.
- .3 COMPLY WITH THE REQUIREMENTS OF CAN4-S115-M35, AND DO NOT EXCEED OPENING SIZED FOR WHICH THEY HAVE BEEN
- .4 SYSTEMS TO HAVE AN F OR FT RATING (AS APPLICABLE) NOT LESS THAN THE FIRE PROTECTION RATING REQUIRED FOR CLOSURES IN A FIRE SEPARATION. PROVIDE "FIREWRAP" BLANKET AROUND SERVICES PENETRATING FIREWALLS.
- .5 EXTENT OF BLANKET MUST CORRESPOND TO ULC RECOMMENDATIONS. IN GENERAL WRAP INDIVIDUAL CONDUITS WITH APPROVED FIREWRAP MATERIALS ON EACH SIDE OF FIREWALL. REFER TO ARCHITECTURAL DRAWINGS FOR FT RATINGS. PROVIDE 1 AND/OR 2 LAYERS OF FIREWRAP WITH TRANSVERSE AND LONGITUDINAL SEAMS OVERLAPPED AND/OR BUTTED (SECOND LAYER OFFSET FROM FIRST LAYER). CUT EDGES ARE TO BE SEALED WITH ALUMINUM FOIL TAPE. PROVIDE 50 MM STAINLESS STEEL BANDING AT 200 MM INTERVALS. INSTALL FIREWRAP TO MANUFACTURERS' RECOMMENDATIONS FOR PROPER FT RATING. ACCEPTABLE MANUFACTURERS ARE 3M FIREMASTER DUCTWRAP OR APPROVED EQUAL.
- .6 THE FIRESTOPPING MATERIALS ARE NOT TO SHRINK, SLUMP OR SAG AND BE FREE OF ASBESTOS, HALOGENS AND VOLATILE SOLVENTS.
- .7 FIRESTOPPING MATERIALS ARE TO CONSIST OF A COMPONENT SEALANT APPLIED WITH A CONVENTIONAL CAULKING GUN AND
- .8 FIRESTOP MATERIALS ARE TO BE CAPABLE OF RECEIVING FINISH MATERIALS IN THOSE AREAS, WHICH ARE EXPOSED AND
- SCHEDULED TO RECEIVE FINISHES. .9 FIRESTOPPING SHALL BE INSPECTED AND APPROVED BY LOCAL AUTHORITY PRIOR TO CONCEALMENT OR ENCLOSURE.
- .10 INSTALL MATERIAL AND COMPONENTS IN ACCORDANCE WITH ULC CERTIFICATION, MANUFACTURERS INSTRUCTIONS AND LOCAL
- .11 SUBMIT PRODUCT LITERATURE AND INSTALLATION MATERIAL ON FIRESTOPPING IN SHOP DRAWING AND PRODUCT DATA MANUAL
- RECTORSEAL CORPORATION (METACAULK)
- PROSET SYSTEMS 3М

STI FIRESTOP

- NOTE: FIRE STOP MATERIAL MUST CONFORM TO REQUIREMENTS OF LOCAL AUTHORITIES HAVING JURISDICTION. CONTRACTOR TO CONFIRM PRIOR TO APPLICATION AND ENSURE MATERIAL USED IS COMPATIBLE WITH THAT USED BY OTHER TRADES ON SITE.
- .13 ENSURE FIRESTOP MANUFACTURER REPRESENTATIVE PERFORMS ON SITE INSPECTIONS AND CERTIFIES INSTALLATION. SUBMIT INSPECTION REPORTS/CERTIFICATION AT TIME OF SUBSTANTIAL COMPLETION.

LIGHTING SYSTEMS

FIXTURES ARE TO BE PROVIDED AS NOTED IN THE LIGHT FIXTURE SCHEDULE C/W THE FOLLOWING FEATURES:

- FIXTURE LED'S MUST BE TESTED IN CONFORMANCE WITH IESNA LM80 STANDARD.
- LED'S MUST BE SELECTED USING A BINNING ALGORITHM TO ENSURE COLOUR AND LUMEN OUTPUT OF A GIVEN FIXTURE ARE CONSISTENT, AS WELL AS MEET OR SURPASS ANSI C78.377 SPECIFICATION FOR THE RATED LIFETIME OF THE
- FIXTURE. COLOUR ACCURACY BETWEEN PRODUCTS MUST BE WITHIN A 2-STEP MACADAM ELLIPSE.
 - .3 LUMINAIRES MUST BE TESTED TO IESNA LM79 BY AN INDEPENDENT APPROVED LABORATORY.
 - LUMINAIRES MUST BE TESTED PRIOR TO SHIPPING. LUMINAIRES MUST BE ULC CERTIFIED AND APPROVED FOR USE IN CANADA.
 - FIXTURES MUST MAINTAIN A MINIMUM OF 90% OF THEIR INITIAL LIGHT OUTPUT FOR 60,000 HOURS. SUBMIT TEST RESULTS UPON REQUEST.
 - LUMEN VALUES INDICATED FOR FIXTURES IN THE PROJECT DOCUMENTS ARE TO BE CONSIDERED AS 'ABSOLUTE' OR 'DELIVERED' VALUES.

.2 FIXTURE INSTALLATION .1 LOCATE AND INSTALL LUMINAIRES AS INDICATED.

- FIXTURE SURFACE MOUNTED TO SUSPENDED CEILINGS MUST BE SECURED THROUGH CEILING ASSEMBLY TO CROSS MEMBER SUPPORTS. THESE SUPPORTS ARE TO BE STEEL CHANNELS OR ANGLES INDEPENDENTLY SECURED TO STRUCTURE USING #12 "JACK" CHAIN. EACH CHAIN MUST BE SECURED SO NO FIXTURE WEIGHT IS ADDED TO THE CEILING ASSEMBLY.
- .3 PLASTER FRAMES/FLANGE KITS MUST BE PROVIDED BY THIS DIVISION FOR FIXTURES RECESSED IN PLASTER AND/OR DRYWALL CEILINGS.
- WHERE SPECIFIED, FIXTURES TO BE CHAIN HUNG SHALL BE HUNG USING "JACK" CHAIN WITH A CAPACITY TO SUIT THE FIXTURE WEIGHT. BRANCH CIRCUIT WIRING FEEDING THESE FIXTURES SHALL BE AC90 CABLE "TY-WRAPPED" AT 36" (900mm) INTERVALS ALONG LENGTH OF DROP. FINAL APPEARANCE MUST BE NEAT AND PROFESSIONAL.
- .5 CONNECT LIGHTING FIXTURES TO LIGHTING CIRCUITS AS INDICATED OR AS NOTED ON DRAWING.
- .6 ALIGN LUMINAIRES MOUNTED IN CONTINUOUS ROWS TO FORM STRAIGHT UNINTERRUPTED LINES.
- .7 ALIGN LUMINAIRES MOUNTED INDIVIDUALLY PARALLEL OR PERPENDICULAR TO BUILDING GRID LINES.
- .8 ALL LIGHTING BRANCH CIRCUITS ARE TO BE PROVIDED WITH SEPARATE NEUTRALS
- .9 ALTERNATE LIGHTING FIXTURES: COOPER LIGHTING AND SIGNIFY. APPROVED EQUAL
- .1 ALL LED FIXTURES AND DRIVERS ARE TO BE COMPLETE WITH A 5 YEAR GUARANTEE. .2 THE LABOUR REQUIRED TO REPLACE THESE DRIVERS MUST BE INCLUDED IN THE ABOVE GUARANTEE
- .4 TESTING/CERTIFICATION
 - AT THE COMPLETION OF THE PROJECT AND IN THE PRESENCE OF THE CONSULTANT, TEST ALL EXIT AND EMERGENCY
 - FIXTURES. ON COMPANY LETTERHEAD, THE CONTRACTOR IS TO PREPARE A CHART INDICATING:
 - DATE EQUIPMENT TYPE
 - CERTIFICATION OF CORRECT CONNECTION
 - CERTIFICATION OF CORRECT OPERATION DURATION OF TEST IN MINUTES (MINIMUM 30) ACTUAL PERIOD OF TESTING (TIME OF DAY)

EMEGENCY LIGHTING AND EXIT/RUNNING MAN SYSTEMS

THE VOLTAGE RATING EXCEEDS 250V: OR

- .1 EMERGENCY LIGHTING ARE TO BE PROVIDED AS NOTED IN THE LIGHT FIXTURE SCHEDULE C/W THE FOLLOWING FEATURES:
- .1 UNIT EQUIPMENT FOR EMERGENCY LIGHTING SHALL CONFORM TO CSA C22.2 No. 141 AND BMEC COMPLIANCE TO THE O.B.C .2 INSTALLATION
- 1 MOUNTING EQUIPMENT: EACH UNIT EQUIPMENT SHALL BE MOUNTED WITH THE BOTTOM OF THE ENCLOSURE NOT LESS THAN 2M ABOVE THE FLOOR, WHEREVER APPLICABLE.
- .2 SUPPLY CONNECTIONS: RECEPTACLES TO WHICH UNIT EQUIPMENT IS TO BE CONNECTED SHALL BE NOT LESS THAN 2.5M ABOVE THE FLOOR, WHERE PRACTICABLE, AND SHALL BE NOT MORE THAN 1.5M FROM THE LOCATION OF THE UNIT EQUIPMENT. UNIT EQUIPMENT SHALL BE PERMANENTLY CONNECTED TO THE SUPPLY IF:
- THE MARKED INPUT RATING EXCEEDS 24A. IF THE RATING DOES NOT EXCEEDS a) OR b), THE UNIT EQUIPMENT SHALL BE PERMITTED TO BE CONNECTED USING THE FLEXIBLE CORD AND ATTACHMENT PLUG SUPPLIED WITH THE EQUIPMENT.
- .3 UNIT EQUIPMENT SHALL BE INSTALLED IN SUCH A MANNER THAT IT WILL BE AUTOMATICALLY ACTUATED UPON FAILURE OF THE POWER SUPPLY TO THE NORMAL LIGHTING IN THE AREA COVERED BY THAT UNIT EQUIPMENT. .3 EXIT/RUNNING MAN SIGNS:
- .1 WHERE EXIT/RUNNING MAN SIGNS ARE CONNECTED TO AN ELECTRICAL CIRCUIT, THAT CIRCUIT SHALL BE USED FOR NO OTHER
- .2 EXIT/RUNNING MAN SHALL BE ILLUMINATED BY AN EMERGENCY POWER SUPPLY WHERE EMERGENCY LIGHTING IS REQUIRED BY IHF O'R'
- 1 PROVIDE A WRITTEN GUARANTEE THAT THE BATTERY FOR EMERGENCY LIGHTING IS QUARANTEED AGAINST DEFECTS IN MATERIAL AND WORKMANSHIP FOR A PERIOD OF TEN (10) YEARS. WITH NO-CHARGE REPLACEMENT DURING THE FIRST YEAR AND 9-YEAR-PRO-RATED CHARGE, FROM THE DATE OF THE FINAL CERTIFICATE OF COMPLETION.
- .2 5-YEAR WARRANTY ON ALL LED EMERGENCY HEADS.

.3 COMMISSIONING IS REQUIRED BY THIS CONTRACTOR. THIS CONTRACTOR TO INDICATE A LETTER TO INDICATE THAT THE

VOICE/DATA NETWORK INSTALLATIONS

.4 GUARANTEE:

THE SCOPE OF WORK FOR THIS SYSTEM SHALL BE AS FOLLOWS:

THIS CONTRACTOR IS RESPONSIBE ON ALL THE ROUGH-IN AS NOTED ON THE DRAWINGS.

THIS CONTRACTOR IS RESPONSIBE ON ALL THE ROUGH-IN AS NOTED ON THE DRAWINGS.

EMERGENCY BATTERY UNIT CAN WITHSTAND A 30MIN. POWER FAILURE.

SECURITY SYSTEM

.3 ALL REQUIRE WIRING IS BY THE BOARD.

ALL REQUIRE WIRING IS BY THE BOARD.

THE SCOPE OF WORK FOR THIS SYSTEM SHALL BE AS FOLLOWS:

commencement of the work The drawings show general arrangement of services. Follow as closely as actual building construction will permit. Obtain approval for relocation of service from Consultant before commencement of the work.

The drawings do not indicate all offsets fitting and accessories which may be required. Provide the same to meet the required conditions. Drawings and specifications, etc., prepared and issued by the consultant are the property of the consultant and must be returned at the completion of the project. These documents are not to be duplicated or copied without the consent of the Consultant.

The contractor shall verify all dimensions and report al

errors and discrepancies to the Consultant before

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ISSUED FOR PERMIT & TENDER | 24/04/18 | RV

DATE BY

24/03/08 RV

NO. ISSUES

ISSUED FOR REVIEW

NO.	REVISIONS	DATE	BY

PROJECT:

COLDWATER PUBLIC SCHOOL INTERIOR RENOVATIONS

3 JOHN ST. WEST, COLDWATER, ON SCDSB - COLDWATER PUBLIC SCHOOL

DRAWING:

ELECTRICAL SPECIFICATIONS PAGE 1 OF 2



100011324 4/18/24 BARRY BRYAN DESIGN BY **ASSOCIATES** DRAWN BY:

CHECKED BY:

APRIL 2024

AS NOTED

RV

FILE:

JACKSON

DOC_CONTROL:

% COMPLETE:

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PROJECT NO: 24009

E401

DRAWING NO:

WIRING DEVICES

- .1 GENERAL PURPOSE AC SWITCHES MUST CONFORM TO CSA C22.2 NO. 111 (LATEST EDITION).
- .2 15 OR 20 A, 120 V, SINGLE POLE, DOUBLE POLE, THREE-WAY, OR FOUR-WAY SWITCHES.
- .3 MANUALLY-OPERATED GENERAL PURPOSE AC SWITCHES WITH THE FOLLOWING FEATURES:
 .1 TERMINAL HOLES APPROVED FOR NO. 10 AWG WIRE.
- .2 SILVER ALLOY CONTACTS..3 UREA OR MELAMINE MOLDING FOR PARTS SUBJECT TO CARBON TRACKING.
- .4 SUITABLE FOR BACK AND SIDE WIRING.
- .5 TOGGLE COLOUR AS SELECTED BY ARCHITECT.
- .4 ACCEPTABLE MATERIALS:
 .1 SINGLE POLE: HUBBELL CAT. #1201 OR EQUAL
- .5 INSTALL SINGLE THROW SWITCHES WITH HANDLE IN "UP" POSITION WHEN SWITCH IS CLOSED.
- .6 INSTALL SWITCHES IN GANG TYPE OUTLET BOX WHEN MORE THAN ONE SWITCH IS REQUIRED IN ONE LOCATION.
- .7 RECEPTACLES, PLUGS, AND OTHER SIMILAR WIRING DEVICES MUST CONFORM TO CSA C22.2 NO. 42 (LATEST EDITION).
- .8 DUPLEX TAMPER RESISTANT RECEPTACLES, CSA TYPE 5-15 R, 125 V, 15 A, U GROUND, WITH THE FOLLOWING FEATURES: .1 UREA MOLDED HOUSING WITH COLOUR AS SELECTED BY ARCHITECT.
- .2 SUITABLE FOR NO. 10 AWG FOR BACK AND SIDE WIRING.
 .3 BREAK-OFF LINKS FOR USE AS SPLIT RECEPTACLES.
- .4 EIGHT BACK WIRED ENTRANCES, FOUR SIDE WIRING SCREWS.
 .5 TRIPLE WIRE CONTACTS AND RIVETED GROUNDING CONTACTS.
- .9 ACCEPTABLE MATERIALS:

T-SLOT RECEPTACLES: HUBBELL CAT. #HBL5352

- STANDARD DUPLEX RECEPTACLE: HUBBELL CAT. #HBL5252CN

 TO STANDARD DUPLEX RECEPTACLE: HUBBELL CAT. #HBL2152 COMPLETE WITH DECORA STYLE COVERPLATE TO SUIT SPECIFICATION BELOW.

 TO STANDARD DUPLEX RECEPTACLE: HUBBELL CAT. #HBL2152 COMPLETE WITH DECORA STYLE COVERPLATE TO SUIT SPECIFICATION BELOW.

 TO STANDARD DUPLEX RECEPTACLE: HUBBELL CAT. #GF20X COMPLETE WITH DECORA STYLE COVERPLATE TO SUIT SPECIFICATION BELOW.
- .6 DECORA STYLE T-SLOT RECEPTACLE: HÜBBELL CAT. #HBL2162 COMPLETE WITH DECORA STYLE COVERPLATE TO SUIT SPECIFICATION BELOW.
 .6 DRYER RECEPTACLE: HUBBELL CAT. #HBL9430A
- .10 OTHER RECEPTACLES WITH AMPACITY AND VOLTAGE AS INDICATED. COLOUR BY ARCHITECT.
- .11 ACCEPTABLE ALTERNATE MANUFACTURERS INCLUDE:
- PASS & SEYMOUR
- .12 WALL MOUNTED OCCUPANCY SENSORS (DUAL TECHNOLOGY), OCCUPANCY SENSORS LINE VOLTAGE SHALL BE EITHER:
- .1 GREENGATE #OLW-DT-MV-N-W-WHITE .2 SENSOR SWITCH CAT. #WSXA PDT W

NOTE: PROGRAM OCCUPANCY SENSOR FOR A 30MIN. OFF DELAY.

- .13 CEILING MOUNTED OCCUPANCY SENSOR LOW VOLTAGE WITH POWER PACK.
- .1 SENSOR SWITCH CAT.# CM PDT 10 W/ POWER PACK PP20 AS NOTED ON DRAWING.
- .14 CEILING MOUNTED OCCUPANCY SENSOR LOW VOLTAGE WITH POWER PACK AND CONTROL (nLIGHT SYSTEM SPECIFIED ON DRAWING)
- .1 nLIGHT CAT.# nCM PDT 10 RJ45
 .2 nLIGHT CAT.# POWER PACK nPP16 (D) FOR DIMMING
- .3 nLIGHT CAT.# nPODMA DX WH (NUMBER OF BUTTONS AS PER DRAWING) DX INDICATES DIMMING REQUIRED.
- .4 nLIGHT CABLING OR LOW VOLTAGE WIRING AS PER DRAWING.
 .5 COMMISSIONING REQUIRE AS PER DRAWING, LIGHTING ZONE AS PER DRAWING AND DETAIL. REFER TO SEQUENCE OF OPERATION.
- NOTE: PROGRAM OCCUPANCY SENSOR FOR A 30MIN. OFF DELAY.
- .14 INSTALL DEVICES IN GANG TYPE OUTLET BOX WHEN MORE THAN ONE DEVICE IS REQUIRED IN ONE LOCATION.
- 15 CHEET CTEEL LITHETY DOY COVED FOR WIRING DEVICES INSTALLED IN CUIDEAGE MOUNTED LITHETY DOVES
- .15 SHEET STEEL UTILITY BOX COVER FOR WIRING DEVICES INSTALLED IN SURFACE MOUNTED UTILITY BOXES.
- .16 STAINLESS STEEL, VERTICALLY BRUSHED, 1mm THICK OR THERMOPLASTIC CONSTRUCTION, COLOUR TO MATCH WIRING DEVICES, THICKNESS 2.5mm, COVER PLATES FOR WIRING DEVICES MOUNTED IN FLUSH-MOUNTED OUTLET BOXES.
- .17 SHEET METAL COVER PLATES FOR WIRING DEVICES MOUNTED IN SURFACE-MOUNTED FS OR FD TYPE CONDUIT BOXES.
- .18 PROTECT STAINLESS STEEL COVER PLATE FINISH WITH PAPER OR PLASTIC FILM UNTIL PAINTING AND OTHER WORK IS FINISHED.
- .19 INSTALL SUITABLE COMMON COVER PLATES WHERE WIRING DEVICES ARE GROUPED.

SURFACE RACEWAY

- .1 THE SINGLE COMPARTMENT SURFACE RACEWAY SHALL BE COMPLETE WITH THE FOLLOWING FEATURES:
 .1 SURFACE NON-METALLIC RACEWAY IS TO BE UTILIZED IN DRY INTERIOR LOCATIONS ONLY.
- .2 THE SURFACE NON-METALLIC RACEWAY SYSTEM SHALL BE EQUAL TO WIREMOLD SERIES AS NOTED ON DRAWING.
- .3 THE RACEWAY AND ALL SYSTEM COMPONENTS MUST BE UL LISTED AND EXHIBIT NON-FLAMMABLE SELF-EXTINGUISHING CHARACTERISTICS TESTED TO COMPARABLE SPECIFICATIONS OF UL94V-0. THE RACEWAY BASE AND COVER SHALL BE MANUFACTURED BY RIGID COMPOUND, AVAILABLE IN COLOUR / FINISH AS SELECTED BY OWNER
- .4 THE COVER SHALL SPAN THE ENTIRE WIDTH OF THE BASE CONCEALING ALL OF THE WIRING CHANNELS.
- .5 A FULL COMPLIMENT OF FITTINGS MUST BE AVAILABLE INCLUDING, BUT NOT LIMITED TO FLAT, INTERNAL AND EXTERNAL ELBOWS, TEES, ENTRANCE FITTINGS, COVER CLIPS AND END CAPS. THEY SHALL BE MANUFACTURED OF A RIGID PVC COMPOUND. THE FITTINGS SHALL HAVE A MATTE TEXTURE TO MATCH THE BASE AND COVER. THEY SHALL OVERLAP THE COVER AND BASE TO HIDE UNEVEN CUTS. ALL FITTINGS SHALL BE SUPPLIED WITH A BASE WHERE APPLICABLE TO ELIMINATE MITERING.
- .6 DEVICE BRACKETS SHALL BE AVAILABLE FOR MOUNTING STANDARD DEVICES IN—LINE WITH THE RACEWAY. FACEPLATES SHALL MATCH AND FIT FLUSH IN THE DEVICE PLATE. THEY SHALL BE MANUFACTURED OF RIGID PVC COMPOUND. THEY SHALL HAVE COLOUR AS SELECTED BY OWNER. CONTRACTOR IS TO PROVIDE DEVICES AS NOTED.
- .7 THE RACEWAY MANUFACTURER WILL PROVIDE A COMPLETE LINE OF CONNECTIVITY OUTLETS AND MODULAR INSERTS FOR UTP (INCLUDING CATEGORY 5e AND 6), STP (150 OHM) FIBRE OPTIC, COAXIAL AND OTHER CABLING TYPES WITH FACE PLATES AND BEZELS TO FACILITATE MOUNTING. THE ELECTRICAL CONTRACTOR IS TO PROVIDE ADAPTER PLATES FOR FACEPLATES TO BE PROVIDED BY THE VOICE/DATA SUB—CONTRACTOR. THE RECOMMENDED PLATE IS A DECO ADAPTER 3—PORT PLATE STYLE, CONFIRM WITH VOICE/DATA SUB—CONTRACTOR.
- .2 ACCEPTABLE ALTERNATE MANUFACTURERS INCLUDE:
 - .1 HUBBELL BASE TRAK .2 PANDUIT PAN-WAY
- .3 WIREMOLD
 .3 INSTALL ALL COMPONENTS TO SUIT MANUFACTURERS RECOMMENDATIONS.

FIRE ALARM SYSTEMS

- .1 INSTALLATION OF FIRE ALARM DEVICES MUST CONFORM TO ULC-S524 (LATEST EDITION).
- .2 ALL WIRING MUST BE COLOUR CODED, SIZED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS AND CONFORM TO THE LATEST EDITION OF THE ELECTRICAL SAFETY CODE.
- .3 ALL NEW FIRE ALARM DETECTION AND SIGNALING DEVICES ADDED DUE TO RENOVATIONS AND ADDITIONS SHALL BE CONNECTED TO EXISTING LOCAL ZONE OR NEW ZONE AS INDICATED.
- .4 ALL EXISTING FIRE ALARM ZONES THAT WERE AFFECTED DUE TO THE REMOVAL OF EXISTING FIRE ALARM DEVICES SHALL BE TESTED AS PART OF THE CERTIFICATE OF VERIFICATION.
- .5 ONCE INSTALLATION IS COMPLETE THE MANUFACTURER'S REPRESENTATIVE MUST MAKE AN INSPECTION OF THE DEVICES INSTALLED.
- .6 THIS TEST MUST CONFORM TO THE ONTARIO BUILDING CODE AND THE LATEST EDITION OF ULC CAN4-S537.
- .7 ALL COSTS ASSOCIATED WITH THIS INSPECTION BY THE CONTRACTOR AND MANUFACTURER MUST BE CARRIED IN THE TENDER PRICE.
- .8 UPON SUCCESSFUL COMPLETION OF TESTING THE MANUFACTURER MUST SUBMIT TO THE CONTRACTOR AND CONSULTANT:
- A CERTIFICATE OF VERIFICATION
 FIELD TECHNICIAN VERIFICATION SHEETS FOR EACH DEVICE VERIFIED (INCLUDE COPIES OF SAME IN MAINTENANCE MANUALS)

The contractor shall verify all dimensions and report all errors and discrepancies to the Consultant before commencement of the work. The drawings show general arrangement of services. Follow as closely as actual building construction will permit. Obtain approval for relocation of service from Consultant before commencement of the work. The drawings do not indicate all offsets fitting and accessories which may be required. Provide the same to meet the required conditions.

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DATE BY

1	ISSUED FOR REVIEW	24/03/08	RV
2	ISSUED FOR PERMIT & TENDER	24/04/18	RV

NO.	REVISIONS	DATE	BY	

PROJECT:

NO. ISSUES

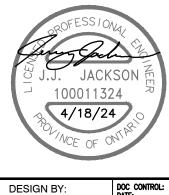
COLDWATER PUBLIC SCHOOL INTERIOR RENOVATIONS

3 JOHN ST. WEST, COLDWATER, ON SCDSB - COLDWATER PUBLIC SCHOOL

DRAWING:

ELECTRICAL SPECIFICATIONS PAGE 2 OF 2





% COMPLETE:

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Engineers
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