

WRDSB TAIT STREET PUBLIC SCHOOL CLASSROOM CEILINGS AND WASHROOM

RENOVATIONS TENDER #24-7550-RFT

ward99 architects inc. 7500 Hwy 27, Unit No.27B, Vaughan, ON L4H 0J2 Telephone: 416-613-5880

WRDSB TAIT STREET PUBLIC SCHOOL HVAC RENOVATIONS TENDER No. 7198-RW-22 Waterloo Region District School Board

Change of use

*Refer to description below.

Refer to scope of work description below

Group A, Division 2 Elementary School

Ontario 2012 Building Code Data Matrix Part 11 - Renovation of Existing Building

Renovation
Addition and Renovation

*Scope of Work: Minor renovation to provide for Mechanical HVAC upgrades and sprinkler upgrades to some existing rooms that are currently not sprinklered.

Location: 184 Tait Street, Cambridge, ON, N1S 3G3



Code Reference

DRAWING LIST

ARCHITECTURAL: WARD99 ARCHITECTS INC.

- A0.0 PROJECT TITLE, DRAWING LIST, PROJECT KEY PLAN, PROJECT INFORMATION, O.B.C. MATRIX AND TAG LEGEND
- **EXISTING KEY PLAN, EXISTING SITE** MOBILIZATION PLAN, DETAILS, LEGEND AND **NOTES**
- **A2.1 PARTIAL GROUND FLOOR DEMOLITION PLANS AND NOTES**
- A2.2 PARTIAL PROPOSED GROUND FLOOR PLAN **DETAILS, BUILDING SECTION AND NOTES.**
- A3.1 PARTIAL DEMOLITION REFLECTED CEILING PLAN AND LEGEND
- A3.2 PARTIAL PROPOSED REFLECTED CEILING PLAN, WASHROOM DETAILS, LEGEND AND NOTES
- A4.1 ENLARGED WASHROOM FLOOR PLAN, **DETAILS, NOTES, LEGEND AND INTERIOR ELEVATIONS**
- A4.2 SHELVING PLANS, ELEVATIONS AND SECTION **DETAILS**
- A5.1 DOOR & HARDWARE SCHEDULE, DOOR & FRAME **ELEVATION TYPES, DETAILS AND INTERIOR ELEVATIONS**
- A6.1 ROOM FINISH SCHEDULE AND PARTIAL GROUND FLOOR FINISH PLAN, GENERAL FLOOR FINISHES PLAN NOTES AND LEGEND

ELECTRICAL: DEI CONSULTING ENGINEERS

- E101 LEGEND, DETAILS, AND SCHEDULES
- **GROUND FLOOR DEMOLITION AND RENOVATION**
- **SPECIFICATIONS**

MECHANICAL: DEI CONSULTING ENGINEERS

- M101 KEY PLAN, LEGEND AND SCHEDULES
- M102 SCHEDULES
- **GROUND FLOOR PART PLANS DEMOLITION -DRAINAGE & DOMESTIC**
- M202 GROUND FLOOR PART PLANS DEMOLITION -**HEATING & DUCTWORK**
- M301 GROUND FLOOR PART PLANS RENOVATION -**DRAINAGE & DOMESTIC**
- M302 GROUND FLOOR PART PLANS RENOVATION -**HEATING & DUCTWORK**
- M401 GROUND FLOOR PART PLANS SPRINKLER **DEMOLITION AND RENOVATION**
- M501 MECHANICAL SPECIFICATION
- **BAS CONTROL SCHEMATICS**

CULHAM DR. DONALD ST.	W RIVER RD.	11
SITE		11
GRAND RIDGE DR. GRAND RIDGE DR. BE	W RIVER RD.	111
BERRY PATCH LN.		
CLOSEST MAIN INTERSECTION: TAIT ST. AND DONALD ST.		11
PROJECT INFORMATION		11

PROJECT INFORMATION	
PROJECT TITLE: WRDSB TAIT STREET PUBLIC SCHOOL	

TENDER #24-7550-RFT 184 TAIT STREET, CAMBRIDGE, ONTARIO N1S 3G3

CLASSROOM CEILINGS AND WASHROOM RENOVATIONS

WATERLOO REGION DISTRICT SCHOOL BOARD

OWNER'S CONTACT INFORMATION: 51 ARDELT AVENUE, KITCHENER, ON N2C 2R5

CONSULTANT: ward99 architects inc.

KEY PLAN

CONSULTANT 'S CONTACT INFORMATION: 7500 HIGHWAY 27 UNIT 27B VAUGHAN ON L4H 0J2

TEL: 416-613-5880 EMAIL: INFO@WARD99ARCHITECTS.COM

DRAWING TAGS LEGEND NOTES

- ROOM TITLE: ROOM NAME 1 REFERS TO ROOM NAME B101 REFERS TO ROOM NUMBER REFERS TO AREA IN m2
- DETAIL TAG: DETAIL NUMBER / DRAWING NUMBER.
- INTERIOR ELEVATION TAG: INTERIOR ELEVATION DETAIL NUMBER / DRAWING NUMBER

REFERS TO OCCUPANT LOAD

- **BUILDING ELEVATION TAG:** BUILDING ELEVATION DETAIL NUMBER / DRAWING NUMBER
- **BUILDING / WALL SECTION TAG:** SECTION DETAIL NUMBER / DRAWING P# PARTITION CONSTRUCTION TAG. REFER TO
- CONSTRUCTION LEGEND ON DRAWING A1.1 C# CEILING CONSTRUCTION TAG. REFER TO CONSTRUCTION LEGEND ON DRAWING A1.1
- FLOOR CONSTRUCTION TAG. REFER TO CONSTRUCTION LEGEND ON DRAWING A1.1. REFERS TO DOOR NUMBER. REFER TO DRAWING 1/A5.1 FOR DOOR HARDWARE SCHEDULE AND 2/A5.1 FOR DOOR AND FRAME ELEVATION TYPES.

		Occupations.		
	11.04	Building Area (m²)	Description: Existing New Total	[A]1.4.1.2.
			Building Area (m²): 4,888 m² 0 m² 4,888 m²	
	11.05	Building Height	 Storey Above Grade Storey Below Grade 8.70 (m) Above Grade Existing Output Description	[A]1.4.1.2. & 3.2.1.1.
W RIVER RD	11.06	Number of Streets/ Firefighter Access	Street(s) Existing street and existing access drive.	3.2.2.10. & 3.2.5.
ER RD.	11.07	Building Size	□ Small □ Medium ⊠ Large □ >Large	T.11.2.1.1.BN.
	11.08	Existing Building Classification:	Change in Major Occupancy: Yes Not Applicable (no change of major occupancy)	11.2.1.1.
			Construction Index: Hazard Index:	T 11.2.1.1.A. T 11.2.1.1B TO N
			Importance Category:	4.2.1.(3). 5.2.2.1.(2)
	11.09	Renovation Type:	☐ Basic Renovation ☑ Extensive Renovation	11.3.3.1. 11.3.3.2.
	11.10	Occupant Load:	*No change to occupant load.	3.1.17.1
	11.11	Plumbing Fixture Requirement:	Ratio: M/F = 1/1 Except as otherwise noted *Revision to Girls Washroom 121 and Boys Washroom 122 to revise the 10 fixtures in the Girls Washroom to 8 fixtures and the 13 fixtures in the Boys Washroom to 8 fixtures. See description below.	
	11.12	Barrier-free Design:	Yes No Explanation: renovation does not affect the existing barrier layout of the building. Provision for renovation to provide barrier-free washrooms.	11.3.3.2 (2)
	11.13	Reduction in Performance Level:	Structural:	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:	11.4.3.1 11.4.3.2 11.4.3.3 11.4.3.4 11.4.2.5 11.4.3.6
	11.15	Compliance Alternatives Proposed:	No □ Yes (list numbers and describe)	11.5.1

Scope of Work:

1- Minor renovation to 5 classrooms (Classrooms 9, 10, 11, 18 and 19) to provide for new ceiling assemblies, mechanical and electrical revisions, and additional sprinkler work to accommodate the introduction of new ceilings. 2- Provide for new millwork and rubber wall base in 7 classrooms (Classrooms 9, 20, 11, 18, 19, 21 and 22 3- Extensive renovation to existing Boys' Washroom 122 and Girls' Washroom 121 to provide for new flooring assembly, new water closets (including 2 barrier-free), new bradley wash fountain, new accessories, new toilet partitions, new ceiling assemblies, associated mechanical and electrical works, and new entry steel doors and frames with automatic hardware.

Closest OBC Classification: 3.2.2.24. Group A, Division 2, up to 6 Storeys, Any Area, Sprinklered;

- -The building shall be of non-combustible construction -3.2.2.16 allows heavy timber construction at roof levels that are one storey and for floor assemblies below the one storey. - Floor assemblies shall have a fire-resistance rating not less than 1 hour and - Mezzanines shall have a fire-resistance rating not less than 1 hour and
- All load-bearing walls, columns and arches shall have a fire-resistance rating not less than required for the supported assembly. *Note: Rooms are sprinklered in the area of renovation. Plumbing Fixture Count

OBC 3.7.4.3.(14); In an elementary school, provide 1 fixture per 30 males and 1 fixture per 26 females. OBC 3.7.2.3.B; Provide 1 barrier-free washroom stall for washrooms with 4-9 water closets. Washroom Fixture Count in the school:

Existing 4 single washrooms to serve 4 kindergarten classrooms. South-East Kindergartens: OL of 104 students (26 max. per classroom) which supports the existing kindergarten OL (and maximum allowable). Staff OL: Existing 3 washrooms serves 78 staff maximum and will therefore support the existing staff of

Staff Room: 1 Barrier-free Washroom Staff Work Room: 2 Single Washrooms

2 existing Barrier-free washrooms: Serves 52 students. existing single washrooms in Classrooms 8 and 20: Serves 52 students 4 Large Washrooms serves the following: xisting South-West Washroom:

REFER TO FLOOR PLAN ON DRAWING A1.1. FOR OL SUMMARY AT CLASSROOMS.

Renovated North-West Washroom: Female 8 fixtures Male 8 fixtures *Note: Worst case is 12 fixtures for females and 12 fixtures for men which services 312 female students and 312 male students for a Total Students served with existing and renovated washroom plumbing fixtures: 728 students total. Existing maximum allowable OL for 18 classrooms: 670 students. Therefore there are more than enough fixtures to serve the school.

O ARCHITECTS Sna Romer & Oudo LICENCE Issued for Schematic Design Report Dec. 21, 2023 TAIT STREET PUBLIC SCHOOL CLASSROOM CEILINGS AND WASHROOM RENOVATIONS WATERLOO REGION DISTRICT SCHOOL BOARD 184 TAIT ST., CAMBRIDGE, ON N1S 3G3 PROJECT TITLE, DRAWING LIST, PROJECT KEY PLAN, PROJECT INFORMATION, OBC MATRIX AND TAG LEGEND 23013 - WRDSB TAIT ST CEILINGS architects

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416 613 5880 www.ward99architects.com

CONDITIONS AND SITE MEASUREMENTS THAT ARE NOT

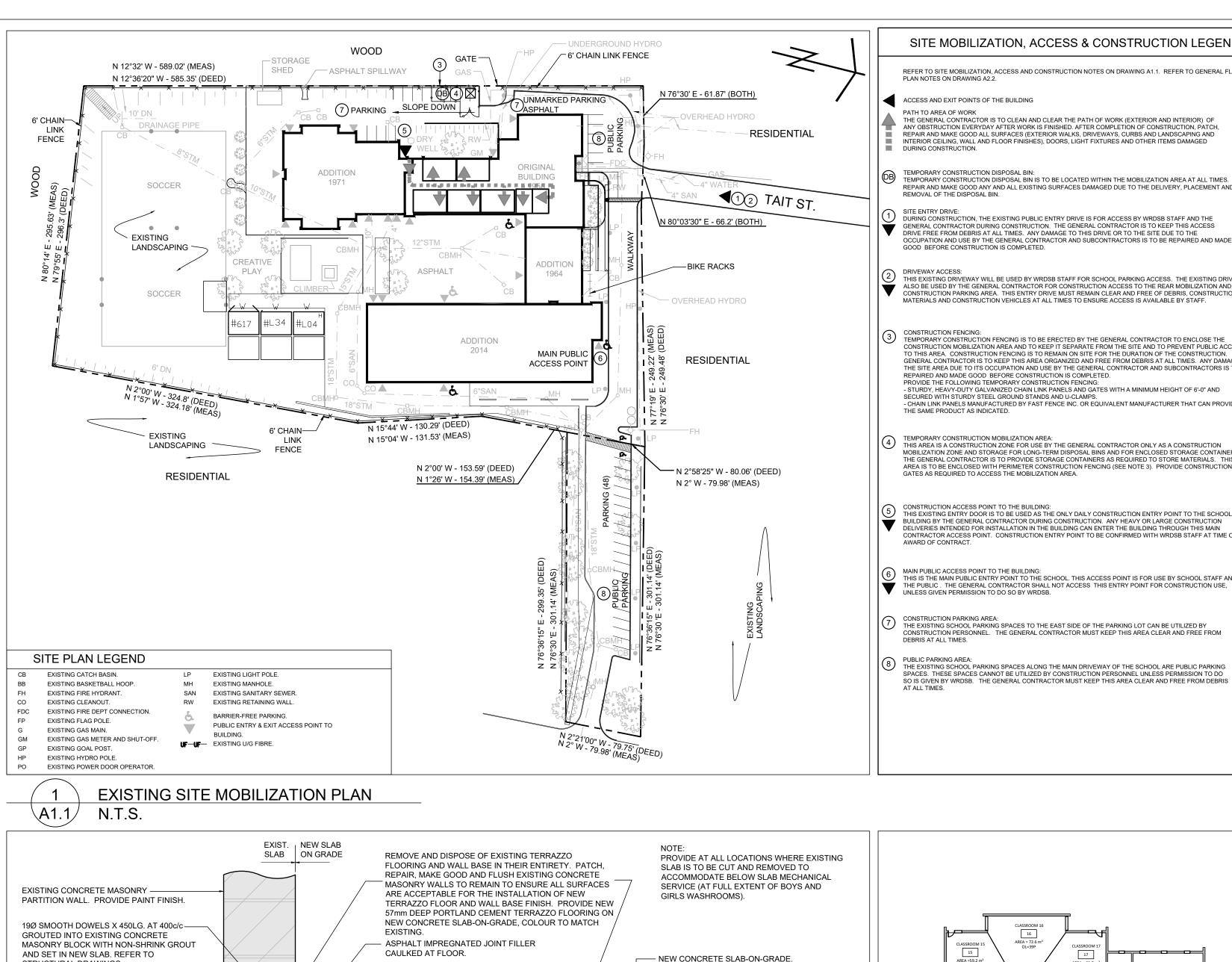
CONSISTENT WITH THE DRAWINGS

NO ASSOC

ward99 architects inc 7500 Highway 27, Unit 27<mark>f</mark>



- PART GROUND FLOOR PLAN
- PART ROOF FRAMING PLAN
- **GENERAL NOTES**



GREASE THIS PART OF DOWEL BEFORE

CONCRETE IS POURED. REFER TO

STRUCTURAL DRAWINGS.

EXISTING CONCRETE

STRUCTURAL DRAWINGS.

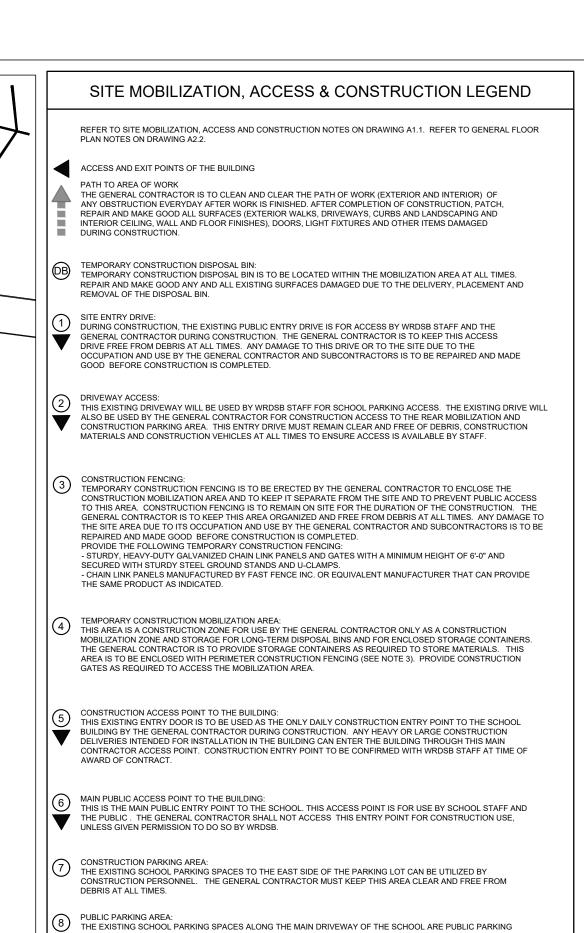
FOOTING, REFER TO

TYPICAL DETAIL OF JUNCTION AT NEW AND EXISTING CONCRETE SLAB-ON-GRADE

NEW 10mm POLY VAPOUR BARRIER

GRANULAR.REFER TO STRUCTURAL

OVER CRUSHED STONE OR



CONSTRUCTION LEGEND NOTES REFER TO PROPOSED FLOOR PLAN ON DRAWINGS 1 AND 2/A2.2, REFLECTED CEILING PLANS ON DRAWINGS ON A3.2 FOR LOCATION AND TYPES OF PARTITIONS. 2. AT EXISTING CHOOL BUILDING, ALL INTERIOR PARTITIONS SHALL EXTEND TO UNDERSIDE OF EXISTING WOOD DECK ON THE GROUND FLOOR, UNLESS NOTED OTHERWISE ON THE ARCHITECTURAL DRAWINGS, LEGENDS AND NOTES. UNLESS NOTED OTHERWISE, AT THE GROUND FLOOR LEVEL, THE HEIGHT FROM TOP OF EXISTING FINISHED FLOOR TO UNDERSIDE OF EXISTING WOOD ROOF DECK IS 3638mm +/- SITE VERIFY. CAULK WITH ACOUSTICAL SEALANT AT PERIMETER OF PARTITION ON

- BOTH SIDES AND AT PENETRATIONS. - 10mm JOINT AT U/S OF CEILING - 5mm JOINT AT FLOOR AND VERTICAL JOINTS ABUTTING DISSIMILAR
- BULLNOSE ALL CORNERS AT MASONRY PARTITIONS. GRIND EXPOSED 90 DEGREE CORNERS TO 25mm RADIUS.
- PROVIDE CONTROL JOINTS AT 6.0m MAXIMUM SPACING AND AT HEAD OF ALL DOOR OPENINGS. REFER TO DETAIL 5/A2.2.
- PROVIDE CONTROL JOINTS WHERE PROPOSED CONCRETE MASONRY PARTITION WALLS ABUT EXISTING CONCRETE AND MASONRY PARTITION WALLS. REFER TO DETAIL 5/A2.2.

CONSTRUCTION WALL ASSEMBLIES

INTERIOR PARTITION WALL 90mm CONCRETE MASONRY UNIT PARTITION WALL: 90mm CONCRETE MASONRY UNIT (CMU) INTERIOR WYTHE C/W REINFORCING. REFER ALSO TO STRUCTURAL DRAWINGS.

- EXTEND PARTITION FROM TOP OF CONCRETE FLOOR SLAB TO UNDERSIDE OF WOOD ROOF DECK ABOVE UNLESS NOTED OTHERWISE.
- REFER TO ROOM FINISH SCHEDULE DRAWING 2/A6.1
- FOR INTERIOR FINISH. REFER TO CONSTRUCTION LEGEND NOTES 1, 2, 3, 4, 5,

INTERIOR PARTITION WALL

140mm CONCRETE MASONRY UNIT PARTITION WALL: 140mm CONCRETE MASONRY UNIT (CMU) INTERIOR WYTHE C/W REINFORCING. REFER ALSO TO STRUCTURAL DRAWINGS.

- EXTEND PARTITION FROM TOP OF CONCRETE FLOOR SLAB TO UNDERSIDE OF WOOD ROOF DECK ABOVE UNLESS NOTED OTHERWISE.
- REFER TO ROOM FINISH SCHEDULE DRAWING 2/A6.1 FOR INTERIOR FINISH.
- REFER TO CONSTRUCTION LEGEND NOTES 1, 2, 3, 4, 5, AND 6.

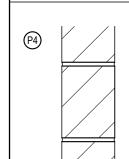
1 LAYER MIN. 13mm GYPSUM BOARD

INTERIOR FURRING PARTITION WALL AT FACE OF BULKHEADS (GYPSUM BOARD ON STEEL STUD):

- 92mm STEEL STUDS AT 610mm O.C.
- EXTEND GYPSUM BOARD TO 100mm ABOVE FINISHED
- REFER TO ROOM FINISH SCHEDULE DRAWING 2/A6.1 FOR INTERIOR FINISH.
- REFER TO CONSTRUCTION LEGEND NOTES 1, 2, AND 3.

$\widehat{\rho_{3A}}$ INTERIOR FURRING PARTITION WALL AT FACE OF BULKHEADS (GYPSUM BOARD ON STEEL STUD):

- SAME AS P3 BUT PROVIDE 90mm THICK MINERAL FIBRE SOUND ATTENUATION BATTS AND EXTEND PARTITION TO UNDERSIDE OF EXISTING WOOD ROOF DECK ABOVE.
- CONTINUOUS 10mil POLYETHYLENE MEMBRANE AT STUD WALLS TO ENCLOSE BATT INSULATION.
- TO BE LOCATED AT CLASSROOM 9 ONLY.



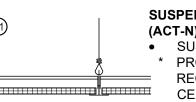
INTERIOR PARTITION WALL INFILL 240mm CONCRETE MASONRY UNIT INFILL:

 240mm CONCRETE MASONRY UNIT (CMU) INTERIOR WYTHE C/W REINFORCING. REFER TO STRUCTURAL

REFER TO ROOM FINISH SCHEDULE DRAWING 2/A6.1

- FOR INTERIOR FINISH. REFER TO CONSTRUCTION LEGEND NOTES 1, 2, 3, 4, 5,

CONSTRUCTION CEILING ASSEMBLIES



SUSPENDED T-BAR AND ACOUSTICAL TILE CEILING SUSPENDED T-BAR AND ACOUSTICAL TILE CEILING.

- PROVIDE COLD-FORMED STEEL CHANNELS WHERE REQUIRED FOR INTERMEDIATE SUPPORT OF * SECURE TO CONCRETE EXISTING STEEL ROOF
- ASSEMBLY ABOVE (O.W.S.J AND STEEL CHANNELS). SECURE TO EXISTING ROOF ASSEMBLY ABOVE. DO NOT SECURE TO WOOD ROOF DECK. NOTE: ACOUSTIC CEILING TILE AND T-BAR
- SUSPENSION FRAMING IS TO BE STANDARD WHITE NOTE: EXISTING SPRINKLERS TO REMAIN ABOVE C CEILING ASSEMBLY TO SERVE THE CEILING PLENUM

REVISE TO SUIT LAYOUT AS REQUIRED. PROVIDE NEW SPRINKLERS AT THE CEILING LEVEL TO SERVE THE CLASSROOMS BELOW THE CEILINGS.

SUSPENDED GYPSUM BOARD CEILING ASSEMBLY

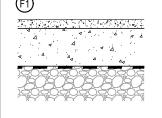
(GBD-N) 13mm GYPSUM BOARD SUSPENDED ON EXISTING GYPSUM BOARD FINISH AND FRAMING AT UNDERSIDE OF EXISTING BULKHEADS.

PROVIDE PAINT FINISH. SUSPENDED GYPSUM BOARD CEILING ASSEMBLY

13mm GYPSUM BOARD SUSPENDED ON 22mm METAL FURRING AT 400mm O.C. ON 41mm STEEL CHANNEL FRAMING AT 600mm O.C. AND THE PROPERTY OF THE PARTY O

CONSTRUCTION FLOOR ASSEMBLIES

PROVIDE PAINT FINISH.



NEW CONCRETE SLAB ON GRADE:

- 57mm THICK TERRAZZO PORTLAND CEMENT FLOOR FINISH. REFER TO ROOM FINISHES SCHEDULE AND FINISHES FLOOR PLAN ON DRAWING A6.1 FOR FLOOR FINISHES.
- REINFORCED POURED CONCRETE SLAB ON GRADE MIN. 100mm THICK UNLESS NOTED OTHERWISE ON THE STRUCTURAL DRAWINGS. • CONTINUOUS (10 mil min.) UNDER SLAB SHEET
- COMPACTED SLAB-ON-GRADE CRUSHED STONE OR GRANULAR FILL. REFER TO STRUCTURAL DRAWINGS.

VAPOUR RETARDER WITH ALL JOINTS LAPPED AND

 REFER TO CONSTRUCTION LEGEND NOTE 1. PROVIDE F1 AT ALL AREAS WHERE EXISTING CONCRETE SLAB-ON-GRADE IN EXISTING BUILDING IS REMOVED TO PROVIDE FOR AND TO REMOVE EXISTING UNDER SLAB PLUMBING CONNECTIONS (AT FULL EXTENT OF FLOOR AT BOYS WASHROOM AND GIRLS WASHROOM). REFER TO ARCHITECTURAL DEMOLITION FLOOR PLAN DRAWING 1/A2.1, AND PROPOSED FLOOR PLAN DRAWING 1/A2.2, STRUCTURAL AND

MECHANICAL DRAWINGS. REFER ALSO TO ARCHITECTURAL DETAILS 2/A1.1 AND 3/A1.1

NOTE: THIS DRAWING IS NOT TO BE SCALED. THE CONTRACTOR

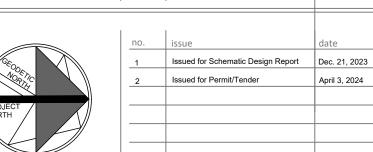
DIMENSIONS AND FOR NOTIFYING THE ARCHITECT OF ANY SITE

IS RESPONSIBLE FOR THE VERIFICATION OF ALL SITE

CONSISTENT WITH THE DRAWINGS.

CONDITIONS AND SITE MEASUREMENTS THAT ARE NOT





TAIT STREET PUBLIC SCHOOL CLASSROOM CEILINGS AND WASHROOM RENOVATIONS TENDER #24-7550-RFT

WATERLOO REGION DISTRICT SCHOOL BOARD 184 TAIT ST., CAMBRIDGE, ON N1S 3G3

EXISTING KEY PLAN, EXISTING SITE MOBILIZATION PLAN, DETAILS drawing scale

23013 - WRDSB TAIT ST CEILINGS architects

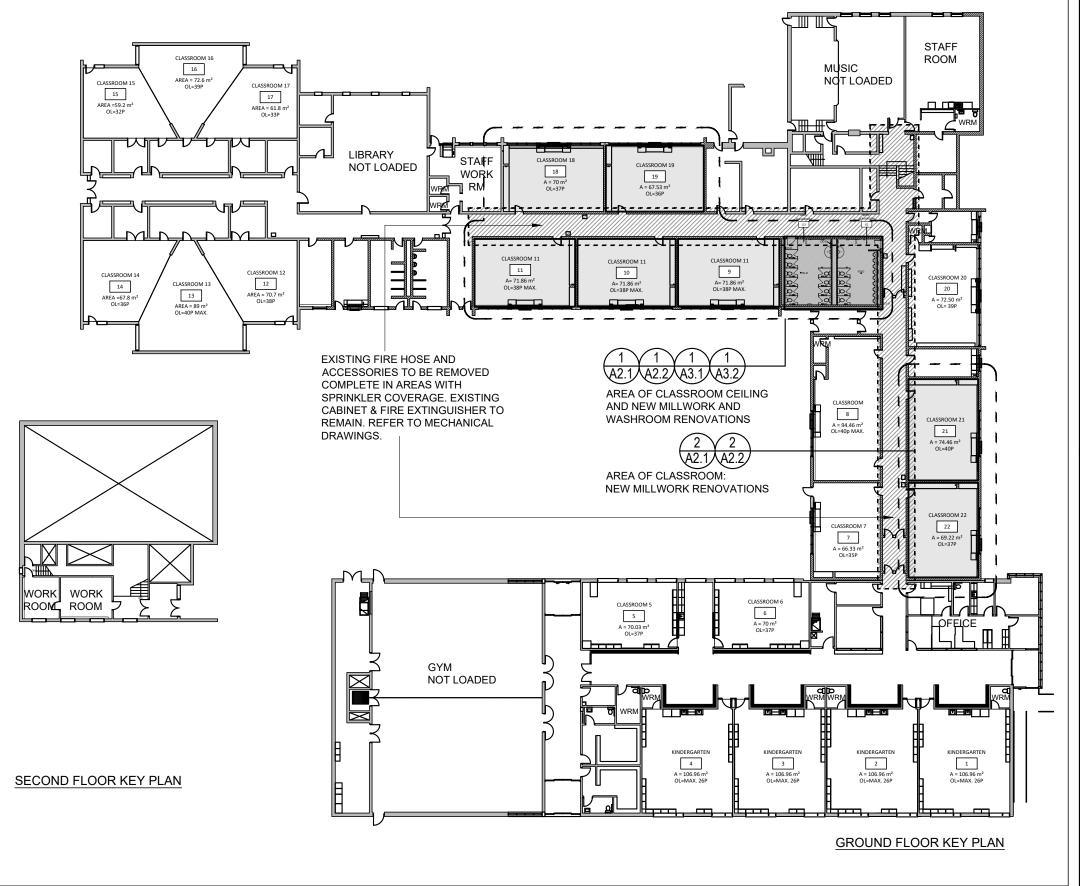
AS NOTED

Wa

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TYPICAL DETAIL OF NEW CONCRETE SLAB-ON-GRADE AND CONTROL JOINT

SAW-CUT. REFER TO

STRUCTURAL DRAWINGS.

STRUCTURAL DRAWINGS.

EXISTING STEEL DOWEL.-

REFER TO STRUCTURAL

DRAWINGS. CONTRACTOR IS

RESPONSIBLE FOR X-RAYING

CONCRETE SLAB ON GRADE TO

1:10

AND SCANNING EXISTING

LOCATE EXISTING STEEL

DOWELS PRIOR TO CUTTING.

-c111411111

NEW CONCRETE SLAB-ON-GRADE. REFER TO

ON DRAWING A1.1. REFER ALSO TO

STRUCTURAL DRAWINGS

FLOOR CONSTRUCTION ASSEMBLY TYPE "F1"

PROVIDE NEW CRUSHED STONE OR

REFER TO STRUCTURAL DRAWINGS.

EXISTING CONCRETE -

SLAB-ON-GRADE.

REFER TO FLOOR CONSTRUCTION

REFER ALSO TO STRUCTURAL

— NEW 10mm POLY VAPOUR BARRIER

GRANULAR.REFER TO STRUCTURAL

OVER CRUSHED STONE OR

-NEW TERRAZZO FLOORING. REFER TO

ROOM FINISHES SCHEDULE AND

WWF. REFER TO STRUCTURAL

FLOOR FINISHES PLAN

DRAWINGS

ASSEMBLY TYPE "F1" ON DRAWING A1.1.

PROVIDE AT ALL LOCATIONS WHERE EXISTING SLAB IS

TO BE CUT AND REMOVED TO ACCOMMODATE BELOW

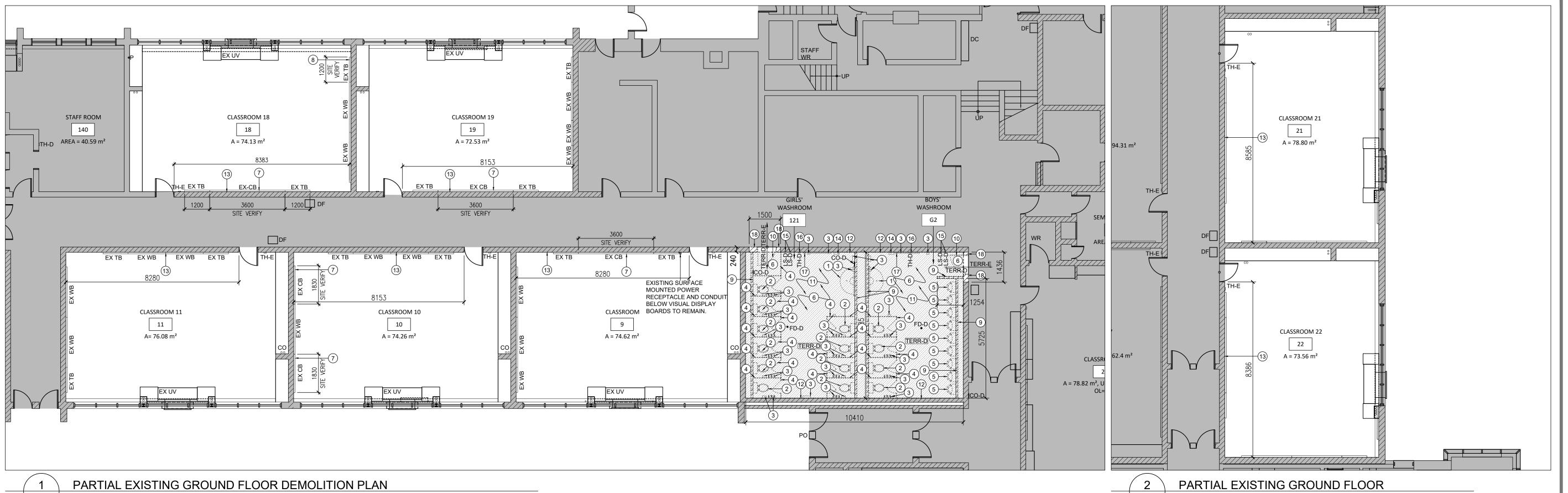
AND GIRLS WASHROOMS).

SLAB MECHANICAL SERVICE (AT FULL EXTENT OF BOYS

GRANULAR TO MATCH EXISTING

REFER TO STRUCTURAL DRAWINGS.

EXISTING GROUND AND SECOND FLOOR KEY PLANS



A2.1 1:100

GENERAL DEMOLITION NOTES

AFTER ALL WORK IS COMPLETE.

FLOOR PLAN DEMOLITION NOTES

1:100

DRAWINGS 1/A2.1 AND 2/A2.1. DRAWINGS AND ALL OTHER STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION, DETAILS, NOTES AND

REMOVE AND DISPOSE OF EXISTING WASH FOUNTAIN AND ASSOCIATED PLUMBING, INCLUDING CLEAN-OUT CONNECTIONS. REFER TO MECHANICAL

DRAWINGS REMOVE AND DISPOSE OF EXISTING WATER CLOSET AND ASSOCIATED PLUMBING. REFER TO MECHANICAL DRAWINGS. REMOVE AND DISPOSE OF EXISTING ACCESSORIES, INCLUDING PAPER TOWEL DISPENSER, TISSUE DISPENSER, SANITARY NAPKIN DISPOSAL

MOUNTED MIRROR. REMOVE AND DISPOSE OF EXISTING FLOOR MOUNTED OVERHEAD BRACED TOILET PARTITIONS AND ASSOCIATED FRAMING IN IT'S ENTIRETY. DEMOLISH ALL PARTITION MOUNTED WASHROOM ACCESSORIES INCLUDING TOILET PAPER DISPENSER AND SANITARY NAPKIN DISPENSER.

BIN, SOAP DISPENSER, SANITARY NAPKIN/TAMPON DISPENSER, WALL

REMOVE AND DISPOSE OF EXISTING URINAL AND ASSOCIATED PLUMBING. REFER TO MECHANICAL DRAWINGS. TERR-D = REMOVE AND DISPOSE OF EXISTING TERRAZZO FLOORING (APPROXIMATELY 57mm DEEP) AND 100mm HIGH TERRAZZO BASE IN THEIR ENTIRETY AT THE ENTIRE FLOOR AREA OF THE EXISTING WASHROOMS.

ENSURE ALL WALL SURFACES TO REMAIN ARE ACCEPTABLE FOR THE INSTALLATION OF NEW TERRAZZO WALL BASE. EX CB = EXISTING 1200mm HIGH CHALKBOARD (REFER TO PLANS FOR WIDTH) WITH PERIMETER WOOD TRIM TO REMAIN. SITE VERIFY ALL MEASUREMENTS. NEW WHITE BOARD ASSEMBLY IS TO BE INSTALLED ON TOP OF EXISTING CHALKBOARD. PROVIDE NEW WOOD STRAPPING ON EXISTING CHALKBOARD

AS REQUIRED TO SECURE NEW WHITE BOARD. EX TB = EXISTING 1200mm HIGH TACK BOARD (REFER TO PLANS FOR WIDTH). SITE VERIFY ALL MEASUREMENTS. NEW WHITE BOARD ASSEMBLY IS TO BE INSTALLED ON TOP OF EXISTING TACKBOARD. PROVIDE NEW WOOD STRAPPING ON EXISTING TACK BOARD AS REQUIRED TO SECURE NEW WHITE

REMOVE AND DISPOSE OF EXISTING 140mm THICK CONCRETE BLOCK WALL (AND ANY ASSOCIATED CERAMIC WALL TILE FINISHES) IN IT'S ENTIRETY FLUSH FROM UNDERSIDE OF EXISTING WOOD ROOF DECK TO UNDERSIDE OF DEMOLISHED EXISTING 100mm THICK CONCRETE SLAB-ON-GRADE (TOTAL HEIGHT OF APPROXIMATELY 3795mm) . PATCH, REPAIR, MAKE GOOD AND FLUSH, WALL SURFACES AT THE JUNCTION TO EXISTING CONCRETE BLOCK WALLS TO REMAIN. ENSURE ALL SURFACES ARE ACCEPTABLE FOR THE INSTALLATION OF NEW FINISHES.

10. REMOVE AND DISPOSE OF EXISTING DOOR, HOLLOW METAL DOOR FRAME AND ASSOCIATED HARDWARE AND ANCHORS IN THEIR ENTIRETY. HATCH DENOTES DEMOLITION OF CONCRETE SLAB-ON-GRADE AND REPLACEMENT WITH NEW

FLOOR CONSTRUCTION TYPE F1. SEE BELOW. DEMOLISH IN ENTIRETY THE EXISTING CONCRETE SLAB-ON-GRADE AND ASSOCIATED BELOW SLAB GRANULAR ASSEMBLY AS SHOWN ON THE FLOOR PLANS (FOR FULL EXTENT OF THE BOYS AND GIRLS WASHROOMS) FOR A DEPTH AS REQUIRED (MINIMUM OF 800mm IN DEPTH BELOW SLAB) TO REMOVE AND CONNECT TO EXISTING UNDER SLAB MECHANICAL PLUMBING SERVICES. THE DEPTH OF THE EXISTING CONCRETE FLOOR SLAB IS 100mm. PROVIDE NEW 100mm DEEP CONCRETE SLAB-ON-GRADE ASSEMBLY TYPE F1 TO REPLACE THE EXISTING DEMOLISHED CONCRETE SLAB-ON-GRADE ASSEMBLY. REFER TO CONSTRUCTION FLOOR ASSEMBLY TYPE F1 ON DRAWING A1.1. REFER ALSO TO STRUCTURAL AND MECHANICAL DRAWINGS AND ARCHITECTURAL DETAILS 2 AND 3 ON DRAWING A1.1. ENSURE THE CONCRETE SLAB-ON-GRADE IS FLUSH, SMOOTH AND LEVEL TO ACCEPT NEW

57mm DEEP TERRAZZO PORTLAND CEMENT FLOORING FINISH. 12. DEMOLISH EXISTING CERAMIC WALL TILE AND ASSOCIATED GROUT (HEIGHT OF APPROXIMATELY 2000mm - SITE VERIFY) ON EXISTING CONCRETE BLOCK WALLS TO REMAIN. MAKE GOOD EXISTING MASONRY WALL SURFACES IN PREPARATION FOR THE INSTALLATION OF NEW CERAMIC WALL TILE FINISHES.

13. DEMOLISH EXISTING RUBBER WALL BASE AT FULL EXTENT OF WALL SURFACE INCLUDING THE REMOVAL OF ALL ASSOCIATED ADHESIVES, AS REQUIRED TO ACCOMMODATE THE INSTALLATION OF NEW LOW MILLWORK SHELVING UNITS. MAKE GOOD EXISTING WALL SURFACE IN PREPARATION FOR THE INSTALLATION OF NEW RUBBER WALL BASE AT THE EXISTING WALL

AND ON THREE SIDES OF NEW LOW MILLWORK SHELF UNITS. 14. DEMOLISH EXISTING WALL MOUNTED HAND DRYERS AND ASSOCIATED ELECTRICAL CONNECTIONS. REFER TO ELECTRICAL DRAWINGS.

AND 400mm HIGH MASONRY AND STEEL LINTEL ASSEMBLY ABOVE THE NEW

15. LS-D = DEMOLISH EXISTING LIGHT SWITCHES AND ASSOCIATED ELECTRICAL CONNECTIONS. REFER TO ELECTRICAL DRAWINGS.

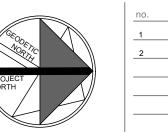
16. TH-D = DEMOLISH THE EXISTING WALL MOUNTED THERMOSTAT. REFER TO MECHANICAL DRAWINGS.

17. REMOVE AND REINSTATE EXISTING WALL MOUNTED ALARM STROBE DEVICE ONTO NEW WALL SURFACE. REFER TO ELECTRICAL DRAWINGS. 18. DEMOLISH A PORTION OF THE EXISTING 240mm THICK MASONRY CORRIDOR WALL TO PROVIDE FOR AN ENLARGED DOOR OPENING. REFER TO FLOOR PLANS FOR TOTAL WIDTH OF NEW DOOR OPENING AND ASSOCIATED NEW MASONRY SUPPORT JAMBS. TOTAL HEIGHT OF DEMOLISHED WALL OPENING IN CORRIDOR IS 2600mm TO ACCOMMODATE A 2200mm DOOR AND FRAME

DOOR OPENINGS.

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

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TAIT STREET PUBLIC SCHOOL CLASSROOM CEILINGS AND WASHROOM RENOVATIONS TENDER #24-7550-RFT

WATERLOO REGION DISTRICT SCHOOL BOARD 184 TAIT ST., CAMBRIDGE, ON N1S 3G3

PARTIAL GROUND FLOOR DEMOLITION PLANS AND NOTES

23013 - WRDSB TAIT ST CEILINGS

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) DEMOLITION PLAN NOTE DEMOLITION DRAWINGS ON A2.1 AND A3.1 SHALL BE READ IN CONJUNCTION REFER TO EXISTING GROUND FLOOR PLAN DEMOLITION WITH ALL OTHER DEMOLITION DRAWINGS, ALL OTHER ARCHITECTURAL

WHERE WALL RECESSED OR MOUNTED DEVICES ARE REMOVED AS NOTED ON ELECTRICAL AND MECHANICAL DRAWINGS, AND NO DEVICES ARE

DEMOLITION PLAN

REINSTATED IN THEIR PLACE, PROVIDE RECEPTACLE COVERS. TEMPORARILY REMOVE WINDOW SHADES AND ASSOCIATED CHAIN FASTENERS AT ALL WINDOWS IN ALL ROOMS AS REQUIRED TO COMPLETE THE WORK. REINSTALL WINDOW SHADES AND ASSOCIATED FASTENERS

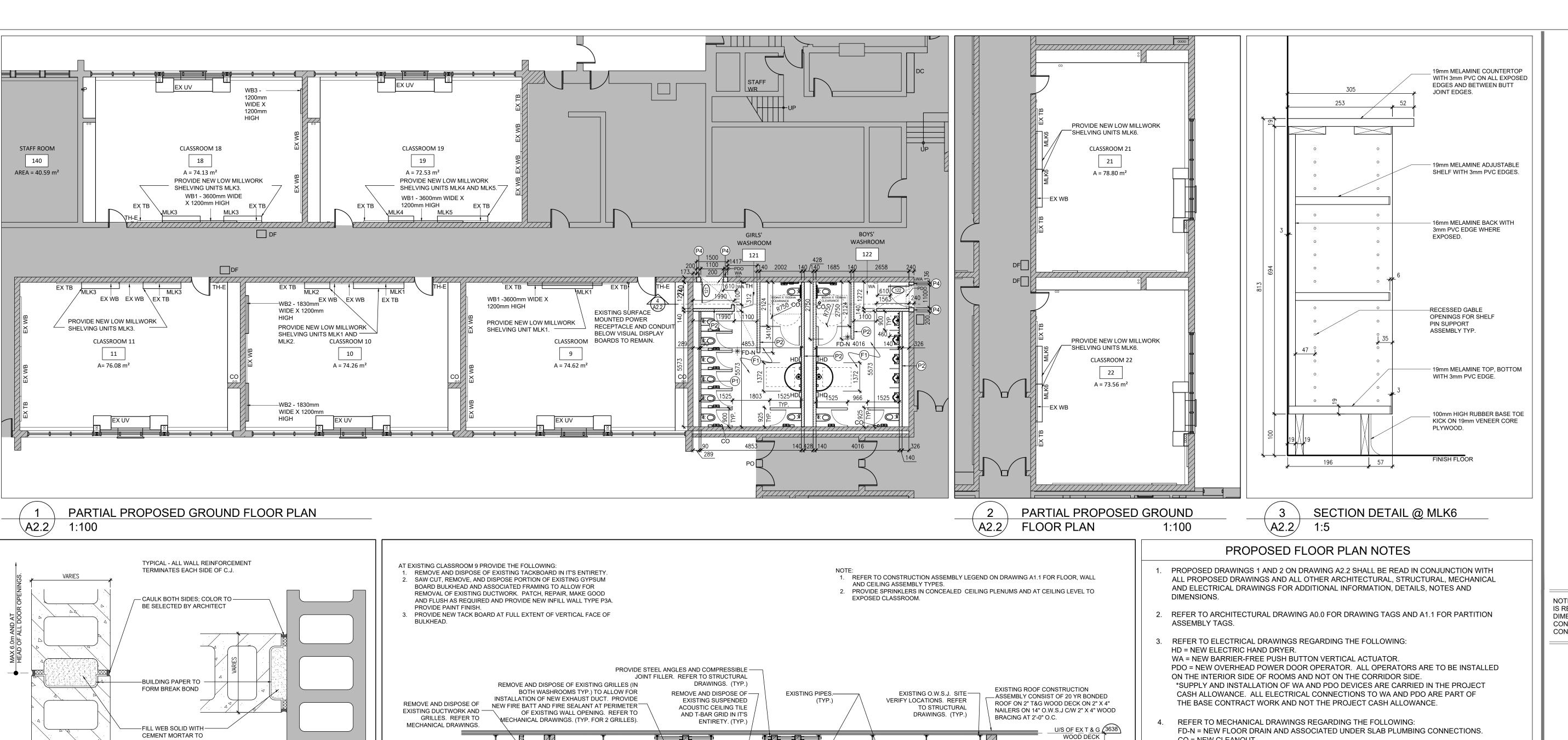
4. PIPE INSULATION AT ALL EXISTING PIPING AND FITTINGS CONTAINS ASBESTOS AND CAN BE FOUND IN ALL ROOMS WHERE WORK IS TO OCCUR. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS WHERE ADDITIONAL WORK IS OCCURRING. ABATEMENT IS REQUIRED TO COMPLETE THE WORK AND IS INCLUDED IN THE BASE BID CONTRACT. REFER TO THE ASBESTOS

AUDIT INCLUDED IN THE PROJECT MANUAL. 5. LEAD PAINT EXISTS THROUGHOUT THE RENOVATION AREA. FOLLOW HAZARDOUS ASSESSMENT AND REMOVAL PROCEDURES AS DESCRIBED IN THE PROJECT MANUAL AND AS REQUIRED TO COMPLETE NEW WORK. ALL

ASSOCIATED WORK IS INCLUDED IN THE BASE BID PRICE. 6. NOTE THE FOLLOWING ABBREVIATIONS: EX WB = EXISTING WHITE BOARD TO REMAIN. EX TB = EXISTING TACK BOARD TO REMAIN.

CO = EXISTING CLEANOUT. CO-D = DEMOLISH EXISTING CLEANOUT. REFER TO MECHANICAL DRAWINGS. EX TH = EXISTING THERMOSTAT. EX UV = EXISTING UNIT VENTILATOR.

TERR-D = DEMOLISH EXISTING TERRAZZO FLOORING ASSEMBLY. REFER TO DEMOLITION NOTE 6. TERR-E = EXISTING TERRAZZO FLOORING AND BASE TO REMAIN. FD-D = DEMOLISH EXISTING FLOOR DRAIN AND ASSOCIATED UNDER SLAB PLUMBING CONNECTIONS. REFER TO MECHANICAL DRAWINGS.



FORM SHEAR KEY DETAIL -B-DETAIL -A-TYPICAL CONTROL JOINT AT NEW TYPICAL CONTROL JOINT INTERIOR MASONRY WALL & EXISTING AT NEW INTERIOR MASONRY WALL JUNCTION MASONRY WALL

TYPICAL CONTROL JOINT DETAIL

SUSPENDED T-BAR AND___ EXISTING CONCRETE ACOUSTICAL TILE CEILING. MASONRY WALL. PROVIDE PAINT FINISH. (TYP.) 16mm GYPSUM BOARD ON 92mm STEEL STUDS AT 610mm O.C. C/W — EXISTING SUSPENDED CONTINUOUS 10mil GYPSUM BOARD CEILING. POLYETHYLENE MEMBRANE AT STUD WALLS TO ENCLOSE BATT INSULATION. GIRL\$' WASHROOM WASHROOM -CORRIDOR 121 PATCH, REPAIR, MAKE GOOD --EXISTING TERRAZZO AND FLUSH EXISTING GYPSUM FLOORING ON CONCRETE BOARD BULKHEAD. PROVIDE SLAB-ON-GRADE (TYP.) NEW INFILL CEILING TYPE C2. T/O EX. FIN. 0000 GROUND FLOOR PROVIDE PAINT FINISH. EXISTING CONCRETE -FOOTING. REFER TO — DEMOLISH EXISTING CONCRETE SLAB-ON-GRADE AND ASSOCIATED BELOW EXISTING STEEL DOWEL. REFER TO STRUCTURAL DRAWINGS. SLAB GRANULAR ASSEMBLY AS SHOWN ON THE DEMOLITION FLOOR PLAN STRUCTURAL DRAWINGS. CONTRACTOR IS 1/A2.1 FOR A DEPTH AS REQUIRED (APPROXIMATELY 800mm FROM UNDERSIDE RESPONSIBLE FOR X-RAYING AND OF CONCRETE SLAB-ON-GRADE) TO REMOVE EXISTING MECHANICAL ASPHALT IMPREGNATED NEW 10mm POLY VAPOUR BARRIER— SCANNING EXISTING CONCRETE SLAB ON JOINT FILLER CAULKED AT OVER CRUSHED STONE OR GRANULAR. PLUMBING SERVICES AND TO PROVIDE FOR NEW. THE DEPTH OF THE GRADE TO LOCATE EXISTING STEEL EXISTING CONCRETE FLOOR SLAB IS 100mm IN DEPTH. PROVIDE NEW REFER TO STRUCTURAL DRAWINGS. DOWELS PRIOR TO CUTTING. (TYP.) CONCRETE SLAB-ON-GRADE ASSEMBLY TYPE F1 TO REPLACE THE EXISTING DOWEL. REFER TO REMOVE AND DISPOSE OF EXISTING TERRAZZO FLOORING -DEMOLISHED CONCRETE SLAB-ON-GRADE ASSEMBLY. REFER TO STRUCTURAL DRAWINGS. AND WALL BASE IN IT'S ENTIRETY. PATCH, REPAIR, MAKE CONSTRUCTION FLOOR ASSEMBLY TYPE F1 ON DRAWING A1.1. REFER ALSO GOOD AND FLUSH EXISTING CONCRETE MASONRY WALLS TO TO STRUCTURAL AND MECHANICAL DRAWINGS AND ARCHITECTURAL DETAILS ENSURE ALL SURFACES ARE ACCEPTABLE FOR THE 2 AND 3 ON DRAWING A1.1. ENSURE THE FLOOR SLAB IS FLUSH, SMOOTH AND INSTALLATION OF NEW TERRAZZO FLOOR AND WALL BASE LEVEL IN PREPARATION FOR THE INSTALLATION OF NEW TERRAZZO FLOORING. FINISH. PROVIDE NEW PORTLAND CEMENT TERRAZZO FLOORING ON NEW CONCRETE SLAB-ON-GRADE FOR FULL EXTENT OF FLOOR ASSEMBLY AT WASHROOMS TYP. EXISTING PIPE FITTINGS C/W PARGED CEMENT CONTAINS NON-FRIABLE ASBESTOS-CONTAINING (CHRYSOTILE) HAZARDOUS MATERIAL. ENSURE TO WEAR PROPER PROTECTIVE EQUIPMENT WHEN REMOVING ANY EXISTING PIPE FITTINGS. REFER TO DESIGNATED SUBSTANCES AUDIT UPDATE REPORT.

- CO = NEW CLEANOUT. TH = NEW THERMOSTAT.
- REFER TO DRAWING A4.1 FOR WASHROOM FIXTURES AND ACCESSORIES LAYOUT, LEGEND, INTERIOR ELEVATIONS AND NOTES.

HIGH. *PROVIDE A QUANTITY OF 1.

- REFER TO DRAWING A6.1 FOR FINISHES SCHEDULE, FINISHES FLOOR PLANS AND LEGEND AND
- PROVIDE NEW VISUAL DISPLAY BOARDS MOUNTED TO EXISTING CHALKBOARDS IN CLASSROOMS. PROVIDE NEW WOOD STRAPPING ON EXISTING CHALKBOARDS AS REQUIRED TO SECURE NEW WHITE BOARDS. NOTE THE FOLLOWING BOARD TYPES:

WB1 = NEW WALL MOUNTED MAGNETIC WHITE BOARD. SIZE TO BE 3600mm WIDE X 1200mm

- HIGH. *PROVIDE A QUANTITY OF 3. WB2 = NEW WALL MOUNTED MAGNETIC WHITE BOARD. SIZE TO BE 1830mm WIDE X 1200mm HIGH. *PROVIDE A QUANTITY OF 2. WB3 = NEW WALL MOUNTED MAGNETIC WHITE BOARD. SIZE TO BE 1200mm WIDE X 1200mm
- PROVIDE NEW LOW MILLWORK SHELVING IN CLASSROOMS. REFER TO MILLWORK DRAWINGS ON A4.2 AND FINISHES FLOOR PLAN 2/A6.1 FOR DETAILS, DIMENSIONS AND ADDITIONAL NOTES. MLK1 = NEW WALL MOUNTED LOW OPEN SHELF, 2438mm IN WIDTH X 686mm IN HEIGHT X 305mm DEPTH. REFER TO PLAN DETAIL 1/A4.2. QUANTITY OF 2.
 - MLK2 = NEW WALL MOUNTED LOW OPEN SHELF, 1220mm IN WIDTH X 686mm IN HEIGHT X 305mm DEPTH. REFER TO PLAN DETAIL 2/A4.2. QUANTITY OF 1. MLK3 = NEW WALL MOUNTED LOW OPEN SHELF, 1829mm IN WIDTH X 610mm IN HEIGHT X 305mm
 - DEPTH. REFER TO PLAN DETAIL 7/A4.2. QUANTITY OF 4. MLK4 = NEW WALL MOUNTED LOW OPEN SHELF, 1220mm IN WIDTH X 610mm IN HEIGHT X 305mm DEPTH. REFER TO PLAN DETAIL 8/A4.2. QUANTITY OF 1.
 - MLK5 = NEW WALL MOUNTED LOW OPEN SHELF, 2438mm IN WIDTH X 610mm IN HEIGHT X 305mm DEPTH. REFER TO PLAN DETAIL 9/A4.2. QUANTITY OF 1.
- MLK6 = NEW WALL MOUNTED LOW OPEN SHELF, 1829mm IN WIDTH X 813mm IN HEIGHT X 305mm DEPTH. REFER TO PLAN DETAIL 15/A4.2. QUANTITY OF 4. NOTE: REFER TO PROPOSED REFLECTED CEILING PLAN DRAWING 1/A3.2 FOR LOCATION OF

TACK BOARDS ON BULKHEADS AT HIGH LEVEL IN CLASSROOMS.

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

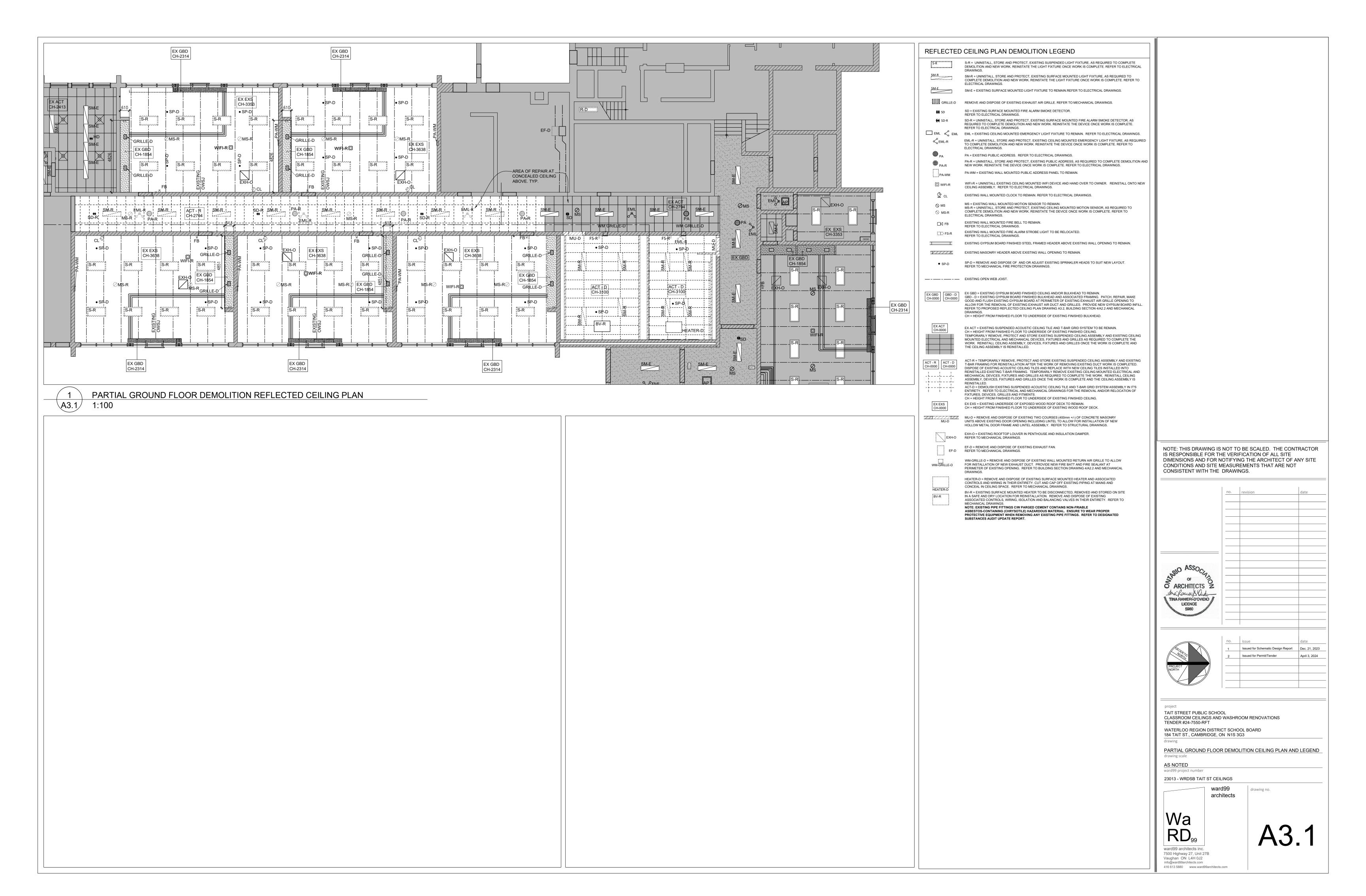
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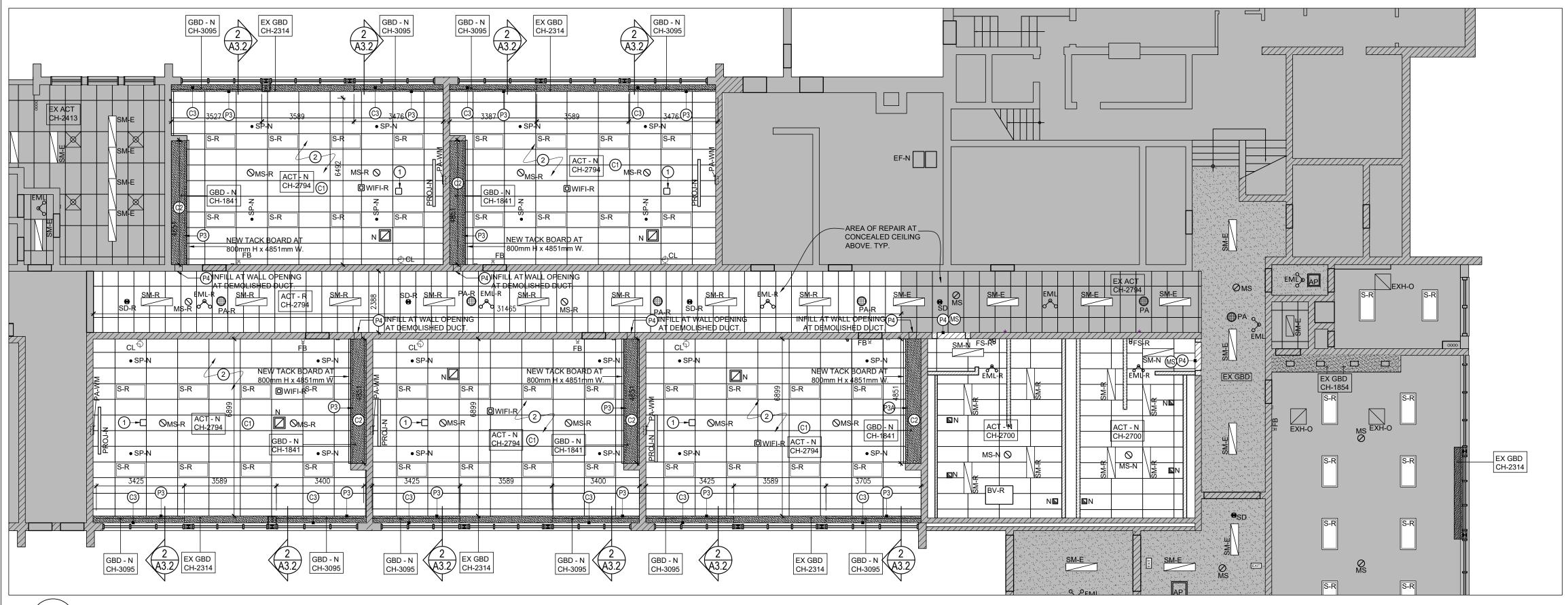
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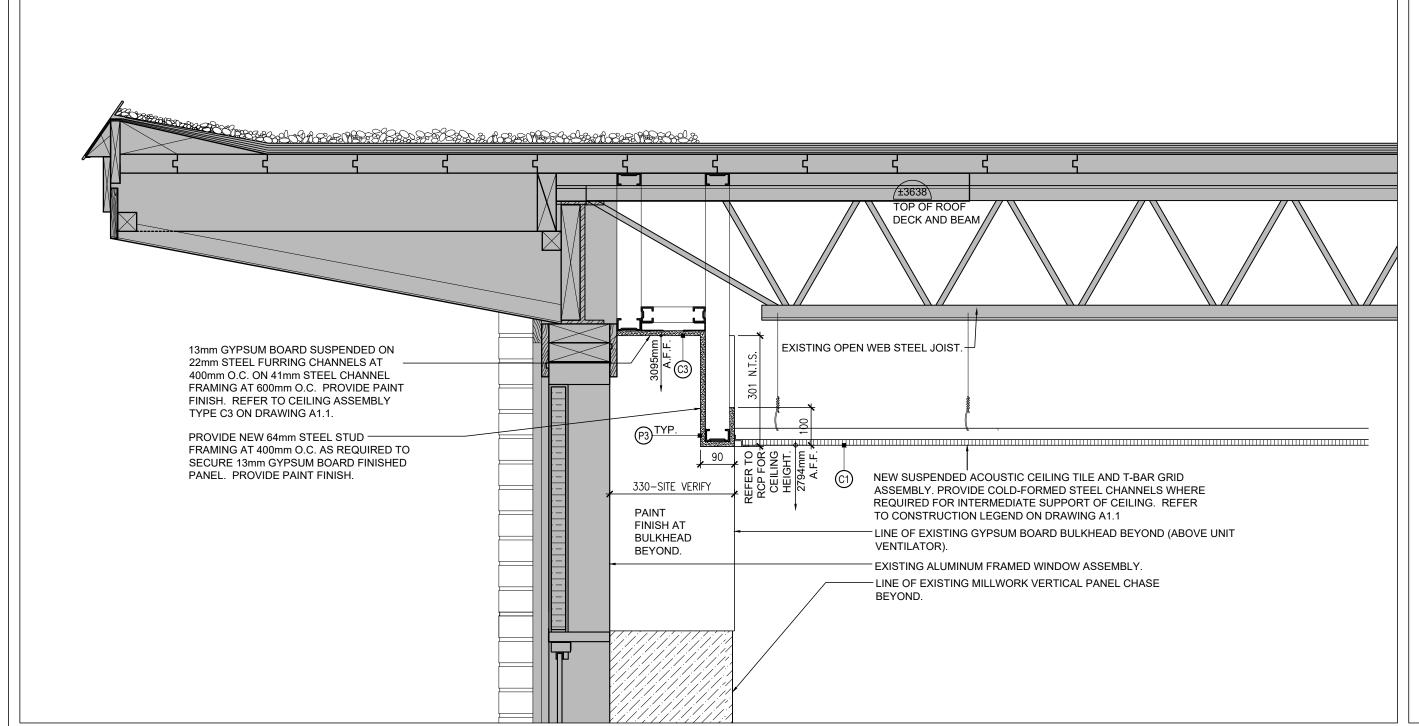
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BUILDING SECTION AT GIRLS WASHROOM 121 AND BOYS WASHROOM 122



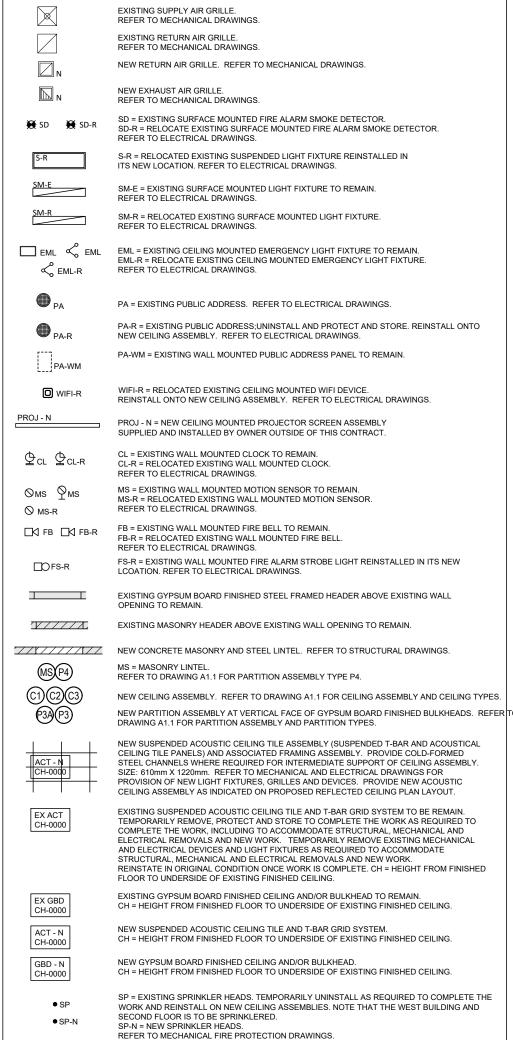


PARTIAL PROPOSED GROUND FLOOR REFLECTED CEILING PLAN A3.2 1:100



A3.2

TYPICAL PROPOSED CEILING SECTION DETAIL



REFLECTED CEILING PLAN LEGEND

PROPOSED REFLECTED CEILING PLAN NOTES

(#) PROPOSED REFLECTED CEILING PLAN NOTE REFER TO PROPOSED REFLECTED CEILING PLAN DRAWING 1/A3.2.

EF-N = NEW EXHAUST FAN. REFER TO MECHANICAL DRAWINGS.

BV-R = EXISTING SURFACE MOUNTED HEATER REINSTALLED IN IT'S NEW LOCATION. PROVIDE NEW CONTROLS, WIRING, ISOLATION AND BALANCING VALVES. REFER TO

- 1. INDICATED DEVICES ARE TO BE INSTALLED IN RECESSED BOX FOR CEILING PROJECTOR MOUNT. CONFIRM EXACT LOCATION ON SITE PRIOR TO ROUGH IN TO ENSURE PROPER DISTANCE FROM SCREEN. REFER TO ELECTRICAL
- 2. PROVIDE NEW SPRINKLER PIPING AND HEADS IN RENOVATED AREA IN CONCEALED CEILING PLENUM ABOVE ACT. PROVIDE NEW SPRINKLER PIPING AND HEADS IN RENOVATED AREA AT CEILING LEVEL INSTALLED WITHIN ACOUSTIC CEILING PANEL. EXISTING SPRINKLERS ARE TO BE MODIFIED AS REQUIRED TO SUIT NEW CEILING LAYOUT. REFER TO MECHANICAL

GENERAL REFLECTED CEILING PLAN NOTES

- REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR COORDINATION AND ADDITIONAL INFORMATION AND NOTES.
- 2. ALL CEILING MOUNTED COMPONENTS AND MECHANICAL AND ELECTRICAL DEVICES, FIXTURES AND EQUIPMENT ARE TO BE MOUNTED IN THE CENTRE OF ACOUSTIC CEILING TILES, EXCEPT WHERE NOTED OTHERWISE ON THE ARCHITECTURAL REFLECTED CEILING PLAN. SUSPEND ELECTRICAL DEVICES AND FIXTURES AND MECHANICAL DUCTWORK DEVICES AS INDICATED ON THE DRAWINGS AND IN THE SPECIFICATIONS.
- ADJUST NEW SUSPENDED CEILING ASSEMBLIES AND ACOUSTICAL CEILING TILES TO SUIT THE NOTED LOCATION OF LIGHT FIXTURES. LIGHT FIXTURES, SUPPLY AIR GRILLES AND RETURN AIR GRILLES ARE TO BE LOCATED AS NOTED ON THE REFLECTED CEILING PLAN.
- REFER TO MECHANICAL FIRE PROTECTION DRAWINGS FOR LOCATION OF NEW SPRINKLERS. SPRINKLERS ARE TO BE INSTALLED TO PROVIDE FOR SPRINKLERS WITHIN CONCEALED CEILING PLENUMS AND AT NEW CEILING ASSEMBLIES TO SERVICE THE ROOMS BELOW CEILING ASSEMBLIES. EXISTING SPRINKLERS ARE TO BE REVISED TO SUIT NEW LAYOUTS.
- PROVIDE NEW P3 AND P3A PARTITION TYPES AT ALL EXISTING VERTICAL GYPSUM BOARD FACES AT FINISHED BULKHEADS IN EXISTING CLASSROOMS, TO REPLACE EXISTING BULKHEAD VERTICAL FACES DEMOLISHED AS REQUIRED TO REMOVE EXISTING DUCTWORK. REFER TO MECHANICAL DRAWINGS FOR EXTENT OF DEMOLISHED DUCTWORK. PAINT NEW PARTITIONS AND PROVIDE NEW TACK BOARDS AT FULL EXTENT OF VERTICAL BULKHEAD FACES. REFER TO DRAWING 1/A3.2 FOR SIZES OF TACK BOARDS.

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

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CLASSROOM CEILINGS AND WASHROOM RENOVATIONS TENDER #24-7550-RFT WATERLOO REGION DISTRICT SCHOOL BOARD

184 TAIT ST., CAMBRIDGE, ON N1S 3G3

drawing PARTIAL PROPOSED REFLECTED CEILING PLAN, DETAIL, LEGEND AND NOTES

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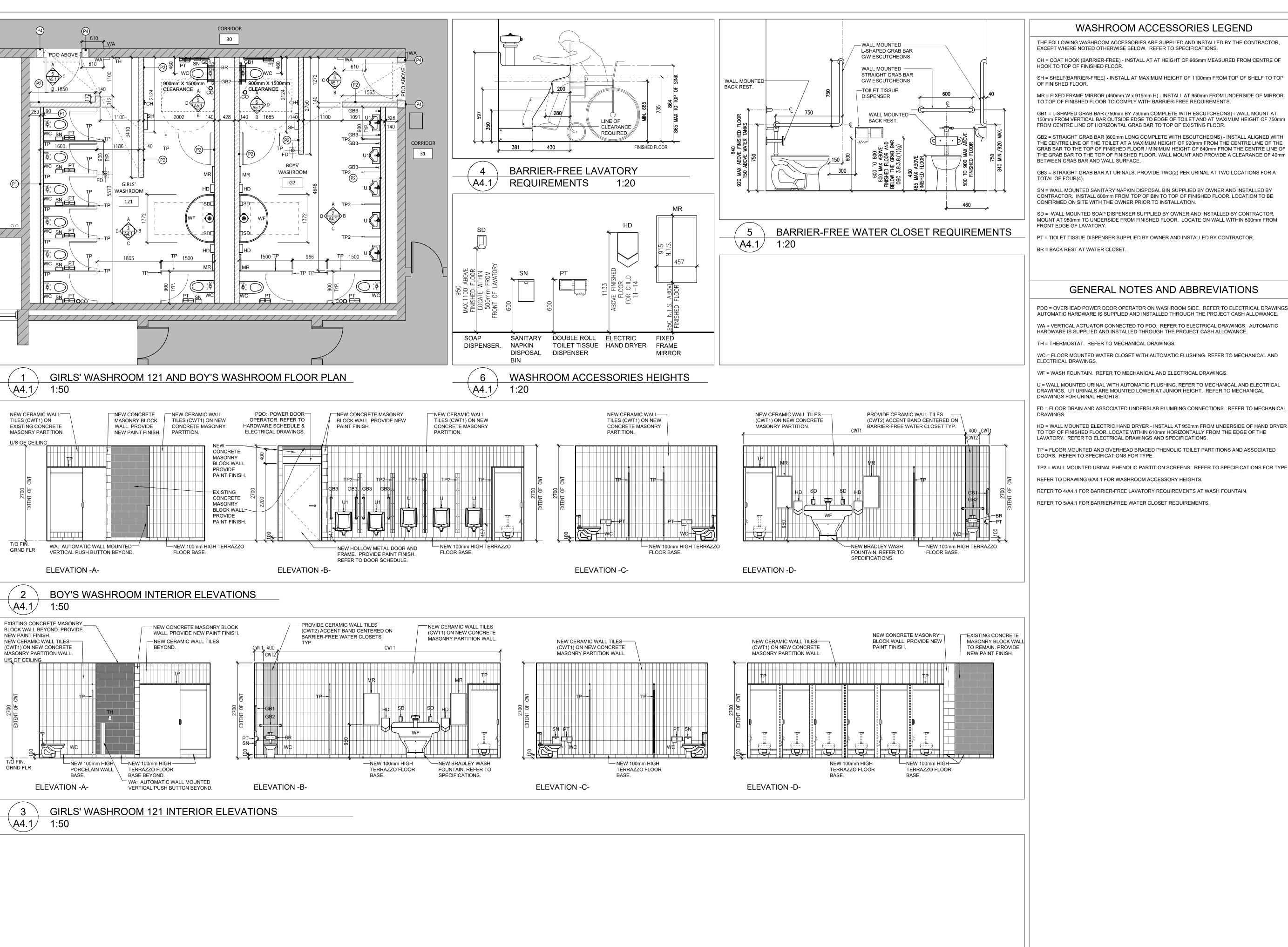
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WASHROOM ACCESSORIES LEGEND

EXCEPT WHERE NOTED OTHERWISE BELOW. REFER TO SPECIFICATIONS.

CH = COAT HOOK (BARRIER-FREE) - INSTALL AT AT HEIGHT OF 965mm MEASURED FROM CENTRE OF HOOK TO TOP OF FINISHED FLOOR.

SH = SHELF(BARRIER-FREE) - INSTALL AT MAXIMUM HEIGHT OF 1100mm FROM TOP OF SHELF TO TOP

MR = FIXED FRAME MIRROR (460mm W x 915mm H) - INSTALL AT 950mm FROM UNDERSIDE OF MIRROR TO TOP OF FINISHED FLOOR TO COMPLY WITH BARRIER-FREE REQUIREMENTS.

GB1 = L-SHAPED GRAB BAR (750mm BY 750mm COMPLETE WITH ESCUTCHEONS) - WALL MOUNT AT 150mm FROM VERTICAL BAR OUTSIDE EDGE TO EDGE OF TOILET AND AT MAXIMUM HEIGHT OF 750mm

FROM CENTRE LINE OF HORIZONTAL GRAB BAR TO TOP OF EXISTING FLOOR. GB2 = STRAIGHT GRAB BAR (600mm LONG COMPLETE WITH ESCUTCHEONS) - INSTALL ALIGNED WITH THE CENTRE LINE OF THE TOILET AT A MAXIMUM HEIGHT OF 920mm FROM THE CENTRE LINE OF THE

GB3 = STRAIGHT GRAB BAR AT URINALS. PROVIDE TWO(2) PER URINAL AT TWO LOCATIONS FOR A

SN = WALL MOUNTED SANITARY NAPKIN DISPOSAL BIN SUPPLIED BY OWNER AND INSTALLED BY CONTRACTOR. INSTALL 600mm FROM TOP OF BIN TO TOP OF FINISHED FLOOR. LOCATION TO BE CONFIRMED ON SITE WITH THE OWNER PRIOR TO INSTALLATION.

SD = WALL MOUNTED SOAP DISPENSER SUPPLIED BY OWNER AND INSTALLED BY CONTRACTOR. MOUNT AT 950mm TO UNDERSIDE FROM FINISHED FLOOR. LOCATE ON WALL WITHIN 500mm FROM

PT = TIOLET TISSUE DISPENSER SUPPLIED BY OWNER AND INSTALLED BY CONTRACTOR.

GENERAL NOTES AND ABBREVIATIONS

PDO = OVERHEAD POWER DOOR OPERATOR ON WASHROOM SIDE. REFER TO ELECTRICAL DRAWINGS. AUTOMATIC HARDWARE IS SUPPLIED AND INSTALLED THROUGH THE PROJECT CASH ALLOWANCE.

WA = VERTICAL ACTUATOR CONNECTED TO PDO. REFER TO ELECTRICAL DRAWINGS. AUTOMATIC HARDWARE IS SUPPLIED AND INSTALLED THROUGH THE PROJECT CASH ALLOWANCE.

TH = THERMOSTAT. REFER TO MECHANICAL DRAWINGS.

WC = FLOOR MOUNTED WATER CLOSET WITH AUTOMATIC FLUSHING. REFER TO MECHANICAL AND

WF = WASH FOUNTAIN. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS.

U = WALL MOUNTED URINAL WITH AUTOMATIC FLUSHING. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS. U1 URINALS ARE MOUNTED LOWER AT JUNIOR HEIGHT. REFER TO MECHANICAL

FD = FLOOR DRAIN AND ASSOCIATED UNDERSLAB PLUMBING CONNECTIONS. REFER TO MECHANICAL

HD = WALL MOUNTED ELECTRIC HAND DRYER - INSTALL AT 950mm FROM UNDERSIDE OF HAND DRYER TO TOP OF FINISHED FLOOR. LOCATE WITHIN 610mm HORIZONTALLY FROM THE EDGE OF THE LAVATORY. REFER TO ELECTRICAL DRAWINGS AND SPECIFICATIONS.

TP = FLOOR MOUNTED AND OVERHEAD BRACED PHENOLIC TOILET PARTITIONS AND ASSOCIATED DOORS. REFER TO SPECIFICATIONS FOR TYPE.

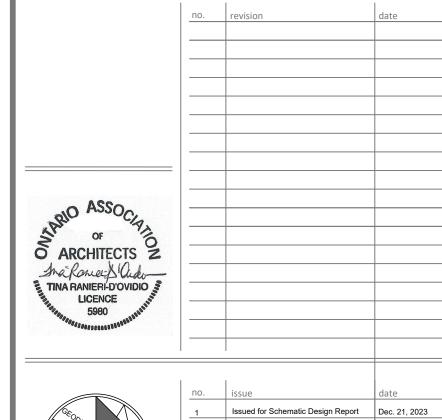
TP2 = WALL MOUNTED URINAL PHENOLIC PARTITION SCREENS. REFER TO SPECIFICATIONS FOR TYPE.

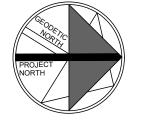
REFER TO 4/A4.1 FOR BARRIER-FREE LAVATORY REQUIREMENTS AT WASH FOUNTAIN.

REFER TO 5/A4.1 FOR BARRIER-FREE WATER CLOSET REQUIREMENTS.

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TAIT STREET PUBLIC SCHOOL CLASSROOM CEILINGS AND WASHROOM RENOVATIONS

WATERLOO REGION DISTRICT SCHOOL BOARD 184 TAIT ST., CAMBRIDGE, ON N1S 3G3

ENLARGED WASHROOM FLOOR PLAN, WASHROOM DETAILS, NOTES. LEGEND AND INTERIOR ELEVATIONS

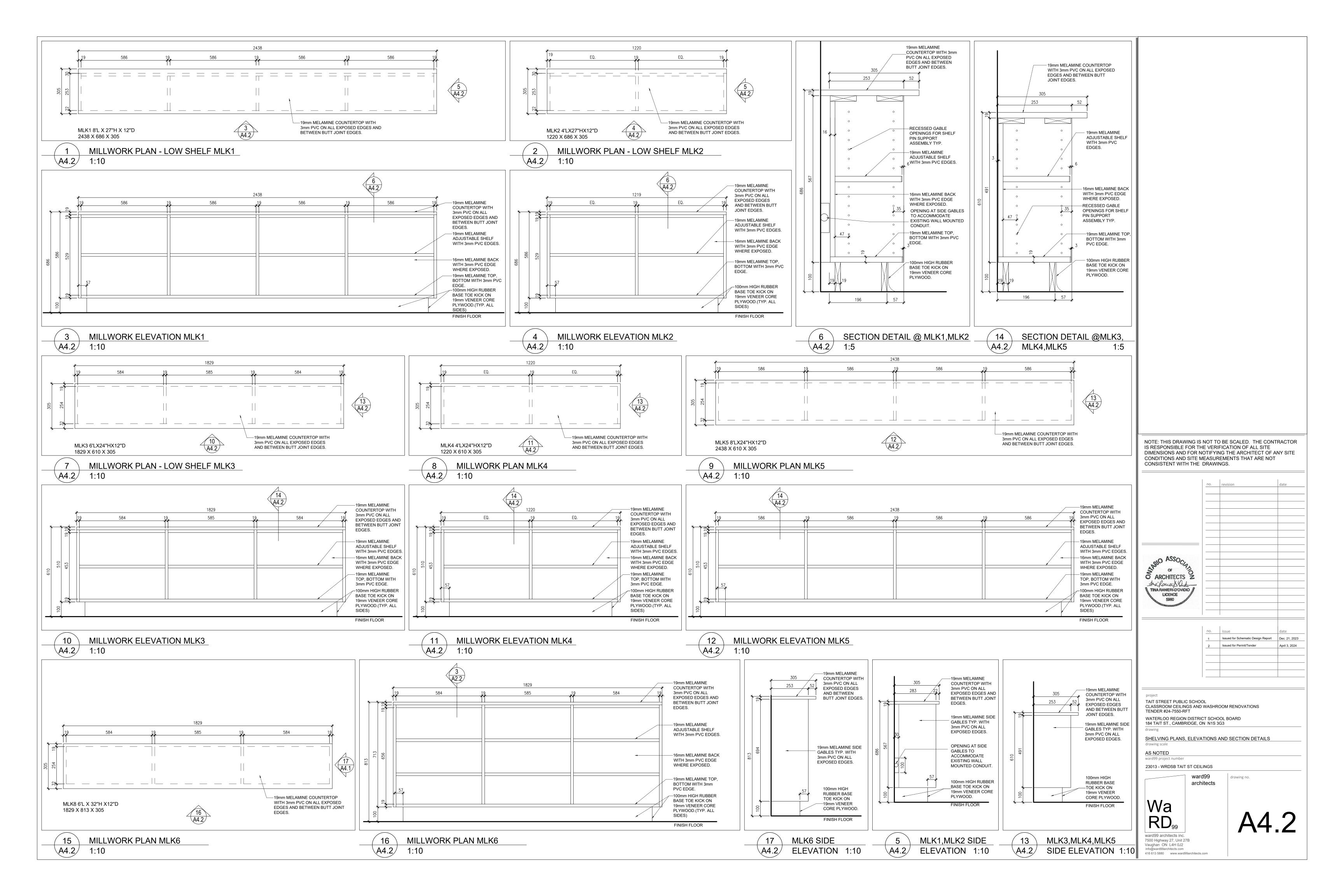
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DOOR AND HARDWARE SCHEDULE DOOR ROOM FIRE DOOR DOOR FRAME AND SCREEN NAME RATING DOOR HARDWARE REQUIREMENTS & NOTES DOOR, DOOR FRAME & SCREEN NOTES MATERIAL FINISH TYPE VISION WIDTH | HEIGHT | THICK | MATERIAL | FINISH | TYPE | REFER TO HOLLOW METAL DOOR FRAME 1-1/2 HINGES (PAIRS), PUSH PLATE, DOOR PULL, KICK PLATE, OVERHEAD STOP, DETAILS A, B, AND C ON DRAWING 4/A5.1. ELECTRIC STRIKE, POWER DOOR OPERATOR WITH MOUNTING PLATE, WALL GIRLS' HOLLOW HOLLOW PAINT PAINT REFER TO DETAIL 4A/A5.1 FOR PDO DETAILS. ACTUATORS, CLOSER. REFER TO ELECTRICAL DRAWINGS AND HARDWARE LIST. **WASHROOM** METAL METAL 1-1/2 HINGES (PAIRS), PUSH PLATE, DOOR PULL, KICK PLATE, OVERHEAD STOP, REFER TO HOLLOW METAL DOOR FRAME DETAILS A, B, AND C ON DRAWING 4/A5.1. ELECTRIC STRIKE, POWER DOOR OPERATOR WITH MOUNTING PLATE, WALL GIRLS' HOLLOW HOLLOW PAINT REFER TO DETAIL 4A/A5.1 FOR PDO DETAILS. ACTUATORS, CLOSER. REFER TO ELECTRICAL DRAWINGS AND HARDWARE LIST. **WASHROOM** METAL METAL

- CENTER HINGE: CENTERED BETWEEN TOP AND BOTTOLO HINGE.

HOLLOW METAL DOOR FRAMES.

- BOTTOM HINGE: 265mm MAXIMUM FROM BOTTOM OF HINGE TO BOTTOM DOOR EDGE.

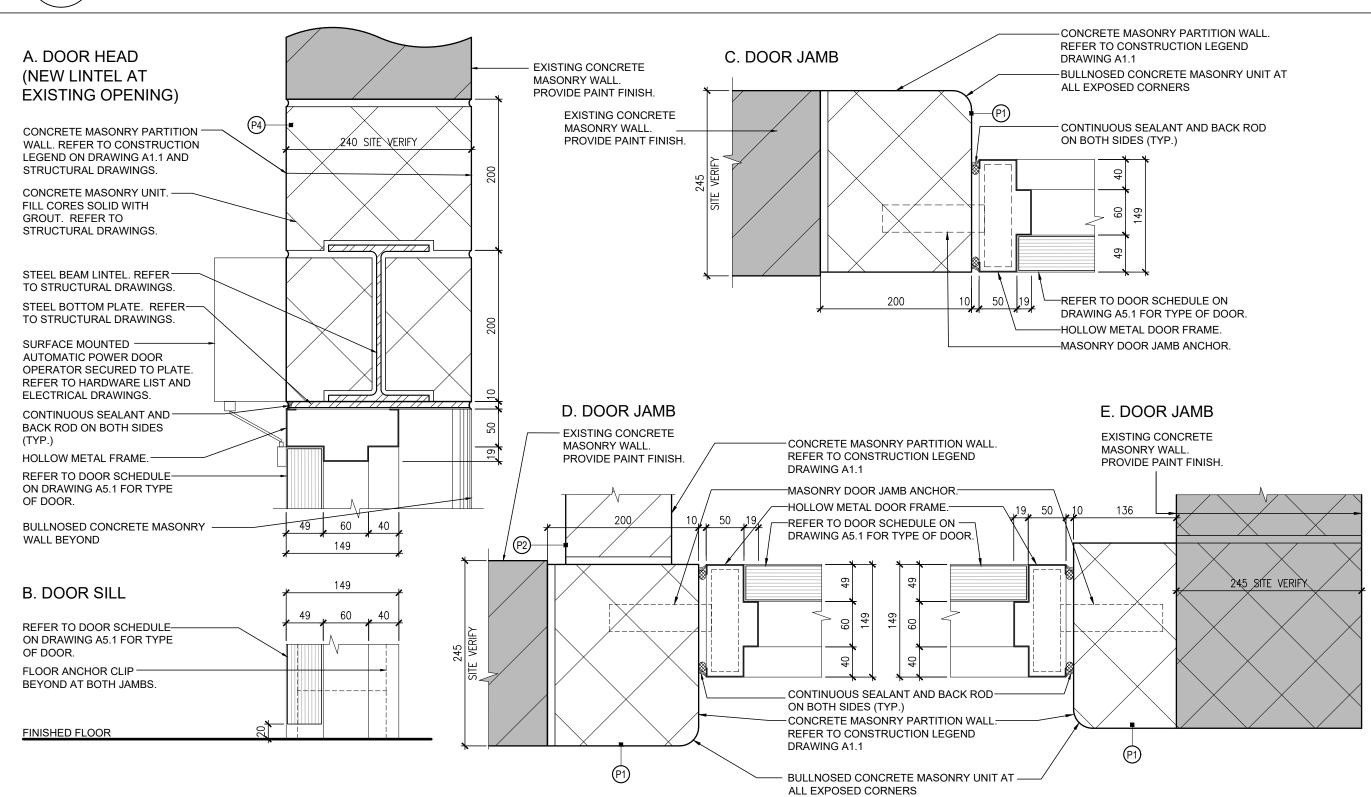
5. SITE VERIFY ALL EXISTING CONDITIONS PRIOR TO FABRICATION AND INSTALLATION OF NEW

4. PAINT ALL NEW AND EXISTING HOLLOW METAL DOORS AND FRAMES WITHIN THE PROJECT SCOPE

GENERAL DOOR HARDWARE SCHEDULE NOTES

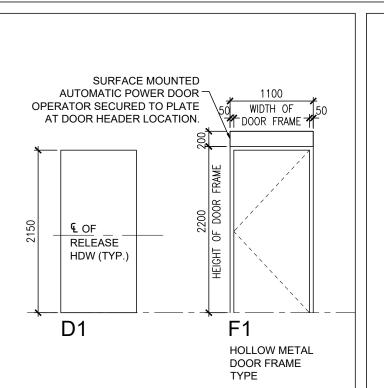
- 1. REFER TO DRAWING 2/A5.1 FOR DOOR ELEVATION TYPE AND DOOR FRAME ELEVATION TYPE.
- 2. SUPPLY AND INSTALLATION OF DOOR HARDWARE AND AUTOMATIC HARDWARE IS CARRIED IN THE PROJECT CASH ALLOWANCE. ELECTRICAL CONNECTIONS TO AUTOMATIC HARDWARE IS CARRIED IN THE BASE BID CONTRACT, NOT THE PROJECT ALLOWANCE.
- 3. REFER TO DETAIL 3/A5.1 FOR DOOR HARDWARE LOCATION.
- 3. REFER TO DETAIL 3/A5.1 FOR DOOR HARDWARE LOCATION.

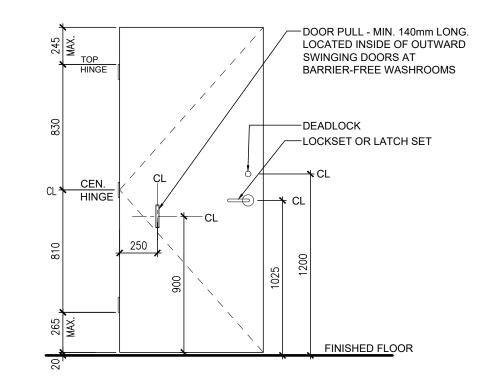
 NOTE THE FOLLOWING:
- AT 1025mm FROM TOP OF FINISHED FLOOR TO CENTER OF LOCKSET/LATCH SET. AT 100mm FROM DOOR SIDE EDGE TO CENTER OF DEADLOCK.
- DOOR HINGES TO BE INSTALLED AS FOLLOWS:
- 1 DOOR AND DOOR FRAME HARDWARE SCHEDULE AND NOTES
- A5.1 N.T.S.



4 HOLLOW METAL FRAMED DOOR DETAILS

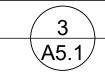
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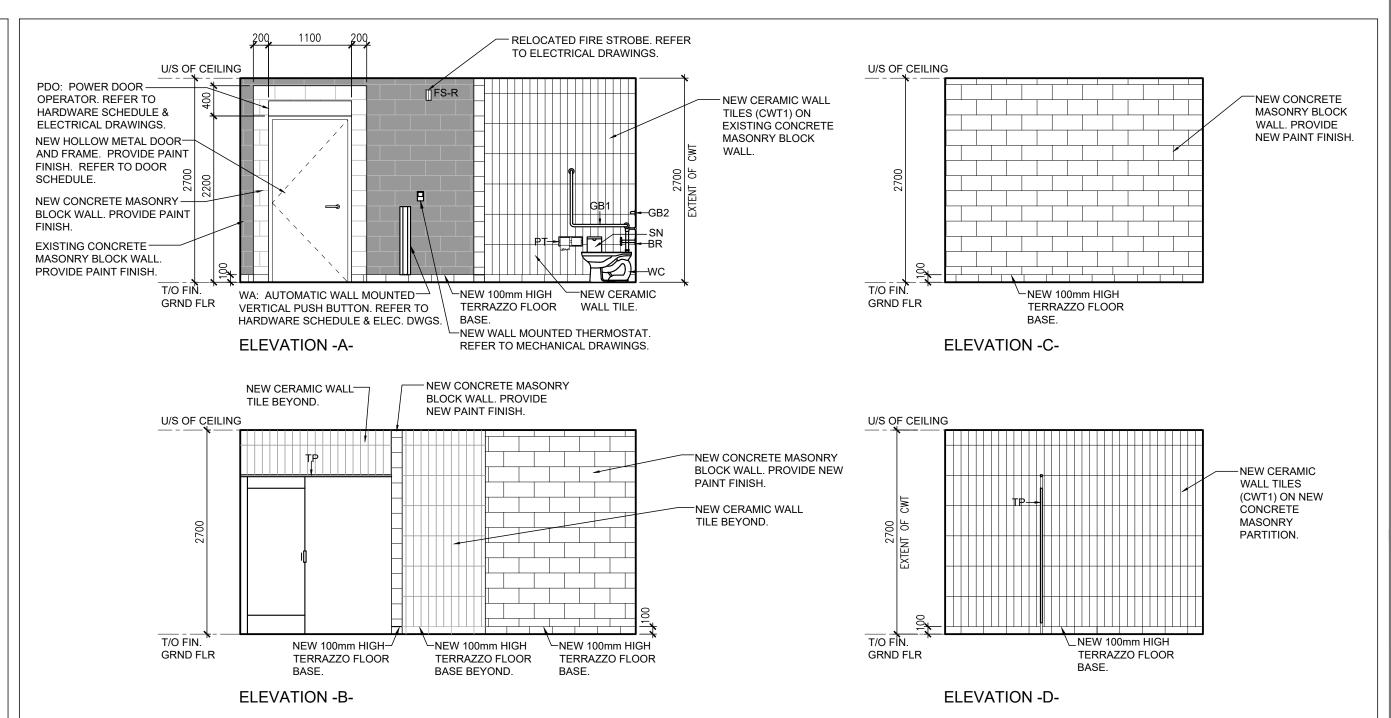


2 A5.1

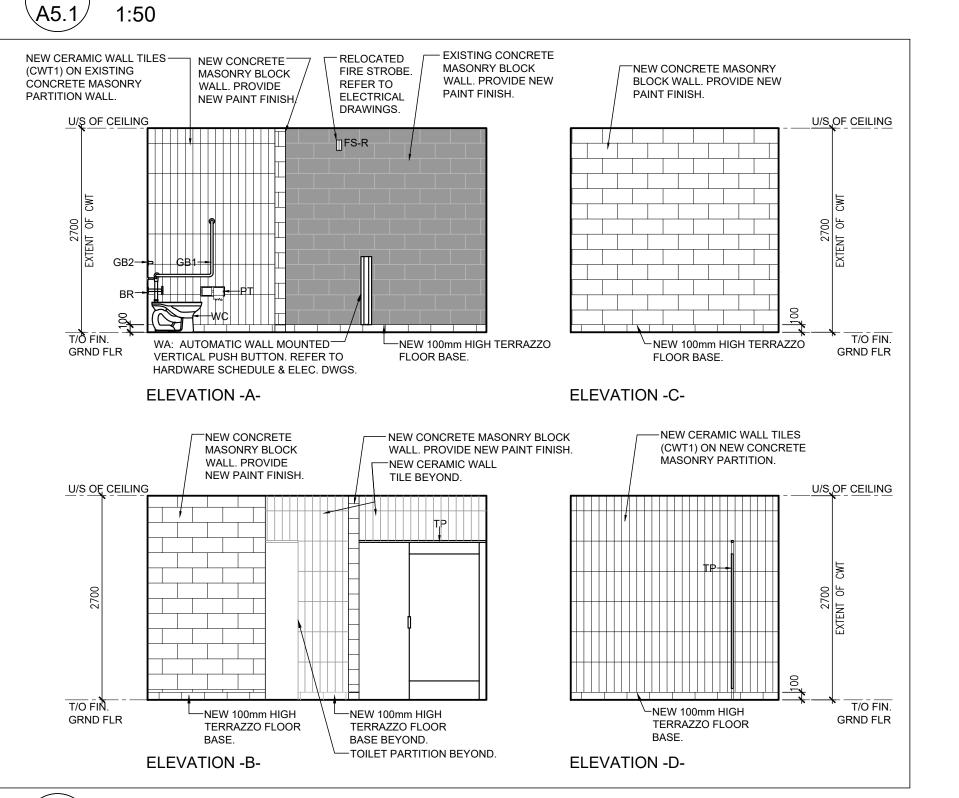
DOOR & DOOR FRAME ELEVATION TYPE 1:50



DOOR HARDWARE LOCATIONS
1:25



5 GIRLS' WASHROOM 121 INTERIOR ELEVATIONS



6 BOY'S WASHROOM INTERIOR ELEVATIONS
1:50

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

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CLASSROOM CEILINGS AND WASHROOM RENOVATIONS
TENDER #24-7550-RFT

WATERLOO REGION DISTRICT SCHOOL BOARD
184 TAIT ST., CAMBRIDGE, ON N1S 3G3

drawing
DOOR & HARDWARE SCHEDULE, DOOR & FRAME ELEVATION TYPES
DOOR DETAILS AND INTERIOR ELEVATIONS
drawing scale

AS NOTED
ward99 project number
23013 - WRDSB TAIT ST CEILINGS

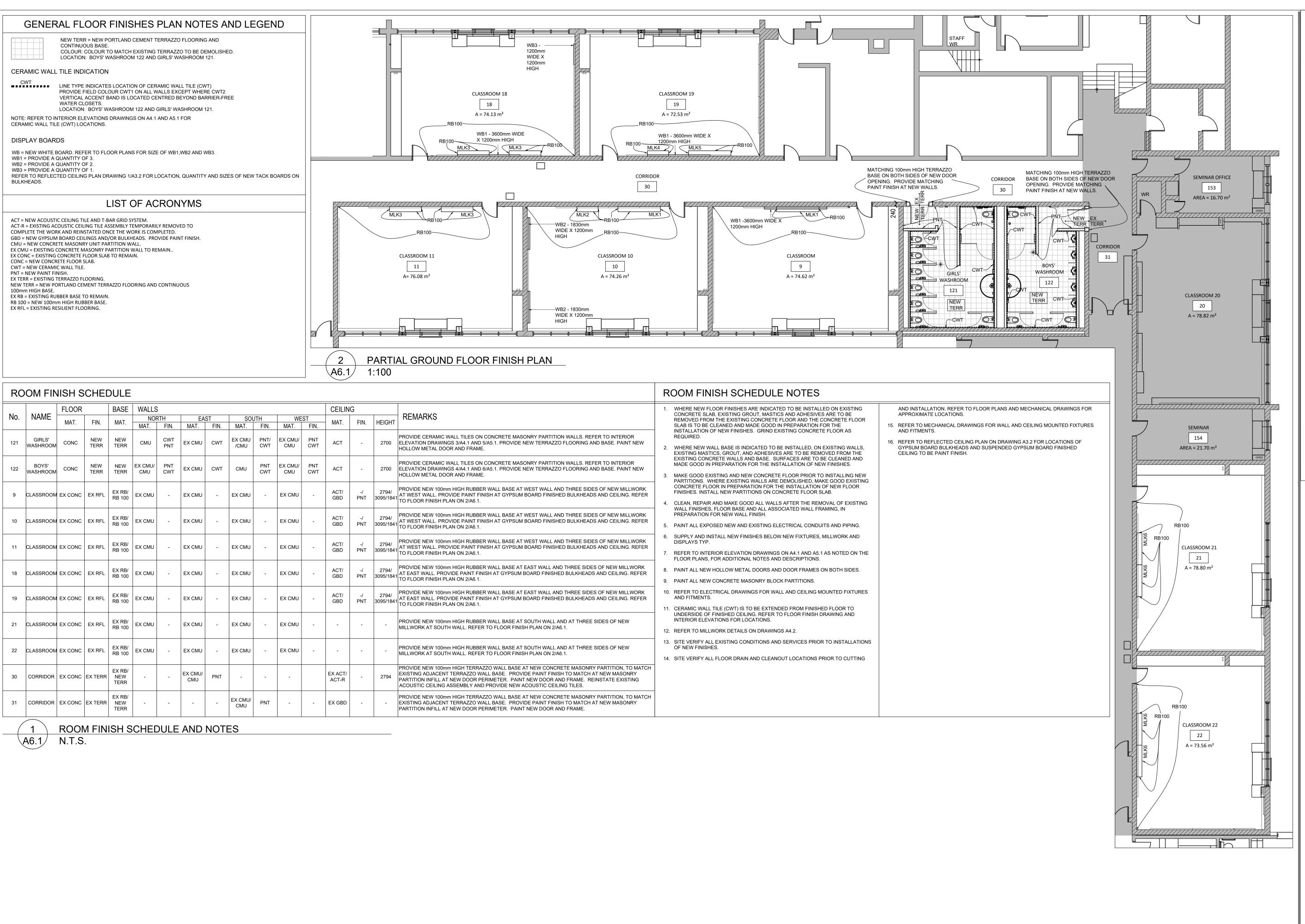
TAIT STREET PUBLIC SCHOOL

warday architects

416 613 5880 www.ward99architects.com

Wa RD₉₉ ward99 architects inc. 7500 Highway 27, Unit 27B Vaughan ON L4H 0J2

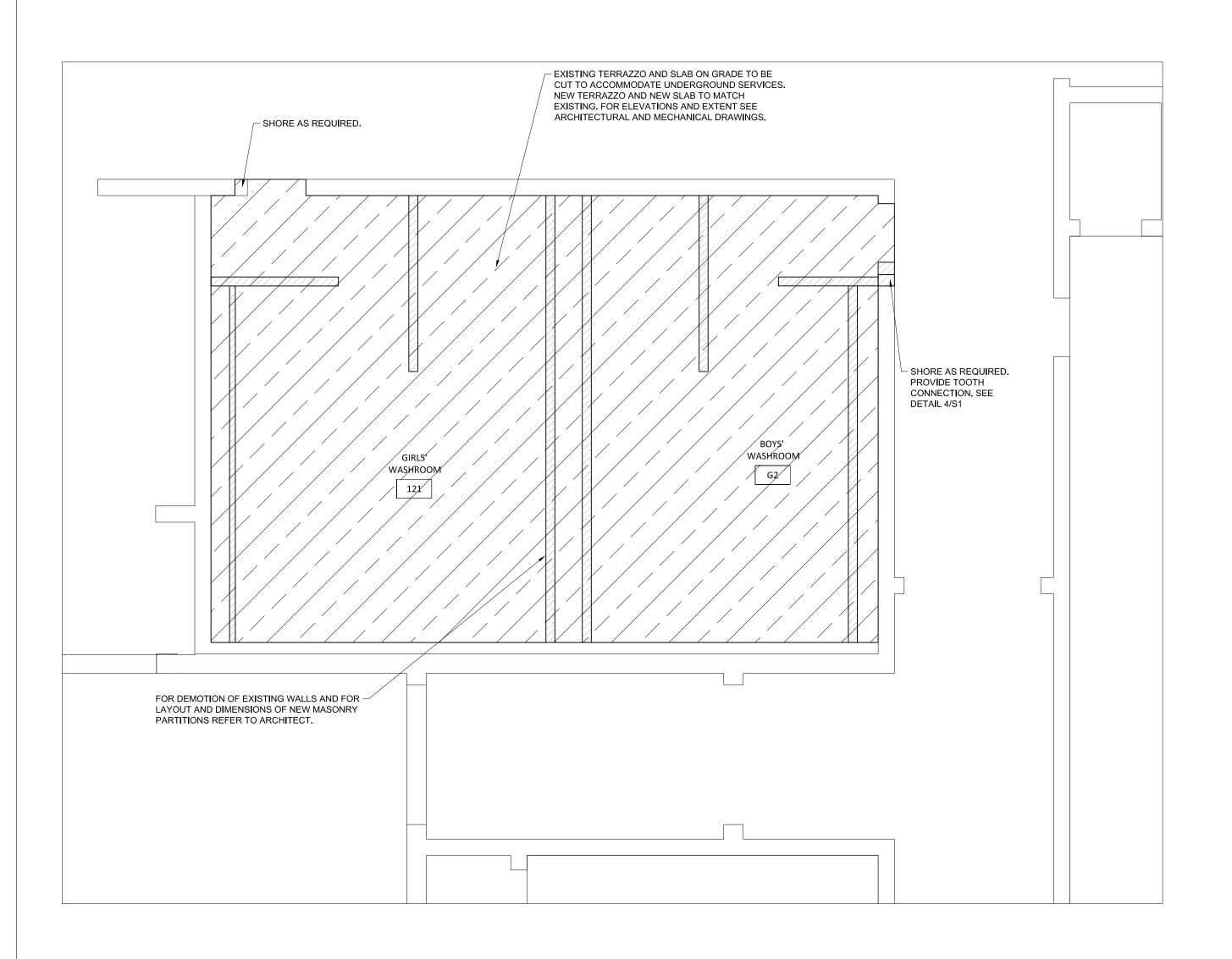
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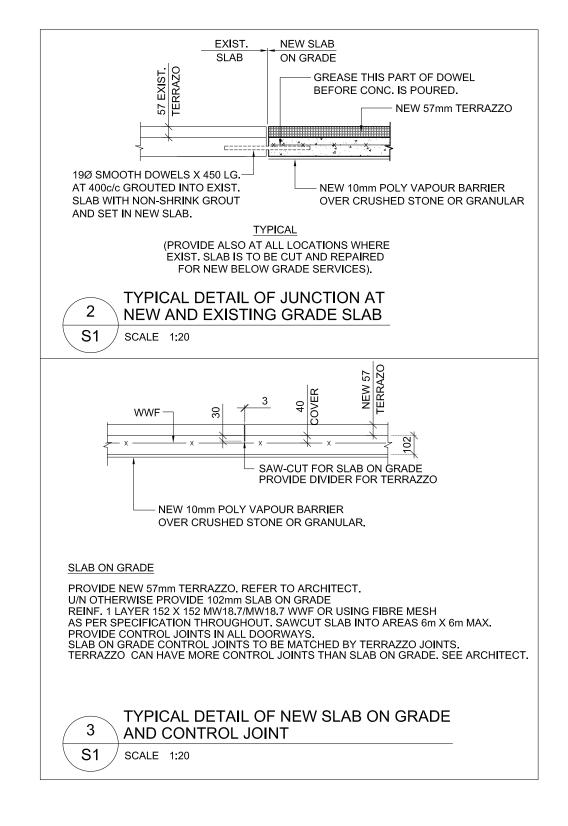


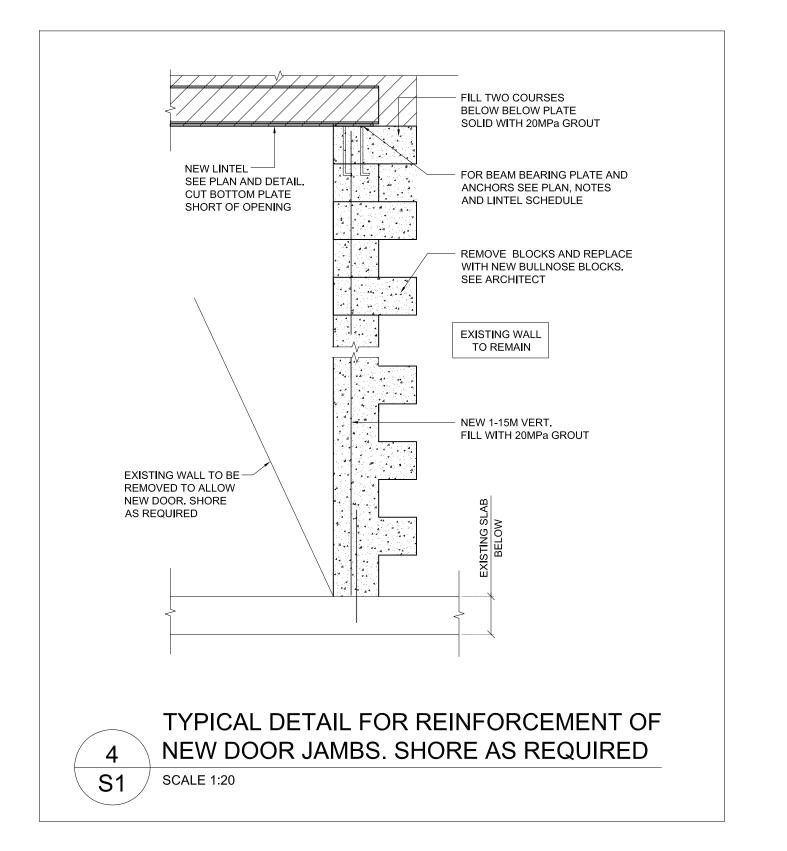
GENERAL NOTES

1. FLOOR STRUCTURE IS EXISTING UNLESS NOTED OTHERWISE. EXISTING BUILDING IS DESIGNED BY JOHN F. ROSS ARCHITECT ON YEAR 1958.

2. ULESS NOTED OTHERWISE PROVIDE NEW 102mm SLAB ON GRADE AS PER SPECIFICATION THROUGHOUT AND AS PER 2/S1. SAWCUT SLAB INTO AREAS 6m x 6m MAX. PROVIDE CONTROL JOINTS IN ALL DOORWAYS. REINF. 1 LAYER 152 X 152 MW18.7/MW18.7 WWF OR USING FIBRE MESH. REFER TO "NEW SLAB ON GRADE" DETAIL ON THIS DRAWING.

3. USE DETAIL 3/S1 AT ALL LOCATIONS WHERE EXISTING SLAB IS TO BE CUT AND REPAIRED AND FOR ALL NEW BELOW GRADE SERVICES.





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WRDSB TAIT STREET PUBLIC SCHOOL CEILINGS RENOVATIONS

VX Engineering project number

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drawing no.

WATERLOO REGION DISTRICT SCHOOL BOARD 184 TAIT ST., CAMBRIDGE, ON N1S 3G3 drawing PART GROUND FLOOR PLAN

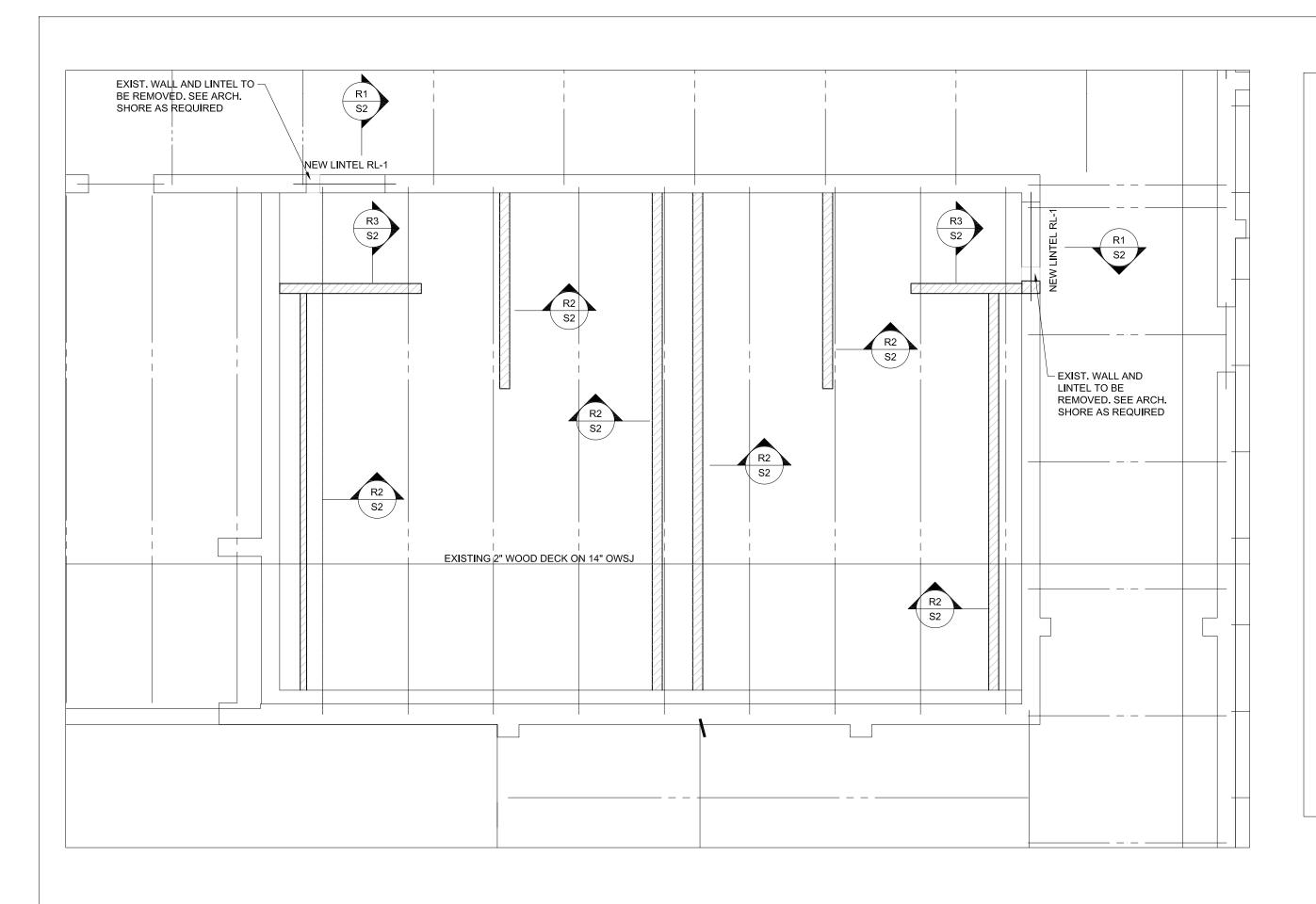
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drawing scale
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PART ROOF FRAMING PLAN

- 1. FOR ROOF SLOPES AND ELEVATIONS SEE ARCHITECTURAL DRAWINGS.
- ROOF STRUCTURE IS EXISTING UNLESS NOTED OTHERWISE. EXISTING FRAMING DATA ARE TAKEN FROM THE ORIGINAL DRAWINGS DESIGNED BY JOHN F. ROSS ARCHITECT ON YEAR 1958. REPORT TO CONSULTANTS DISCREPANCIES AND NECESSARY ADJUSTMENTS DUE TO ACTUAL CONDITIONS BEFORE PROCEEDING WITH WORK...
- 3. SPECIFIED SNOW LOAD IS 1.68kN/m2. ADD DRIFT SNOW AS SHOWN. MULTIPLY SNOW LOADS BY IMPORTANCE FACTOR SEE IMPORTANCE FACTOR TABLE.
- 4. SEE ALSO TYPICAL DETAILS AND GENERAL NOTES ON THESE DRAWINGS.
- 5. UNLESS NOTED OTHERWISE PROVIDE 170 X 12 X 200 BEARING PLATES EACH END OF ALL STEEL BEAMS. ALL BEARING PLATES SHALL BE WITH 2-19Ø WELDED ANCHORS X 250 LG. WELD BEAM TO BEARING PLATES TYPICAL.
- REFER TO OTHER CONSULTANTS DRAWINGS AND SPECIFICATIONS FOR ROOF MOUNTED OR SUSPENDED UNITS. SHOW THE UNITS ON THE STEEL FABRICATORS SHOP DRAWINGS AND OBTAIN ARCHITECTS, MECHANICAL AND OR ELECTRICAL ENGINEERS APPROVAL OF WEIGHTS AND LOCATIONS BEFORE FABRICATION IS STARTED.
- UNLESS NOTED OTHERWISE FOR LINTELS OVER MECHANICAL WALL OPENINGS REFER TO "LINTELS FOR DUCTS AND SERVICES" ON TYPICAL DETAIL SHEET. FOR ALL NEW LINTELS IN EXISTING WALLS CONFIRM WALL THICKNESS BEFORE LINTELS ARE FABRICATED. REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR EXACT LOCATIONS.
- 8. BLOCK VOIDS WITH REINFORCING OR SHOWN AS "FILLED SOLID" SHALL BE FILLED WITH 20MPa CONCRETE WITH PEA GRAVEL OR 20MPa COARSE GROUT.
- 9. WIND LOAD PARAMETERS, AS PER OBC 2012 AND CHANGES 2020, PART 4, $\frac{1}{50}$ WIND PRESSURE 0.36kPa, $\frac{1}{50}$ WIND PRESSURE 0.28kPa.
- 10. SEISMIC LOAD PARAMETERS, AS PER OBC 2012 AND CHANGES 2020, PART 4, EQUIVALENT STATIC ANALYSIS, SHEAR WALL SYSTEM. Sa(0.2)=0.141, Sa(0.5)=0.084, Sa(1.0)=0.047, Sa(2.0)=0.024, Sa(5.0)=0.0058, Sa(10.0)=0.0024, Fa=1.24, Fv=1.55, Ie=1.3, Rd=1.5, Ro=1.5. SOIL CLASS D (ASSUMED), IeFaSa(0.20)=0.227<0.35
- 11. REFER TO "IMPORTANCE FACTOR" TABLE.
- SHORE AS REQUIRED.

IMPORTANCE FACTOR CATEGORY `HIGH'					
	ULS	SLS			
SNOW	1.15	0.9			
WIND	1.15	0.75			
EARTHQUAKE	1.3	1.0			

	ROOF NEW LIN	ITEL SCHED	ULE
MARK	MATERIAL	TYPE	REMARKS
NEW RL-1	W200 X 27 + 240 X 8 PL. BOTT.	EXIST. WALL	STOP BOTT. PL. SHORT OF OPENING & PROVIDE TYPICAL BEARING PLATE E.E. EXTEND 200mm EACH END BUILD TIGHT TO U/S OF EXIST. WAL

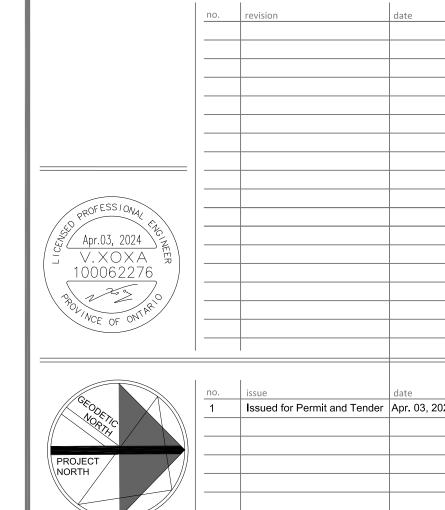
<u>LINTEL NOTES:</u>

- A. GENERAL CONTRACTOR SHALL PROVIDE 38 X 5 X 150 MASONRY TIES WELDED TO BM AT 600 c/c TYP. FOR ALL BEAM LINTELS AND BEAMS IN MASONRY
- B. PROVIDE 1-190 A. BOLTS X 200 LG GROUTED INTO BLOCK VOIDS OF PIERS
- BETWEEN OPENINGS. WHERE APPLICABLE. C. UNLESS NOTED OTHERWISE BOTT. PLATE OF BEAM LINTELS
- SHALL STOP SHORT OF OPENINGS AND BEAM BEARING PLATE SHALL BE PROVIDED. D. FIRST BLOCK COURSE ABOVE STEEL LINTEL SHALL BE FILLED SOLID WITH 20MPa CONCRETE. TYP.



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IS RESPONSIBLE FOR THE VERIFICATION OF ALL SITE CONDITIONS AND SITE MEASUREMENTS THAT ARE NOT

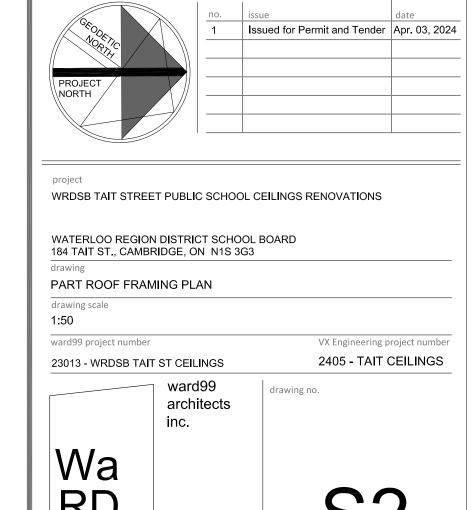


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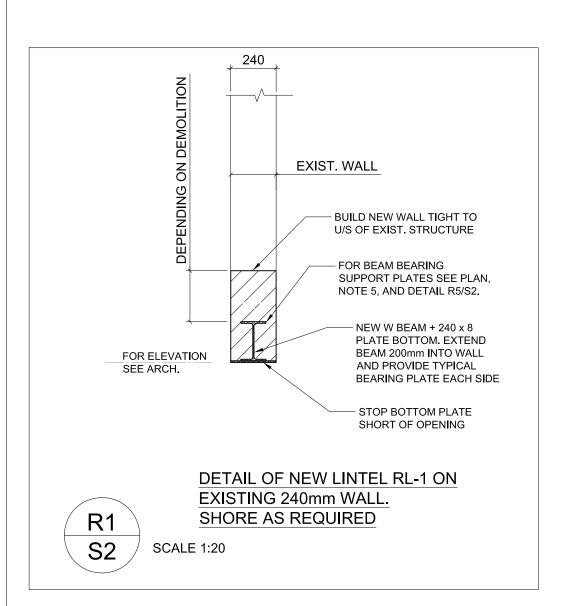
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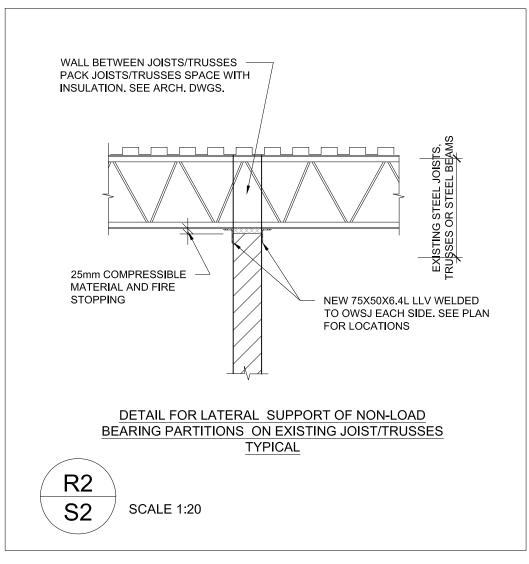
VX ENGINEERING INC STRUCTURAL ENGINEERS VX ENGINEERING inc.

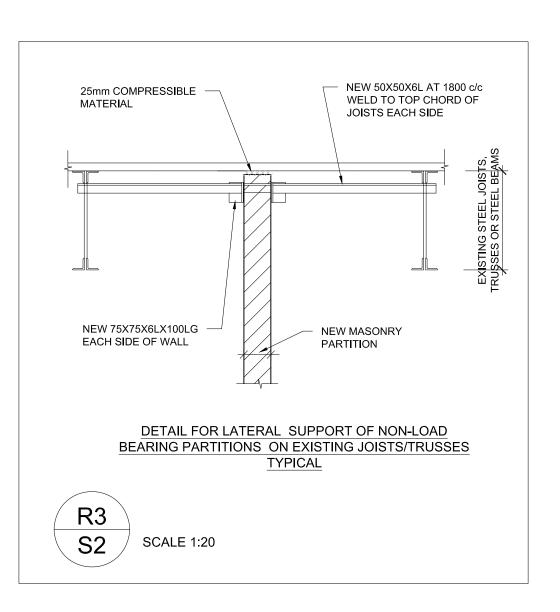
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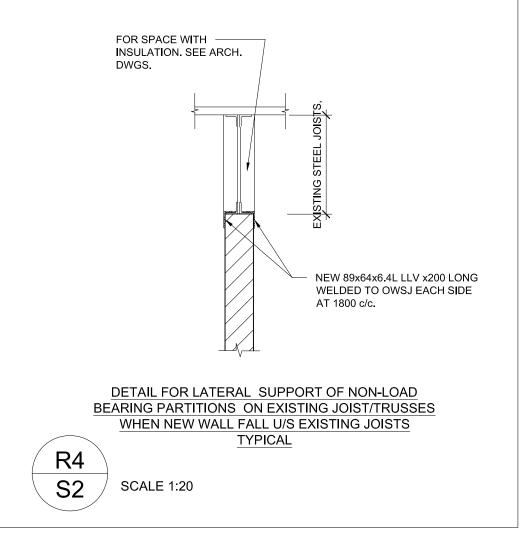


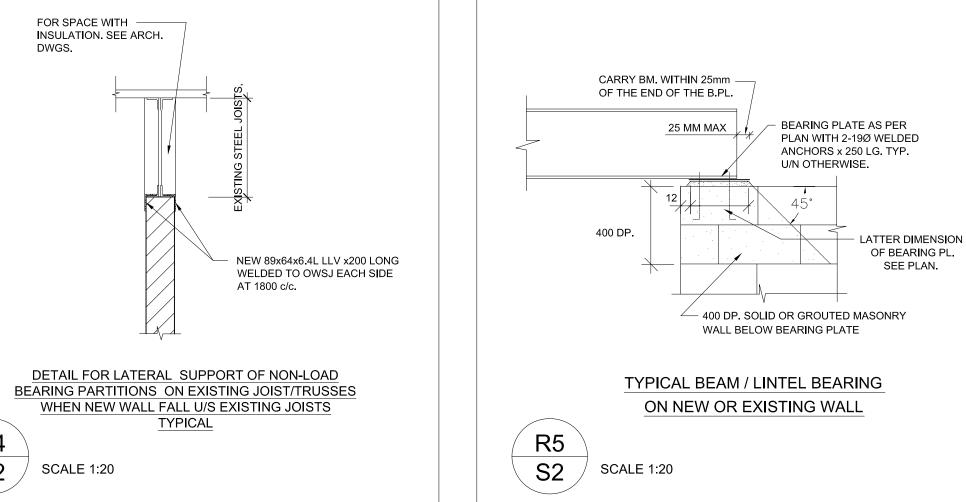


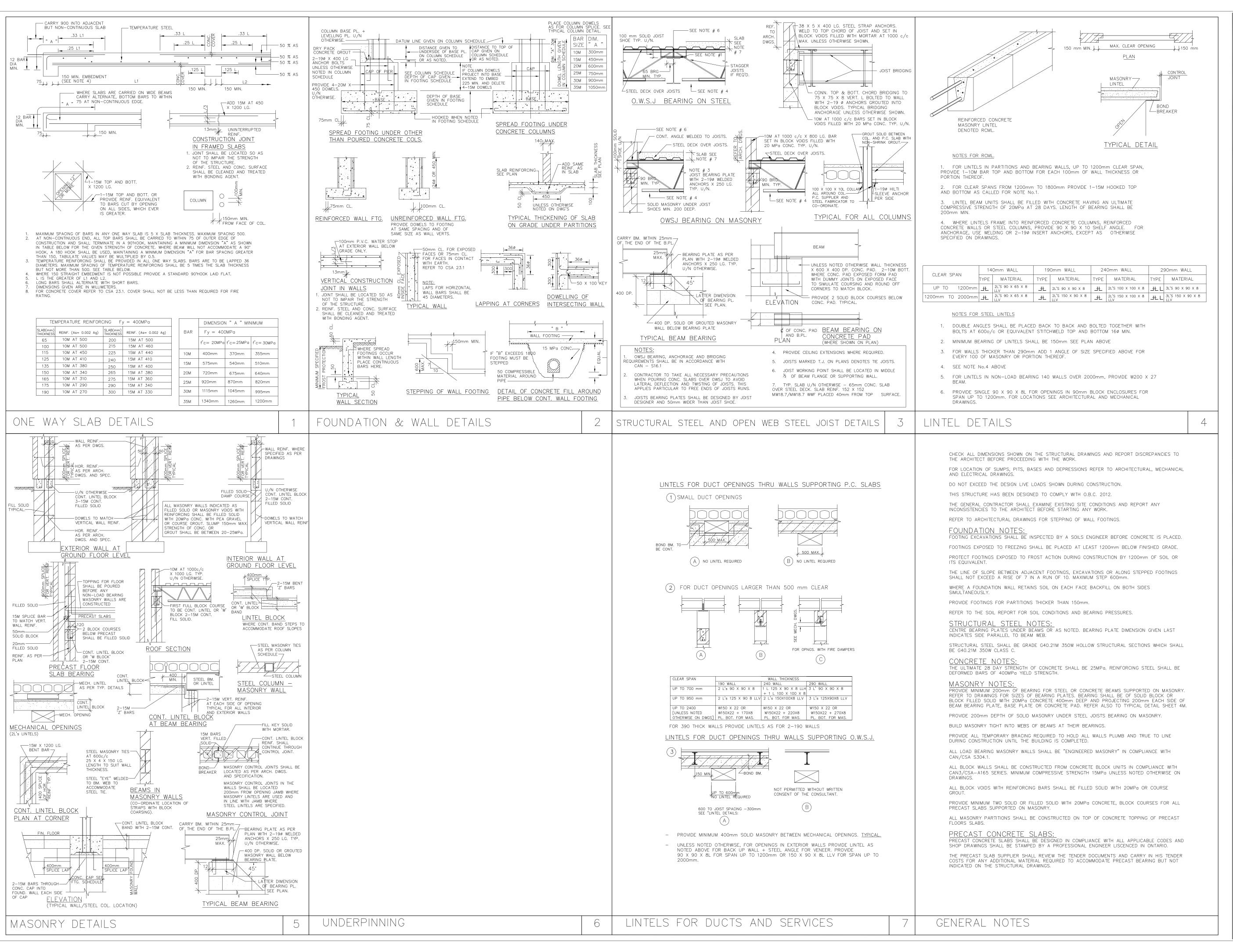












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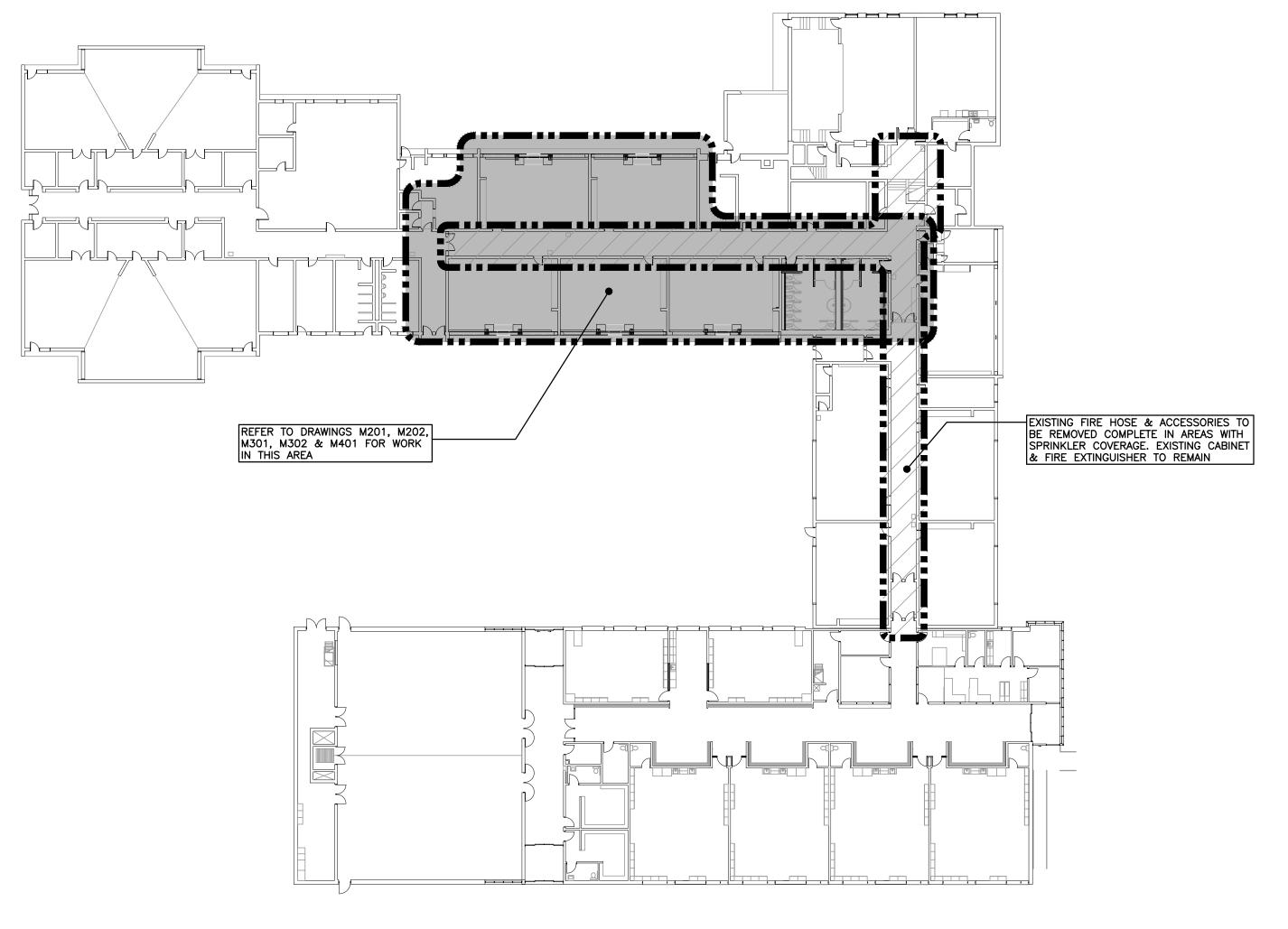
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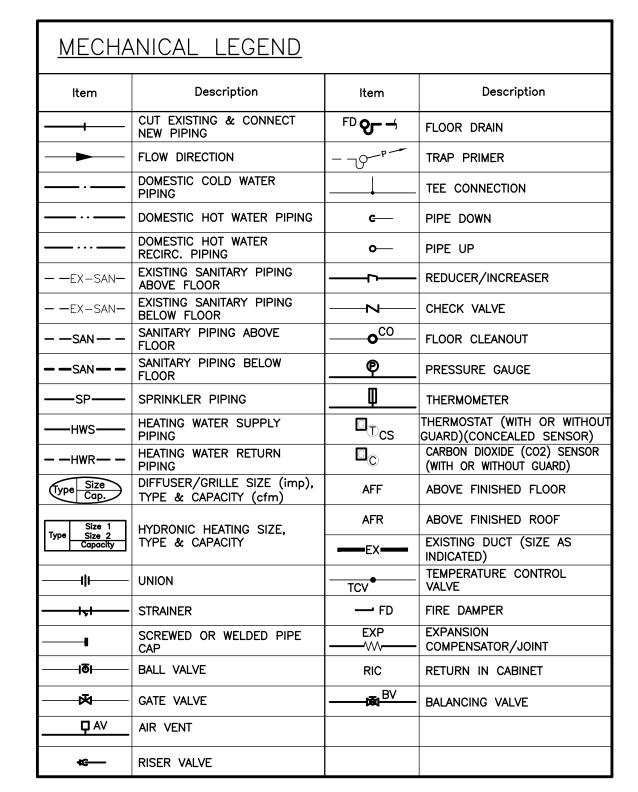


GROUND FLOOR PLAN

KEY PLAN SCALE: N.T.S.

<u>GRIL</u>	LE SCHEDULE			
ltem	Туре	Manufacturer & Model	Finish	Remarks
R1	CEILING RETURN/EXHAUST	KRUEGER S580	BRITISH WHITE	ALUMINUM, C/W SCREWED FASTENING, 1/2" BLADE SPACING, FIXED DEFLECTION

<u>FAN</u>	FAN SCHEDULE											
ltem	Туре	Service	Exha Capacity cfm	iust Air I Size hp	Data SP in. wc	Voltage	Manufacturer	Model	Remarks			
EF-6	INLINE DUCT MOUNTED EXHAUST	GENERAL EXHAUST	2000	1/2	0.50	120/1/60	PENN BARRY	SX115Q1	C/W VIBRATION ISOLATION HANGERS, FACTORY MOUNTED SPEED CONTROLLER, MOTOR GUARD. DVR BY BAS CONTRACTOR.			



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 (SEE SPEC 22 11 16 PART 3)

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

- FIRE PROTECTION ENGINEER'S INSPECTION/CONFORMANCE LETTER - NFPA-13 SPRINKLER CONTRACTOR'S MATERIAL & TEST CERTIFICATE.

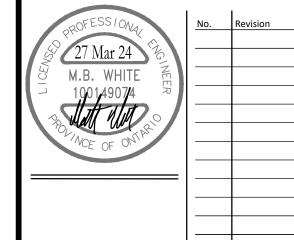


55 Northland Road, Waterloo, ON N2V 1Y8 Phone: 519-725-3555 Website: deiassociates.ca Project Number: 23305

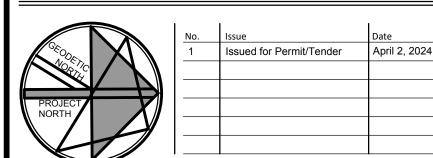
The contractor shall verify all dimensions and report all errors and discrepancies to the Consultant before commencement of the work. The drawings show general arrangement of services. Follow as closely as actual building construction will permit. Obtain approval for relocation of service from Consultant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

may be required. Provide the same to meet the required cońditions. 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. Do not scale this drawing.

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WRDSB TAIT STREET PUBLIC SCHOOL CEILINGS RENOVATIONS

WATERLOO REGION DISTRICT SCHOOL BOARD 184 TAIT STREET, CAMBRIDGE, ON N1S 3G3 drawing KEY PLAN, LEGEND & SCHEDULES

AS NOTED

23013 - WRDSB TAIT ST CEILINGS

architects ward99 architects inc.

info@ward99architects.com

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7500 Highway 27, Unit 27B Vaughan ON L4H 0J2

PLL	<u>imbing fixtui</u>	RE SCHEDULE						
<u> </u>	Tuno	Connection Sizes		Fixture		Trim		Accessories
Item	Туре	HW CW TW Drain Vent	Acceptable Manufacturer	Fixture Description	Acceptable Manufacture	Trim Description	Acceptable Manufacturer	Accessory Description
WC-1	WATER CLOSET FLUSH VALVE (HANDS-FREE)	1 3 1 1/2	AMERICAN STANDARD MADERA 3461.001 KOHLER HIGHCREST ZURN	VITREOUS CHINA, SIPHON JET, ELONGATED RIM, TOP SPUD FOR FLUSH VALVE, BOLT CAP, BOTTOM OUTLET, FLOOR-MOUNTED, 10" OR 12" ROUGH-IN, MIN 2" TRAP WAY, MAXIMUM 6 litres (1.6 gal) PER FLUSH.	DELTA 81T201—HWA MOEN COMMERCIAL SLOAN	EXPOSED, POLISHED CHROME PLATTED, DIAPHRAGM TYPE FLUSH VALVE WITH 25MM (1") SCREWDRIVER ANGLE STOP, MOTORIZED ACTUATOR, AUTOMATIC SENSOR WITH MANUAL PUSH BUTTON OVERRIDE, VACUUM BREAKER ADJUSTABLE TAIL PIECE, RECESSED WALL MOUNTED JUNCTION BOX, FLUSH CONNECTION & COUPLING FOR 40MM (1 1/2") TOP SPUD, WALL AND SPUD ESCUTCHEINS. HARDWIRED OPERATED POWER CONVERTOR, SENSOR BOX C/W COVER, VANDAL RESISTANT SCREWS, FLUSH CYCLE SET FOR 6.0 LITRES (1.6 GAL) PER FLUSH.	SEAT: CENTOCO AM500STSCCSS BEMIS	SEAT: BLACK, ELONGATED, OPEN FRONT, LESS COVER, MOLDED SOLID ANTIMICROBIAL PLASTIC, STAINLESS STEEL CHECK HINGES, STAINLESS STEEL OR SOLID BRASS INSERT POST. MIN. 1000 MAP PERFORMANCE.
WC-2	BARRIER FREE WATER CLOSET FLUSH VALVE, 16" HIGH (HANDS-FREE)		AMERICAN STANDARD MADERA 3043.001 KOHLER HIGHCREST K-4302 ZURN	BARRIER FREE, 16" TALL TO RIM, VITREOUS CHINA, SIPHON JET, ELONGATED RIM, TOP SPUD FOR FLUSH VALVE, BOLT CAP, BOTTOM OUTLET, FLOOR-MOUNTED, 10" OR 12" ROUGH-IN, MIN 2" TRAP WAY, MAXIMUM 6 litres (1.6 gal) PER FLUSH.	DELTA 81T201-WMSHWA MOEN COMMERCIAL SLOAN	EXPOSED, POLISHED CHROME PLATTED, DIAPHRAGM TYPE FLUSH VALVE WITH 25MM (1") SCREWDRIVER ANGLE STOP, MOTORIZED ACTUATOR, AUTOMATIC SENSOR WITH MANUAL PUSH BUTTON OVERRIDE, VACUUM BREAKER ADJUSTABLE TAIL PIECE, AUTOMATIC 8 HR COURTESY FLUSH, RECESSED WALL MOUNTED SENSOR BOX, FLUSH CONNECTION & COUPLING FOR 40MM (1 1/2") TOP SPUD, WALL AND SPUD ESCUTCHEINS. HARDWIRED OPERATED POWER CONVERTOR, SENSOR BOX C/W COVER, VANDAL RESISTANT SCREWS, FLUSH CYCLE SET FOR 6.0 LITRES (1.6 GAL) PER FLUSH (NON-ADJUSTABLE).	SEAT: CENTOCO AM500STS BEMIS	SEAT: BLACK, ELONGATED, OPEN FRONT LESS COVER, MOLDED SOLID ANTIMICROBIAL PLASTIC, STAINLESS STEEL CHECK HINGES, STAINLESS STEEL OR SOLID BRASS INSERT POST. REFER TO ARCHITECTURAL DOCUMENTS FOR VERTICAL BACKREST. MIN. 1000 MAP PERFORMANCE.
U-1	URINAL FLUSH VALVE, HANDS FREE	3/4 2 1 1/2	AMERICAN STANDARD WASHBROOK 6590.005 KOHLER BARDON K-4904-ET ZURN Z5750	VITREOUS CHINA, WASHOUT TYPE, INTEGRAL FLUSHING RIM, EXTENDED SHIELDS, INTEGRAL TRAP, BACK OUTLET, WALL-MOUNTED, TOP SUPPLY SPUD, MIN 2" TRAP WAY, MAXIMUM 1.9 litres (0.5 gal) PER FLUSH. C/W FLOOR MOUNTED CARRIER	DELTA 81T231-WMSHW SLOAN 186 ES-S-0.5 MOEN COMMERCIAL	POLISHED CHROME PLATED VANDAL RESISTANT METAL COVER WITH HARDWIRED WALLMOUNTED SENSOR, RIGHT OR LEFT—HAND SUPPLY INSTALLATION, AUTOMATIC OPERATION HARDWIRE POWERED SENSOR. INFRARED SENSOR TO HAVE A RANGE ADJUSTMENT OF 305MM — 711MM (12"— 28") AND ELECTRONIC MANUAL OVERRIDE BUTTON. FLUSH CYCLE SET .9 LITRE (0.50 GAL.)		
WF-1	B.F. WASH FOUNTAIN	1/2 1/2 1 1/2 1 1/4	BRADLEY SENTRY SN2004-A-IR-STD-TMA-NSD-BS	BARRIER FREE SEMI—CIRCULAR STAINLESS STEEL BOWL. ALL EXPOSED COMPONENTS TO BE STAINLESS STEEL. SUITABLE FOR FOUR (4) USERS. STANDARD PEDESTAL HEIGHT. C/W BACKSPLASH. TRIM: INFRARED CONTROLLED, AT EACH INDIVIDUAL USER, MOLDED SPRAYHEAD, STOP VALVES, HORIZONTAL SWING CHECK VALVES, THERMOSTATIC MIXING VALVE PRESET AT 40°C. NO SOAP DISPENSER. SUITABLE FOR 120 V/1/60 COMPLETE WITH CLASS II 120/24V PLUG IN TRANSFORMER. COLOUR BY ARCHITECT.				
FD-1	FLOOR DRAIN		ZURN ZN415B MIFAB F1100-C CONTOUR C2000-R6 WATTS FD-100-C-A	GENERAL DUTY CAST IRON BODY, ADJUSTABLE HEAD, NICKEL BRONZE STRAINER, INTEGRAL SEEPAGE PAN, AND CLAMPING COLLAR. USE SQUARE STRAINER IN TILED AREAS AND ROUND STRAINER ELSEWHERE. C/W TRAP PRIMER				



55 Northland Road, Waterloo, ON N2V 1Y8 Phone: 519-725-3555 Website: deiassociates.ca Project Number: 23305

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

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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WRDSB TAIT STREET PUBLIC SCHOOL CEILINGS RENOVATIONS

WATERLOO REGION DISTRICT SCHOOL BOARD 184 TAIT STREET, CAMBRIDGE, ON N1S 3G3 drawing SCHEDULES

drawing scale
AS NOTED

23013 - WRDSB TAIT ST CEILINGS

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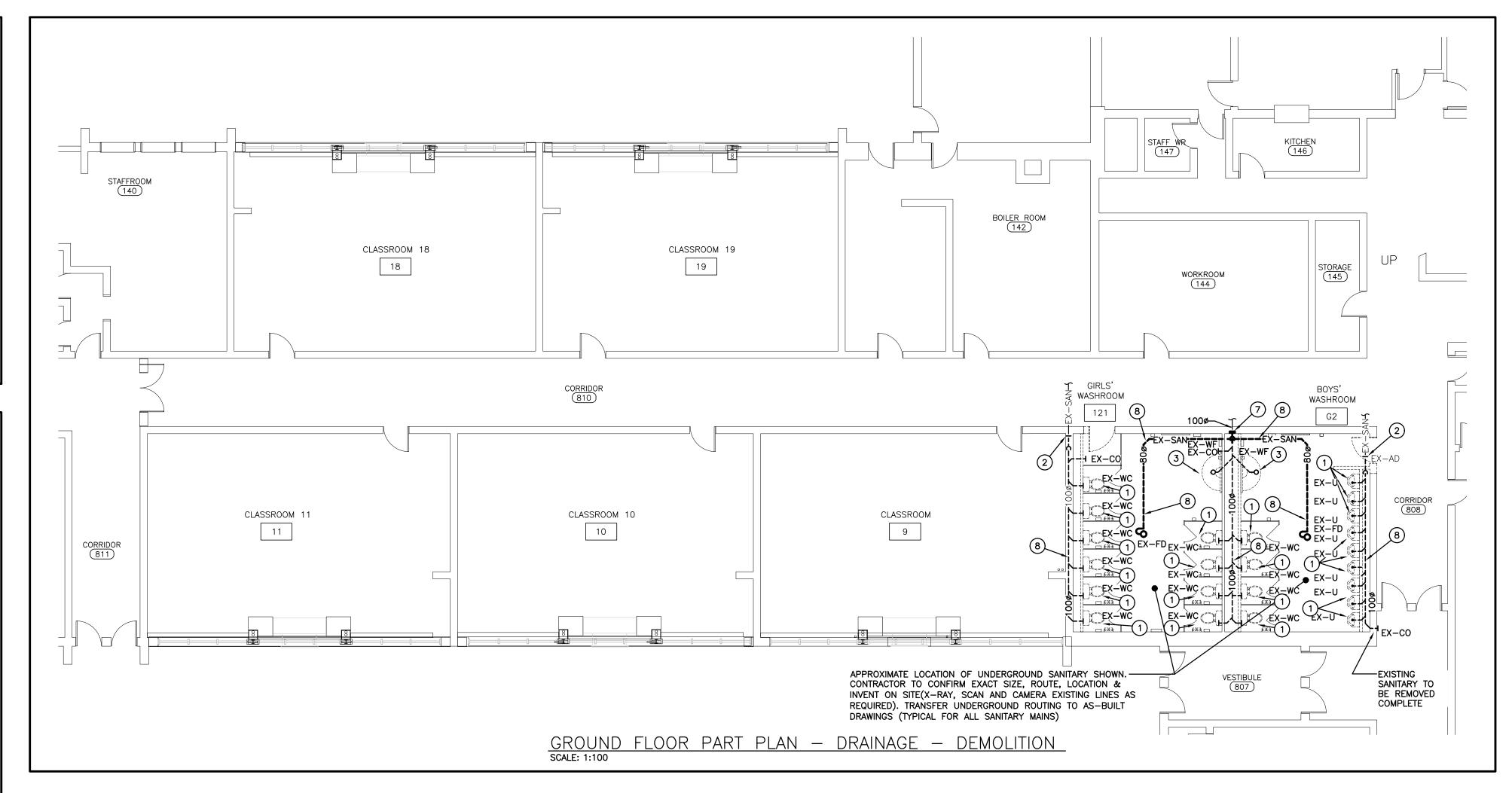
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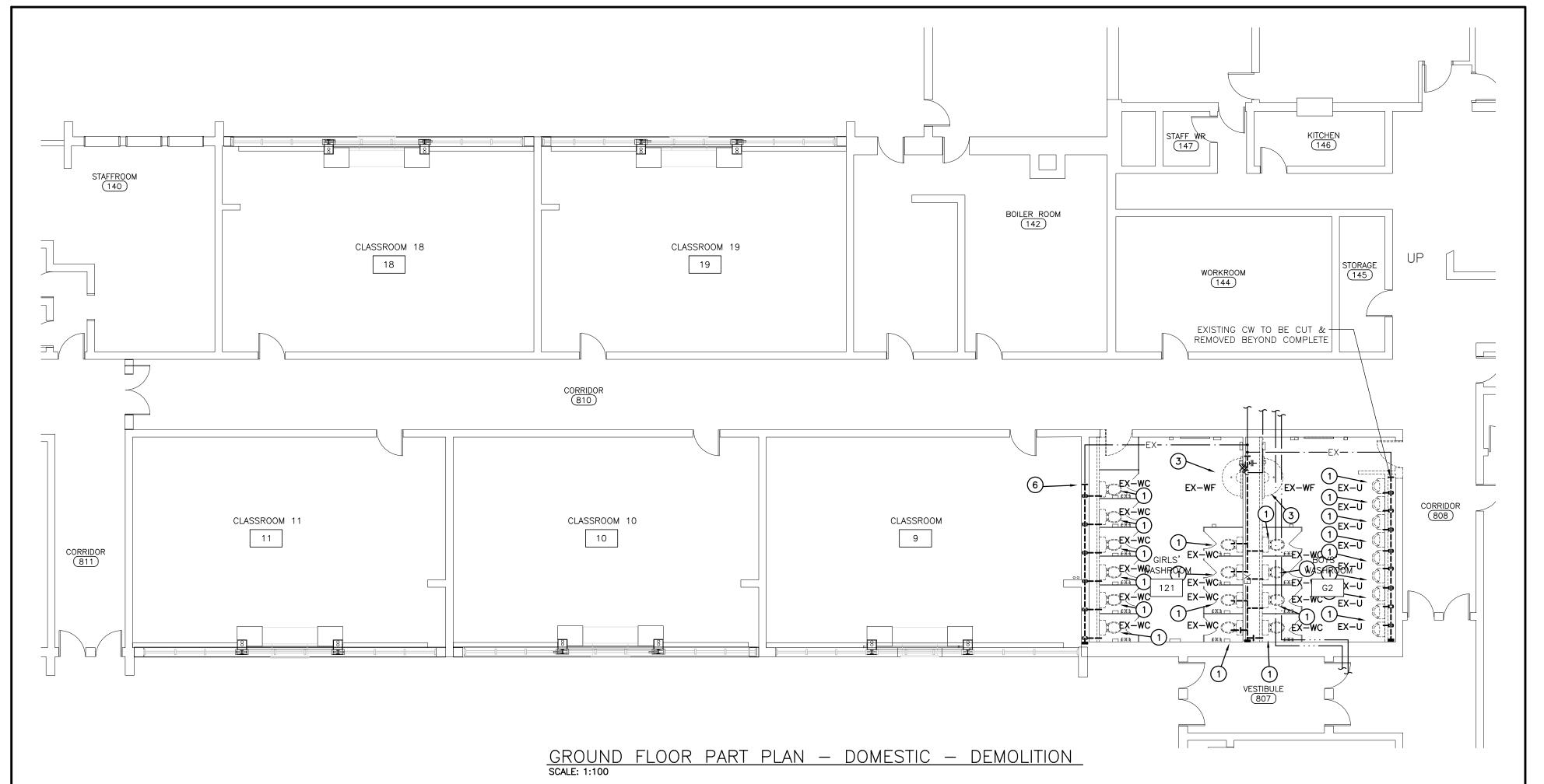
GENERAL DEMOLITION NOTES

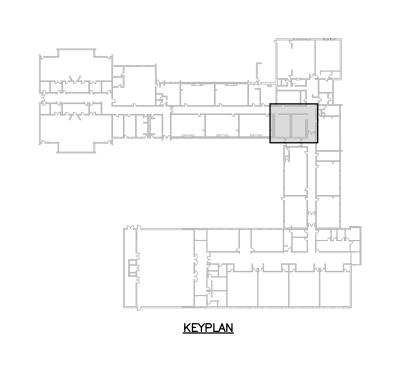
- EXISTING MECHANICAL ITEMS NOT SHOWN SHALL REMAIN UNLESS NOTED
 OTHERWISE
- EXISTING MECHANICAL ITEMS SHOWN BUT NOT NOTED AS BEING REMOVED OR RENOVATED SHALL REMAIN AS PRESENTLY INSTALLED AND OPERATING.
- THIS CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ON SITE ALL LOCATIONS AND SIZES OF ALL SERVICES & EQUIPMENT PRIOR TO THE COMMENCEMENT OF WORK.
- ALL OPENINGS THAT RESULT FROM THE REMOVAL OF EQUIPMENT OR SERVICES SHALL BE NEATLY PATCHED WITH SUITABLE NEW MATERIALS TO SUIT EXISTING CONSTRUCTION.
- PLUMBING VENTS ARE NOT INDICATED OR IDENTIFIED. REMOVE ALL REDUNDANT VENTS WHILE MAINTAINING INTEGRITY OF EXISTING SYSTEMS TO REMAIN.
- REMOVAL OF EXISTING PIPING, OR DUCT SYSTEMS INCLUDES REMOVAL OF ALL HANGERS, INSULATION, FITTINGS, ETC.
- MAINTAIN INTEGRITY OF EXISTING SYSTEMS THAT ARE TO REMAIN OR BE MODIFIED.
- INSTALL NEW SYSTEM OR SERVICES WHERE REQUIRED TO MAINTAIN SYSTEM OPERATION PRIOR TO DEMOLITION OF EXISTING SERVICES.
- THIS CONTRACTOR IS TO REMOVE & REPLACE CEILINGS AS REQUIRED FOR REMOVAL/REPLACEMENT OF SERVICES.
- CONTRACTOR TO CARRY IN THEIR PRICING TO DRAIN SYSTEM OR FREEZE PIPING TO COMPLETE WORK

SPECIFIC DEMOLITION NOTES

- 1. EXISTING PLUMBING FIXTURE TO BE REMOVED COMPLETE. EXISTING SANITARY, VENTING & DOMESTIC PIPING TO BE REMOVED COMPLETE.
- 2. EXISTING SANITARY PIPING TO BE CUT & REMOVED BEYOND COMPLETE.
- 3. EXISTING PLUMBING FIXTURE TO BE REMOVED COMPLETE. EXISTING SANITARY & VENTING TO BE CUT & CAPPED IN CONCEALED LOCATION AND DOMESTIC PIPING TO BE REMOVED COMPLETE.
- 4. EXISTING THERMOSTAT & CONTROL WIRING/TUBING TO REMOVED COMPLETE/ BACK TO SOURCE. SOLDER/CRIMP IN CONCEALED LOCATIONS.
- 5. EXISTING GRILLE TO BE REMOVED COMPLETE.
- 6. EXISTING DOMESTIC PIPING TO BE CUT & REMOVED BEYOND COMPLETE.
- 7. EXISTING SANITARY PIPING TO BE CUT & CAPPED AND REMOVED BEYOND COMPLETE.
- 8. EXISTING SANITARY PIPING TO BE REMOVED COMPLETE.
- EXISTING ISOLATION & BALANCING VALVES TO BE REMOVED COMPLETE AND REPLACED WITH NEW. EXISTING THERMOSTAT/CONTROL WIRING TO BE REPLACED WITH NEW.
- 10. EXISTING DUCTWORK TO BE REMOVED COMPLETE.
- 11. EXISTING DUCTWORK TO BE CUT AND CAPPED & REMOVED BEYOND COMPLETE.
- 12. EXISTING EXHAUST FAN TO BE REVISED/REPLACED TO SUIT REMAINING/EXISTING EXHAUST AIRFLOW CAPACITY. RE-BALANCE EXISTING GRILLES TO SUIT FAN CAPACITY.
- 13. EXISTING HEATER AND ASSOCIATED CONTROLS & WIRING TO BE REMOVED COMPLETE. CUT AND CAP EXISTING HWS & HWR PIPING AT MAIN.









Consulting Engineers

55 Northland Road, Waterloo, ON N2V 1Y8
Phone: 519-725-3555
Website: deiassociates.ca
Project Number: 23305

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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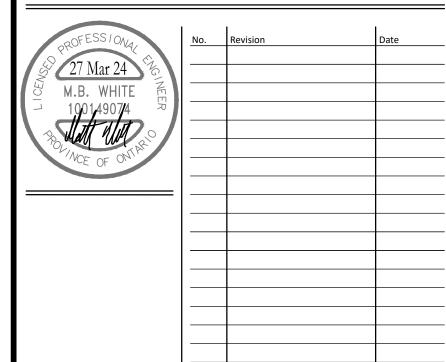
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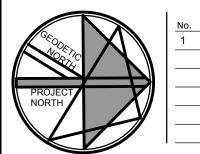
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NOTE: THIS DRAWING IS NOT TO BE SCALED. THE CONTRACTOR

IS DESPONSIBLE FOR THE VERBLICATION OF ALL SITE

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





WRDSB TAIT STREET PUBLIC SCHOOL CEILINGS RENOVATIONS

Issued for Permit/Tender

April 2, 2024

WATERLOO REGION DISTRICT SCHOOL BOARD 184 TAIT STREET, CAMBRIDGE, ON N1S 3G3 drawing

architects

drawing scale
AS NOTED

23013 - WRDSB TAIT ST CEILINGS

WaRD₉₉
ward99 architects inc.
7500 Highway 27, Unit 27B
Vaughan ON L4H 0J2

info@ward99architects.com

416 613 5880 www.ward99architects.com

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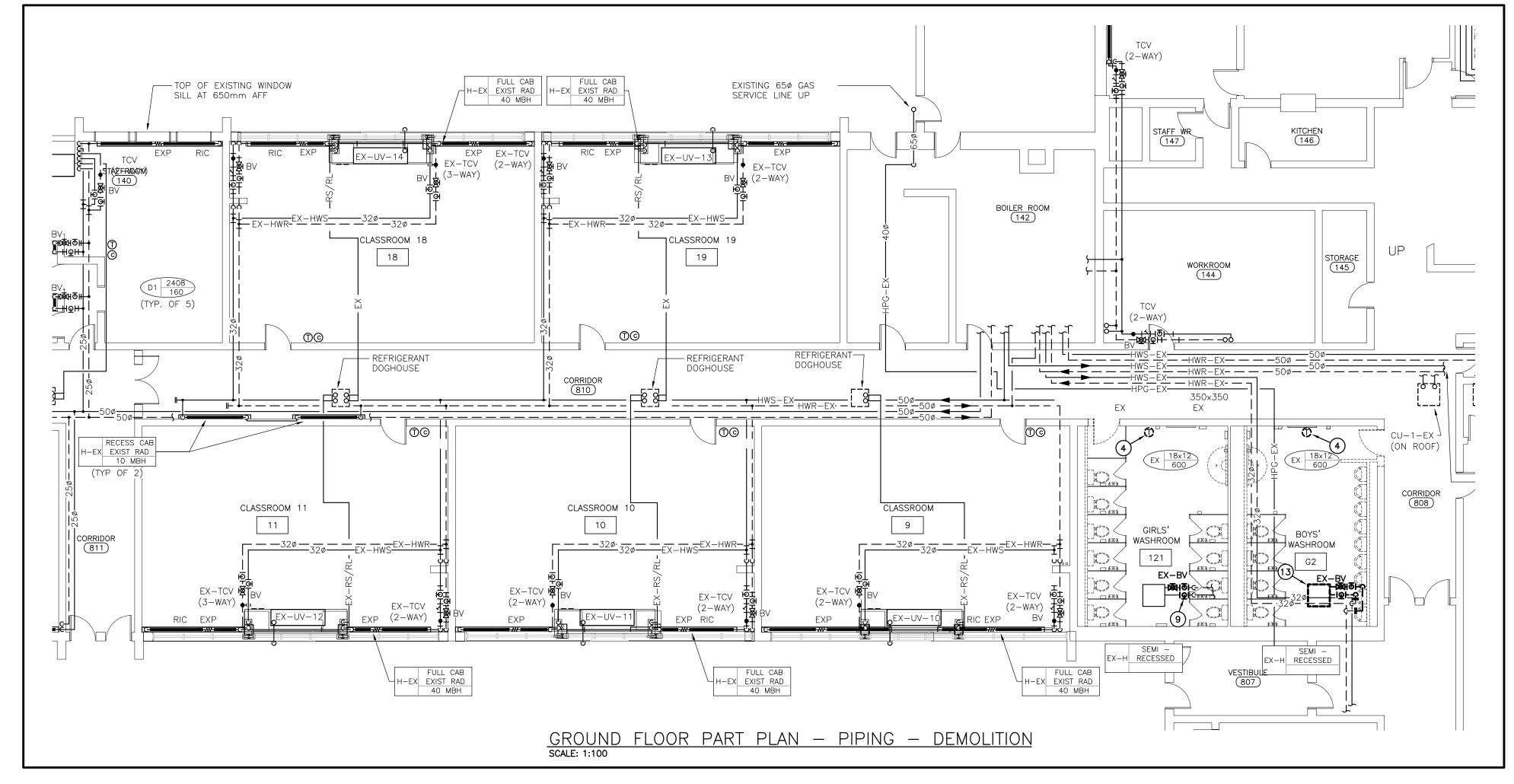
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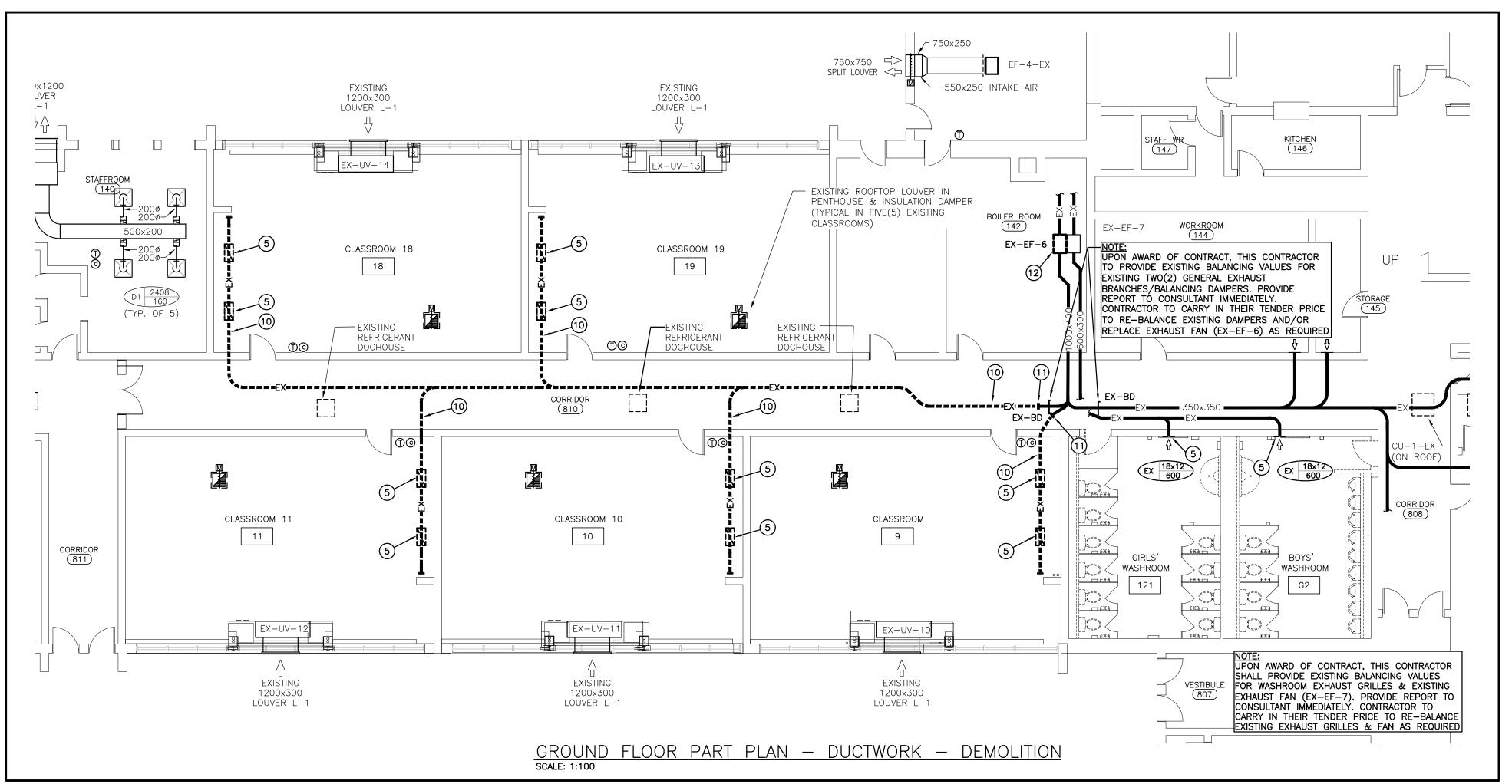
GENERAL DEMOLITION NOTES

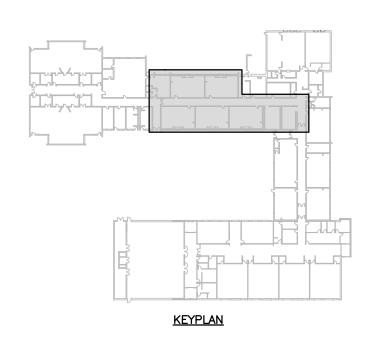
- EXISTING MECHANICAL ITEMS NOT SHOWN SHALL REMAIN UNLESS NOTED
- EXISTING MECHANICAL ITEMS SHOWN BUT NOT NOTED AS BEING REMOVED OR RENOVATED SHALL REMAIN AS PRESENTLY INSTALLED AND OPERATING.
- THIS CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ON SITE ALL LOCATIONS AND SIZES OF ALL SERVICES & EQUIPMENT PRIOR TO THE COMMENCEMENT OF WORK.
- ALL OPENINGS THAT RESULT FROM THE REMOVAL OF EQUIPMENT OR SERVICES SHALL BE NEATLY PATCHED WITH SUITABLE NEW MATERIALS TO SUIT EXISTING CONSTRUCTION.
- PLUMBING VENTS ARE NOT INDICATED OR IDENTIFIED. REMOVE ALL REDUNDANT VENTS WHILE MAINTAINING INTEGRITY OF EXISTING SYSTEMS
- REMOVAL OF EXISTING PIPING, OR DUCT SYSTEMS INCLUDES REMOVAL OF ALL HANGERS, INSULATION, FITTINGS, ETC.
- MAINTAIN INTEGRITY OF EXISTING SYSTEMS THAT ARE TO REMAIN OR BE MODIFIED.
- INSTALL NEW SYSTEM OR SERVICES WHERE REQUIRED TO MAINTAIN SYSTEM OPERATION PRIOR TO DEMOLITION OF EXISTING SERVICES.
- THIS CONTRACTOR IS TO REMOVE & REPLACE CEILINGS AS REQUIRED FOR REMOVAL/REPLACEMENT OF SERVICES.
- CONTRACTOR TO CARRY IN THEIR PRICING TO DRAIN SYSTEM OR FREEZE PIPING TO COMPLETE WORK

SPECIFIC DEMOLITION NOTES

- EXISTING PLUMBING FIXTURE TO BE REMOVED COMPLETE. EXISTING SANITARY, VENTING & DOMESTIC PIPING TO BE REMOVED COMPLETE.
- 2. EXISTING SANITARY PIPING TO BE CUT & REMOVED BEYOND COMPLETE.
- 3. EXISTING PLUMBING FIXTURE TO BE REMOVED COMPLETE. EXISTING SANITARY & VENTING TO BE CUT & CAPPED IN CONCEALED LOCATION AND DOMESTIC PIPING TO BE REMOVED COMPLETE.
- 4. EXISTING THERMOSTAT & CONTROL WIRING/TUBING TO REMOVED
- COMPLETE/ BACK TO SOURCE. SOLDER/CRIMP IN CONCEALED LOCATIONS. 5. EXISTING GRILLE TO BE REMOVED COMPLETE.
- 6. EXISTING DOMESTIC PIPING TO BE CUT & REMOVED BEYOND COMPLETE.
- 7. EXISTING SANITARY PIPING TO BE CUT & CAPPED AND REMOVED BEYOND COMPLETE.
- 8. EXISTING SANITARY PIPING TO BE REMOVED COMPLETE.
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Consulting Engineers MECHANICAL | ELECTRICAL | AQUATIC

55 Northland Road, Waterloo, ON N2V 1Y8 Phone: 519-725-3555 Website: deiassociates.ca Project Number: 23305

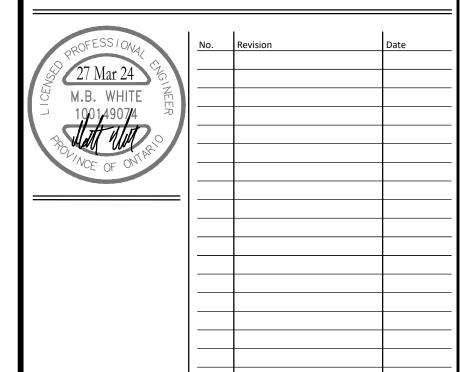
The contractor shall verify all dimensions and report all errors and discrepancies to the Consultant before commencement of the work. The drawings show general arrangement of services. Follow as closely as actual building construction will permit. Obtain approval for relocation of service from Consultant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

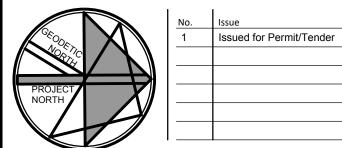
may be required. Provide the same to meet the required Drawings and specifications, etc., prepared and issued by the consultant are the property of the consultant and must be returned at the completion of the project. These documents are not to be duplicated or copied without the consent of the Consultant.

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WRDSB TAIT STREET PUBLIC SCHOOL CEILINGS RENOVATIONS

WATERLOO REGION DISTRICT SCHOOL BOARD 184 TAIT STREET, CAMBRIDGE, ON N1S 3G3 GROUND FLOOR PART PLANS - DEMOLITION - HEATING &

drawing scale AS NOTED

ward99 project number 23013 - WRDSB TAIT ST CEILINGS

architects Wa RD_{99}

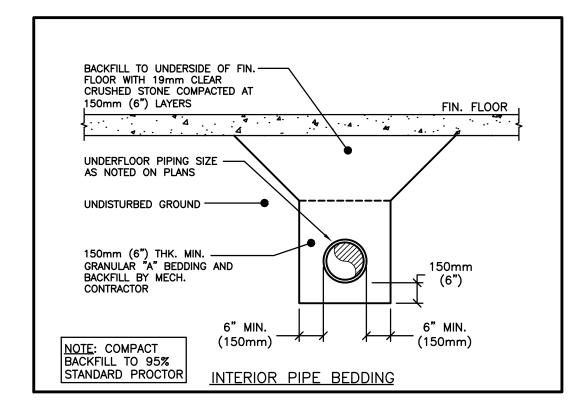
ward99 architects inc. 7500 Highway 27, Unit 27B Vaughan ON L4H 0J2 info@ward99architects.com

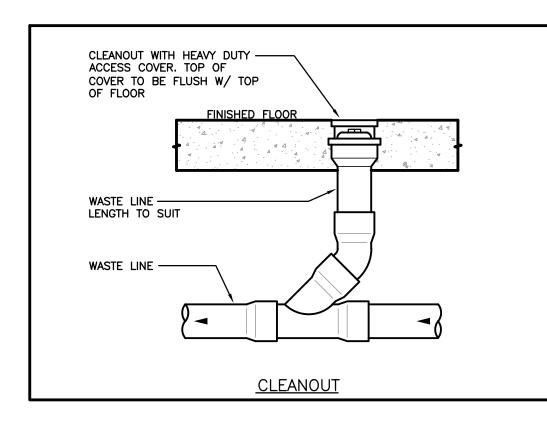
416 613 5880 www.ward99architects.com

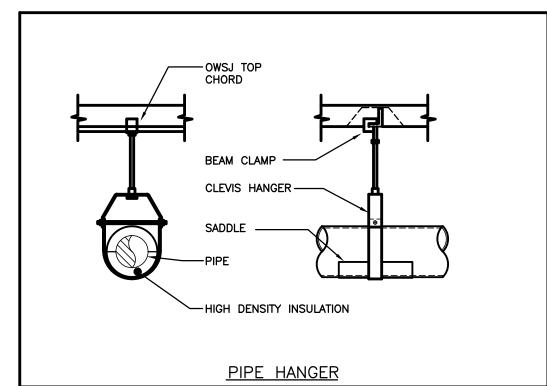
April 2, 2024

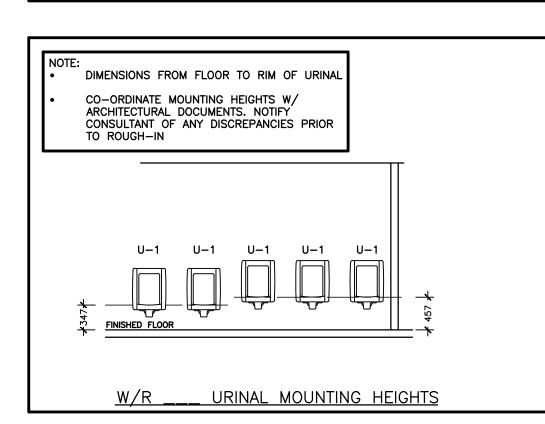


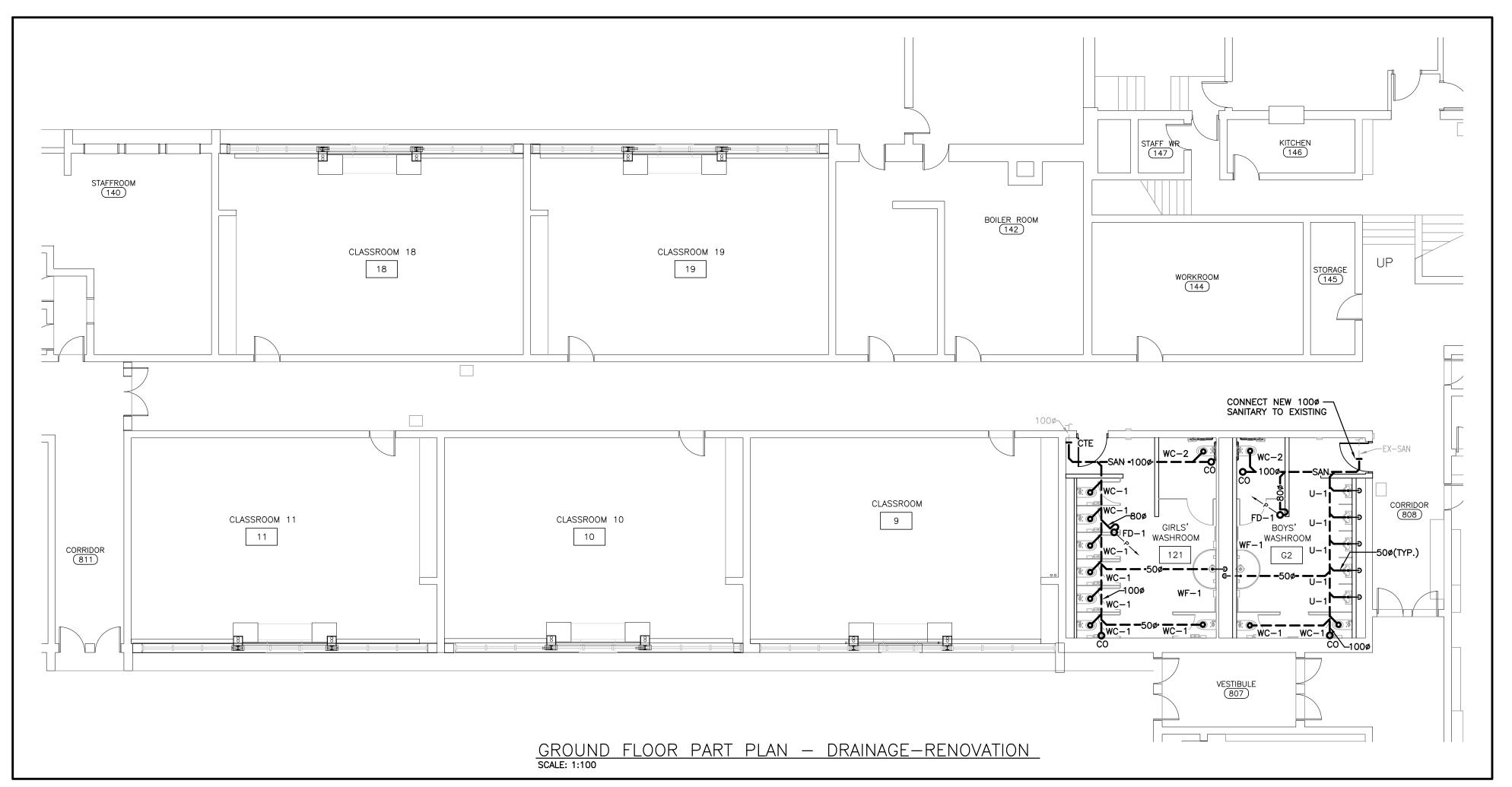
- SANITARY VENT PIPING IS NOT SHOWN. PROVIDE ALL NECESSARY VENT PIPING FROM ALL FIXTURES FOR A COMPLETE SYSTEM TO ALL LOCAL PLUMBING CODE & LOCAL AUTHORITY REQUIREMENTS, CONNECTED TO EXISTING VENTS OR NEW VENTS AS REQUIRED. CO-ORDINATE VENT LOCATION(S) WITH GENERAL CONTRACTOR. MAINTAIN MINIMUM 3700mm (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

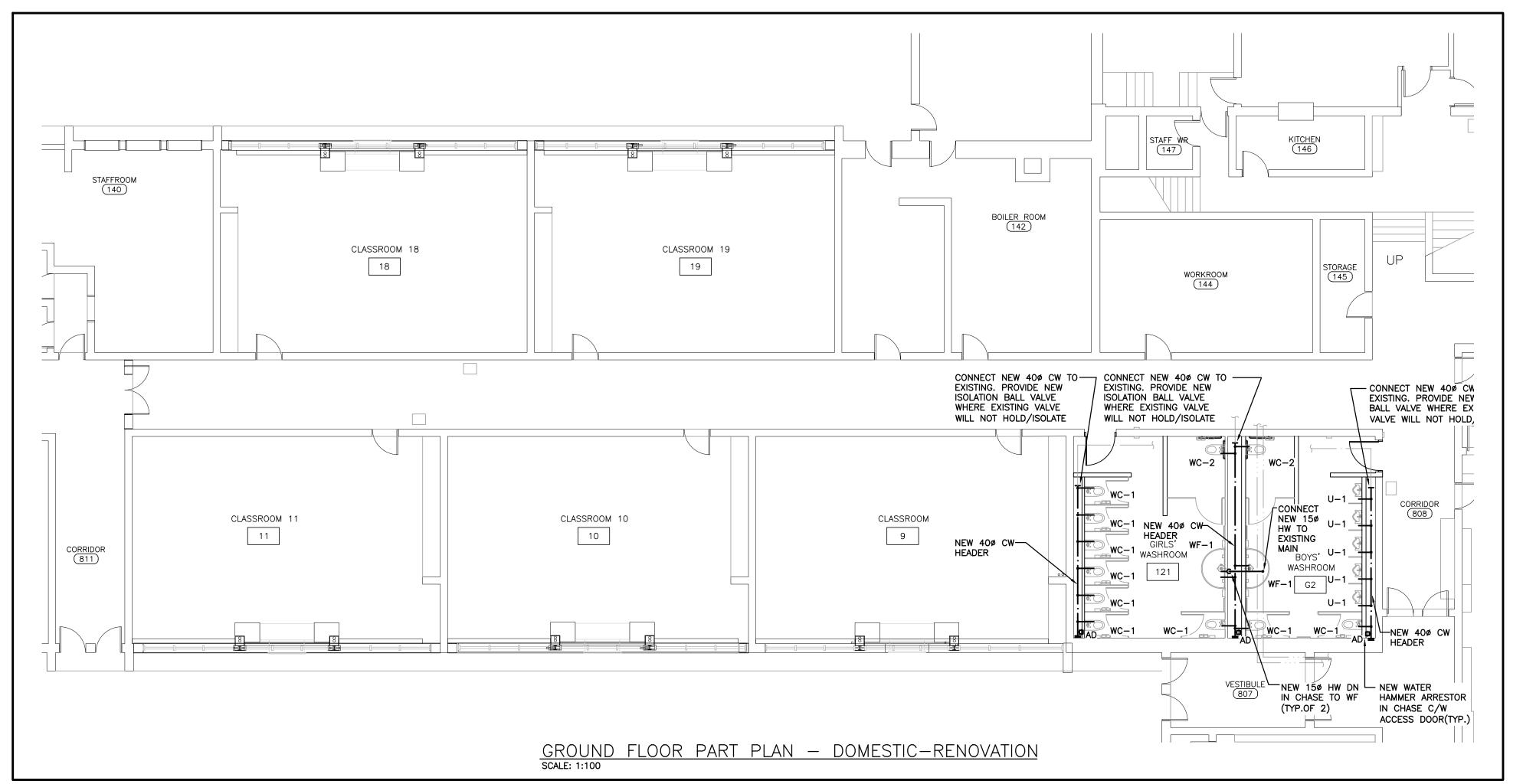


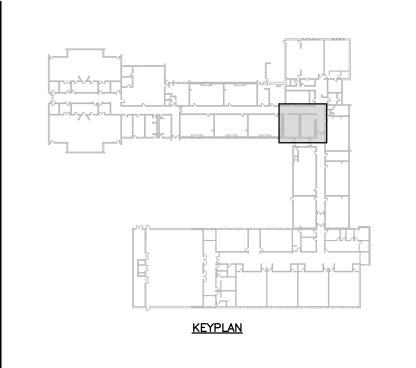














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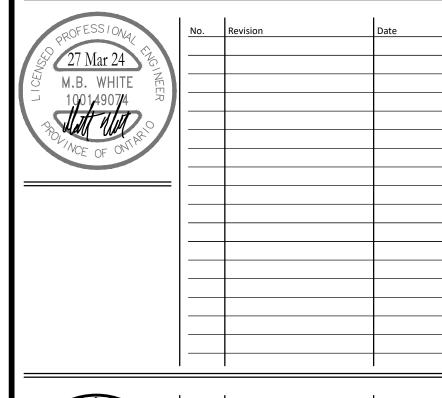
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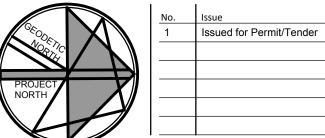
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WRDSB TAIT STREET PUBLIC SCHOOL CEILINGS RENOVATIONS

WATERLOO REGION DISTRICT SCHOOL BOARD 184 TAIT STREET, CAMBRIDGE, ON N1S 3G3 GROUND FLOOR PART PLANS - RENOVATION - DRAINAGE &

AS NOTED ward99 project number

23013 - WRDSB TAIT ST CEILINGS

architects Wa ward99 architects inc. 7500 Highway 27, Unit 27B Vaughan ON L4H 0J2

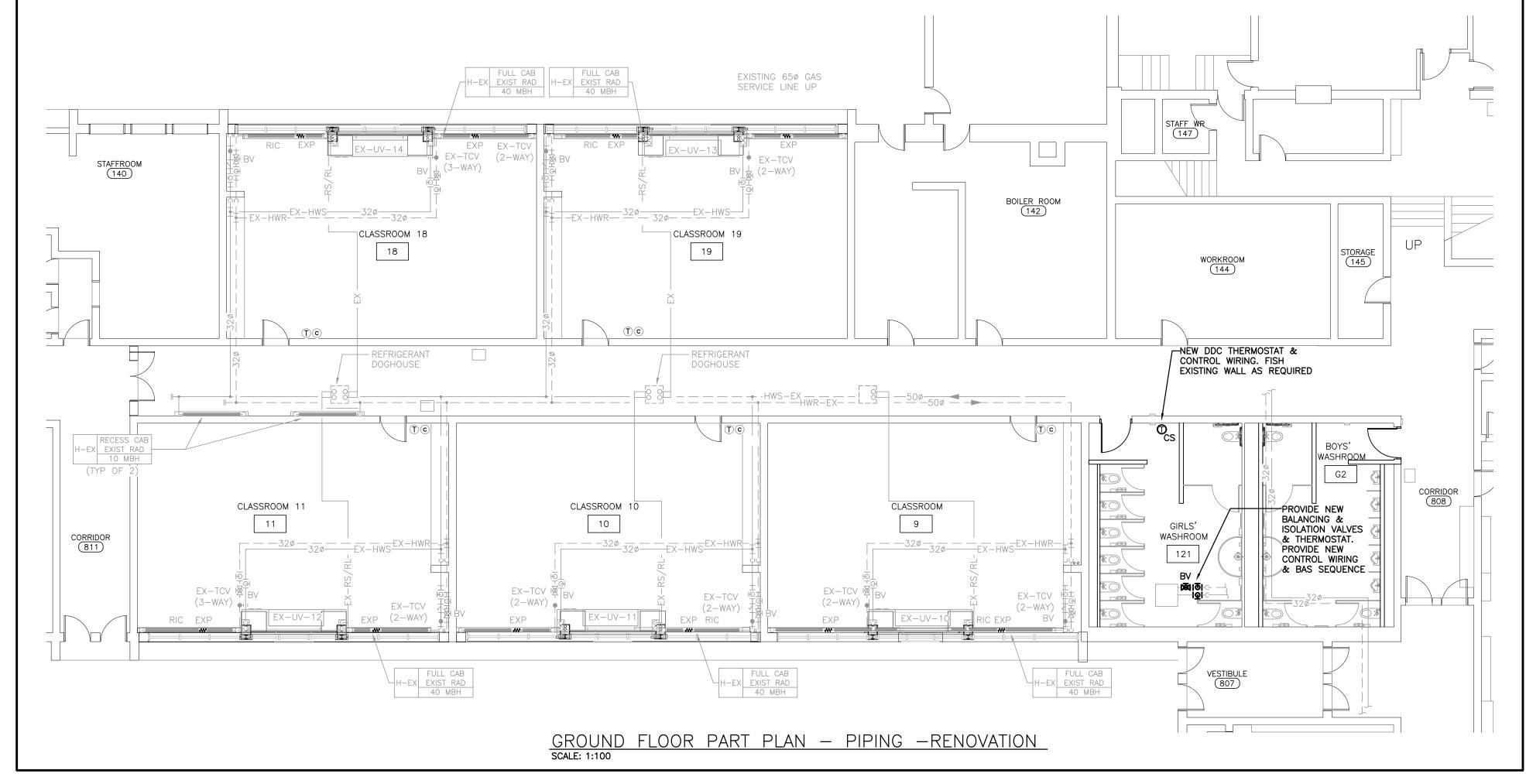
info@ward99architects.com

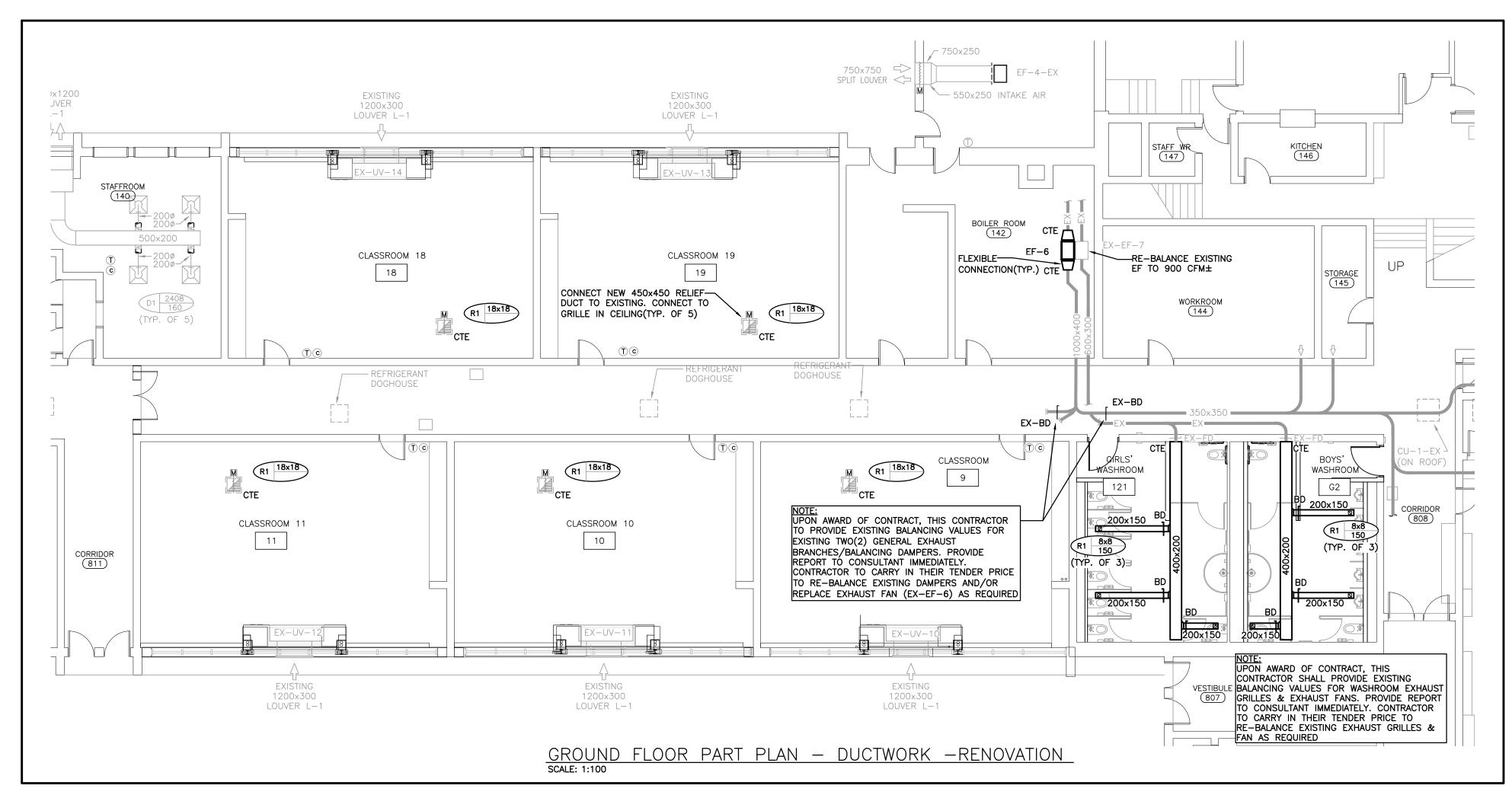
416 613 5880 www.ward99architects.com

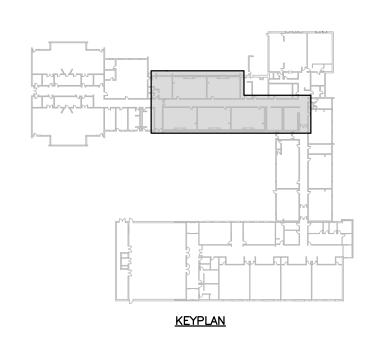
April 2, 2024



- 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









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55 Northland Road, Waterloo, ON N2V 1Y8 Phone: 519-725-3555 Website: deiassociates.ca

Project Number: 23305

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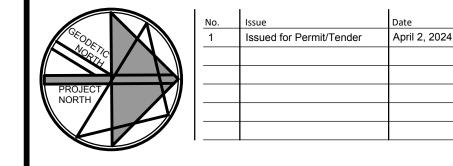
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WRDSB TAIT STREET PUBLIC SCHOOL CEILINGS RENOVATIONS

WATERLOO REGION DISTRICT SCHOOL BOARD

184 TAIT STREET, CAMBRIDGE, ON N1S 3G3

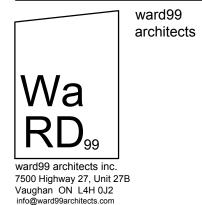
drawing
GROUND FLOOR PART PLANS - RENOVATION - HEATING &
DUCTWORK

AS NOTED
ward99 project number

drawing scale

23013 - WRDSB TAIT ST CEILINGS

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T/12

M302

GENERAL SPRINKLER NOTES

- SUBMIT PRELIMINARY DESIGN & HYDRAULIC CALCULATIONS STAMPED BY A PROFESSIONAL ENGINEER, AND MANUFACTURERS' PRODUCT SHEETS FOR SHOP DRAWING SUBMISSION AS SPECIFIED PRIOR TO COMMENCING WORK.
- ENSURE DESIGN MEETS OR EXCEEDS PRESENT NFPA 13 STANDARDS. ENSURE SPRINKLER SYSTEMS ARE INSTALLED TO NFPA 13 STANDARDS. UPON COMPLETION, SPRINKLER CONTRACTOR TO PROVIDE REPRODUCIBLE DRAWING (AT 1/8"=1'-0" SCALE) AND HYDRAULIC CALCULATIONS OF AS-BUILT CONDITION.
- SPRINKLER CONTRACTOR'S 'PROFESSIONAL ENGINEER' TO PROVIDE O.B.C. AND NFPA REQUIRED INSPECTION AND CERTIFICATION.
- REFER TO ARCHITECTURAL DRAWINGS FOR REFLECTED CEILING PLAN.
- PROVIDE SPRINKLER HEAD TYPES AS FOLLOWS:

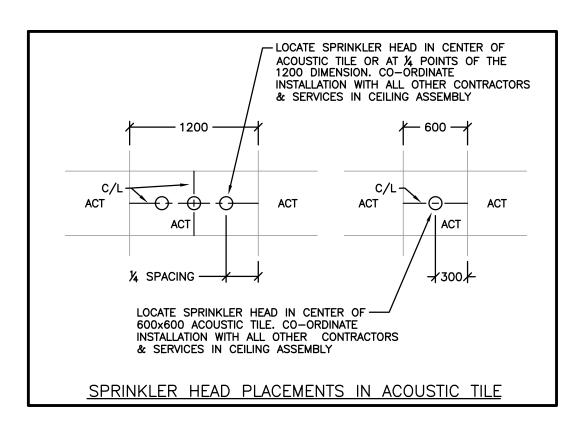
150mm (6") FROM EDGE.

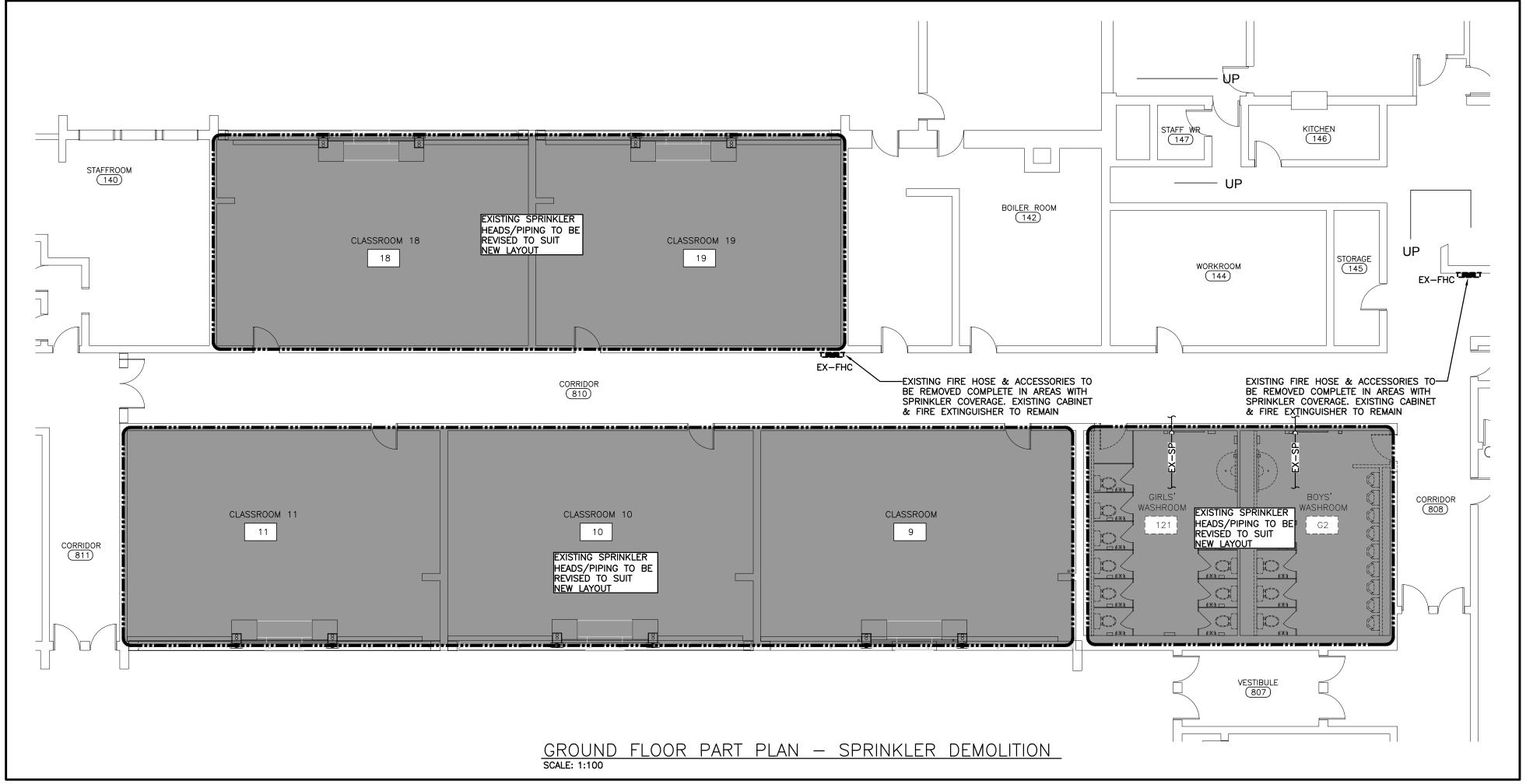
- PROVIDE UPRIGHT HEADS WITHIN 12" OF EXPOSED DECK
 THROUGHOUT EXPOSED STRUCTURE AREAS. PROVIDE HEAD GUARDS IN
 AREAS WHERE HEADS ARE BELOW 8'-0" & STORAGE ROOMS.
 PROVIDE CONCEALED PENDENT HEADS IN CEILINGS OF UNSUPERVISED
- CONSULTANT.

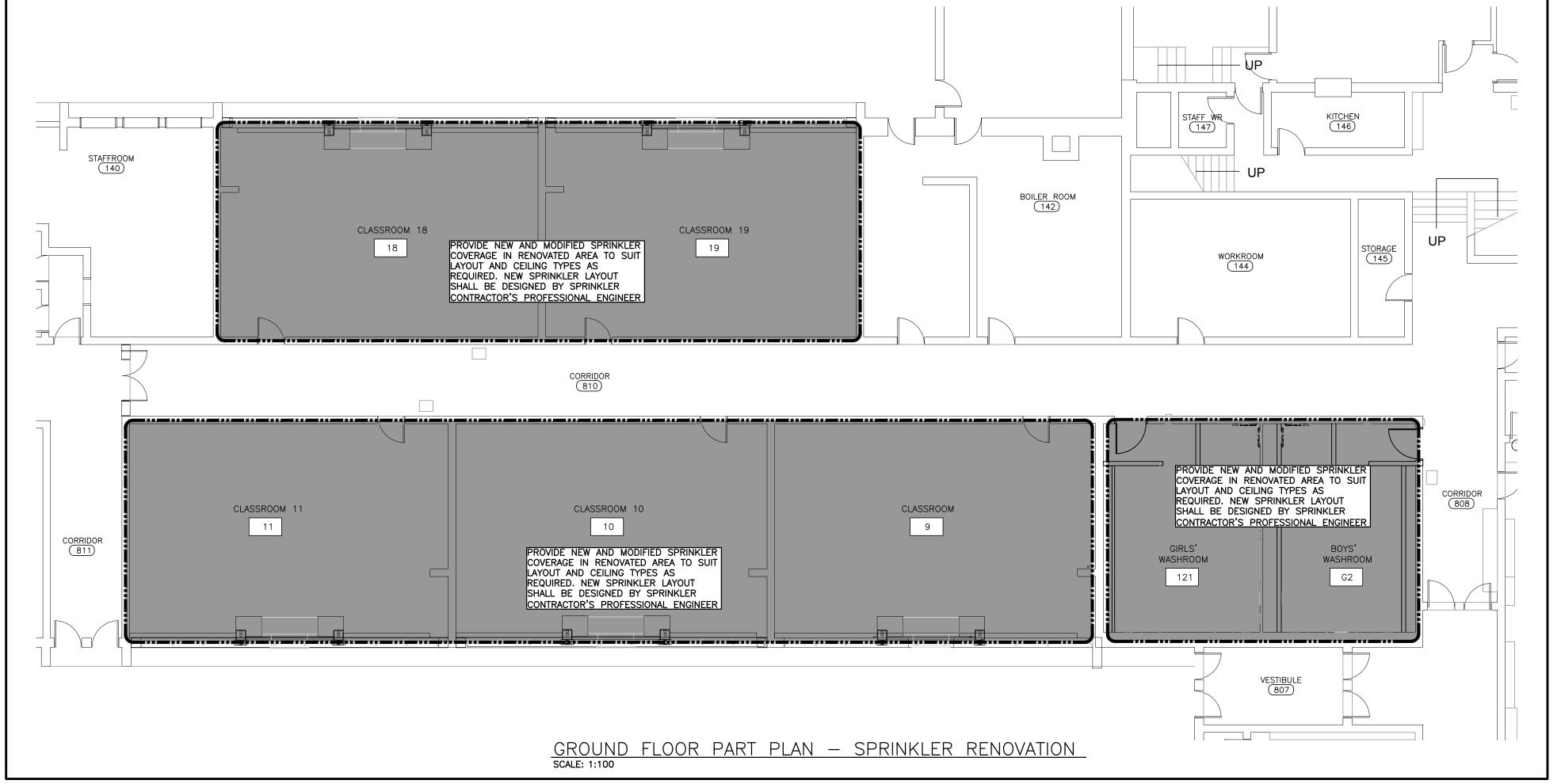
 PROVIDE SEMI-RECESSED HEADS IN ALL OTHER CEILING AREAS (CLASSROOMS, OFFICES, SEMINAR RMs, etc.). HEAD & ESCUTCHEON FINISH SELECTED BY CONSULTANT.

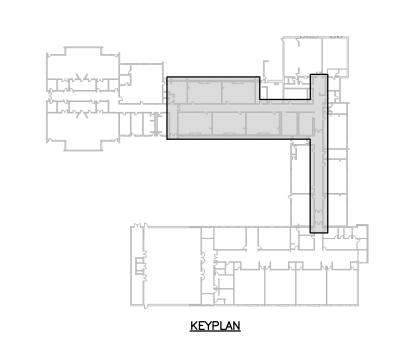
AREAS (CORRIDORS, WASHROOMS). COVER PLATE FINISH SELECTED BY

- SPRINKLER HEADS TO BE IN CENTRELINE OF CEILING TILE. MINIMUM
- FINAL NUMBER AND LOCATION OF SPRINKLER HEADS TO BE DETERMINED BY CONTRACTOR'S HYDRAULIC CALCULATIONS AND APPROVED DRAWINGS.
- SPRINKLER PIPING TO BE COORDINATED WITH OTHER SERVICES PRIOR TO INSTALLATION
- SPRINKLER CONTRACTOR TO VISIT SITE AND EVALUATE EXISTING CONDITIONS
 PRIOR TO TENDER CLOSING. INCLUDE ALL MODIFICATIONS IN TENDER
- EXISTING SPRINKLER SYSTEM TO BE RENOVATED/MODIFIED TO SUIT NEW LAYOUT. CONTRACTOR IS RESPONSIBLE TO SURVEY EXISTING SYSTEMS FOR CREATION OF SHOP DWGS.
- COMMISSIONING OF INTEGRATED TESTING OF FIRE PROTECTION AND LIFE
 - SPRINKLER CONTRACTOR TO PROVIDE SERVICES WITH THE FIRE COMMISSIONING AGENT (FCA) TO MEET THEIR REQUIREMENTS OF ADMINISTRATION, VERIFICATION, AND FINAL SIGNOFF TO THE LOCAL AUTHORITIES AND CONSULTANT. THE FCA IS BEING RETAINED BY THE ELECTRICAL CONTRACTOR, HOWEVER, THIS CONTRACTOR'S WORK TO SATISFY THE FCA REQUIREMENTS SHALL BE INCLUDED IN THE TENDER
 - CHECK/TEST: MOVEMENT OF ALL VALVES, CREATE WATER FLOW AT ALL DEVICES TO VERIFY DETECTION AT FIRE ALARM PANEL.
- PERFORM ALL WORK IN ACCORDANCE WITH NFPA 13.
 RETURN SPRINKLER SYSTEM TO NORMAL OPERATION ON COMPLETION OF TESTING











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Phone: 519-725-3555
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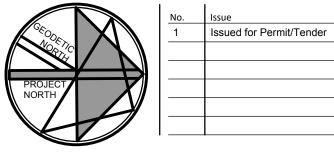
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may be required. Provide the same to meet the required

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WRDSB TAIT STREET PUBLIC SCHOOL CEILINGS RENOVATIONS

WATERLOO REGION DISTRICT SCHOOL BOARD

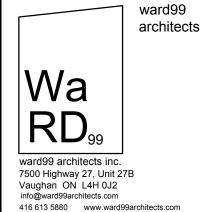
184 TAIT STREET, CAMBRIDGE, ON N1S 3G3

drawing
GROUND FLOOR PART PLANS - SPRINKLER DEMOLITION

AS NOTED
ward99 project number

AND RENOVATION

23013 - WRDSB TAIT ST CEILINGS



M40

April 2, 2024

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 O.B.C.
- 5. 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 CONSULTANT.
- 4. COORDINATE WITH OTHER CONTRACTORS 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 "AS-BUILT DRAWINGS" SHOWING THE SYSTEM AS INSTALLED.
- 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 QUALITY OF WORKMANSHIP BY WHICH TO ADHERE.
- 11. SUBMIT SHOP DRAWINGS ELECTRONICALLY FOR ALL EQUIPMENT. THESE WILL BE REVIEWED BY THE CONSULTANT. RESUBMIT AS OFTEN AS MAY BE FOUND NECESSARY. SUBMIT ONE COMPLETE SUBMISSION INDEXED AND LABELED FOR THIS PROJECT.
- 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 WORKERS COMPENSATION ACT, ETC. POST PROJECT NOTIFICATION AT THE SITE IN ACCORDANCE WITH THE MINISTRY OF LABOUR
- 14. EXCAVATION AND BACK FILLING SHALL BE BY THE TRADE INSTALLING THE SERVICE. PROVIDE COMPACTED 'A' GRAVEL FOR BEDDING AND BACKFILLING AS INDICATED. REMOVE SURPLUS MATERIAL FROM SITE.
- 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.
- 17. SUBMIT THREE (3) COPIES OF OPERATING AND MAINTENANCE INSTRUCTIONS IN A 3 RING BINDER LABELED FOR THE PROJECT.
- 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.
- 25. VIDEO RECORDING OF NEW & EXISTING UNDERGROUND SERVICES PRIOR TO FINAL ACCEPTANCE OF THE NEW UNDERGROUND PLUMBING SYSTEM AND PRIOR TO POURING THE FLOOR THIS CONTRACTOR
- SHALL RETAIN A QUALIFIED CONTRACTOR TO VIDEO TAPE THE NEW, EXISTING AND REVISED SANITARY AND STORM DRAINAGE PIPING AND BRANCH PIPING. TRANSFER ALL VIDEOTAPE INFORMATION TO DVD. THIS CONTRACTOR SHALL FLUSH THE NEW AND EXISTING STORM AND SANITARY SYSTEM TO REMOVE ALL DEBRIS PRIOR TO FINAL VIDEO TAPING OF SYSTEMS. PROVIDE 3 COPIES OF DIGITAL RECORDING ON MEMORY STICK. IDENTIFY VIDEO ROUTING ON RECORD DRAWINGS.
- 26. LOCATION OF EXISTING UNDERGROUND SERVICES THIS CONTRACTOR SHALL LOCATE EXISTING SERVICES PRIOR TO STARTING ANY WORK IN THE AFFECTED AREA. THIS CONTRACTOR SHALL USE A VIDEO CAMERA FOR THE EXISTING STORM AND/OR SANITARY DRAINAGE AT THE INDICATED CONNECTION POINT TO CONFIRM LOCATION, SIZE AND INVERT OF THE EXISTING PIPING.
- 27. EXISTING CONCRETE SLAB X-RAY/SCANNING THIS CONTRACTOR SHALL RETAIN THE SERVICES OF A QUALIFIED COMPANY TO PROVIDE AND X-RAY AND/OR SCAN OF THE EXISTING BURIED SERVICES IN WALL AND/OR FLOORS PRIOR TO STARTING ANY WORK IN THE AFFECTED AREA, FAILURE TO LOCATE EXISTING PIPING. CONDUIT REBAR ETC., SHALL NOT RELIEVE THIS CONTRACTOR OF REPAIR OF SAME PRIOR TO INSTALLING HIS SERVICE. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REPAIRS AND/OR REPLACEMENT OF EXISTING SERVICES CAUSED BY CUTTING THE EXISTING CONCRETE SLABS AND/OR WALLS.
- PROVIDE ALL EXCAVATING AND BACKFILLING INSIDE AND OUTSIDE THE BUILDING FOR PLUMBING PIPES, DRAINS AND EQUIPMENT. ALL BACKFILLING SHALL BE NEW CLEAN GRANULAR 'A' FILL BROUGHT IN SPECIFICALLY FOR THE PURPOSE OF BACKFILLING TO THE UNDERSIDE OF FLOOR SLAB. ALL BACKFILLING SHALL BE COMPACTED AT INTERVALS NOT MORE THAN 150 MM (6") LAYER TO THE SATISFACTION OF THE CONSULTANT. PROVIDE EXCAVATING AND BACKFILLING OUTSIDE THE BUILDING WITH GRANULAR A BROUGHT IN SPECIFICALLY FOR BACKFILLING TO A MINIMUM OF 450 MM (18") OVER THE PIPE. BACKFILLING OUTSIDE BUILDING OVER AND ABOVE THE 450 MM (18") BACKFILL AS PREVIOUSLY SPECIFIED HEREIN SHALL BE BY THE MECHANICAL CONTRACTOR AS SPECIFIED UNDER DIVISION 2. WHERE BACKFILLING OUTSIDE THE BUILDING IS NOT SPECIFIED UNDER DIVISION 2 THE MECHANICAL CONTRACTOR SHALL PROVIDE NEW CLEAN GRANULAR 'A' FILL TO GRADE LEVEL. BOTTOMS OF TRENCHES SHALL BE EXCAVATED SO THAT THE PIPE WILL BE SUPPORTED ON A 150 MM (6") COMPACTED BED OF CLEAN GRANULAR 'A' FILL. PROVIDE ALL NECESSARY PUMPING TO MAINTAIN EXCAVATION FREE OF WATER. SHOÙLD WATER BE ENCOUNTERED DURING EXCAVATION, THE MECHANICAL CONTRACTOR SHALL PROVIDE ALL LABOUR AND MATERIAL, INCLUDING ALL EQUIPMENT REQUIRED FOR DEWATERING THE EXCAVATION. AFTER THE WATER HAS BEEN REMOVED, THIS CONTRACTOR SHALL INSTALL A 300 MM (12") BASE OF COMPACTED 50 MM (2") CLEAR STONE COVERED WITH FILTER CLOTH BEFORE INSTALLING BACKFILL AS DETAILED AND/OR AS SPECIFIED. BE RESPONSIBLE FOR ALL WEATHER PROTECTION REQUIRED TO INSTALL PIPING AND/OR EQUIPMENT TO THE SATISFACTION OF THE CONSULTANT. BE RESPONSIBLE FOR PROVIDING ALL CLEAR STONE OR GRANULAR 'A' MATERIAL SUITABLE FOR APPLICATION TO REPLACE EXISTING SOIL NOT SUITABLE FOR BACKFILLING ABOVE THE 450 MM (18") BEDDING MATERIAL.
- 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 FERROUS SLEEVES WITH HEAVY APPLICATION OF ZINC RICH PAINT TO CGSB 1-GP-181M+AMDT-MAR-78.
- 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 INTEGRITY.

PART B DEMOLITION NOTES

- I. 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 SPECIFICATIONS.
- 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 PROVINCIAL REGULATIONS. 21. DRAIN ALL EXISTING PIPING AND DRAINAGE SYSTEMS INCLUDING ALL RELATED EQUIPMENT AS REQUIRED TO FACILITATE SYSTEM RENOVATIONS.
- 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.
- 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 PRESSURE.
- FLUSHING AND DISINFECTING MAINTAIN TESTABLE RP BACKFLOW PREVENTOR 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), MEDIUM WEIGHT CAST IRON WITH MECHANICAL RUBBER JOINTS OR TYPE DWV COPPER PIPE. 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.
- CLEAN OUTS: PROVIDE AND SET CLEAN OUT 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. CLEAN OUTS 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. TRAP PRIMERS TRAP PRIMERS: ALL TRAPS WHERE REQUIRED BY THE CODE TO BE PRIMED OR WHERE SHOWN ON THE DRAWINGS SHALL HAVE MIFAB-MR-ENC-AG OR EQUAL PRESSURE DROP ACTIVATED TRAP SEAL PRIMER INSTALLED IN THE NEAREST COLD WATER LINE TO THE TRAP. TRAP PRIMER SHALL BE CONCEALED, PROVIDED WITH ENCLOSURE FOR INSTALLTION IN WALL AND HAVE INTEGRAL AIR GAP FOR BACKFLOW PREVENTION, PROVIDE ACCESS DOOR.
- DRIP COCKS: SUPPLY AND INSTALL 1/2" DIAMETER MUELLER OR EQUAL DRAIN VALVES AT ALL LOW POINTS IN THE WATER SYSTEMS TO COMPLETELY DRAIN THE SYSTEMS. ALL DRIP COCKS SHALL BE INSTALLED IN ACCESSIBLE LOCATIONS.
- 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.
- 11. EXPANSION COMPENSATION PIPING SUBJECTED TO THERMAL EXPANSION SHALL BE INSTALLED USING PIPE LOOPS AND/OR EXPANSION COMPENSATORS TO PERMIT FREE EXPANSION AND CONTRACTION WITHOUT CAUSING DAMAGE TO OR STRESSES AT JOINTS AND HANGER AND TO REDUCE STRAIN ON CONNECTED EQUIPMENT TO A MINIMUM.
- 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 MANUFACTURERS RECOMMENDATIONS. RECOVER EXPOSED PIPING WITH 6 OZ. CANVAS JACKET AND TWO COATS LAGGING ADHESIVE.

- CONNECT TO EXISTING SERVICES WHERE SHOWN ON DRAWINGS.
- CODES AND REGULATIONS ALL SPRINKLER PIPING, SPACING AND EQUIPMENT SHALL CONFORM TO THE ONTARIO BUILDING CODE, NFPA-13 AND THE AUTHORITIES HAVING JURISDICTION.
- PIPING SHALL BE TESTED TO NFPA-13 REQUIREMENTS.
- - PIPE AND FITTINGS: 50 MM (2") AND SMALLER: SCHEDULE 40 STEEL PIPE WITH SCREWED FITTINGS. 65 MM (2 1/2") AND LARGER: SCHEDULE 10 STEEL PIPE WITH VICTAULIC FITTINGS. PIPE HANGERS:
- ULC LISTED FOR FIRE PROTECTION SERVICES.
- GENERAL: TO NFPA-13 AND ULC LISTED FOR FIRE SERVICES. SPRINKLER HEADS SHALL BE FULLY CONCEALED WITH WHITE COVER. VIKING MODEL B-1 OR EQUAL. COORDINATE LOCATION WITH REFLECTED CEILING PLANS. RELOCATE EXISTING SPRINKLER HEADS AS INDICATED. INSTALL IN EXISTING CEILING.
- DESIGN SYSTEM IN ACCORDANCE WITH ONTARIO FIRE MARSHALL, LOCAL AUTHORITY HAVING JURISDICTION, OWNERS, UNDERWRITERS AS REQUIRED, AND NFPA 13, USING FOLLOWING PARAMETERS: HAZARD TO SUIT OCCUPANCY.
- PIPE SIZE AND LAYOUT: HYDRAULIC DESIGN OR PIPE SCHEDULE SIZING DESIGN. SPRINKLER HEAD LAYOUT: TO NFPA 13 OR AS DIRECTED BY AUTHORITIES HAVING JURISDICTION, AND/OR AS INDICATED.
- SYSTEM ZONING AS INDICATED IN ACCORDANCE WITH NFPA 13.
- 8. PROVIDE COMPLETE DRAWINGS AND CALCULATIONS STAMPED BY A QUALIFIED PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OF
- 9. PROFESSIONAL ENGINEER SHALL PROVIDE ON SITE REVIEW AND CERTIFICATION FOR LOCAL BUILDING CODE REVIEW.
- 10. INSTALLATION: INSTALL, INSPECT AND TEST TO ACCEPTANCE IN ACCORDANCE WITH ANSI/NFPA-13. TESTING TO BE WITNESSED BY AUTHORITY HAVING JURISDICTION. SPACE HANGERS AND SUPPORT OF SPRINKLER PIPING IN ACCORDANCE WITH NFPA REGULATIONS. PROTECT EXPOSED WORK. DO NOT COVER OR CONCEAL PIPING ACCESSORIES OR WORK PRIOR TO INSPECTION AND APPROVAL BY AUTHORITIES HAVING JURISDICTION. ADJUST EQUIPMENT TO SATISFACTION OF AUTHORITY HAVING JURISDICTION AND CONSULTANT. PROTECT

EQUIPMENT DURING PAINTING. REPLACE DAMAGED AND PAINTED COMPONENTS. COORDINATE THE SPRINKLER PIPING AND EQUIPMENT WITH THAT OF OTHER TRADES ON THE JOB. MAINS AND BRANCHES SHALL BE RUN SO AS NOT TO INTERFERE WITH BUILDING'S STRUCTURE, MECHANICAL OR ELECTRICAL INSTALLATIONS. GUARANTEE THAT THE SYSTEMS AND EQUIPMENT BE INSTALLED IN ACCORDANCE WITH ALL LOCAL AND PROVINCIAL BY-LAWS AND THE RULES AND REGULATIONS OF THE INSURANCE UNDERWRITERS AND THE BUILDING CODE OF

PART F HYDRONIC HEATING

- 1. HEATING WATER PIPING:
 - SCHEDULE 40 STEEL PIPE TO ASTM 53, GRADE B PIPING NPS 2 AND UNDER SHALL BE MALLEABLE IRON 150 LB SCREWED FITTINGS WITH PULVERIZED LEAD PASTE. PIPING NPS 21/2 AND OVER SHALL BE WELDED FITTINGS AND STEEL FLANGES TO ANSI/ASME B16.5.
- INSULATE ALL HEATING WATER PIPING WITH 11/2" FIBERGLASS INSULATION WITH VAPOUR BARRIER. INSTALL AS PER MANUFACTURERS RECOMMENDATIONS. RECOVER EXPOSED PIPING WITH PVC JACKET.
- FILLING OF SYSTEM
- REFILL SYSTEM WITH CLEAN WATER ADDING WATER TREATMENT AS SPECIFIED. THIS CONTRACTOR SHALL CONTACT WATER TREATMENT SUPPLIER AND CO-ORDINATE WATER TREATMENT OF NEW SYSTEM.
- 4. EXISTING SYSTEM DRAINAGE DRAIN EXISTING HOT HYDRONIC SYSTEM AS REQUIRED TO FACILITATE SYSTEM RENOVATIONS.
- DISPOSAL OF EXISTING SYSTEM SHALL BE TO THE REQUIREMENTS OF THE LOCAL AND/OR PROVINCIAL REGULATIONS.
- PROCEDURE: FLUSHING AND CLEANING SHOULD ONLY TAKE PLACE AFTER SUCCESSFUL PIPING PRESSURE TESTING. TERMINAL DEVICE (REHEAT COILS, HEAT PUMPS, PERIMETER RADIATION, ETC.), AIR HANDLING UNIT COILS AND THEIR ASSOCIATED CONTROL AND BALANCING VALVES SHOULD BE BYPASSED DURING THE PRELIMINARY FLUSHING AND CLEANING PROCESS. INSTRUMENTS SUCH AS FLOW METERS, FLOW METERING VALVES AND ORIFICE PLATES SHOULD ONLY BE INSTALLED AFTER FLUSHING AND CLEANING.
- 6. TIMING:
- THE OVERALL CONSTRUCTION SCHEDULE IDENTIFIES PIPING FLUSHING AND CLEANING WITH REALISTIC TIME ALLOTMENTS. THE MECHANICAL CONTRACTOR IS REQUIRED TO PROVIDE A DETAILED REPORT OUTLINING THE PROCESSES AND PROCEDURES FOR FLUSHING AND CLEANING PER PIPING SYSTEM AT LEAST 4 TO 6 WEEKS IN ADVANCE OF WORK. AS A MINIMUM, AT LEAST ONE PIPING FLUSHING AND CLEANING PROCEDURE SHALL BE WITNESSED, BY THE CONSULTANT AND/OR COMMISSIONING AGENT. THE MECHANICAL CONTRACTOR SHALL TO UTILIZE A QUALIFIED WATER TREATMENT SPECIALIST TO SUPERVISE THE FLUSHING AND CLEANING PROCESS AND PROVIDE THE CERTIFIED WATER ANALYSIS REPORT CERTIFYING THAT THE PIPING SYSTEMS ARE CLEAN. COORDINATE FLUSHING AND CLEANING OF MECHANICAL SYSTEMS WITH HVAC WATER TREATMENT CONTRACTOR AND HVAC SYSTEMS COMMISSIONING CONTRACTOR. FLUSH AND CLEAN NEW PIPING SYSTEM IN PRESENCE OF CONSULTANT. FLUSH AFTER PRESSURE TEST FOR A MINIMUM OF 4 HRS. FILL SYSTEM WITH SOLUTION OF WATER AND NON-FOAMING, PHOSPHATE-FREE DETERGENT 3% SOLUTION BY WEIGHT. CIRCULATE FOR MINIMUM OF 8 HRS. THOROUGHLY FLUSH ALL NEW MECHANICAL SYSTEMS AND EQUIPMENT WITH APPROVED CLEANING CHEMICALS DESIGNED TO REMOVE DEPOSITION FROM CONSTRUCTION SUCH AS PIPE DOPE, OILS, LOOSE MILL SCALE AND OTHER EXTRANEOUS MATERIALS. CHEMICALS TO INHIBIT CORROSION OF VARIOUS SYSTEM MATERIALS AND BE SAFE TO HANDLE AND USE. DURING CIRCULATION OF CLEANING SOLUTION, PERIODICALLY EXAMINE AND CLEAN FILTERS AND SCREENS AND MONITOR CHANGES IN PRESSURE DROP ACROSS EQUIPMENT. REFILL SYSTEM WITH CLEAN WATER. CIRCULATE FOR AT LEAST 2 HOURS. CLEAN OUT STRAINER SCREENS/BASKETS REGULARLY. THEN DRAIN. DRAINAGE TO INCLUDE DRAIN VALVES, DIRT POCKETS, STRAINERS, EVERY LOW POINT IN SYSTEM. DRAIN AND FLUSH SYSTEMS UNTIL ALKALINITY OF RINSE WATER IS EQUAL TO MAKE-UP WATER. REFILL WITH CLEAN WATER TREATED TO PREVENT SCALE AND CORROSION DURING SYSTEM OPERATION. RE-INSTALL STRAINER SCREENS/BASKETS ONLY AFTER OBTAINING CONSULTANT'S APPROVAL AND APPROVAL FROM HVAC WATER TREATMENT CONTRACTOR. REPEAT SYSTEM DRAIN AND FLUSH AS OFTEN AS NECESSARY TO HAVE A CLEAN SYSTEM. DISPOSAL OF CLEANING SOLUTIONS TO BE APPROVED BY AUTHORITY HAVING JURISDICTION. ISOLATE NEW PIPING SYSTEM FROM EXISTING SYSTEM AS REQUIRED FOR SYSTEM CLEANING. AFTER HYDRONIC SYSTEM IS CLEANED, REFILL WITH CLEAN WATER AND CHEMICAL AS PER CHEMICAL SUPPLIER TREATMENT.

PART G 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.
- 2. 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.
- 3. SQUARE AND RECTANGULAR DUCTS:TO SMACNA. TRANSVERSE JOINTS, LONGEST SIDE UP TO AND INCLUDING 750 MM (30"): SMACNA PROPRIETARY DUCT JOINTS.
- - ALL DAMPERS TO TO SMACNA RECOMMENDATIONS AS MINIMUM ACCEPTABLE STANDARD. SPLITTER DAMPERS OF SAME MATERIAL AS DUCT BUT ONE SHEET METAL THICKNESS HEAVIER WITH APPROPRIATE STIFFENING, CUT AIRFOIL SHAPE, PIANO HINGE PIVOT, WITH CONTROL ROD WITH LOCKING DEVICE AND POSITION INDICATOR ON EXTERIOR OF DUCT. SINGLE BLADE BALANCING ROUND AND RECTANGULAR, MAXIMUM 100MM (4") HIGH, OR SAME MATERIAL AS DUCT BUT ONE SHEET METAL THICKNESS HEAVIER (MINIMUM 16 GAUGE), V-GROOVE STIFFENED WITH LOCKING QUADRANT, MULTI-LEAF OPPOSED BLADE DAMPERS DESIGNED TO SMACNA DETAILS, SELF-LUBRICATING NYLON BEARINGS. SHAFT EXTENSION TO ACCOMMODATE INSULATION THICKNESS, WITH LOCKING QUADRANT. MANUFACTURED ADJUSTABLE EXTRACTORS TO BE WITH ADJUSTMENT ROD. ACCEPTABLE PRODUCTS: TITUS, NAILOR OR EQUAL
- UL OR ULC AND SHALL MEET REQUIREMENTS OF NFPA 90A-1978. FACTORY FABRICATED FOR FIRE RATING REQUIREMENTS TO MAINTAIN INTEGRITY OF MEMBRANE BEING INSTALLED. MILD STEEL, FIRE LINK ACTUATED TOP. ROUND OR SQUARE GUILLOTINE TYPE, WEIGHTED TO CLOSE AND LOCK IN CLOSED POSITION WHEN RELEASED. ROLL DOOR TYPE IN HORIZONTAL POSITION WITH VERTICAL AIRFLOW. SIZED TO MAINTAIN FULL FLOW CROSS SECTION OF DUCT
- 6. GRILLES, REGISTERS AND DIFFUSERS
- GRILLES, REGISTERS AND DIFFUSERS SHALL BE THE SAME MANUFACTURER. TYPE AS SHOWN ON THE DRAWING. ACCEPTABLE MATERIALS: E.H. PRICE, TITUS, NAILOR, KRUEGER, TUTTLE & BAILEY, METALAIR.
- 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 RECOMMENDATIONS. ON ALL OUTDOOR AIR DUCTWORK, FIBREGLASS FOIL FORCED RIGID DUCT INSULATION 3" THICK TYPE PF-335-3/4 LB DENSITY WITH 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.
- PROVIDE A DDC CONTROL SYSTEM AS AN EXPANSION OF THE EXISTING BUILDING AUTOMATION CONTROLS. THE EXISTING CONTROLS ARE DISTECH BEING PROVIDED BY ENERGY CONTROLS. CABINET UNIT HEATER CONTROL:

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

MODULATE THE HEATING VALVE TO MAINTAIN ROOM TEMPERATURE.

- EXHAUST FAN CONTROL: FANS TO RUN ON TIME OF DAY SCHEDULE. REFER TO GRAPHICAL SEQUENCES ON M502.
- 9. SYSTEM BALANCING BALANCE AIR AND WATER SYSTEMS USING NEBB OR AABC CERTIFIED FIRM AND AS PER NEBB REQUIREMENTS TO WITHIN 5% OF TOTAL



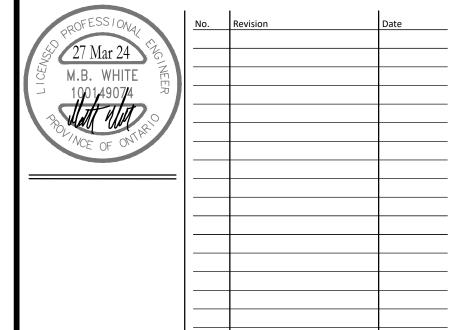
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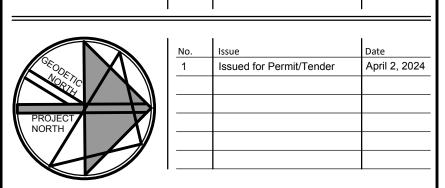
The contractor shall verify all dimensions and report all errors and discrepancies to the Consultant before commencement of the work. The drawings show general arrangement of services. Follow as closely as actual building construction will permit. Obtain approval for relocation of service from Consultant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

may be required. Provide the same to meet the required 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. Do not scale this drawing.

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





WRDSB TAIT STREET PUBLIC SCHOOL CEILINGS RENOVATIONS

architects

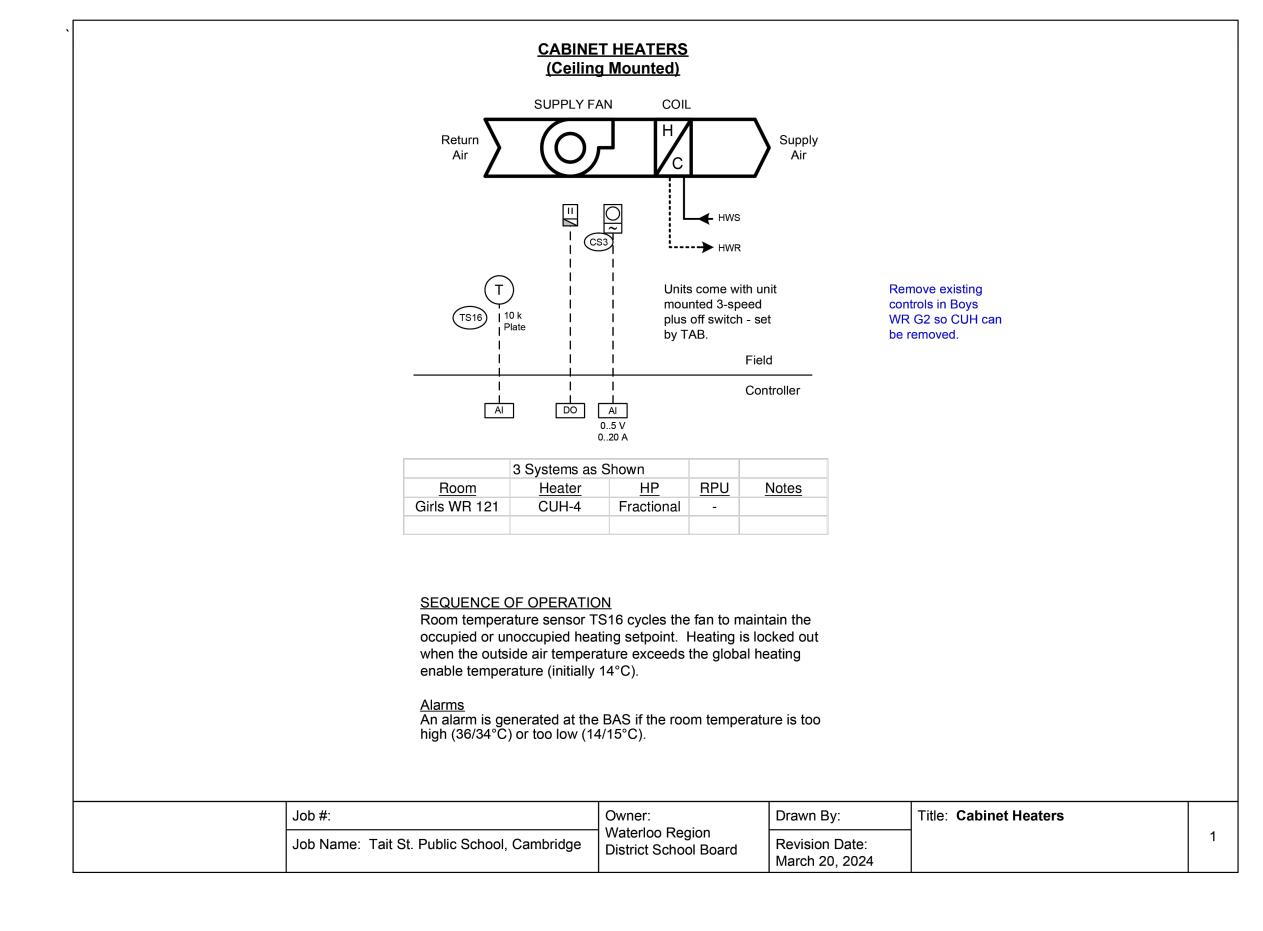
WATERLOO REGION DISTRICT SCHOOL BOARD 184 TAIT STREET, CAMBRIDGE, ON N1S 3G3 MECHANICAL SPECIFICATION

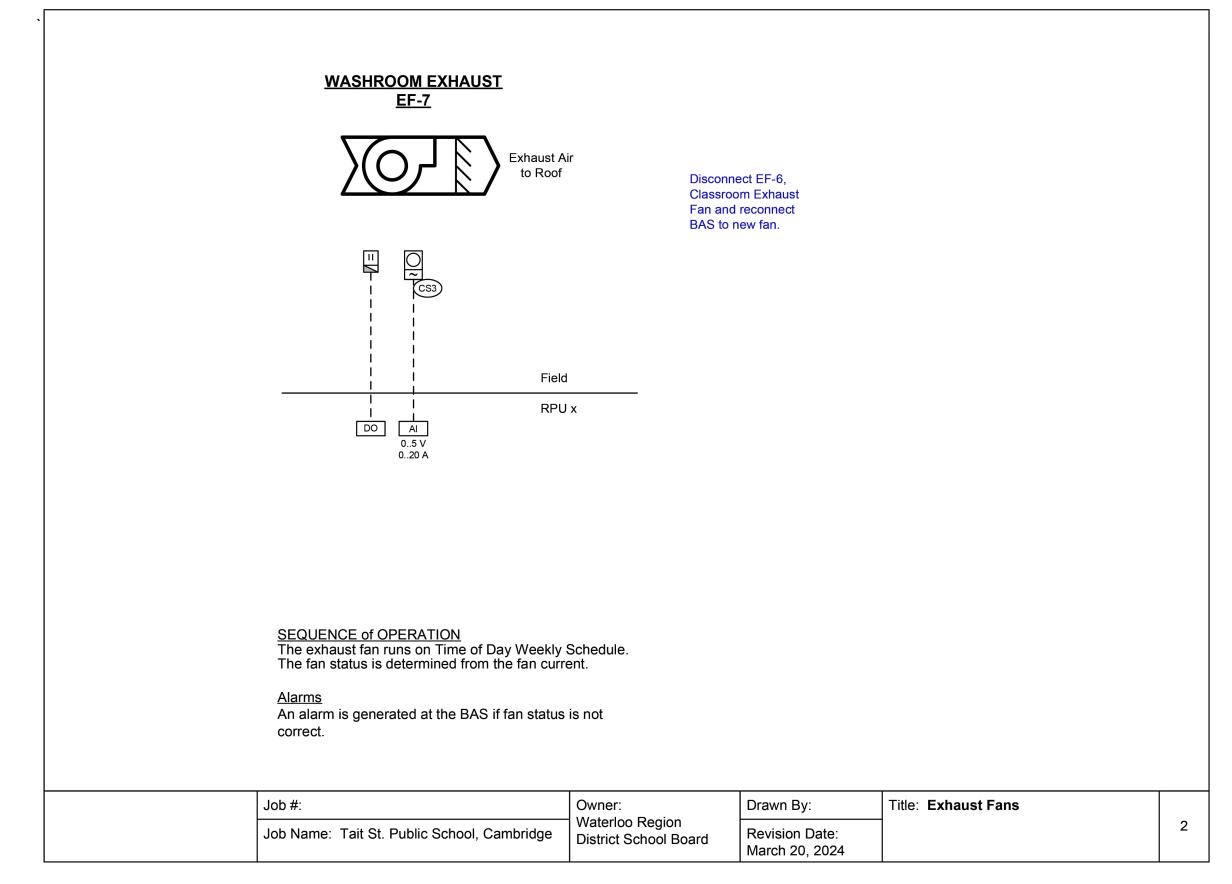
AS NOTED 23013 - WRDSB TAIT ST CEILINGS

ward99 architects inc Vaughan ON L4H 0J2

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55 Northland Road, Waterloo, ON N2V 1Y8 Phone: 519-725-3555 Website: deiassociates.ca Project Number: 23305

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

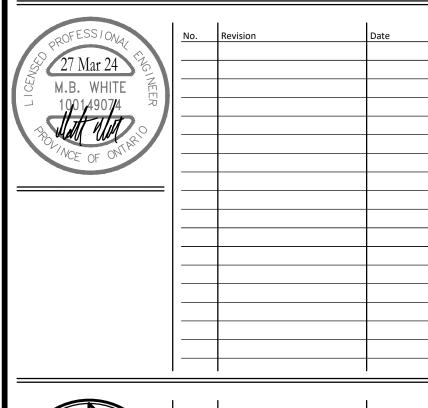
conditions.

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PROJECT NORTH			

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WRDSB TAIT STREET PUBLIC SCHOOL CEILINGS RENOVATIONS

WATERLOO REGION DISTRICT SCHOOL BOARD 184 TAIT STREET, CAMBRIDGE, ON N1S 3G3

BAS CONTROL SCHEMATICS

drawing scale
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ward99 architects inc. 7500 Highway 27, Unit 27B

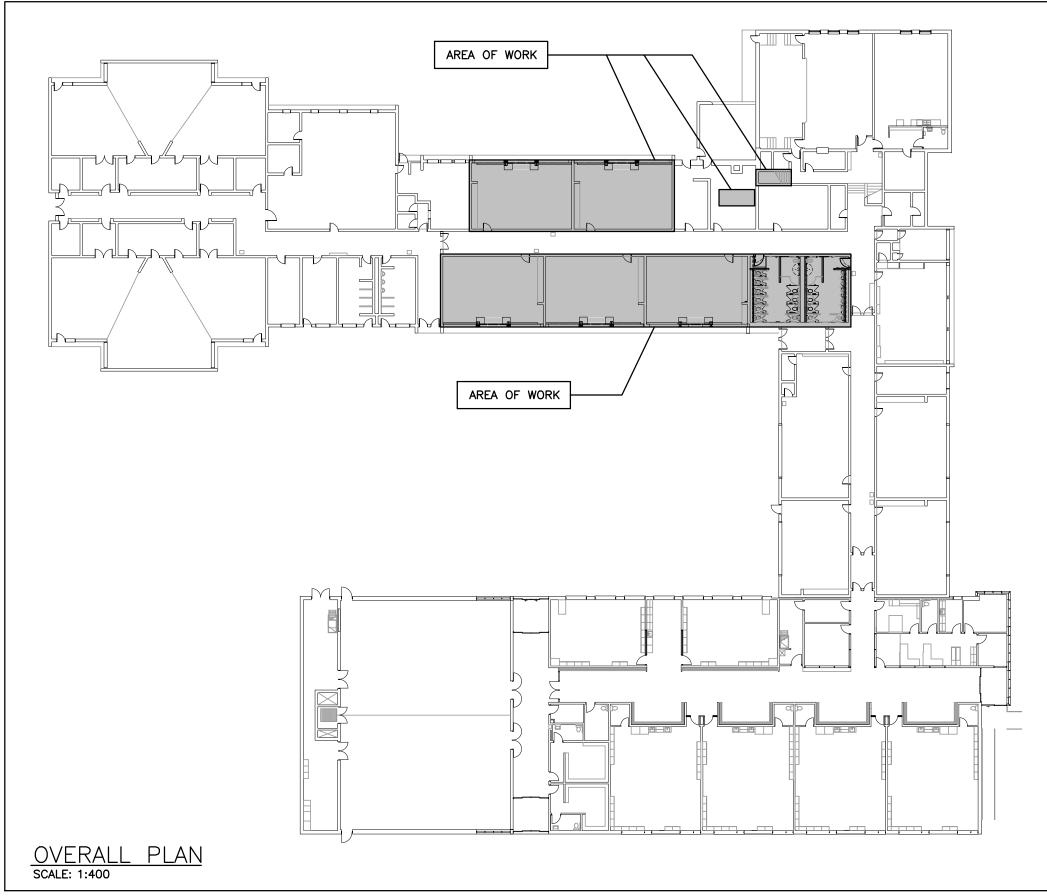
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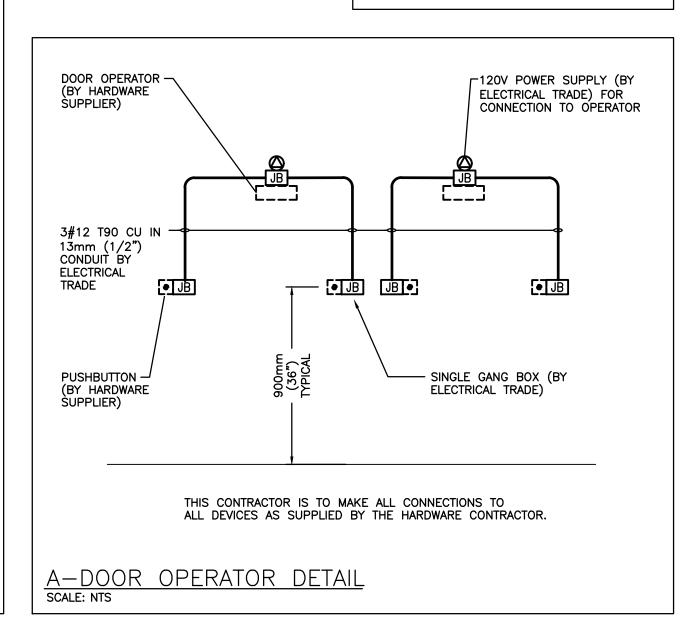
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M502

<u>LIC</u>	GHT FIXTURE SCHEDULE												
Item	Manufacturer/Catalog Number	Voltage	Lamp	Mounting	Description								
A	COOPER CAT. #2SNLED-LD5-23SL-LW-UNV-L840-CD-1 LITHONIA CAT. #CLX-L24-2500LM-SEF-RDL-WD-MVOLT-GZ10-40K-80CRI-WH SIGNIFY CAT. #FSS2-30L-840-UNV-DIM (SET TO 2500LM)	120V	LED 2453 LUMENS 4000K 21W	WALL	2' (610mm) SURFACE LED STRIP LIGHT C/W WIDE LENSED OPTICAL DISTRIBUTION AND 10% 0-10V DIMMING DRIVER.								
В	LITHONIA CAT. #TLX4-30L-FW-A12-GZ10-LP840 SIGNIFY CAT. #1SML32L840-4-FA-02F-UNV-DIM	120V LED 3234 LUMENS 4000°K 30W SURFACE 1'x4' (305mmx1220mm) LED TROFFER C/W ALUMINUM PRISMATIC LENS, AND ELECTRONIC DRIVER.											
LIGHTS (SELF-	AIMLITE CAT #EBWL SERIES LUMACELL CAT. #LBL SERIES OR APPROVED EQUALS BY STANDPRO (EM-2)	12V/120V	N/A	SURFACE	VANDAL RESISTANT, LONG LIFE, SEALED BATTERY, C/W 17W LED MODULES, POLYCARBONATE BODY, AND 90 MINUTE BATTERY DURATION.								
NOTES:	NOTES: 1 IF THERE ARE ANY DISCREPANCIES BETWEEN THE FIXTURE PART NUMBER AND DESCRIPTION, IT IS THE RESPONSIBILITY OF THIS CONTRACTOR TO BRING THESE TO THE ELECTRICAL CONSULTANT'S ATTENTION PRIOR TO TENDER CLOSE. NO EXTRAS WILL BE ENTERTAINED FOR FAILURE TO DO SO. FINAL FIXTURE CHARACTERISTICS AND DESCRIPTION WILL BE MARKED BY CONSULTANT AT TIME OF SHOP DRAWING REVIEW. 2 WHERE NOTED ABOVE THAT FIXTURES ARE TO HAVE FINISH TO SUIT ARCHITECT THE FINISH WILL BE SELECTED FROM MANUFACTURER'S OPTIONAL COLOUR CHART (i.e. RAL COLOURS OR EQUAL). PROVIDE THIS COLOUR CHART WITH SHOP DRAWING SUBMITTAL. 3 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.												



<u>ELE</u>	CTRICAL SYMBOLS	NO	TE: ALL SYMBOLS MAY NOT BE USED					
	LIGHTING		POWER					
X	LIGHT FIXTURE TYPE AS INDICATED	Ф	WALL MOUNTED RECEPTACLE (15A-120V)					
	BATTERY UNIT WITH INTEGRAL EMERGENCY FIXTURE (EM-X INDICATES BATTERY UNIT	P s	RECEPTACLE MTD. ABOVE COUNTER S=SPLIT (15A-120V)					
	TYPE, DC-X INDICATES DC CIRCUIT, AND X-X INDICATES AC SOURCE CIRCUIT)	#	QUAD RECEPTACLE					
\$	SINGLE POLE SWITCH (3=3 WAY, 4=4 WAY, P=PILOT LIGHT, K=KEYED, DM=DIMMER, M=MOTOR RATED)	-	PANEL AS INDICATED					
. OS	CEILING MOUNTED MOTION SENSOR	•	DIRECT CONNECTION					
PK	ANALOG POWER PACK	HD	HAND DRYER					
	FIRE ALARM	•	PUSH-BUTTON STATION (QUANTITY OF BUTTONS AS PER PLANS)					
8	ALARM BELL	JB	JUNCTION BOX					
	ALARM STROBE	GENERAL						
	COMMUNICATIONS	ER	INDICATED EXISTING ITEM TO REMAIN					
→	COMBINATION SINGLE VOICE/ SINGLE COMPUTER OUTLET UNLESS OTHERWISE	D	INDICATES EXISTING ITEM TO BE DELETED					
	NOTED C/W 1" (27mm) C TO CABLE MANAGEMENT SYSTEM.	R	INDICATES EXISTING ITEM TO BE RELOCATED/IN RELOCATED POSITION					
WAP	WIRELESS ACCESS POINT. PROVIDE 34" (21mm) C TO CABLE MANAGEMENT SYSTEM	CLG	CEILING MOUNTED					
요	CLOCK AS PER SPECIFICATIONS	\otimes	NOTE INDICATOR					
⊗	AUXILIARY ROUGH-IN FOR USE AS NOTED.	STA	ANDARD CIRCUIT LABELING					
	WALL MOUNTED SPEAKER (CS=COLUMN SPEAKER)	CIRCUIT	PANEL LABEL ————————————————————————————————————					



<u>_</u> E	EQUIPMENT WIRING SCHEDULE										E=ELECTRICAL M=MECHANICAL O=OTHERS																				
	Description Data Starter Control Device Isolating Device Remote Items Interlock											Remarks																			
Electrical Item	Description	Provided by	Voltage	Size hp/kW/Amps Phase	Magnetic	Manual	Contactor	Combination	Variable Frequency Drive	ECM	On/Off Selector	Start/Stop PB.	High/Low/Off	Pilot Light	Disconnect	WP Disconnect	교	Starter/Device Wired By	Thermostat	RA Thermostat		peed	Ra Pilot	Dual Voltage Relay	Control Panel	Wired by	Bldg Auto System	Wired by	Interlock To	Interlock By	Description
1	EXHAUST FAN EF-6	М	120	1 HP 1											Ε		Ε	Ε						М		M/E	М	М			
2																															
3																	·														

EXISTING PANEL 'MM' VOLTAGE: 120/208 VOLTS PHASE: 3P, 4W MAINS: 225A NEUTRAL BUS: FULL MOUNTING: SURFACE	THE CONTRACTOR IS TO CAND NUMBERS NOTED WITH INFORMATION ISSUED DURING ADJUST DIRECTORIES TO S	H THE FINAL ROOM NG CONSTRUCTION AND		
NOTES: SCHNEIDER NQ ML DT PANEL C/W SPRINKLER HOC)D			
CONDENSING UNIT CU-3 25A 1 2 40	A CONDENSING UNIT CU-4	UNIT VENTILATOR UV-15	15A 43	44 15A UNIT VENTILATOR UV-16
2P 3 4 2F) 		15A 45	46 SPARE
	A CONDENSING UNIT CU-6	FAN COIL FC-14A	15A 6 47	48 15A SPARE
2P 0 7 8 0 2F			2P 49	50 <u>15A</u> SPARE
	A CONDENSING UNIT CU-8	FAN COIL FC-14B		52 52 SPARE
2P 0 11 12 0 2F			2P 53	54 <u>15A</u> SPARE
	A CONDENSING UNIT CU-10	ROOF MAINTENANCE REC		56 20A STAIR LIFT
2P 15 16 2F		ROOF MAINTENANCE REC		58 2P
	CONDENSING UNIT CU-12	ROOF MAINTENANCE REC		60 15A SOUND FIELD/PROJECTOR
2P 19 20 2F		EDH-1	15A 61	62 15A SOUND FIELD/PROJECTOR
	A CONDENSING UNIT CU-14	WD 404 AUTO DUUMDINO	2P 63	*15A WR 121 AUTO PLUMBING
2P 23 24 2F	_	WR 121 AUTO PLUMBING		66 *15A WR 121 AUTO PLUMBING
	A CONDENSING UNIT CU-16	WR 121 HAND DRYER		68 20A WR 120 HAND DRYER 70 15A WR 120 DOOR OPERATOR
2P 27 28 2F 2F 27 28 30 15/		WR 121 DOOR OPERATOR		
	4 UNIT VENTILATOR UV-3 4 UNIT VENTILATOR UV-4	WR 120/121 SINKS		72 15A SPARE 74 15A SPARE
	UNIT VENTILATOR UV-6	SPAIL.	73 75 75	76 20A EXHAUST FAN EF-6
	UNIT VENTILATOR UV-8			
	UNIT VENTILATOR UV-10		77	78 80
	A UNIT VENTILATOR UV-12		79	82
	A UNIT VENTILATOR UV-14		83	84
			0 0	0 0
PROVIDE BY	ED PANEL ASSEMBLY MUST EITHER FULLY RATED BREAK AM BREAKER.		,	



Phone: 519-725-3555 Website: deiassociates.ca Project Number: 23305

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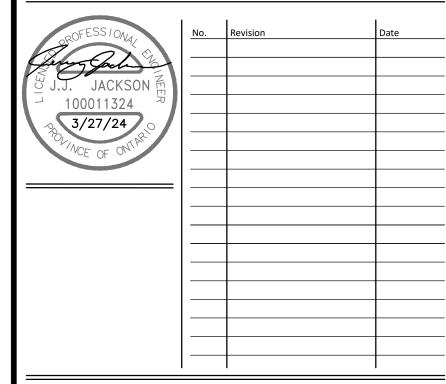
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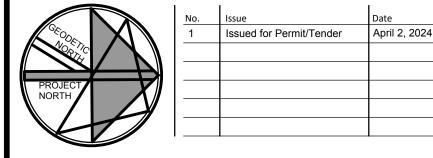
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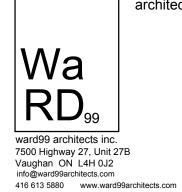


project
WRDSB TAIT STREET PUBLIC SCHOOL CEILINGS RENOVATIONS

WATERLOO REGION DISTRICT SCHOOL BOARD
184 TAIT STREET, CAMBRIDGE, ON N1S 3G3

drawing
LEGEND, DETAILS, AND SCHEDULES
drawing scale
AS NOTED

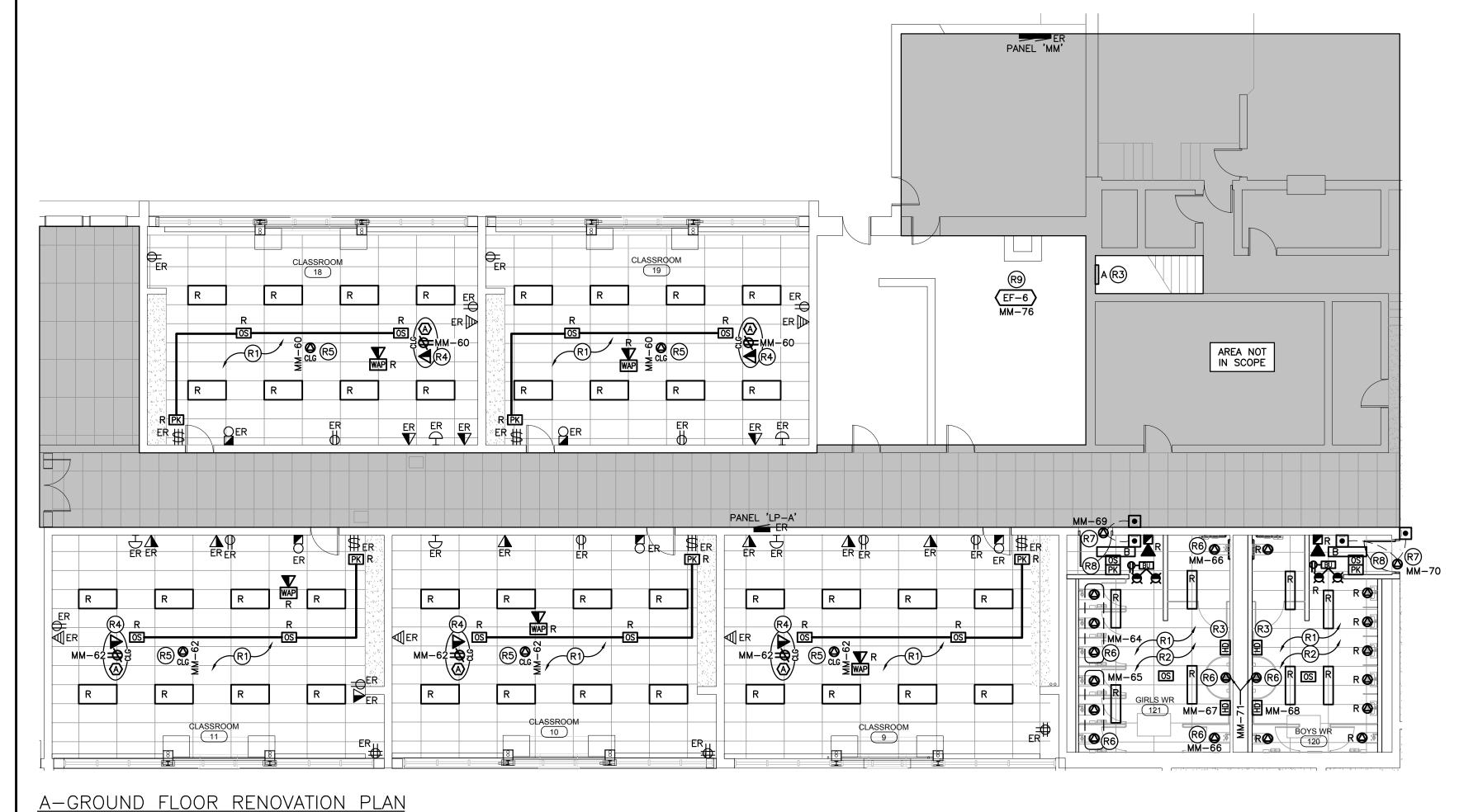
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23013 - WRDSB TAIT ST CEILINGS
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E10

PANEL 'MM' (EF-EX) D AREA NOT IN SCOPE





GENERAL DEMOLITION NOTES

- 'ER' DENOTES EXISTING ITEM TO REMAIN.
- EXISTING ELECTRICAL EQUIPMENT NOT SHOWN SHALL REMAIN UNLESS NOTED
- 'R' INDICATES EXISTING ITEM TO BE RELOCATED. REFER TO RENOVATION DRAWINGS AND RELOCATE DEVICE AND WIRING TO SUIT. UNLESS OTHERWISE
- 'D' INDICATES EXISTING ITEM TO BE DELETED. UNLESS OTHERWISE NOTED DISCONNECT AND REMOVE NOTED DEVICE AND WIRING BACK TO SOURCE.
- ALL LIGHTING FIXTURES BEING RELOCATED SHALL BE CLEANED AND CHECKED PRIOR TO BEING REINSTALLED.

SPECIFIC DEMOLITION NOTES

- D1 ALL CEILING MOUNTED DEVICES ARE TO BE REMOVED TO ALLOW INSTALLATION OF NEW CEILING AND REINSTALLED PER RENOVATION PLANS. All UNUSED SUPPORTS ARE TO BE REMOVED, EXTEND ALL CIRCUITS AND CONDUIT AS
- D2 ALL WALL MOUNTED DEVICES ARE TO BE REMOVED TO ALLOW INSTALLATION OF NEW TILING AND REINSTALLED PER RENOVATION PLANS. EXTEND ALL CIRCUITS AND CONDUIT AS REQUIRED. CONTRACTOR MUST PROVIDE VERIFICATION ON ANY FIRE ALARM DEVICES THAT HAVE BEEN DISCONNECTED.
- D3 INDICATES HAND DRYERS ARE TO BE REMOVED AND REPLACED. EXISTING CIRCUIT TO REMAIN FOR CONNECTION TO NEW DEVICE, EXTEND AS REQUIRED. REFER TO RENOVATION PLANS.
- D4 MECHANICAL EQUIPMENT IS TO BE REMOVED BY MECHANICAL TRADE. ELECTRICAL TRADE SHALL DISCONNECT AND REMOVE FEEDERS, CONDUIT, AND WIRING BACK TO SOURCE. REMOVE ASSOCIATED CONTROL DEVICE IF APPLICABLE.

<u>KEYPLAN</u>

OF WORK



55 Northland Road, Waterloo, ON N2V 1Y8 Phone: 519-725-3555 Website: deiassociates.ca Project Number: 23305

MECHANICAL | ELECTRICAL | AQUATIC

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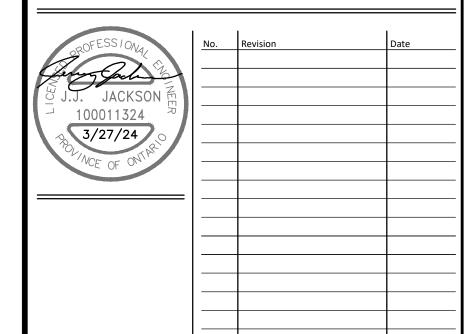
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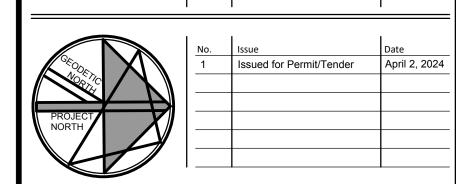
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CONSISTENT WITH THE DRAWINGS.

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WRDSB TAIT STREET PUBLIC SCHOOL CEILINGS RENOVATIONS

WATERLOO REGION DISTRICT SCHOOL BOARD 184 TAIT STREET, CAMBRIDGE, ON N1S 3G3

GROUND FLOOR DEMOLITION AND RENOVATION

AS NOTED

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416 613 5880 www.ward99architects.com

ward99 project number

23013 - WRDSB TAIT ST CEILINGS

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GENERAL RENOVATION NOTES

- 'ER' INDICATES EXISTING ITEM TO REMAIN.
- 'R' INDICATES EXISTING ITEM IN RELOCATED POSITION.
- ALL DEVICES SHOWN ARE NEW UNLESS OTHERWISE NOTED. EXISTING ELECTRICAL EQUIPMENT NOT SHOWN SHALL REMAIN UNLESS
- OTHERWISE NOTED.
- MAINTAIN SERVICE TO ALL EXISTING DEVICES TO REMAIN. REVISE PANEL DIRECTORIES TO SUIT CHANGES (TYPED).

SPECIFIC RENOVATION NOTES

- R1 RE-CONNECT CEILING FIXTURES AND DEVICES WITHIN THIS ROOM TO EXISTING CIRCUITS AND EXISTING CONTROLS MADE AVAILABLE DURING DEMOLITION.
- R2 RE-CONNECT WALL DEVICES WITHIN THIS ROOM TO EXISTING CIRCUITS MADE AVAILABLE DURING DEMOLITION.
- R3 CONNECT NEW DEVICE TO EXISTING CIRCUIT MADE AVAILABLE DURING DEMOLITION. EXTEND CIRCUIT AS REQUIRED.
- R4 INDICATED DEVICES ARE TO BE INSTALLED IN RECESSED BOX FOR CEILING PROJECTOR MOUNT. CONFIRM EXACT LOCATION ON SITE PRIOR TO ROUGH IN TO ENSURE PROPER DISTANCE/ORIENTATION FROM SCREEN. RECESSED PROTECTION BOX IS TO BE EQUAL TO FSR CAT. #CB-22P, SUPPLIED AND INSTALLED BY ELECTRICAL CONTRACTOR.
- R5 INDICATES HARDWIRED CONNECTION FOR INSTALLATION OF CEILING MOUNTED TOPCAT SOUND FIELD. CONNECT TO NEARBY EXISTING CIRCUIT. CONTRACTOR TO COORDINATE WITH SCHOOL BOARD FOR SHOP DRAWINGS, PROVIDE RECEPTACLE IF REQUIRED ON FINAL SHOP DRAWINGS.
- R6 INDICATES 120V FEED TO 24VDC STEP DOWN TRANSFORMER MOUNTED ABOVE CEILING OR AT A HIGH LEVEL FOR AUTOMATIC FIXTURE(S). COORDINATE WITH MECHANICAL TRADE.
- R7 INDICATES DOOR OPERATOR, REFER TO DETAIL A/E101 FOR MORE INFORMATION.
- R8 INDICATES NOTED FIXTURE TO BE CONNECTED AND CONTROLLED WITH CORRIDOR CIRCUIT
- R9 INDICATES NEW EXHAUST FAN TO BE FED FROM EXISTING PANEL MM AS NOTED ON PLANS. COORDINATE EXACT LOCATION WITH MECHANICAL TRADE.

ELECTRICAL SPECIFICATION

- PROVIDE LABOUR MATERIAL AND EQUIPMENT REQUIRED TO PROVIDE A COMPLETE INSTALLATION WITH QUALITY WORKMANSHIP ACCEPTABLE TO THE OWNER, ARCHITECT AND CONSULTANT.
- 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.
- COMPLY WITH RULES AND RECOMMENDATIONS OF THE BOARD OF UNDERWRITERS, ELECTRICAL SAFETY AUTHORITY, THE CANADIAN STANDARDS ASSOCIATION AND ALL REQUIREMENTS OF THE LOCAL UTILITY.
- 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.
- 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.
- SUBMIT COPIES OF SHOP DRAWINGS PDF FILES VIA EMAIL FOR ALL MAJOR EQUIPMENT. THESE WILL BE REVIEWED BY THE CONSULTANT. RESUBMIT AS OFTEN AS MAY BE FOUND NECESSARY
- 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.
- 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 TWO (2) YEARS 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")
 IN MECHANICAL/ELECTRICAL ROOMS: 1100mm (44") (GANG WITH SWITCH).
- 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 SUBMIT ONE COPY OF OPERATING AND MAINTENANCE INSTRUCTIONS IN A THREE RING BINDER LABELED FOR THE PROJECT COMPLETE WITH ITEMIZED SECTIONS CONTAINING PROJECT DATA, SHOP DRAWINGS, ETC. UPON ACCEPTANCE OF THE OPERATION AND MAINTENANCE MANUAL BY THE CONSULTANT PROVIDE TWO ADDITIONAL COPIES BOUND IN SEPARATE THREE RING BINDERS. A PDF FILE OF THE ENTIRE MANUAL IS TO BE PROVIDED ON A USB STICK. ONLY ONE USB STICK IS TO BE PROVIDED CONTAINING BOTH THE APPROVED MANUALS AND RECORD DRAWINGS.
- .19 CONTRACTOR SHALL PROVIDE 2 SETS OF REPRODUCIBLE ELECTRICAL DRAWINGS. MARK THEREON ALL CHANGES AS WORK PROGRESSES AND AS CHANGES OCCUR. THIS SHALL INCLUDE FIELD AND CONTRACT CHANGES TO ELECTRICAL SYSTEMS. IDENTIFY EACH DRAWING IN LOWER RIGHT HAND CORNER IN LETTERS AT LEAST 3mm (1/8") HIGH AS FOLLOWS: - "RECORD DRAWINGS: THIS DRAWING HAS BEEN REVISED TO SHOW ELECTRICAL SYSTEMS AS INSTALLED. (SIGNATURE OF CONTRACTOR)(DATE)". SUBMIT HARD COPY TO CONSULTANT FOR APPROVAL. WHEN RETURNED, MAKE CORRECTIONS (IF ANY) AS DIRECTED. ONCE APPROVED, SUBMIT COMPLETED REPRODUCIBLE PAPER RECORD DRAWINGS AS WELL AS A SCANNED PDF COPY FILE ON USB STICK WITH OPERATING AND MAINTENANCE MANUALS.
- .20 THE CONTRACTOR WILL INCLUDE REDLINES FOR EACH AND EVERY ELECTRICAL DRAWING FOR DEI & ASSOCIATES INC. TO CAD THE RECORD DRAWINGS. THE CAD DRAWING FILES WILL BE PROVIDED TO THE OWNER AS PART OF THE MAINTENANCE MANUALS.

- .1 JUNCTION, OUTLET AND PULL BOXES MUST BE APPROVED TO SUIT INSTALLATION METHODS AND ENVIRONMENT.
- 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
- 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).
- 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.
- <u>COLOUR</u> YELLOW SYSTEM UP TO 208V
- FIRE ALARM
- .10 THIS CONTRACTOR MUST PAINT ALL SYSTEM JUNCTION BOXES AND COVERS IN CONFORMANCE WITH THE ABOVE SCHEDULE.

DRAW BREAKDOWN

- 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.
- BREAKDOWN SHALL BE AS FOLLOWS: PERMITS AND FEES
- MOBILIZATION (MAXIMUM 1%) DEMOLITION
- BRANCH CONDUITS
- BRANCH WIRING LIGHTING FIXTURES
- WIRING FOR MECHANICAL EQUIPMENT CONTRACT CLOSEOUT (MINIMUM 3% BUT NO LESS THAN \$1,000.00)
- .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

- 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. IF MATERIAL OR EQUIPMENT IS NOT AS SPECIFIED OR SUBMITTAL IS NOT COMPLETE, IT WILL BE REJECTED BY CONSULTANT. 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. PARTIAL SUBMITTALS WILL NOT BE ACCEPTED. CATALOG DATA OR SHOP DRAWINGS FOR EQUIPMENT, WHICH ARE NOTED AS BEING REVIEWED BY CONSULTANT OR HIS ENGINEER
- SHALL NOT SUPERSEDE CONTRACT DOCUMENTS. 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. CHECK WORK DESCRIBED BY CATALOG DATA WITH CONTRACT DOCUMENTS FOR DEVIATIONS AND ERRORS
- SHOP DRAWINGS AND PRODUCT DATA SHALL SHOW: MOUNTING ARRANGEMENTS.
- OPERATING AND MAINTENANCE CLEARANCES. E.G. ACCESS DOOR SWING SPACES.
 - 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. CERTIFICATION OF COMPLIANCE TO APPLICABLE CODES.
- .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 INDICATION THAT THE COMMENTS HAVE BEEN COMPLIED WITH.
- .12 A PARTIAL LIST OF SHOP DRAWINGS INCLUDES:
- LUMINAIRES FIRESTOPPING MATERIALS

HAND DRYERS 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 INSTALL SWITCHES IN GANG TYPE OUTLET BOX WHEN MORE THAN ONE SWITCH IS REQUIRED IN ONE LOCATION. .4 RECEPTACLES, PLUGS, AND OTHER SIMILAR WIRING DEVICES MUST CONFORM TO CSA C22.2 NO. 42 (LATEST EDITION).
- .5 DUPLEX RECEPTACLES, CSA TYPE 5-15 R, 125 V, 15 A, U GROUND, WITH THE FOLLOWING FEATURES: UREA MOLDED HOUSING WITH COLOUR AS SELECTED BY ARCHITECT.
- SUITABLE FOR NO. 10 AWG FOR BACK AND SIDE WIRING. BREAK-OFF LINKS FOR USE AS SPLIT RECEPTACLES.
- EIGHT BACK WIRED ENTRANCES, FOUR SIDE WIRING SCREWS TRIPLE WIRE CONTACTS AND RIVETED GROUNDING CONTACTS.
- .6 ACCEPTABLE MATERIALS:
 - TAMPER RESISTANT RECEPTACLE: HUBBELL CAT. #BR15TR
 - TAMPER RESISTANT T-SLOT RECEPTACLE: HUBBELL CAT. #BR20TR TAMPER RESISTANT GROUND FAULT PROTECTED RECEPTACLE: HUBBELL CAT. #GFTR15
- TAMPER RESISTANT GROUND FAULT PROTECTED T-SLOT RECEPTACLE: HUBBELL CAT. #GFTR20
- .7 OTHER RECEPTACLES WITH AMPACITY AND VOLTAGE AS INDICATED. COLOUR BY ARCHITECT
- .8 ACCEPTABLE ALTERNATE MANUFACTURERS INCLUDE:
- PASS & SEYMOUR
- .9 INSTALL DEVICES IN GANG TYPE OUTLET BOX WHEN MORE THAN ONE DEVICE IS REQUIRED IN ONE LOCATION.
- .10 SHEET STEEL UTILITY BOX COVER FOR WIRING DEVICES INSTALLED IN SURFACE MOUNTED UTILITY BOXES.
- .11 STAINLESS STEEL, VERTICALLY BRUSHED COVER PLATES FOR WIRING DEVICES MOUNTED IN FLUSH-MOUNTED OUTLET BOXES.
- .12 SHEET METAL COVER PLATES FOR WIRING DEVICES MOUNTED IN SURFACE-MOUNTED FS OR FD TYPE CONDUIT BOXES.
- .13 PROTECT STAINLESS STEEL COVER PLATE FINISH WITH PAPER OR PLASTIC FILM UNTIL PAINTING AND OTHER WORK IS FINISHED
- .14 INSTALL SUITABLE COMMON COVER PLATES WHERE WIRING DEVICES ARE GROUPED.

EQUIPMENT

- .1 HAND DRYERS
- HAND DRYERS WHERE NOTED ON THE DRAWINGS ARE TO BE SUPPLIED AND INSTALLED BY THIS DIVISION WITH THE FOLLOWING FEATURES:
 - SURFACE MOUNTING. FIXED NOZZLE.
 - WHITE FINISH WITH AUTOMATIC ACTIVATION. RATING OF 1800W (20A) AT 120V.
- NOVA 5
- .6 APPROVED ALTERNATE: WORLD DRYER CAT. #XA5-2-974.

LIGHTING SYSTEMS

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

- - .1 FIXTURE LED'S MUST BE TESTED IN CONFORMANCE WITH IESNA LM80 STANDARD. .2 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.
 - 4 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
 - .7 LUMEN VALUES INDICATED FOR FIXTURES IN THE PROJECT DOCUMENTS ARE TO BE CONSIDERED AS 'ABSOLUTE' OR
 - .8 OTHER THAN FOR SPECIALTY FIXTURES, AND UNLESS OTHERWISE INDICATED, THE MAXIMUM DRIVER CURRENT IS TO BE
- .2 FIXTURE INSTALLATION .1 LOCATE AND INSTALL LUMINAIRES AS INDICATED.
- .2 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
- .4 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 INSTALL EXIT LIGHTING UNITS AS INDICATED WITH ILLUMINATED FACES AND CHEVRONS/ARROWS INDICATING PATH(S) OF EXIT.
- .6 INSTALL EMERGENCY LIGHTING UNITS AND ASSOCIATED REMOTE MOUNTED FIXTURES AS INDICATED.
- .7 DIRECT "HEADS" ON UNITS AND REMOTE MOUNTED FIXTURES TO ILLUMINATE PATH(S) OF EXIT.
- .8 INSTALL EMERGENCY LIGHTING UNITS AND REMOTE FIXTURES AT 8' (2400mm) ABOVE FINISHED FLOOR UNLESS INDICATED
- .9 PROVIDE A 15A 120V DUPLEX RECEPTACLE (CONNECT TO CIRCUIT INDICATED) ADJACENT TO UNIT.
- .10 CONNECT LUMINAIRES TO LIGHTING CIRCUITS AS INDICATED.
- .11 CONNECT EXIT FIXTURES TO EXIT LIGHTING CIRCUITS AND UNIT EQUIPMENT (IF APPLICABLE).
- .12 CONNECT UNIT EQUIPMENT TO CIRCUITS AS INDICATED
- .13 ALL WIRING OF REMOTE EMERGENCY FIXTURES SHALL BE MINIMUM #10 T90 FOR EACH CIRCUIT AND RUN IN CONDUIT. WIRING MUST BE SIZED IN CONFORMANCE WITH MANUFACTURERS' RECOMMENDATIONS FOR DISTANCE REQUIRED.
- .14 ALIGN LUMINAIRES MOUNTED IN CONTINUOUS ROWS TO FORM STRAIGHT UNINTERRUPTED LINES.
- .15 ALIGN LUMINAIRES MOUNTED INDIVIDUALLY PARALLEL OR PERPENDICULAR TO BUILDING GRID LINES. .16 ALL LIGHTING BRANCH CIRCUITS ARE TO BE PROVIDED WITH SEPARATE NEUTRALS.
- .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
- .1 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:
- DATF EQUIPMENT TYPE
- CERTIFICATION OF CORRECT CONNECTION CERTIFICATION OF CORRECT OPERATION
- DURATION OF TEST IN MINUTES (MINIMUM 30) ACTUAL PERIOD OF TESTING (TIME OF DAY)

FIRESTOPPING

TESTED.

- .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
- .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.
- .12 ACCEPTABLE MANUFACTURERS: FYREESLEEVE INDUSTRIES INC GENERAL ELECTRIC PENSIL FIRESTOP SYSTEMS INTERNATIONAL PROTECTIVE COATINGS CORP.
- RECTORSEAL CORPORATION (METACAULK) PROSET SYSTEMS
- AD SYSTEMS ROYAL

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.



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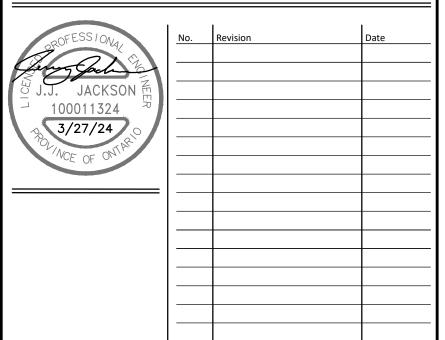
MECHANICAL | ELECTRICAL | AQUATIC

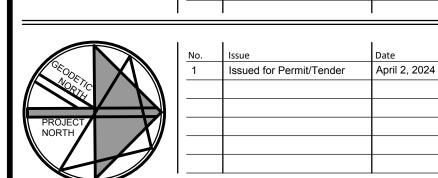
The contractor shall verify all dimensions and report all errors and discrepancies to the Consultant before commencement of the work. The drawings show general arrangement of services. Follow as closely as actual building construction will permit. Obtain approva for relocation of service from Consultant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

The drawings do not indicate all offsets fitting and accessories which

may be required. Provide the same to meet the required 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. Do not scale this drawing. © 2024 DEI Consulting Engineers Inc.

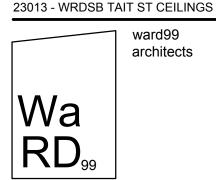
NOTE: THIS DRAWING IS NOT TO BE SCALED. THE CONTRACTOR IS RESPONSIBLE FOR THE VERIFICATION OF ALL SITE DIMENSIONS AND FOR NOTIFYING THE ARCHITECT OF ANY SITE CONDITIONS AND SITE MEASUREMENTS THAT ARE NOT CONSISTENT WITH THE DRAWINGS.





WRDSB TAIT STREET PUBLIC SCHOOL CEILINGS RENOVATIONS

WATERLOO REGION DISTRICT SCHOOL BOARD 184 TAIT STREET, CAMBRIDGE, ON N1S 3G3



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SPECIFICATIONS

ward99 project number

drawing scale AS NOTED

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