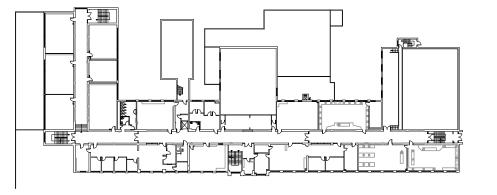


KEY PLAN SCALE: N.T.S.



SECOND FLOOR

GENERAL NOTES

- ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE PREPARED SPECIFICATION.

REHEAT COIL SCHEDULE										
Item	Size	Nominal cfm	EWT *F	LWT *F	EAT °F	LAT *F	Capacity MBH	Flow gpm	Manufacturer	Remarks
RH-1	450x350	1200	150	130	75	95	25.9	2.59	IENIC AIR	SIZE INDICATES FACE SIZE. SUPPORT UNIT FROM STRUCTURE

MECHANICAL LEGEND					
Item	Description				
	CUT EXISTING & CONNECT NEW PIPING				
 1	SCREWED OR WELDED PIPE CAP				
——нws——	HEATING WATER SUPPLY PIPING				
— —HWR— —	HEATING WATER RETURN PIPING				
G	THERMOSTAT (WITH OR WITHOUT GUARD)				
	SUPPLY AIR DUCT				
	RETURN/EXHAUST AIR DUCT				
— BD	BALANCING DAMPER				
✓ AE	AIR EXTRACTOR				
→ OBD	OPPOSED BLADE DAMPER				
T FD	FIRE DAMPER				
-\\\\- 0 FSD	COMBINATION FIRE/SMOKE DAMPER				
-11111-0 SD	SMOKE DAMPER				
Type Size Cap.	DIFFUSER/GRILLE SIZE (imp), TYPE & CAPACITY (cfm)				
CTE	CONNECT TO EXISTING				
——EX——	EXISTING DUCT (SIZE AS INDICATED)				

	No.	ISSUANCE	DATE
	1	ISSUED FOR BID & PERMIT	2025-02-26
J			

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.

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.

© 2025 DEI Consulting Engineers Inc.

© 2025 DEI Consulting Engineers Inc.



Phone: 519-725-3555 Website: deiassociates.ca

Waterloo, ON, N2V 1Y8

Consulting Engineers ∩ In MECHANICAL | ELECTRICAL | AQUATIC

WATERLOO DISTRICT SCHOOL

BOARD

51 Ardelt Ave, Kitchener, ON N2C 2R5

CLIENT LOGO

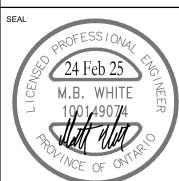
WRDSB EDSS RENOVATIONS

4 UNIVERSITY AVE EAST, ELMIRA, ONTARIO N3B 1K2

KEY PLAN, LEGEND AND SCHEDULES

WALTERFEDY

800.685.1378 walterfedy.com



As indicated 2024-08-08 2022-0277-12 PROJECT NO: DRAWN BY :

CHECKED BY: SO

M101

REFER TO SPECIFICATIONS FOR DETAILS REGARDING REQUIRED SHOP DRAWINGS SUBMISSIONS, INDEPENDENT SITE TESTING, AND SITE WORK

PROVIDE WRDSB ASSET & WARRANTY CARD FOR ALL ASSETS REPLACED, NEWLY INSTALLED AND REMOVED.

<u>REH</u>	REHEAT COIL SCHEDULE										
ltem	Size	Nominal cfm	EWT *F	LWT *F	EAT *F	LAT *F	Capacity MBH	Flow gpm	Manufacturer	Remarks	
RH-1	450x350	1200	150	130	75	95	25.9	2.59	ENG AIR	SIZE INDICATES FACE SIZE. SUPPORT UNIT FROM STRUCTURE	

GRILLE SCHEDULE

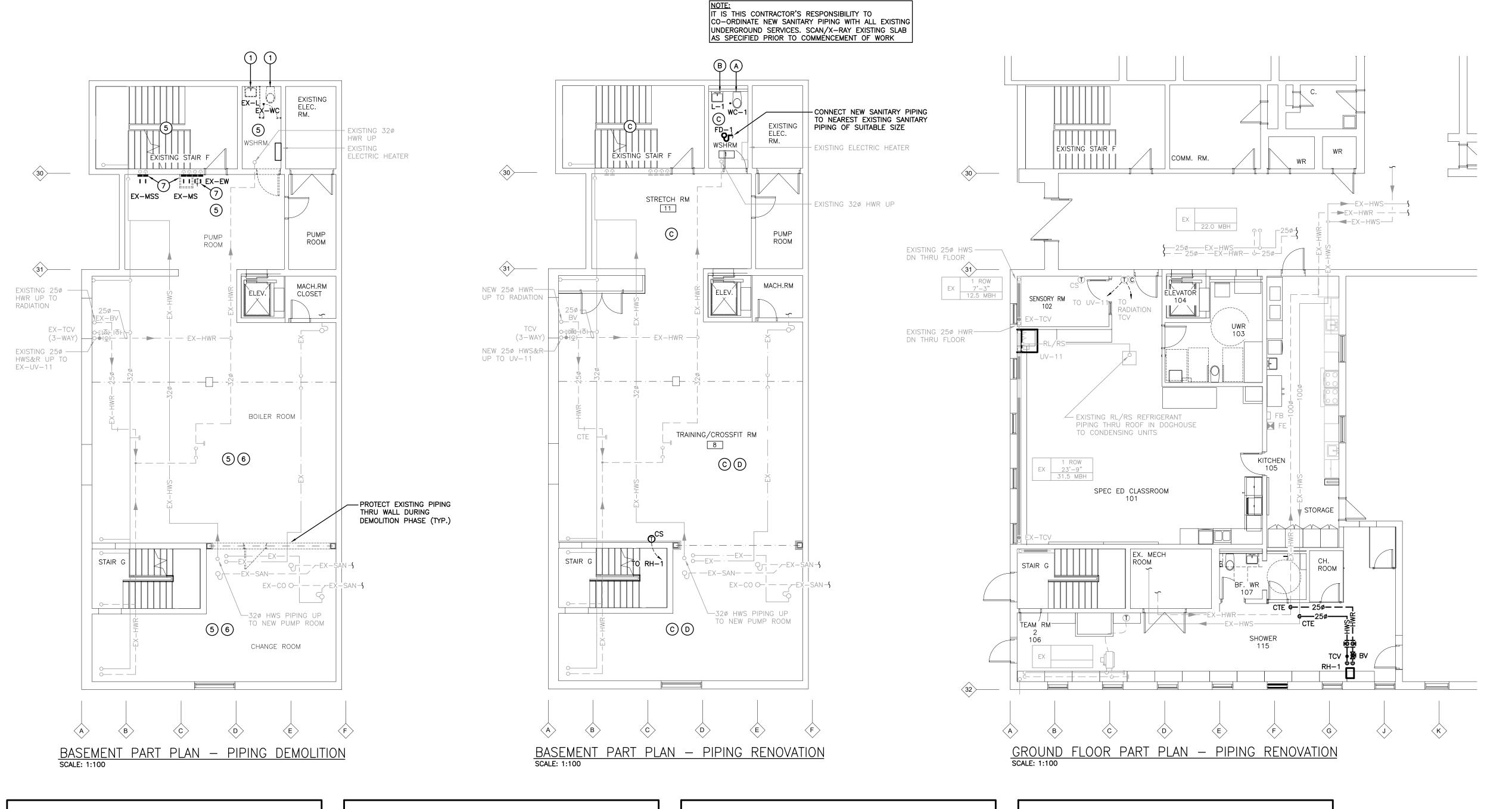
ltem	Туре	Manufacturer & Model	Finish	Remarks	
S1	SUPPLY GRILLE	KRUEGER AF80	BRITISH WHITE SINGLE DEFLECTION,	3/4" SPACING, STEEL BLADES PARALLEL TO LONG DIMENSION, C/W 1-1/4" FLAT BORDER & SCREWED FASTENING FOR SURFACE MOUNTING	
R1	CEILING RETURN GRILLE	KRUEGER S585	BRITISH WHITE FIXED BLADE AT 45°	, 1/2" SPACING, EXTRUDED ALUMINUM BLADES PARALLEL TO LONG DIMENSION, C/W 1-1/4" FLAT BORDER & SCREWED FASTENING FOR SURFACE MOUNTING	
R2	SIDEWALL RETURN GRILLE	KRUEGER S80	BRITISH WHITE FIXED BLADE AT 45°	, 3/4" SPACING, STEEL BLADES PARALLEL TO LONG DIMENSION, C/W 1-1/4" FLAT BORDER & SCREWED FASTENING FOR SURFACE MOUNTING	

ACCEPTABLE MANUFACTURERS: EH PRICE, NAILOR, TITUS, KRUEGER, CARNES, METALAIRE, TUTTLE & BAILEY GRILLE COLOURS ARE SELECTED BY ARCHITECT FROM STANDARD COLOUR CHART, UNLESS OTHERWISE NOTED.

PAINT INTERIOR OF DUCTWORK BEHIND GRILLE MATT BLACK (WHERE VISIBLE THRU GRILLE).

		SCHEDULE
PIUMBING	FIXIURE	\sim \sim \sim

Item	Туре	Connection Sizes		Fixture		Trim		Accessories
цет	Турс	HW CW TW Drain Vent	Acceptable Manufacturer	Fixture Description	Acceptable Manufacturer	Trim Description	Acceptable Manufacturer	Accessory Description
WC-1	WATER CLOSET FLUSH VALVE (HANDS FREE)	1 3 1 1/2			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). CO-ORDINATE SENSOR IS INSTALLED ABOVE TOILET SEAT.	BEMIS	SEAT: BLACK, ELONGATED, OPEN FRONT, LESS COVER, MOLDEI SOLID ANTIMICROBIAL PLASTIC, STAINLESS STEEL CHECK HINGES, STAINLESS STEEL OR SOLID BRASS INSERT POST. MIN. 1000 MAP PERFORMANCE.
L-1	WALL MOUNTED LAV (HANDS FREE)		AMERICAN STANDARD LUCERNE 355.012 KOHLER BRENHAM K-1997 ZURN Z5344	WALL—HUNG SINK, VITREOUS CHINA, WITH SPLASH LIP, SUPPLY OPENINGS ON 100 MM (4") CENTRES, OVERFLOW. SIZE: 557 MM X 502 MM (21 15/16" X 19 3/4").		HARDWIRED ELECTRONIC FAUCET. CAST BRASS ONE PIECE BODY WITH INTEGRAL WATER PROOF INFRA—RED SENSOR AND CONNECTOR. ADJUSTABLE SENSING RANGE 76MM TO 381MM (3" TO 15") AND TIME OUT 15 TO 75 SECONDS CHROME FINISH. VANDAL RESISTANT AERATOR HAVING INTEGRAL FLOW CONTROL FOR 0.5GPM (1.9 L/MIN) @ 413 KPA (60 PSI) MAX. SENSOR ACTIVATES IN PRESENCE OF PERSON'S HANDS IN LAVATORY. C/W PLUG—IN TRANSFORMER. MECHANICAL MIXING VALVE (SET TO 105°F), SOLENOID DRIVER BOARD, ETC. SHALL BE INSTALLED IN RECESSED CONTROL BOX#DSP—591TCB8 SURFACE MOUNTED CONTROLS/DEVICES WILL NOT BE ACCEPTED.		WASTE FITTING: OPEN GRID STRAINER. PROVIDE FLOOR MOUNTED WALL CARRIER THERMOSTATIC MIXING VALVE UNDER LAV. DELTA R3070-MIXLF, POWERS LM490 OR EQUAL.
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				



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 BENAND.
- 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. CUT PIPING AT FLOOR/WALL & PREPARE FOR CONNECTION TO NEW FIXTURE.
- 2. EXISTING EXHAUST FAN & ASSOCIATION CONTROLS TO BE REMOVED COMPLETE.
- 3. EXISTING DUCTWORK TO BE REMOVED COMPLETE.
- 4. EXISTING GRILLE/LOUVER TO BE REMOVED COMPLETE.
- REMOVE ALL EXISTING REDUNDANT DOMESTIC/SANITARY/VENTING PIPING AND CONTROLS COMPLETE. DRAIN, CAP & CONCEAL ANY ABANDON SERVICES IN WALL/FLOOR. VALVE & CAP SERVICES AT MAIN/SOURCE.
- 6. REMOVE EXTENT OF REDUNDANT PNEUMATIC TUBING BACK TO SOURCE. EXISTING PNEUMATIC TUBING TO BE SOLDERED/CRIMPED IN CONCEALED LOCATION.
- 7. EXISTING PLUMBING FIXTURE TO BE REMOVED COMPLETE. CUT & CAP PIPING IN CONCEALED LOCATION & DRAIN LINES.

GENERAL RENOVATION NOTES

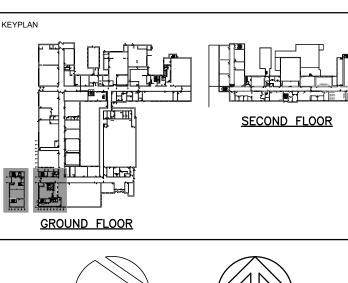
CONTRACTOR TO CARRY IN THEIR PRICING TO DRAIN SYSTEM OR FREEZE PIPING TO COMPLETE WORK

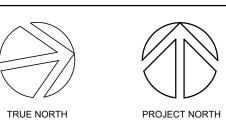
SPECIFIC RENOVATION NOTES

- A. NEW WATERCLOSET CONNECT TO EXISTING PIPING AT WALL/FLOOR. PROVIDE NEW FLOOR FLANGE & WAX RING.
- B. NEW LAVATORY CONNECT TO EXISTING PIPING AT WALL. PROVIDE NEW SUPPLIES & WASTE.
- C. PAINT ALL NEW & EXISTING EXPOSED SERVICES (DUCTWORK, PIPING, ETC.)
 PROVIDE PVC JACKET & LABELS ON ALL EXPOSED PIPING.
- D. INSULATE & JACKET ON EXTENT OF EXISTING TRAP PRIMER LINES. LABEL PIPING



CLIENT LOGO





No. ISSUANCE DATE

1 ISSUED FOR BID & PERMIT 2025-02-26

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. 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.



Consulting Engineers

WATERLOO DISTRICT SCHOOL BOARD

51 Ardelt Ave, Kitchener, ON N2C 2R5

© 2025 DEI Consulting Engineers In

PROJECT

WRDSB EDSS RENOVATIONS

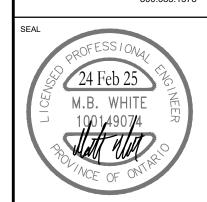
4 UNIVERSITY AVE EAST, ELMIRA, ONTARIO N3B 1K2

TITLE

BASEMENT & GROUND FLOOR
PIPING DEMOLITION AND
RENOVATION

WALTERFEDY

KITCHENER | HAMILTON | TORONTO



SO

CHECKED BY :

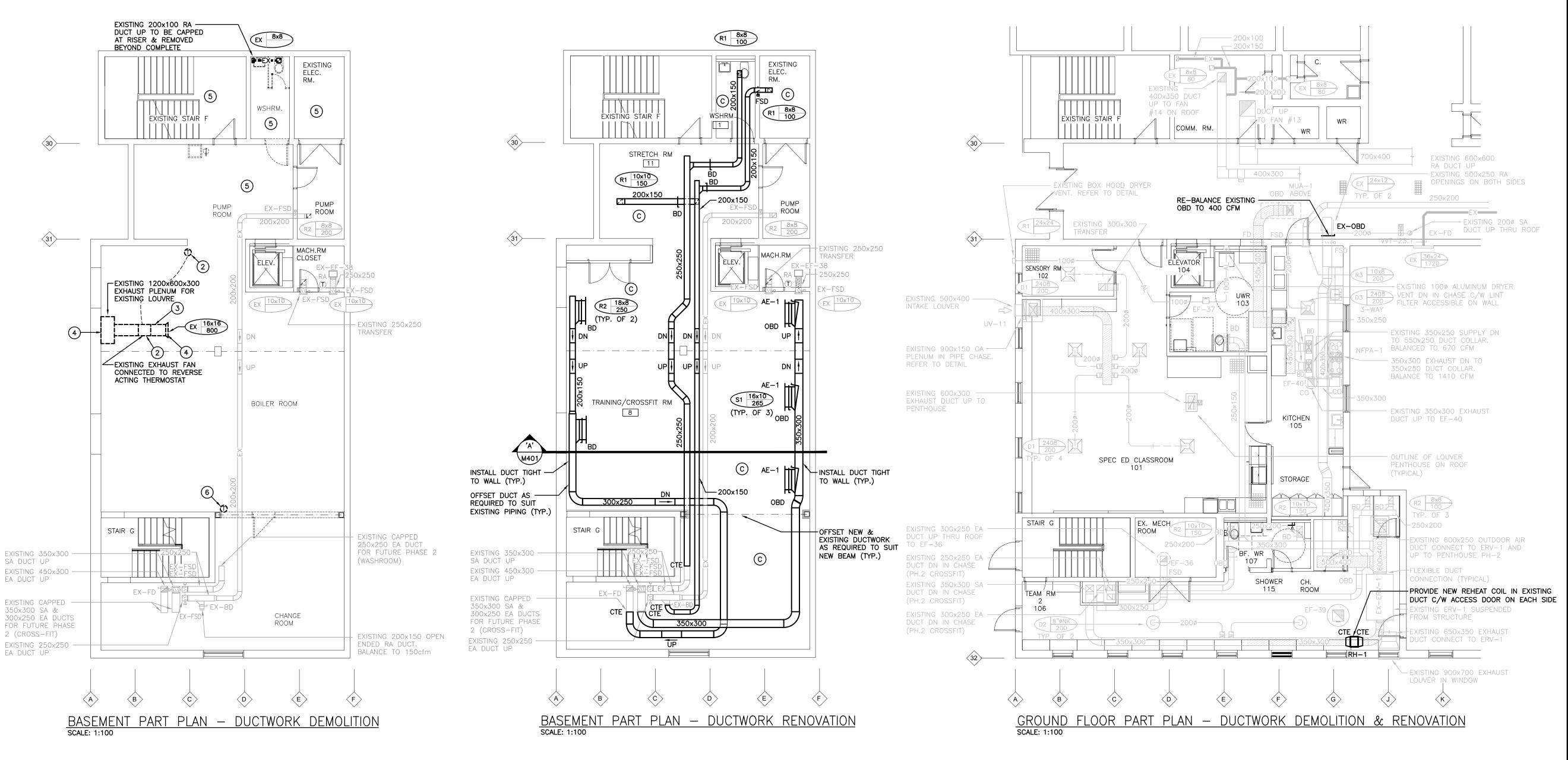
As indicated SHEET 2024-08-08 20: 2022-0277-12

M201

SCALE :

DATE :

PROJECT NO :



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. CUT PIPING AT FLOOR/WALL & PREPARE FOR CONNECTION TO NEW FIXTURE.
- 2. EXISTING EXHAUST FAN & ASSOCIATION CONTROLS TO BE REMOVED COMPLETE. EXHAUST FAN TO BE TURNED OVER TO OWNER.
- 3. EXISTING DUCTWORK TO BE REMOVED COMPLETE.
- 4. EXISTING GRILLE/LOUVER TO BE REMOVED COMPLETE.
- REMOVE ALL EXISTING REDUNDANT DOMESTIC/SANITARY/VENTING PIPING AND CONTROLS COMPLETE. DRAIN, CAP & CONCEAL ANY ABANDON SERVICES IN WALL/FLOOR. VALVE & CAP SERVICES AT MAIN/SOURCE.
- 6. EXISTING THERMOSTAT TO BE REMOVED COMPLETE. EXISTING CONTROL WIRING TO BE REMOVED BACK TO SOURCE.

GENERAL RENOVATION NOTES

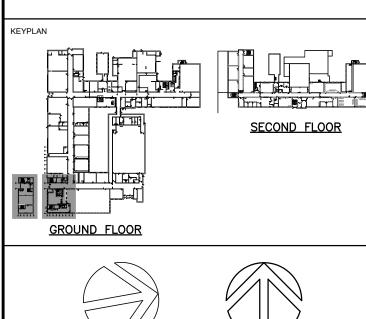
- REFER TO ARCHITECTURAL CEILING PLANS FOR GRILLES/DIFFUSERS LOCATIONS. CO-ORDINATE FINAL LOCATION ON SITE.
- RE-BALANCE TO CAPACITIES WHERE INDICATED. PROVIDE EXISTING BALANCING CAPACITIES PRIOR TO DEMOLITION PHASES TO CONSULTANT FOR REVIEW.

SPECIFIC RENOVATION NOTES

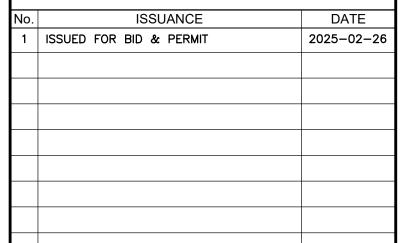
- A. NEW WATERCLOSET CONNECT TO EXISTING PIPING AT WALL/FLOOR. PROVIDE NEW FLOOR FLANGE & WAX RING.
- B. NEW LAVATORY CONNECT TO EXISTING PIPING AT WALL. PROVIDE NEW SUPPLIES & WASTE.
- C. PAINT ALL NEW & EXISTING EXPOSED SERVICES (DUCTWORK, ETC.) PROVIDE PVC JACKET & LABELS ON ALL EXPOSED PIPING.



CLIENT LOGO



TRUE NORTH



PROJECT NORTH

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.

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.

© 2025 DEI Consulting Engineers Inc.



Consulting Engineers 17 MECHANICAL | ELECTRICAL | AQUATIC

WATERLOO DISTRICT SCHOOL BOARD

51 Ardelt Ave, Kitchener, ON N2C 2R5

PROJECT

WRDSB EDSS RENOVATIONS

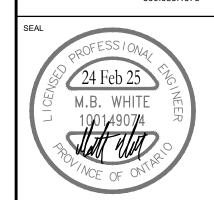
4 UNIVERSITY AVE EAST, ELMIRA, ONTARIO N3B 1K2

TITLE

BASEMENT & GROUND FLOOR DUCTWORK DEMOLITION AND RENOVATION

WALTERFEDY

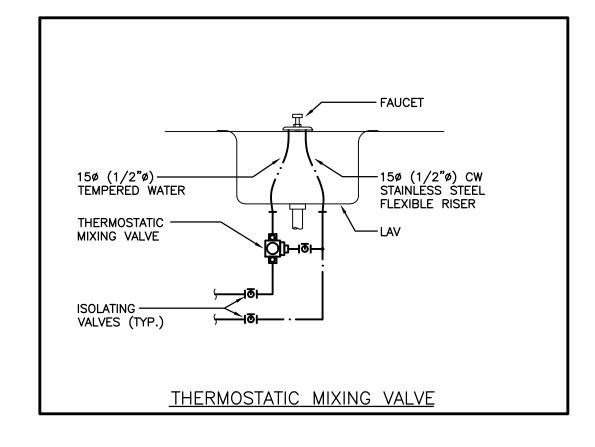
KITCHENER | HAMILTON | TORONTO

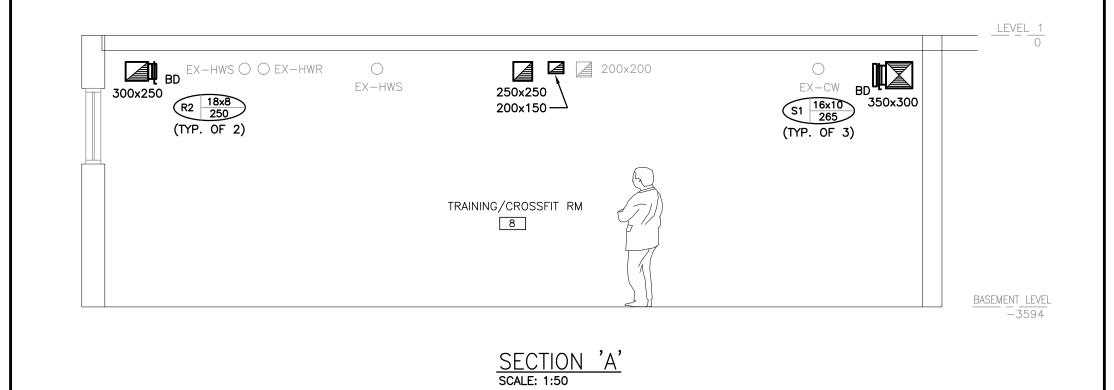


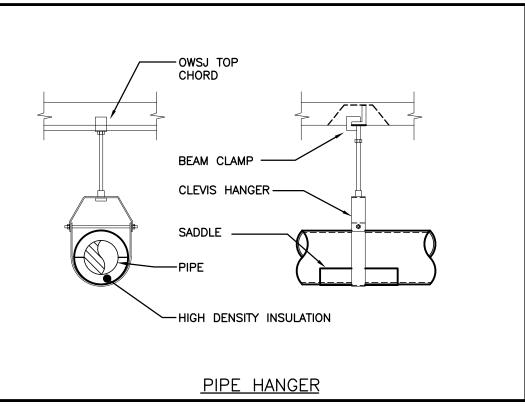
SCALE :	As indicated	SHEET
DATE :	2024-08-08	
PROJECT NO:	2022-0277-12	
DRAWN BY :	AP	

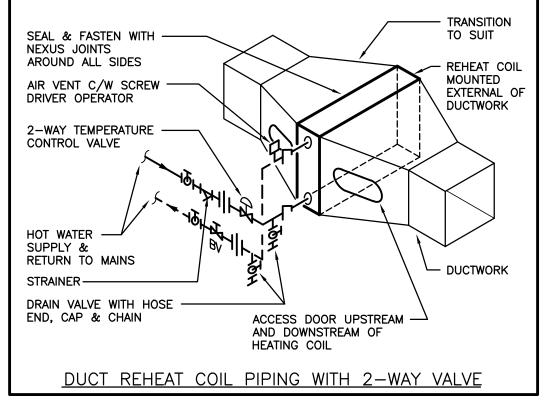
CHECKED BY :

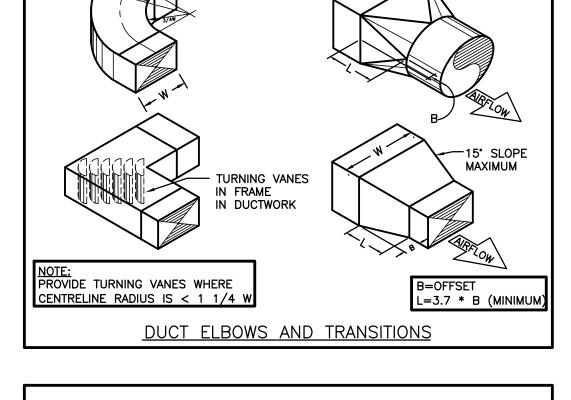
M301

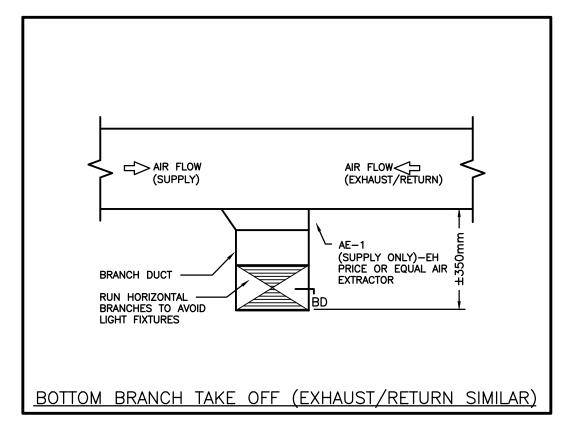


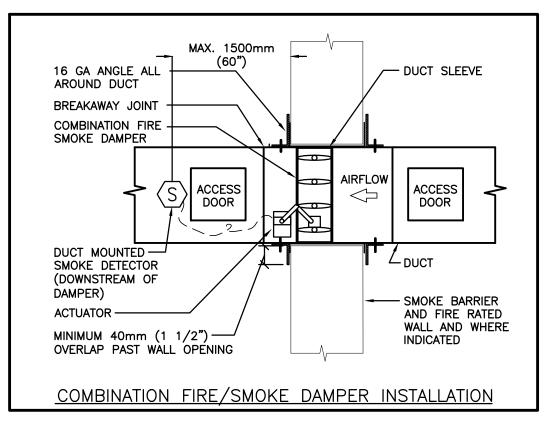


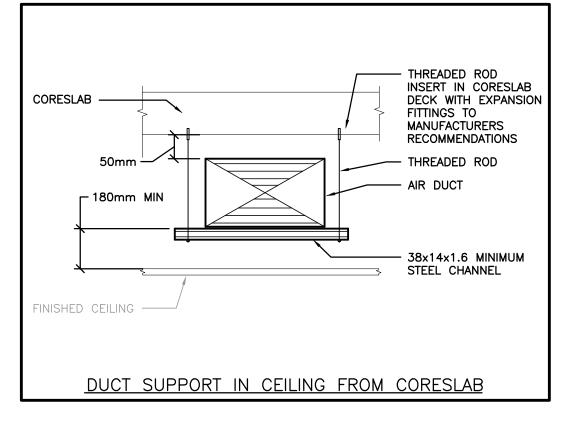


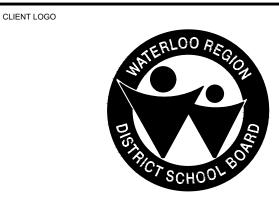












KEYPLAN

/ 15° SLOPE

MAXIMUM

No.	ISSUANCE	DATE
1	ISSUED FOR BID & PERMIT	2025-02-26

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.

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

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

Do not scale this drawing.

© 2025 DEI Consulting Engineers Inc.



Waterloo, ON, N2V 1Y8
Phone: 519-725-3555
Website: deiassociates.ca
Project Number: 24395

Consulting Engineers not mechanical electrical aquatic

WATERLOO DISTRICT SCHOOL BOARD

51 Ardelt Ave, Kitchener, ON N2C 2R5

PROJECT

WRDSB EDSS RENOVATIONS

4 UNIVERSITY AVE EAST, ELMIRA, ONTARIO N3B 1K2

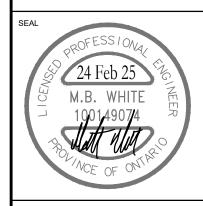
TITLE

DETAILS

WALTERFEDY

KITCHENER

| HAMILTON | TORON 800.685.1378 walterfedy.com



CHECKED BY : SO

SCALE :	As indicated	SHEET N
DATE :	2024-08-08	
PROJECT NO:	2022-0277-12	
DRAWN BY :	AP	

M401