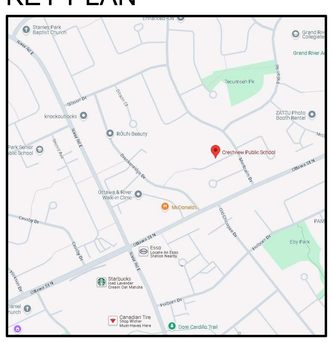


KEY PLAN



Tender No. 25-7632-RFT

CRESTVIEW OFFICE RENOVATION & HVAC UPGRADE

153 Montcal Dr. Kitchener, ON

250331

HOSSACK & ASSOCIATES ARCHITECTS
5-2155 DUNWIN DRIVE
MISSISSAUGA, ONTARIO L5L 4M1
Tel (905) 607-6264 Fax (905) 607-8280

MTE

DEI Consulting Engineers
MECHANICAL | ELECTRICAL | AQUATIC
55 Northland Road, Waterloo, ON N2V 1Y8
Phone: 519-725-3555 Fax: 519-725-3515
Website: deiassociates.ca

CRESTVIEW OFFICE RENOVATION & HVAC UPGRADE

ARCHITECTURAL

SP1 DEMOLITION & PROPOSED SITE PLAN

A01 KEY PLAN, FIRE SEPARATION & OBC MATRIX
A02 PARTIAL DEMOLITION FLOOR PLAN
A03 PARTIAL PROPOSED FLOOR PLAN
A04 PARTIAL DEMOLITION & PROPOSED RCP
A05 PARTIAL ROOF DEMOLITION & PROPOSED PLAN & DETAILS
A06 PARTIAL EXTERIOR BUILDING ELEVATIONS & SECTIONS
A07 WALL SECTIONS
A08 INTERIOR ELEVATIONS, ENLARGED WASHROOM PLANS & FLOOR PATTERN PLAN

STRUCTURAL

S1.01 STRUCTURAL DATA AND TABLES
S1.02 STANDARD DETAILS
S2.01 FOUNDATION PLAN
S2.02 CANOPY & ROOF FRAMING PLANS
S3.01 SECTIONS

MECHANICAL

M101 SCHEDULES 1
M102 SCHEDULES 2
M201 GROUND FLOOR PLAN BLOCKS A & B DEMO
M202 GROUND FLOOR PLAN BLOCK C DEMO
M203 GROUND FLOOR BLOCK D DEMO
M301 GROUND FLOOR PLAN BLOCK A & B RENO
M302 GROUND FLOOR PLAN BLOCK C RENO
M303 GROUND FLOOR PLAN BLOCK D RENO
M401 ROOF PART PLAN BLOCK A DEMO/RENO
M402 ROOF PART PLAN BLOCK B DEMO/RENO
M403 ROOF PART PLANS BLOCK C & D DEMO/RENO
M501 DETAILS 1
M502 DETAILS 2

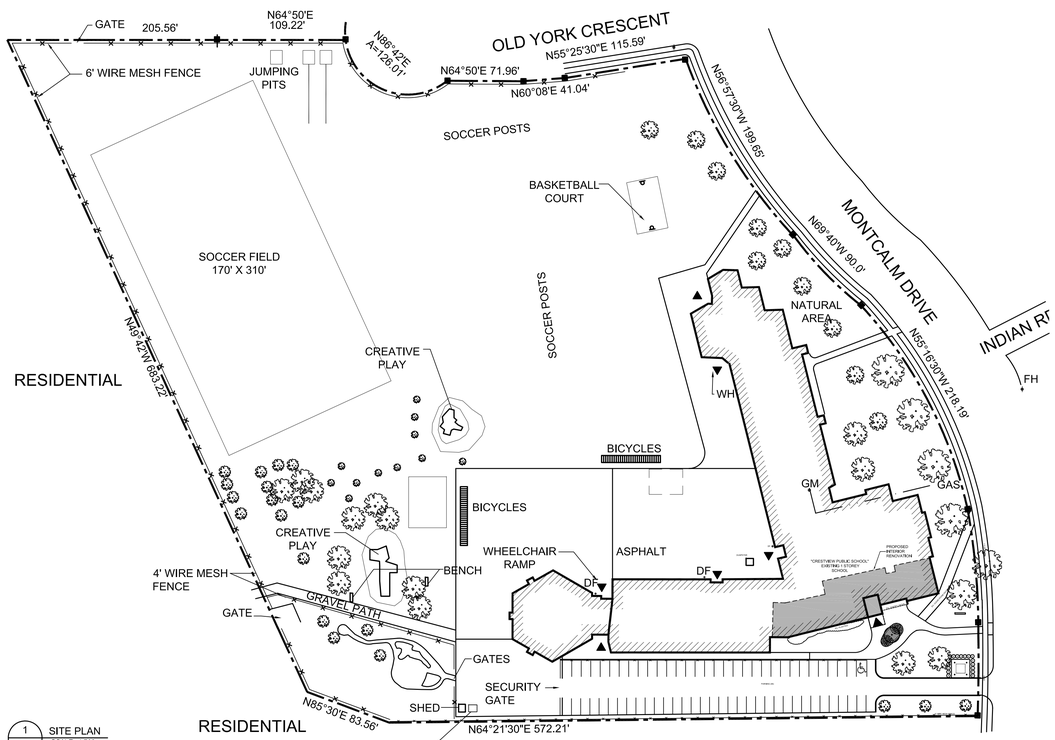
ELECTRICAL

E01 ELECTRICAL SITE PLAN
E02 ELECTRICAL KEYPLAN AND LEGEND
E03 ELECTRICAL SITE DETAILS
E04 ELECTRICAL DETAILS
E05 ELECTRICAL LIGHTING DETAILS
E06 BLOCK A & B LIGHTING DEMO PLAN
E07 BLOCK C LIGHTING DEMO PLAN
E08 BLOCK D LIGHTING RENOVATION PLAN
E09 BLOCK A & B POWER & SYSTEMS DEMO PLAN
E10 BLOCK C POWER & SYSTEMS DEMO PLAN
E11 BLOCK D POWER & SYSTEMS DEMO PLAN
E12 BLOCK A & B LIGHTING RENO PLAN
E13 BLOCK C LIGHTING RENO PLAN
E14 BLOCK D LIGHTING DEMO PLAN
E15 BLOCK A & B POWER & SYSTEMS RENO PLAN
E16 BLOCK C POWER & SYSTEMS RENO PLAN
E17 BLOCK D POWER & SYSTEMS RENO PLAN
E18 BLOCK A & B ROOF POWER PLAN
E19 BLOCK C ROOF POWER PLAN
E20 BLOCK D ROOF POWER PLAN
E21 ELECTRICAL ENLARGED PLANS
E22 ELECTRICAL DISTRIBUTION RISER
E23 ELECTRICAL PANEL SCHEDULES
E24 ELECTRICAL SCHEDULES

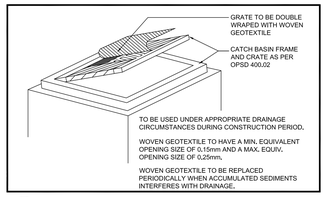
SET No.

PROJECT NUMBER

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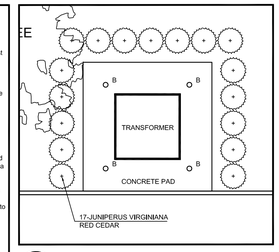
1 / SP1 SITE PLAN
SCALE 1:700



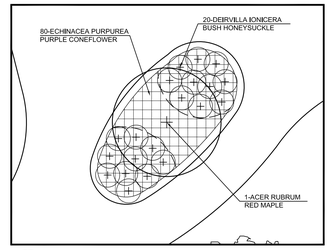
4 / SP1 CB SEDIMENT BARRIER @ PAVING
SCALE NTS

GENERAL NOTES

1. REFER TO SPECIFICATIONS FOR PHASING OF DEMOLITION AND CONSTRUCTION.
2. Parking spaces reserved for the physically handicapped must be identified by appropriate signage, installed at the applicant's expense, in accordance with the designated specifications of City Bylaws
3. The structural design of any retaining wall over 0.6 metre in height or any retaining wall located on a property line is to be shown on the Site Grading Plan for this project and is to be approved by a Structural Engineer.
4. Standard parking spaces shall be 2,8m x 5,5m min, hard surface area.
5. Accessible parking spaces shall be as noted on drawings, hard surface area with painted decal and signage per City's By-Law requirements.
6. All surface drainage shall be self contained and collected and discharged at a location to be approved prior to issuance of a building permit, Existing drainage pattern to be maintained.
7. The tops of any curbs bordering the driveways within the municipal boulevard will be flush with the municipal sidewalk and road curb.
8. Sedimentation control measures as per City's standards are to be implemented during construction.
9. All underground service materials and installations to be in accordance with the latest standards and codes.
10. All catchbasins manholes to have a minimum 0.3 sump and top as per municipal standards.
11. All storm sewer materials and construction methods must correspond to current municipal standards and specifications.
12. All excess excavated material will be removed from site.
13. The contractor is required to supply all labour, materials and equipment for the installation of required signage, temporary or permanent, as illustrated in the site plan drawings and in accordance with the Ontario Traffic Manual and City of Waterloo.
14. The contractor is responsible to replace any existing sod damaged during construction with new sod.
15. No construction vehicle parking is allowed in the school parking lot when the school is occupied.



5 / SP1 PROPOSED PLANTING PLAN - A
SCALE 1:100



6 / SP1 PROPOSED PLANTING PLAN - B
SCALE 1:100

PLANT LIST

SYMBOL	BOTANICAL NAME	QUANTITY	COMMON NAME	SIZE	CONDITION
Jv	Juniperus virginiana	17	Red Cedar	70 mm	B.B.
Ar	Acer Rubrum	1	Red Maple	70 mm	B.B.
dl	Diervilla lonicera	20	Bush Honeysuckle	1 gal.	potted
ep	Echinacea purpurea "Kim's Knee High"	80	Purple Coneflower	1 gal.	potted

LEGEND

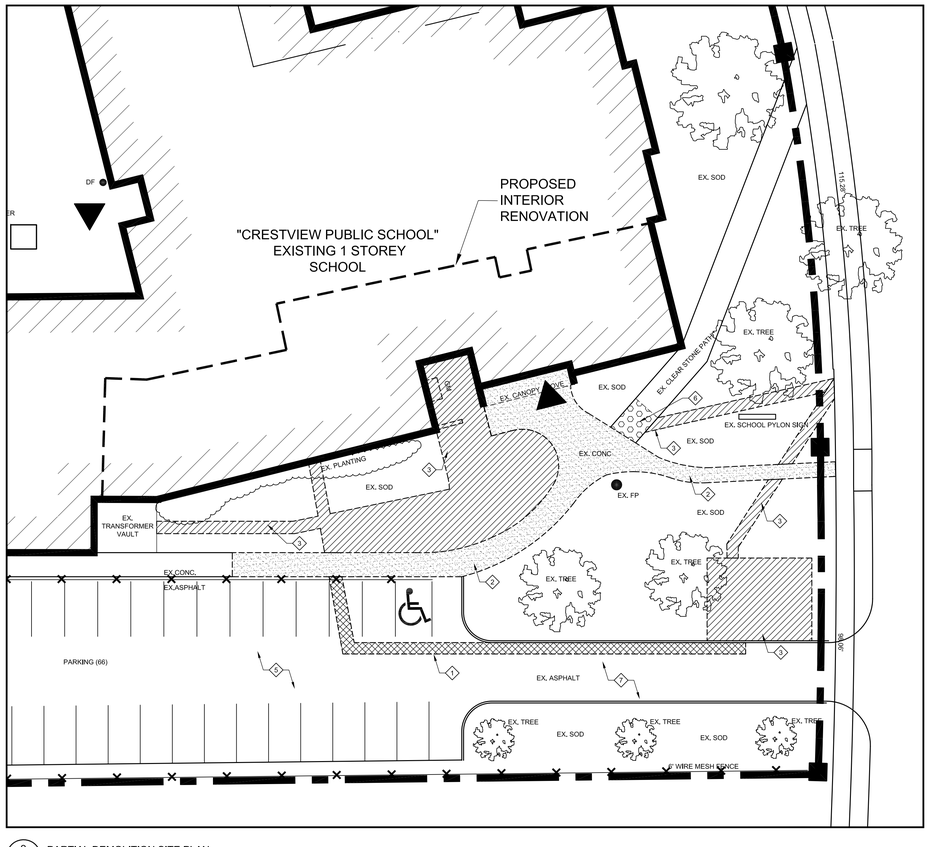
- EXISTING ASPHALT & SUB BASE TO BE REMOVED AND REINSTALLED
- EXISTING CLEAR STONE PATHWAY TO BE REMOVED AND REINSTALLED
- EXISTING LANDSCAPING, SOD ETC TO BE REMOVED
- EXISTING CONCRETE SIDEWALK & SUB BASE TO BE SAWCUT & REMOVED.
- NEW LANDSCAPING/SOD
- NEW PLANTING BED
- EX.FH EXISTING FIRE HYDRANT
- MH MANHOLE
- CB CATCH BASIN
- MAIN SCHOOL ENTRANCE
- SECONDARY SCHOOL ENTRANCE
- CHAIN LINK FENCE (HEIGHT AS INDICATED ON SP1)
- EX SIGN EXISTING SIGN
- B BOLLARD
- EX. LS EXISTING LIGHT STANDARD
- GM EXISTING GAS METER
- GW EXISTING GUY WIRE
- HP EXISTING HYDRO POLE
- FF=206.33 FINISHED FLOOR ELEVATION
- 206.55 EXISTING ELEVATION
- EDGE OF BUSH
- STANDARD PARKING SPACE 5500mm X 2800mm
- DENOTES EXISTING DECIDUOUS TREE TO REMAIN
- DENOTES EXISTING CONIFEROUS TREE TO REMAIN
- DENOTES EXISTING DECIDUOUS TREE TO BE REMOVED

SITE DEMOLITION NOTES:

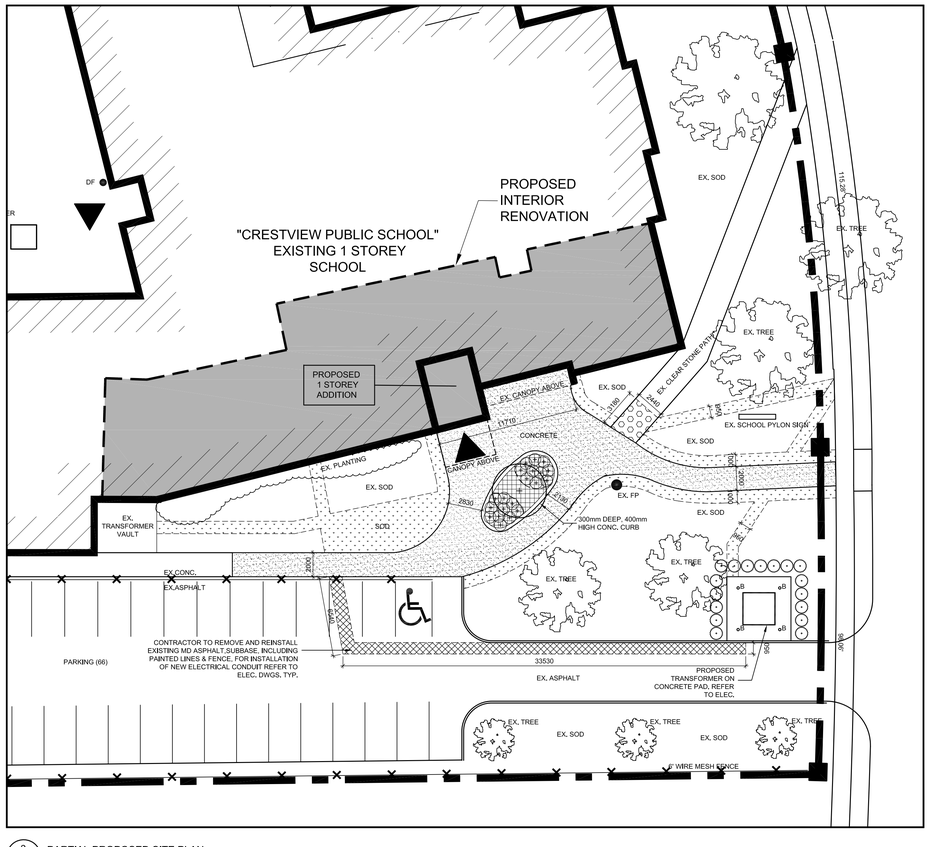
1. REMOVE EXISTING ASPHALT AND SUB-BASE TO EXTENT SHOWN IN HATCHED AREA FOR NEW DUCT BANK. REFER TO ELECTRICAL SITE PLAN & SPECIFICATIONS.
2. REMOVE EXISTING CONCRETE SIDEWALK AND SUB-BASE TO EXTENT SHOWN. CUT SIDEWALK AT EXISTING JOINT LINES. REFER TO PROPOSED SITE PLAN, REFER TO SPECIFICATIONS & AD DRAWINGS.
3. REMOVE EXISTING GRASS AND SUB-BASE AS REQUIRED TO EXTENT SHOWN IN HATCHED AREA. CUT BACK EXISTING LANDSCAPING AS REQUIRED. EXISTING LANDSCAPE TO REMAIN TO BE PROTECTED DURING CONSTRUCTION. ANY LANDSCAPING THAT IS DAMAGED IS TO BE REPLACED BY CONTRACTOR, REFER TO PROPOSED SITE PLAN. REFER TO SPECIFICATIONS & AD DRAWINGS.
4. REMOVE EXISTING CHAIN LINK FENCING, POSTS AND ASSOCIATED FOUNDATIONS AS REQUIRED FOR NEW DUCT BANK. PATCH AND MAKE GOOD EXISTING SURFACES TO SUIT PROPOSED LAYOUT.
5. PROTECT ALL CATCH BASINS IN CONSTRUCTION AREA TYP. PER DETAIL THIS PAGE.
6. REMOVE EXISTING CLEAR STONE PATH AND SUB-BASE TO EXTENT SHOWN FOR REMOVAL OF EXISTING DUCT BACK. REINSTATE PATHWAY UPON COMPLETION.
7. EX. ASPHALT TO REMAIN
8. REMOVE AND REPLACE EXISTING 1.2M CHAIN LINK FENCE AS REQUIRED FOR SITE WORK.

PLANTING NOTES

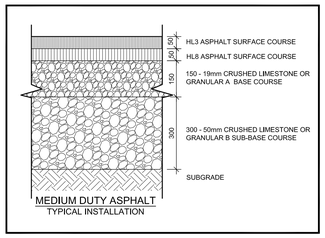
1. ALL PLANT MATERIAL IS TO MEET THE STANDARDS AS O UTLINED IN THE CANADIAN STANDARDS FOR NURSERY STOCK, CURRENT EDITION.
2. FOR ALL CONTRACTOR PURCHASED MATERIALS PLANT SIZES WILL BE AS MEASURED ON SITE, NURSERY WAYBILLS WILL NOT BE ACCEPTABLE FOR DETERMINATION OF PLANT SIZES.
3. PROTECT PLANT MATERIAL FROM FROST, EXCESSIVE HEAT, WIND AND SUN DURING TRANSPORTATION, ALL WILTED OR WIND DAMAGED PLANT MATERIAL WILL BE REJECTED.
4. CONTRACTOR TO LAYOUT ALL PLANT MATERIAL AS PER PLANTING PLANS PRIOR TO INSTALLATION FOR LANDSCAPE ARCHITECT REVIEW AND APPROVAL.
5. WARRANTY PERIOD FOR ALL PLANTING IS TWO FULL GROWTH SEASONS, WARRANTY REPLACEMENTS OF ALL PLANT MATERIAL WILL BE UNDERTAKEN BY THE CONTRACTOR AS REQUESTED BY THE LANDSCAPE ARCHITECT AT ANY TIME DURING THE WARRANTY PERIOD.
6. FOR BURLAPPED ROOT BALLS, CUT AWAY TOP ONE THIRD OF WRAPPING AND WIRE BASKET WITHOUT DAMAGING ROOT BALL. DO NOT PULL BURLAP OR ROPE FROM UNDER ROOT BALL. FOR POTTED PLANTS REMOVE ENTIRE CONTAINER.
7. BACKFILL SOIL IN 150mm LIFTS, TAMP EACH LIFT TO ELIMINATE AIR POCKETS, WHEN TWO THIRDS OF DEPTH OF PLANTING PIT HAS BEEN BACKFILLED, FILL REMAINING SPACE WITH WATER, AFTER WATER HAS PENETRATED INTO SOIL, BACKFILL TO FINISH GRADE.
8. PLANTS SHOWN IN GROUPS ARE TO BE PLANTED IN CONTINUOUS PLANT BEDS.
9. PLANT MATERIAL INSTALLED FOLLOWING LEAF DROP IN THE FALL WILL BE ACCEPTED AFTER THE START OF THE NEXT GROWING SEASON PROVIDED THAT ACCEPTANCE CONDITIONS ARE FULFILLED.
10. ANY PLANTING OR LANDSCAPING WORK THAT IS REJECTED AT THE FINAL INSPECTION WILL BE CORRECTED IN A TIMELY MANNER AT CONTRACTOR'S EXPENSE.
11. WATER TREES ONCE A WEEK FOR FIRST 4 WEEKS AND THEN SUFFICIENTLY THERE AFTER TO MAINTAIN OPTIMUM GROWING WITHIN THE FIRST 2 YEARS AFTER PLANTING. APPLY SUFFICIENT WATER PER APPLICATION TO OBTAIN MOISTURE PENETRATION OF 75-100MM. ENSURE ADEQUATE MOISTURE IN ROOT ZONE AT FREEZE-UP.
12. REJECTED PLANT MATERIAL MUST BE REMOVED FROM THE SITE WITHIN ONE WORKING DAY.
13. ALL TOPSOIL TO BE NEW. TOPSOIL TO BE FRIABLE, SOIL TEXTURE TO CONSIST OF 45% SAND, 35% SILT, AND 20% CLAY AND CONTAIN A MAXIMUM OF 5% ORGANIC MATTER, TOPSOIL MUST BE FREE FROM SUBSOIL, ROOTS, GRASS, WEEDS, TOXIC MATERIALS, STONES, FOREIGN OBJECTS AND WITH AN ACIDITY RANGE (PH) OF 5.5 TO 7.5.
14. SOIL MIXTURE FOR PLANTING TO BE BLENDED MIX OF FRIABLE SHREDDED TRIPLE MIX TOPSOIL CONSISTING OF 1/3 PEAT MOSS, 1/3 SANDY LOAM, AND 1/3 COMPOST.
15. CONTRACTOR TO CHECK QUANTITIES AND REPORT ANY DISCREPANCIES TO THE LANDSCAPE ARCHITECT IMMEDIATELY. PLANT QUANTITIES INDICATED ON THE PLAN SUPERCEDE THE TOTALS IN THE PLANT LIST.



2 / SP1 PARTIAL DEMOLITION SITE PLAN
SCALE 1:200



3 / SP1 PARTIAL PROPOSED SITE PLAN
SCALE 1:200



7 / SP1 PROPOSED PLANTING PLAN
SCALE 1:100

1	ISSUED FOR TENDER	25 03 27

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

ONTARIO ASSOCIATION OF ARCHITECTS
MAR. 27/25
PRISCILLA LADOUCEUR
LICENCE 6053
CERTIFICATE OF PRACTICE #4292

CRESTVIEW OFFICE RENOVATION & HVAC UPGRADE

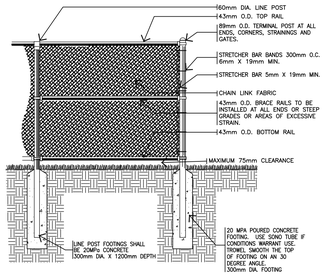
153 Montcalm Drive, Kitchener, ON, N2B 2R6

Waterloo Region District School Board

KEYPLAN, DEMO & PROPOSED SITE PLAN, PLANTING PLAN & DETAILS

HOSSACK & ASSOCIATES ARCHITECTS
4-2150 DUNWIN DRIVE
MISSISSAUGA, ONTARIO L5L 5M8
Tel (905) 607-6264 Fax (905) 607-6290

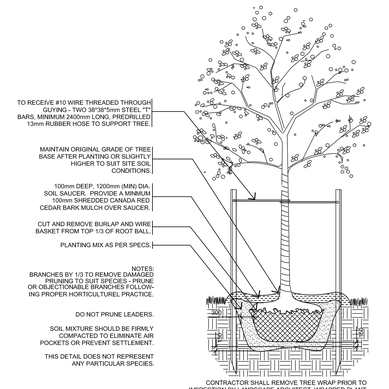
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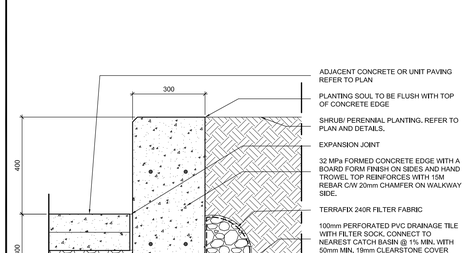
1. ALL MATERIAL AND INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF OPSS 541.
2. ALL COMPONENTS TO BE BLACK VINYL COATED OR GLOSS ENAMEL BY POWDER COAT APPLICATION. PRIOR TO COATING, ALL SURFACES SHALL BE CHEMICALLY CLEANED AND TREATED WITH PARKER BONDERITE AND CHLOROTHENE SOLVENT OR APPROVED EQUALS. POWDER COATING MUST BE A POLYESTER 2000 SERIES APPLIED IN A THICKNESS OF 4–5 MILS BY ELECTROSTATIC COAT AND OVEN CURED TO A SMOOTH EVEN SURFACE.
3. ALL FENCE POSTS TO BE SCHEDULE 40 PIPE.
4. PLASTIC COMPONENTENTS ARE NOT ACCEPTABLE.
5. CHAINLINK FABRIC SHALL BE 50mm WOVEN MESH (HEIGHT AS PER PLAN) OF 9 GAUGE BLACK VINYL COATED WIRE FASTENED TO TOP RAIL BRACE RAIL LINE POST STRETCHER BAR AND BOTTOM RAIL WITH 9 GA. WIRE AT 460mm O.C.

1.2/1.8m HIGH BLACK VINYL CHAINLINK FENCE

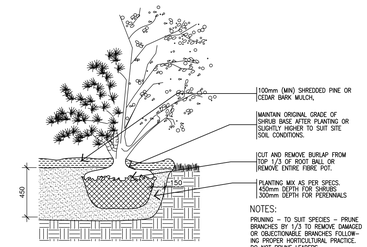


CONTRACTOR SHALL REMOVE TREE WRAP PRIOR TO INSPECTION BY LANDSCAPE ARCHITECT. WRAPPED PLANT MATERIAL WILL NOT BE INSPECTED/APPROVED.

DECIDUOUS TREE



RAISED CONCRETE EDGE



NOTES:

PRUNING – TO SUIT SPECIES – PRUNE BRANCHES BY 1/3 TO REMOVE DAMAGED OR OBJECTIONABLE BRANCHES FOLLOW-ING PROPER HORTICULTURAL PRACTICE. DO NOT PRUNE LEADERS.

CONIFEROUS PLANT MATERIAL SHOULD NOT BE PRUNED EXCEPTS FOR DEAD OR DAMAGED BRANCHES. MAINTAIN NORMAL SHAPE OF PLANTS. DO NOT CUT LEADERS.

FOR BARE ROOT SET PLANT AT ORIGINAL DEPTH OR SLIGHTLY HIGHER AND SPREAD OUT ROOTS, GENTLY BACK FILL WITH SOIL MIX IN LAYERS, WORKING SOIL BETWEEN ROOTS. FIRM SOIL, WATER WELL UPON COMPLETION.

PLANT SIZES:
HEIGHT: SHALL BE DETERMINED FROM THE TOP OF POT TO THE TOP OF THE MAIN BODY
SPREAD SHALL BE DETERMINED FROM EXTERIOR BRANCH TIPS ACROSS THE MAIN BODY OF THE SHRUB

THIS DETAIL DOES NOT REPRESENT ANY PARTICULAR SPECIES.

SOIL MIXTURE SHOULD BE FIRMLY COMPACTED TO ELIMINATE AIR POCKETS AND TO PREVENT SETTLEMENT.

PLANT BEDS MUST BE EXCAVATED FULLY TO A DEPTH OF 450mm AND FILLED WITH PLANTING MIX AS SPECIFIED. INDIVIDUAL PLANTING PITS WILL NOT BE ACCEPTED.

DECIDUOUS/CONIFEROUS SHRUB

1	ISSUED FOR TENDER	25/03/27

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

ONTARIO ASSOCIATION OF ARCHITECTS
MAR. 27/25
PRISCILLA LADOUCEUR
LICENCE 6553

CERTIFICATE OF PRACTICE #4292

CRESTVIEW OFFICE RENOVATION & HVAC UPGRADE

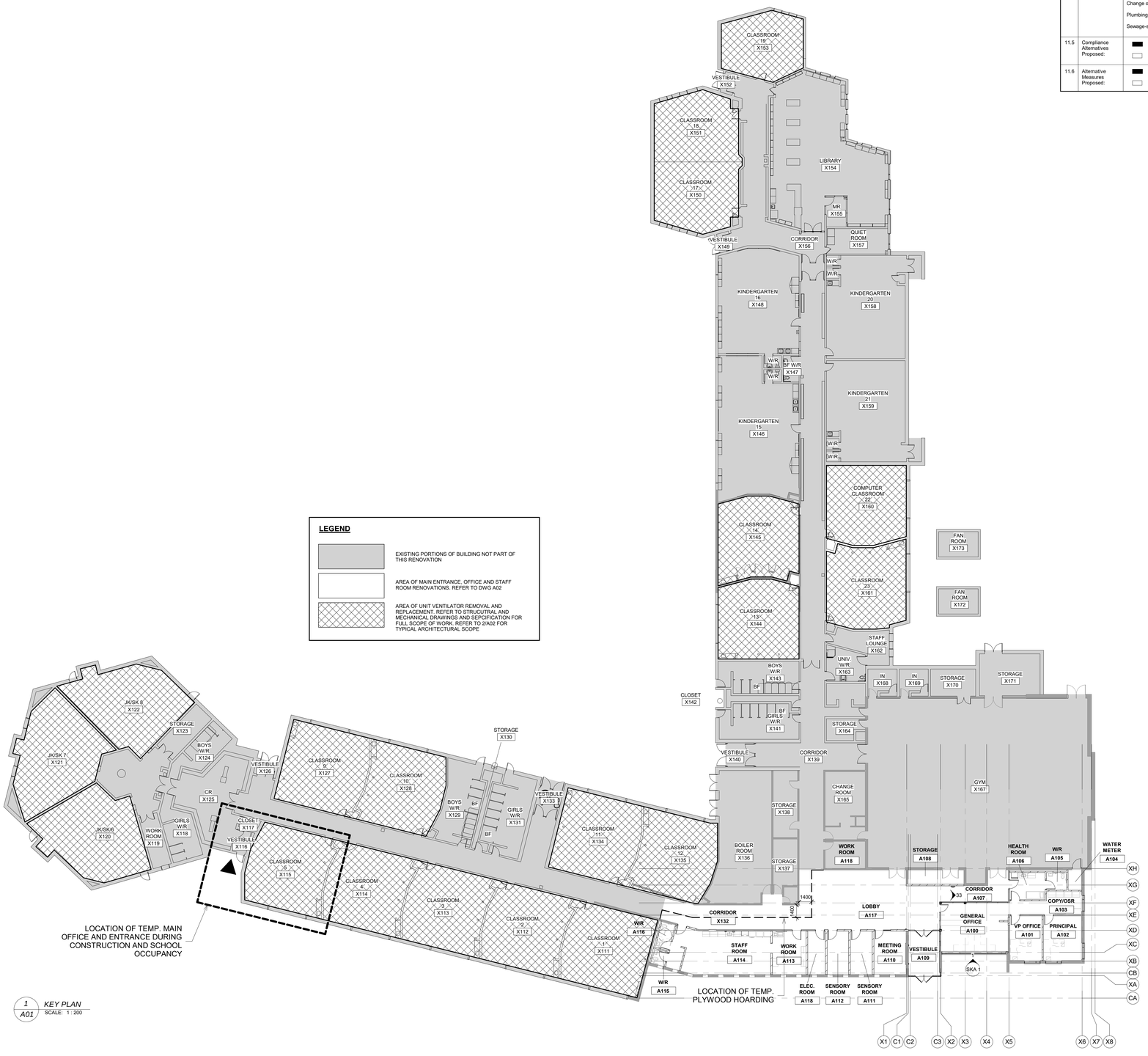
153 Montcalm Drive, Kitchener, ON, N2B 2R6

Waterloo Region District School Board

SITE PLAN DETAILS

HOSSACK & ASSOCIATES ARCHITECTS
4-2150 DUNWIN DRIVE
MISSISSAUGA, ONTARIO L5L 5M8
Tel (905) 607-8294 Fax (905) 607-8296

SCALE: As Indicated	PROJECT: 24133
DATE: March 2025	
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1 / A01 KEY PLAN
SCALE: 1 : 200

LEGEND

- EXISTING PORTIONS OF BUILDING NOT PART OF THIS RENOVATION
- AREA OF MAIN ENTRANCE, OFFICE AND STAFF ROOM RENOVATIONS. REFER TO DWG A02
- AREA OF UNIT VENTILATOR REMOVAL AND REPLACEMENT. REFER TO STRUCUTRAL AND MECHANICAL DRAWINGS AND SEPCIFICATION FOR FULL SCOPE OF WORK. REFER TO 2/A02 FOR TYPICAL ARCHITECTURAL SCOPE

OBC DATA MATRIX - PART 11

Item		HILLSIDE PUBLIC SCHOOL, 11 Chopin Drive		OBC Ref.
11.1	Existing building classification:	Describe Existing Use: ELEMENTARY SCHOOL (NOT SPRINKLERED) Construction Index: 5 - Non-combustible construction Hazard Index: 6 - Large Building - A2 Occupancy ■ Not applicable (no change of major occupancy)		11.2.1 T 11.2.1.1A T 11.2.1.1B to N
11.2	Alteration to Existing Building is:	Basic Renovation: ■ Extensive Renovation: □		11.3.3.1 11.3.3.2
11.3	Reduction in Performance Level:	Structural: ■ No □ Yes By increase in occupant load: ■ No □ Yes By change of major occupancy: ■ No □ Yes Plumbing: ■ No □ Yes Sewage-system: ■ No □ Yes		11.4.2 11.4.2.1 11.4.2.2 11.4.2.3 11.4.2.4 11.4.2.5
11.4	Compensating Construction:	Structural: ■ No □ Yes Increase in occupant load: ■ No □ Yes Change of major occupancy: ■ No □ Yes Plumbing: ■ No □ Yes Sewage-system: ■ No □ Yes		11.4.2 11.4.2.1 11.4.2.2 11.4.2.3 11.4.2.4 11.4.2.5
11.5	Compliance Alternatives Proposed:	■ No (not required) □ Yes (give number(s))		11.5.1
11.6	Alternative Measures Proposed:	■ No □ Yes (explain)		11.5.2

TABLE B - FIRE RESISTANCE RATINGS FOR REINFORCED PRESTRESSED CONCRETE FLOORS AND ROOF SLABS (PER OBC 2006 SB-2 -TABLE 2.2.1.A)

ACTUAL EQUIVALENT THICKNESS (mm)	SLAB DEPTH	REQ. EQ.T (mm) TYPE 'N' CONC	FIRE RESIST. RATING
136	250mm	87	1 HR

TABLE A - FIRE RESISTANCE RATINGS FOR CONCRETE BLOCK PARTITIONS (PER OBC 2012 SB-2 -TABLE 2.1.1)

ACTUAL EQUIVALENT THICKNESS (mm)	CONCRETE BLOCK OPTIONS	REQ. EQ.T (mm) LWC	NWC	FIRE RESIST. RATING
106	190mm HOLLOW NORM. WEIGHT	66	73	1 HR
81	140mm HOLLOW NORM. WEIGHT			
66	140mm HOLLOW LIGHT WEIGHT			
74	90mm 75% SOLID NORM. WEIGHT			

1	PROJECT DESCRIPTION: 1 STOREY PUBLIC SCHOOL	□ NEW ■ ADDITION ■ ALTERATION □ CHANGE OF USE	■ PART 3 ■ PART 11
1a	PROJECT NAME & ADDRESS: CRESTVIEW PUBLIC SCHOOL, 153 MONTCALM DR., KITCHENER, ON		
2	MAJOR OCCUPANCY(S): GROUP A DIVISION 2		
3	BUILDING AREA (SQ.M.): EXIST. 4,659 NEW 19 TOTAL 4,678		
4	GROSS AREA (SQ.M.): EXIST. 4,659 NEW 19 TOTAL 4,678		
5	NO. OF STOREYS ABOVE GRADE: 1 BELOW GRADE: 0		
6	NUMBER OF STREETS/ACCESS ROUTES: 2		
7	BUILDING CLASSIFICATION: 3.2.2.24 Group A, Division 2 - NON COMFORMING		
8	SPRINKLER SYSTEM PROPOSED: □ ENTIRE BUILDING □ BASEMENT ONLY □ IN LIEU OF ROOF RATING ■ NOT REQUIRED		
9	STANDPIPE REQUIRED:	□ YES	■ NO
10	FIRE ALARM REQUIRED:	■ YES	□ NO
11	WATER SERVICE/SUPPLY IS ADEQUATE:	■ YES	□ NO
12	HIGH BUILDING:	□ YES	■ NO
13	PERMITTED CONSTRUCTION: □ COMBUSTIBLE ■ NON COMBUSTIBLE □ BOTH ACTUAL CONSTRUCTION: □ COMBUSTIBLE ■ NON COMBUSTIBLE □ BOTH		
14	MEZZANINE(S) AREA (SQ.M.): N/A		
15	OCCUPANT LOAD BASED ON □ sq.m./PERSON ■ DESIGN OF BUILDING BASEMENT OCCUPANCY N/A LOAD N/A PERSONS 1ST FLOOR OCCUPANCY A2 LOAD ___ PERSONS 2ND FLOOR OCCUPANCY N/A LOAD ___ PERSONS		
16	BARRIER-FREE DESIGN:	■ YES	□ NO
17	HAZARDOUS SUBSTANCES:	□ YES	■ NO

18 REQUIRED FIRE RESISTANCE RATING (FRR)

	HORIZONTAL ASSEMBLIES FRR (HOURS)	LISTED DESIGN NO. OR DESCRIPTION (SG-2)
FLOOR(S)	1 HOURS	N/A
ROOF	0 HOURS	N/A
MEZZANINE	N/A HOURS	N/A
FRR OF SUPPORTING MEMBERS		**LISTED DESIGN NO. OR DESCRIPTION (SG-2)**
FLOOR(S)	1 HOURS	N/A
ROOF	0 HOURS	N/A
MEZZANINE	N/A HOURS	N/A

19 SPATIAL SEPARATION - CONSTRUCTION OF EXTERIOR WALLS (NON-COMBUSTIBLE)

WALL	AREA OF EBF (sq.m.)	L.D. (m)	L/H OR H/L	PERMITTED MAX. % OF OPENINGS	PROPOSED % OF OPENINGS
NORTH	N/A	N/A	N/A	N/A	N/A
SOUTH	N/A	N/A	N/A	N/A	N/A
EAST	N/A	N/A	N/A	N/A	N/A
WEST	N/A	N/A	N/A	N/A	N/A

20 OTHER - DESCRIBE - AREA OF RENOVATION IS 440 SQ.M.

SYMBOLS AND REFERENCE BUBBLE LEGEND

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

ROOF PENETRATIONS

REFER TO MECH., ELEC., STRUCTURAL DRAWINGS FOR NEW ROOF PENETRATIONS. G.C. TO SCRAPE BACK MIN. 400mm OF EXISTING ROOF FOR INSTALLATION AND TIES INTO EXISTING MEMBRANE AND INSULATION. COORDINATE WITH DIV. 15 & 16 & ROOFING DETAILS. PROVIDE PRESSURE TREATED WOOD BLOCKING AND CANT STRIP AT EDGES OF PENETRATION FROM NEW PENETRATIONS. COMPLETE WITH TRANSITION FLASHING MEMBRANES AND PREFIN. METAL FLASHING, AS REQUIRED FOR PENETRATIONS.

ABBREVIATION LEGEND

A	ACTIVE LEAF
AFF	ABOVE FINISHED FLOOR
BD	BOARD
B/F	BARRIER FREE
BFP	BARRIER FREE PUSH BUTTON
BFPL	BARRIER FREE PUSH BTN BUTTON LOCK
BFS	BOTTLE FILLER STATION
BH	BREAK-AWAY HOOK
BL	BARRIER FREE LOCKER
BV	BRICK VENT
CJ	CONTROL JOINT
CH	CABINET HEATER (RECESSED)
CHSM	CABINET HEATER (SURFACE MTD)
CHSR	CABINET HEATER (SEMI-RECESSED)
CHT	CHANGE TABLE STATION REFER TO SPEC
CONT.	CONTINUOUS
CR+S	COAT RACK AND SHELF. REFER TO SPEC
CS	CONVENIENCE SHELF
C/W	COMPLETE WITH
CWT	CERAMIC WALL TILE
DF.	DRINKING FOUNTAIN
D/W	DISHWASHER
EM	ELECTROMAGNETIC HOLD OPEN DEVICE
EP	ELECTRICAL PANEL, REF. ELEC. DWGS.
EPC	EMERGENCY PULL CORD
FB	FIRE BLANKET
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FD	FLOOR DRAIN
GALV	GALVANIZED
GYP	GYPSUM BOARD
GB	GRAB BAR
GBL	GRAB BAR "L" SHAPE
GBF	GRAB BAR "FOLDING"
GM	GAS METER
HB	HOSE BIB
HD	HAND DRYER
HDs	HAND DRYER WITH SHROUD
HFS	HORIZONTAL FIRESTOP
HORZ	HORIZONTAL
HSS	HOLLOW STRUCTURAL STEEL
HWT	HOT WATER TANK
JS	JANITORIAL SHELF
LF	LIGHT FIXTURE
M	MIRROR
ML	MIRROR LONG
MCP	MODULAR CONTROL PANEL
MR	METAL RACKING
MS	MOP SINK
NIC	NOT IN CONTRACT
NFHB	NON FREEZE HOSE BIB. REF. DIV 15
PAS	PUBLIC ANNOUNCEMENT SYSTEM (NIC)
PB	PROGRAM BELL
PTD	PAPER TOWEL DISPENSER
PTW	PAPER TOWEL + WASTE RECEPTACLE
RD	ROOF DRAIN
RF	REFRIGERATOR
RM	REMOVABLE HARDWARE MULLION
RS	ROLLER SHADE. REFER TO SPECS
RWL	RAIN WATER LEADER
SD	SOAP DISPENSER
SN	SANITARY NAPKIN DISPOSAL
SND	SANITARY NAPKIN DISPENSER
SR+C	SHOWER ROD + CURTAIN
SWR	SEMI-RECESSED WASTE RECEPTACLE
TEC	TECTUM ACOUSTIC PANELS
TB	TACKBOARD
TD	TOILET PAPER DISPENSER
TM	TILT MIRROR
VFS	VERTICAL FIRESTOP
WB	WHITEBOARD
W/D	WASHER/ DRYER NIC
WM	WIREMOLD
W/R	WASHROOM

NO.	DESCRIPTION	DATE
1	ISSUE FOR TENDER	03/31/25

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

ONTARIO ASSOCIATION OF ARCHITECTS
MAR. 27/25
PRISCILLA LADOUCEUR
LICENCE 6053
CERTIFICATE OF PRACTICE #4292

CRESTVIEW OFFICE RENOVATION & HVAC UPGRADE

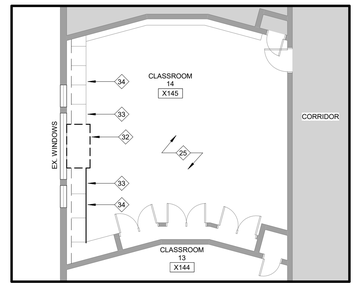
153 Montcalm Drive, Kitchener, ON, N2B 2R6

Waterloo Region District School Board

KEY PLAN, FIRE SEPARATION & OBC MATRIX

HOSSACK & ASSOCIATES ARCHITECTS
4-2155 DUNWIN DRIVE, MISSISSAUGA, ONTARIO L5L 5M8
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SCALE	As indicated
DATE	250331
DRAWN	TC/JK
CHECKED	PL
PRINT DATE	3/31/2025 12:10:07 PM
REVIT FILE	T:\2018\18103\02\Revit.RVT
PROJECT	24133
DRAWING	A01



2 / A02 *PARTIAL GROUND FLOOR - CLASSROOM RENO TYP.*
SCALE: 1 : 100

GENERAL DEMOLITION NOTES
to be followed for Demolition Floor Plans and Reflected Ceiling Plans

1. REMOVE ANY LEFTOVER EXISTING MOUNTING HARDWARE, FITTINGS ETC. ON WALLS DUE, BUT NOT LIMITED TO BRACKETS, SHELVING AND WINDOW COVERINGS BEING REMOVED AND NOT NOTED FOR RE-INSTALLATION IN AREA OF WORK. PATCH AND MAKE GOOD HOLES IN WALL FROM FITMENT REMOVAL AS REQUIRED FOR NEW FINISHES.
2. PATCH AND MAKE GOOD ANY MINOR HOLES DUE TO HARDWARE IN EXISTING WALLS TO PREPARE FOR NEW FINISHES.
3. OWNER TO REMOVE ALL PLAQUES, MIRRORS AND ARTWORK PRIOR TO DEMOLITION. PATCH AND MAKE GOOD ANY MINOR HOLES FROM REMOVALS IN EXISTING WALLS TO PREPARE FOR NEW FINISHES.
4. ALL PERIMETER WALLS IN AREA OF WORK TO REMAIN SHALL RECEIVE NEW PAINT FINISH. REFER TO ROOM FINISH SCHEDULE.
5. FOLLOWING REMOVALS OF FLOORING, ENSURE PREPARATION FOR NEW SURFACES INCLUDES PREPARATION OF REQUIRED, INCLUDING GRINDING, PATCHING AND LEVELING TO SUIT NEW FLOORING DEPTHS AND FLUSH TRANSITIONS. ALSO REFER TO SPECIFICATION AND FINISH SCHEDULE .
6. WHERE APPLICABLE LEVEL ALL EXISTING FLOORS AND CONNECTIONS BETWEEN NEW AND EXISTING FLOORS TO AS REQUIRED TO RECEIVE NEW FLOOR FINISHES. FEATHER NEW CONCRETE SLABS FOR TRANSITION AT EXISTING WITH REQUIRED FINISHES. INSTALL REQUIRED TRANSITION_PIECES BETWEEN VARIOUS FLOOR FINISHES SUITABLE FOR CONDITIONS AND ACCEPTABLE TO THE OWNER. MATCH EXISTING WHERE NOTED. REFER TO ROOM FINISH SCHEDULE FOR REQUIRED FLOOR FINISHES AND LOCATIONS.
7. COORDINATE AND PREPARE FOR NEW WORK INCLUDING REMOVALS, CUTTING, PREPARATION ETC. WHETHER ITEMS ARE SHOWN ON DEMOLITION PLAN OR NOT. INCLUDE ALL REQUIREMENTS FOR DEMOLITION AND PREPARATION TO SUIT PROPOSED FLOOR PLANS. ALL NECESSARY DISCONNECTS AND ALTERATIONS TO EXISTING MECHANICAL AND ELECTRICAL SYSTEMS SHALL BE INCLUDED. PATCH AND MAKE GOOD ALL EXISTING FINISHES TO REMAIN. REFER TO SCHEDULES AND SPECIFICATIONS FOR OTHER NECESSARY REQUIREMENTS.
8. REFER TO STRUCTURAL DRAWINGS FOR TYPICAL FLOOR INFILL DETAILS
9. PATCH AND MAKE GOOD ANY EXISTING HOLES DUE TO MECHANICAL / STRUCTURAL / ELECTRICAL PENETRATIONS INCLUDING MATCHING NON-RATED FIRE SEPARATIONS AT ALL REQUIRED WALLS AND BETWEEN FLOORS
10. RENOVATED AREAS TO BE THOROUGHLY CLEANED TO OWNER SATISFACTION, ALL OF CONSTRUCTION DUST, DEBRIS AND MATERIALS.
11. ALL DIMENSIONS IN AREA OF WORK TO BE FIELD VERIFIED BY G.C. PRIOR TO START OF CONSTRUCTION.

WALL & FLOOR HATCH LEGEND

- EXISTING PORTIONS OF BUILDING NOT PART OF THIS RENOVATION
- EXISTING WALLS TO REMAIN
- EXISTING WALLS TO BE DEMOLISHED. REFER TO DEMOLITION PLANS AND NOTES
- EXISTING TERRAZZO TO BE REMOVED DOWN TO SLAB
- EXISTING FLOORING TO BE REMOVED, INCLUDING CARPET, VINYL AND PORCELAIN / CERAMIC TILE AND CONCRETE SLAB FOR NEW FLOOR FINISH.
- EXISTING FLOORING & CONCRETE SLAB ON GRADE AND SUB-BASE TO BE REMOVED FOR NEW PLUMBING



1 / A02 *PARTIAL GROUND FLOOR - DEMOLITION PLAN*
SCALE: 1 : 100

DEMOLITION NOTES

GENERAL CONTRACTOR TO FIELD VERIFY ALL EXISTING DIMENSIONS PRIOR TO CONSTRUCTION.

ALL REMOVAL/DEMOLITIONS TO BE COORDINATED WITH STRUCTUERAL, MECHANICAL, ELECTRICAL DRAWINGS PRIOR TO DEMOLITION. FOR ADDITIONAL DEMOLITION DOCUMENTS AND DETAILS SEE DRAWINGS AND SPEC.

OWNER WILL MOVE AND RELOCATE ALL EXISTING FUNITURE AND TEACHING TOOLS WITHIN SCOPE OF WORK PRIOR TO CONSTRUCTION.

GENERAL CONTRACTOR TO X-RAY ALL EXISTING CONCRETE FLOOR SLABS AS REQUIRED PRIOR TO ANY DEMOLITION. IF EXISTING WIRES, CONDUIT, ETC. ARE CUT DURING SLAB DEMOLITION, CONTRACTOR IS RESPONSIBLE TO RESTORE ALL DEVICES. SEE SPEC.

CONTRACTOR TO REPAIR AND MAKE GOOD ALL EXISTING BLOCK WALLS AND PAINT WITHIN CONSTRUCTION AREA (INCLUDING CORRIDORS AFFECTED BY RENOVATION) SEE SPEC.

ALL NOTED DIMENSIONS TO EXISITNG WALL ASSEMBLIES ARE +/- AND MAY VARY. CONTRACTOR TO FIELD VERIFY AS REQUIRED.

ALL AREAS OF WORK TO BE THOROUGHLY CLEANED TO OWNER SATISFACTION PER SPECIFICATIONS.

1. REMOVE EXISTING FLOORING (INCLUDING CARPET, VINYL AND PORCELAIN / CERAMIC TILE), BASE, AND ANY UNDER PAD/NAILING STRIPS. PATCH AND MAKE GOOD EXISTING SUBFLOOR TO ACCEPT NEW FLOORING TO SATISFACTION OF FLOORING SUBTRADE. PATCH AND MAKE GOOD EXISTING WALLS TO REMAIN FOR NEW FINISHES. REFER TO FINISH SCHEDULE.
2. REMOVE AND DISPOSE OF EXISTING TOILET PARTITIONS IN ITS ENTIRETY.
3. CONTRACTOR TO DISCONNECT EXISTING SINKS AND TOILETS WHERE APPLICABLE (AND REMOVE ALL PLUMBING AS REQUIRED). REMOVE ACCESSORIES INCLUDING PAPER TOILET DISPENSER, SOAP DISPENSER. PATCH AND MAKE GOOD FLOOR AND WALL AS REQUIRED FOR NEW FINISHES..
4. REMOVE ALL EXISTING MILLWORK INCLUDING BUT NOT LIMITED TO UPPER AND LOWER CABINET , BOOKSHELVES, STORAGE CABINETS, MISC. ITEMS, ETC.
5. CONTRACTOR TO DEMOLISH EXISTING MILLWORK (UPPER AND LOWER), INCLUDING DISCONNECTING AND REMOVING ALL PLUMBING. PATCH AND MAKE GOOD EXISTING WALL AND FLOORS FOR NEW FINISH, REFER TO MECH. DWGS.
6. CONTRACTOR TO REMOVE EXISTING HOLLOW METAL/ WOOD FRAME AND DOOR IN ITS ENTIRETY.
7. DEMOLISH EXISTING TERRAZZO FLOORING AND/OR COVE BASE TO THE NEAREST JOINT DOWN TO CONCRETE SLAB. PREPARE SLAB FOR NEW FLOOR FINISH. PATCH AND MAKE GOOD EXISTING WALLS TO REMAIN FOR NEW FINISHES. REFER TO FINISH SCHEDULE.
8. DEMOLISH APPLICANCES INCLUDING FRIDGE, STOVE, ETC.
9. REMOVE EXISTING FLOORING (INCLUDING CARPET, VINYL AND PORCELAIN TILE), BASE AND ANY UNDER PAD/NAILING STRIPS. SAWCUT REINFORCED CONCRETE SLAB INCLUDING SUB-BASE AS REQUIRED FOR NEW PLUMBING LINE & CONNECTIONS. COORDINATE EXACT SLAB REMOVAL LOCATIONS WITH NEW PLUMBING LINE/CONNECTIONS WITH MECH. SERVICES AND DWGS. PREPARE SURFACE FOR NEW FINISHES. REFER TO ROOM FINISH SCHEDULE.
10. REMOVE EXISTING WALL AND COVE BASE (INCLUDING SCREEN & DOOR ASSEMBLY, FRAMES, GLAZING AND FINISHES WHERE APPLICABLE) FROM FINISHED FLOOR TO TOP OF WALL TO EXTENT SHOWN. REFER TO MECH. AND ELEC. DWGS. FOR ASSOCIATED REMOVAL. PATCH AND MAKE GOOD FLOOR AS REQUIRED FOR NEW FINISHES. PATCH AND MAKE GOOD ADJACENT WALLS TO REMAIN WHERE APPLICABLE FOR NEW FINISHES.
11. CAREFULLY REMOVE EXISTING WALL MOUNTED FIXTURES AND FITMENTS LISTED BUT LIMITED TO: TACKBOARDS, WHITE BOARDS, BRACKETS/FASTENERS, ROOM SIGNAGE, SHELVES, WALL MOUNTED ORGANIZERS THOUGHTOUT ROOM WHERE APPLICABLE. COMPLETELY REMOVE ALL BASE AND MISC HOOKS ON WALL UNLESS OTHERWISE NOTED. PATCH AND MAKE GOOD WALLS AS REQUIRED. GRIND SMOOTH WALL AND PATCH WHERE ADHESIVE REMAINS FROM REMOVAL, TO ACCEPT NEW FINISH TO SATISFACTION OF SUBTRADE.
12. CONTRACTOR TO PROTECT EXISTING BLOCK WALL TO REMAIN, IN AREA OF WORK. PREPARE FOR NEW PAINT FINISH.
13. CONTRACTOR TO CAREFULLY REMOVE EXISTING TERRAZZO FLOORING TO EXTENT SHOWN. PATCH AND MAKE GOOD FLOOR AS REQUIRED FOR NEW BLOCK WALL.
14. CONTRACTOR TO CAREFULLY REMOVE ALL ROLLER SHADE AND/OR WINDOW COVERINGS. PATCH AND MAKE GOOD WALL/WINDOW FRAME AS REQUIRED FOR NEW FINISH.
15. CUT WINDOW OPENING IN EXISTING EXTERIOR BRICK ON BLOCK WALL FOR NEW WINDOW ASSEMBLY (1400mm x 1200mm). PATCH AND MAKE GOOD ADJACENT WALLS. SALVAGE EXISTING BLOCK AND BRICK VENEER TO ENSURE TO ENOUGH HAS BEEN SAVED FOR INFILL AT NEW LINTEL. REFER TO STRUCTURAL. SALVAGE AND STORAGE EXISTING EXTERIOR BRICK. REMOVE ALTERNATE COURSES OF BRICK AT FRAME FOR TOOTHING IN OF BRICK INFILL. INFILL EXTERIOR WITH SALVAGE BRICK. PATCH AND MAKE GOOD WALL TO MATCH EXISTING AS REQUIRED INCL CONCRETE INFILL AT EXPOSED BLOCK WYTHE. GRIND DOWN AND SMOOTH EDGES OF CONCRETE BLOCK AT OPENING TO FORM BULLNOSE. PARGE SMOOTH.
16. REMOVE EXISTING DOOR ASSEMBLY INCLUDING FRAME. PATCH AND MAKE GOOD EXISTING WALL TO REMAIN AS REQUIRED FOR NEW WALL INFILL WHERE APPLICABLE. REFER TO DWGS FOR NEW WALL AND DOOR FINISH WHERE ADJACENT WALL IS TO REMAIN
17. REMOVE EXISTING TERRAZZO FLOORING. PATCH AND MAKE GOOD FLOOR AND WALL TO ACCEPT NEW BLOCK WALL.
18. REMOVE EXTERIOR MASONRY WALL INCLUDING WINDOW AND DOOR ASSEMBLY WHEN APPLICABLE. REFER TO STRUC. DWGS. REFER TO MECH. AND ELEC. DWGS FOR ASSOCIATED REMOVAL.
19. REMOVE BENCHES IN THEIR ENTIRETY. PATCH AND MAKE GOOD WALLS TO REMAIN AS REQUIRED FOR NEW FINISHES.
20. REMOVE EXISTING GAS METER CAGE. RELOCATE GAS METER. REFER TO MECH. DWGS FOR RELOCATION.
21. DEMOLISH KNEE WALL COMPLETELY. REFER TO STRUCTURAL AND MECH. DWGS FOR ASSOCIATED REMOVAL AS REQUIRED.
22. EXISTING BOTTLE FILLER DRINKING FOUNTAIN TO BE REMOVED AND HANDED OVER TO OWNER. REFER TO MECH. AND ELEC. DWGS FOR ASSOCIATED REMOVAL.
23. SAWCUT NEW OPENING IN EXISTING BLOCK WALL FOR NEW DOOR ASSEMBLY, LOCATION OF SAWCUTS PER DIMENSIONS IN PROPOSAL DWGS. REFER TO STRUC. DWGS. FOR REQUIRED LINTEL. REFER TO SCHEDULE FOR SIZE OF OPENING. REFER TO AD DWGS FOR DOOR JAMB DETAIL. PATCH AND MAKE GOOD WALLS AND FLOOR AS REQUIRED FOR NEW FINISHES. GRIND DOWN AND SMOOTH EDGES OF CONCRETE BLOCK AT OPENING TO FORM BULLNOSE. PARGE SMOOTH.
24. REMOVE EXISTING TERRAZZO FLOORING AND COVE BASE. PATCH AND MAKE GOOD FLOOR AS REQUIRED TO RECIEVE NEW WALL INFILL. REFER TO PROPOSED DWGS FOR WALL SIZE. REFER TO ROOM FINISH SCHEDULE.
25. CONTRACTOR TO PROTECT EXISTING FLOORING TO REMAIN IN AREA OF WORK. PATCH AND REPAIR AS REQUIRED IF DAMAGED DURING CONSTRUCTION.
26. EXISTING BRICK VENEER WALL TO REMAIN. EXISTING VENEER TO BE CLEANED WITH CLEANING AGENT. REFER TO SPECS.
27. REMOVE PAINT FROM DOOR. SAND AND PREP DOOR FOR NEW FINISH.
28. PROVIDE INTERIOR PAINTED PLYWOOD HOARDING/DUST PROTECTION. REFER TO SPECS.
29. SAWCUT AND REMOVE EXISTING TERRAZZO FLOORING AND REINFORCED CONCRETE SLAB INCLUSING SUB-BASE AS REQUIRED FOR NEW PLUMBING LINE & CONNECTIONS COORDINATE EXACT SLAB REMOVAL LOCATIONS WITH NEW PLUMBING LINE/CONNECTIONS WITH MECH. SERVICES AND DWGS. PREPARE SURFACE FOR NEW FINISHES. REFER TO ROOM SCHEDULE.
30. CAFULLY CUT TERRAZZO FLOOR AND COVE BASE TO THE NEAREST JOINT AND REMOVE DOWN TO CONCRETE SLAB. PREPARE SLAB FOR NEW TERRAZZO PATCHING AND/OR INFILL. REFER TO PROPOSED FLOOR PLAN.
31. REMOVE EXISTING RECESSED CHALKBOARD IN EXISTING BLOCK WALL.
32. CONTRACTOR TO CAREFULLY REMOVE EXISTING UNIT VENTILATOR. REFER TO MECHANICAL DRAWINGS.
33. CONTRACTOR TO CAREFULLY REMOVE EXISTING MILLWORK CABINETS AND STORE ON SITE, FOR ACCESS TO MECHANICAL CONNECTIONS. CONTRACTOR TO REINSTALL MILLWORK UPON COMPLETION OF MECHANICAL WORK.
34. CONTRACTOR TO PROTECT EXISTING MILLWORK TO REMAIN IN AREA OF WORK.
35. CONTRACTOR TO PARGE AND GROUND SMOOTH EXPOSED EXISTING BLOCK WALLS AT LOCATIONS OF REMOVED &/OR SAWCUT BLOCK. CONTRACTOR TO GRIND DOWN AND SMOOTH EDGES OF EXISTING BLOCK WALL AT OPENINGS TO FORM BULLNOSE. PARGE SMOOTH.
36. CONTRACTOR TO DEMOLISH ALL EXISTING WALL TILE. GRIND SMOOTH EXISTING WALL AND PREPARE FOR NEW FINISH.

ABBREVIATION LEGEND

A	ACTIVE LEAF
AFF	ABOVE FINISHED FLOOR
BD	BOARD
B/F	BARRIER FREE
BFP	BARRIER FREE PUSH BUTTON
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C/W	COMPLETE WITH
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DF	DRINKING FOUNTAIN
D/W	DISHWASHER
EM	ELECTROMAGNETIC HOLD OPEN DEVICE
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NO.	DESCRIPTION	DATE
1	ISSUE FOR TENDER	03/31/25

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MAR. 27/25
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CERTIFICATE OF PRACTICE #4292

CRESTVIEW OFFICE RENOVATION & HVAC UPGRADE

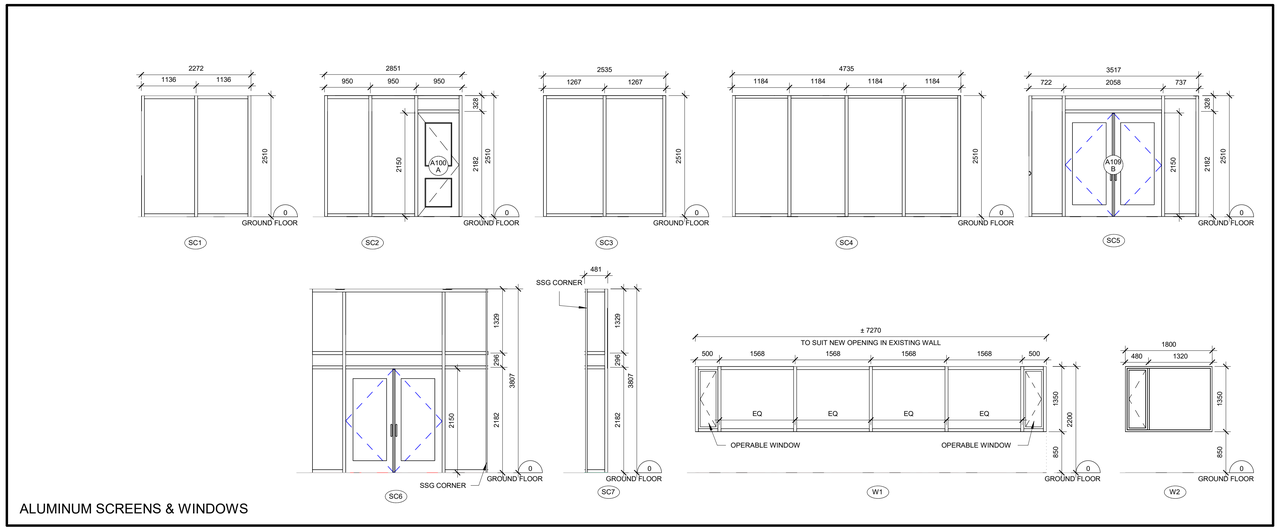
153 Montcalm Drive, Kitchener, ON, N2B 2R6

Waterloo Region District School Board

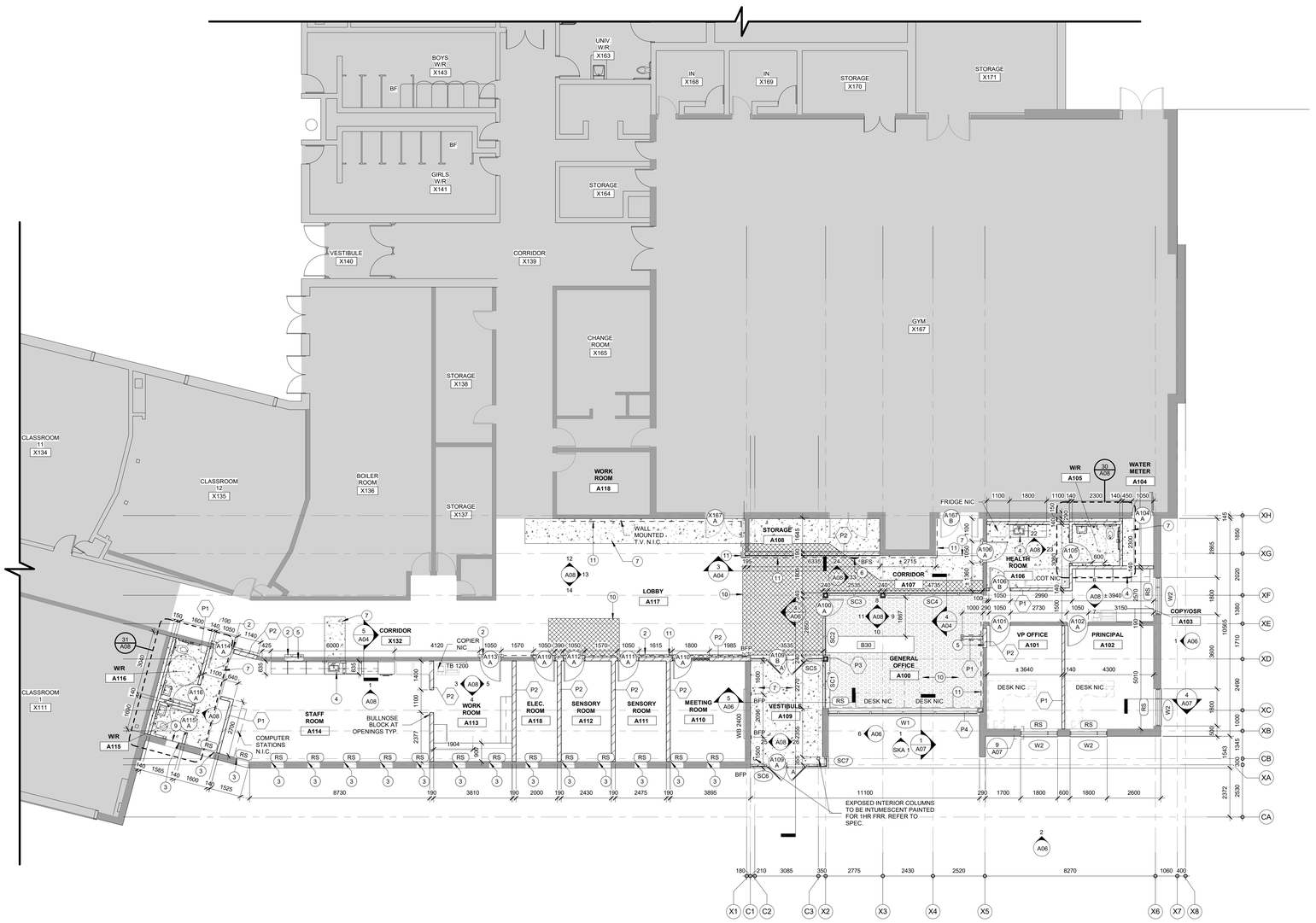
PARTIAL DEMOLITION FLOOR PLAN

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SCALE	As indicated
PROJECT	24133
DATE	250331
DRAWN	JK
DRAWING	A02
CHECKED	PL
PRINT DATE	3/31/2025 12:10:17 PM
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ALUMINUM SCREENS & WINDOWS



1 / A03 PARTIAL PROPOSED GROUND FLOOR PLAN
SCALE: 1 : 100

WALL & FLOOR HATCH LEGEND

- EXISTING PORTIONS OF BUILDING NOT PART OF THIS RENOVATION
- EXISTING WALLS TO REMAIN
- EXISTING WALLS TO BE DEMOLISHED. REFER TO DEMOLITION PLANS AND NOTES
- NEW TERRAZZO FLOORING & BASE. REFER TO ROOM FINISH SCHEDULE
- NEW CONCRETE SLAB INFILL C/W SUB-BASE AND NEW FLOOR FINISH. REF. STRUCT. DWGS. AND ROOM FINISH SCHEDULE
- NEW FLOOR LEVELLING AND NEW FLOOR FINISH. REFER TO ROOM FINISH SCHEDULE

GENERAL CONSTRUCTION NOTES

GENERAL CONTRACTOR TO FIELD VERIFY ALL EXISTING DIMENSIONS PRIOR TO CONSTRUCTION.

ALL REMOVAL/DEMOLITIONS TO BE COORDINATED WITH STRUCTUERAL, MECHANICAL, ELECTRICAL DRAWINGS PRIOR TO DEMOLITION. FOR ADDITIONAL DEMOLITION DOCUMENTS AND DETAILS SEE DRAWINGS AND SPEC.

OWNER WILL MOVE AND RELOCATE ALL EXISTING FUNITURE AND TEACHING TOOLS WITHIN SCOPE OF WORK PRIOR TO CONSTRUCTION.

GENERAL CONTRACTOR TO X-RAY ALL EXISTING CONCRETE FLOOR SLABS AS REQUIRED PRIOR TO ANY DEMOLITION. IF EXISTING WIRES, CONDUT, ETC. ARE CUT DURING SLAB DEMOLITION, CONTRACTOR IS RESPONSIBLE TO RESTORE ALL DEVICES. SEE SPEC.

CONTRACTOR TO REPAIR AND MAKE GOOD ALL EXISTING GYPSUM LAMINATED BLOCK WALLS AND PAINT WITHIN CONSTRUCTION AREA (INCLUDING CORRIDORS AFFECTED BY RENOVATION) SEE SPEC.

ALL NOTED DIMENSIONS TO EXISITNG WALL ASSEMBILIES ARE +/- AND MAY VARY. CONTRACTOR TO FIELD VERIFY AS REQUIRED.

ALL AREAS OF WORK TO BE THOROUGHLY CLEANED TO OWNER SATISFACTION PER SPECIFICATIONS.

1. NOT IN USE.
2. PATCH AND INFILL TERRAZZO FLOORING AND INSTALL NEW COVE BASE TO MATCH EXISTING AS REQUIRED.
3. PAINT EXISTING INTERIOR WINDOW TRIM. REFER TO ROOM FINISH SCHEDULE.
4. NEW MILLWORK LOWER & UPPER CABINETS. REFER TO TYPICAL DETAILS. CONTRACTOR TO CONFIRM DIMENSIONS AND LOCATION OF EXISTING PLUMBING CONNECTION ON SITE. PROVIDE NEW SILICONE JOINT BETWEEN COUNTERTOP AND BLOCK WALL. INSTALL NEW RUBBER BASE AT ALL LOWER CABINETS. REFER TO MECH. DRAWINGS FOR PLUMBING FIXTURES AND CONNECTIONS. REFER TO INTERIOR ELEVATIONS AND SPEC. FOR MILLWORK.
5. ENSURE SMOOTH TRANSITION BETWEEN NEW INFILL WALLS AND EXISTING WALLS. PAINT TO MATCH EXISTING.
6. NEW RECESSED BOTTLE FILLER. REFER TO MECH. DWGS.
7. NEW REINFORCED CONCRETE SLAB & COMPACTED SUB-BASE INFILL AND FLOOR FINISH. REFER TO ROOM FINISH SCHEDULE FOR FLOOR FINISH. SLAB TO BE DEPRESSED IN LOCATIONS OF TERRAZZO AND PORCELAIN TILE FLOORING TO ENSURE FINISH FLOOR IS FLUSH WITH ADJACENT.
8. PATCH CONCRETE FOUNDATION & SLAB FOR NEW OPENING. TOOTH IN SALVAGED VENEER AT NEW OPENING, AND INSTALL NEW METRIC MASONRY BLOCK ON INTERIOR. TIE IN NEW VAPOUR BARRIER WITH EXISTING. LAMINATE EXPOSED INTERIOR BLOCK WITH 16MM ABUSED RESISTANT GYPSUM. REPARE FOR PAINT FINISH TO MATCH ADJACENT.
9. NEW WINDOW FILM ON EXISTING WINDOW. REFER TO SPEC.
10. NEW CONCRETE FLOOR LEVELING AND FLOOR FINISH. REFER TO ROOM FINISH SCHEDULE FOR FLOOR FINISH. SLAB TO BE DEPRESSED IN LOCATIONS OF TERRAZZO AND PORCELAIN TILE FLOORING TO ENSURE FINISH FLOOR IS FLUSH WITH ADJACENT.
11. EXTENT OF NEW FLOOR TO CEILING WALL TILE. REFER TO INTERIOR ELEVATIONS.

WALL TYPE LEGEND

- EXISTING WALLS TO REMAIN
- P1 — 140mm CONCRETE BLOCK WALL
- P2 — 190mm CONCRETE BLOCK WALL
- P3 — DOUBLE LAYER OF 16mm TYPE X GYPSUM BOARD ON 24.5 METAL FURRING.
- P4 — 90mm MASONRY VENEER, 25mm AIR SPACE, 50mm RIGID INSULATION, AIR/VAPOUR BARRIER (TIED IN WITH ADJACENT), 190mm METRIC CONCRETE BLOCK.

NOTE: ALL NEW WALLS TO UNDERSIDE OF DECK UNLESS SPECIFIED ON DRAWINGS.

ABBREVIATION LEGEND

A	ACTIVE LEAF
AFF	ABOVE FINISHED FLOOR
BD	BOARD
B/F	BARRIER FREE
BFP	BARRIER FREE PUSH BUTTON
BFPL	BARRIER FREE PUSH BUTTON LOCK
BFS	BOTTLE FILLER STATION
BH	BREAK-AWAY HOOK
BL	BARRIER FREE LOCKER
BV	BRICK VENT
CJ	CONTROL JOINT
CH	CABINET HEATER (RECESSED)
CHSM	CABINET HEATER (SURFACE MTD)
CHSR	CABINET HEATER (SEMI-RECESSED)
CHT	CHANGE TABLE STATION REFER TO SPEC
CONT.	CONTINUOUS
CR+S	COAT RACK AND SHELF. REFER TO SPEC
CS	CONVENIENCE SHELF
C/W	COMPLETE WITH
CWT	CERAMIC WALL TILE
DF	DRINKING FOUNTAIN
D/W	DISHWASHER
EM	ELECTROMAGNETIC HOLD OPEN DEVICE
EP	ELECTRICAL PANEL. REF. ELEC. DWGS.
EPC	EMERGENCY PULL CORD
FB	FIRE BLANKET
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FD	FLOOR DRAIN
GALV	GALVANIZED
GYP	GYPSUM BOARD
GB	GRAB BAR
GBL	GRAB BAR "L" SHAPE
GBF	GRAB BAR "FOLDING"
GM	GAS METER
HB	HOSE BIB
HD	HAND DRYER
HDs	HAND DRYER WITH SHROUD
HFS	HORIZONTAL FIRESTOP
HORZ	HORIZONTAL
HSS	HOLLOW STRUCTURAL STEEL
HWT	HOT WATER TANK
JS	JANITORIAL SHELF
LF	LIGHT FIXTURE
M	MIRROR
ML	MIRROR LONG
MCP	MODULAR CONTROL PANEL
MR	METAL RACKING
MS	MOP SINK
NIC	NOT IN CONTRACT
NFHB	NON FREEZE HOSE BIB. REF. DIV 15
PAS	PUBLIC ANNOUNCEMENT SYSTEM (NIC)
PB	PROGRAM BELL
PTD	PAPER TOWEL DISPENSER
PTW	PAPER TOWEL + WASTE RECEPTACLE
RD	ROOF DRAIN
RF	REFRIGERATOR
RM	REMOVABLE HARDWARE MULLION
RS	ROLLER SHADE. REFER TO SPECS
RWL	RAIN WATER LEADER
SD	SOAP DISPENSER
SN	SANITARY NAPKIN DISPOSAL
SND	SANITARY NAPKIN DISPENSER
SR+C	SHOWER ROD + CURTAIN
SWR	SEMI-RECESSED WASTE RECEPTACLE
TEC	TECTUM ACOUSTIC PANELS
TB	TACKBOARD
TD	TOILET PAPER DISPENSER
TM	TILT MIRROR
VFS	VERTICAL FIRESTOP
WB	WHITEBOARD
W/D	WASHER/ DRYER NIC
WM	WIREMOLD
W/R	WASHROOM

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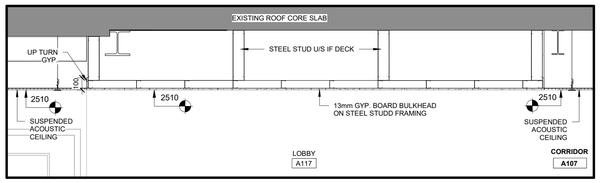
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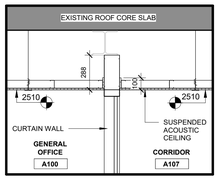
PARTIAL PROPOSED FLOOR PLAN

HOSSACK & ASSOCIATES ARCHITECTS
4-2150 DUNWIN DRIVE
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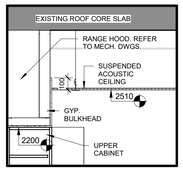
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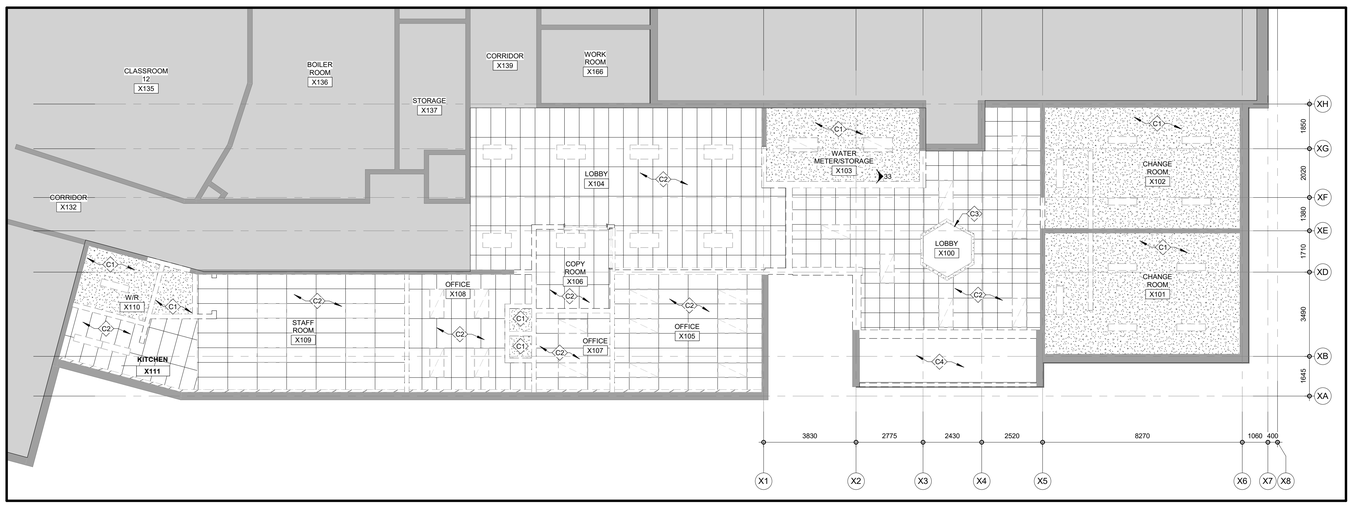
3 / A04 *CEILING DETAIL @ CORRDIOR A107 AND LOBBY*
SCALE: 1 : 20



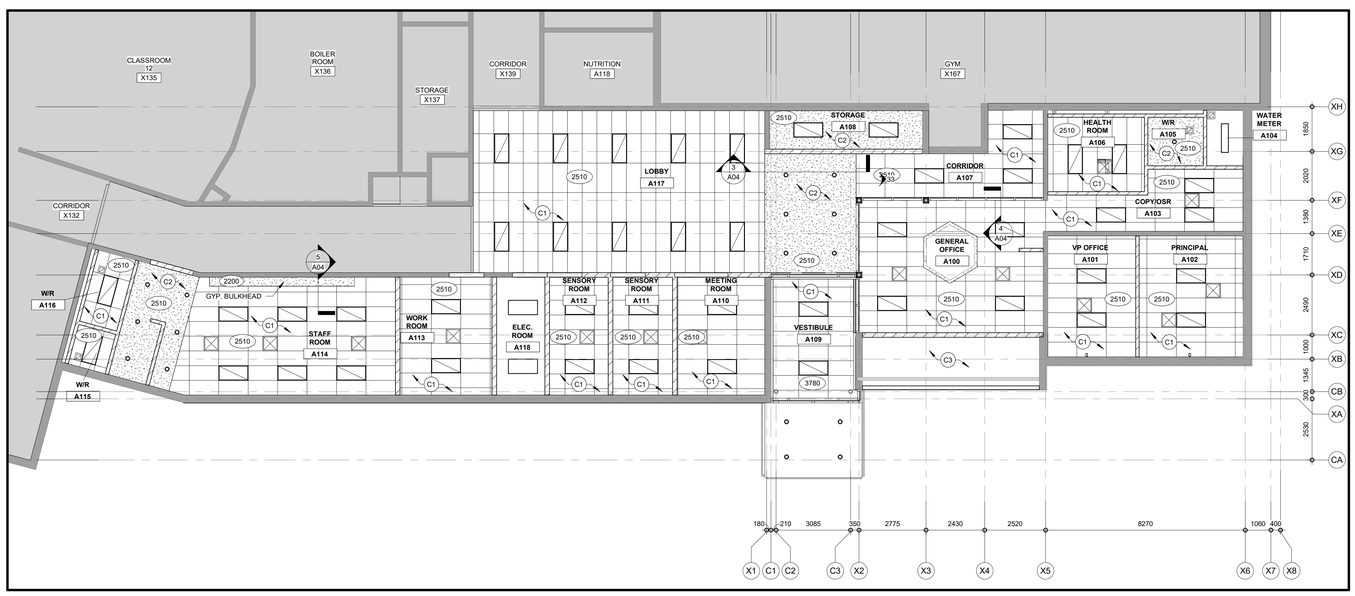
4 / A04 *WALL & CEILING DETAIL ABOVE INTERIOR SCREEN TYP.*
SCALE: 1 : 20



5 / A04 *GYP. BULKHEAD DETAIL @ STAFF ROOM A114*
SCALE: 1 : 20



1 / A04 *PARTIAL GROUND FLOOR RCP - DEMOLITION*
SCALE: 1 : 100



2 / A04 *PARTIAL GROUND FLOOR RCP - PROPOSED*
SCALE: 1 : 100

GENERAL DEMOLITION NOTES
to be followed for Demolition Floor Plans and Reflected Ceiling Plans

1. REMOVE ANY LEFTOVER EXISTING MOUNTING HARDWARE, FITTINGS ETC. ON WALLS DUE, BUT NOT LIMITED TO BRACKETS, SHELVING AND WINDOW COVERINGS BEING REMOVED AND NOT NOTED FOR RE-INSTALLATION IN AREA OF WORK. PATCH AND MAKE GOOD HOLES IN WALL FROM FITMENT REMOVAL AS REQUIRED FOR NEW FINISHES.
2. PATCH AND MAKE GOOD ANY MINOR HOLES DUE TO HARDWARE IN EXISTING WALLS TO PREPARE FOR NEW FINISHES.
3. OWNER TO REMOVE ALL PLAQUES, MIRRORS AND ARTWORK PRIOR TO DEMOLITION, PATCH AND MAKE GOOD ANY MINOR HOLES FROM REMOVALS IN EXISTING WALLS TO PREPARE FOR NEW FINISHES.
4. ALL PERIMETER WALLS IN AREA OF WORK TO REMAIN SHALL RECEIVE NEW PAINT FINISH. REFER TO ROOM FINISH SCHEDULE.
5. FOLLOWING REMOVALS OF FLOORING, ENSURE PREPARATION FOR NEW SURFACES INCLUDES PREPARATION OF REQUIRED, INCLUDING GRINDING, PATCHING AND LEVELING TO SUIT NEW FLOORING DEPTHS AND FLUSH TRANSITIONS. ALSO REFER TO SPECIFICATION AND FINISH SCHEDULE.
6. WHERE APPLICABLE LEVEL ALL EXISTING FLOORS AND CONNECTIONS BETWEEN NEW AND EXISTING FLOORS TO AS REQUIRED TO RECEIVE NEW FLOOR FINISHES. FEATHER NEW CONCRETE SLABS FOR TRANSITION AT EXISTING WITH REQUIRED FINISHES. INSTALL REQUIRED TRANSITION, PIECES BETWEEN VARIOUS FLOOR FINISHES SUITABLE FOR CONDITIONS AND ACCEPTABLE TO THE OWNER. MATCH EXISTING WHERE NOTED. REFER TO ROOM FINISH SCHEDULE FOR REQUIRED FLOOR FINISHES AND LOCATIONS.
7. COORDINATE AND PREPARE FOR NEW WORK INCLUDING REMOVALS, CUTTING, PREPARATION ETC. WHETHER ITEMS ARE SHOWN ON DEMOLITION PLAN OR NOT. INCLUDE ALL REQUIREMENTS FOR DEMOLITION AND PREPARATION TO SUIT PROPOSED FLOOR PLANS. ALL NECESSARY DISCONNECTS AND ALTERATIONS TO EXISTING MECHANICAL AND ELECTRICAL SYSTEMS SHALL BE INCLUDED. PATCH AND MAKE GOOD ALL EXISTING FINISHES TO REMAIN. REFER TO SCHEDULES AND SPECIFICATIONS FOR OTHER NECESSARY REQUIREMENTS.
8. REFER TO STRUCTURAL DRAWINGS FOR TYPICAL FLOOR INFILL DETAILS.
9. PATCH AND MAKE GOOD ANY EXISTING HOLES DUE TO MECHANICAL / STRUCTURAL / ELECTRICAL PENETRATIONS INCLUDING MATCHING RATED AND NON-RATED FIRE SEPARATIONS AT ALL REQUIRED WALLS AND BETWEEN FLOORS.
10. RENOVATED AREAS TO BE THOROUGHLY CLEANED TO OWNER SATISFACTION. ALL OF CONSTRUCTION DUST, DEBRIS AND MATERIALS.
11. ALL DIMENSIONS IN AREA OF WORK TO BE FIELD VERIFIED BY G.C. PRIOR TO START OF CONSTRUCTION.

DEMOLITION RCP NOTES

ALL REMOVALS/DEMOLITIONS TO BE COORDINATED WITH STRUCTURAL, MECHANICAL, ELECTRICAL DRAWINGS PRIOR TO DEMOLITION START. FOR ADDITIONAL DEMOLITION, DOCUMENTS AND DETAILS SEE STRUCTURAL, MECH. AND ELECT. DWGS..

NOT ALL EXISTING LIGHT FIXTURES, GRILLES, DIFFUSERS, SPRINKLER HEADS ETC. ARE NOT SHOWN ON THIS PAGE. REFER TO DEMOLITION MECH AND ELECTRICAL DRAWINGS.

PATCH AND MAKE GOOD ALL EXISTING WALLS TO REMAIN FROM CEILING DEMOLITION AND REMOVED WALL MTD. LIGHT FIXTURES AND DEVICES. REFER TO PROPOSED PLANS AND FOR NEW CEILING MATERIALS AND FINISHES.

GENERAL CONTRACTOR IS RESPONSIBLE TO REVIEW ABATEMENT REPORT IN SPECIFICATION FOR EXTENT OF ALL DESIGNATED SUBSTANCE AND HAZARDOUS MATERIALS SURVEYS AND EXTENT OF ABATEMENT WORK.

NOTE: ALL EXISTING CEILING HEIGHTS ARE +/- AND MAY VARY. FIELD VERIFY AS REQUIRED.

- C1 — REMOVE EXISTING GYPSUM CEILING, BULKHEADS, AND STUD FRAMING. PATCH AND MAKE GOOD EXISTING WALLS TO REMAIN AS REQUIRED FOR NEW CEILING. REMOVE AND/OR RELOCATE EXISTING LIGHT FIXTURES, GRILLES, AND ELECTRICAL AND MECHANICAL DEVICES. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR LIGHTING AND HVAC REMOVALS NOT SHOWN ON THIS DRAWING.
- C2 — CAREFULLY REMOVE EXISTING ACOUSTIC CEILING TILES, GRIDS, DIFFUSERS, LIGHTING, RETURNS, ETC. TO EXTENT SHOWN AS REQUIRED TO INSTALL NEW CEILING. PATCH AND MAKE GOOD WALLS TO REMAIN AS REQUIRED FOR NEW CEILING. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR ASSOCIATED REMOVAL.
- C3 — EXISTING SKYLIGHT TO REMAIN. PROTECT DURING CONSTRUCTION.
- C4 — EXISTING SOFFIT TO BE DEMOLISHED INCLUDING ALL SUPPORT MATERIALS. PREPARE ADJACENT WALL AND STRUCTURAL SLAB FOR NEW SOFFIT.

CONSTRUCTION NOTES

DRAWINGS TO BE READ IN CONJUNCTION WITH STRUCTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS.
CONTRUCTION NOTES TO BE READ IN CONJUNCTION WITH PROPOSED ELEVATIONS.

- C1 — PROPOSED GRID AND CEILING TILES. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR LIGHT FIXTURES, ELECTRICAL AND MECHANICAL DEVICES.
- C2 — PROPOSED 13mm GYPSUM BOARD ON STEEL STUD FRAMING CEILING. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR LIGHT FIXTURES, ELECTRICAL AND MECHANICAL DEVICES.
- C3 — NEW STUCCO CLAD SOFFIT 2200 AFF. REFER TO SECTION DETAIL

RCP LEGEND

- o — LIGHT FIXTURE REFER TO LIGHTING PLANS/LIGHTING SCHEDULES FOR TYPE
- FLUSH MOUNTED LIGHT FIXTURE. REFER TO LIGHTING PLANS/LIGHTING SCHEDULES FOR TYPE
- ACOUSTIC CEILING PANELS REFER TO SPECIFICATIONS FOR DESCRIPTION OF TYPES
- SUPPLY DIFFUSER
- RETURN DIFFUSER
- RP — RADIANT PANEL
- GYPSUM BOARD CEILING: 13mm GYPSUM BOARD ON 92mm STEEL STUD FRAMING @ 400 O.C.
- ### — CEILING HEIGHT FROM FINISHED FLOOR
- LF — LIGHT FIXTURE
- GB — GYPSUM BOARD

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CRESTVIEW OFFICE RENOVATION & HVAC UPGRADE

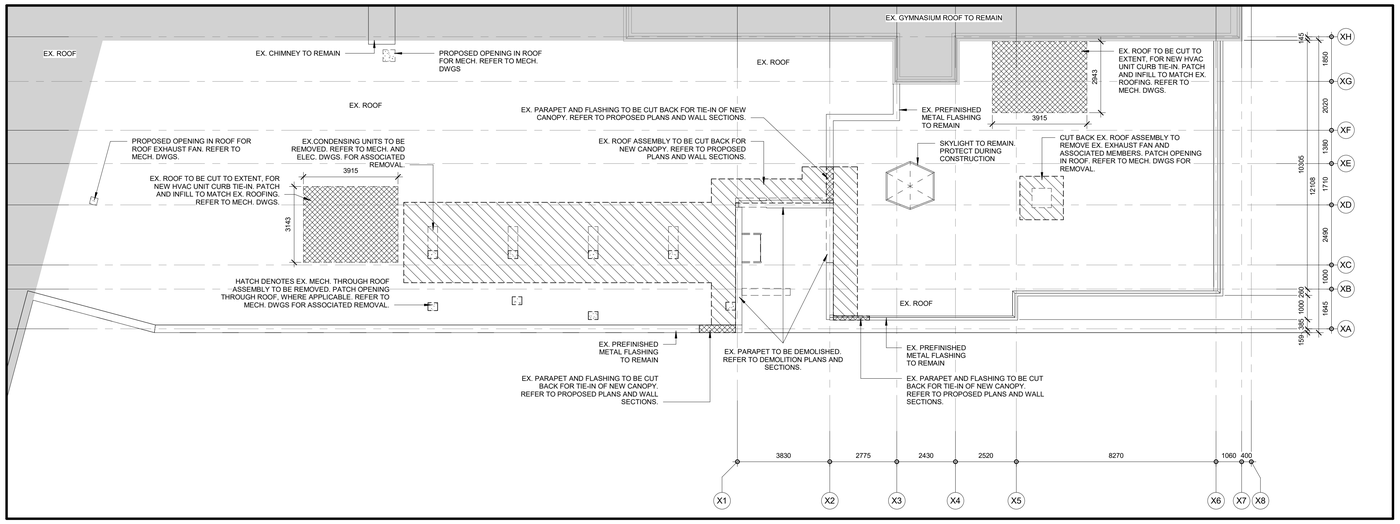
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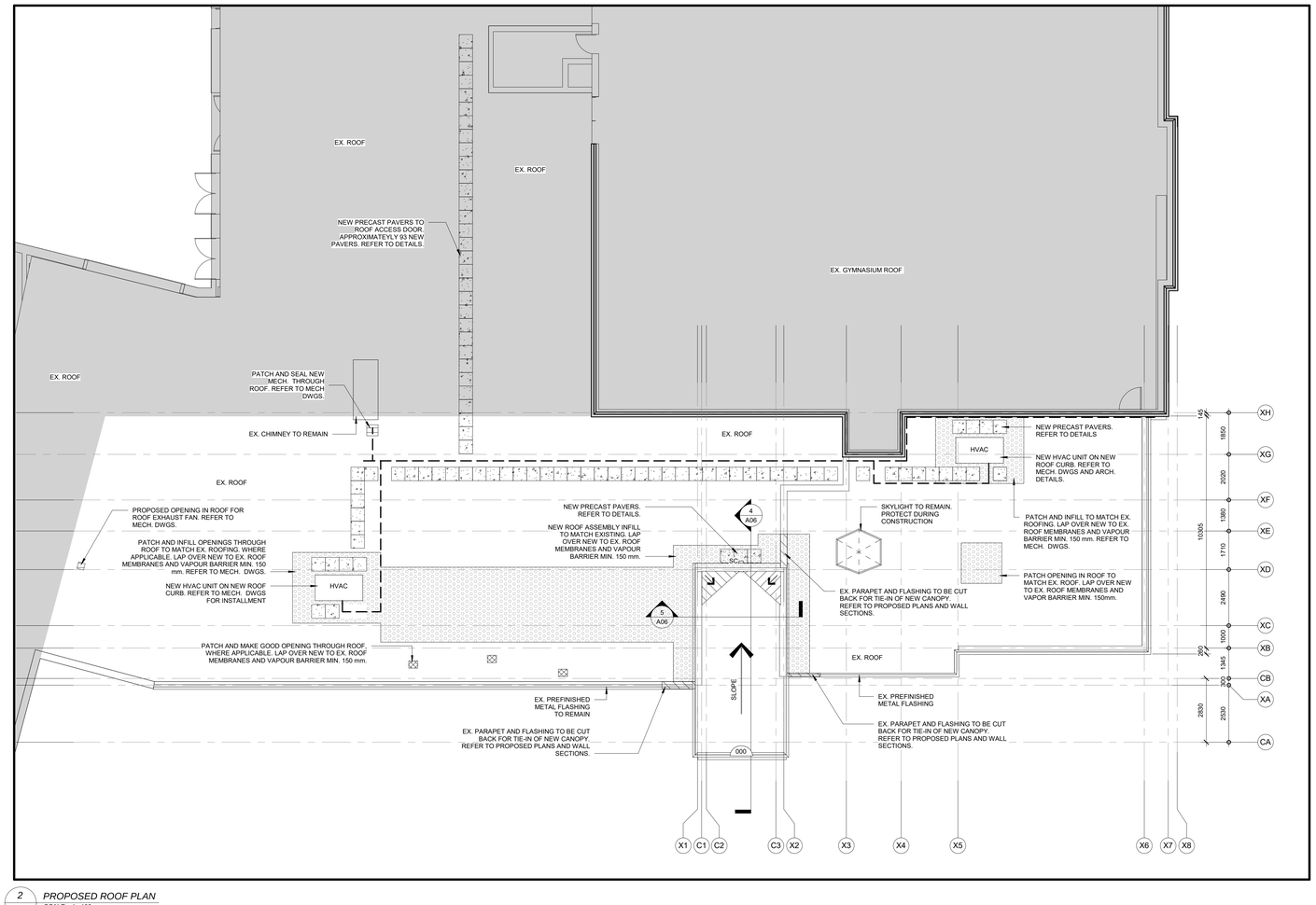
PARTIAL DEMOLITION & PROPOSED RCP

HOSSACK & ASSOCIATES ARCHITECTS
6-2150 DUNWIN DRIVE
MISSISSAUGA, ONTARIO L5L 5M8
Tel (905) 607-8284 Fax (905) 607-8290

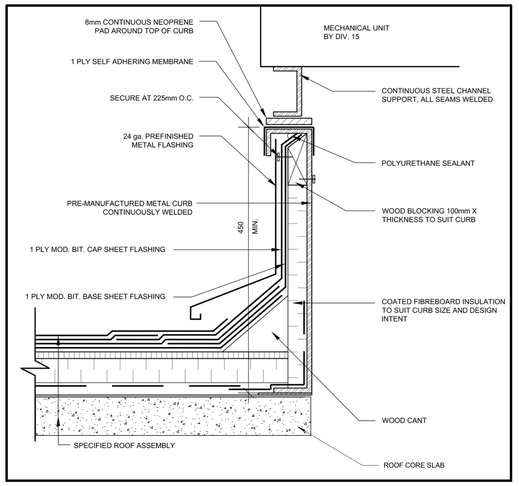
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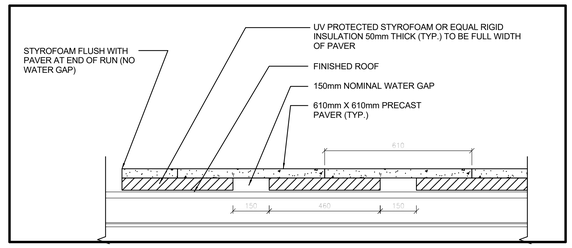
1 A05 *DEMOLITION ROOF PLAN*
SCALE: 1 : 100



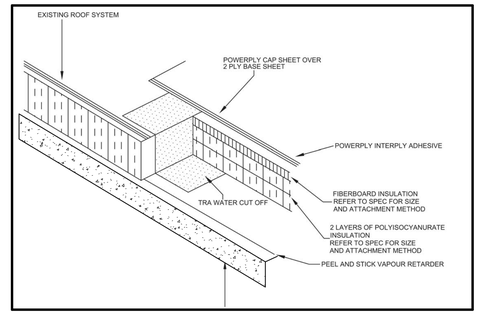
2 A05 *PROPOSED ROOF PLAN*
SCALE: 1 : 100



5 A05 *TYP. MECHANICAL CURB DETAIL*
SCALE: 1 : 10



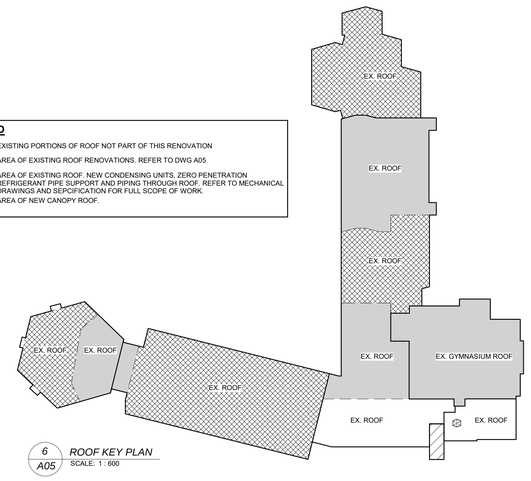
3 A05 *CONCRETE PAVER DETAIL*
SCALE: 1 : 10



4 A05 *TYP. ROOF TIE IN DETAIL*
SCALE: 1 : 10

LEGEND

- EXISTING PORTIONS OF ROOF NOT PART OF THIS RENOVATION
- AREA OF EXISTING ROOF RENOVATIONS. REFER TO DWG A05
- AREA OF EXISTING ROOF. NEW CONDENSING UNITS, ZERO PENETRATION REFRIGERANT PIPE SUPPORT AND PIPING THROUGH ROOF. REFER TO MECHANICAL DRAWINGS AND SEPCIFICATION FOR FULL SCOPE OF WORK.
- AREA OF NEW CANOPY ROOF.



6 A05 *ROOF KEY PLAN*
SCALE: 1 : 600

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CRESTVIEW OFFICE RENOVATION & HVAC UPGRADE

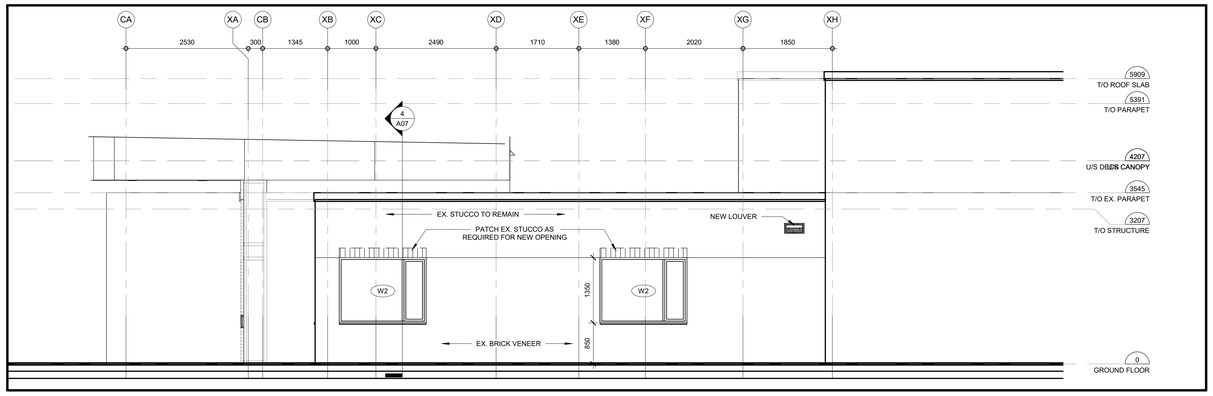
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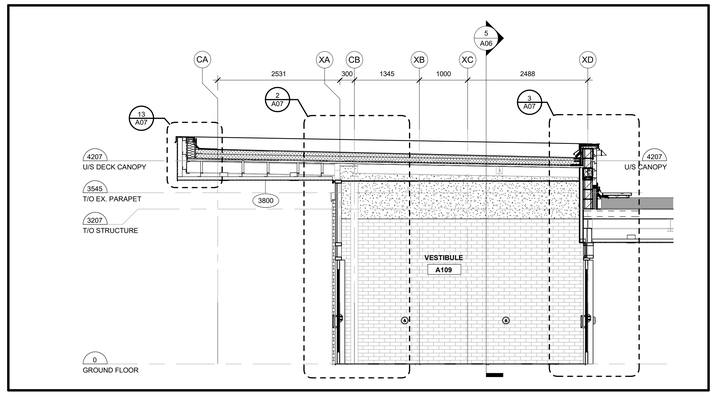
PARTIAL ROOF DEMOLITION & PROPOSED PLAN & DETAILS

HOSSACK & ASSOCIATES ARCHITECTS
A-2150 SLAWAN DRIVE
MISSISSAUGA, ONTARIO L5L 5M8
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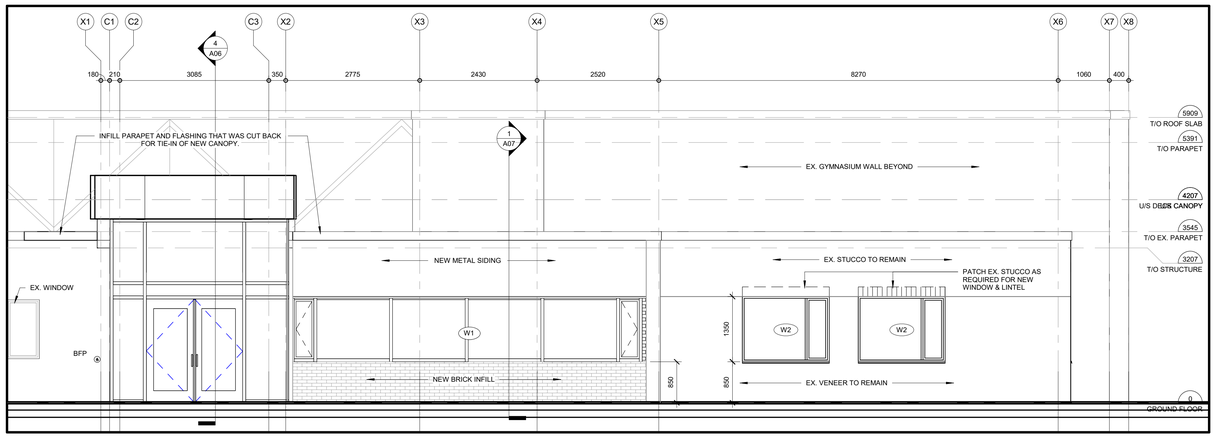
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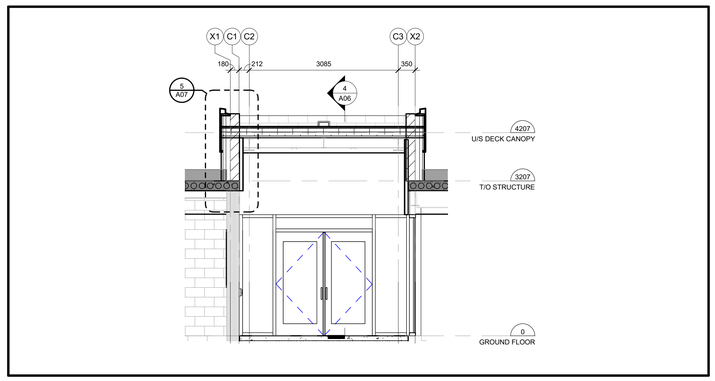
1 / A06 *PARTIAL NORTH ELEVATION*
SCALE: 1 : 50



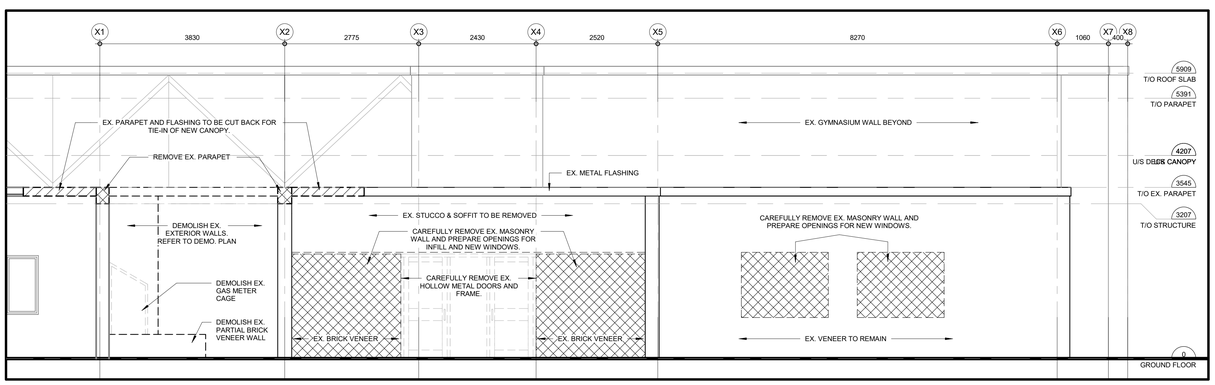
4 / A06 *SECTION @ EXTERIOR CANOPY & VESTIBULE B*
SCALE: 1 : 50



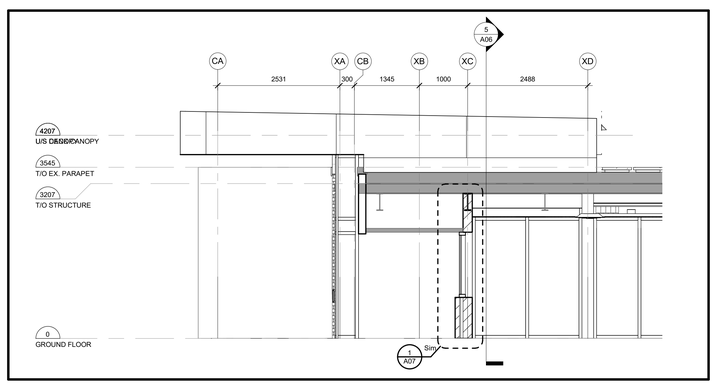
2 / A06 *PARTIAL EAST ELEVATION*
SCALE: 1 : 50



5 / A06 *SECTION @ EXTERIOR CANOPY & VESTIBULE*
SCALE: 1 : 50



3 / A06 *PARTIAL EAST ELEVATION - DEMOLITION*
SCALE: 1 : 50



6 / A06 *PARTIAL ELEVATION @ CANOPY B*
SCALE: 1 : 50

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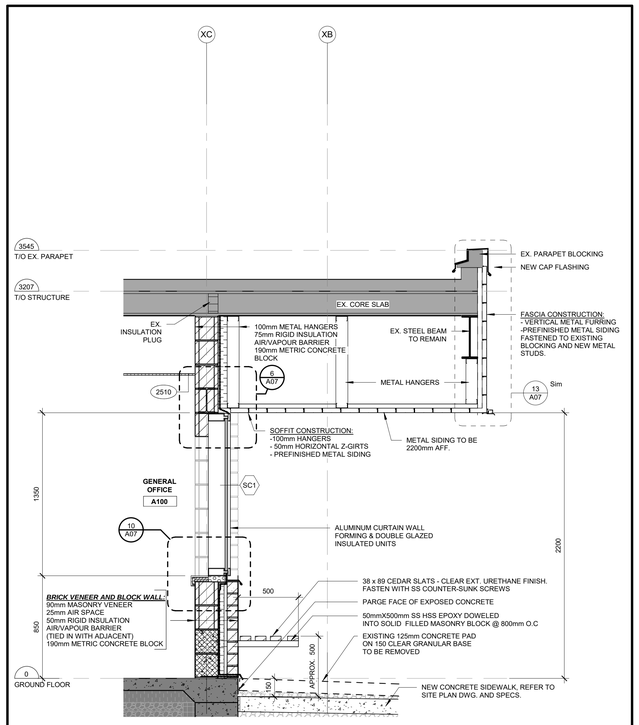
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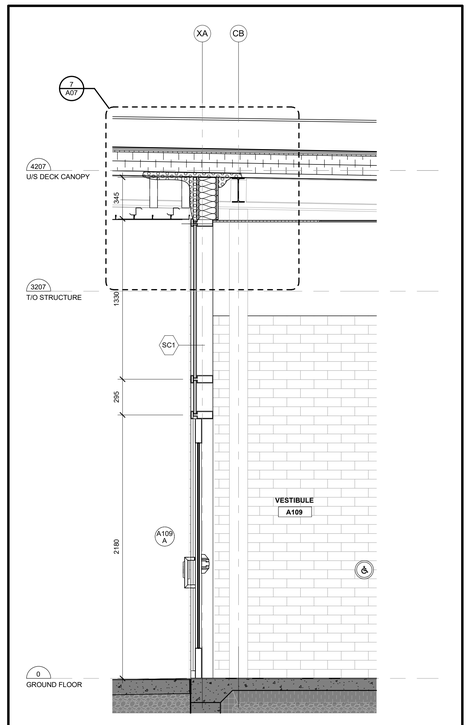
PARTIAL EXTERIOR BUILDING ELEVATIONS & SECTIONS

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MISSISSAUGA, ONTARIO L5L 5M8
Tel: (905) 607-6264 Fax: (905) 607-6290

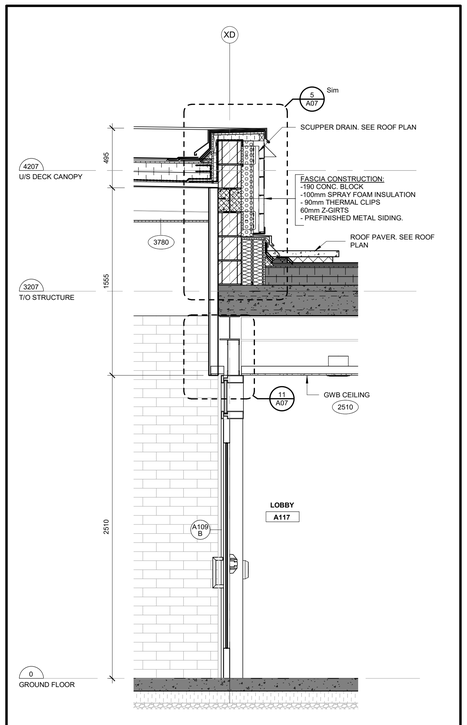
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DATE 250331	
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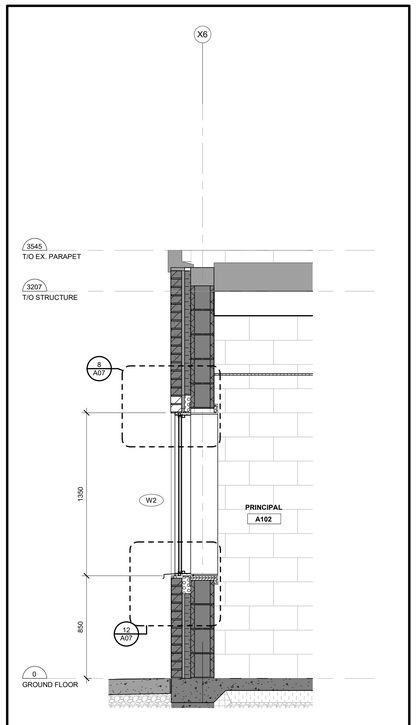
1 A07 *WALL SECTION @ GENERAL OFFICE A100*
SCALE: 1 : 20



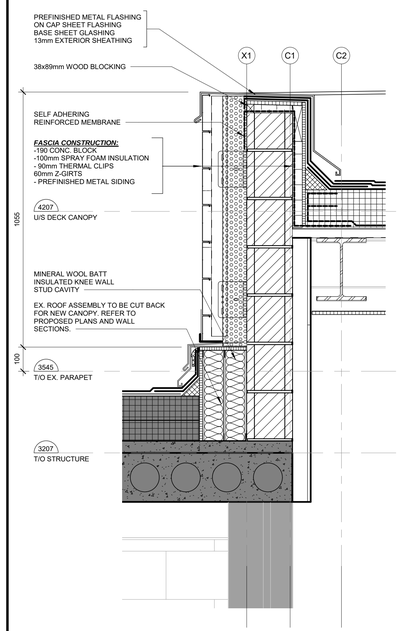
2 A07 *WALL SECTION @ EXTERIOR CANOPY & VESTIBULE B - A*
SCALE: 1 : 20



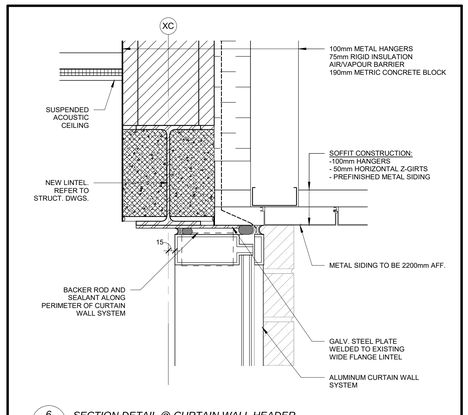
3 A07 *WALL SECTION @ EXTERIOR CANOPY & VESTIBULE B - B*
SCALE: 1 : 20



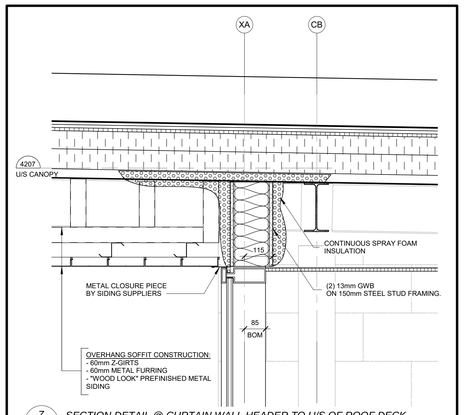
4 A07 *WALL SECTION @ EXTERIOR WINDOW*
SCALE: 1 : 20



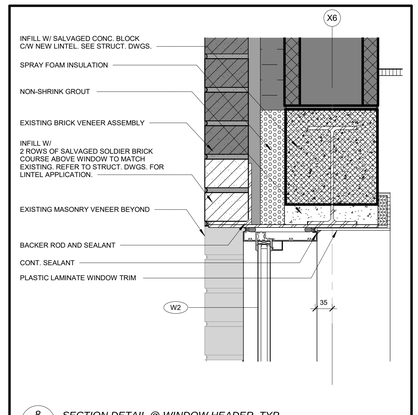
5 A07 *SECTION PARAPET DETAILS @ EXTERIOR CANOPY*
SCALE: 1 : 10



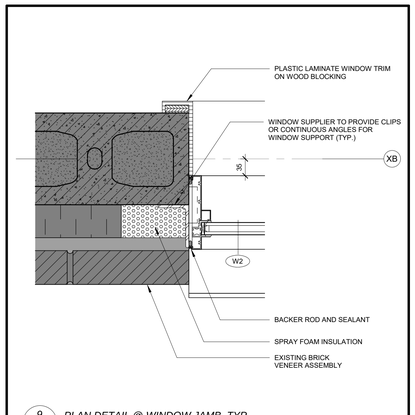
6 A07 *SECTION DETAIL @ CURTAIN WALL HEADER*
SCALE: 1 : 5



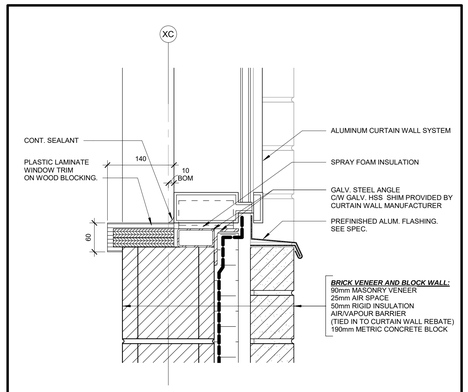
7 A07 *SECTION DETAIL @ CURTAIN WALL HEADER TO U/S OF ROOF DECK*
SCALE: 1 : 10



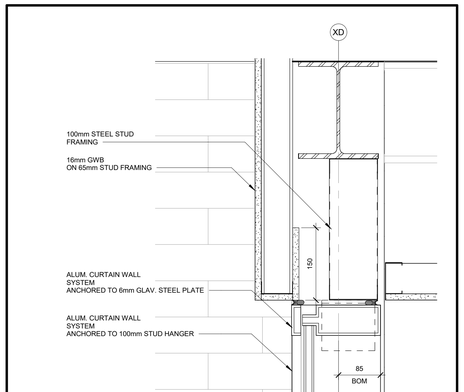
8 A07 *SECTION DETAIL @ WINDOW HEADER, TYP.*
SCALE: 1 : 5



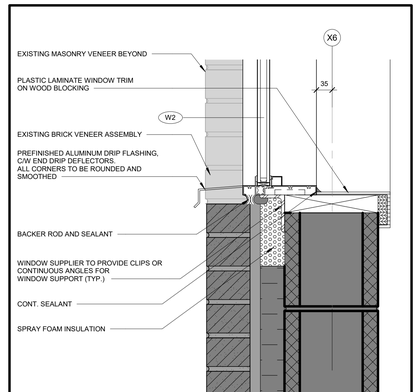
9 A07 *PLAN DETAIL @ WINDOW JAMB, TYP.*
SCALE: 1 : 5



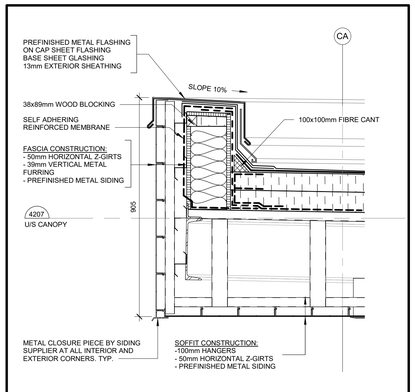
10 A07 *SECTION DETAIL @ CURTAIN WALL SILL*
SCALE: 1 : 5



11 A07 *SECTION DETAIL @ CURTAIN WALL HEADER TO U/S OF STRUCT STEELSTUD*
SCALE: 1 : 5



12 A07 *SECTION DETAIL @ WINDOW SILL, TYP.*
SCALE: 1 : 5



13 A07 *SECTION DETAIL @ APEX 'WOOD LOOK' CANOPY FASCIA*
SCALE: 1 : 10

NO.	DESCRIPTION	DATE
1	ISSUED FOR TENDER	03/31/25

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

ONTARIO ASSOCIATION OF ARCHITECTS
MAR. 27/25
PRISCILLA LADOUCEUR
LICENCE 6053
CERTIFICATE OF PRACTICE #4292

CRESTVIEW OFFICE RENOVATION & HVAC UPGRADE

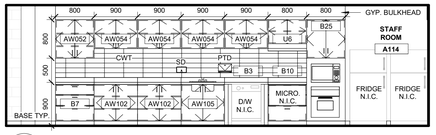
153 Montcalm Drive, Kitchener, ON, N2B 2R6

Waterloo Region District School Board

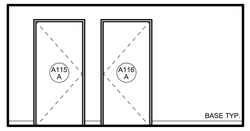
WALL SECTIONS & DETAILS

HOSSACK & ASSOCIATES ARCHITECTS
4-2150 DUNWIN DRIVE
MISSISSAUGA, ONTARIO L5L 5M8
Tel: (905) 607-6264 Fax: (905) 607-6290

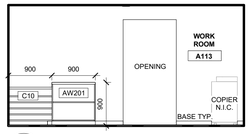
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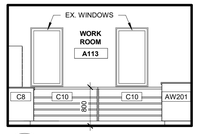
1 A08 STAFF ROOM A114 - A
SCALE: 1 : 50



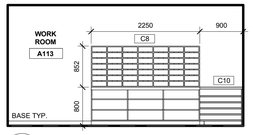
2 A08 STAFF ROOM A114 WASHROOMS - B
SCALE: 1 : 50



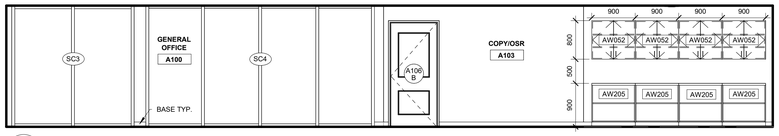
3 A08 WORK ROOM A113 - A
SCALE: 1 : 50



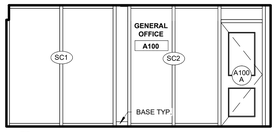
4 A08 WORK ROOM A113 - B
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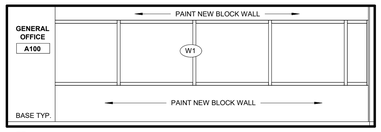
5 A08 WORK ROOM A113 - C
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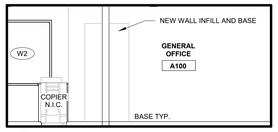
6 A08 COPY/OSR A103 - A
SCALE: 1 : 50



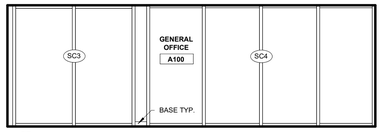
11 A08 GENERAL OFFICE A100 - D
SCALE: 1 : 50



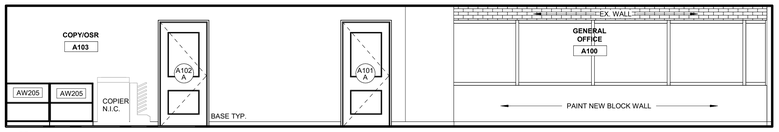
10 A08 GENERAL OFFICE A100 - C
SCALE: 1 : 50



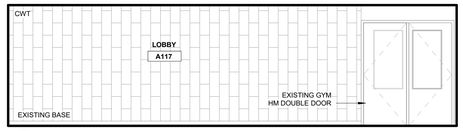
9 A08 GENREAL OFFICE A100 - B
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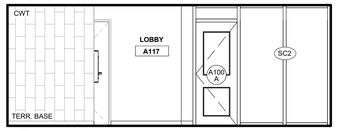
8 A08 GENERAL OFFICE A100 - A
SCALE: 1 : 50



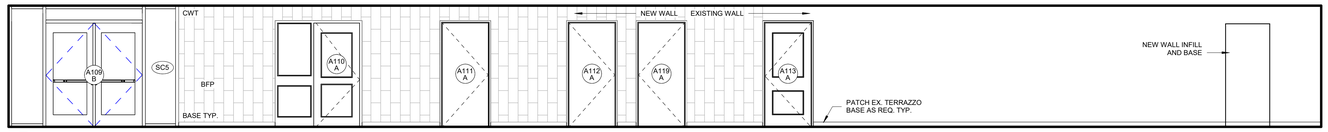
7 A08 COPY/OSR A103 - B
SCALE: 1 : 50



12 A08 LOBBY A117 - A
SCALE: 1 : 50



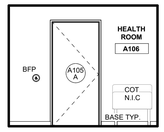
13 A08 LOBBY A117 - B
SCALE: 1 : 50



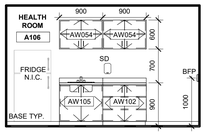
14 A08 LOBBY A117 - C
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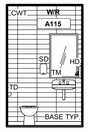
24 A08 BOTTLE FILLER WALL IN CORRIDOR A107
SCALE: 1 : 50



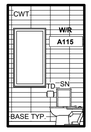
23 A08 HEALTH ROOM A106 - B
SCALE: 1 : 50



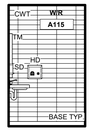
22 A08 HEALTH ROOM A106 - A
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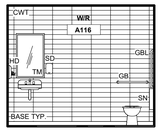
21 A08 ST. W/R A115 - C
SCALE: 1 : 50



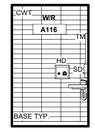
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SCALE: 1 : 50



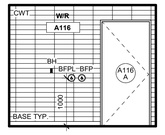
19 A08 ST. W/R A115 - A
SCALE: 1 : 50



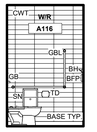
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SCALE: 1 : 50



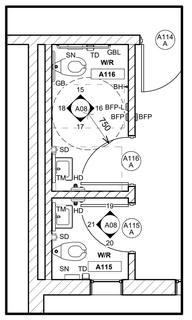
17 A08 ST. W/R A116 - C
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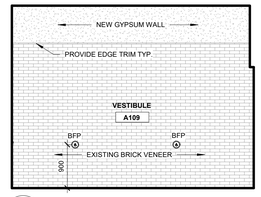
16 A08 ST. W/R A116 - B
SCALE: 1 : 50



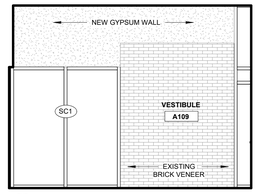
15 A08 ST. W/R A116 - A
SCALE: 1 : 50



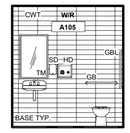
31 A08 STAFF W/R A115-A116
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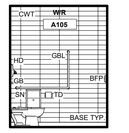
25 A08 VESTIBULE A109 - A
SCALE: 1 : 50



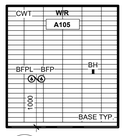
26 A08 VESTIBULE A109 - B
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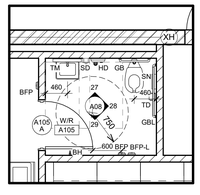
27 A08 H. W/R A105 - A
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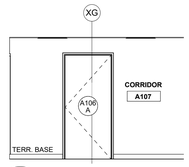
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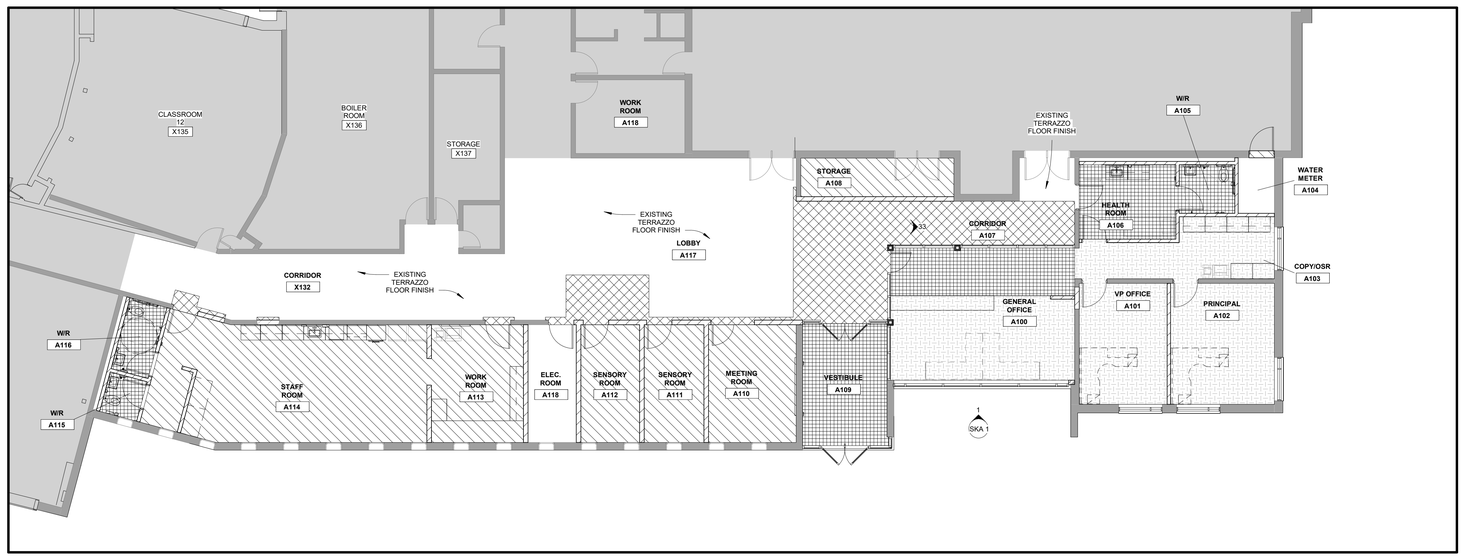
29 A08 H. W/R A105 - C
SCALE: 1 : 50



30 A08 HEALTH ROOM W/R A105
SCALE: 1 : 50



33 A08 CORRIDOR A107 - EAST ELEV.
SCALE: 1 : 50



32 A08 PARTIAL FLOOR FINISHES PLAN
SCALE: 1 : 100

FLOOR FINISHES LEGEND

- CARPET CPT1
- SHEET FLOORING 1
- TERRAZZO FLOORING
- POR FLOORING

NO.	DESCRIPTION	DATE
1	ISSUED FOR TENDER	03/31/25

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ONTARIO ASSOCIATION OF ARCHITECTS
MAR. 27/25
PRISCILLA LADOUCEUR
LICENCE 6053

CERTIFICATE OF PRACTICE #4292

CRESTVIEW OFFICE RENOVATION & HVAC UPGRADE

153 Montcalm Drive, Kitchener, ON, N2B 2R6

Waterloo Region District School Board

INTERIOR ELEVATIONS, ENLARGED WASHROOM PLANS & FLOOR PATTERN PLAN

HOSSACK & ASSOCIATES ARCHITECTS
4-2150 DUNWIN DRIVE
MISSISSAUGA, ONTARIO L5L 5M8
Tel: (905) 607-6264 Fax: (905) 607-6290

SCALE	As indicated
DATE	250331
DRAWN	TC/JK
CHECKED	PL
PROJECT	24133
DRAWING	A08
PRINT DATE	3/31/2025 12:11:17 PM
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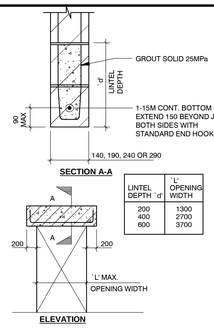
LINTEL SCHEDULES

GENERAL PURPOSE LINTELS

STEEL LINTELS

MAXIMUM CLEAR SPAN	MATERIAL	MASONRY TYPE
1400mm	L-89 x 89 x 6.4	90 BRICK OR 90 BLOCK PER WYTHE
1800mm	L-127 x 89 x 6.4 LLV	
2200mm	L-127 x 89 x 7.9 LLV	
2800mm	L-152 x 102 x 9.5 LLV	
2000mm	2 L-89 x 64 x 6.4 LLV	140 BLOCK
1800mm	2 L-89 x 89 x 6.4	190 BLOCK
2400mm	2 L-127 x 89 x 6.4 LLV	
4200mm	S200x27 + PL 170x6	
1400mm	L-102 x 102 x 6.4 + L-127 x 102 x 6.4	240 BLOCK
3000mm	S150x19 + PL 220x6	
1200mm	S100x11 + PL 270x6	290 BLOCK
1900mm	S150x19 + PL 270x6	
3500mm	S200x27 + PL 270x6	

REINFORCED MASONRY LINTELS



SECTION A-A

LINTEL DEPTH 'd'	'L' OPENING WIDTH
200	1300
400	2700
600	3700

ELEVATION

LINTELS FOR IDENTIFIED OPENINGS

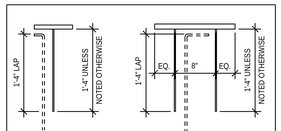
MARK	MATERIAL	ARRANGEMENT	REMARKS
L1	2-L 152x89x7.9 LLV		
L2	W200x19 + PL 170X6 + 15mm DIA RODS x 400 LG AT 600 o.c.		PROVIDE BP4 AT EACH END
L3	W200x19 + PL 170X6 + 15mm DIA RODS x 400 LG AT 600 o.c. + L127x89x6.4 LLV H.D.G.		PROVIDE BP4 AT EACH END
L4	W200x27 + PL270x6		PROVIDE BP1 AT EACH END

CONDITIONS OF USE FOR GENERAL PURPOSE LINTEL SCHEDULE:

1. WHERE LINTEL MARKS ARE SHOWN THUS: "L#". REFER TO SCHEDULE "LINTELS FOR IDENTIFIED OPENINGS" ON THIS DRAWING.
2. A SUITABLE LINTEL IS TO BE SUPPLIED FOR ALL MASONRY OPENINGS.
3. THIS SCHEDULE IS TO BE READ IN CONJUNCTION WITH THE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS.
4. THIS SCHEDULE IS TO BE USED AS A GUIDE WITH REGARD TO WALL SIZE AND OPENING WIDTH FOR ANY LINTELS NOT SPECIFICALLY NOTED ON PLAN.
5. CONCRETE BLOCK UNITS ARE HOLLOW AND UNFILLED EXCEPT FOR FIRST COURSE ABOVE LINTEL WHICH SHALL BE FILLED SOLID UNLESS NOTED OTHERWISE.
6. DO NOT SHORE LINTELS DURING WALL CONSTRUCTION.
7. PROVIDE 200mm BEARING EACH END ON 400mm LONG BY 2 COURSES DEEP OF FILLED OR SOLID MASONRY UNLESS NOTED OTHERWISE ON DRAWING.
8. CONNECT LINTELS DIRECTLY TO STRUCTURE WHERE INSUFFICIENT BEARING IS AVAILABLE.
9. LINTEL SUPPORTING EXTERIOR WYTHE OF MASONRY IN EXTERIOR WALLS SHALL BE HOT DIP GALVANIZED.
10. ALL DOUBLE ANGLE LINTELS TO BE WELDED BACK-TO-BACK TOP AND BOTTOM WITH 5mm FILLET WELDS x 50mm LONG WELD AT 600mm o/c.
11. LINTELS IN CURVED WALLS ARE TO BE ROLLED TO REQUIRED RADIUS.
12. MASONRY CONTROL JOINTS ARE NOT TO BE LOCATED THROUGH LINTELS.
13. FULL HEAD JOINTS ARE REQUIRED FOR DEPTH OF LINTEL.

NOTES FOR LINTELS FOR IDENTIFIED OPENINGS SCHEDULE:

1. A SUITABLE LINTEL IS TO BE SUPPLIED FOR ALL MASONRY OPENINGS. FOR OPENINGS THROUGH MASONRY WALLS WHICH DO NOT HAVE A SPECIFIC MARK REFER TO SCHEDULE "GENERAL PURPOSE LINTELS" ON THIS DRAWING.
2. SEE PLANS FOR LINTEL MARKS.
3. LINTEL SUPPORTING EXTERIOR WYTHE OF MASONRY IN EXTERIOR WALLS SHALL BE HOT DIP GALVANIZED. SEE GENERAL PURPOSE LINTEL SCHEDULE FOR SIZE.
4. FULL HEAD JOINTS ARE REQUIRED FOR DEPTH OF MASONRY LINTEL WHEN SPECIFIED
5. GROUT FOR LINTEL TO BE 25MPa.
6. MASONRY CONTROL JOINTS ARE NOT TO BE LOCATED THROUGH MASONRY LINTELS.
7. ALL EXTERIOR LINTELS TO BE HOT-DIP GALVANIZED AFTER FABRICATION AND STRAIGHTENED TO MEET CSA S16 TOLERANCES.
8. PROVIDE 8" BEARING EACH END UNLESS NOTED OTHERWISE ON DRAWING.
9. BEARING TO BE ON 2'-0" LONG BY 2 COURSES DEEP OF FILLED MASONRY UNLESS OTHERWISE NOTED ON PLAN, DRAWING, OR BEARING PLATE SCHEDULE.



DETAIL 1
SCALE: NTS

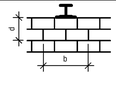
DETAIL 2
SCALE: NTS

BEARING PLATE SCHEDULE

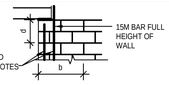
MARK	SIZE	ANCHOR SIZE	HOLD DOWN BAR	REMARKS	MINIMUM GROUTING bxd
BP1	190x190x16	1-20mm DIA x 400 LG	WHEN USED AT ROOF PROVIDE 1-15M FULL HEIGHT OF WALL	DETAIL 1	600x400
BP2	400x190x20	2-20mm DIA x 400 LG	WHEN USED AT ROOF PROVIDE 1-15M FULL HEIGHT OF WALL	DETAIL 2	800x400
BP3	300x190x16	1-20mm DIA x 400 LG	WHEN USED AT ROOF PROVIDE 1-15M FULL HEIGHT OF WALL	DETAIL 1	600x400

NOTES:

1. ALL BEAMS AND JOISTS ARE TO BE PROVIDED WITH A BEARING PLATE. LINTELS ARE TO BE PROVIDED WITH A BEARING PLATE WHEN INDICATED ON THE DRAWINGS.
2. THE FIRST AND LAST BEARING PLATES ARE SHOWN AS THUS "BP#" ON PLAN AND ALL BEAMS AND JOISTS BETWEEN ARE TO BE PROVIDED THE SAME BEARING PLATE.
3. FILL BLOCK CORES SOLID BELOW BEARING PLATE 1'-4" LONG BY 2 COURSES DEEP UNLESS NOTED OTHERWISE.
4. CORES AT ALL HOLD DOWN BARS TO BE FILLED SOLID WITH 25MPa GROUT.
5. AT HOLD DOWN BAR SPLICE LOCATIONS, LAP BARS 2'-0" MIN.
6. AT ALL HOLD DOWN BARS, PROVIDE STANDARD HOOK AT U/S OF BEARING PLATES.



2-15M SEE REINFORCED MASONRY NOTES



15M BAR FULL HEIGHT OF WALL

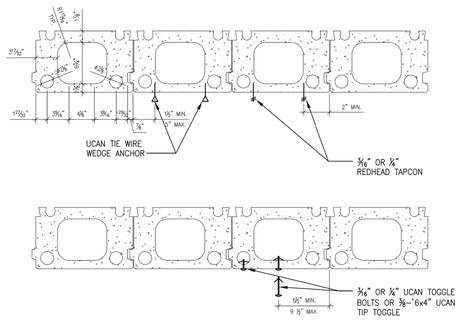
TABLE 1 - CLASS `B' LAP LENGTHS

BAR TYPE	BAR LOCATION	BAR SIZE	f'c=20MPa	f'c=25MPa	f'c=30MPa	f'c=35MPa	f'c=40MPa
BLACK BAR	TOP HORIZONTAL BARS (BARS WITH MORE THAN 300mm OF FRESH CONCRETE PLACED BELOW BAR)	10M	620mm	550mm	500mm	470mm	440mm
		15M	870mm	780mm	710mm	660mm	620mm
		20M	1070mm	960mm	870mm	810mm	760mm
		25M	1720mm	1540mm	1400mm	1300mm	1220mm
		30M	2030mm	1820mm	1660mm	1540mm	1440mm
		35M	2430mm	2180mm	1990mm	1850mm	1720mm
	OTHER THAN TOP HORIZONTAL BARS	10M	480mm	430mm	390mm	360mm	340mm
		15M	670mm	600mm	550mm	510mm	480mm
		20M	820mm	740mm	670mm	620mm	580mm
		25M	1330mm	1200mm	1080mm	1000mm	940mm
		30M	1570mm	1400mm	1280mm	1180mm	1110mm
		35M	1870mm	1670mm	1530mm	1420mm	1320mm
EPOXY COATED BAR	TOP HORIZONTAL BARS (BARS WITH MORE THAN 300mm OF FRESH CONCRETE PLACED BELOW BAR)	10M	850mm	750mm	700mm	650mm	600mm
		15M	1150mm	1050mm	950mm	900mm	850mm
		20M	1400mm	1260mm	1150mm	1100mm	1000mm
		25M	2250mm	2050mm	1850mm	1700mm	1600mm
		30M	2700mm	2400mm	2200mm	2050mm	1900mm
		35M	3200mm	2850mm	2600mm	2400mm	2250mm
	OTHER THAN TOP HORIZONTAL BARS	10M	720mm	640mm	580mm	540mm	500mm
		15M	1020mm	900mm	820mm	760mm	720mm
		20M	1240mm	1100mm	1020mm	940mm	880mm
		25M	1980mm	1780mm	1620mm	1500mm	1400mm
		30M	2360mm	2100mm	1920mm	1780mm	1660mm
		35M	2800mm	2520mm	2300mm	2120mm	1980mm

NOTES:

1 - CLASS `B' LAP LENGTH IN ACCORDANCE WITH CSA A23.3-94, 12.15.1 (LAP=1.3 x DEVELOPMENT LENGTH)

2 - TABLE VALID FOR:
- NORMAL DENSITY CONCRETE
- DEFORMED REINFORCEMENT, fy=400 MPa
- CLEAR COVER AT LEAST $\frac{1}{2}$.0 d
- BEAMS AND COLUMNS:
  - CLEAR SPACING BETWEEN BARS NOT LESS THAN 1.4 d
    - MEMBERS CONTAINING MINIMUM STIRRUP OR TIES WITHIN SPLICE LENGTH
  - SLABS AND WALLS:
  - CLEAR SPACING BETWEEN BARS NOT LESS THAN 2.0 d



ANCHORAGE DETAILS

NOT TO SCALE

CEILING/DUCTWORK AND PIPE ANCHORAGE DETAILS TO RAPIDEX ROOF PANELS

1. REFER TO ARCHITECTURAL/MECHANICAL AND ELECTRICAL DRAWINGS FOR SPACING OF ANCHORS.
2. CEILING GRID WIRE
   a. UCAN TIE WIRE WEDGE ANCHOR – INSTALL MIN 1.5" FROM SIDE OR END EDGES OF EACH BLOCK UNIT AND NOT MORE THAN 5" FROM SIDE EDGES
   b. REDHEAD TAPCON 3/16" AND ¼" – INSTALL MIN 2" FROM SIDE OR END EDGES, SIZE LENGTH FOR 1" TO 1-1/8" EMBEDMENT
   c. TOGGLE BOLTS AS NOTED FOR PIPES BELOW WITH APPROPRIATE EYELET
3. DUCTWORK, SMALL CONDUITS, LIGHT CABLE TRAYS
   a. REDHEAD TAPCON 3/16" AND ¼" – INSTALL MIN 2" FROM SIDE OR END EDGES, SIZE LENGTH FOR 1" TO 1-1/8" EMBEDMENT
   b. TOGGLE BOLTS AS NOTED FOR PIPES BELOW WITH APPROPRIATE EYELET
4. PIPES, LARGE ELEC CONDUITS AND HEAVY CABLE TRAYS
   a. UCAN TOGGLE BOLTS 3/16" AND ¼" DIA – INSTALL IN VOID SPACE MIN 6.5" FROM SIDE EDGES AND MIN 2" FROM END EDGES
   b. UCAN TIP TOGGLE – 3/8–16 X 4" – ZINC PLATED STEEL / UTT (CALFAST.COM) – INSTALL IN VOID SPACE MIN 6.5" FROM SIDE EDGES AND MIN 2"333 FROM END EDGES

GENERAL

1. GENERAL CONTRACTOR TO SITE VERIFY ALL CONDITIONS AND OR DIMENSIONS SHOWN OR IMPLIED ON THE STRUCTURAL DRAWINGS.
2. GENERAL CONTRACTOR TO CO-ORDINATE ALL STRUCTURAL DOCUMENTS AND WORK WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL AND SITE SERVICING DOCUMENTS AND WORK.
3. REPORT ANY DISCREPANCIES AND OR CONFLICTS IN DIMENSIONS OR DETAILS TO THE ARCHITECT FOR CLARIFICATION PRIOR TO COMMENCING THE WORK IN QUESTION.
4. PROVIDE ALL TEMPORARY NEEDLING, SHORING AND BRACING AS REQUIRED TO SAFELY COMPLETE THE WORK SHOWN ON THE STRUCTURAL DRAWINGS. SUBMIT, UPON REQUEST OF THE STRUCTURAL ENGINEER, DRAWINGS DETAILING THE TEMPORARY WORKS, SEALED SIGNED AND DATED BY A LICENSED PROFESSIONAL ENGINEER.
5. PROVIDE ALL FALSE WORK AND RESHORING REQUIRED TO CONSTRUCT CONCRETE WALLS, COLUMNS AND BEAMS SHOWN ON THE STRUCTURAL DRAWINGS.

EXCAVATION AND BACKFILL

1. NO SOILS INVESTIGATION WAS PREPARED FOR THIS PROJECT.
2. NEW FOUNDATIONS ARE DESIGNED FOR A SERVICE LIMIT STATED RESISTANCE OF 100 kPa ON NATIVE SOIL. NOTE EXISTING FOOTINGS WERE DESIGNED FOR ALLOWABLE BEARING PRESSURE OF 200kPa.
3. ALL FOOTING EXCAVATIONS ARE TO BE INSPECTED BY THE GEOTECHNICAL CONSULTANT PRIOR TO PLACING CONCRETE.
4. EXCAVATE FIRST FOR THOSE FOOTINGS SHOWN AT THE DEEPEST ELEVATIONS, WORKING UP TO THE HIGHEST ELEVATIONS.
5. UNDER THE SUPERVISION OF THE GEOTECHNICAL CONSULTANT AND PRIOR TO PLACING SUB SLAB ON GRADE GRANULAR FILL, PROOF ROLL AREA TO RECEIVE SLAB ON GRADE AND FOOTINGS. REMOVE ANY SOFT OR WEAK AREAS AND BACKFILL WITH GRANULAR 'B' COMPACTED TO 100% STANDARD PROCTOR MAXIMUM DRY DENSITY.

CONCRETE AND CONCRETE REINFORCING

1. ALL CONCRETE WORK INCLUDING MATERIALS, MIXING, PLACING, FINISHING, CURING, COLD WEATHER PROTECTION, HOT WEATHER PROTECTION, FORMWORK AND RESHORING IN ACCORDANCE WITH A23.1 AND A23.3 CURRENT UNLESS NOTED OTHERWISE HERE.
2. ALL CONCRETE REINFORCING INCLUDING MATERIALS, FABRICATION, DETAILING, LAP SPLICES, PLACEMENT, FIXING AND COVER IN ACCORDANCE WITH A23.1 AND A23.3 CURRENT UNLESS NOTED OTHERWISE HERE.
3. WELDED WIRE MESH TO BE LAPPED ONE (1) FULL MESH PLUS 50mm. PROVIDE CONCRETE BRICK BOLSTERS FOR WELDED WIRE MESH AT 1000mm ON CENTRE EACH WAY.
4. VAPOUR BARRIER BELOW SLAB ON GRADE TO BE 10 MIL POLYETHYLENE (STEGO WRAP WITH 4" STEGO TAPE AT ALL JOINTS OR MEADOWS PERMINDATOR WITH 4" PERMINATOR TAPE AT ALL JOINTS), LAPPED 200mm MINIMUM AT ALL JOINTS AND TURNED UP AT SLAB EDGES. TAKE CARE NOT TO PUNCTURE VAPOUR BARRIER. IMMEDIATELY PRIOR TO PLACING CONCRETE, INSPECT VAPOUR BARRIER AND PATCH ALL PUNCTURES.
5. CURE ALL SLABS ON GRADE WITH A PRE-APPROVED CURING COMPOUND COMPATIBLE WITH THE PROPOSED FLOORING ADHESIVE. MAINTAIN AIR TEMPERATURE AT OR ABOVE 100C FOR SEVEN (7) DAYS.
6. ALL SLABS TO BE LEFT EXPOSED IN THE COMPLETED BUILDING ARE TO RECEIVE TWO COATS OF A PRE-APPROVED CONCRETE SEALER IMMEDIATELY PRIOR TO TURNING THE BUILDING OVER TO THE OWNER.
7. CONCRETE PROPERTIES

LOCATION	SPEC. 28 DAY COMPRESSIVE STRENGTH	SLUMB	AIR CONTENT **	EXPOSURE CLASS
MUD SLABS & LEAN FILL	10 MPa	125 MAX		N
SLABS ON GRADE (INTERIOR)	25 MPa	100 MAX w/c -.45		N
FOOTINGS	25 MPa	100 MAX		F-2
FOUNDATION WALLS	25 MPa	100 MAX w/c-.55		F-2
SLAB ON DECK	25 MPa	100 MAX		N
SUSPENDED SLAB	30MPa	100 MAX		N

8. REINFORCING STEEL TO BE GRADE 400, WITH A MINIMUM SPECIFIED YIELD STRENGTH OF 400 MPA.
9. SUBMIT REINFORCING STEEL SHOP DRAWING TO THE ENGINEER FOR REVIEW PRIOR TO FABRICATION.

STRUCTURAL STEEL

1. SUBMIT FOR CONSULTANT'S REVIEW ERECTION DIAGRAMS AND FABRICATION DETAILS IN ACCORDANCE WITH THE GENERAL NOTES. SHOP DRAWINGS TO BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER FOR STEEL CONNECTIONS.
2. CONSULTANT'S REVIEW OF SHOP DRAWING DOES NOT RELEASE THE CONTRACTOR OF HIS RESPONSIBILITY FOR THE COMPLETENESS OF THE WORK NOR CO-ORDINATION WITH OTHER TRADES.
3. FABRICATION AND ERECTION OF STEEL SHALL BE IN ACCORDANCE WITH CSA S16 (CURRENT).
4. STRUCTURAL STEEL TO CONFORM TO THE FOLLOWING TABLE UNLESS NOTED OTHERWISE.

SHAPE	STANDARD	GRADE	MIN YIELD STRENGTH
CANADIAN WWF & W	GSA G40.21	350W	50 Ksi
HOLLOW STRUCTURAL SECTION CLASS C	GSA G40.21	350W	50 Ksi
PLATES, CHANNELS, ANGLES	GSA G40.21	350W	50 Ksi
WWF & W NOT ROLLED IN CANADA	ASTM A572	50	50 Ksi

5. ALL WELDING SHALL BE DONE BY AN ORGANIZATION FULLY APPROVED BY THE CANADIAN WELDING BUREAU UNDER CSA-W47.1 (CURRENT) IN DIVISION 1 OR 2 AT THE TIME OF TENDERING. WELDERS TO BE CWB CERTIFIED TO THE COMPANIES STANDARDS. WELDING AND WELDING MATERIALS SHALL CONFORM TO CSA-W59-(CURRENT).
6. THE FABRICATOR SHALL NOTE THE SIZE AND TYPE OF BOLTS AND WELDS USED IN STRUCTURAL CONNECTIONS ON THE SHOP DRAWINGS.
7. ALL STRUCTURAL STEEL SHALL BE SUFFICIENTLY STRAIGHT THAT VARIATIONS CANNOT BE DETERMINED WITH THE UNAIDED EYE. ALL STRUCTURAL STEEL SHALL BE THOROUGHLY CLEANED OF ALL LOOSE MILL SCALE, DIRT, OIL, OR OTHER FOREIGN MATTER BEFORE SHOP PAINTING. SHOP PAINT SHALL CONFORM TO CAN/CGSB 1.40-M89 OR CISC/CPMA STANDARD 2-75.
8. WHERE HOT DIP GALVANIZING (HDG) IS SPECIFIED IT SHALL BE IN ACCORDANCE WITH CAN/CSA-G164-M92 (MINIMUM ZINC COATING 600 GSM).
9. STEEL LINTELS SHALL HAVE A MINIMUM BEARING LENGTH OF 8".

REINFORCED MASONRY NOTES

1. VERTICAL MASONRY REINFORCING STEEL TO BE FY = 400 MPa.
2. LAP ALL VERTICAL 15M REINFORCING 600mm UNLESS NOTED OTHERWISE. LAP ALL 20M REINFORCING 800mm UNLESS NOTED OTHERWISE.
3. UNLESS NOTED OTHERWISE IN WALL SCHEDULE OR ELSEWHERE IN THE STRUCTURAL DOCUMENTS, MASONRY UNITS TO BE 15MPa.
4. FOR LOAD BEARING WALLS & MASONRY SHEAR WALL MORTAR TYPE 'S'.
5. GROUT TO BE 25MPa WITH 10mm MAX AGGREGATE SIZE AND 150mm ± 25mm SLUMP. GROUTING TO CONFORM TO REQUIREMENTS OF CSA STANDARD CAN3-A371-94. ALL 'LOW-LIFT'. MAXIMUM LIFT 1000mm.
6. UNLESS SPECIFICALLY DETAILED OTHERWISE ON THE STRUCTURAL DRAWINGS VERTICAL REINFORCING TO BE LOCATED IN CENTRE OF BLOCK.
7. FOR MASONRY WALLS NOT LISTED HERE, REFER TO ARCHITECTURAL DRAWINGS.
8. IN ADDITION TO THE VERTICAL REINFORCING SPECIFIED IN THE MASONRY WALL SCHEDULE PROVIDE A MINIMUM OF 2-15M EACH SIDE OF:
   a. ALL DOOR OPENINGS
   b. ALL WINDOW OPENINGS
   c. AT ENDS OF ALL WALLS
   d. EACH SIDE OF EVERY MASONRY WALL CONTROL JOINT
9. PROVIDE DOWELS FROM FOUNDATION WALLS TO REINFORCED MASONRY WALL AND PIERS ABOVE. DOWELS ARE TO MATCH SIZE AND SPACING OF WALL AND PIERS REINFORCING SPECIFIED EITHER IN THE WALL SCHEDULE, NOTE 8 ABOVE, OR ELSEWHERE IN THE STRUCTURAL DOCUMENTS. MINIMUM BAR LENGTHS AND LAPS WITH VERTICAL MASONRY REINFORCING TO BE:
   a. 15M X 1200 LONG; 600 LAP
   b. 20M X 1600 LONG; 800 LAP
10. ALL MASONRY WALLS SHOWN IN THE MASONRY WALL SCHEDULE ARE TO HAVE LADDER TYPE CONTINUOUS HORIZONTAL WALL REINFORCING AT 400 ON CENTRE. PROVIDE CONTINUOUS HORIZONTAL WALL REINFORCING AT 200 ON CENTRE IN ACOUSTIC BLOCK WALL MINIMUM LAP TO BE 200mm. MINIMUM WIRE DIAMETER TO BE 4.76mm. PROVIDE PREFABRICATED CORNER AND TEE HORIZONTAL REINFORCING ALL CORNERS.
11. PROVIDE STANDARD 90 DEGREE HOOK AT THE TOP OF ALL HOLD DOWN BARS AS SPECIFIED CUT WEB OF CONCRETE BLOCK FOR INSTALLATION OF HOOKED REINFORCING.
12. MASONRY TO BE CONSTRUCTED IN FULL RUNNING BOND. TOOTH CONSTRUCTION JOINTS WILL NOT BE ACCEPTED.
13. ALL MASONRY WALLS TO BE BUILT TO UNDERSIDE OF THE DECK ABOVE. WALLS TO BE BUILT TIGHT TO UNDERSIDE OF BEAMS AND GROUTED SOLID.
14. THE TOPS OF ALL MASONRY WALLS ARE TO HAVE LATERAL SUPPORT. SEE DETAIL '4-P' ON ZES1.02.
15. ALL OPENINGS IN MASONRY WALLS REQUIRE A LINTEL. COORDINATE LOCATIONS AND CLEAR MASONRY OPENING WIDTHS WITH ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS.
    A. FOR LOAD-BEARING WALLS LINTELS ARE DENOTED "Lxx" AND ARE LISTED IN THE "LINTEL SCHEDULE – LINTELS FOR IDENTIFIED OPENINGS" SEE SCHEDULES ON DRAWING S1.01
    B. OPENINGS IN NON-LOAD-BEARING WALLS, OPENINGS ARE NOT SHOWN ON THE STRUCTURAL DRAWINGS, OORDINATE LOCATIONS AND CLEAR MASONRY OPENING WIDTHS WITH ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS AND SELECT THE APPROPRIATE LINTEL FROM "LINTEL SCHEDULE - GENERAL PURPOSE LINTELS" AS SHOWN IN THE SCHEDULES ON DRAWING S1.01, USING WALL CONSTRUCTION AND MAXIMUM CLEAR OPENING WIDTH AS THE CRITERIA. IF A STEEL COLUMN IS WITHIN 200mm OF THE EDGE OF AN OPENING A GENERAL PURPOSE STEEL LINTEL IS TO BE PROVIDED.

Sheet List

Sheet Number	Sheet Name
S1.01	STRUCTURAL DATA AND TABLES
S1.02	STANDARD DETAILS
S2.01	FOUNDATION PLAN
S2.02	CANOPY & ROOF FRAMING PLANS
S3.01	SECTIONS

NO.	DESCRIPTION	DATE
1	ISSUED FOR TENDER	2025-03-27

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

LICENSED PROFESSIONAL ENGINEER
J.A. GILLETT
100187653
2025-03-27
PROVINCE OF ONTARIO
CERTIFICATE OF PRACTICE #4292

CRESTVIEW OFFICE RENOVATION & HVAC UPGRADE

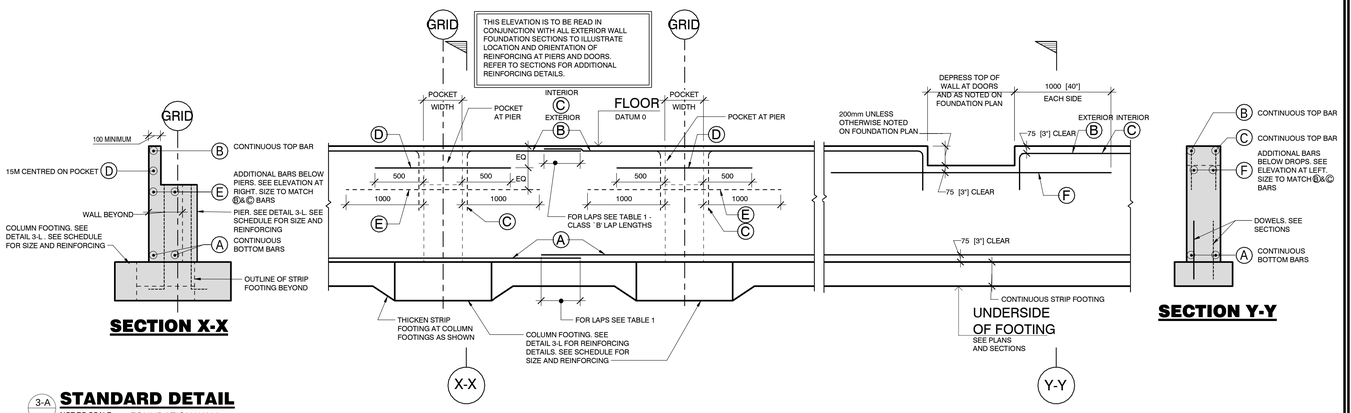
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Waterloo Region District School Board

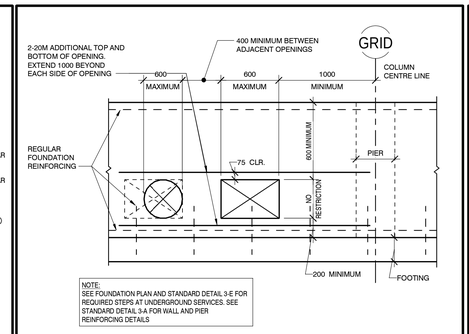
STRUCTURAL DATA AND TABLES

MTE
Engineers, Scientists, Surveyors
519-204-6510

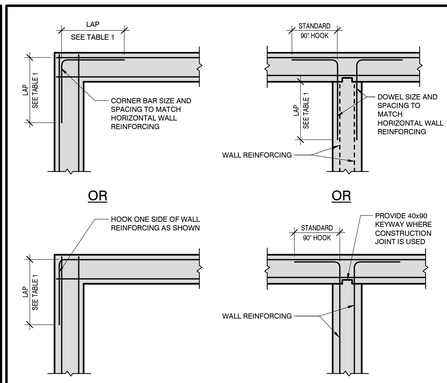
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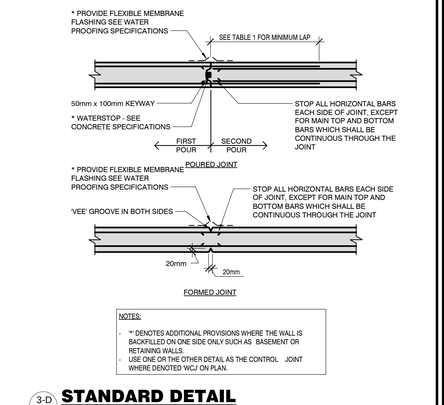
3-A **STANDARD DETAIL**
NOT TO SCALE — FOUNDATION WALL - HORIZONTAL REINFORCING



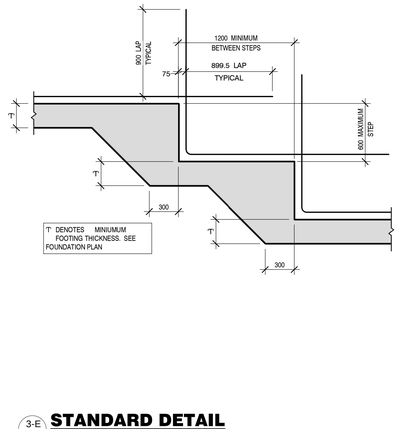
3-B **STANDARD DETAIL**
NOT TO SCALE — FOUNDATION WALL - ADDITIONAL REINFORCING AT OPENINGS



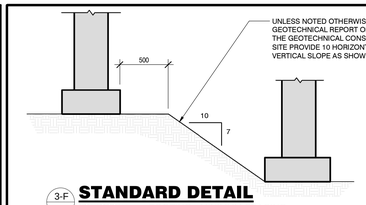
3-C **STANDARD DETAIL**
NOT TO SCALE — FOUNDATION WALL - CORNER REINFORCING DETAILS



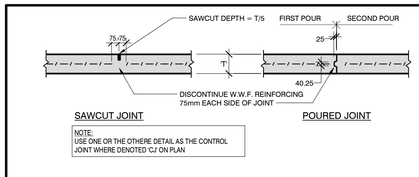
3-D **STANDARD DETAIL**
NOT TO SCALE — FOUNDATION WALL - 'WCJ' - WALL CONTROL JOINTS



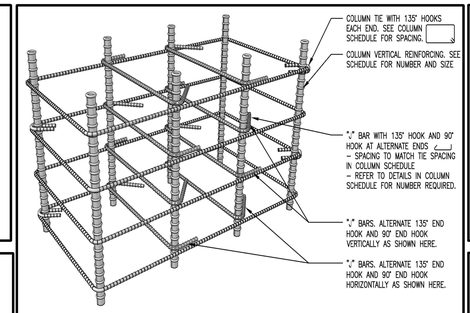
3-E **STANDARD DETAIL**
NOT TO SCALE — FOUNDATION WALL - 'SF' - STEP FOOTING



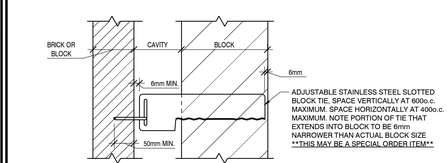
3-F **STANDARD DETAIL**
NOT TO SCALE — FOOTING - MINIMUM SPACING FOR DIFFERENT ELEVATIONS



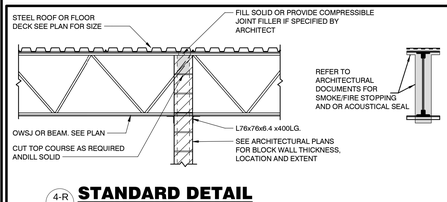
3-G **STANDARD DETAIL**
NOT TO SCALE — SLAB ON GRADE - 'CJ' - CONTROL JOINT



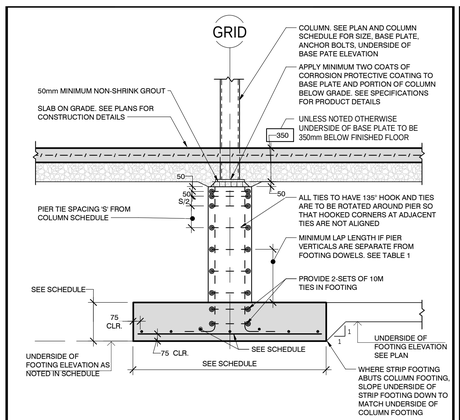
3-X **STANDARD DETAIL**
NOT TO SCALE — COLUMN REINFORCING LAYOUT



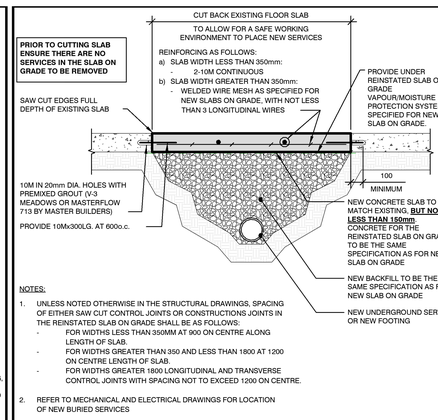
4-H **STANDARD DETAIL**
NOT TO SCALE — TIE - TYPE "A"



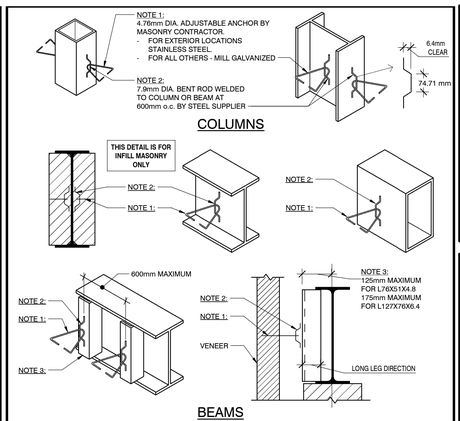
4-R **STANDARD DETAIL**
NOT TO SCALE — LATERAL SUPPORT - PERPENDICULAR TO OPEN WEB STEEL JOIST



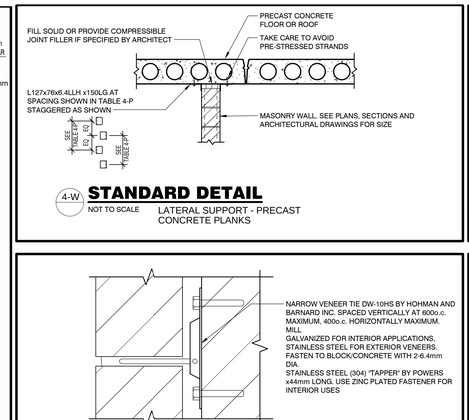
3-L **STANDARD DETAIL**
NOT TO SCALE — FOOTING - INTERIOR PIER AND FOOTING REINFORCING



3-M **STANDARD DETAIL**
NOT TO SCALE — SLAB ON GRADE - REPAIR DETAIL



4-A **STANDARD DETAIL**
NOT TO SCALE — ANCHORAGE- STEEL



4-W **STANDARD DETAIL**
NOT TO SCALE — LATERAL SUPPORT - PRECAST CONCRETE PLANKS

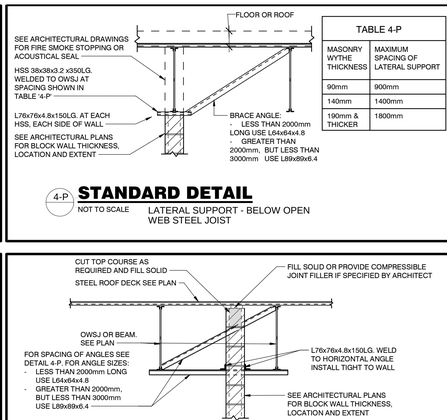
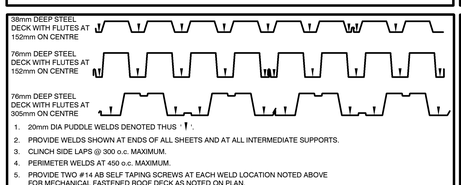


TABLE 4-P	
MASONRY WYTHE THICKNESS	MAXIMUM SPACING OF LATERAL SUPPORT
90mm	900mm
140mm	1400mm
190mm & THICKER	1800mm

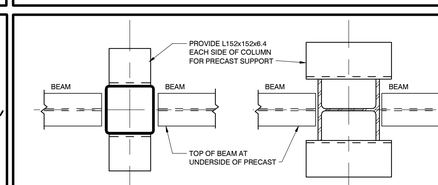
4-P **STANDARD DETAIL**
NOT TO SCALE — LATERAL SUPPORT - BELOW OPEN WEB STEEL JOIST

4-L **STANDARD DETAIL**
NOT TO SCALE — TIE - TYPE 'D'

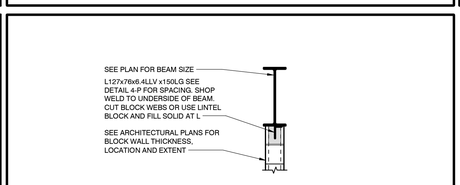
4-Q **STANDARD DETAIL**
NOT TO SCALE — LATERAL SUPPORT - PARALLEL TO OPEN WEB STEEL JOIST



5-A **STANDARD DETAIL**
NOT TO SCALE — STEEL DECK - WELDING REQUIREMENTS



5-X **STANDARD DETAIL**
NOT TO SCALE — PRECAST - SUPPORT AT STEEL COLUMNS



4-AC **STANDARD DETAIL**
NOT TO SCALE — LATERAL SUPPORT - CONCEALED

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100187653
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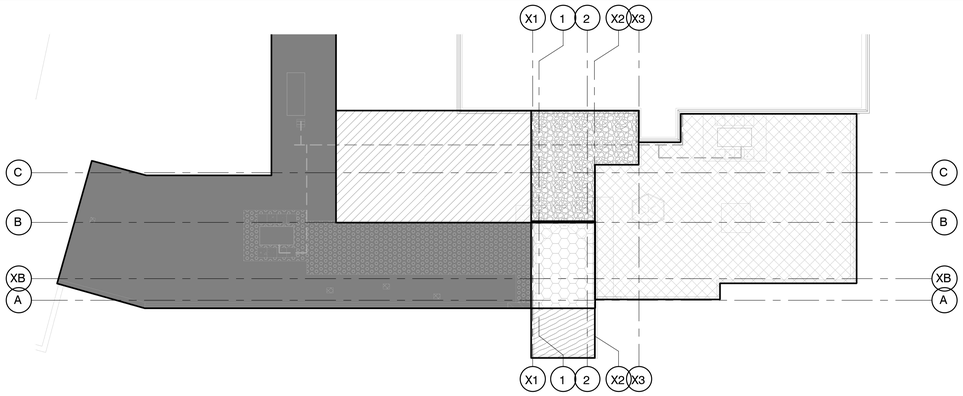
153 Montcalm Drive, Kitchener, ON, N2B 2R6

Waterloo Region District School Board

STANDARD DETAILS

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SCALE	As indicated
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ROOF LOADING PLAN

1 : 150

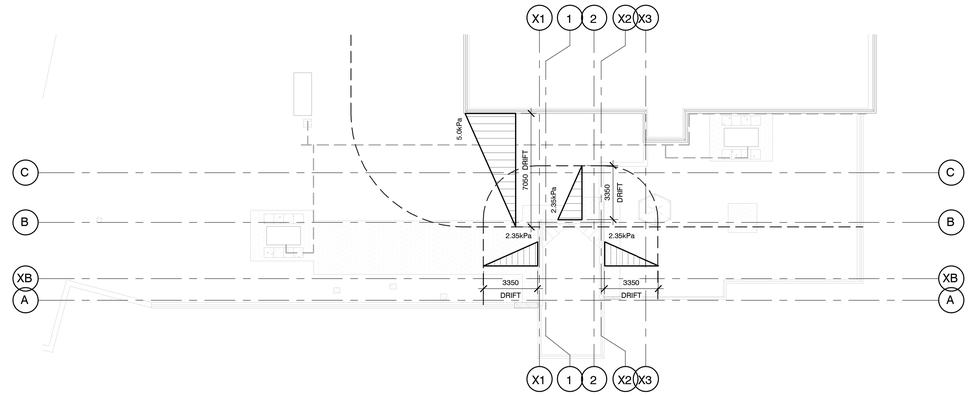
	ROOF AREA	SNOW	DEAD										TOTAL
		BASIC PLUS DRIFT SHOWN ON PLAN	BALLAST	INSULATION	MEMBRANE	GYPSUM BOARD	STEEL DECK	FRAMING	MECHANICAL ELECTRICAL	CEILING	SOFFIT	CONCRETE/RAPIDE X ROOF	TOTAL	LOAD
	6 INCH RAPIDEX ROOF	2.30	0.30	0.10	0.10	0.00	0.00	0.10	0.15	0.15	0.00	2.00	2.90	5.20
	10 INCH RAPIDEX ROOF	2.30	0.30	0.10	0.10	0.00	0.00	0.10	0.15	0.15	0.00	2.40	3.30	5.60
	203 PRECAST ROOF	2.30	0.60	0.30	0.10	0.00	0.00	0.10	0.25	0.20	0.00	2.90	4.45	6.75
	NEW CLERESTORY ROOF	2.30	0.60	0.10	0.10	0.15	0.10 (1)	0.25	0.25	0.15	0.00	0.00	1.70	4.00
	NEW CANOPY ROOF	2.30	0.60	0.10	0.10	0.15	0.10 (1)	0.25	0.00	0.00	0.6	0	1.90	4.20

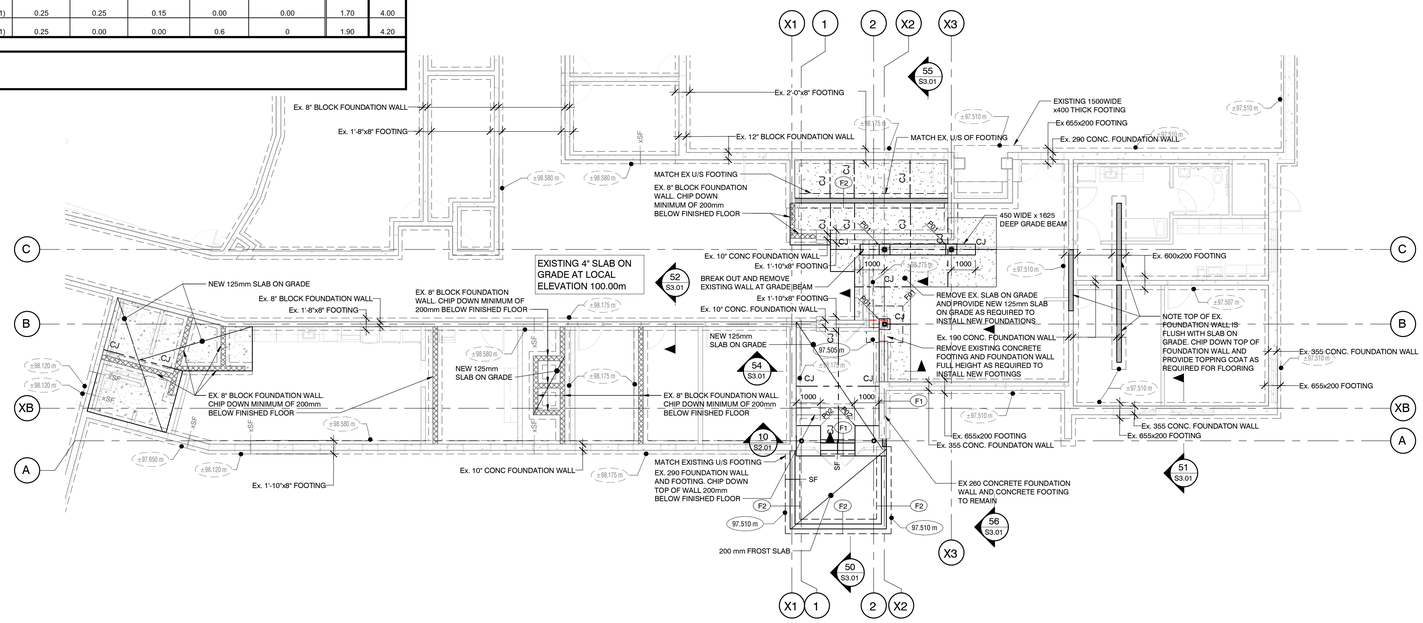
FOOTNOTES

1) 38mm STEEL ROOF DECK MIN X 0.076 MM NCT

SNOW DRIFT LOADING PLAN

1 : 150





STRIP FOOTING SCHEDULE

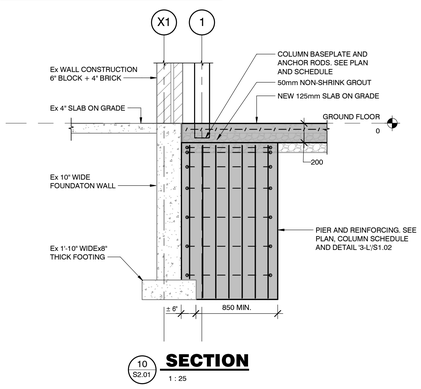
MARK	FOOTING		WALL			REMARKS
	SIZE (LxD)	REINFORCING	SIZE	REINFORCING	DOWELS	
F1	600 x 200	N/A	300	2-20M	15Mx600LG @600o.c. STAGGERED IN WALL	
F2	600 x 200	N/A	200	2-15M	15Mx500LG @600o.c. CENTRED IN WALL	

CONCRETE PIER SCHEDULE

MARK	PIER SIZE (b x h)	REINFORCING
P01	450 x 450	4-20M VERTICALS, 10M@300 TIES
P02	1250 x 1000	22-20M VERTICALS, 10-10M@300 TIES.

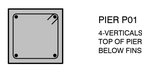
COLUMN FOOTING SCHEDULE

MARK	SIZE	REINFORCING
F01	1500x1500x250	



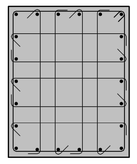
10 S2.01 **SECTION**

1 : 25



PIER P01

4-VERTICALS DEPRESS TOP OF PIER 200mm BELOW FINISHED FLOOR



PIER P02

22-VERTICALS DEPRESS TOP OF PIER 200mm BELOW FINISHED FLOOR. SEE SECTION 10/S2.01

PIERS

1 : 20

FOUNDATION PLAN

1 : 100

1. 125 SLAB ON GRADE CONSTRUCTION: UNLESS CROSSED AND NOTED OTHERWISE ON PLAN SLAB ON GRADE IS TO BE 125mm CONCRETE (150pcf) WITH 152x152 MW18.7xMW18.7 WWF ON '10 mil W.R. MEADOWS PERMINATOR' VAPOUR BARRIER, OR APPROVED ALTERNATE OVER 200mm OF GRANULAR 'A' COMPACTED TO 100% STANDARD PROCTOR MAXIMUM DRY DENSITY OVER GRANULAR 'B', THICKNESS AS REQUIRED FOR ENGINEERED FILL MAT, COMPACTED TO 100% STANDARD PROCTOR DRY DENSITY OVER PROOF ROLLED NATIVE UNDISTURBED SUBGRADE.
2. STRIP FOOTINGS TO PROJECT 300mm PAST ENDS OF WALLS UNLESS NOTED OTHERWISE.
3. CO-ORDINATE LOCATION OF SLAB ON GRADE CONSTRUCTION AND SAW CUT CONTROL JOINTS WITH ARCHITECTURAL FLOOR FINISHES AND ARCHITECTURAL FLOOR CONTROL JOINTS.
4. ELECTRICAL CONDUIT IS TO BE BURIED IN THE COMPACTED GRANULAR 'A', BELOW THE VAPOUR BARRIER. DO NOT RUN CONDUITS IN THE CONCRETE.
5. ROVIDE DOWELS FROM FOUNDATION WALLS TO REINFORCED MASONRY WALLS AND PIERS ABOVE AS NOTED IN THE MASONRY WALL SCHEDULE.
6. IN ACCORDANCE WITH THE OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS FOR CONSTRUCTION PROJECTS THE GENERAL CONTRACTOR IS RESPONSIBLE FOR THE LATERAL STABILITY OF THE EXISTING STRUCTURE INCLUDING, BUT NOT LIMITED TO, THE CONCRETE AND MASONRY FOUNDATIONS AND THE MASONRY WALLS ABOVE GRADE DURING ALL ASPECTS OF THE CONSTRUCTION OF THE ADDITION. MAINTAIN ON SITE ALL NECESSARY DOCUMENTATION SUCH AS PROFESSIONAL ENGINEER'S WRITTEN PROCEDURES OR DRAWINGS FOR ALL TEMPORARY WORKS, INCLUDING SHORING OF EXISTING FOUNDATION WALLS DURING EXCAVATION AND BACKFILL PROCEDURES DESCRIBED ABOVE.

LEGEND

'WCJ'	DENOTES WALL CONTROL JOINT (SEE DRAWING S1.02)
'CJ'	DENOTES FLOOR CONTROL JOINT (SEE DRAWING S1.02). GENERAL CONTRACTOR TO CO-ORDINATE THE FINAL LOCATION OF ALL SLAB-ON-GRADE CONTROL AND CONSTRUCTION JOINTS WITH CONTROL JOINT OR GROUT JOINTS IN FLOOR FINISHES.
'SF'	DENOTES STEPPED FOOTING (SEE DRAWING S1.2)
F?	DENOTES FOOTING AND FOUNDATION WALL TYPE. SEE SCHEDULE THIS SHEET.
U/S Footing	DENOTES LOCAL ELEVATION OF UNDERSIDE OF NEW FOOTING.
±U/S Footing	DENOTES LOCAL ELEVATION OF UNDERSIDE OF EXISTING FOOTING.

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J.A. GILLETT
100187653
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CERTIFICATE OF PRACTICE #4292

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153 Montcalm Drive, Kitchener, ON, N2B 2R6

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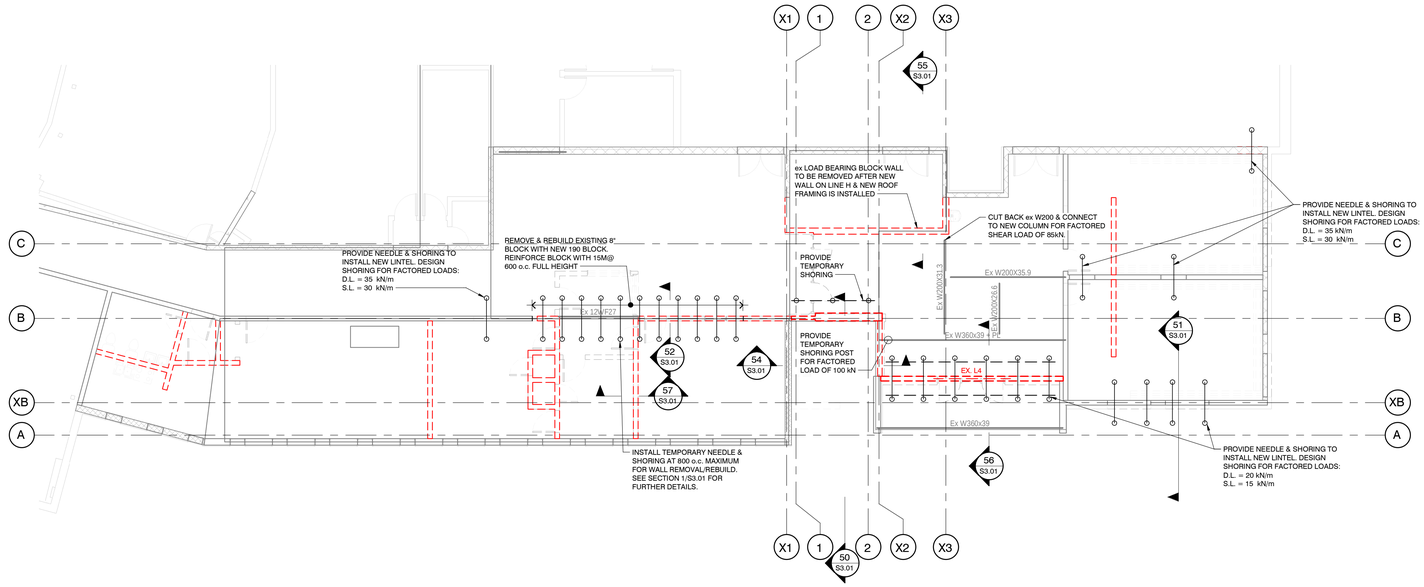
FOUNDATION PLAN

MTE

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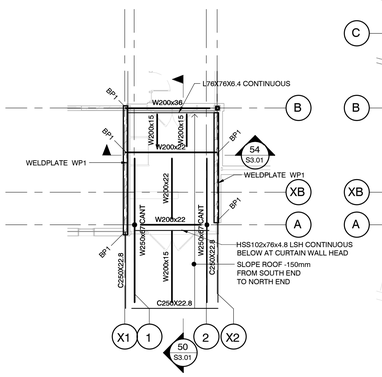
MAIN ROOF DEMOLITION

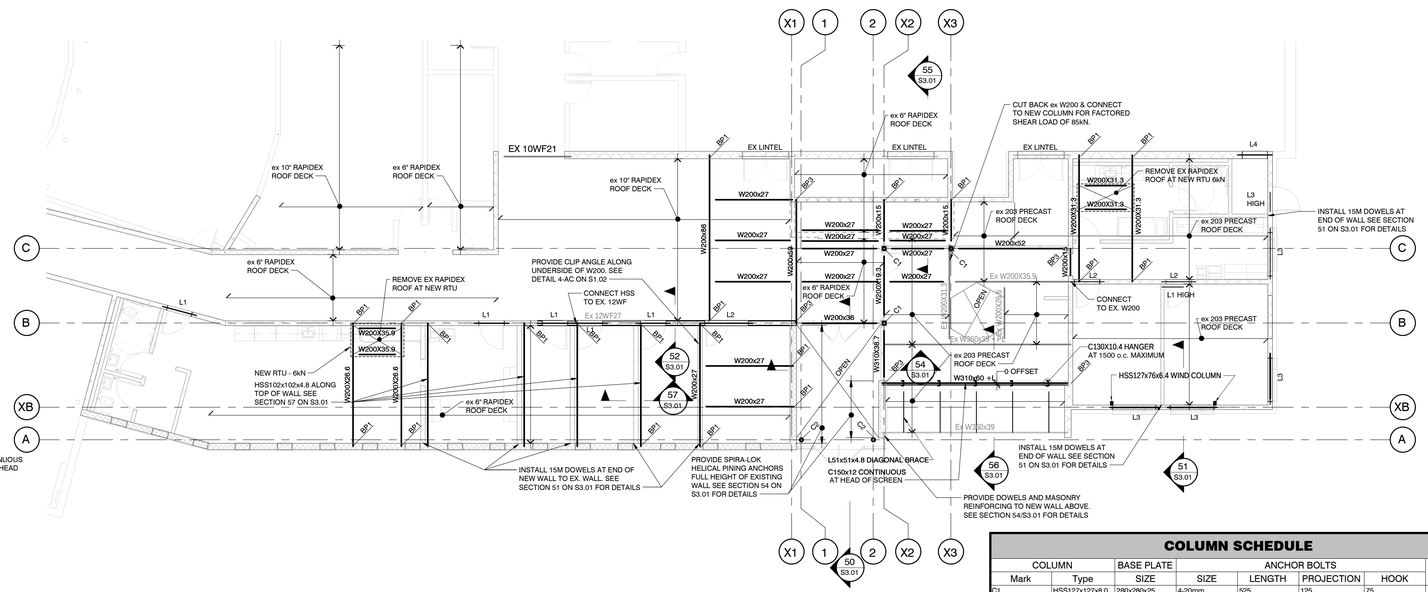
1 : 100

CANOPY FRAMING PLAN

1 : 100

1. CANOPY ROOF CONSTRUCTION TO BE 38mm DEEP STEEL ROOF DECK WITH FLUTES AT 150mm ON CENTRE, MINIMUM 0.76 NCT (CANAM P-3615 OR APPROVED ALTERNATE) SUPPORTED BY BEAMS SPACED AS SHOWN ON PLAN. WHERE POSSIBLE DECK TO BE 3 SPAN CONTINUOUS.
2. SEE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR ALL OPENINGS THROUGH ROOF DECK. PROVIDE SUITABLE DECK REINFORCING AS DESCRIBED IN THE SPECIFICATIONS OR STEEL FRAMING AS DESCRIBED IN DETAIL 5-B ON S1.3, FOR ALL DECK OPENINGS.
3. PERIMETER ANGLES SHOWN ON PLAN OR SECTION ARE TO BE CONTINUOUS UNLESS NOTED OTHERWISE. PROVIDE COMPLETE PENETRATION WELDS AT ALL SPLICES.





ROOF FRAMING PLAN

1 : 100

COLUMN SCHEDULE

COLUMN		BASE PLATE	ANCHOR BOLTS				
Mark	Type	SIZE	SIZE	LENGTH	PROJECTION	HOOK	REMARKS
C1	HSS127x127x8.0	280x280x25	4-20mm	525	125	75	
C2	HSS152x8.0	310x310x25	4-20mm	525	125	75	

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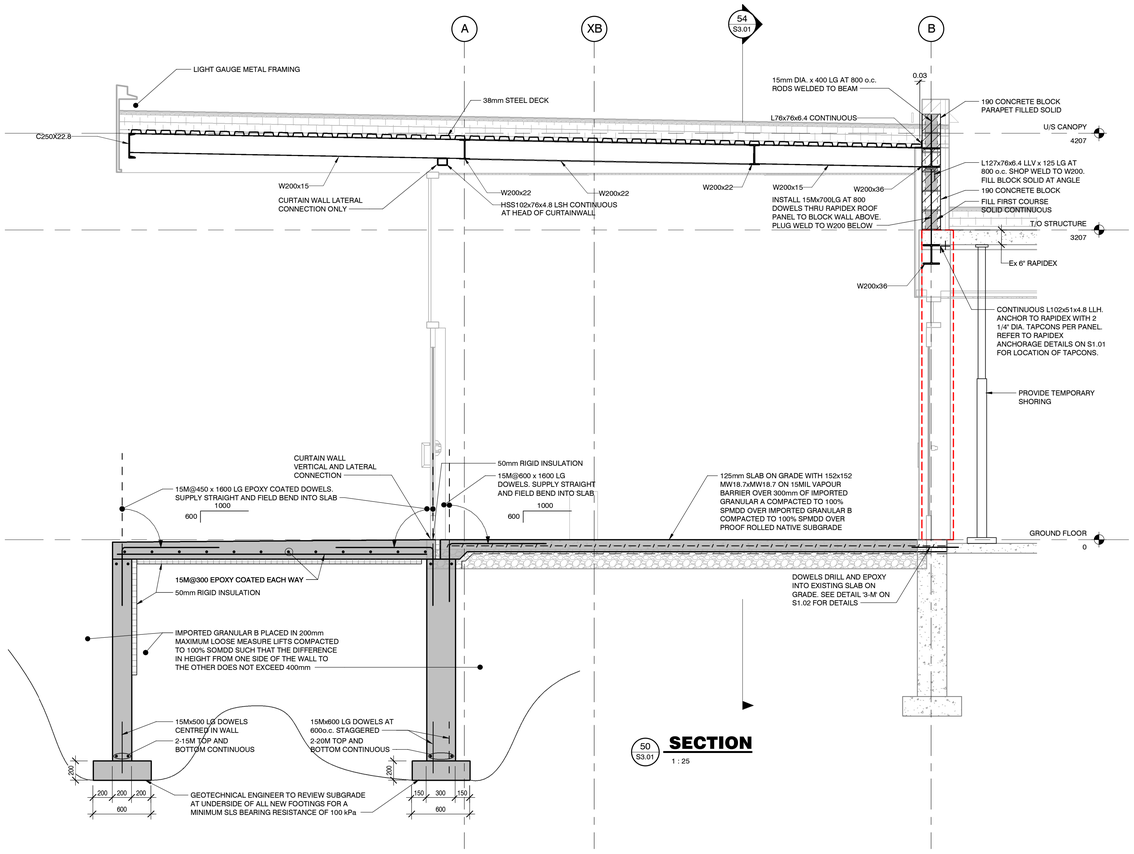
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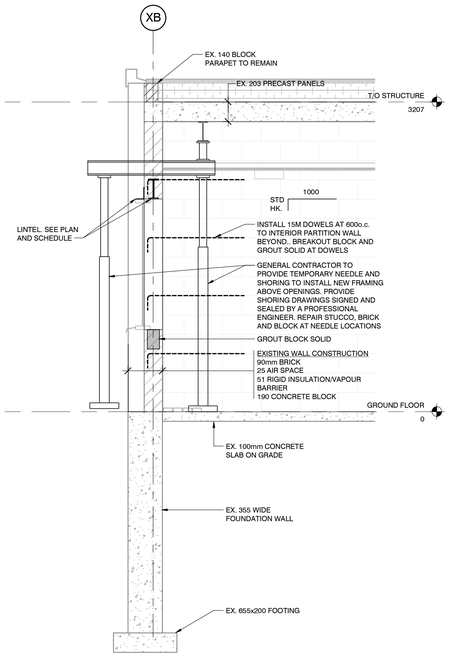
CANOPY & ROOF FRAMING PLANS

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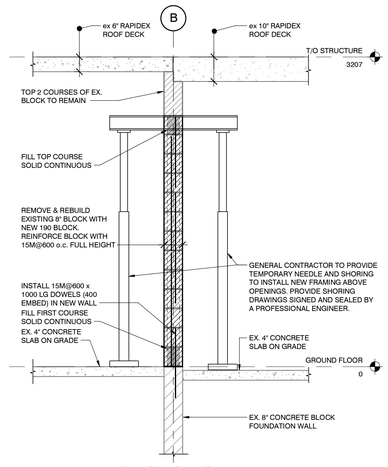
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DATE 2025-03-27	
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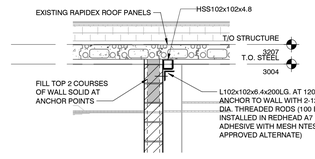
50 S3.01 **SECTION**
1 : 25



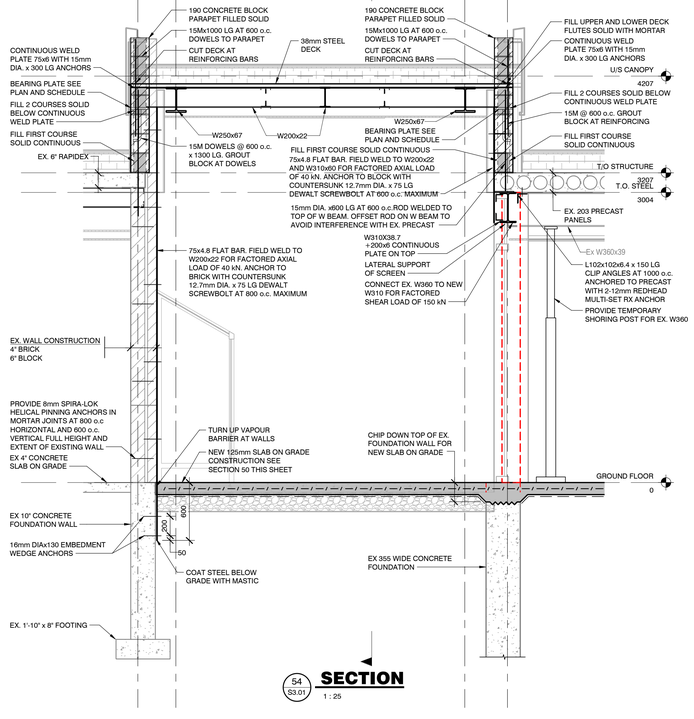
51 S3.01 **SECTION**
1 : 25



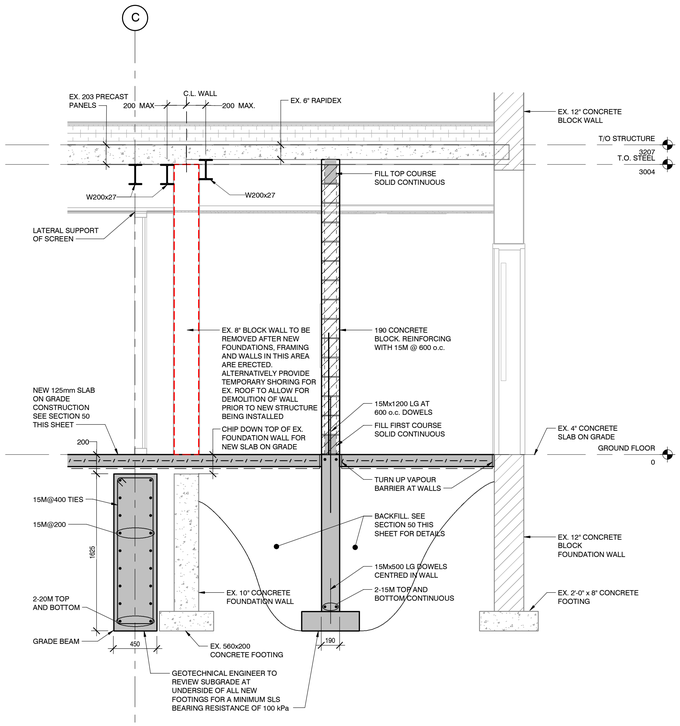
52 S3.01 **SECTION**
1 : 25



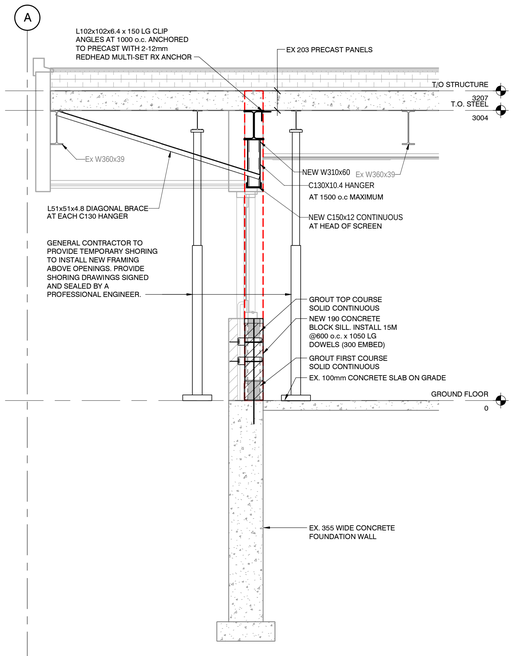
57 S3.01 **SECTION**
1 : 25



54 S3.01 **SECTION**
1 : 25



55 S3.01 **SECTION**
1 : 25



56 S3.01 **SECTION**
1 : 25

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SECTIONS

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PLUMBING FIXTURE SCHEDULE

Item	Type	Connection Sizes					Fixture		Trim		Accessories	
		HW	CW	TW	Drain	Vent	Acceptable Manufacturer	Fixture Description	Acceptable Manufacturer	Trim Description	Acceptable Manufacturer	Accessory Description
WC-1	WATER CLOSET FLUSH VALVE		1		3	1 1/2	AMERICAN STANDARD MADERA 2234.001 KOHLER WELLCOMME K-4350 MANSFIELD BALTIC 1311NS ZURN Z5655-BWL	VITREOUS CHINA, SIPHON JET, ELONGATED RIM, TOP SPUD FOR FLUSH VALVE, BOLT CAP, BOTTOM OUTLET, FLOOR-MOUNTED, 10" OR 12" ROUGH-IN, MIN 2" TRAP WAY, MAXIMUM 6 litres (1.6 gal) PER FLUSH.	DELTA 81T201-5 ZURN Z6000AV-WS1 SLOAN 111-1.6	EXPOSED, POLISHED CHROME, EXTERNALLY ADJUSTABLE, DIAPHRAGM TYPE FLUSH VALVE WITH 25 mm (1") SCREWDRIVER ANGLE STOP, OSCILLATING HANDLE, FLUSH CONNECTION AND COUPLING FOR 40 mm (1 1/2") TOP SPUD, WALL AND SPUD ESCUTCHEONS, SEAT BUMPER AND VACUUM BREAKER. FLUSH CYCLE SET FOR 6 litres (1.5 gal) PER FLUSH	SEAT: BEMIS 2155SSCT CENTOCO AM500STSCCSS	SEAT: WHITE, ELONGATED, OPEN FRONT, LESS COVER, MOLDED SOLID ANTIMICROBIAL PLASTIC, STAINLESS STEEL CHECK HINGES, STAINLESS STEEL OR SOLID BRASS INSERT POST.
WC-2	BARRIER FREE WATER CLOSET FLUSH VALVE, 16" HIGH		1		3	1 1/2	AMERICAN STANDARD MADERA 3043.001 KOHLER HIGHCREST K-4302 MANSFIELD ADRIATIC 1319 ZURN Z665-BWL	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 81T201-5 ZURN Z6000AV-WS1 SLOAN 111-1.6	BARRIER FREE, EXPOSED, POLISHED CHROME, EXTERNALLY ADJUSTABLE, DIAPHRAGM TYPE FLUSH VALVE WITH 25 mm (1") SCREWDRIVER ANGLE STOP, OSCILLATING HANDLE, FLUSH CONNECTION AND COUPLING FOR 40 mm (1 1/2") TOP SPUD, WALL AND SPUD ESCUTCHEONS, SEAT BUMPER AND VACUUM BREAKER. FLUSH CYCLE SET FOR 6 litres (1.5 gal) PER FLUSH	SEAT: BEMIS 7850TDG CENTOCO AM820STS	SEAT: WHITE, ELONGATED, OPEN FRONT WITH COVER, MOLDED SOLID ANTIMICROBIAL PLASTIC, STAINLESS STEEL CHECK HINGES, STAINLESS STEEL OR SOLID BRASS INSERT POST.
L-1	COUNTER MOUNTED LAV ELECTRONIC FAUCET	1/2	1/2		1 1/4	1 1/4	AMERICAN STANDARD COLONY 0346.403 KOHLER PENNINGTON K-2196 ZURN Z5110	VITREOUS CHINA SINK, SELF-RIMMING, WITH FRONT OVERFLOW, SOAP DEPRESSIONS, GASKET, SWIVEL CLAMPS, SEMI-OVAL, SUPPLY OPENINGS ON 100 MM (4") CENTRES. SIZES: 521 MM X 440 MM (20 1/2" X 17 5/8") OUTSIDE.	DELTA 591T0230 MOEN COMMERCIAL 8301-AC ZURN Z6915-HW6-XL	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 1.5gpm (5.7 L/MIN) @ 413 KPA (60 PSI) MAX. UNDER COUNTER PLASTIC SURFACE MOUNTED HOUSING FOR SOLENOID AND CONTROLLER. SENSOR ACTIVATES IN PRESENCE OF PERSON'S HANDS IN LAVATORY. C/W PLUG-IN TRANSFORMER.		WASTE FITTING: OPEN GRID STRAINER THERMOSTATIC MIXING VALVE UNDER LAV. DELTA R3070-MIXLF, POWERS LM490 OR EQUAL.
L-2	B.F. COUNTER MOUNTED LAV ELECTRONIC FAUCET	1/2	1/2		1 1/4	1 1/4	AMERICAN STANDARD COLONY 0346.403 KOHLER PENNINGTON K-2196 ZURN Z5110	VITREOUS CHINA SINK, SELF-RIMMING, WITH FRONT OVERFLOW, SOAP DEPRESSIONS, GASKET, SWIVEL CLAMPS, SEMI-OVAL, SUPPLY OPENINGS ON 100 MM (4") CENTRES. SIZES: 521 MM X 440 MM (20 1/2" X 17 5/8") OUTSIDE.	DELTA 591T0230 MOEN COMMERCIAL 8301-AC ZURN Z6915-HW6-XL	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 1.5gpm (5.7 L/MIN) @ 413 KPA (60 PSI) MAX. UNDER COUNTER PLASTIC SURFACE MOUNTED HOUSING FOR SOLENOID AND CONTROLLER. SENSOR ACTIVATES IN PRESENCE OF PERSON'S HANDS IN LAVATORY. C/W PLUG-IN TRANSFORMER.	INSULATION: MCGUIRE PROWRAP PWV8902 TRUEBRO LAV GUARD	INSULATION: INSULATE WASTE AND SUPPLIES WITH UL LISTED PREFORMED INSULATION SYSTEM COMPLETE WITH SEAMLESS JACKET. WASTE FITTING: NPS 32 MM (1¼") OFFSET WASTE WITH OPEN GRID STRAINER. THERMOSTATIC MIXING VALVE UNDER LAV. DELTA R3070-MIXLF, POWERS LM490 OR EQUAL.
S-1	STAINLESS STEEL SINGLE SINK	1/2	1/2		1 1/2	1 1/4	KINDRED LBS6808-1/3 NOVANNI 1017	SINK: SINGLE COMPARTMENT, LEDGE-BACK. FROM 1.0 mm (20 GAUGE) THICK TYPE 302 POLISHED STAINLESS STEEL, SELF-RIMMING, UNDERCOATED, CLAMPS. OVERALL SIZES: 520 mm X 510 mm X 200 mm (20½" X 20" X 8").	DELTA 100 ZURN Z82300-CP8 MOEN COMMERCIAL 8701	FAUCET: CHROME PLATED BRASS, WITH SWING SPOUT, AERATOR, SINGLE LEVER HANDLE, WASHERLESS CONTROLS, ACCESSORIES TO LIMIT MAXIMUM FLOW RATE TO 8.35 l/min (2.2 gpm) AT 413 kPa (60 psi).		WASTE FITTING: INTEGRAL STAINLESS STEEL BASKET STRAINER/STOPPER, TAILPIECE, CAST BRASS P-TRAP WITH CLEANOUT.
BF-1	BOTTLE FILLER		1/2		1 1/4	1 1/4	ELKAY EZWSMDK	IN-WALL BOTTLE FILLING STATION WITH MOUNTING FRAME NON-FILTERED NON-REFRIGERATED STAINLESS. C/W ANTIMICROBIAL; FILL COUNTER, HANDS FREE, LAMINAR FLOW, REAL DRAIN. ELECTRONIC BOTTLE FILLER SENSOR ACTIVATION. PRODUCT SHALL BE WALL MOUNT (INWALL FRAME/PLATE)				
FD-1	FLOOR DRAIN				NOTED	1 1/2	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				
FFD-1	FUNNEL FLOOR DRAIN				NOTED	1 1/2	ZURN ZN-415-BF MIFAB F1100-C-EG CONTOUR C2000-R5HNB WATTS FD-100-C-EG-1	COMBINATION FUNNEL FLOOR DRAIN CAST IRON BODY WITH INTEGRAL SEEPAGE PAN, CLAMPING COLLAR, NICKEL-BRONZE ADJUSTABLE HEAD STRAINER WITH INTEGRAL FUNNEL. C/W TRAP PRIMER.				
NFHB-1	NON-FREEZE WALL HYDRANT		3/4				ZURN Z-1300 MIFAB MHY-20 ANCON HY-725	RECESSED, ENCASED, ALL BRONZE CONSTRUCTION, ANTI-SYPHON, NON FREEZE WALL HYDRANT WITH NON-TURNING OPERATING ROD, FREE FLOATING COMPRESSION VALVE, INTEGRAL VACUUM BREAKER, SELF DRAINING, REPLACEABLE SEAT AND SEAT WASHER. NICKEL BRONZE BOX AND HINGED COVER WITH OPERATING KEY LOCK. NPS 20 MM (¾") HOSE OUTLET.				
RD-1	ROOF DRAIN				NOTED		ZURN ZA121-CR MIFAB R1200-BU CONTOUR C10000MP WATTS RD-100-BED-K SMITH 1015-C-R-AD	STANDARD ROOF DRAIN WITH CAST IRON BODY WITH ALUMINUM DOME, UNDER-DECK CLAMP TO SUIT ROOF CONSTRUCTION, ROOF SUMP RECEIVER, FLASHING CLAMP RING WITH INTEGRAL GRAVEL STOP.				

HYDRONIC HEATING COMPONENT SCHEDULE

CAPACITY INDICATED ON SCHEDULE REFER TO SPECIFICATION FOR CONSTRUCTION STANDARDS, ACCESSORIES AND ADDITIONAL INFORMATION.

Item	Type	Acceptable Manufacturer	Description
H1	RADIATION	ENG-A WF-1A	WALL HUNG, 16ga STEEL CABINET WITH ALL MOUNTING HARDWARE, CORNERS, LAP PIECES, END CAPS ETC. ELEMENT TO BE 4x4 ALUMINUM FINS ON 1 1/4ø COPPER TUBE WITH 50 FINS/FT. PROVIDE STAMPED GRILLE ON SLOPED TOP, OPEN BOTTOM, 18" HIGH CABINET WITH 1 ELEM ROW.
H2	CABINET FORCE FLOW HEATER (SURFACE)	ENG-A CUH SERIES	16ga STEEL CABINET WITH ROUNDED CORNERS, REMOVABLE PANELS. AND ALUMINUM FIN COIL, 3-SPEED DIRECT DRIVE DOUBLE WIDTH CENTRIFUGAL FANS, AND WASHABLE FILTER. STAMPED GRILLES ON FRONT TOP INLET & FRONT BOTTOM OUTLET. SURFACE MOUNTED ON WALL.
H3	HORIZONTAL UNIT HEATER	ENG-A H SERIES	HORIZONTAL, HUNG, 16ga STEEL CABINET WITH ROUNDED CORNERS, AND ALUMINUM FIN COIL, DIRECT DRIVE PROPELLER TYPE FAN WITH FAN GUARD, AND ADJUSTABLE DIRECTIONAL DISCHARGE LOUVRE BLADES.

GENERAL HEATING COMPONENT NOTES:
1. ACCEPTABLE MANUFACTURERS: ENGINEERED AIR, SIGMA, RITTLING, SLANT-FIN, ROSEMEX, DUNHAM-BUSH
2. TEMPERATURE RATINGS: EWT-140°F, LWT-120°F, EAT-68°F
3. SIZES & HEAT CAPACITIES ARE NOTED ON THE FLOOR PLANS
4. RAD, CONVECTOR, & CABINET HEATER CABINET FINISHES ARE TO BE FACTORY PRIME COATED SELECTED FROM STANDARD MANUFACTURER'S COLOURS UNLESS OTHERWISE NOTED.
5. UNIT HEATERS FINISH ARE FACTORY APPLIED BAKED ON ENAMEL SELECTED FROM STANDARD MANUFACTURER'S COLOURS.

GRILLE SCHEDULE

CAPACITY INDICATED ON SCHEDULE REFER TO SPECIFICATION FOR CONSTRUCTION STANDARDS, ACCESSORIES AND ADDITIONAL INFORMATION.

Item	Type	Equalizing Grid	Volume Damper	Acceptable Manufacturer	Description
D1	SQUARE CEILING DIFFUSER	YES	NONE	EH PRICE SCDA	MULTICONE, FULLY ADJUSTABLE, 24x24, STEEL CEILING DIFFUSER W/ROUND NECK. SUITABLE FOR LAY-IN T-BAR CEILING, OR DRYWALL CEILING WHEN C/W FRAME.
R1	CEILING RETURN GRILLE (NON-DUCTED)	NO	NONE	EH PRICE 80-CH	1/2x1/2x1/2 ALUMINUM EGGCRATE CORE, C/W CHANNEL BORDER FOR LAY-IN T-BAR CEILING.
E1	EXHAUST GRILLE (DUCTED)	NO	NONE	EH PRICE 80-FA	1/2x1/2x1/2 ALUMINUM EGGCRATE CORE, C/W 1 1/4" FLAT BORDER & SCREWED FASTENING FOR SURFACE MOUNTING.

GENERAL DIFFUSER/GRILLE NOTES:
1. ACCEPTABLE MANUFACTURERS: EH PRICE, NAILOR, TITUS, KRUEGER, CARNES, METALAIRE, TUTTLE & BAILEY
2. GRILLE COLOURS ARE SELECTED BY ARCHITECT FROM STANDARD COLOUR CHART, UNLESS OTHERWISE NOTED.
3. PAINT INTERIOR OF DUCTWORK BEHIND GRILLE MATT BLACK (WHERE VISIBLE THRU GRILLE).

FAN SCHEDULE

CAPACITY INDICATED ON SCHEDULE REFER TO SPECIFICATION FOR CONSTRUCTION STANDARDS, ACCESSORIES AND ADDITIONAL INFORMATION.

Item	Type	Capacity cfm	ESP in wc	Fan Speed rpm	Motor hp	Motor Voltage	Acceptable Manufacturer	Description
EF-4	CEILING EXHAUST FAN	100	0.20	640	Fhp	120/1/60	BROAN L100	ACOUSTICALLY INSULATED STEEL HOUSING, CENTIFUGAL BLOWER WHEEL, 90° DISCHARGE OUTLET W/BACKDRAFT DAMPER, C/W WHITE PAINTED ENAMEL STEEL GRILLE, VIBRATION ISOLATORS. 1.1 SONES
EF-5	CEILING EXHAUST FAN	100	0.20	640	Fhp	120/1/60	BROAN L100	ACOUSTICALLY INSULATED STEEL HOUSING, CENTIFUGAL BLOWER WHEEL, 90° DISCHARGE OUTLET W/BACKDRAFT DAMPER, C/W WHITE PAINTED ENAMEL STEEL GRILLE, VIBRATION ISOLATORS. 1.1 SONES
EF-6	FLOOR MOUNTED UTILITY EXHAUST FAN	5400	2.0	1179	3.0	208/3/60	GREENHECK USF-22-B6 (ARRANGEMENT: CCW TH)	INDOOR CENTRIFUGAL UTILITY BLOWER WITH 16GA HOUSING, BACKWARD INCLINED FAN, BELT DRIVE, DISCHARGE ARRANGEMENT AS NOTED. REMOTE VFD.
EF-7	FLOOR MOUNTED UTILITY EXHAUST FAN	5100	2.0	1153	3.0	208/3/60	GREENHECK USF-22-B6 (ARRANGEMENT: CCW TH)	INDOOR CENTRIFUGAL UTILITY BLOWER WITH 16GA HOUSING, BACKWARD INCLINED FAN, BELT DRIVE, DISCHARGE ARRANGEMENT AS NOTED. REMOTE VFD.
EF-8	FLOOR MOUNTED UTILITY EXHAUST FAN	200	2.0	2331	1/4	208/3/60	GREENHECK IP-5-01 (ARRANGEMENT: CW TAU)	INDOOR CENTRIFUGAL UTILITY BLOWER WITH 16GA HOUSING, BACKWARD INCLINED FAN, BELT DRIVE, DISCHARGE ARRANGEMENT AS NOTED. REMOTE VFD.
EF-9	ROOF EXHAUST FAN	1800	2.0	1569	1.5	208/3/60	GREENHECK CUBE-240XP	SPUN ALUMINUM MOTOR COVER & FAN SHROUD, UPBLAST, W/BELT DRIVE CENTRIFUGAL BACKWARD INCLINED NON-STICK FAN, GALV BIRD SCREEN, VENTED & INSULATED EXTENDED ROOF CURB.
EF-10	ROOF EXHAUST FAN	600	2.0	2015	3/4	208/3/60	GREENHECK CUBE-160XP	SPUN ALUMINUM MOTOR COVER & FAN SHROUD, UPBLAST, W/BELT DRIVE CENTRIFUGAL BACKWARD INCLINED NON-STICK FAN, GALV BIRD SCREEN, VENTED & INSULATED EXTENDED ROOF CURB.
EF-11	EXISTING ROOF MOUNTED EXHAUST FAN (RELABELED FROM EF-2)							
EF-12	ROOF EXHAUST FAN	1525	2.0	1500	1.5	208/3/60	GREENHECK CUBE-240XP	SPUN ALUMINUM MOTOR COVER & FAN SHROUD, UPBLAST, W/BELT DRIVE CENTRIFUGAL BACKWARD INCLINED NON-STICK FAN, GALV BIRD SCREEN, VENTED & INSULATED EXTENDED ROOF CURB.
EF-13	RANGEHOOD (DUCTED)	210	0.20	3 SPD	Fhp	120/1/60	BROAN SAHALE BKDF1	CONTOURED STEEL HOUSING, FULLY ENCLOSED BOTTOM, TOP DISCHARGE, CENTIFUGAL BLOWER WHEELS, WASHABLE ALUMINUM FILTERS, 3 SPEED BLOWER CONTROL, PROVIDE 2 LEVEL LED LIGHTING. COLOUR SELECTED BY CONSULTANT.
EF-14	CEILING EXHAUST FAN	400	0.20	735	Fhp	120/1/60	BROAN L400	ACOUSTICALLY INSULATED STEEL HOUSING, DUAL CENTIFUGAL BLOWER WHEELS, 90° DISCHARGE OUTLET W/BACKDRAFT DAMPER, C/W WHITE PAINTED ENAMEL STEEL GRILLE, VIBRATION ISOLATORS. 2.5 SONES

GENERAL FAN NOTES:
1. ACCEPTABLE MANUFACTURERS: GREENHECK, PENN-BARRY, COOK, JENCO, CARNES, ACME, TWIN CITY, AEROVENT. (CEILING FANS: BROAN, GREENHECK, ZONEX, FANTECH) (RANGE HOODS: BROAN, NUTONE)
2. PROVIDE 24" TALL PREFABRICATED, INSULATED ROOF CURB FOR ALL ROOF MOUNTED FANS.

PACKAGED HEAT PUMP HVAC UNIT SCHEDULE

CAPACITY INDICATED ON SCHEDULE REFER TO SPECIFICATION FOR CONSTRUCTION STANDARDS, ACCESSORIES AND ADDITIONAL INFORMATION.

Item	Type	Nominal Capacity					ESP in wc	Motor hp	Cooling				Heating			Electrical Data			Acceptable Manufacturer	Notes
		tons	Outdoor Air cfm	Supply Air cfm	HP COP @ 47°F	HP COP @ 17°F			Refrig. Type	Total Cap. MBH	Sens. Cap. MBH	Ent db/wb °F	LVG db/wb °F	High Gas Input MBH	HP Output @ 47°F MBH	HP Output @ 17°F MBH	Voltage	MCA	MOCP		
HVAC-1	PACKAGED ROOFTOP HVAC UNIT	4	–	1600	3.9	2.4	1.0	1.5	R-454B	44.5	36.0	75.0/ 63.0	53.4/ 53.1	108.0	44.0	26.0	208/3/60	25	35	LENNOX LDT048H4E	HIGH HEAT, DOWN DISCHARGE & RETURN.
HVAC-2	PACKAGED ROOFTOP HVAC UNIT	4	–	1600	3.9	2.4	1.0	1.5	R-454B	44.5	36.0	75.0/ 63.0	53.4/ 53.1	108.0	44.0	26.0	208/3/60	25	35	LENNOX LDT048H4E	HIGH HEAT, DOWN DISCHARGE & RETURN.

GENERAL HVAC UNIT NOTES:
1. ACCEPTABLE MANUFACTURERS: LENNOX, VALENT, DAIKIN
2. UNITS HAVE ELECTRIC AIR SOURCE HEAT PUMP HEATING, 2 STAGE NATURAL GAS BACKUP HEAT, 2 STAGE DX COOLING PLUS ECONOMIZER, DIRECT DRIVE FANS
3. PROVIDE STANDARD INSULATED 24" HIGH ROOF CURB MAX 85dB SOUND RATING, STAINLESS STEEL GAS HEAT EXCHANGER, FIELD INSTALLED DISCONNECT & GFI SUPPLIED BY ELEC DIVISION, CONDENSER COIL GUARD, STAINLESS STEEL FLUE GAS EXTENSION, FREE COOLING ECONOMIZER/CO^2 CONTROLLED OUTDOOR AIR VIA TAC/DISTECH BAS SYSTEM, AND ALL HOODS & INLET SCREENS, AND SETS MERV 13 DISPOSABLE FILTERS. CONTRACTOR TO FIELD INSTALL STAINLESS STEEL OR GALVANIZED HINGED SERVICE PANELS SUITABLE FOR 2" PADLOCK LATCHES PROVIDED BY OWNER. BLOWER SECTION C/W INTEGRAL VIBRATION ISOLATION. DYNAMICALLY BALANCED FAN, DRIVES AND PREMIUM EFFICIENCY MOTORS. PROVIDE REFRIGERATION LEAK DETECTION SYSTEM.
4. CONTROLS: ELECTRICAL/MECHANICAL SYSTEM CONTROLS BY BAS CONTRACTOR, PROVIDE INTEGRAL CONTROLLER MATCHED TO BAS MANUFACTURER.
5. CONTRACTOR TO PROVIDE FULL 2 YEAR COVERAGE OF MANUFACTURER STANDARD WARRANTY.

MECHANICAL LEGEND

Item	Description	Item	Description
	ITEM TO BE REMOVED		SCREWED OR WELDED PIPE CAP
	CUT EXISTING & CONNECT NEW PIPING	NO	NORMALLY OPEN
	FLOW DIRECTION	NC	NORMALLY CLOSED
	POTABLE COLD WATER		PLUG VALVE
	POTABLE HOT WATER		BALL VALVE
SAN-EX	EXISTING SAN ABOVE FLOOR		BUTTERFLY VALVE
SAN-EX	EXISTING SAN BELOW FLOOR		GATE VALVE
SAN	SANITARY ABOVE FLOOR		VALVE ON RISER
SAN	SANITARY BELOW FLOOR	BV	BALANCING VALVE
STM-EX	EXISTING STM ABOVE FLOOR	TCV	2-WAY TEMPERATURE CONTROL VALVE
STM-EX	EXISTING STM BELOW FLOOR	TCV	3-WAY TEMPERATURE CONTROL VALVE
STM	STORM ABOVE FLOOR	FHC	FIRE HOSE CABINET
STM	STORM BELOW FLOOR		WATER METER
CD	CONDENSATE DRAIN	CO	FLOOR CLEANOUT
V	VENT	CO	LINE CLEANOUT
P	STANDPIPE	PRV	PRESSURE REDUCING VALVE
HWS	HEATING WATER SUPPLY	T	THERMOSTAT (WITH GUARD WHERE INDICATED)
HWR	HEATING WATER RETURN	RA T	REVERSE ACTING THERMOSTAT
G	NATURAL GAS		SUPPLY AIR DUCT
HPG	HIGH PRESSURE NATURAL GAS		RETURN/EXHAUST AIR DUCT
RL	REFRIGERANT LIQUID		ACOUSTIC DUCT LINING
RS	REFRIGERANT SUCTION		THERMAL INSULATION
EXPOSED / FLUSH MTD	FIRE DEPT CONNECTION		BRANCH LINE SPIN-IN COLLAR C/W BALANCING DAMPER
FD	FLOOR DRAIN	BD	BALANCING DAMPER
P	TRAP PRIMER		MOTORIZED DAMPER
	TEE CONNECTION	FD	FIRE DAMPER
C	PIPE DOWN		RECTANGULAR DUCTWORK
	PIPE UP		RIGID ROUND DUCT
	FLEXIBLE CONNECTION		FLEXIBLE ROUND DUCT
	REDUCER/INCREASER	Type / Size / Capacity	DIFFUSER/GRILLE SIZE (imp), TYPE & CAPACITY (cfm)
	CHECK VALVE	Type / Size / Capacity	HYDRONIC HEATING SIZE, TYPE & CAPACITY
	BALL DRIP CHECK VALVE	EXP	EXPANSION JOINT
	DOUBLE CHECK BACKFLOW PREVENTOR	RIC	RETURN IN CABINET
	REDUCED PRESSURE BACKFLOW PREVENTOR	AFF	ABOVE FINISHED FLOOR
	UNION	AFR	ABOVE FINISHED ROOF
	STRAINER	EX	EXISTING DUCT (SIZE AS INDICATED)
	PRESSURE & TEMPERATURE TEST STATION		TRANSFER DUCT (SIZE AS INDICATED)
	DRAIN (SCHEMATICS)	CTE	CONNECT TO EXISTING

GENERAL NOTES

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

B. THIS CONTRACTOR SHALL TRACK REVISIONS ON SITE AND SUBMIT AS-BUILTS TO CONSULTANT TO DIGITIZE. REFER TO SPECIFICATION 20 02 51.

C. 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 MIN 14'-0" FROM ANY AIR INLET (25'-0" FOR LONG TERM CARE/HOSPITALS). INSTALL VENT PIPING HIGH IN JOIST SPACE.

D. WHERE DUCTWORK PENETRATES CORRIDOR WALL, CENTER DUCT(S) BETWEEN OWSJ.

E. CO-ORDINATE WITH THE GENERAL CONTRACTOR ANY OWSJ BRIDGING/CROSS BRACING RELOCATION OR REMOVAL/REPLACEMENT REQUIRED FOR INSTALLATION OF DUCTWORK.

F. CONTRACTOR TO LOCATE ISOLATION VALVES / FREEZE PIPING / OR OTHERWISE DRAIN SYSTEMS TO ALLOW PROPOSED WORK TO PROCEED. REFILL SYSTEMS AS INDICATED.

G. 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)
- BACKFLOW TEST CERTIFICATE(S) FOR ALL TESTABLE DEVICES
- COPY OF MANDATORY TSSA/CSA-B149 GAS PRESSURE TEST TAG
- NFPA-14 STANDPIPE CONTRACTOR'S MATERIAL & TEST CERTIFICATE
- LETTER FROM CONTRACTOR VERIFYING THAT ALL REFRIGERATION LEAK DETECTION SYSTEMS AND THEIR INTERLOCKS TO DOWNSTREAM DEVICES HAVE BEEN INSTALLED AND TESTED.

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

NO.	DESCRIPTION	DATE
1	ISSUED FOR TENDER	03.27.25

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.
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LICENSED PROFESSIONAL ENGINEER
A.D.R. DEMAITER
100508548
PROVINCE OF ONTARIO
Mar 27/25

CRESTVIEW OFFICE RENOVATION & HVAC UPGRADE

153 Montcalm Drive, Kitchener, ON, N2B 2R6

Waterloo Region District School Board

SCHEDULES 1

DEI Consulting Engineers
MECHANICAL | ELECTRICAL | AQUATIC
55 Northland Road, Waterloo, ON N2V 1Y8
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Website: deiassociates.ca

SCALE	As indicated
PROJECT	24113
DATE	March 2025
DRAWN	CB
CHECKED	AD
DRAWING	M01
PRINT DATE	-
REVIT FILE	-

UNIT VENTILATOR SCHEDULE

Item	Type	Capacity		Min. O.A. Position (cfm)	SP in. wc	Size hp	Heating					Cooling			Electrical			Manufacturer	Model	Remarks
		tons	cfm				Medium	Coil Rows	EWT °F	LWT °F	Capacity MBH	GPM	Medium	Total Cap Mbh	Sens. Cap Mbh	Voltage	MCA	MOCP			
UV-8	VERTICAL UNIT VENTILATOR	2.5	1000	400	0.3	1/3	WATER	2	140	120	68.9	6.9	DX	33.2	24.9	120/1/60	6.3	15	DAIKIN	UAVS9-H10	3-SPEED ECM MOTOR, FACE & BYPASS HEATING COIL, 3-WAY VALVE AT HEATING COIL, DX COIL WITH TXV BYPASS (TO SUIT HEAT PUMP OPERATION), 250MM INSULATED REAR CHASE, DIGITAL READY CONTROLS PACKAGE, REAR OA INTAKE DUCT COLLAR, C/W ADAPTOR SLEEVE TO MATCH EXISTING WALL OPENING DIMENSIONS, TWO (2) FULL-DEPTH END PANELS (CUT-OUTS TO BE COMPLETED ON SITE TO SUIT DRAFTSTOP DOWNDRAFT PROTECTION FEATURE & PIPING TUNNEL) C/W MOUNTING HARDWARE & KICKPLATE (CONFIRM CUT-OUTS WITH MANUFACTURER), BOTTOM FRONT RA INLET GRILLE & DRAFTSTOP DOWNDRAFT PROTECTION RA INLET, UNIT MOUNTED DISCONNECT (INSIDE ENCLOSURE), HEATING COIL FREEZESTAT (FACTORY INSTALLED & WIRED), ADJUSTABLE LEG LEVELLERS, PUTTY BEIGE CABINET COLOUR, TAMPER-RESISTANT FASTENERS ON ALL ACCESS DOORS, REPLACEMENT FILTERS C/W ONE EXTRA SET, SECONDARY OVERFLOW DRAIN CONNECTION FOR CONDENSATE PAN, ADJUSTABLE 50mm BASE TO RAISE UNIT, SET FAN TO MEDIUM SPEED. PROVIDE A DECORATIVE EXTERIOR ALUMINUM WALL LOUVER CONSTRUCTION OF HEAVY GAUGE ALUMINUM W/ RECTANGULAR PUNCHED HOLES TO MATCH LOUVER BLADES SPACING TO MAXIMIZE THE AIR OPENING & PROTECT LOUVER BLADES.
UV-9	VERTICAL UNIT VENTILATOR	2.5	1000	400	0.3	1/3	WATER	2	140	120	68.9	6.9	DX	33.2	24.9	120/1/60	6.3	15	DAIKIN	UAVS9-H10	
UV-10	VERTICAL UNIT VENTILATOR	2.5	1000	400	0.3	1/3	WATER	2	140	120	68.9	6.9	DX	33.2	24.9	120/1/60	6.3	15	DAIKIN	UAVS9-H10	
UV-11	VERTICAL UNIT VENTILATOR	2.5	1000	400	0.3	1/3	WATER	2	140	120	68.9	6.9	DX	33.2	24.9	120/1/60	6.3	15	DAIKIN	UAVS9-H10	
UV-12	VERTICAL UNIT VENTILATOR	2.5	1000	400	0.3	1/3	WATER	2	140	120	68.9	6.9	DX	33.2	24.9	120/1/60	6.3	15	DAIKIN	UAVS9-H10	
UV-13	VERTICAL UNIT VENTILATOR	2.5	1000	400	0.3	1/3	WATER	2	140	120	68.9	6.9	DX	33.2	24.9	120/1/60	6.3	15	DAIKIN	UAVS9-H10	
UV-14	VERTICAL UNIT VENTILATOR	2.5	1000	400	0.3	1/3	WATER	2	140	120	68.9	6.9	DX	33.2	24.9	120/1/60	6.3	15	DAIKIN	UAVS9-H10	
UV-15	VERTICAL UNIT VENTILATOR	2.5	1000	400	0.3	1/3	WATER	2	140	120	68.9	6.9	DX	33.2	24.9	120/1/60	6.3	15	DAIKIN	UAVS9-H10	
UV-16	VERTICAL UNIT VENTILATOR	2.5	1000	400	0.3	1/3	WATER	2	140	120	68.9	6.9	DX	33.2	24.9	120/1/60	6.3	15	DAIKIN	UAVS9-H10	
UV-17	VERTICAL UNIT VENTILATOR	2.5	1000	400	0.3	1/3	WATER	2	140	120	68.9	6.9	DX	33.2	24.9	120/1/60	6.3	15	DAIKIN	UAVS9-H10	
UV-18	VERTICAL UNIT VENTILATOR	2.5	1000	400	0.3	1/3	WATER	2	140	120	68.9	6.9	DX	33.2	24.9	120/1/60	6.3	15	DAIKIN	UAVS9-H10	
UV-19	VERTICAL UNIT VENTILATOR	2.5	1000	400	0.3	1/3	WATER	2	140	120	68.9	6.9	DX	33.2	24.9	120/1/60	6.3	15	DAIKIN	UAVS9-H10	
UV-20	VERTICAL UNIT VENTILATOR	2.5	1000	400	0.3	1/3	WATER	2	140	120	68.9	6.9	DX	33.2	24.9	120/1/60	6.3	15	DAIKIN	UAVS9-H10	
UV-21	VERTICAL UNIT VENTILATOR	2.5	1000	400	0.3	1/3	WATER	2	140	120	68.9	6.9	DX	33.2	24.9	120/1/60	6.3	15	DAIKIN	UAVS9-H10	
UV-22	VERTICAL UNIT VENTILATOR	2.5	1000	400	0.3	1/3	WATER	2	140	120	68.9	6.9	DX	33.2	24.9	120/1/60	6.3	15	DAIKIN	UAVS9-H10	
UV-23	VERTICAL UNIT VENTILATOR	2.5	1000	400	0.3	1/3	WATER	2	140	120	68.9	6.9	DX	33.2	24.9	120/1/60	6.3	15	DAIKIN	UAVS9-H10	
UV-24	VERTICAL UNIT VENTILATOR	2.5	1000	400	0.3	1/3	WATER	2	140	120	68.9	6.9	DX	33.2	24.9	120/1/60	6.3	15	DAIKIN	UAVS9-H10	
UV-25	VERTICAL UNIT VENTILATOR	2.5	1000	400	0.3	1/3	WATER	2	140	120	68.9	6.9	DX	33.2	24.9	120/1/60	6.3	15	DAIKIN	UAVS9-H10	
UV-26	VERTICAL UNIT VENTILATOR	2.5	1000	400	0.3	1/3	WATER	2	140	120	68.9	6.9	DX	33.2	24.9	120/1/60	6.3	15	DAIKIN	UAVS9-H10	
UV-27	VERTICAL UNIT VENTILATOR	2.5	1000	400	0.3	1/3	WATER	2	140	120	68.9	6.9	DX	33.2	24.9	120/1/60	6.3	15	DAIKIN	UAVS9-H10	

* ACCEPTABLE MANUFACTURERS: DAIKIN, TRANE, ENGINEERED AIR

NOTE: CONTRACTOR RESPONSIBLE TO PROVIDE TEMPORARY HEAT IN ROOMS (TO SATISFACTION OF OWNER & CONSULTANT) IF UNIT VENTILATORS ARE NOT INSTALLED IN TIME FOR HEATING SEASON. EXISTING UNITS CAN REMAIN IN PLACE UNTIL NEW UNITS DELIVERED TO SITE.

SHOP DRAWING SUBMISSION/UNIT DELIVERY REQUIREMENTS

- SHOP DRAWINGS SHALL BE SUBMITTED TO THE CONSULTANT WITHIN ONE (1) WEEK OF AWARD OF CONTRACT.
- SHOP DRAWINGS SHALL BE REVIEWED/RETURNED BY THE CONSULTANT WITHIN ONE (1) WEEK OF SUBMISSION.
- CONTRACTOR TO ORDER EQUIPMENT FROM MANUFACTURER IMMEDIATELY UPON RETURNED/APPROVED SHOP DRAWINGS.

AIR COOLED HEAT PUMP SCHEDULE

Item	Type	Tons	Capacity MBH	Compressor			Refrig.	Sat. Suction Temp. °F	No. of Cond. Fans	Electrical			Unit Weight lbs	Manufacturer	Model	Remarks
				Type	No.	No. Stages				Voltage	MCA	MOCP				
CU-8	OUTDOOR ROOF MOUNTED	3.0	36	SCROLL	1	1	R32	52	1	208/1/60	21.5	35	250±	DAIKIN	DH4SEA3610	PROVIDE CONTINUOUS SUPPORT AS PER DETAIL. CONNECT TO UV-8.
CU-9	OUTDOOR ROOF MOUNTED	3.0	36	SCROLL	1	1	R32	52	1	208/1/60	21.5	35	250±	DAIKIN	DH4SEA3610	PROVIDE CONTINUOUS SUPPORT AS PER DETAIL. CONNECT TO UV-9.
CU-10	OUTDOOR ROOF MOUNTED	3.0	36	SCROLL	1	1	R32	52	1	208/1/60	21.5	35	250±	DAIKIN	DH4SEA3610	PROVIDE CONTINUOUS SUPPORT AS PER DETAIL. CONNECT TO UV-10.
CU-11	OUTDOOR ROOF MOUNTED	3.0	36	SCROLL	1	1	R32	52	1	208/1/60	21.5	35	250±	DAIKIN	DH4SEA3610	PROVIDE CONTINUOUS SUPPORT AS PER DETAIL. CONNECT TO UV-11.
CU-12	OUTDOOR ROOF MOUNTED	3.0	36	SCROLL	1	1	R32	52	1	208/1/60	21.5	35	250±	DAIKIN	DH4SEA3610	PROVIDE CONTINUOUS SUPPORT AS PER DETAIL. CONNECT TO UV-12.
CU-13	OUTDOOR ROOF MOUNTED	3.0	36	SCROLL	1	1	R32	52	1	208/1/60	21.5	35	250±	DAIKIN	DH4SEA3610	PROVIDE CONTINUOUS SUPPORT AS PER DETAIL. CONNECT TO UV-13.
CU-14	OUTDOOR ROOF MOUNTED	3.0	36	SCROLL	1	1	R32	52	1	208/1/60	21.5	35	250±	DAIKIN	DH4SEA3610	PROVIDE CONTINUOUS SUPPORT AS PER DETAIL. CONNECT TO UV-14.
CU-15	OUTDOOR ROOF MOUNTED	3.0	36	SCROLL	1	1	R32	52	1	208/1/60	21.5	35	250±	DAIKIN	DH4SEA3610	PROVIDE CONTINUOUS SUPPORT AS PER DETAIL. CONNECT TO UV-15.
CU-16	OUTDOOR ROOF MOUNTED	3.0	36	SCROLL	1	1	R32	52	1	208/1/60	21.5	35	250±	DAIKIN	DH4SEA3610	PROVIDE CONTINUOUS SUPPORT AS PER DETAIL. CONNECT TO UV-16.
CU-17	OUTDOOR ROOF MOUNTED	3.0	36	SCROLL	1	1	R32	52	1	208/1/60	21.5	35	250±	DAIKIN	DH4SEA3610	PROVIDE CONTINUOUS SUPPORT AS PER DETAIL. CONNECT TO UV-17.
CU-18	OUTDOOR ROOF MOUNTED	3.0	36	SCROLL	1	1	R32	52	1	208/1/60	21.5	35	250±	DAIKIN	DH4SEA3610	PROVIDE CONTINUOUS SUPPORT AS PER DETAIL. CONNECT TO UV-18.
CU-19	OUTDOOR ROOF MOUNTED	3.0	36	SCROLL	1	1	R32	52	1	208/1/60	21.5	35	250±	DAIKIN	DH4SEA3610	PROVIDE CONTINUOUS SUPPORT AS PER DETAIL. CONNECT TO UV-19.
CU-20	OUTDOOR ROOF MOUNTED	3.0	36	SCROLL	1	1	R32	52	1	208/1/60	21.5	35	250±	DAIKIN	DH4SEA3610	PROVIDE CONTINUOUS SUPPORT AS PER DETAIL. CONNECT TO UV-20.
CU-21	OUTDOOR ROOF MOUNTED	3.0	36	SCROLL	1	1	R32	52	1	208/1/60	21.5	35	250±	DAIKIN	DH4SEA3610	PROVIDE CONTINUOUS SUPPORT AS PER DETAIL. CONNECT TO UV-21.
CU-22	OUTDOOR ROOF MOUNTED	3.0	36	SCROLL	1	1	R32	52	1	208/1/60	21.5	35	250±	DAIKIN	DH4SEA3610	PROVIDE CONTINUOUS SUPPORT AS PER DETAIL. CONNECT TO UV-22.
CU-23	OUTDOOR ROOF MOUNTED	3.0	36	SCROLL	1	1	R32	52	1	208/1/60	21.5	35	250±	DAIKIN	DH4SEA3610	PROVIDE CONTINUOUS SUPPORT AS PER DETAIL. CONNECT TO UV-23.
CU-24	OUTDOOR ROOF MOUNTED	3.0	36	SCROLL	1	1	R32	52	1	208/1/60	21.5	35	250±	DAIKIN	DH4SEA3610	PROVIDE CONTINUOUS SUPPORT AS PER DETAIL. CONNECT TO UV-24.
CU-25	OUTDOOR ROOF MOUNTED	3.0	36	SCROLL	1	1	R32	52	1	208/1/60	21.5	35	250±	DAIKIN	DH4SEA3610	PROVIDE CONTINUOUS SUPPORT AS PER DETAIL. CONNECT TO UV-25.
CU-26	OUTDOOR ROOF MOUNTED	3.0	36	SCROLL	1	1	R32	52	1	208/1/60	21.5	35	250±	DAIKIN	DH4SEA3610	PROVIDE CONTINUOUS SUPPORT AS PER DETAIL. CONNECT TO UV-26.
CU-27	OUTDOOR ROOF MOUNTED	3.0	36	SCROLL	1	1	R32	52	1	208/1/60	21.5	35	250±	DAIKIN	DH4SEA3610	PROVIDE CONTINUOUS SUPPORT AS PER DETAIL. CONNECT TO UV-27.

* ACCEPTABLE MANUFACTURERS: DAIKIN, TRANE, MITSUBISHI

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VVT CONTROL DAMPER SCHEDULE

Item	Capacity (cfm)			Size	Master	Slave	Bypass	Remarks	Item	Capacity (cfm)			Size	Master	Slave	Bypass	Remarks
	Design	Minimum	Maximum							Design	Minimum	Maximum					
VVT-1.1				500x250			X		VVT-2.1				500x250			X	
VVT-1.2	750	225	1275	300x300	X				VVT-2.2	500	150	850	250x250		X		
VVT-1.3	250	75	425	250ø		X			VVT-2.3	250	75	425	250ø		X		
VVT-1.4	150	45	255	200ø		X			VVT-24	200	60	340	200ø		X		
VVT-1.5	150	45	255	200ø		X			VVT-2.5	400	120	680	250x250	X			
VVT-1.6	300	90	510	250ø		X			VVT-2.6	250	75	425	250ø		X		

NO.	DESCRIPTION	DATE
1	ISSUED FOR TENDER	03.27.25

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.
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LICENSED PROFESSIONAL ENGINEER
Mar 27/25
A.D.R. DEMAITER
100508548
PROVINCE OF ONTARIO

CRESTVIEW OFFICE RENOVATION & HVAC UPGRADE

153 Montcalm Drive, Kitchener, ON, N2B 2R6

Waterloo Region District School Board

SCHEDULES 2

DEI Consulting Engineers
MECHANICAL | ELECTRICAL | AQUATIC
55 Northland Road, Waterloo, ON N2V 1Y8
Phone: 519-725-3555
Website: deiassociates.ca
Project Number: 24343

SCALE	As indicated
DATE	March 2025
DRAWN	CB
CHECKED	AD
PRINT DATE	-
REVIT FILE	-
PROJECT	24113
DRAWING	M02

GENERAL DEMOLITION NOTES

A. EXISTING MECHANICAL ITEMS NOT SHOWN SHALL REMAIN UNLESS NOTED OTHERWISE.

B. EXISTING MECHANICAL ITEMS SHOWN BUT NOT NOTED AS BEING REMOVED OR RENOVATED SHALL REMAIN AS PRESENTLY INSTALLED AND OPERATING.

C. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ON SITE ALL LOCATIONS AND SIZES OF ALL SERVICES & EQUIPMENT PRIOR TO THE COMMENCEMENT OF WORK.

D. ALL OPENINGS THAT RESULT FROM THE REMOVAL OF EQUIPMENT OR SERVICES SHALL BE NEATLY PATCHED WITH SUITABLE NEW MATERIALS TO SUIT EXISTING CONSTRUCTION.

E. PLUMBING VENTS ARE NOT INDICATED OR IDENTIFIED. REMOVE ALL REDUNDANT VENTS WHILE MAINTAINING INTEGRITY OF EXISTING SYSTEMS TO REMAIN.

F. REMOVAL OF EXISTING PIPING, OR DUCT SYSTEMS INCLUDES REMOVAL OF ALL HANGERS, INSULATION, FITTINGS, ETC.

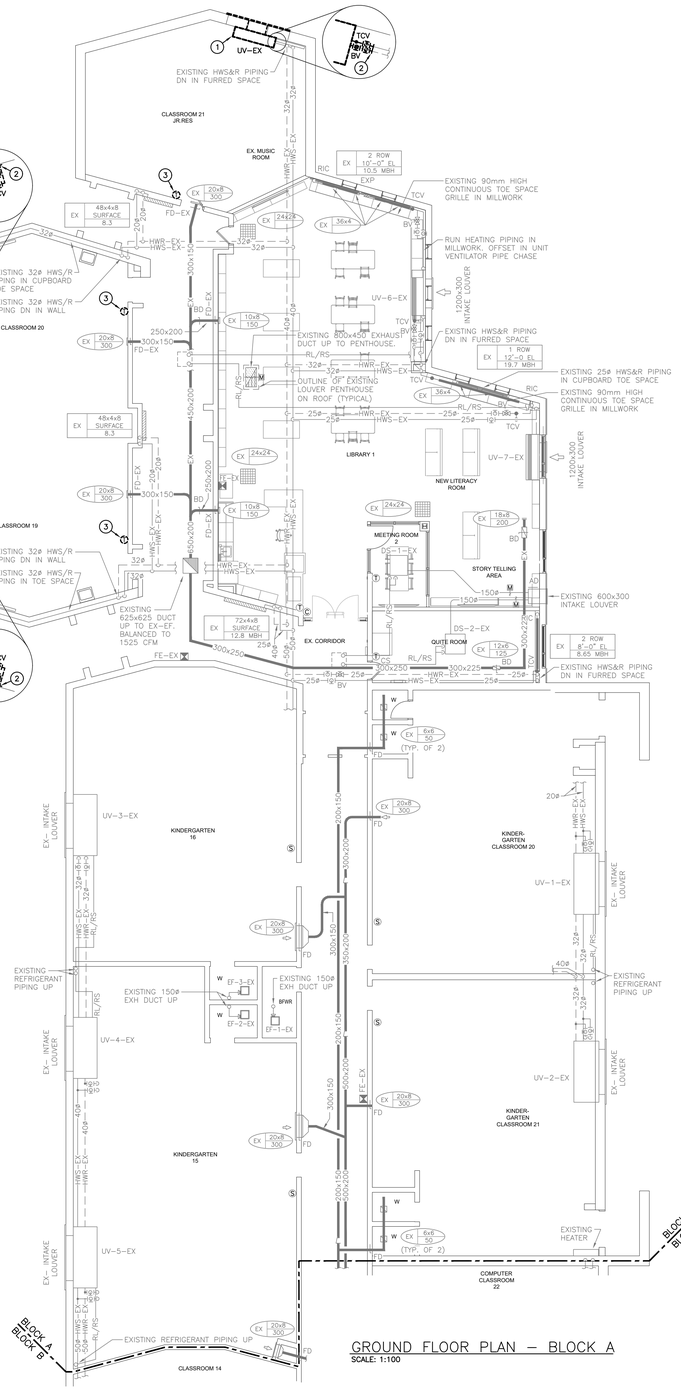
G. MAINTAIN INTEGRITY OF EXISTING SYSTEMS THAT ARE TO REMAIN OR BE MODIFIED.

H. INSTALL NEW SYSTEM OR SERVICES WHERE REQUIRED TO MAINTAIN SYSTEM OPERATION PRIOR TO DEMOLITION OF EXISTING SERVICES.

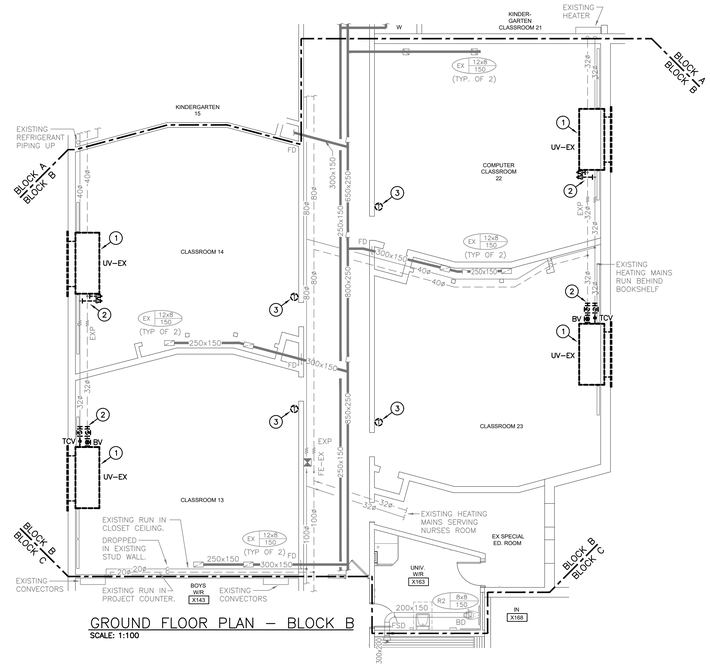
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SPECIFIC DEMOLITION NOTES

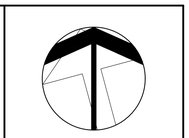
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3. EXISTING THERMOSTAT TO BE REMOVED COMPLETE. EXISTING PNEUMATIC TUBING TO BE REMOVED COMPLETE. PROVIDE STAINLESS STEEL COVER PLATE WHERE THERMOSTAT REMOVED BUT NOT REPLACED.

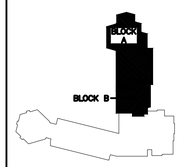


GROUND FLOOR PLAN – BLOCK A
SCALE: 1:100



GROUND FLOOR PLAN – BLOCK B
SCALE: 1:100





Key Plan

NO.	DESCRIPTION	DATE
1	ISSUED FOR TENDER	03.27.25

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LICENSED PROFESSIONAL ENGINEER
Mar 27/25
A.D.R. DEMAITER
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PROVINCE OF ONTARIO

CRESTVIEW OFFICE RENOVATION & HVAC UPGRADE

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Waterloo Region District School Board

GROUND FLOOR PLAN BLOCKS A & B DEMOLITION

DEI Consulting Engineers
MECHANICAL | ELECTRICAL | AQUATIC
55 Northland Road, Waterloo, ON N2V 1Y8
Phone: 519-775-3555
Website: deiassociates.ca
Project Number: 24343

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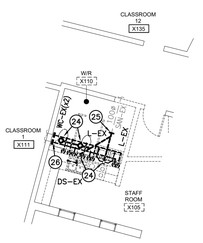
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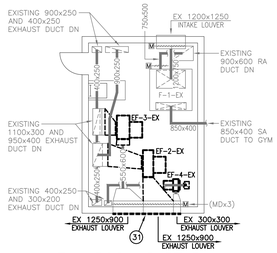
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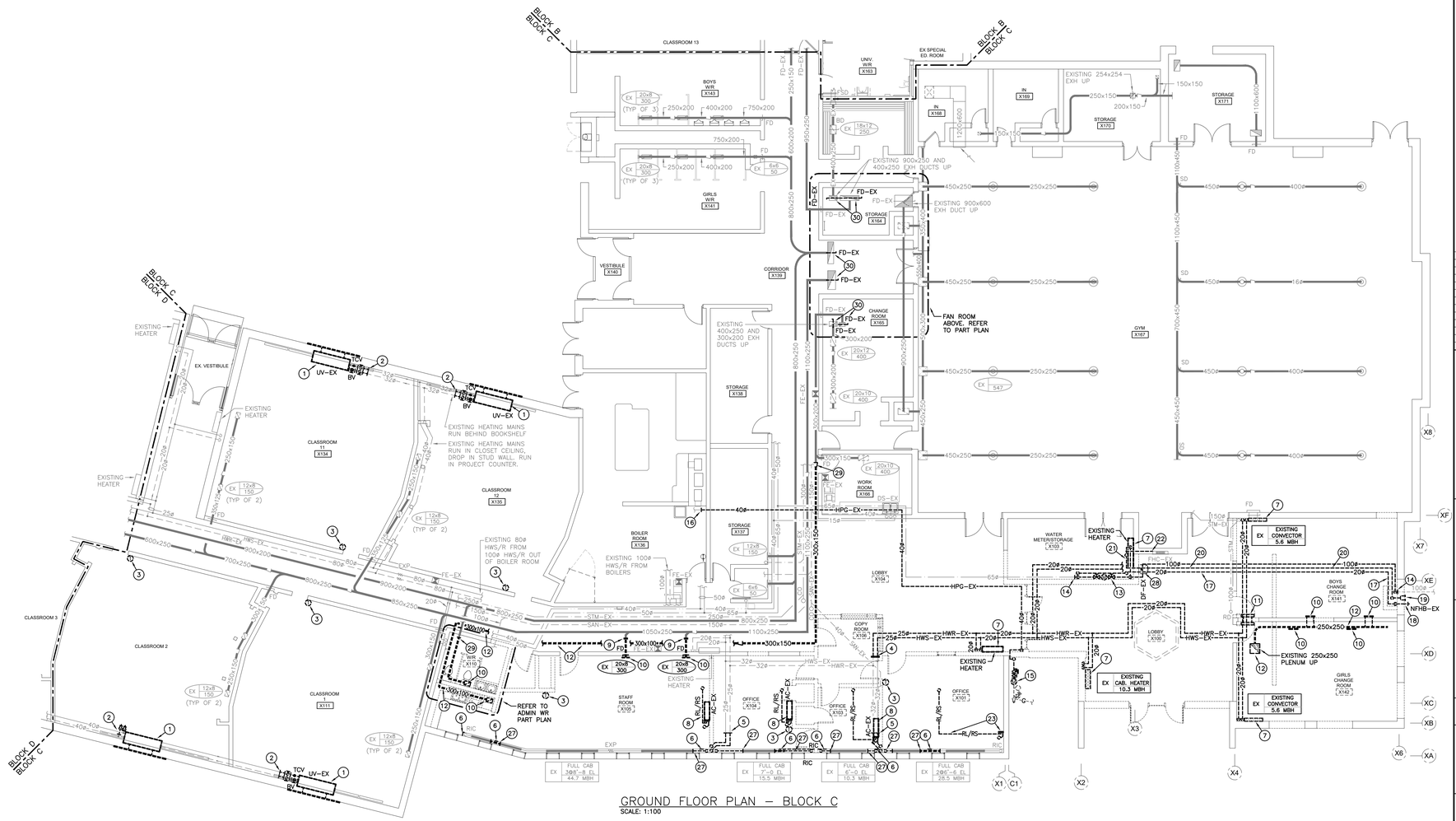
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3. EXISTING THERMOSTAT TO BE REMOVED COMPLETE. EXISTING PNEUMATIC TUBING TO BE REMOVED COMPLETE. PROVIDE STAINLESS STEEL COVER PLATE WHERE THERMOSTAT REMOVED BUT NOT REPLACED.
4. EXISTING HWS/R PIPING TO BE CUT, CAPPED AND REMOVED BEYOND COMPLETE.
5. EXISTING HWS/R PIPING TO BE CUT AND REMOVED BEYOND COMPLETE. PREPARE FOR NEW CONNECTION.
6. EXISTING SECTION OF RAD CABINET TO BE REMOVED TO SUIT NEW WALL LOCATION.
7. EXISTING HEATER AND ASSOCIATED CONTROLS/PIPING TO BE DISCONNECTED AND REMOVED COMPLETE.
8. EXISTING AC UNIT TO BE DISCONNECTED AND REMOVED COMPLETE. EXISTING RL/RS AND CONDENSATE PIPING TO BE REMOVED COMPLETE. PATCH OPENING(S) THRU ROOF TO MATCH EXISTING ROOF CONSTRUCTION.
9. EXISTING DUCT TO BE CUT, CAPPED, AND REMOVED BEYOND COMPLETE.
10. EXISTING GRILLE TO BE REMOVED COMPLETE.
11. EXISTING TRANSFER DUCT AND ASSOCIATED GRILLES TO BE REMOVED COMPLETE.
12. EXISTING DUCTWORK TO BE REMOVED COMPLETE.
13. EXISTING WATER METER ASSEMBLY TO BE CUT AND REMOVED AS INDICATED. PREPARE FOR NEW CONNECTION.
14. EXISTING SECTION OF CW TO BE CUT AND REMOVED AS INDICATED TO ALLOW FOR RELOCATION OF WATER ENTRANCE.
15. EXISTING GAS METER ASSEMBLY TO BE DISCONNECTED AND REMOVED COMPLETE. REMAINING PIPING BELOW GRADE TO BE CAPPED AND ABANDONED IN PLACE.
16. EXISTING HPG PIPING TO BE CUT AND REMOVED BACK COMPLETE AS INDICATED.
17. EXISTING CW TO BE REMOVED COMPLETE.
18. EXISTING NFHB TO BE DISCONNECTED AND REMOVED COMPLETE.
19. EXISTING FIRE DEPARTMENT CONNECTION TO BE DISCONNECTED AND REMOVED COMPLETE.
20. EXISTING STANDPIPE TO BE REMOVED AS INDICATED.
21. EXISTING STANDPIPE BACKFLOW TO BE CUT AND REMOVED AS INDICATED.
22. EXISTING STANDPIPE LINE SERVING FHC TO BE REMOVED COMPLETE. FHC TO REMAIN.
23. EXISTING RL/RS AND CONDENSATE PIPING SERVING PREVIOUSLY REMOVED AC UNIT TO BE REMOVED COMPLETE. PATCH OPENING(S) THRU ROOF TO MATCH EXISTING ROOF CONSTRUCTION.
24. EXISTING FIXTURE TO BE DISCONNECTED AND REMOVED COMPLETE. EXISTING SAN/DOMESTIC WATER TO BE REMOVED AS INDICATED.
25. EXISTING SAN BELOW FLOOR TO BE CUT AND REMOVED AS INDICATED. PREPARE FOR NEW CONNECTION.
26. EXISTING H&CW TO BE CUT, CAPPED AND WALL AND REMOVED BEYOND COMPLETE.
27. EXISTING SECTION OF RADIATION TO BE CUT AND REMOVED AS INDICATED.
28. EXISTING FIXTURE TO BE DISCONNECTED AND REMOVED COMPLETE. EXISTING SAN/DOMESTIC WATER TO BE REMOVED AND CAPPED AT SOURCE. CONTRACTOR TO CONFIRM ROUTE OF SERVICES ON SITE.
29. EXISTING DUCT TO BE CUT AND REMOVED BEYOND COMPLETE.
30. EXISTING FIRE DAMPER TO BE CUT AND REMOVED COMPLETE. NEW DAMPER TO BE INSTALLED. REFER TO RENOVATION DRAWINGS.
31. EXISTING LOUVERS TO BE REMOVED COMPETE AND REPLACED WITH NEW. REFER TO RENOVATION DRAWINGS.



ADMIN WR PART PLAN
SCALE: 1:100

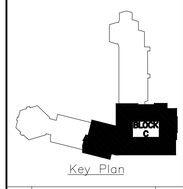


FAN ROOM PART PLAN
SCALE: 1:100



GROUND FLOOR PLAN – BLOCK C
SCALE: 1:100





Key Plan

NO.	DESCRIPTION	DATE
1	ISSUED FOR TENDER	03.27.25

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CRESTVIEW OFFICE RENOVATION & HVAC UPGRADE

153 Montcalm Drive, Kitchener, ON, N2B 2R6

Waterloo Region District School Board

GROUND FLOOR PLAN BLOCK C DEMOLITION

DEI Consulting Engineers
MECHANICAL | ELECTRICAL | AQUATIC
55 Northland Road, Waterloo, ON N2V 1Y8
Phone: 519-745-3555
Website: deiassociates.ca
Project Number: 24113

SCALE	As indicated
PROJECT	24113
DATE	March 2025
DRAWN	CB
DRAWING	M04
CHECKED	AD
PRINT DATE	-
REVIT FILE	-

GENERAL DEMOLITION NOTES

A. EXISTING MECHANICAL ITEMS NOT SHOWN SHALL REMAIN UNLESS NOTED OTHERWISE.

B. EXISTING MECHANICAL ITEMS SHOWN BUT NOT NOTED AS BEING REMOVED OR RENOVATED SHALL REMAIN AS PRESENTLY INSTALLED AND OPERATING.

C. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ON SITE ALL LOCATIONS AND SIZES OF ALL SERVICES & EQUIPMENT PRIOR TO THE COMMENCEMENT OF WORK.

D. ALL OPENINGS THAT RESULT FROM THE REMOVAL OF EQUIPMENT OR SERVICES SHALL BE NEATLY PATCHED WITH SUITABLE NEW MATERIALS TO SUIT EXISTING CONSTRUCTION.

E. PLUMBING VENTS ARE NOT INDICATED OR IDENTIFIED. REMOVE ALL REDUNDANT VENTS WHILE MAINTAINING INTEGRITY OF EXISTING SYSTEMS TO REMAIN.

F. REMOVAL OF EXISTING PIPING, OR DUCT SYSTEMS INCLUDES REMOVAL OF ALL HANGERS, INSULATION, FITTINGS, ETC.

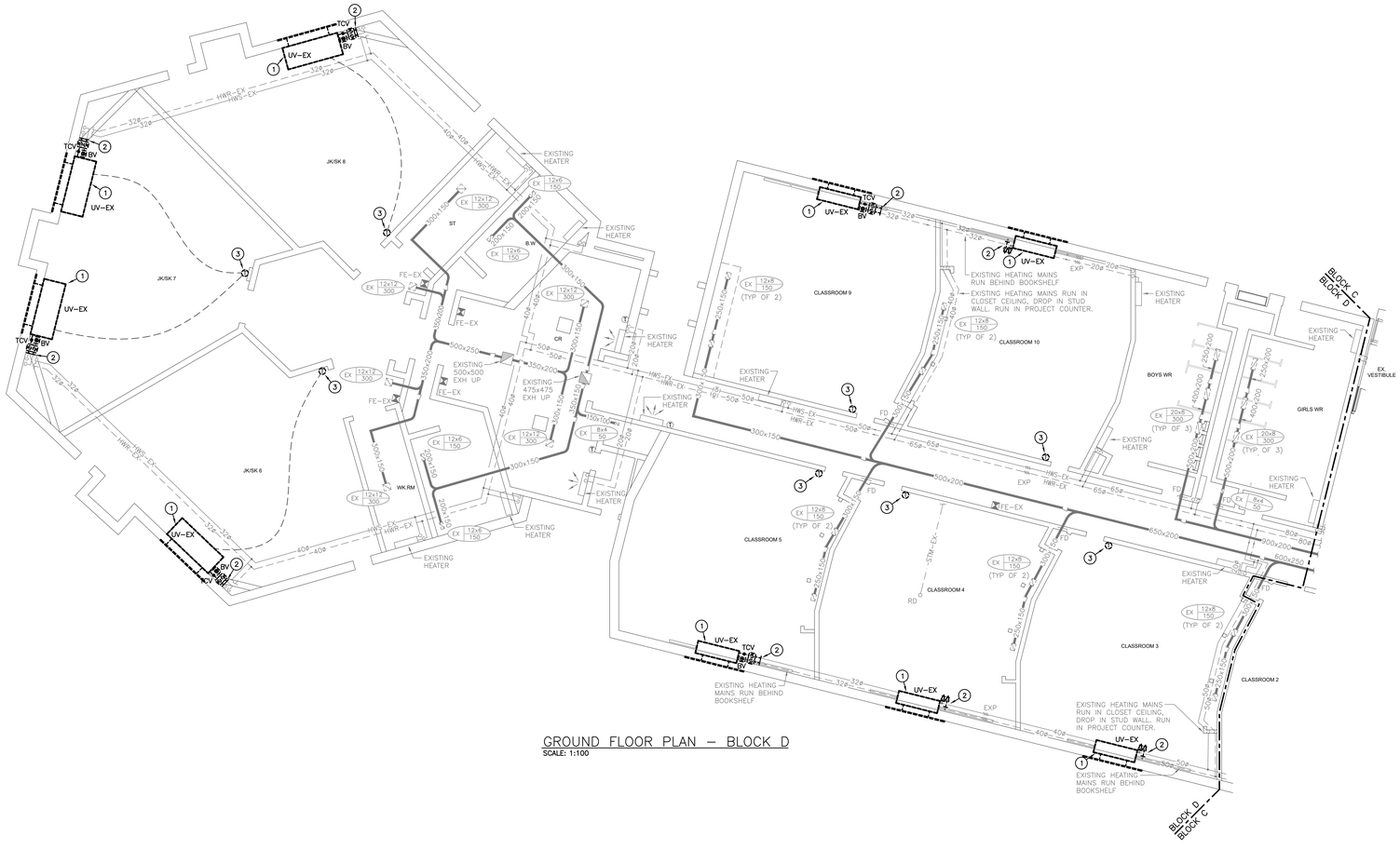
G. MAINTAIN INTEGRITY OF EXISTING SYSTEMS THAT ARE TO REMAIN OR BE MODIFIED.

H. INSTALL NEW SYSTEM OR SERVICES WHERE REQUIRED TO MAINTAIN SYSTEM OPERATION PRIOR TO DEMOLITION OF EXISTING SERVICES.

I. THIS CONTRACTOR IS TO REMOVE & REPLACE CEILINGS AS REQUIRED FOR REMOVAL/REPLACEMENT OF SERVICES.

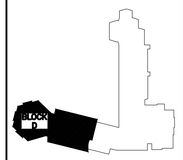
SPECIFIC DEMOLITION NOTES

1. EXISTING UNIT VENTILATOR AND ASSOCIATED LOUVER TO BE DISCONNECTED AND REMOVED COMPLETE.
2. EXISTING PNEUMATIC CONTROL VALVE & ASSOCIATED ISOLATION & BALANCING VALVES TO BE REMOVED & REPLACED WITH DDC VALVE. REFER TO RENOVATION DRAWINGS. EXISTING PNEUMATIC TUBING TO BE REMOVED COMPLETE.
3. EXISTING THERMOSTAT TO BE REMOVED COMPLETE. EXISTING PNEUMATIC TUBING TO BE REMOVED COMPLETE. PROVIDE STAINLESS STEEL COVER PLATE WHERE THERMOSTAT REMOVED BUT NOT REPLACED.



GROUND FLOOR PLAN – BLOCK D
SCALE: 1:100





Key Plan

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CRESTVIEW OFFICE RENOVATION & HVAC UPGRADE

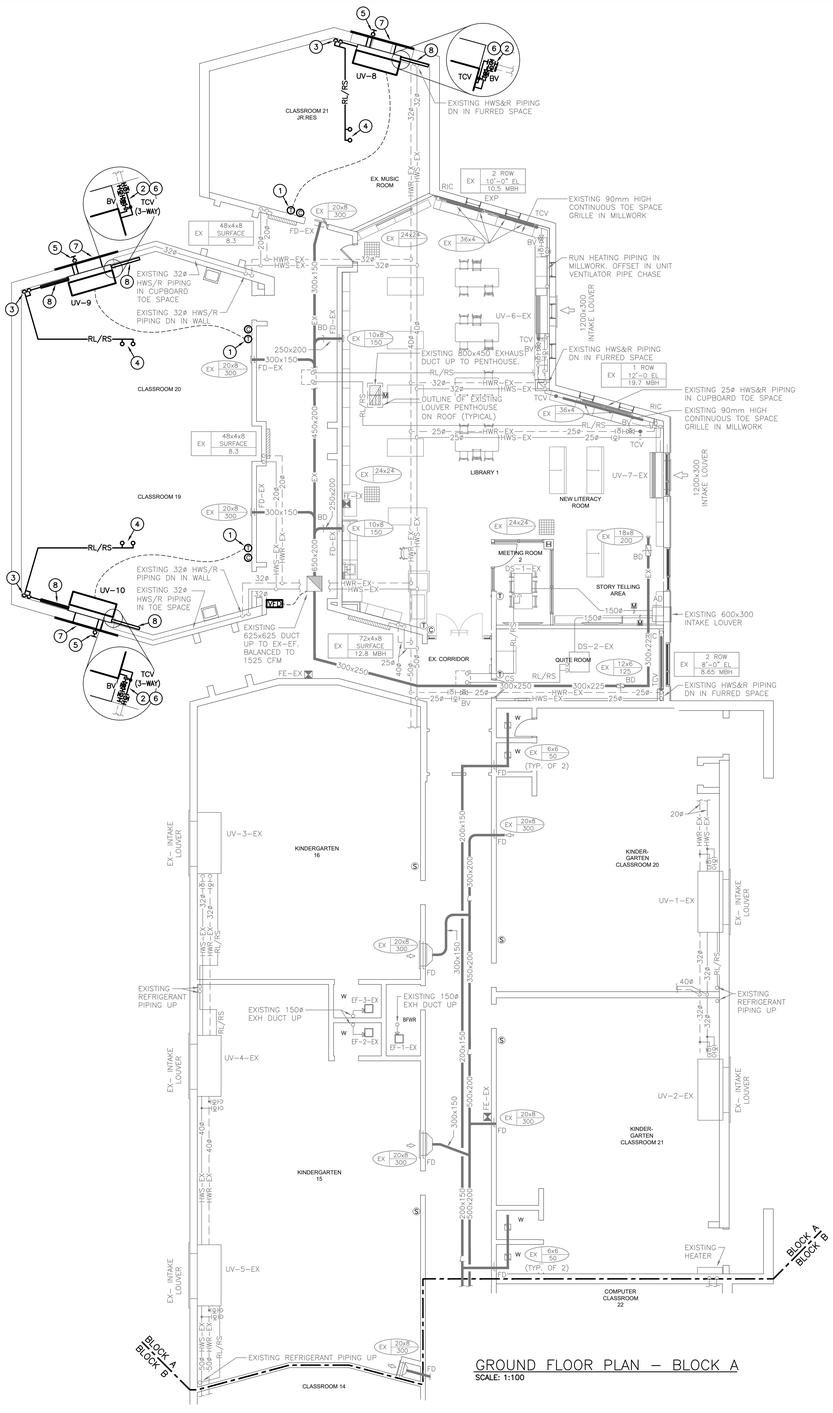
153 Montcalm Drive, Kitchener, ON, N2B 2R6

Waterloo Region District School Board

GROUND FLOOR PLAN
BLOCK D
DEMOLITION

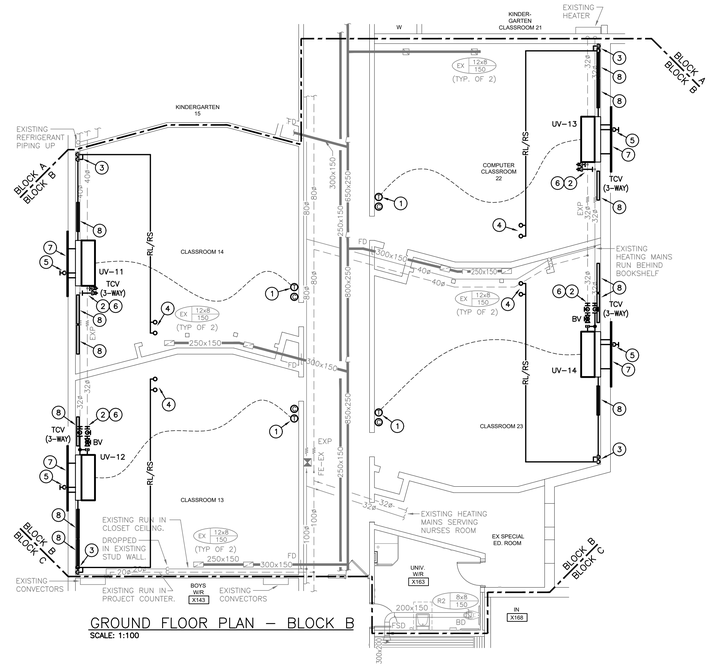
DEI Consulting Engineers
MECHANICAL | ELECTRICAL | AQUATIC
55 Northland Road, Waterloo, ON N2V 1Y8
Phone: 519-725-3555
Website: deiassociates.ca
Project Number: 24347

SCALE	As indicated
DATE	March 2025
DRAWN	CB
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PROJECT	24113
DRAWING	M05
PRINT DATE	-
REVIT FILE	-



GROUND FLOOR PLAN – BLOCK A

SCALE: 1:100



GROUND FLOOR PLAN – BLOCK B

SCALE: 1:100

GENERAL RENOVATION NOTES

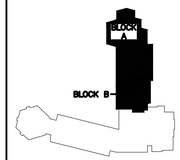
A. EXISTING ROOF IS CONSTRUCTED WITH RAPIDEX. REFER TO STRUCTURAL DRAWINGS FOR SPECIFIC UNISTRUT HANGING DETAILS. ALL PIPING AND DUCTWORK SHALL BE SUPPORTED BY UNISTRUT AS PER DETAILS NOTED ON STRUCTURAL DRAWINGS.

B. ALL EXHAUST DUCTWORK SHALL BE CLEANED IN FULL. REFER TO SPECIFICATIONS.

SPECIFIC RENOVATION NOTES

1. INSTALL NEW DDC THERMOSTAT/CARBON DIOXIDE (CO2) SENSOR & CONTROL WIRING. FISH EXISTING WALL OR PROVIDE NEW WIREMOLD AS REQUIRED FOR NEW CONTROL WIRING.
2. INSTALL NEW ISOLATION VALVES, BALANCING VALVES & 3-WAY TEMPERATURE CONTROL VALVES AND EXTEND TO NEW UNIT VENTILATOR.
3. NEW RL&RS PIPING DN IN CHASE. ROUTE PIPING WITHIN CHASE TO UNIT VENTILATOR. REFER TO DETAIL.
4. RL/RS REFRIGERANT PIPING THRU ROOF TO CONDENSING UNITS. REFER TO DETAIL. NUMBER OF REFRIGERANT CIRCUITS AND SIZING AS PER MANUFACTURER'S RECOMMENDATION AND REQUIREMENTS.
5. 25ø CONDENSATE DRAIN ROUTED THRU EXTERIOR WALL. REFER TO DETAIL. CONDENSATE SHALL NOT DISCHARGE THRU LOUVER.
6. CONNECT NEW HWS/R PIPING TO EXISTING CUT CONNECTIONS. SIZE TO MATCH EXISTING.
7. NEW 2700x400 INTAKE LOUVER. PROVIDE HEAVY DUTY LATTICE (W/ PUNCHED RECTANGULAR HOLES) GRILLE OVER LOUVER. REFER TO UNIT VENTILATOR SCHEDULE. CONTRACTOR TO CONFIRM SIZE OF EXISTING LOUVER ON SITE PRIOR TO ORDER NEW LOUVER.
8. EXISTING DRAFT STOP GRILLES SHALL BE CLEANED AND REPAINTED. REINSTATE IN MILLWORK.





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Mar 27/25
A.D.R. DEMAITER
100508548
PROVINCE OF ONTARIO

CRESTVIEW OFFICE RENOVATION & HVAC UPGRADE

153 Montcalm Drive, Kitchener, ON, N2B 2R6

Waterloo Region District School Board

GROUND FLOOR PLAN BLOCKS A & B RENOVATION

DEI Consulting Engineers
MECHANICAL | ELECTRICAL | AQUATIC
55 Northland Road, Waterloo, ON N2V 1Y8
Phone: 519-775-3555
Website: deiassociates.ca
Project Number: 24343

SCALE	As indicated
DATE	March 2025
DRAWN	CB
CHECKED	AD
PROJECT	24113
DRAWING	M08
PRINT DATE	-
REVIT FILE	-

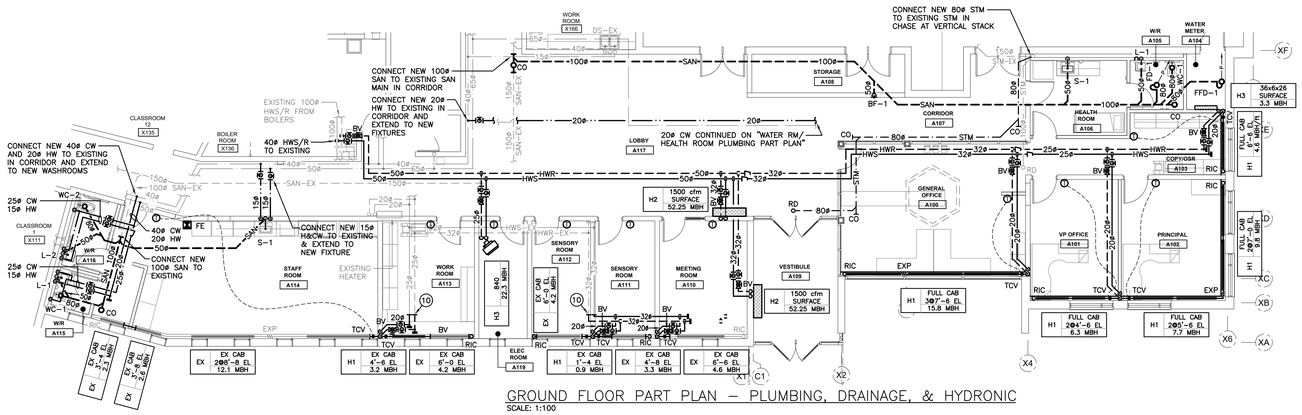
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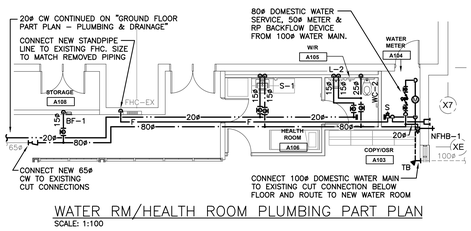
B. ALL EXHAUST DUCTWORK SHALL BE CLEANED IN FULL. REFER TO SPECIFICATIONS.

SPECIFIC RENOVATION NOTES

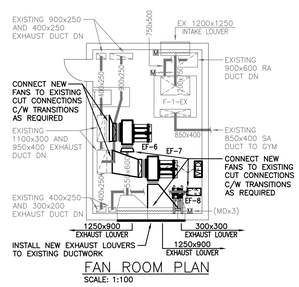
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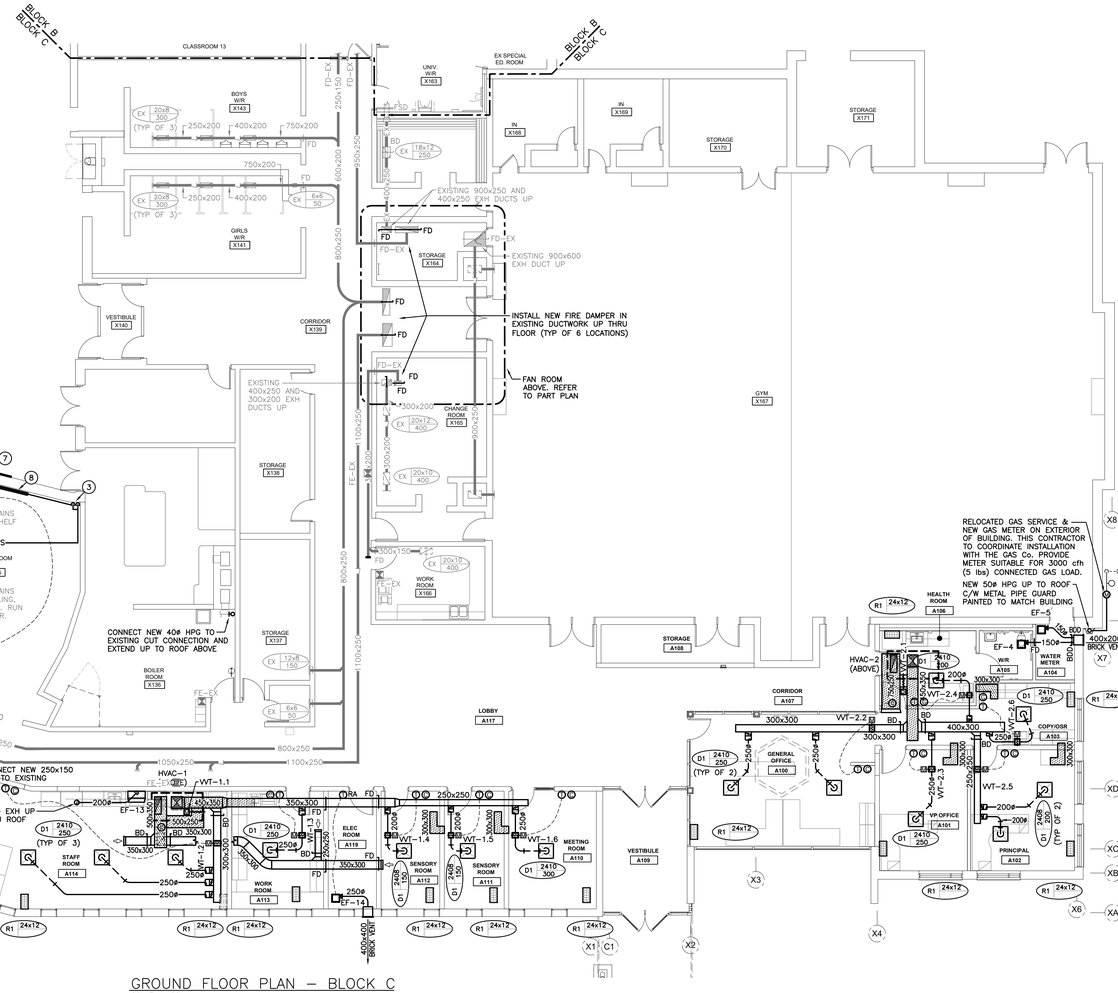
GROUND FLOOR PART PLAN – PLUMBING, DRAINAGE, & HYDRONIC
SCALE: 1:100



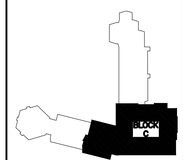
WATER RM/HEALTH ROOM PLUMBING PART PLAN
SCALE: 1:100



FAN ROOM PLAN
SCALE: 1:100



GROUND FLOOR PLAN – BLOCK C
SCALE: 1:100



Key Plan

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LICENSED PROFESSIONAL ENGINEER
Mar 27/25
A.D.R. DEMAITER
100508548
PROVINCE OF ONTARIO

CRESTVIEW OFFICE RENOVATION & HVAC UPGRADE

153 Montcalm Drive, Kitchener, ON, N2B 2R6

Waterloo Region District School Board

GROUND FLOOR PLAN BLOCK C RENOVATION

DEI Consulting Engineers
MECHANICAL | ELECTRICAL | AQUATIC
55 Northland Road, Waterloo, ON N2V 1Y8
Phone: 519-795-3555
Website: deiassociates.ca
Project Number: 24347

SCALE	As indicated
PROJECT	24113
DATE	March 2025
DRAWN	CB
CHECKED	AD
DRAWING	M07
PRINT DATE	-
REVIT FILE	-

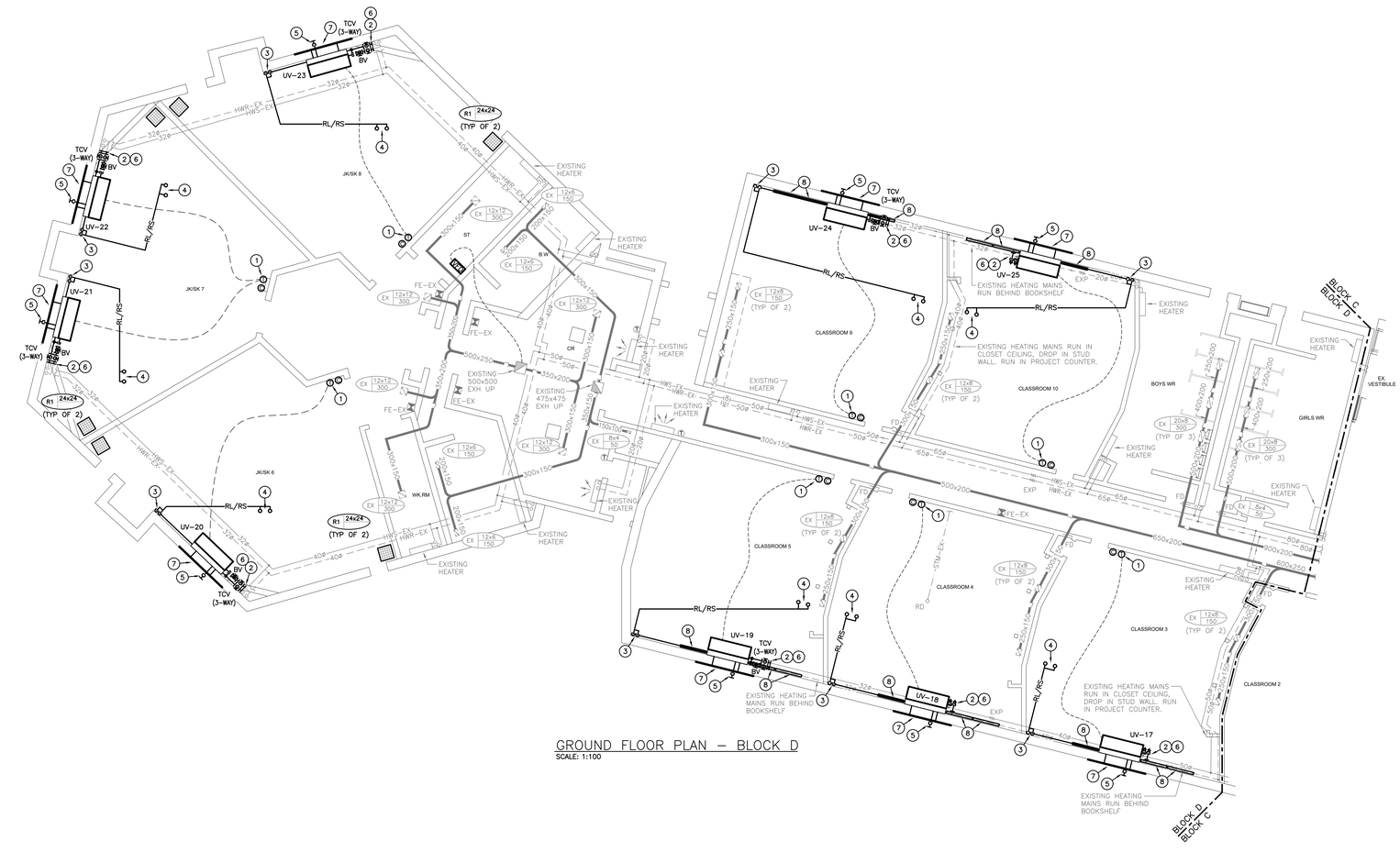
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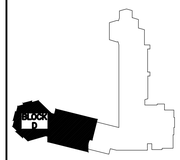
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8. EXISTING DRAFT STOP GRILLES SHALL BE CLEANED AND REPAINTED. REINSTATE IN MILLWORK.



GROUND FLOOR PLAN – BLOCK D
SCALE: 1:100





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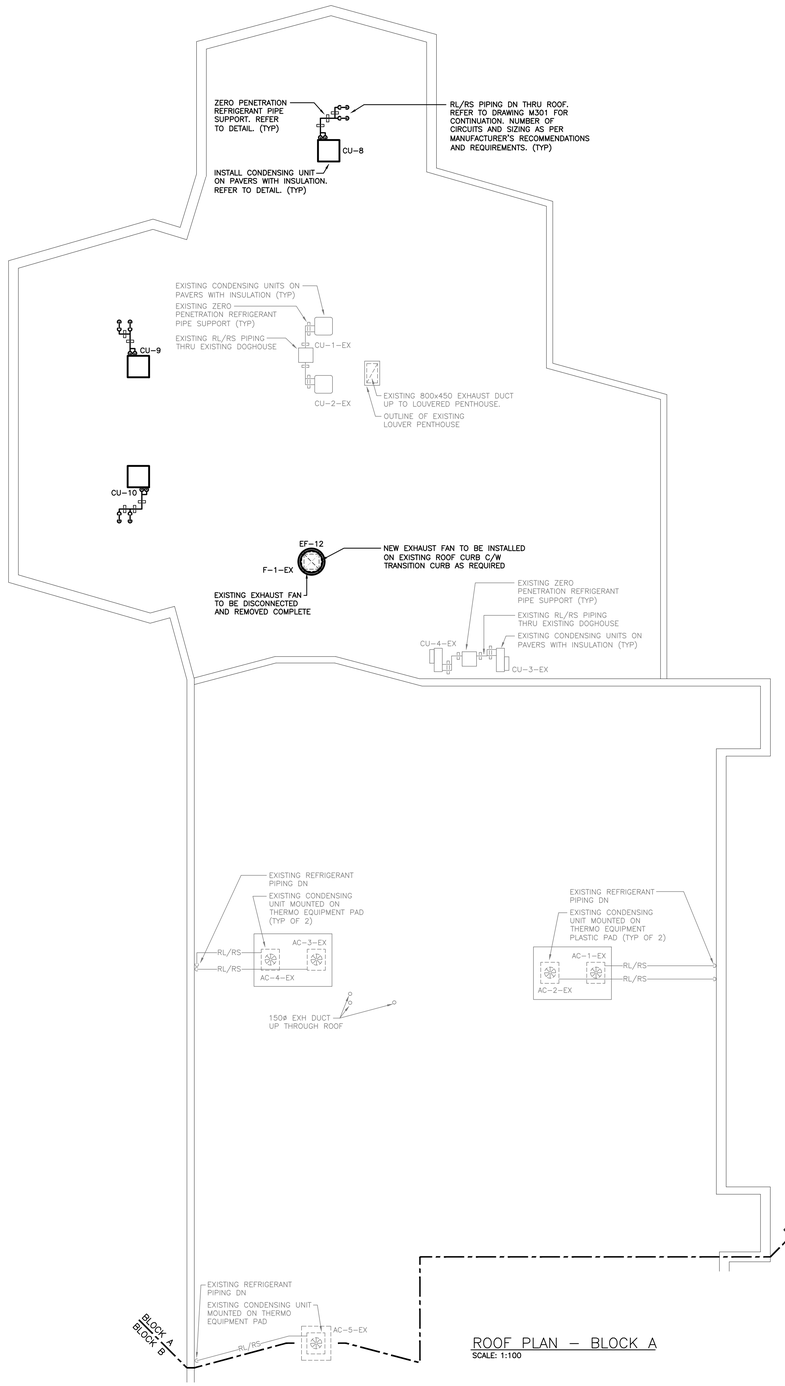
153 Montcalm Drive, Kitchener, ON, N2B 2R6

Waterloo Region District School Board

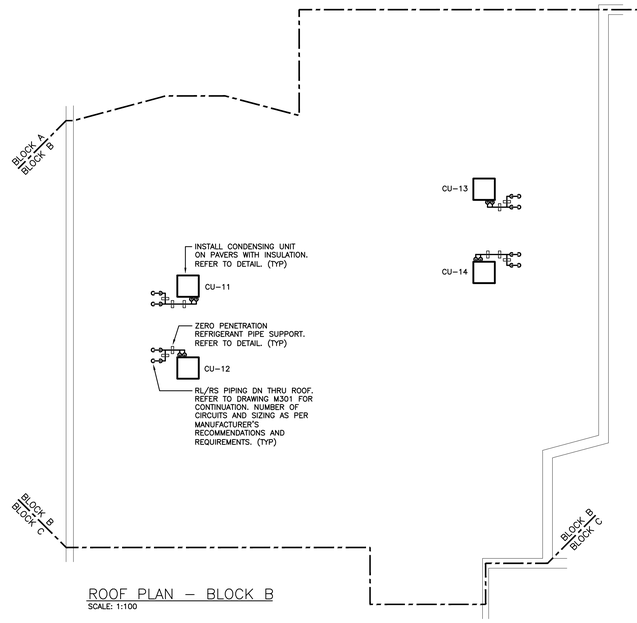
GROUND FLOOR PLAN BLOCK D RENOVATION

DEI Consulting Engineers
MECHANICAL | ELECTRICAL | AQUATIC
55 Northland Road, Waterloo, ON N2V 1Y8
Phone: 519-725-3555
Website: deiassociates.ca
Project Number: 24347

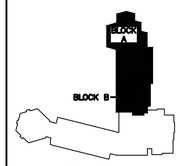
SCALE: As indicated	PROJECT: 24113
DATE: March 2025	
DRAWN: CB	DRAWING: M08
CHECKED: AD	
PRINT DATE	-
REVIT FILE	-



ROOF PLAN – BLOCK A
SCALE: 1:100



ROOF PLAN – BLOCK B
SCALE: 1:100



Key Plan

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LICENSED PROFESSIONAL ENGINEER
Mar 27/25
A.D.R. DEMAITER
100508548
PROVINCE OF ONTARIO

CRESTVIEW OFFICE RENOVATION & HVAC UPGRADE

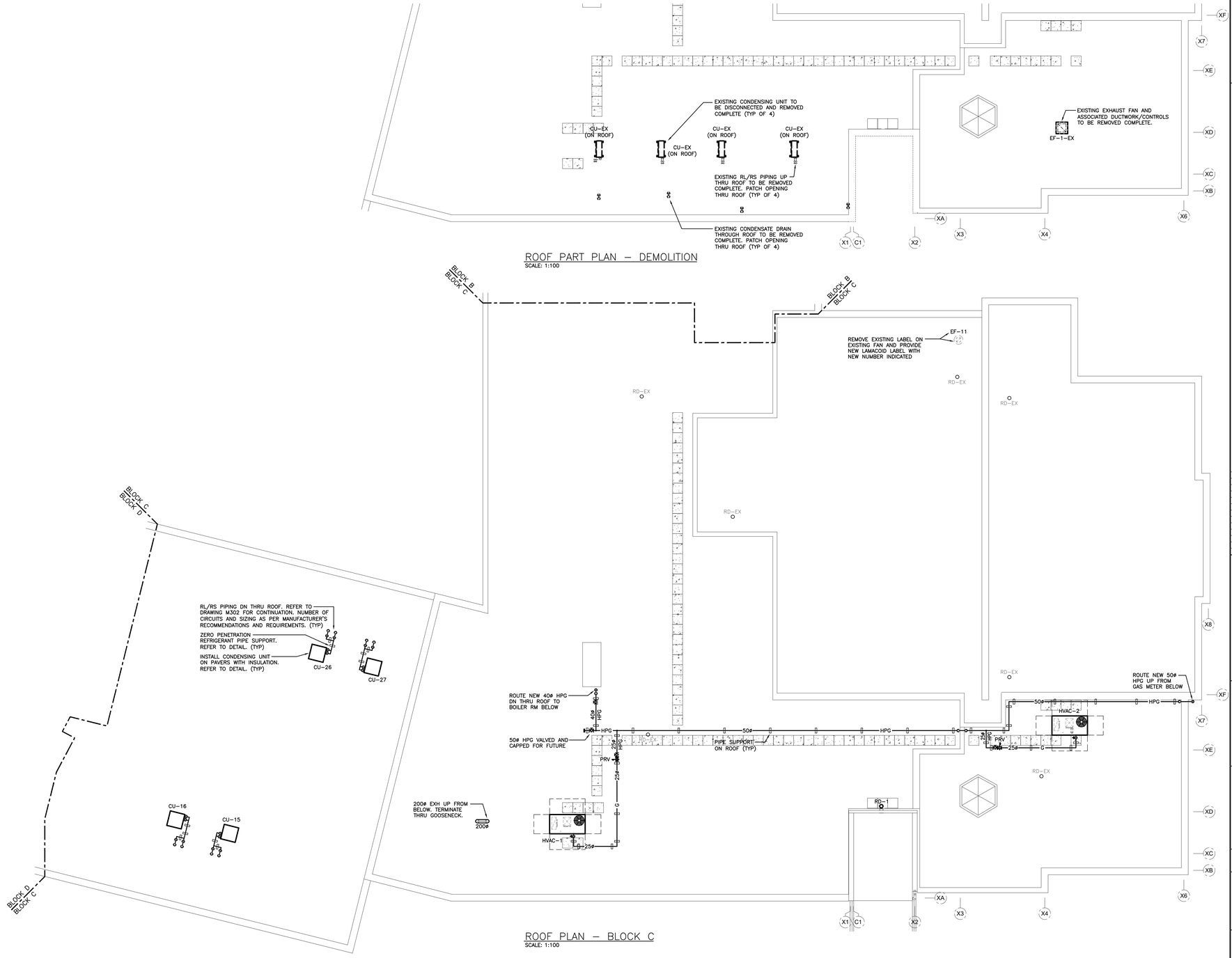
153 Montcalm Drive, Kitchener, ON, N2B 2R6

Waterloo Region District School Board

ROOF PART PLAN BLOCKS A & B DEMOLITION/RENOVATION

DEI Consulting Engineers
MECHANICAL | ELECTRICAL | AQUATIC
55 Northland Road, Waterloo, ON N2V 1Y8
Phone: 519-745-3555
Website: deiassociates.ca
Project Number: 24343

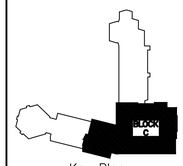
SCALE	As indicated
DATE	March 2025
DRAWN	CB
CHECKED	AD
PROJECT	24113
DRAWING	M09
PRINT DATE	-
REVIT FILE	-



ROOF PART PLAN – DEMOLITION
SCALE: 1:100

ROOF PLAN – BLOCK C
SCALE: 1:100

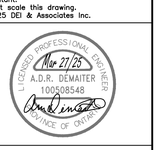




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CRESTVIEW OFFICE RENOVATION & HVAC UPGRADE

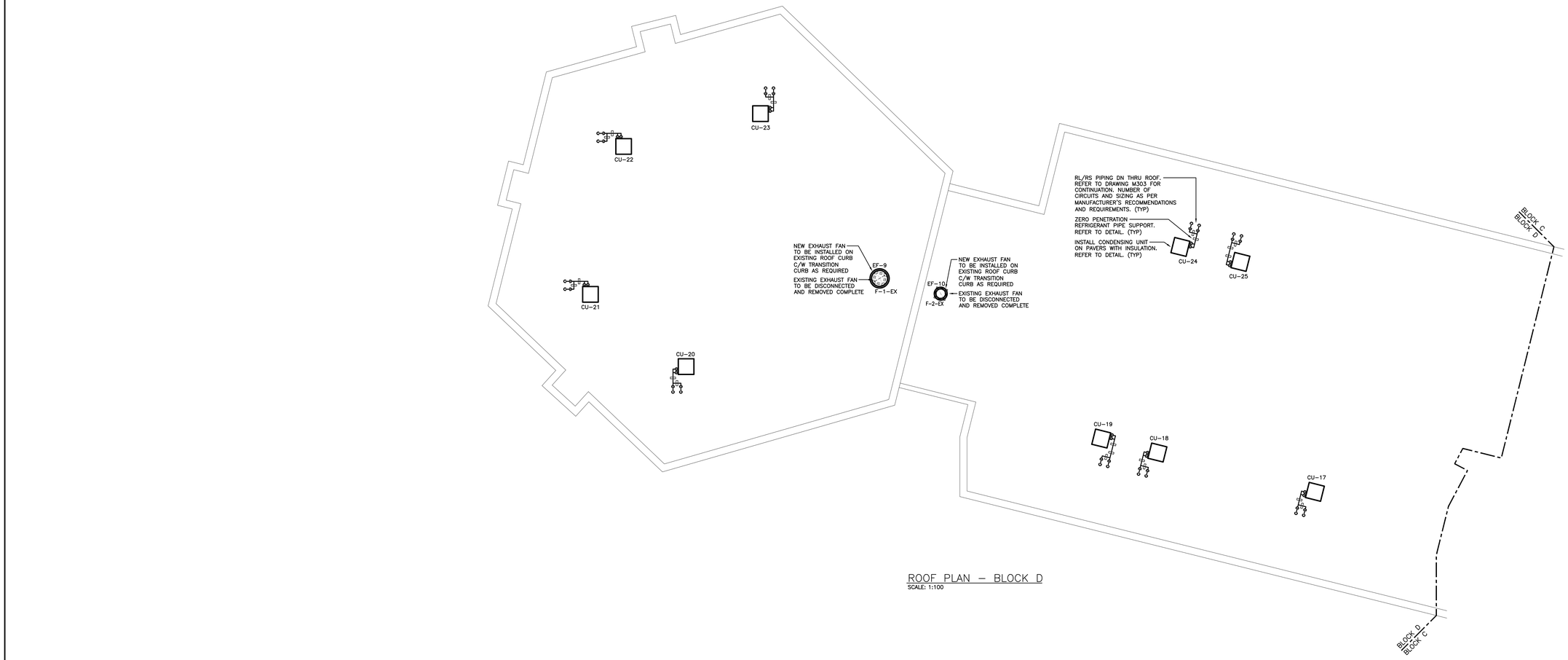
153 Montcalm Drive, Kitchener, ON, N2B 2R6

Waterloo Region District School Board

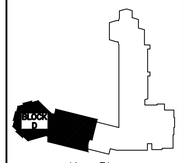
ROOF PART PLAN
BLOCK C
DEMOLITION/RENOVATION

Consulting Engineers
MECHANICAL | ELECTRICAL | AQUATIC
55 Northland Road, Waterloo, ON N2V 1Y8
Phone: 519-745-1555
Website: deiassociates.ca
Project Number: 24113

SCALE: As indicated	PROJECT: 24113
DATE: March 2025	
DRAWN: CB	DRAWING: M10
CHECKED: AD	
PRINT DATE: -	
REVIT FILE: -	



ROOF PLAN – BLOCK D
SCALE: 1:100



Key Plan

NO.	DESCRIPTION	DATE
1	ISSUED FOR TENDER	03.27.25

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LICENSED PROFESSIONAL ENGINEERS
Mar 27/25
A.D.R. DÉMAITER
100508548
PROVINCE OF ONTARIO

CRESTVIEW OFFICE RENOVATION & HVAC UPGRADE

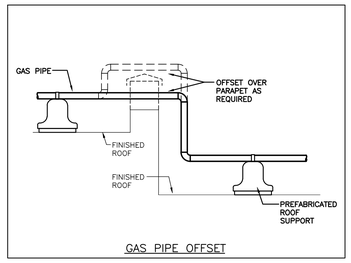
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Waterloo Region District School Board

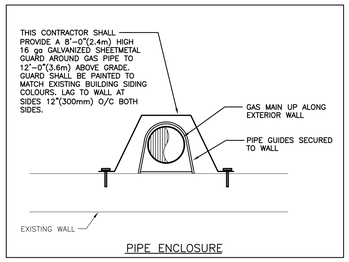
ROOF PART PLAN
BLOCK D
DEMOLITION/RENOVATION

DEI Consulting Engineers
MECHANICAL | ELECTRICAL | AQUATIC
55 Northland Road, Waterloo, ON N2V 1Y8
Phone: 519-745-3555
Website: deiassociates.ca
Project Number: 24343

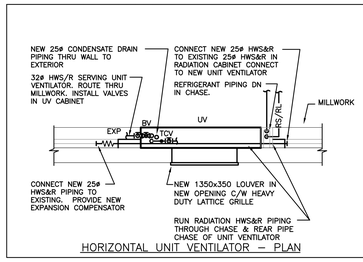
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DRAWN	CB
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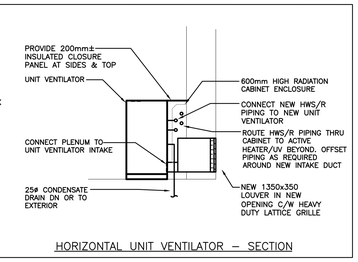
GAS PIPE OFFSET



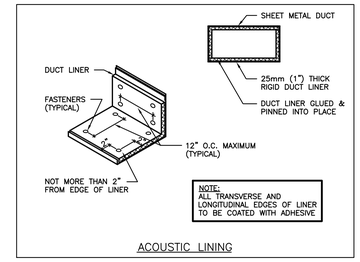
PIPE ENCLOSURE



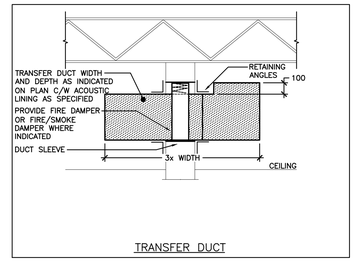
HORIZONTAL UNIT VENTILATOR — PLAN



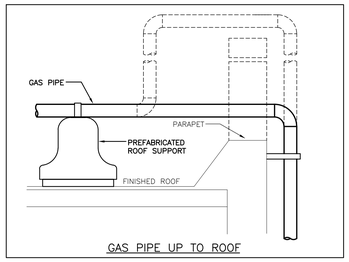
HORIZONTAL UNIT VENTILATOR — SECTION



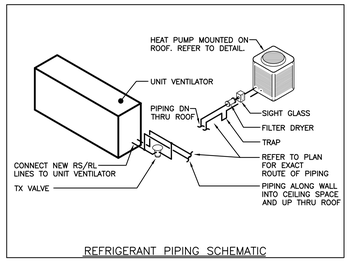
ACOUSTIC LINING



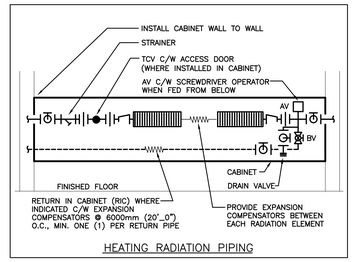
TRANSFER DUCT



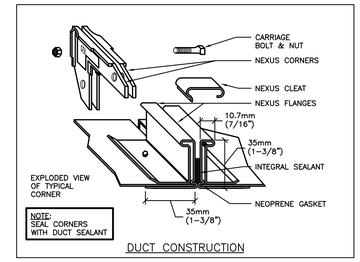
GAS PIPE UP TO ROOF



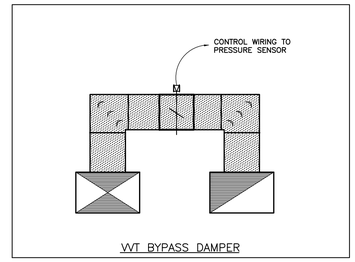
REFRIGERANT PIPING SCHEMATIC



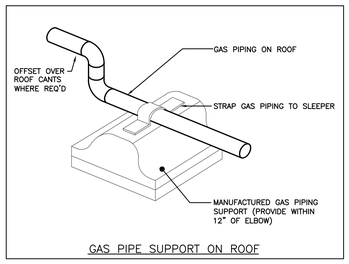
HEATING RADIATION PIPING



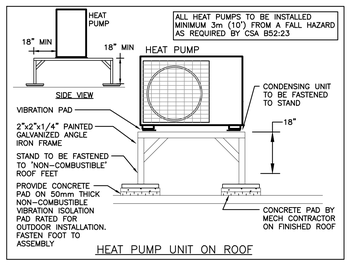
DUCT CONSTRUCTION



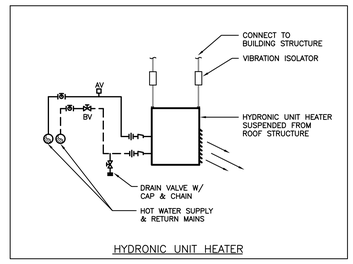
VVT BYPASS DAMPER



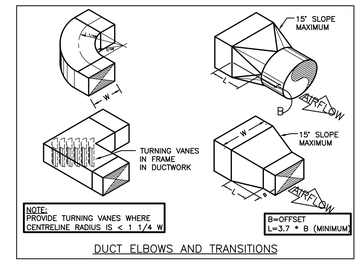
GAS PIPE SUPPORT ON ROOF



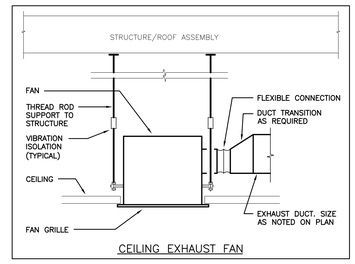
HEAT PUMP UNIT ON ROOF



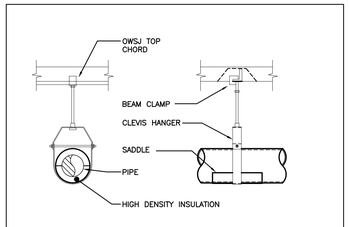
HYDRONIC UNIT HEATER



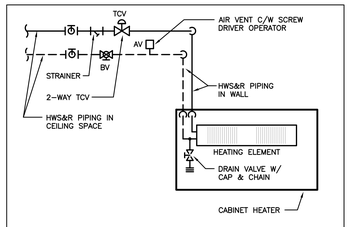
DUCT ELBOWS AND TRANSITIONS



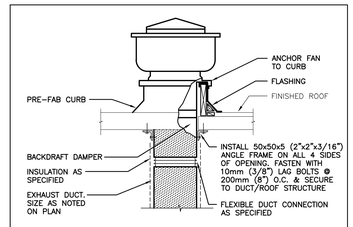
CEILING EXHAUST FAN



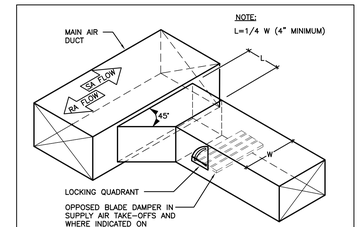
PIPE HANGER



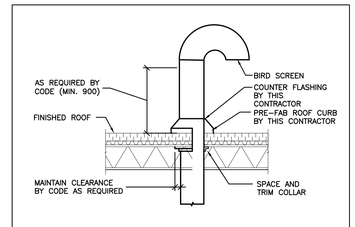
CABINET HEATER WITH 2-WAY VALVE



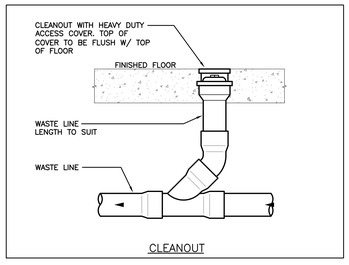
UPBLAST EXHAUST FAN INSTALLATION



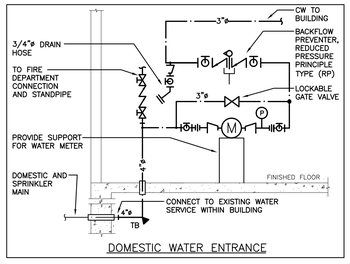
SQUARE DUCT BRANCH TAKEOFF



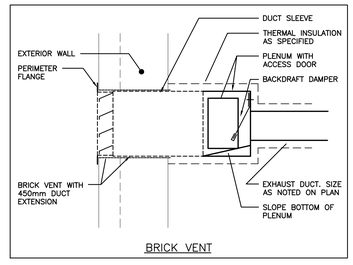
EXHAUST GOOSENECK DETAIL



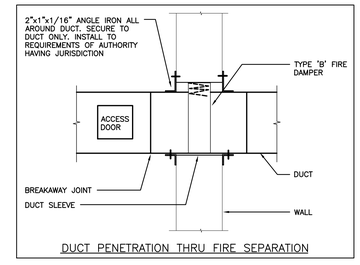
CLEANOUT



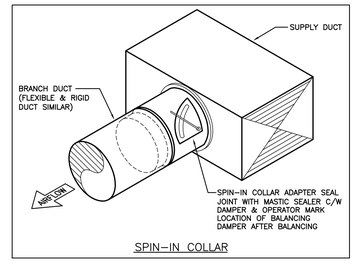
DOMESTIC WATER ENTRANCE



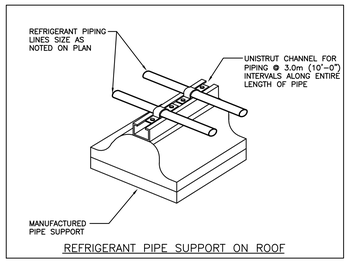
BRICK VENT



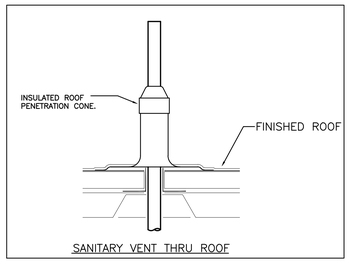
DUCT PENETRATION THRU FIRE SEPARATION



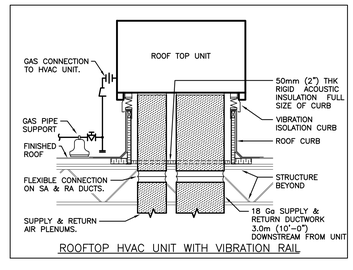
SPIN-IN COLLAR



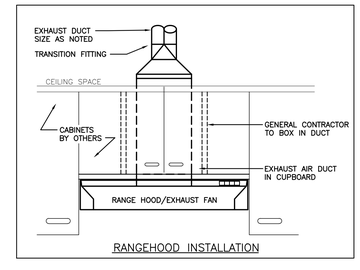
REFRIGERANT PIPE SUPPORT ON ROOF



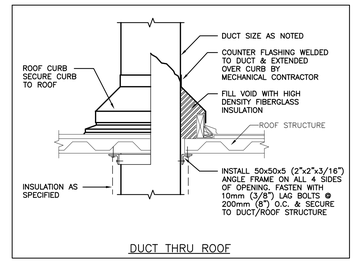
SANITARY VENT THRU ROOF



ROOFTOP HVAC UNIT WITH VIBRATION RAIL



RANGEHOOD INSTALLATION



DUCT THRU ROOF

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LICENSED PROFESSIONAL ENGINEER
A.D.R. DEMAITER
100508548
PROVINCE OF ONTARIO
Mar 27/25

CRESTVIEW OFFICE RENOVATION & HVAC UPGRADE

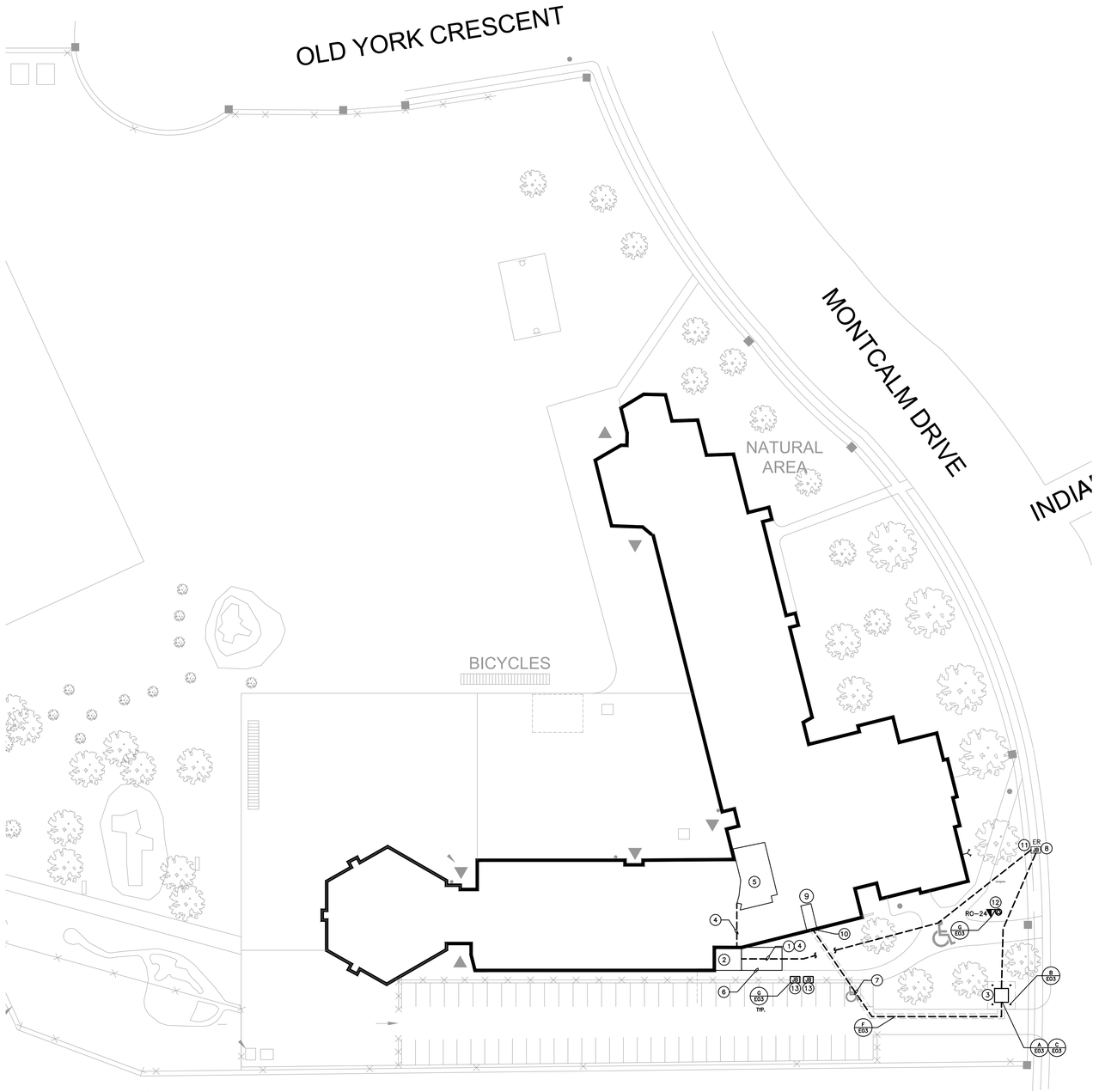
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Waterloo Region District School Board

DETAILS

DEI Consulting Engineers
MECHANICAL | ELECTRICAL | AQUATIC
55 Northland Road, Waterloo, ON N2V 1Y8
Phone: 519-795-3555
Website: deiassociates.ca
Project Number: 24113

SCALE	As indicated
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DRAWN	CB
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PROJECT	24113
DRAWING	M12
PRINT DATE	-
REVIT FILE	-



A-SITE PLAN
SCALE: 1:400

GENERAL SITE NOTES

- 'ER' DENOTES EXISTING ITEM TO REMAIN.
- EXISTING ELECTRICAL EQUIPMENT NOT SHOWN SHALL REMAIN UNLESS NOTED OTHERWISE.
- 'R' INDICATES EXISTING ITEM TO BE RELOCATED. REFER TO RENOVATION DRAWINGS AND RELOCATE DEVICE AND WIRING TO SUIT. UNLESS OTHERWISE NOTED.
- '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 SITE NOTES

1 INDICATES APPROXIMATE LOCATION OF EXISTING UNDERGROUND PRIMARY DUCT BANK AND FEEDER TO BE DISCONNECTED AND REMOVED BY UTILITY.

2 INDICATES HIGH VOLTAGE ENCLOSURE WITH EXISTING TRANSFORMERS. CONTRACTOR TO COORDINATE ENTRANCE INTO THIS AREA WITH UTILITY.

3 INDICATES LOCATION OF NEW PAD MOUNTED TRANSFORMER ON NEW CONCRETE BASE BY ENOVA HYDRO.

4 ALL EXISTING UNDERGROUND SERVICES ARE APPROXIMATE. COORDINATE EXACT LOCATIONS ON SITE WITH LOCAL AUTHORITIES. PROVIDE ALL REQUIRED LOCATES.

5 INDICATES THE APPROXIMATE LOCATION OF EXISTING MAIN ELECTRICAL ROOM. REFER TO FLOOR PLANS FOR EXACT LOCATION.

6 INDICATES PROPOSED LOCATION OF TEMPORARY GENERATOR TO BE CONFIRMED WITH SCHOOL BOARD, PROVIDE TEMPORARY PROTECTIVE FENCING.

7 CONTRACTOR IS TO SAWCUT ASPHALT FOR ALL CONTRACTOR INSTALLED DUCTBANKS.

8 INDICATES APPROXIMATE LOCATION OF NEW PRIMARY DUCTBANK UP TO PROPERTY LINE.

9 INDICATES APPROXIMATE LOCATION OF NEW SWITCHBOARD ROOM. REFER TO FLOOR PLANS FOR EXACT LOCATION.

10 CONTRACTOR IS TO SAWCUT NEW SWITCHBOARD ROOM FLOOR TO ALLOW FOR INSTALLATION OF SECONDARY DUCTBANK. SCANNING/X-RAYS OF EXISTING FLOOR ARE TO BE COMPLETED PRIOR TO INSTALLATION. COORDINATE PENETRATIONS THROUGH FOUNDATION, HAND DIG AT EXTERIOR OF BUILDING.

11 INDICATES EXISTING PRIMARY CONDUCTOR PULLBOX, ELECTRICAL CONTRACTOR IS TO BRING NEW PRIMARY DUCT TO PULLBOX FOR FINAL PRIMARY CONDUCTOR CONNECTION BY UTILITY. COORDINATE FINAL DUCT CONNECTIONS WITH HYDRO, COORDINATE PRIMARY SHUTDOWNS PRIOR TO WORK RELATED TO THE EXISTING PULLBOX.

12 LOCATION OF FUTURE PYLON SIGN. PROVIDE DUCTS FROM INTERNAL SERVICE POINT(S)/CONTACTOR IN ELECTRICAL ROOM. CONFIRM EXACT LOCATION WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGHIN.

13 INDICATES IN-GRADE JUNCTION BOX FOR FUTURE EV CHARGING STATION TO BE INSTALLED IN GRASSED AREA. ELECTRICAL CONTRACTOR TO SUPPLY AND INSTALL DUCTS AND JUNCTION BOX FOR FUTURE CONNECTION TO EV CHARGING STATION.

ELECTRICAL SERVICE-SCOPE OF WORK

ENOVA HYDRO (UTILITY) WILL PROVIDE THE FOLLOWING WORK. COST WILL BE PART OF THE ALLOWANCE FOR UTILITY WORK AS LISTED IN THE SPECIFICATIONS:

U1 SUPPLY AND INSTALLATION OF PRIMARY FUSING AND CONDUCTORS.

U2 SUPPLY AND INSTALLATION OF PAD MOUNT TRANSFORMER.

U3 CONNECTION OF PRIMARY AND SECONDARY CONDUCTORS AT PAD MOUNT TRANSFORMER.

U4 SUPPLY AND INSTALLATION OF METERING INSTRUMENTATION.

U5 SUPPLY AND INSTALLATION OF TRANSFORMER CONCRETE BASE AND GROUNDING.

U6 REMOVAL OF EXISTING METERING EQUIPMENT.

U7 SUPPLY AND INSTALLATION OF TRANSFORMER LUGS.

U8 SUPPLY AND INSTALLATION OF PROTECTIVE BOLLARDS.

U9 SUPPLY AND TERMINATION OF COAX CABLE FOR CONNECTION FROM METER CABINET TO REMOTE METERING ANTENNA.

THE ELECTRICAL CONTRACTOR FOR THE BUILDING OWNER (CUSTOMER) SHALL BE RESPONSIBLE FOR THE FOLLOWING:

C1 ALL WORK SHALL MEET UTILITY REQUIREMENTS & INSPECTION. ELECTRICAL CONTRACTOR TO CO-ORDINATE WITH UTILITY PRIOR TO PROCEEDING.

C2 SUPPLY AND INSTALLATION OF SECONDARY DUCTBANK FROM TRANSFORMER TO MAIN SWITCHBOARD.

C3 SUPPLY AND INSTALLATION OF SECONDARY CABLES AT 208V MAIN SWITCHBOARD. PROVIDE 26'-0" (8000mm) SLACK CONDUCTORS AT TRANSFORMER BASE.

C4 INSTALLATION OF SERVICE GROUND AT 208V SWITCHBOARD PER ELECTRICAL CODE AND AS SHOWN. PROVIDE COORDINATION STUDY PER SPECIFICATIONS.

C5 SUPPLY AND INSTALLATION OF METER CABINET PER PLANS AND TO SUIT UTILITY REQUIREMENTS.

C6 SUPPLY AND INSTALLATION OF CONDUIT TO REMOTE METERING ANTENNA AS SHOWN, AND INSTALLATION OF ANTENNA AND COAX CABLE PROVIDED BY UTILITY.

C7 SUPPLY AND INSTALLATION OF PRIMARY DUCTBANK.

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Professional Engineers Ontario
03-27-2025
Limited Engineering Licensee
Name: D.G. MCCONKEY
Number: 100230476
Limitations: Detailed design, reporting, and specifications for all building electrical systems, site servicing and review of conformity for these systems in new and renovation construction.
Association of Professional Engineers of Ontario

CRESTVIEW OFFICE RENOVATION & HVAC UPGRADE

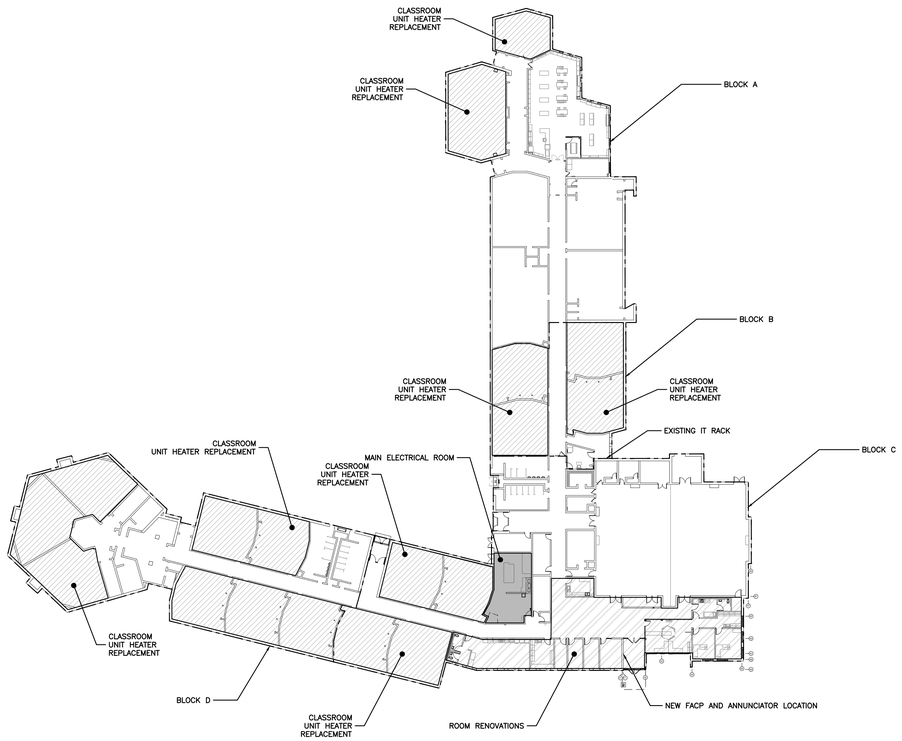
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ELECTRICAL SITE PLAN

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REVIT FILE	-



A-KEYPLAN
SCALE: 1:400

ELECTRICAL SYMBOLS

NOTE: ALL SYMBOLS MAY NOT BE USED

FIRE ALARM		LIGHTING		POWER	
	HEAT DETECTOR (135 DEGREE RATE OF RISE AND FIXED TEMPERATURE)	X	LIGHT FIXTURE TYPE AS INDICATED		WALL MOUNTED RECEPTACLE (15A–120V)
	DUCT TYPE SMOKE DETECTOR	X	LIGHT FIXTURE (HATCHING DENOTES NIGHTLIGHT)		WALL MOUNTED T–SLOT RECEPTACLE (20A–120V)
	SMOKE DETECTOR (RL=RELAY BASE)	EM–X DC–X X–Y	COMBINATION EMERGENCY/EXIT TYPE AS INDICATED (EM–X INDICATES BATTERY UNIT TYPE, DC–X INDICATES DC CIRCUIT, AND X–Y INDICATES AC SOURCE CIRCUIT)		T–SLOT RECEPTACLE MTD. ABOVE COUNTER (20A–120V)
	PULLSTATION				RECEPTACLE MTD. ABOVE COUNTER S=SPLIT (15A–120V)
	ALARM BELL		CEILING OR WALL MOUNTED LIGHT FIXTURE TYPE AS INDICATED	ST	STOVE RECEPTACLE
	ALARM HORN		WALL MOUNTED EXIT LIGHT SHADING INDICATES FACE	DR	DRYER RECEPTACLE
	ALARM STROBE		CEILING MOUNTED EXIT LIGHT ARROWS DENOTE DIRECTION SHADING INDICATES FACE		SPECIAL RECEPTACLE
	COMBINATION HORN/STROBE		SINGLE OR TWIN EMERGENCY LIGHTING FIXTURE		QUAD RECEPTACLE
DH	DOOR HOLD OPEN DEVICE	EM–X DC–X X–Y	BATTERY UNIT WITH INTEGRAL EMERGENCY FIXTURE (EM–X INDICATES BATTERY UNIT TYPE, DC–X INDICATES DC CIRCUIT, AND X–Y INDICATES AC SOURCE CIRCUIT)		WALL MOUNTED DUPLEX RECEPTACLE C/W TOP HALF SWITCHED (15A–120 VOLT)
FSD	FIRE SMOKE DAMPER				DIRECT CONNECTION
SECURITY		$	SINGLE POLE SWITCH (3=3 WAY, 4=4 WAY, P=PILOT LIGHT, K=KEYED, DM=DIMMER, M=MOTOR RATED)		FLOOR BOX C/W DEVICES AS NOTED (REFER TO SPECIFICATIONS)
	SECURITY DETECTOR (SURFACE MOUNTED)	$ OS	OCCUPANCY SENSOR (PASSIVE)	JB	JUNCTION BOX
DC	DOOR CONTACT C/W 19mmC TO NEAREST SECURITY JUNCTION BOX (REFER TO DETAIL)	OSD/OSR $	OCCUPANCY SENSOR: OSD=DUAL TECHNOLOGY OSR=DUAL CIRCUIT/DUAL TECHNOLOGY	PB	PULLBOX
ACCESS CONTROL		OS	CEILING MOUNTED MOTION SENSOR		PANEL AS INDICATED
ML	MAG LOCK	WOS	WALL MOUNTED MOTION SENSOR		FUSED DISCONNECT
ES	ELECTRIC STRIKE. CONFIRM ROUGHIN WITH DOOR HARDWARE.	DR	DIGITAL ROOM CONTROLLER		UNFUSED DISCONNECT
PTL	"PUSH–TO–LOCK" BUTTON	DM	DIGITAL WALL DIMMER STATION	VFD	VARIABLE FREQUENCY DRIVE
EM	EMERGENCY PUSH BUTTON STATION	NB	LIGHTING NETWORK BRIDGE	SPD	SURGE PROTECTION DEVICE. REFER TO SPECIFICATIONS.
DL	"ASSISTANCE REQUIRED" DOME LIGHT WITH SOUNDER	EM	EMERGENCY LIGHTING RELAY	DVR	DUAL VOLTAGE RELAY
	"ASSISTANCE REQUIRED" INDICATOR LIGHT WITH SOUNDER	PPK	ANALOG POWER PACK		TIME CLOCK
CR	CARD/FOB READER ROUGH–IN AS A SINGLE GANG BOX AT 1100mm AFF C/W 13mmC TO ELECTRIC STRIKE IN ADJACENT DOOR FRAME. CONFIRM ROUGH–IN WITH DOOR HARDWARE.	GENERAL			0–15 MINUTE INTERVAL TIMER
		ER	INDICATES EXISTING ITEM TO REMAIN	S	SPEED CONTROLLER
COMMUNICATIONS		D	INDICATES EXISTING ITEM TO BE DELETED		MANUAL STARTER
VOICE DATA	COMBINATION SINGLE VOICE/ SINGLE COMPUTER OUTLET UNLESS OTHERWISE NOTED C/W 1" (27mm) C TO CABLE MANAGEMENT SYSTEM. # INDICATES THE QUANTITY OF ACTIVE PORTS. LEFT VALUE ALWAYS INDICATES VOICE.	R	INDICATES EXISTING ITEM TO BE RELOCATED/IN RELOCATED POSITION		MAGNETIC STARTER
		WG	WIREGUARD		COMBINATION MAGNETIC STARTER
WAP	WIRELESS ACCESS POINT. PROVIDE ¾" (21mm) C TO CABLE MANAGEMENT SYSTEM	GF	GROUND FAULT		DESTRATIFICATION FAN
	CLOCK AS PER SPECIFICATIONS	WP	WEATHERPROOF		SURFACE RACEWAY C/W DEVICES AS NOTED (REFER TO SPECIFICATIONS)
TV	TELEVISION OUTLET C/W 1"C (27mm) TO CABLE MANAGEMENT SYSTEM.	IG	ISOLATED GROUND	HD	HAND DRYER
	HANGER SYSTEM (REFER TO DETAILS)	SR	SURGE PROTECTED		PUSH–BUTTON STATION (QUANTITY OF BUTTONS AS PER PLANS)
	ADMINISTRATIVE CONTROL CONSOLE	TR	TAMPER RESISTANT		CONTACTOR
	HANDSET (ND = NON–DIAL STYLE)	CLG	CEILING MOUNTED		MOTOR CONNECTION
PA	P.A. CALL SWITCH	X	NOTE INDICATOR	PP	POWER POLE
CS	WALL MOUNTED SPEAKER (CS=COLUMN SPEAKER)	X	MECHANICAL ITEM NO.	RA	THERMOSTAT (RA=REVERSE ACTING)
	WALL MOUNTED SPEAKER C/W CALL–IN SWITCH		OWNERS EQUIPMENT ITEM NO.		SOLENOID VALVE
	CEILING MOUNTED SPEAKER	STANDARD CIRCUIT LABELING			CURRENT SENSOR
	MICROPHONE OUTLET	A–1–1 POWER PANEL LABEL; CIRCUIT INDICATION; SWITCH LEG (IF APPLICABLE)			TRANSFORMER
	AUXILIARY ROUGH–IN FOR USE AS NOTED.				

NO.	DESCRIPTION	DATE
1	ISSUED FOR TENDER	03.27.25

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Name: D.G. MCCONNKEY
Number: 100230476
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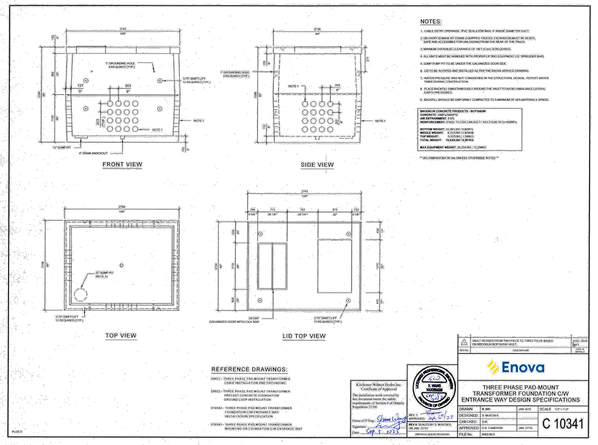
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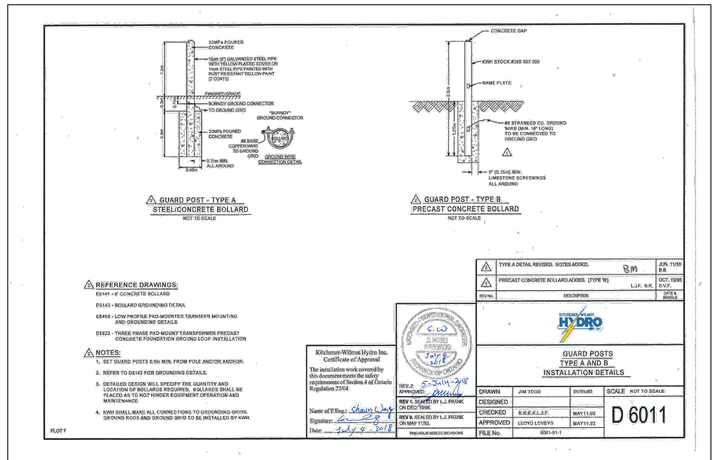
ELECTRICAL KEYPLAN AND LEGEND

DEI Consulting Engineers
MECHANICAL | ELECTRICAL | AQUATIC
55 Northland Road, Waterloo, ON N2V 1Y8
Phone: 519-745-1555
Website: deiassociates.ca
Project Number: 24113

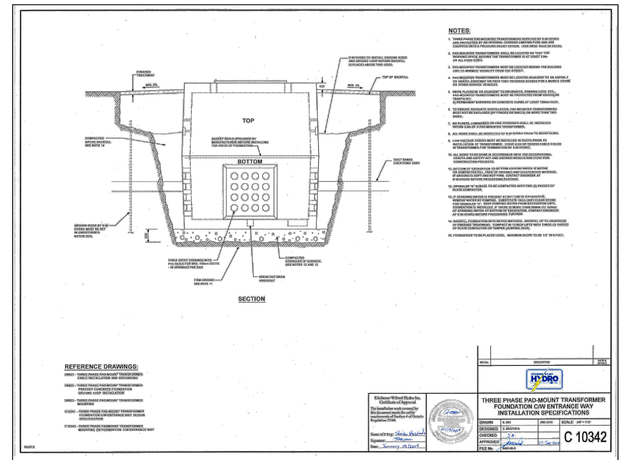
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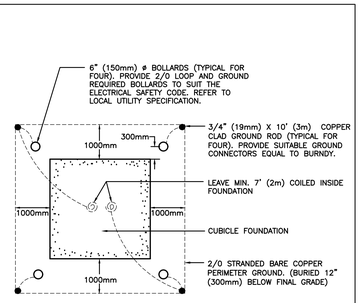
A–TRANSFORMER BASE DETAIL
SCALE: NTS



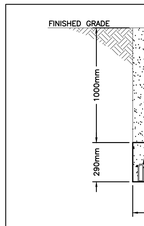
B–DETAIL FOR GUARD POST INSTALLATION AND GROUNDING
SCALE: NTS



C–TRANSFORMER BASE DETAIL
SCALE: NTS

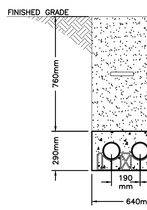


D–3PH PAD MTD. TRANSFORMER GROUNDING
SCALE: NTS



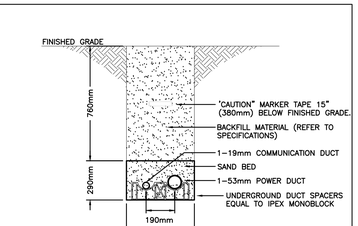
1. ENCASE DUCTS IN 20 MPa CONCRETE ON 1/2" (13mm) PEA GRAVEL.
2. SLOPE DUCT BANK A MIN. OF 3" (75mm) PER 100' (30.5m) (AWAY FROM BUILDING).
3. CONCRETE ENCASED DUCTS SHALL BE CSA APPROVED PVC TYPE II.
4. DUCTS NOT ENCASED IN CONCRETE SHALL BE CSA APPROVED RIGID PVC TYPE.
5. PROVIDE 1–3/16" (4.75mm) MIN. POLYPROPYLENE FISH ROPE IN EACH CONCRETE ENCASED OR DIRECT BURIED DUCT. DUCT ENDS MUST BE SEALED WITH AN APPROVED DUCT PLUG.

E–PRIMARY DUCTBANK DETAIL
SCALE: NTS



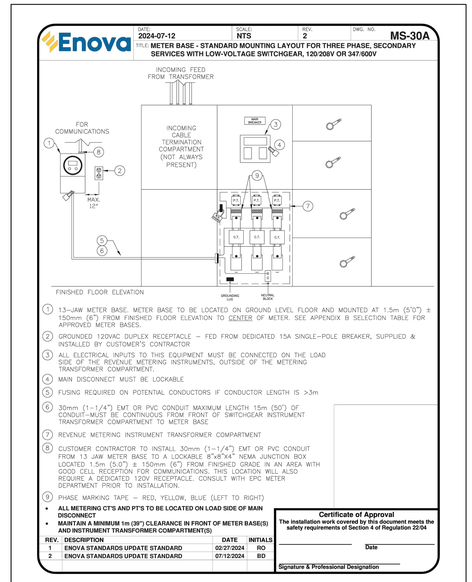
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5. PROVIDE 1–3/16" (4.75mm) MIN. POLYPROPYLENE FISH ROPE IN EACH CONCRETE ENCASED OR DIRECT BURIED DUCT. DUCT ENDS MUST BE SEALED WITH AN APPROVED DUCT PLUG.

F–SECONDARY DUCTBANK DETAIL
SCALE: NTS



1. SLOPE DUCT BANK A MIN. OF 3" (75mm) PER 100' (30.5m) (AWAY FROM BUILDING).
2. DUCTS SHALL BE CSA APPROVED RIGID PVC TYPE.
3. PROVIDE 1–3/16" (4.75mm) MIN. POLYPROPYLENE FISH ROPE IN EACH DIRECT BURIED DUCT. DUCT ENDS MUST BE SEALED WITH AN APPROVED DUCT PLUG.
4. CONCRETE ENCASED DUCTS SHALL BE CSA APPROVED PVC TYPE II.

G–PYLON AND EV CHARGER DUCTBANK
SCALE: NTS



H–SWITCHBOARD STANDARDS
SCALE: NTS

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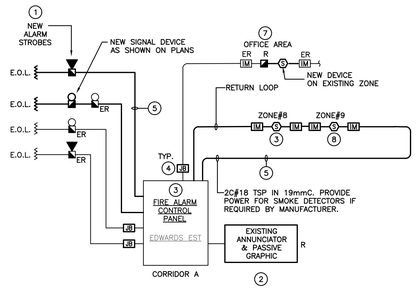
153 Montcalm Drive, Kitchener, ON, N2B 2R6

Waterloo Region District School Board

ELECTRICAL SITE DETAILS

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ALL EXISTING ZONES ARE NOT SHOWN ON RISER. OBTAIN COPY OF EXISTING GRAPHIC AND UPDATE TO SUIT NEW LAYOUT AND ADDITIONAL ZONES. SUBMIT SHOP DRAWING. INCLUDE FOR INTEGRATED LIFE SAFETY TESTING PER SPECIFICATIONS

NOTES

1 ELECTRICAL CONTRACTOR IS TO PROVIDE BOOSTER MODULE FOR NEW SIGNAL CIRCUIT AND EXISTING SIGNAL CIRCUIT TO SUPPORT ADDITIONAL SIGNAL DEVICES. PROVIDE 15A-1P BREAKER IN NEAREST 120/208V PANEL FOR BOOSTER MODULE. UPDATE PANEL SCHEDULES ACCORDINGLY.

2 INDICATES EXISTING PASSIVE GRAPHIC TO BE REVISED WITH NEW FIRE ALARM ZONE(S), PROVIDE ALTERNATIVE LAYOUT FOR EACH PASSIVE GRAPHIC ORIENTATION VIA SHOP DRAWING SUBMISSION. REVISE ORIENTATION AND "YOU ARE HERE" LOCATION TO SUIT.

3 PROVIDE NEW ALARM ZONES "ELECTRICAL ROOM A119". UPDATE ANNUNCIATOR ACCORDINGLY.

4 INDICATES NEW JUNCTION BOX C/W TERMINAL BLOCK FOR EXTENSION OF SIGNAL AND INITIATING CIRCUIT WIRING IN ACCESSIBLE LOCATION ABOVE DEMOLISHED FIRE ALARM CONTROL PANEL.

5 PROVIDE NEW FIRE ALARM LOOP FOR NEW DEVICES, CONFIRM WIRING REQUIREMENTS WITH RESPECTIVE SYSTEM MANUFACTURER.

6 PROVIDE NEW ALARM ZONES "WATER ROOM A104". UPDATE ANNUNCIATOR ACCORDINGLY.

7 INDICATE EXISTING DEVICE(S) TO BE RE-VERIFIED AS PART OF FIRE ALARM CONTROL PANEL RELOCATION.

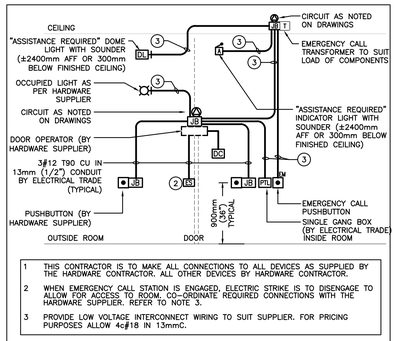
FIRE ALARM ANNUNCIATOR SCHEDULE

Zone	Description		Alarm	Supervisory
1	WEST WING	(EX)	•	
2	OFFICE AREA	(EX)	•	
3	SOUTH WING	(EX)	•	
4	GYM AREA	(EX)	•	
5	STANDPIPE ESV #1 GYM 'A' STORAGE	(EX)		•
6	STANDPIPE ESV #2 GYM 'A' STORAGE	(EX)		•
7	MAIN VALAVE ESV BOY'S CHANGE ROOM	(EX)		•
8	ELECTRICAL ROOM A119		•	
9	WATER ROOM A104		•	

– "EX" DENOTES EXISTING ZONE.
– ALL OTHER ZONES ARE TO BE CONSIDERED NEW

A–PARTIAL FIRE ALARM RISER

SCALE: N.T.S.



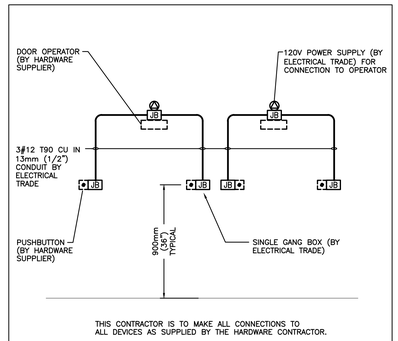
1 THIS CONTRACTOR IS TO MAKE ALL CONNECTIONS TO ALL DEVICES AS SUPPLIED BY THE HARDWARE CONTRACTOR. ALL OTHER DEVICES BY HARDWARE CONTRACTOR.

2 WHEN EMERGENCY CALL STATION IS ENGAGED, ELECTRIC STRIKE IS TO DISENGAGE TO ALLOW FOR ACCESS TO ROOM. CO-ORDINATE REQUIRED CONNECTIONS WITH THE HARDWARE SUPPLIER. REFER TO NOTE 3.

3 PROVIDE LOW VOLTAGE INTERCONNECT WIRING TO SUIT SUPPLIER. FOR PRICING PURPOSES ALLOW 4c#18 IN 13mmC.

B–EMERGENCY CALL / DOOR OPERATOR DETAIL

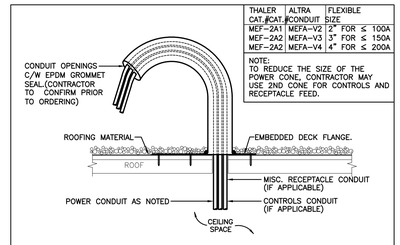
SCALE: NTS



THIS CONTRACTOR IS TO MAKE ALL CONNECTIONS TO ALL DEVICES AS SUPPLIED BY THE HARDWARE CONTRACTOR.

C–DOOR OPERATOR DETAIL

SCALE: NTS



THALER CAT.#	ALTRA CAT.#	FLEXIBLE CONDUIT SIZE
MEF-2A1	MEFA-V2	2" FOR ≤ 100A
MEF-2A2	MEFA-V3	3" FOR ≤ 150A
MEF-2A2	MEFA-V4	4" FOR ≤ 200A

NOTE:
TO REDUCE THE SIZE OF THE POWER CONE, CONTRACTOR MAY USE 2ND CONE FOR CONTROLS AND RECEPTACLE FEED.

COORDINATE EXACT CONE LOCATION WITH MECHANICAL TRADE. ROOF CONE SHALL BE ALUMINUM PRE-INSULATED FLASHING FOR MULTIPLE FLEXIBLE CONDUIT AS NOTED. ACCEPTABLE MANUFACTURERS ARE THALER METAL INDUSTRIES OR ALTRA METAL SPECIALTIES INC.

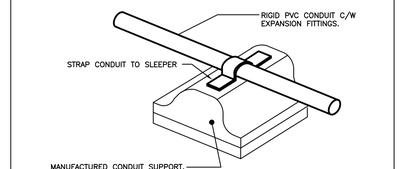
CONDUIT OPENING THROUGH ROOF DECK / MATERIAL IS TO BE PROVIDED BY THE GENERAL TRADE.

TURN OVER CONE TO ROOFER FOR INSTALLATION.

SUBMIT SHOP DRAWING AS PER THE SPECIFICATION.

D–ROOF PENETRATION DETAIL

SCALE: NTS



E–CONDUIT SUPPORT DETAIL

SCALE: NTS

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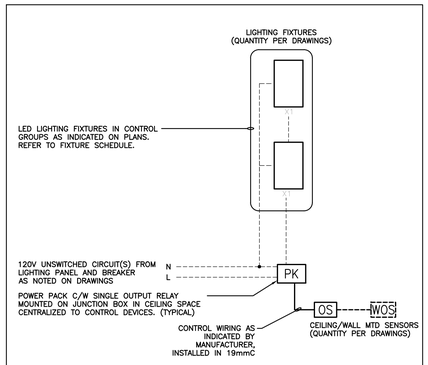
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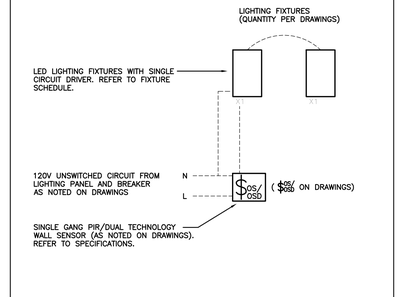
ELECTRICAL DETAILS

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Phone: 519-745-1555
Website: deiassociates.ca
Project Number: 24341

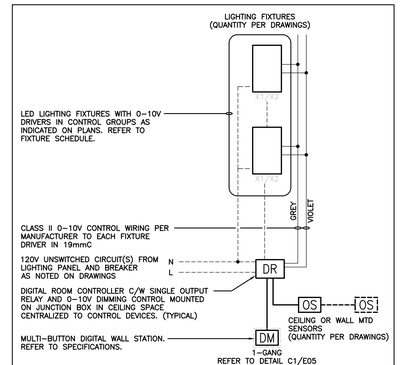
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A–STORAGE OCCUPANCY CONTROL
SCALE: N.T.S.



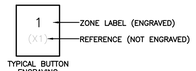
B–OCCUPANCY CONTROL – SINGLE RELAY
SCALE: N.T.S.



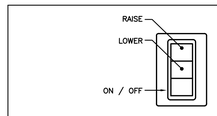
C–MULTI–LEVEL OCCUPANCY CONTROL
SCALE: N.T.S.

NOTES:

1. REFER TO LIGHTING PLANS FOR GROUPINGS.
2. WALL STATION BUTTONS TO BE ENGRAVED WITH LABELS ACCORDING TO LEVEL AS NOTED. COORDINATE LABELS WITH SCHOOL BOARD REPRESENTATIVE. PROVIDE BUTTON ENGRAVING WORKSHEET WITH SHOP DRAWING SUBMISSION FOR REVIEW. WORKSHEETS TO BE COMPLETED FOR EACH CONTROL STATION GROUP. USE SINGLE MULTI–GANG FACEPLATE, FINISH PER SPECIFICATIONS.
3. REFER TO SPECIFICATIONS FOR INFORMATION REGARDING PROGRAMMING OF INPUT DEVICES AND DIGITAL WALL STATIONS PER ROOM TYPE.



TYPICAL BUTTON ENGRAVING



C1–WALL STATION BUTTON CONFIGURATION
SCALE: N.T.S.

LIGHTING CONTROL SYSTEMS SEQUENCE OF OPERATION

Space Type	Room Names	Control Sequence / Control Device(s):	Control System
Enclosed Offices	TYPICAL MEETING ROOM	Sequence: ON: Lights turned on automatically via wall station(s). ADJUST: The occupant manually adjusts lighting within the room to desired level or preset in each group via wall dimmer. OFF: 15 minutes after the room has been vacated, the lights will automatically turn off.	DIGITAL ROOM CONTROL SYSTEM
Open Office/ Copy Room	OPEN OFFICE ADMINISTRATION, STAFF LOUNGE	Sequence: ON: Lights turned on automatically to 50% output setting via occupancy sensor. ADJUST: The occupant manually adjusts lighting within the room to desired level or preset in each group via wall scene station. OFF: 15 minutes after the room has been vacated, the lights will automatically turn off. OVERRIDE: User manually adjusts fixture zone lighting levels or on/off and that state shall remain without reverting to previous state unless sensors do not detect occupancy for 15 minutes, whereby normal sensor operation is to resume.	DIGITAL ROOM CONTROL SYSTEM
Washrooms	TYPICAL	Sequence: ON: Lights turned on automatically via occupancy sensor (where applicable). OFF: 15 minutes after the room has been vacated, the lights will automatically turn off.	LINE VOLTAGE OCCUPANCY CONTROL SYSTEM
Storage	TYPICAL	Sequence: ON: Lights turned on automatically via wall sensor switch. OFF: 15 minutes after the room has been vacated, the lights will automatically turn off.	LINE VOLTAGE OCCUPANCY CONTROL SYSTEM

SYSTEM DESCRIPTIONS:

DIGITAL ROOM CONTROL (DLM) SYSTEM

DIGITAL ROOM CONTROL RELAY POWER PACKS C/W PLUG AND PLAY DIGITAL SENSORS AND WALL MOUNT CONTROL STATIONS.

REFER TO SPECIFICATIONS SECTION 26 51 16.

LINE VOLTAGE OCCUPANCY CONTROL SYSTEM

LINE VOLTAGE WALL SENSOR SWITCHES AND LINE VOLTAGE POWER PACKS WITH HARD WIRED SENSORS.

REFER TO SPECIFICATIONS SECTION 26 05 75.

NO.	DESCRIPTION	DATE
1	ISSUED FOR TENDER	03.27.25

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Professional Engineers Ontario
03-27-2025
Limited Engineering Licensee
Name: D.G. MCCONKEY
Number: 100230476
Limitations: Detailed design, reporting, and specifications for all building electrical systems, site servicing and review of conformity for these systems in new and renovation construction
Association of Professional Engineers of Ontario

CRESTVIEW OFFICE RENOVATION & HVAC UPGRADE

153 Montcalm Drive, Kitchener, ON, N2B 2R6

Waterloo Region District School Board

ELECTRICAL LIGHTING DETAILS

DEI Consulting Engineers
MECHANICAL | ELECTRICAL | AQUATIC
55 Northland Road, Waterloo, ON N2V 1Y8
Phone: 519-745-3555
Website: deiassociates.ca
Project Number: 24343

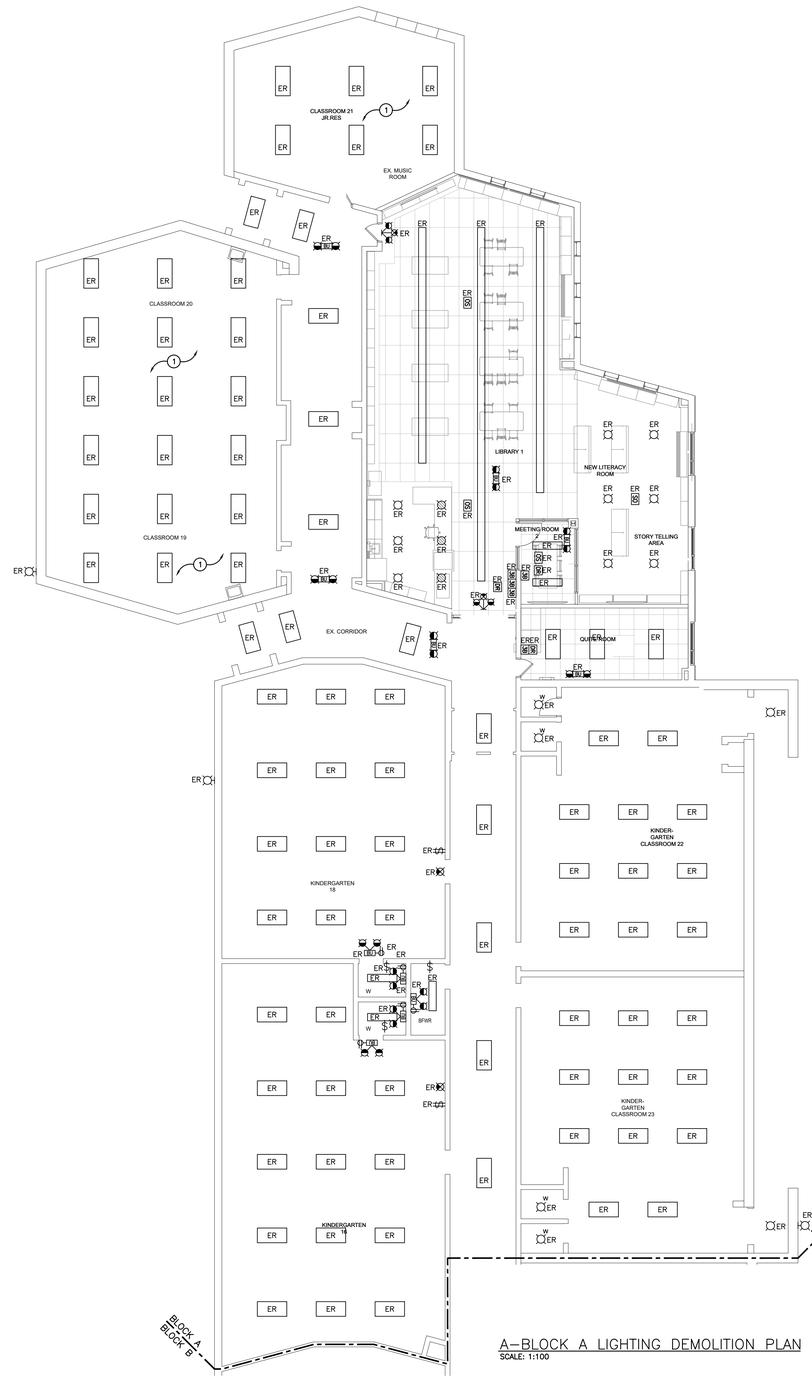
SCALE	As indicated
DATE	March 2025
DRAWN	T.M.
CHECKED	D.M.
PROJECT	24113
DRAWING	E05
PRINT DATE	-
REVIT FILE	-

GENERAL DEMOLITION NOTES

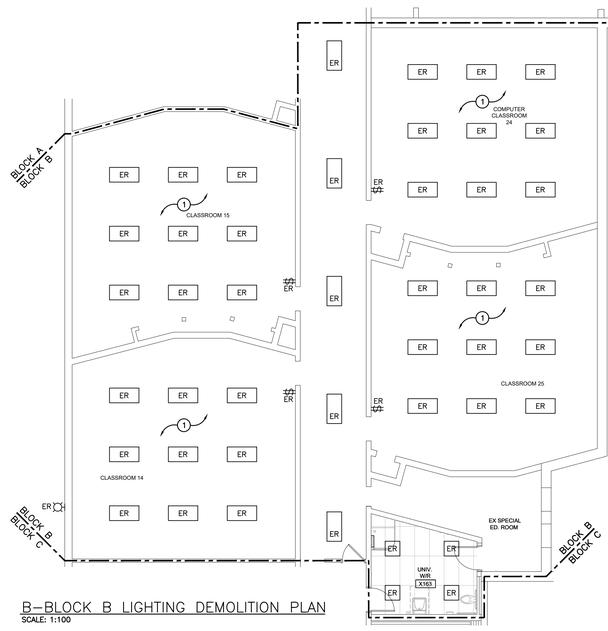
- 'ER' DENOTES EXISTING ITEM TO REMAIN.
- EXISTING ELECTRICAL EQUIPMENT NOT SHOWN SHALL REMAIN UNLESS NOTED OTHERWISE.
- 'R' INDICATES EXISTING ITEM TO BE RELOCATED. REFER TO RENOVATION DRAWINGS AND RELOCATE DEVICE AND WIRING TO SUIT. UNLESS OTHERWISE NOTED.
- 'D' INDICATES EXISTING ITEM TO BE DELETED. 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

1 FIXTURES WITHIN THIS AREA ARE TO BE DISCONNECTED AND REMOVED AS REQUIRED TO ALLOW FOR NEW PIPING TO BE INSTALLED TO CONDENSATE UNIT ON ROOF. RE-INSTALL FIXTURE IN PLACE AFTER RENOVATION WORK IS COMPLETE.

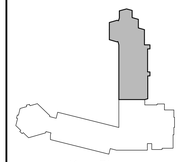


A–BLOCK A LIGHTING DEMOLITION PLAN
SCALE: 1:100



B–BLOCK B LIGHTING DEMOLITION PLAN
SCALE: 1:100





Key Plan

NO.	DESCRIPTION	DATE
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Association of Professional Engineers of Ontario
03-27-2025

CRESTVIEW OFFICE RENOVATION & HVAC UPGRADE

153 Montcalm Drive, Kitchener, ON, N2B 2R6

Waterloo Region District School Board

BLOCK A & B LIGHTING DEMOLITION PLAN

DEI Consulting Engineers
MECHANICAL | ELECTRICAL | AQUATIC
55 Northland Road, Waterloo, ON N2V 1Y8
Phone: 519-725-3555
Website: deiassociates.ca
Project Number: 24343

SCALE: As indicated	PROJECT: 24113
DATE: March 2025	
DRAWN: T.M.	DRAWING: E06
CHECKED: D.M.	
PRINT DATE	-
REVIT FILE	-

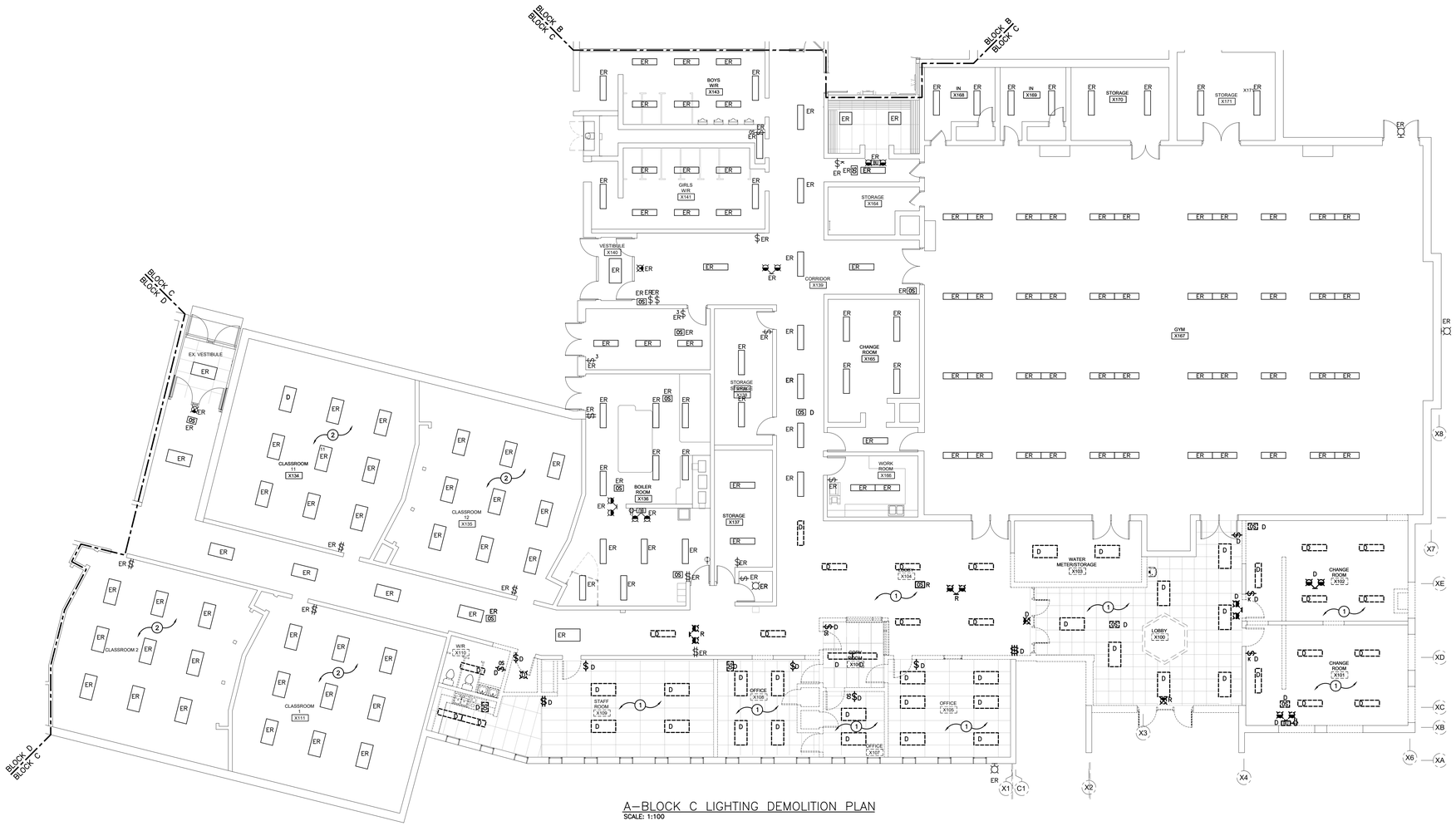
GENERAL DEMOLITION NOTES

- 'ER' DENOTES EXISTING ITEM TO REMAIN.
- EXISTING ELECTRICAL EQUIPMENT NOT SHOWN SHALL REMAIN UNLESS NOTED OTHERWISE.
- 'R' INDICATES EXISTING ITEM TO BE RELOCATED. REFER TO RENOVATION DRAWINGS AND RELOCATE DEVICE AND WIRING TO SUIT. UNLESS OTHERWISE NOTED.
- '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

1 FIXTURES WITHIN THIS AREA ARE TO BE DISCONNECTED AND REMOVED COMPLETE. MAINTAIN WIRING FOR CONNECTION TO NEW FIXTURES AND CONTROLS AS NOTED ON THE RENOVATION DRAWINGS. INCLUDE FOR DISPOSAL OF ALL FLOURESCENT BULBS, ANY LED BULBS ARE TO BE TURNED OVER TO SCHOOL BOARD.

2 FIXTURES WITHIN THIS AREA ARE TO BE DISCONNECTED AND REMOVED AS REQUIRED TO ALLOW FOR NEW PIPING TO BE INSTALLED TO CONDENSATE UNIT ON ROOF. RE-INSTALL FIXTURE IN PLACE AFTER RENOVATION WORK IS COMPLETE.



A-BLOCK C LIGHTING DEMOLITION PLAN
SCALE: 1:100



Key Plan

NO.	DESCRIPTION	DATE
1	ISSUED FOR TENDER	03.27.25

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03-27-2025
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Number: 100230476
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Association of Professional Engineers of Ontario

CRESTVIEW OFFICE RENOVATION & HVAC UPGRADE

153 Montcalm Drive, Kitchener, ON, N2B 2R6

Waterloo Region District School Board

BLOCK C LIGHTING DEMOLITION PLAN

DEI Consulting Engineers
MECHANICAL | ELECTRICAL | AQUATIC
55 Northland Road, Waterloo, ON N2V 1Y8
Phone: 519-725-3555
Website: deiassociates.ca
Project Number: 24343

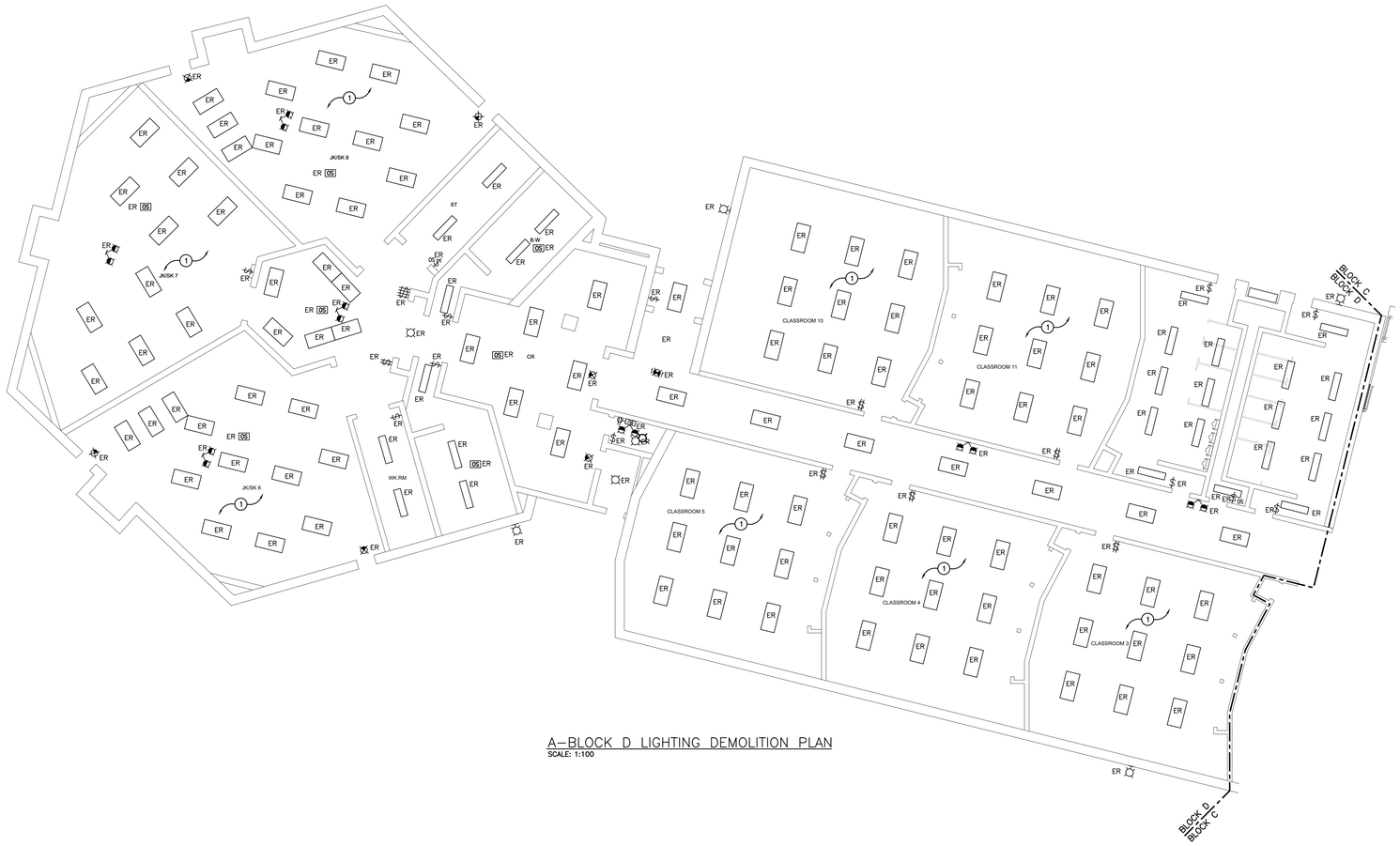
SCALE	As indicated
DATE	March 2025
DRAWN	T.M.
CHECKED	D.M.
PRINT DATE	-
REVIT FILE	-
PROJECT	24113
DRAWING	E07

GENERAL DEMOLITION NOTES

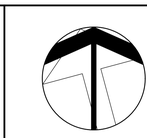
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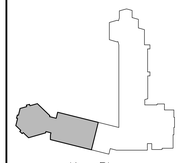
SPECIFIC DEMOLITION NOTES

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A-BLOCK D LIGHTING DEMOLITION PLAN
SCALE: 1:100





Key Plan

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Association of Professional Engineers of Ontario

CRESTVIEW OFFICE RENOVATION & HVAC UPGRADE

153 Montcalm Drive, Kitchener, ON, N2B 2R6

Waterloo Region District School Board

BLOCK D LIGHTING DEMOLITION PLAN

DEI Consulting Engineers
MECHANICAL | ELECTRICAL | AQUATIC
55 Northland Road, Waterloo, ON N2V 1Y8
Phone: 519-745-3555
Website: deiassociates.ca
Project Number: 24241

SCALE: As indicated	PROJECT: 24113
DATE: March 2025	
DRAWN: T.M.	DRAWING: E08
CHECKED: D.M.	
PRINT DATE	-
REVIT FILE	-

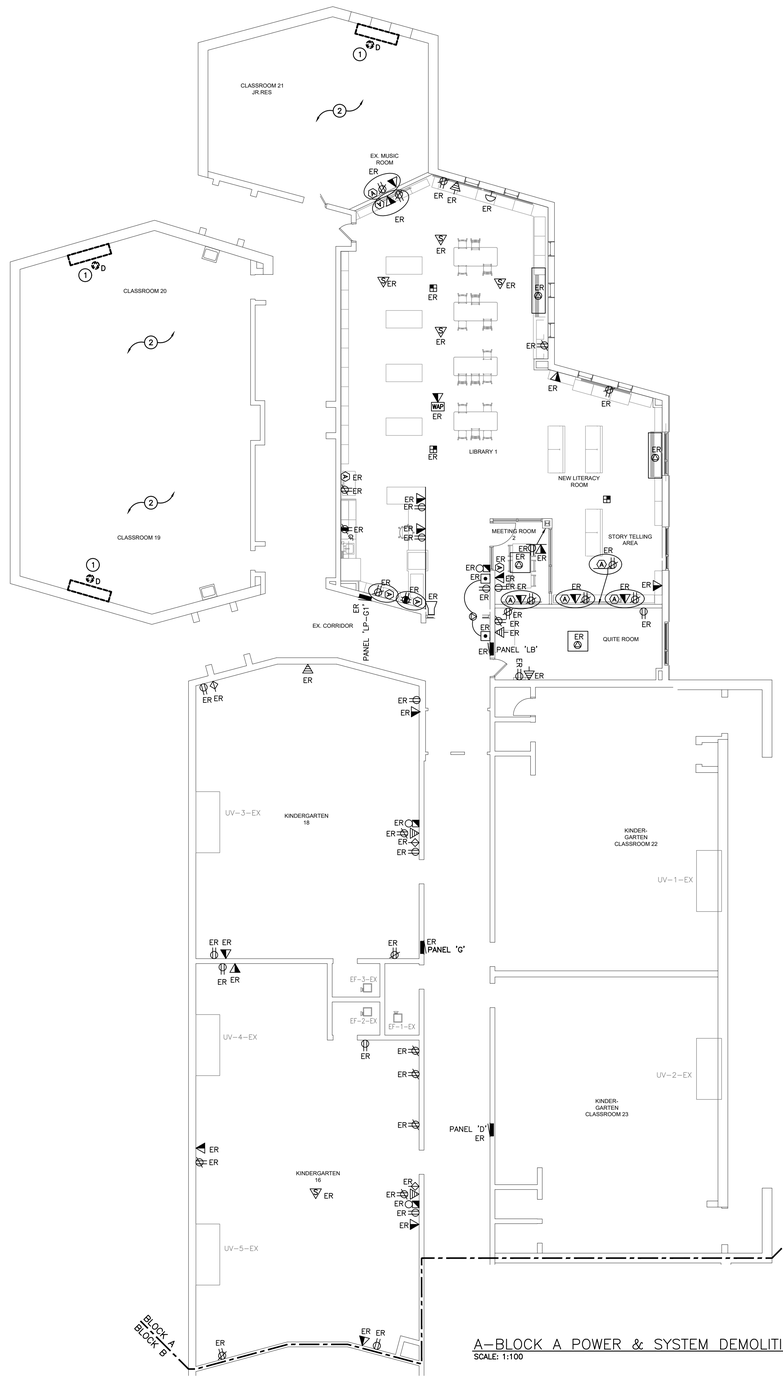
GENERAL DEMOLITION NOTES

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- 'R' INDICATES EXISTING ITEM TO BE RELOCATED. REFER TO RENOVATION DRAWINGS AND RELOCATE DEVICE AND WIRING TO SUIT. UNLESS OTHERWISE NOTED.
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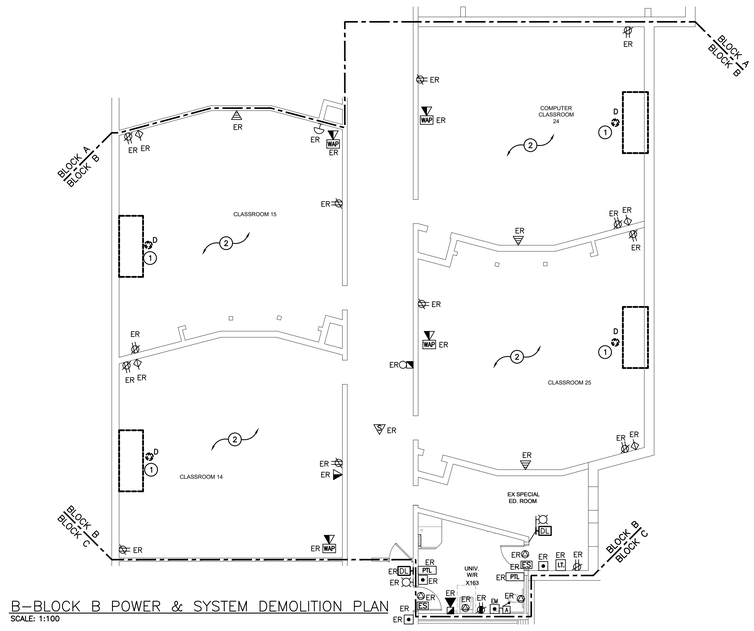
SPECIFIC DEMOLITION NOTES

1 INDICATES EXISTING UNIT VENTILATOR UNIT BEING REMOVED, REMOVE ANY DISCONNECT OR CONTROL DEVICES, REMOVE FEEDER BACK TO SOURCE AND MAKE SAFE ALL CONNECTIONS.

2 ELECTRICAL CONTRACTOR TO REMOVE ANY CEILING DEVICES AS REQUIRED TO ALLOW FOR NEW PIPING UP TO ROOF TOP UNITS WITHIN AREA. RE-INSTALL AFTER PIPING INSTALLATION IS COMPLETE.



A-BLOCK A POWER & SYSTEM DEMOLITION PLAN
SCALE: 1:100



B-BLOCK B POWER & SYSTEM DEMOLITION PLAN
SCALE: 1:100

Key Plan

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CRESTVIEW OFFICE RENOVATION & HVAC UPGRADE

153 Montcalm Drive, Kitchener, ON, N2B 2R6

Waterloo Region District School Board

BLOCK A & B POWER & SYSTEMS DEMOLITION PLAN

DEI Consulting Engineers
MECHANICAL | ELECTRICAL | AQUATIC
55 Northland Road, Waterloo, ON N2V 1Y8
Phone: 519-725-3555
Website: deiassociates.ca
Project Number: 24343

SCALE	As indicated
DATE	March 2025
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PRINT DATE	-
REVIT FILE	-
PROJECT	24113
DRAWING	E09

GENERAL DEMOLITION NOTES

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- ALL LIGHTING FIXTURES BEING RELOCATED SHALL BE CLEANED AND CHECKED PRIOR TO BEING REINSTALLED.

SPECIFIC DEMOLITION NOTES

1 INDICATES EXISTING UNIT VENTILATOR UNIT BEING REMOVED, REMOVE ANY DISCONNECT OR CONTROL DEVICES, REMOVE FEEDER BACK TO SOURCE AND MAKE SAFE ALL CONNECTIONS.

2 ALL DEVICES WITHIN INDICATED ROOMS ARE TO BE DEMOLISHED.

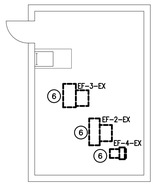
3 INDICATES EXISTING I.T. DATA RACK TO BE RELOCATED TO NEW LOCATION. REFER TO RENOVATION PLANS. ELECTRICAL CONTRACTOR MUST COORDINATE SHUT DOWN WITH SCHOOL BOARD PRIOR TO ANY WORK COMMENCING.

4 INDICATES EXISTING P.A. SYSTEM DEVICES TO BE RELOCATE TO NEW LOCATION. REFER TO RENOVATION PLANS.

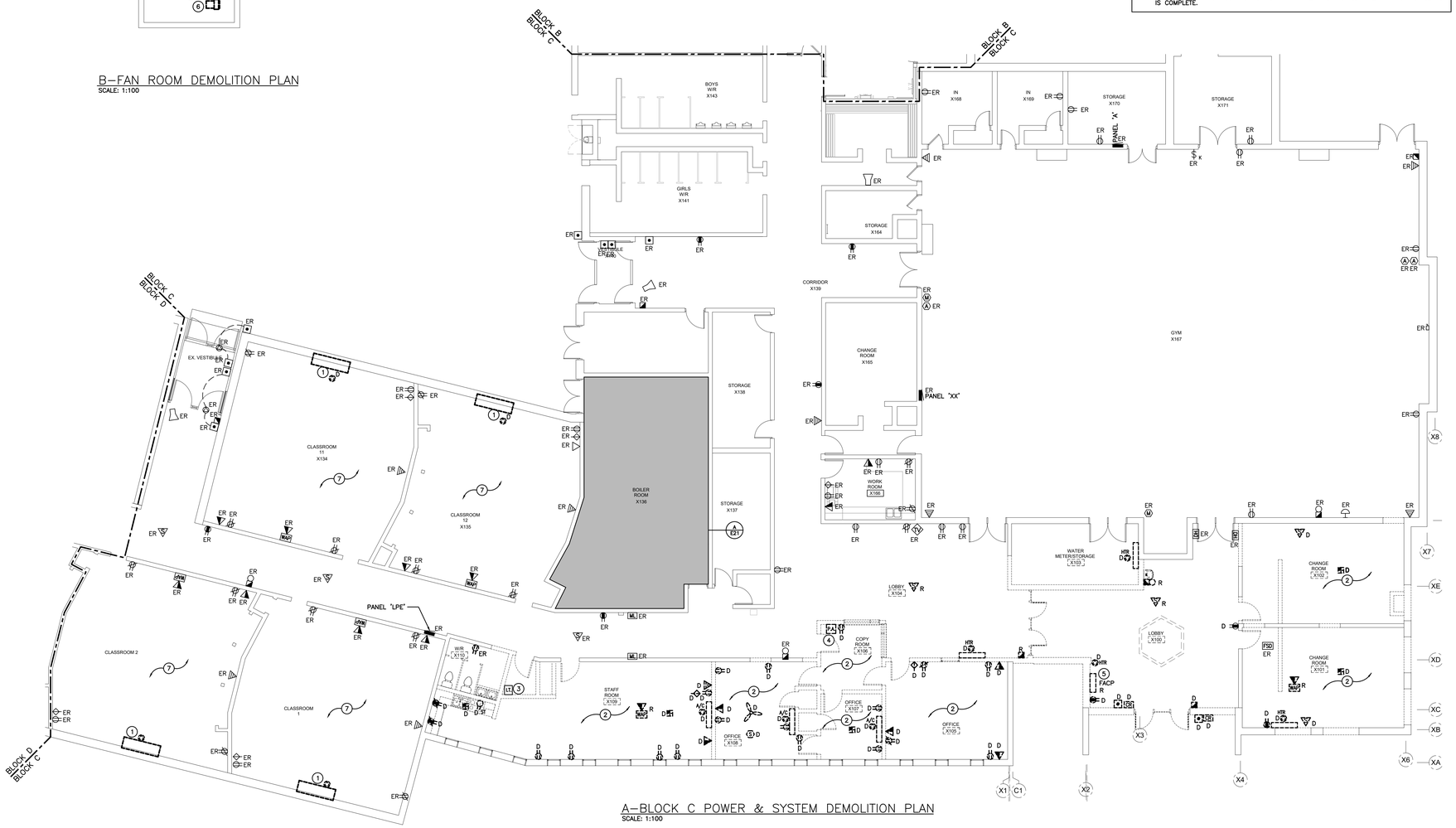
5 INDICATES EXISTING EDWARDS EST3 FIRE ALARM CONTROL PANEL TO BE RELOCATED TO NEW LOCATION IN VESTIBULE. REFER TO RENOVATION PLANS. EXTEND ALL CONNECTIONS. PULL UP ALL FIRE ALARM CIRCUITS INTO ACCESSIBLE CEILING SPACE. EXTEND TO NEW FIRE ALARM PANEL LOCATION INDICATED ON RENOVATION PLAN. NO SURFACE CONDUIT IN CORRIDOR WILL BE ACCEPTED. INCLUDE ADDITIONAL TIME FOR INCONSPICUOUS ROUTING IN TENDER.

6 INDICATES EXISTING EXHAUST FAN BEING REMOVED, REMOVE ANY DISCONNECT OR CONTROL DEVICES, REMOVE FEEDER BACK TO SOURCE AND MAKE SAFE ALL CONNECTION

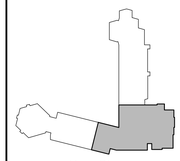
7 ELECTRICAL CONTRACTOR TO REMOVE ANY CEILING DEVICES AS REQUIRED TO ALLOW FOR NEW PIPING UP TO ROOF TOP UNITS WITHIN AREA. RE-INSTALL AFTER PIPING INSTALLATION IS COMPLETE.



B-FAN ROOM DEMOLITION PLAN
SCALE: 1:100







Key Plan

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CRESTVIEW OFFICE RENOVATION & HVAC UPGRADE

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Waterloo Region District School Board

BLOCK C
POWER & SYSTEMS DEMOLITION PLAN

DEI Consulting Engineers
MECHANICAL | ELECTRICAL | AQUATIC
55 Northland Road, Waterloo, ON N2V 1Y8
Phone: 519-725-3555
Website: deiassociates.ca
Project Number: 24343

SCALE	As indicated
DATE	March 2025
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PRINT DATE	-
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PROJECT	24113
DRAWING	E10

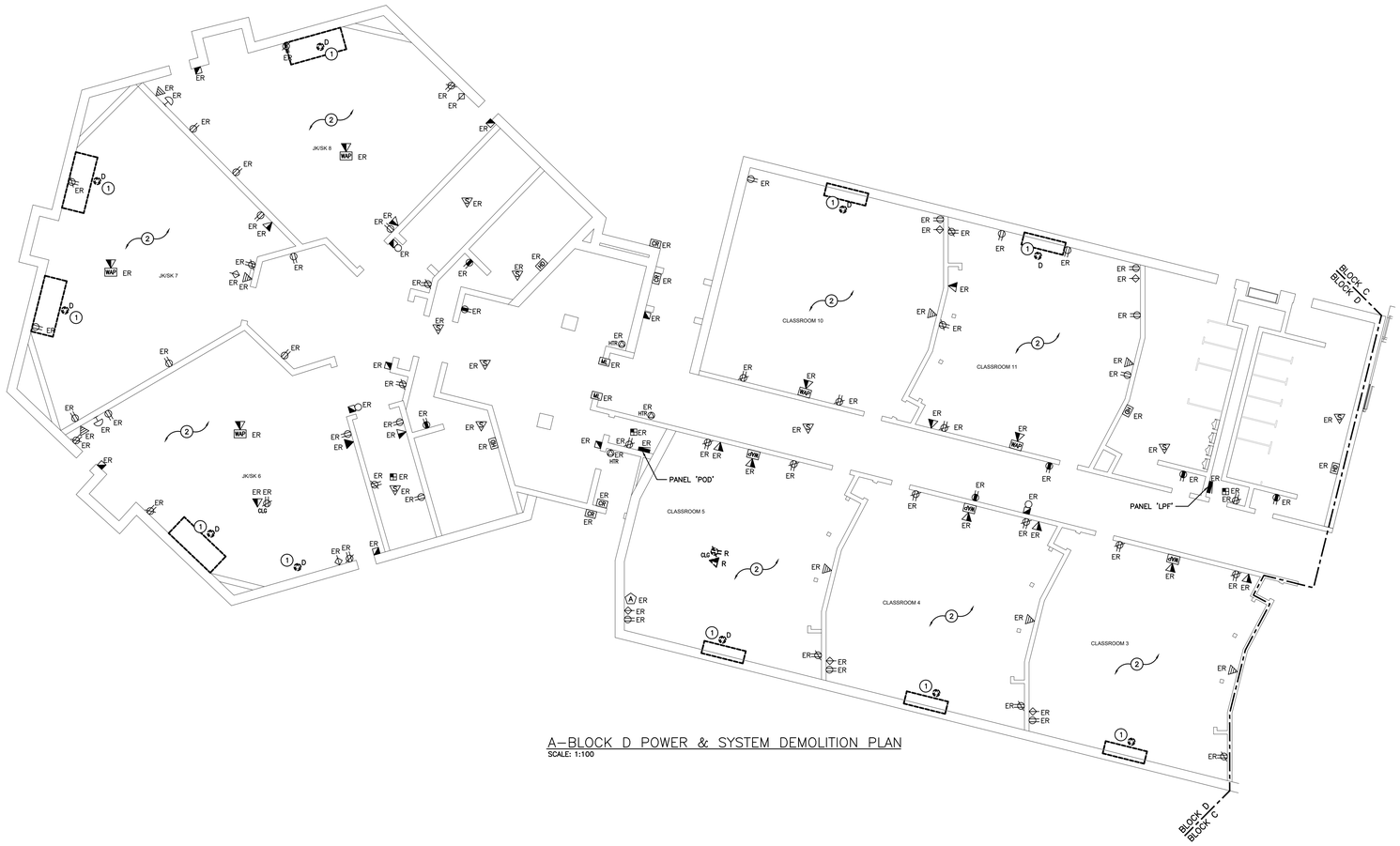
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SPECIFIC DEMOLITION NOTES

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2 ELECTRICAL CONTRACTOR TO REMOVE ANY CEILING DEVICES AS REQUIRED TO ALLOW FOR NEW PIPING UP TO ROOF TOP UNITS WITHIN AREA. RE-INSTALL AFTER PIPING INSTALLATION IS COMPLETE.



A—BLOCK D POWER & SYSTEM DEMOLITION PLAN
SCALE: 1:100

Key Plan

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BLOCK D
POWER & SYSTEMS DEMOLITION PLAN

DEI Consulting Engineers
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55 Northland Road, Waterloo, ON N2V 1Y8
Phone: 519-725-3555
Website: deiassociates.ca
Project Number: 24342

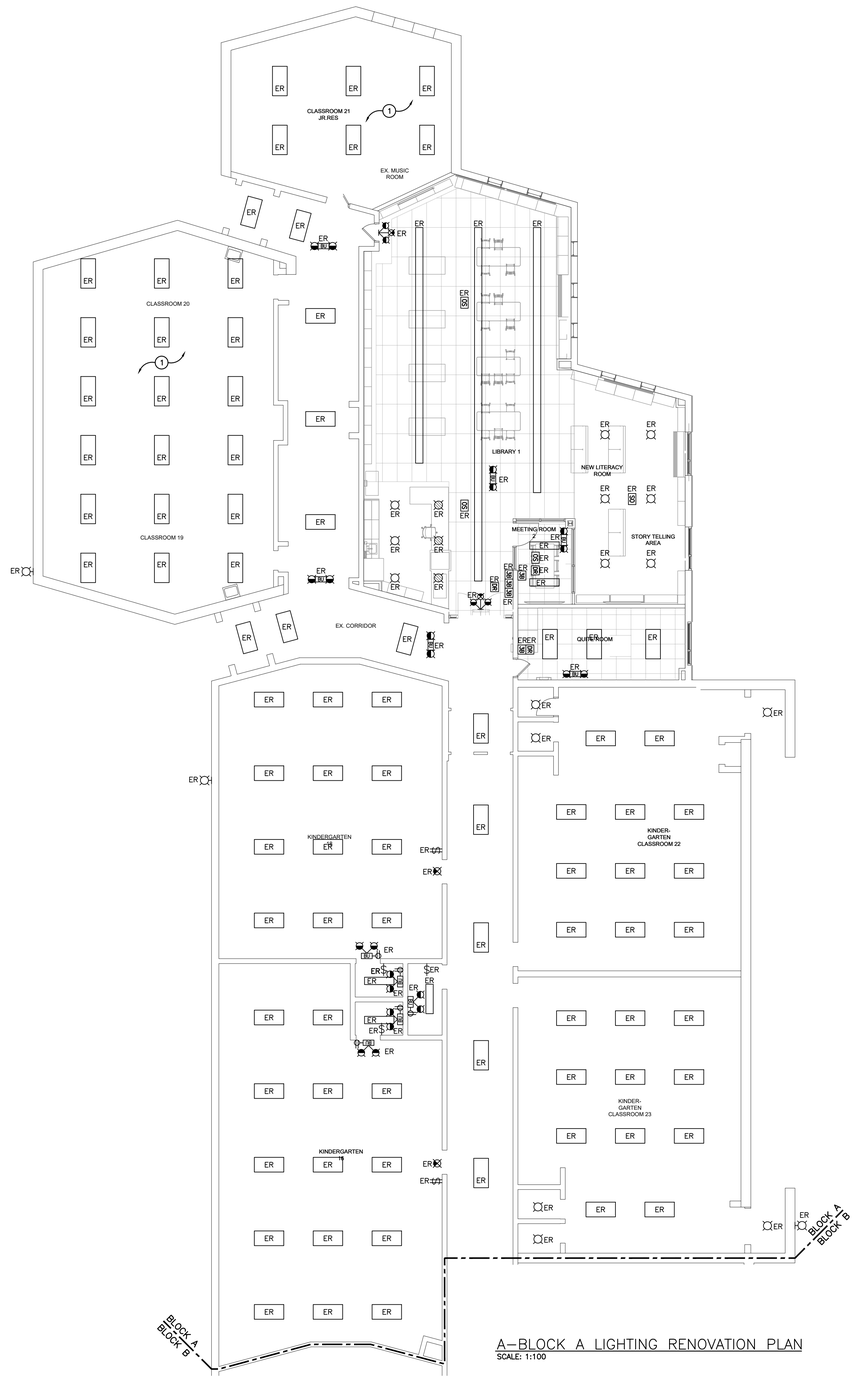
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DATE: March 2025	
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CHECKED: D.M.	
PRINT DATE: -	
REVIT FILE: -	

GENERAL RENOVATION NOTES

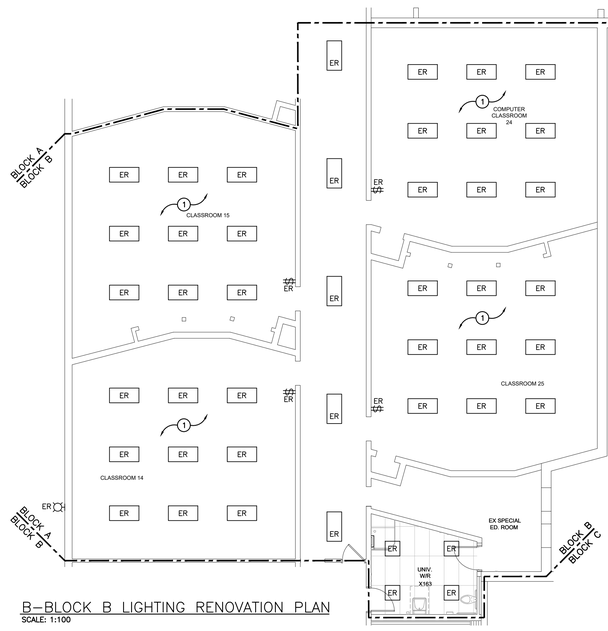
- 'ER' INDICATES EXISTING ITEM TO REMAIN.
- 'R' INDICATES EXISTING ITEM IN RELOCATED POSITION.
- ALL DEVICES SHOWN ARE NEW UNLESS OTHERWISE NOTED.
- EXISTING ELECTRICAL EQUIPMENT NOT SHOWN SHALL REMAIN UNLESS OTHERWISE NOTED.
- MAINTAIN SERVICE TO ALL EXISTING DEVICES TO REMAIN.
- REVISE PANEL DIRECTORIES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

SPECIFIC RENOVATION NOTES

1 FIXTURES WITHIN THIS AREA ARE TO BE DISCONNECTED AND REMOVED AS REQUIRED TO ALLOW FOR NEW PIPING TO BE INSTALLED TO CONDENSATE UNIT ON ROOF. RE-INSTALL FIXTURE IN PLACE AFTER RENOVATION WORK IS COMPLETE.

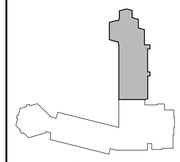


A-BLOCK A LIGHTING RENOVATION PLAN
SCALE: 1:100



B-BLOCK B LIGHTING RENOVATION PLAN
SCALE: 1:100





Key Plan

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Name: D.G. MCCONKEY
Number: 100230475
Limitations: Detailed design, reporting, and specifications for all building electrical systems, site servicing and review of conformity for these systems in new and renovation construction
Association of Professional Engineers of Ontario
03.27.2025
LAST DATE

CRESTVIEW OFFICE RENOVATION & HVAC UPGRADE

153 Montcalm Drive, Kitchener, ON, N2B 2R6

Waterloo Region District School Board

BLOCK A & B LIGHTING RENOVATION PLAN

DEI Consulting Engineers
MECHANICAL | ELECTRICAL | AQUATIC
55 Northland Road, Waterloo, ON N2V 1Y8
Phone: 519-725-3555
Website: deiassociates.ca
Project Number: 24343

SCALE	As indicated
DATE	March 2025
DRAWN	T.M.
CHECKED	D.M.
PRINT DATE	-
REVIT FILE	-
PROJECT	24113
DRAWING	E12

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

1 FIXTURES WITHIN THIS AREA ARE TO BE DISCONNECTED AND REMOVED AS REQUIRED TO ALLOW FOR NEW PIPING TO BE INSTALLED TO CONDENSATE UNIT ON ROOF. RE-INSTALL FIXTURE IN PLACE AFTER RENOVATION WORK IS COMPLETE.

2 MOUNT NEW DIGITAL LIGHTING SWITCH IN EXISTING BACKBOX MADE AVAILABLE DURING DEMOLITION. PROVIDE CUSTOM COVER PLATE AS REQUIRED.

3 INDICATES FIXTURES TO BE CONNECTED TO EXISTING CIRCUIT AND EXISTING CONTROLS MADE AVAILABLE DURING DEMOLITION.

4 INDICATES NEW EMERGENCY FIXTURE TO BE CONNECTED TO UNSWITCHED SIDE OF LOCAL LIGHTING CIRCUIT.

5 INDICATED FIXTURE TO BE INSTALLED WITHIN CANOPY, CONNECT TO EXISTING EXTERIOR LIGHTING CIRCUIT AND CONTROLS.



A-BLOCK C LIGHTING RENOVATION PLAN
SCALE: 1:100



Key Plan

NO.	DESCRIPTION	DATE
1	ISSUED FOR TENDER	03.27.25

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Name: D.G. MCCONKEY
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CRESTVIEW OFFICE RENOVATION & HVAC UPGRADE

153 Montcalm Drive, Kitchener, ON, N2B 2R6

Waterloo Region District School Board

BLOCK C LIGHTING RENOVATION PLAN

DEI Consulting Engineers
MECHANICAL | ELECTRICAL | AQUATIC
55 Northland Road, Waterloo, ON N2V 1Y8
Phone: 519-725-3555
Website: deiassociates.ca
Project Number: 24343

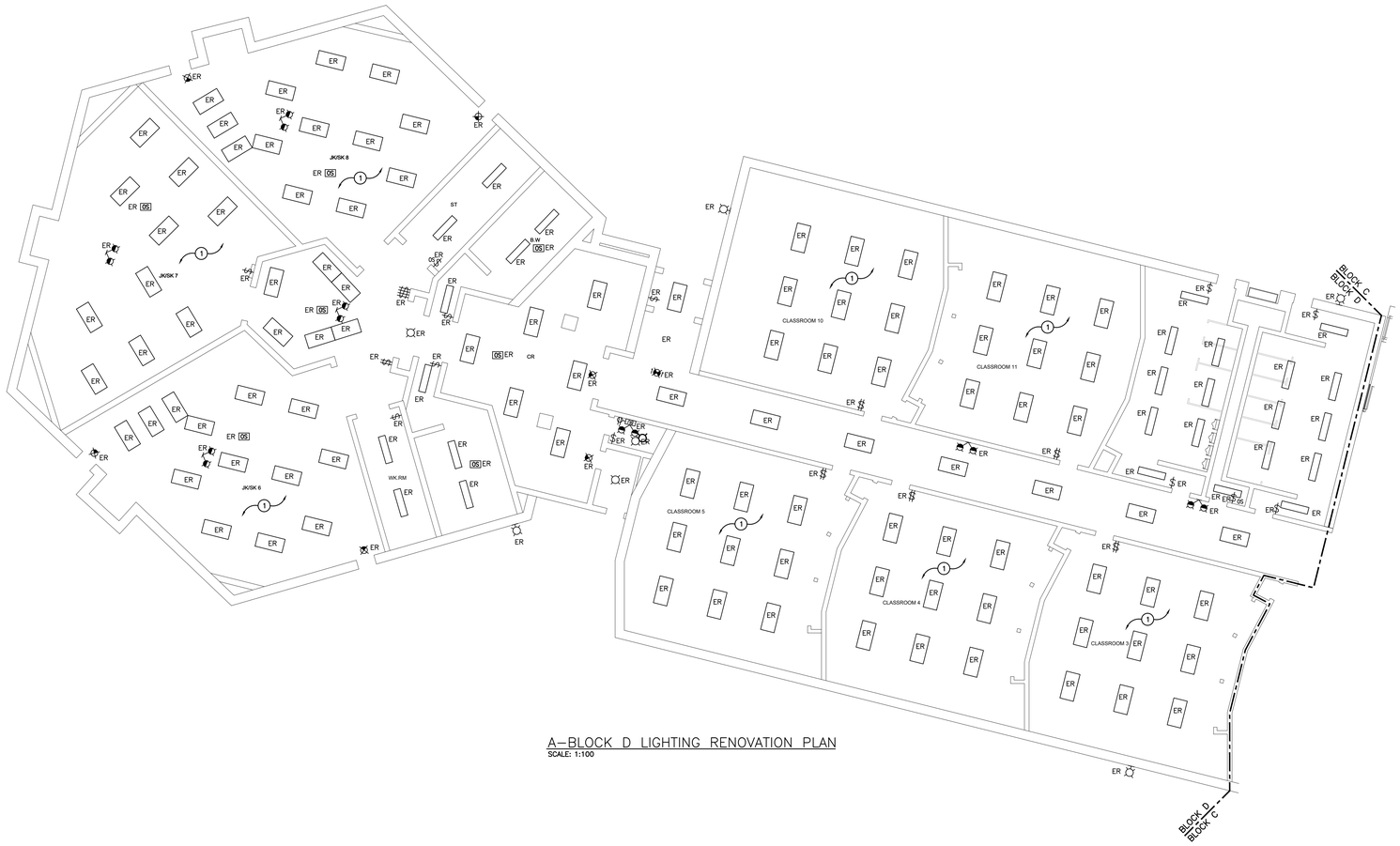
SCALE	As indicated
DATE	March 2025
DRAWN	T.M.
CHECKED	D.M.
PRINT DATE	-
REVIT FILE	-
PROJECT	24113
DRAWING	E13

GENERAL RENOVATION NOTES

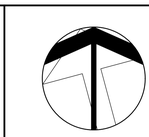
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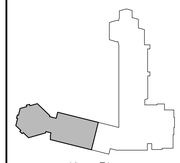
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A-BLOCK D LIGHTING RENOVATION PLAN
SCALE: 1:100





Key Plan

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CRESTVIEW OFFICE RENOVATION & HVAC UPGRADE

153 Montcalm Drive, Kitchener, ON, N2B 2R6

Waterloo Region District School Board

BLOCK D LIGHTING RENOVATION PLAN

DEI Consulting Engineers
MECHANICAL | ELECTRICAL | AQUATIC
55 Northland Road, Waterloo, ON N2V 1Y8
Phone: 519-745-3555
Website: deiassociates.ca
Project Number: 24241

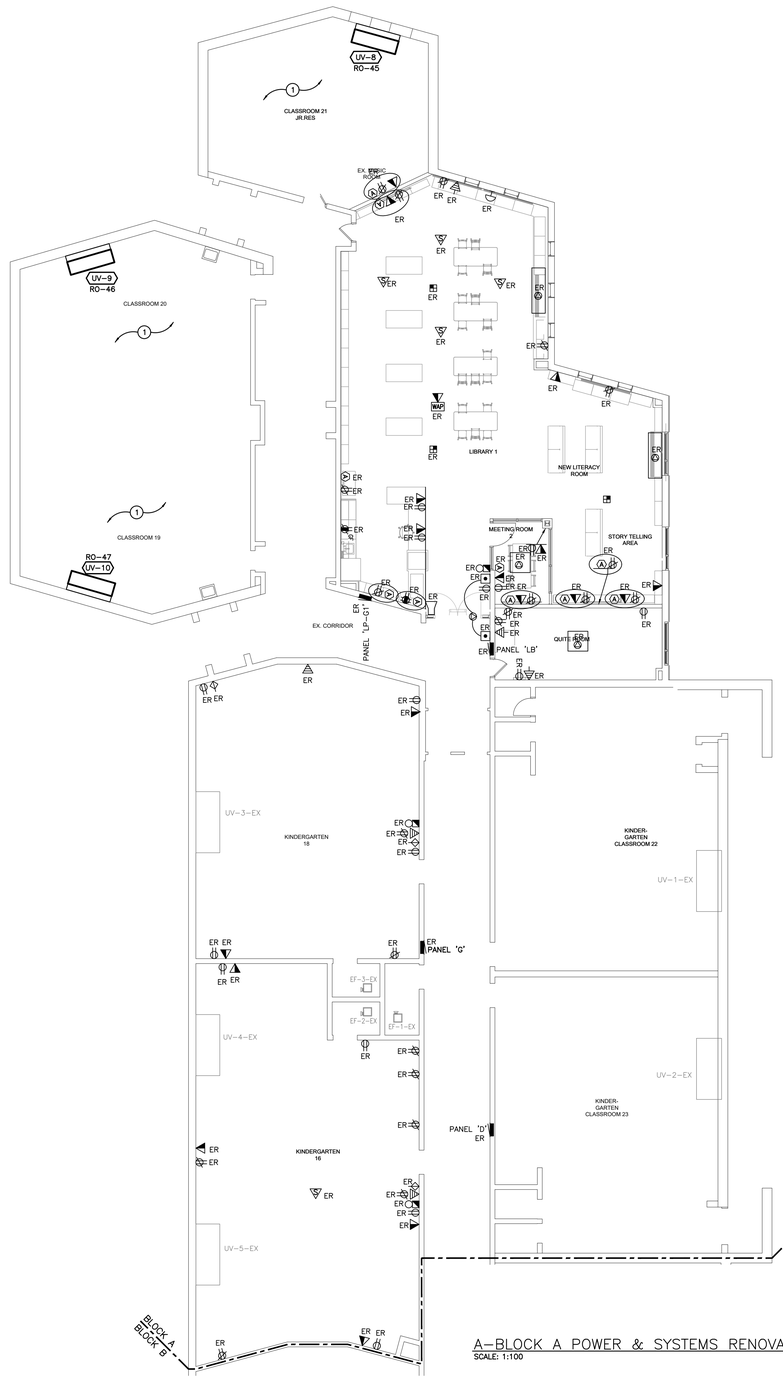
SCALE: As indicated	PROJECT: 24113
DATE: March 2025	
DRAWN: T.M.	DRAWING: E14
CHECKED: D.M.	
PRINT DATE	-
REVIT FILE	-

GENERAL RENOVATION NOTES

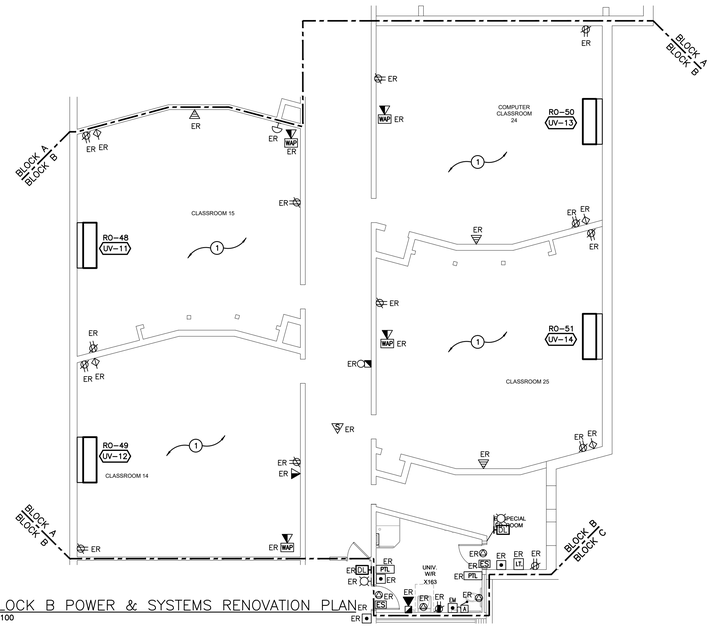
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SPECIFIC RENOVATION NOTES

1. ELECTRICAL CONTRACTOR TO REMOVE ANY CEILING DEVICES AS REQUIRED TO ALLOW FOR NEW PIPING UP TO ROOF TOP UNITS WITHIN AREA. RE-INSTALL AFTER PIPING INSTALLATION IS COMPLETE.

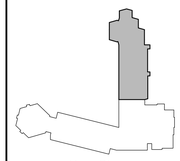


A-BLOCK A POWER & SYSTEMS RENOVATION PLAN
SCALE: 1:100



B-BLOCK B POWER & SYSTEMS RENOVATION PLAN
SCALE: 1:100





Key Plan

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CRESTVIEW OFFICE RENOVATION & HVAC UPGRADE

153 Montcalm Drive, Kitchener, ON, N2B 2R6

Waterloo Region District School Board

BLOCK A & B POWER & SYSTEMS RENOVATION PLAN

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MECHANICAL | ELECTRICAL | AQUATIC
55 Northland Road, Waterloo, ON N2V 1Y8
Phone: 519-725-3555
Website: deiassociates.ca
Project Number: 24343

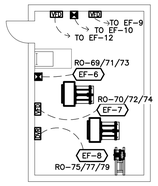
SCALE	As indicated
DATE	March 2025
DRAWN	T.M.
CHECKED	D.M.
PRINT DATE	-
REVIT FILE	-
PROJECT	24113
DRAWING	E15

SPECIFIC RENOVATION NOTES

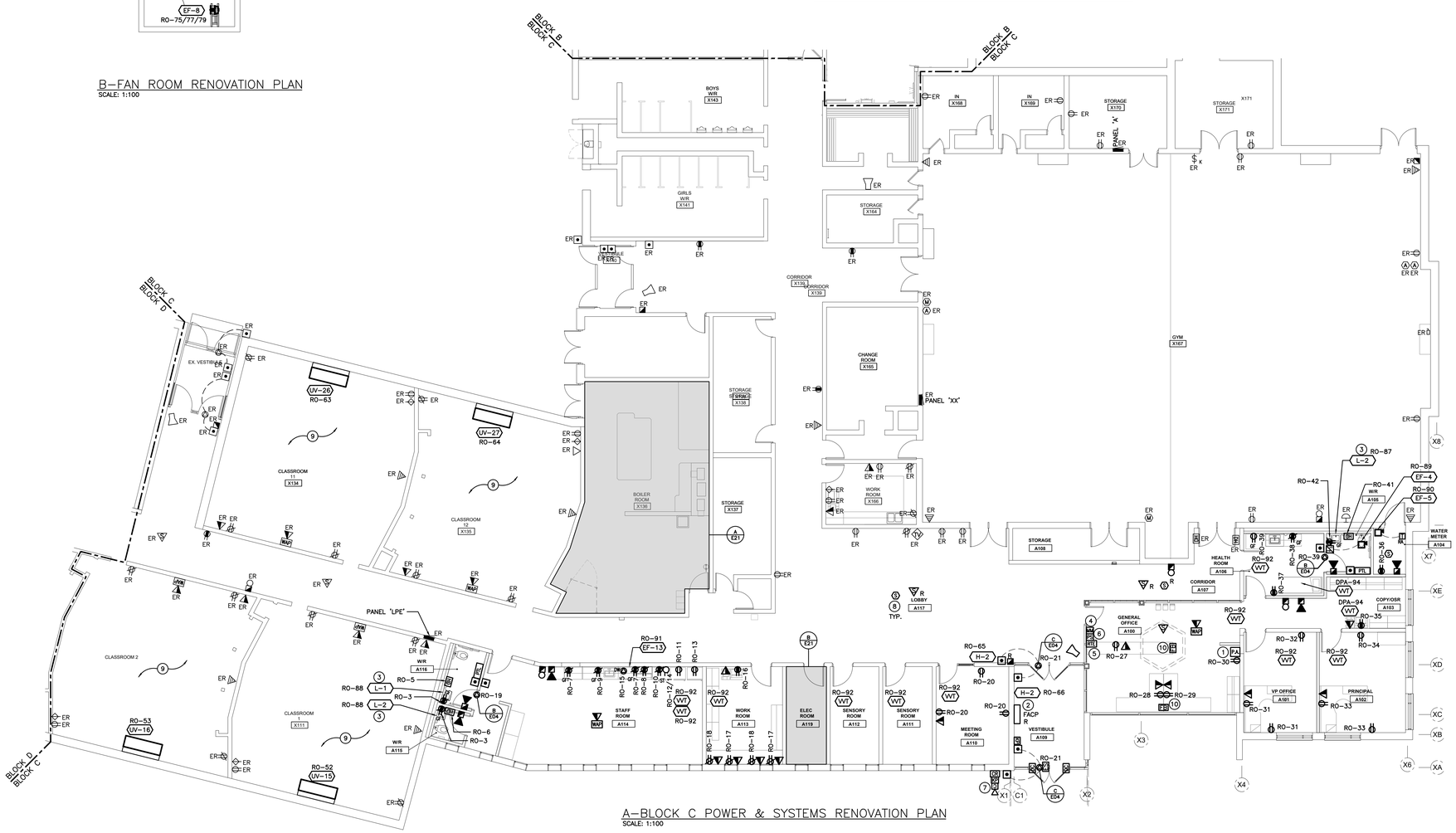
1. INDICATES RELOCATED P.A. CABINET. PROVIDE 2–53mm CONDUIT BACK TO CABLE MANAGEMENT SYSTEM IN CORRIDOR.
2. INDICATES RELOCATED EDWARDS EST3 FIRE ALARM CONTROL PANEL. RELOCATED FIRE ALARM CONTROL PANEL IS TO BE RECESSED AND ELECTRICAL CONTRACTOR IS TO SUPPLY AND INSTALL NEW TRIM IN ORDER TO RECESS IN WALL. PROVIDE NEW CONDUIT TO ULC MONITORING PANEL.
3. INDICATES 120V FEED TO 24VDC STEP DOWN TRANSFORMER MOUNTED ABOVE CEILING OR AT A HIGH LEVEL FOR AUTOMATIC PLUMBING FIXTURE(S). COORDINATE WITH MECHANICAL TRADE.
4. INDICATES SINGLE GANG EMPTY BACKBOX C/W 19MMC TO NEAREST CABLE MANAGEMENT TRAY FOR SAFE WELCOME MASTER/SUB-MASTER MONITOR STATION. PROVIDE BACK BOX WITH BLANK COVER PLATE (TO BE REPLACED BY SAFE WELCOME SYSTEM SUPPLIER AT THE TIME OF SYSTEM INSTALLATION). SCHOOL BOARD TO CONFIRM LOCATION PRIOR TO ROUGH-IN.
5. INDICATES DOOR RELEASE BUTTON C/W 21MMC BACK TO NEAREST CABLE MANAGEMENT TRAY. STUB CONDUIT INTO RECEPTION DESK MILLWORK, COORDINATE WITH MILLWORK SUPPLIER.
6. INDICATES POWER SUPPLY CIRCUIT CONNECTION UNIT FOR MASTER AND VIDEO STATIONS MOUNTED IN ACCESSIBLE CEILING SPACE (CONFIRM EXACT LOCATION ON SITE WITH OWNER). CIRCUIT AS NOTED. PROVIDE LOCK-ON DEVICE FOR BREAKER.
7. INDICATES DEVICE ROUGH-IN FOR SAFE WELCOME SYSTEM ENTRY CAMERA C/W 19MMC TO NEAREST CABLE MANAGEMENT SYSTEM. MOUNT AT 1372mm AFF ABOVE SECURITY CARD READER. PROVIDE BLANK, WEATHERPROOF COVER PLATE FOR BOX (TO BE REPLACED BY SYSTEM SUPPLIER AT TIME OF SYSTEM INSTALLATION). SCHOOL BOARD TO CONFIRM LOCATION PRIOR TO ROUGH-IN.
8. INDICATES NEW FIRE ALARM DEVICE TO BE CONNECTED TO EXISTING INITIATING CIRCUIT.
9. ELECTRICAL CONTRACTOR TO REMOVE ANY CEILING DEVICES AS REQUIRED TO ALLOW FOR NEW PIPING UP TO ROOF TOP UNITS WITHIN AREA. RE-INSTALL AFTER PIPING INSTALLATION IS COMPLETE.
10. ELECTRICAL CONTRACTOR TO RUN CONDUIT IN SLAB TO FLOOR BOXES UNDERNEATH DESK. ALL RECEPTACLES AND DATA OUTLETS ARE TO BE MOUNTED WITHIN MILLWORK COORDINATE FINAL LOCATION WITH FURNITURE LAYOUT.

GENERAL RENOVATION NOTES

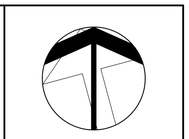
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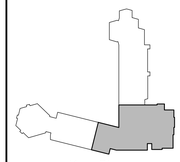


B–FAN ROOM RENOVATION PLAN
SCALE: 1:100



A–BLOCK C POWER & SYSTEMS RENOVATION PLAN
SCALE: 1:100





Key Plan

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1	ISSUED FOR TENDER	03.27.25

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03.27.2025
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Name: D.G. MCCONKEY
Numbers: 100230476
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CRESTVIEW OFFICE RENOVATION & HVAC UPGRADE

153 Montcalm Drive, Kitchener, ON, N2B 2R6

Waterloo Region District School Board

BLOCK C
POWER & SYSTEMS RENOVATION PLAN

DEI Consulting Engineers
MECHANICAL | ELECTRICAL | AQUATIC
55 Northland Road, Waterloo, ON N2V 1Y8
Phone: 519-745-3555
Website: deiassociates.ca
Project Number: 24113

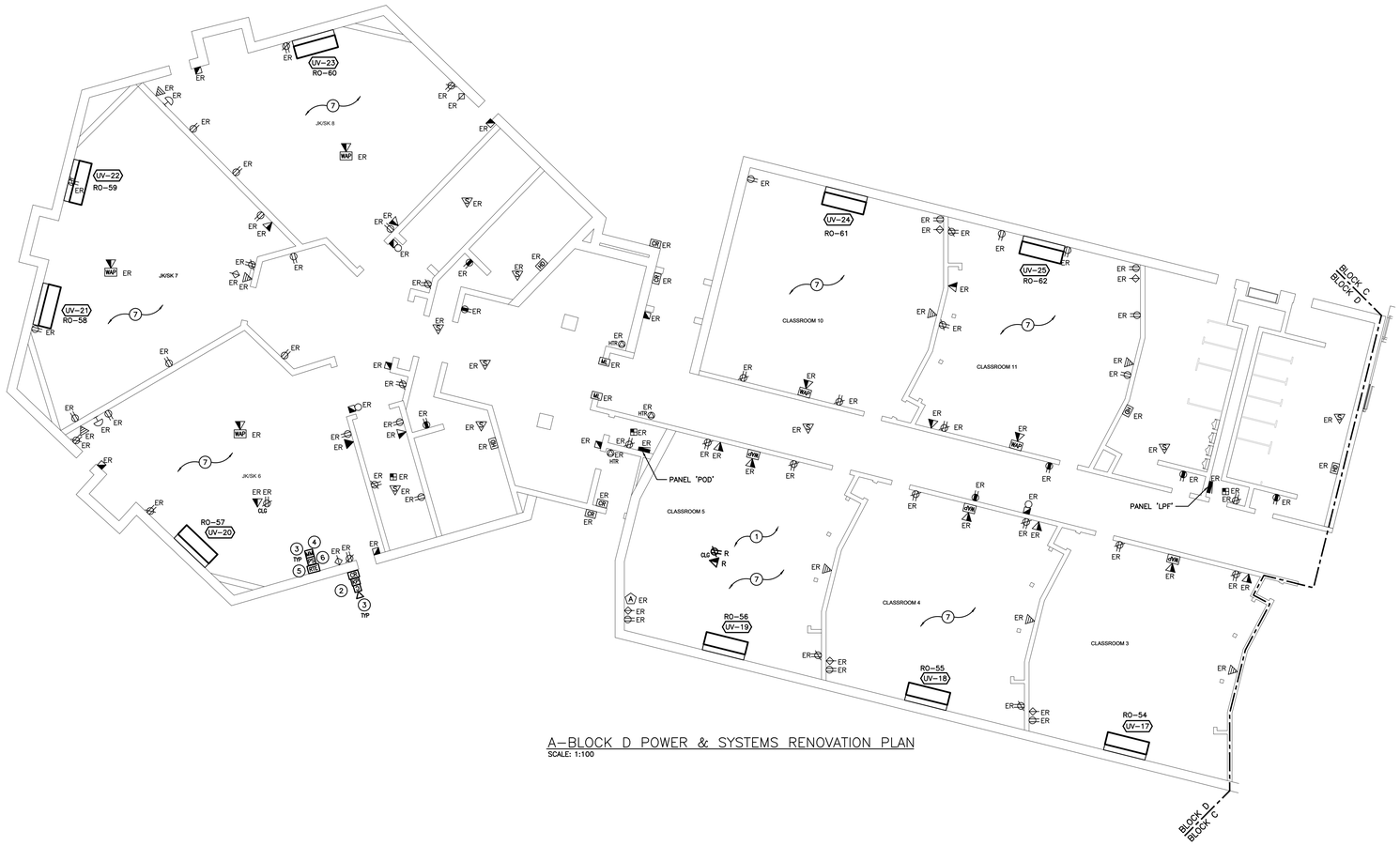
SCALE: As indicated	PROJECT: 24113
DATE: March 2025	
DRAWN: T.M.	DRAWING: E16
CHECKED: D.M.	
PRINT DATE	-
REVIT FILE	-

GENERAL RENOVATION NOTES

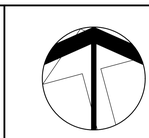
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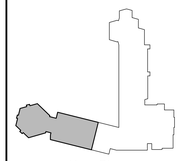
SPECIFIC RENOVATION NOTES

1. CLASSROOM #5 IS TO BE USED AS TEMPORARY OFFICE DURING CONSTRUCTION. ELECTRICAL CONTRACTOR IS TO INCLUDE THE SUPPLY, INSTALLATION AND REMOVAL OF 6 DEDICATED 15A–1P CIRCUITS/BREAKERS AND THE ROUGH–IN OF 6 DATA DROPS WITH CONDUIT TO CABLE MANAGEMENT SYSTEM.
2. INDICATES DEVICE ROUGH–IN FOR SAFE WELCOME SYSTEM ENTRY CAMERA C/W 19MMC TO NEAREST CABLE MANAGEMENT SYSTEM. MOUNT AT 1372MM AFF ABOVE SECURITY CARD READER. PROVIDE BLANK, WEATHERPROOF COVER PLATE FOR BOX (TO BE REPLACED BY SYSTEM SUPPLIER AT TIME OF SYSTEM INSTALLATION). SCHOOL BOARD TO CONFIRM LOCATION PRIOR TO ROUGH–IN.
3. ALL DEVICES FOR SAFE WELCOME SYSTEM ARE TO BE INSTALLED TEMPORARY DURING OFFICE RENOVATIONS.
4. INDICATES SINGLE GANG EMPTY BACKBOX C/W 19MMC TONEAREST CABLE MANAGEMENT TRAY FOR SAFE WELCOME MASTER/SUB–MASTER MONITOR STATION. PROVIDE BACK BOX WITH BLANK COVER PLATE (TO BE REPLACED BY SAFE WELCOME SYSTEM SUPPLIER AT THE TIME OF SYSTEM INSTALLATION). SCHOOL BOARD TO CONFIRM LOCATION PRIOR TO ROUGH–IN.
5. INDICATES DOOR RELEASE BUTTON C/W 21MMC BACK TO NEAREST CABLE MANAGEMENT TRAY. STUB CONDUIT INTO RECEPTION DESK MILLWORK, COORDINATE WITH MILLWORK SUPPLIER.
6. INDICATES POWER SUPPLY CIRCUIT CONNECTION UNIT FOR MASTER AND VIDEO STATIONS MOUNTED IN ACCESSIBLE CEILING SPACE (CONFIRM EXACT LOCATION ON SITE WITH OWNER). CIRCUIT AS NOTED. PROVIDE LOCK–ON DEVICE FOR BREAKER.
7. ELECTRICAL CONTRACTOR TO REMOVE ANY CEILING DEVICES AS REQUIRED TO ALLOW FOR NEW PIPING UP TO ROOF TOP UNITS WITHIN AREA. RE–INSTALL AFTER PIPING INSTALLATION IS COMPLETE.



A–BLOCK D POWER & SYSTEMS RENOVATION PLAN
SCALE: 1:100





Key Plan

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Waterloo Region District School Board

BLOCK D
POWER & SYSTEMS RENOVATION PLAN

DEI Consulting Engineers
MECHANICAL | ELECTRICAL | AQUATIC
55 Northland Road, Waterloo, ON N2V 1Y8
Phone: 519-725-3555
Website: deiassociates.ca
Project Number: 24343

SCALE: As indicated	PROJECT: 24113
DATE: March 2025	
DRAWN: T.M.	DRAWING: E17
CHECKED: D.M.	
PRINT DATE: -	
REVIT FILE: -	

GENERAL DEMOLITION NOTES

- 'ER' DENOTES EXISTING ITEM TO REMAIN.
- EXISTING ELECTRICAL EQUIPMENT NOT SHOWN SHALL REMAIN UNLESS NOTED OTHERWISE.
- 'R' INDICATES EXISTING ITEM TO BE RELOCATED. REFER TO RENOVATION DRAWINGS AND RELOCATE DEVICE AND WIRING TO SUIT. UNLESS OTHERWISE NOTED.
- '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

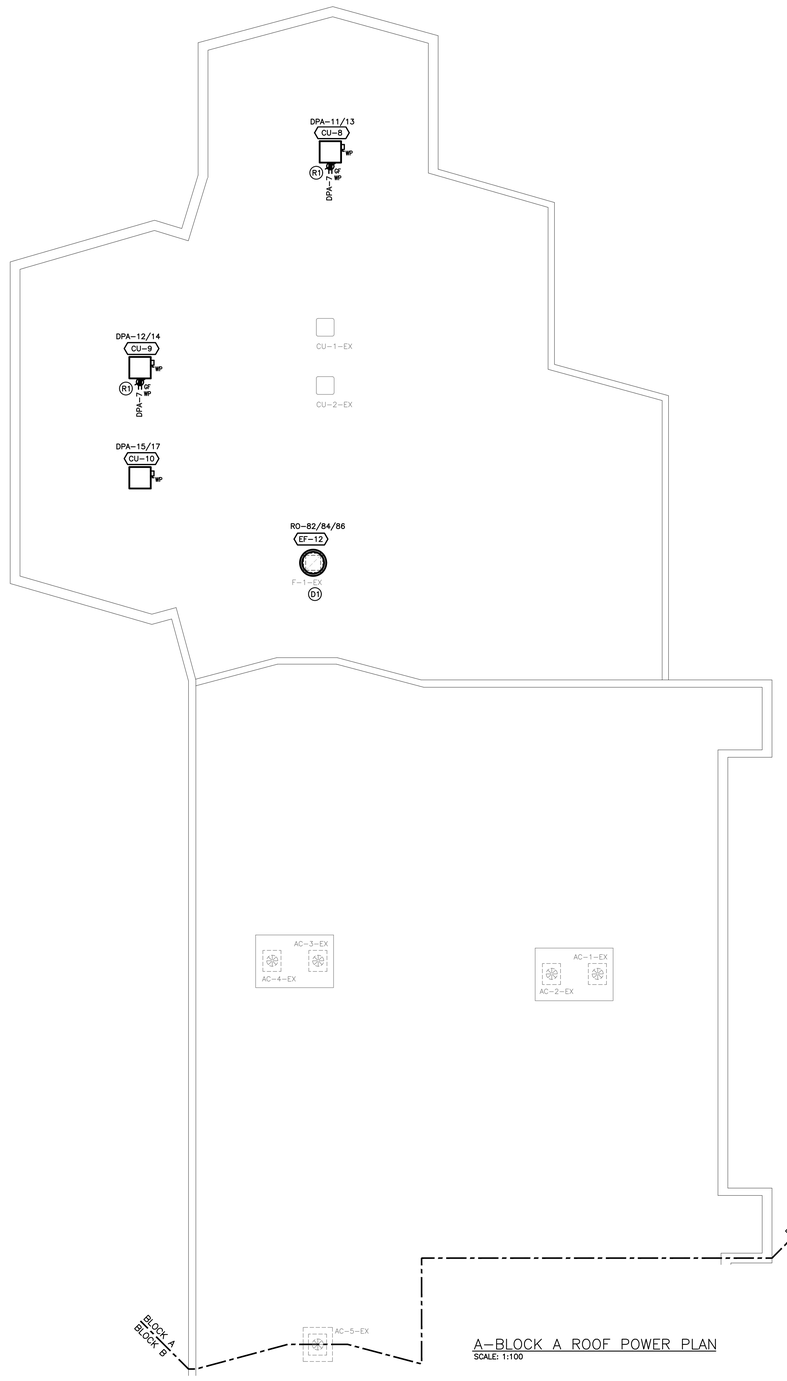
D1 INDICATES EXISTING MECHANICAL UNIT TO BE REMOVED, REMOVE ANY ASSOCIATED DISCONNECT AND HARDWIRED CONNECTION. MAKE SAFE ALL CONNECTION, LABEL BREAKER AS SPARE.

GENERAL RENOVATION NOTES

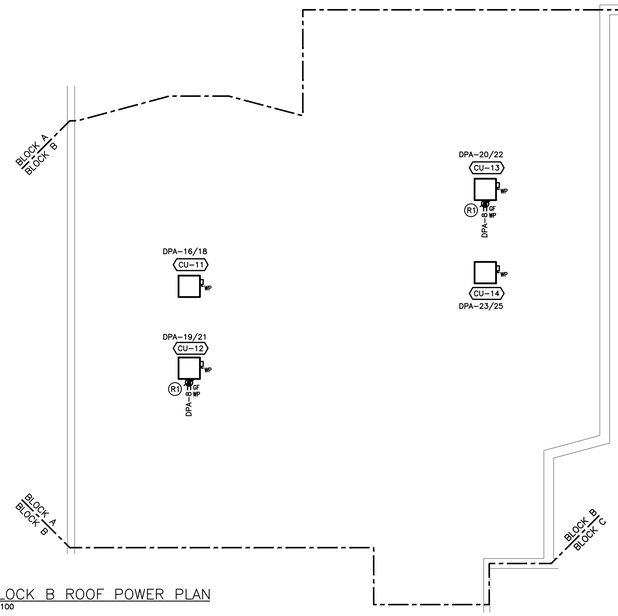
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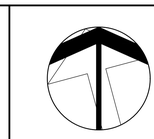
R1 PROVIDE T-SLOT GROUND FAULT RECEPTACLE COMPLETE WITH "HEAVY DUTY IN-USE" WEATHER-PROOF COVER. COORDINATE PLACEMENT WITH MECHANICAL TRADE. INDICATED DEVICE IS TO BE MOUNTED ±36" (900mm) ABOVE FINISHED ROOF LEVEL.



A-BLOCK A ROOF POWER PLAN
SCALE: 1:100



B-BLOCK B ROOF POWER PLAN
SCALE: 1:100



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BLOCK A & B ROOF DEMOLITION & RENOVATION PLAN

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SCALE As indicated	PROJECT 24113
DATE March 2025	
DRAWN T.M.	DRAWING E18
CHECKED D.M.	
PRINT DATE	-
REVIT FILE	-

GENERAL DEMOLITION NOTES

- 'ER' DENOTES EXISTING ITEM TO REMAIN.
- EXISTING ELECTRICAL EQUIPMENT NOT SHOWN SHALL REMAIN UNLESS NOTED OTHERWISE.
- 'R' INDICATES EXISTING ITEM TO BE RELOCATED. REFER TO RENOVATION DRAWINGS AND RELOCATE DEVICE AND WIRING TO SUIT. UNLESS OTHERWISE NOTED.
- '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 INDICATES EXISTING MECHANICAL UNIT TO BE REMOVED. REMOVE ANY ASSOCIATED DISCONNECT AND HARDWIRED CONNECTION. MAKE SAFE ALL CONNECTION, LABEL BREAKER AS SPARE.

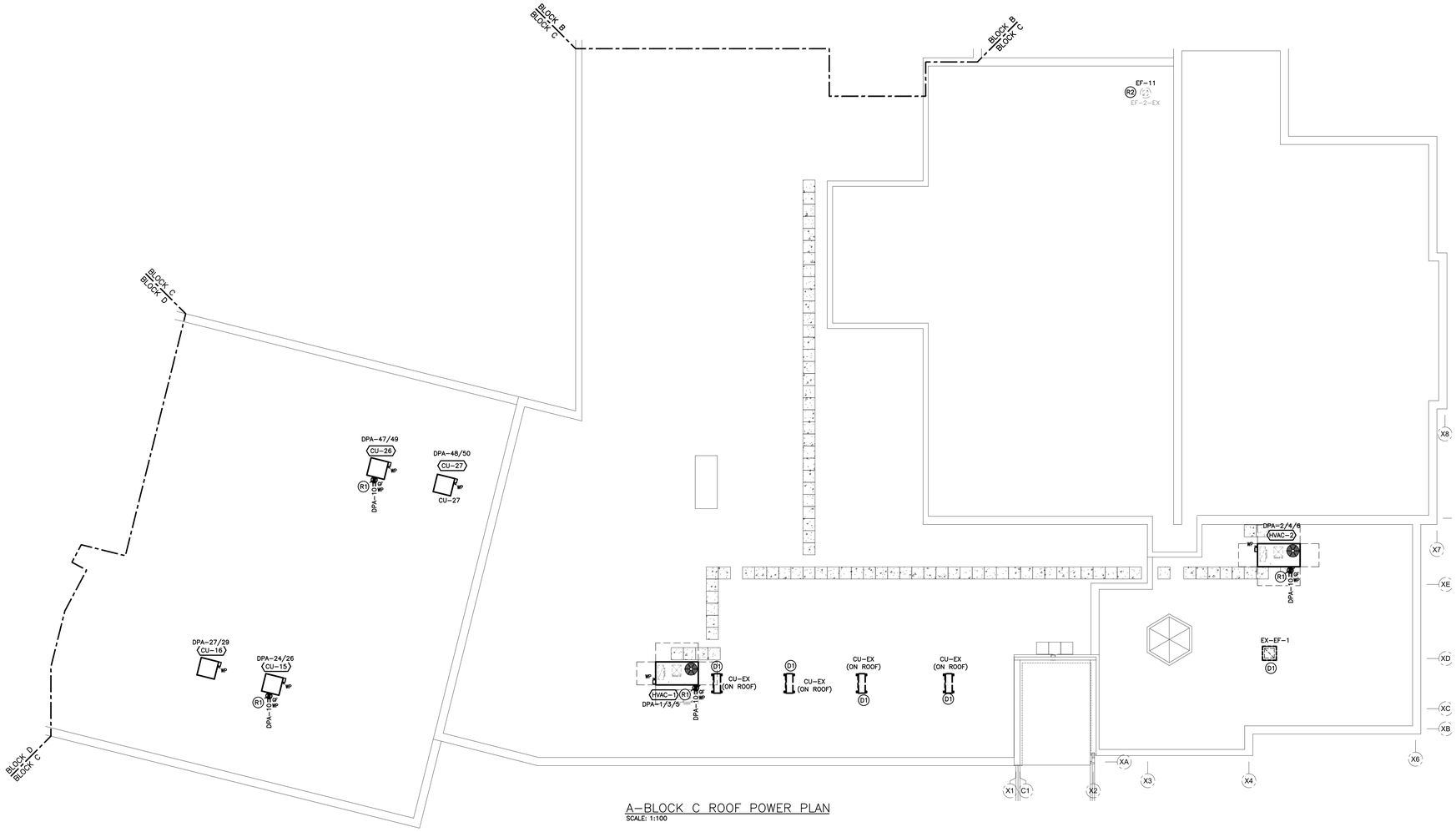
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- MAINTAIN SERVICE TO ALL EXISTING DEVICES TO REMAIN.
- REVISE PANEL DIRECTORIES TO SUIT CHANGES (TYPED).

SPECIFIC RENOVATION NOTES

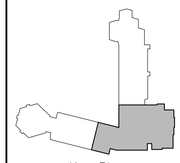
R1 PROVIDE T-SLOT GROUND FAULT RECEPTACLE COMPLETE WITH "HEAVY DUTY IN-USE" WEATHER-PROOF COVER. COORDINATE PLACEMENT WITH MECHANICAL TRADE. INDICATED DEVICE IS TO BE MOUNTED ±36" (900mm) ABOVE FINISHED ROOF LEVEL.

R2 PROVIDE AND INSTALL NEW ENGRAVED NAMEPLATE IDENTIFYING THE CURRENT MECHANICAL UNIT NUMBER AS WELL AS THE PANEL IT IS POWERED FROM. NAMEPLATE SHALL BE ATTACHED TO NEW MECHANICAL UNIT USING RIVETS OR SCREWS. EXERCISE CAUTION WHEN INSTALLING SO THAT THE MECHANICAL UNIT IS NOT DAMAGED IN ANY WAY.



A-BLOCK C ROOF POWER PLAN
SCALE: 1:100





Key Plan

NO.	DESCRIPTION	DATE
1	ISSUED FOR TENDER	03.27.25

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Professional Engineers Ontario
03-27-2025
Limited Engineering Licensee
Name: D.G. MCCONKEY
Number: 100230470
Limitations: Detailed design, reporting, and specifications for all building electrical systems, site servicing and review of conformity for these systems in new and renovation construction
Association of Professional Engineers of Ontario

CRESTVIEW OFFICE RENOVATION & HVAC UPGRADE

153 Montcalm Drive, Kitchener, ON, N2B 2R6

Waterloo Region District School Board

BLOCK C
ROOF DEMOLITION & RENOVATION PLAN

DEI
Consulting Engineers
MECHANICAL | ELECTRICAL | AQUATIC
55 Northland Road, Waterloo, ON N2V 1Y8
Phone: 519-725-3555
Website: deiassociates.ca
Project Number: 24343

SCALE: As indicated	PROJECT: 24113
DATE: March 2025	
DRAWN: T.M.	DRAWING: E19
CHECKED: D.M.	
PRINT DATE: -	
REVIT FILE: -	

GENERAL DEMOLITION NOTES

- 'ER' DENOTES EXISTING ITEM TO REMAIN.
- EXISTING ELECTRICAL EQUIPMENT NOT SHOWN SHALL REMAIN UNLESS NOTED OTHERWISE.
- 'R' INDICATES EXISTING ITEM TO BE RELOCATED. REFER TO RENOVATION DRAWINGS AND RELOCATE DEVICE AND WIRING TO SUIT. UNLESS OTHERWISE NOTED.
- '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

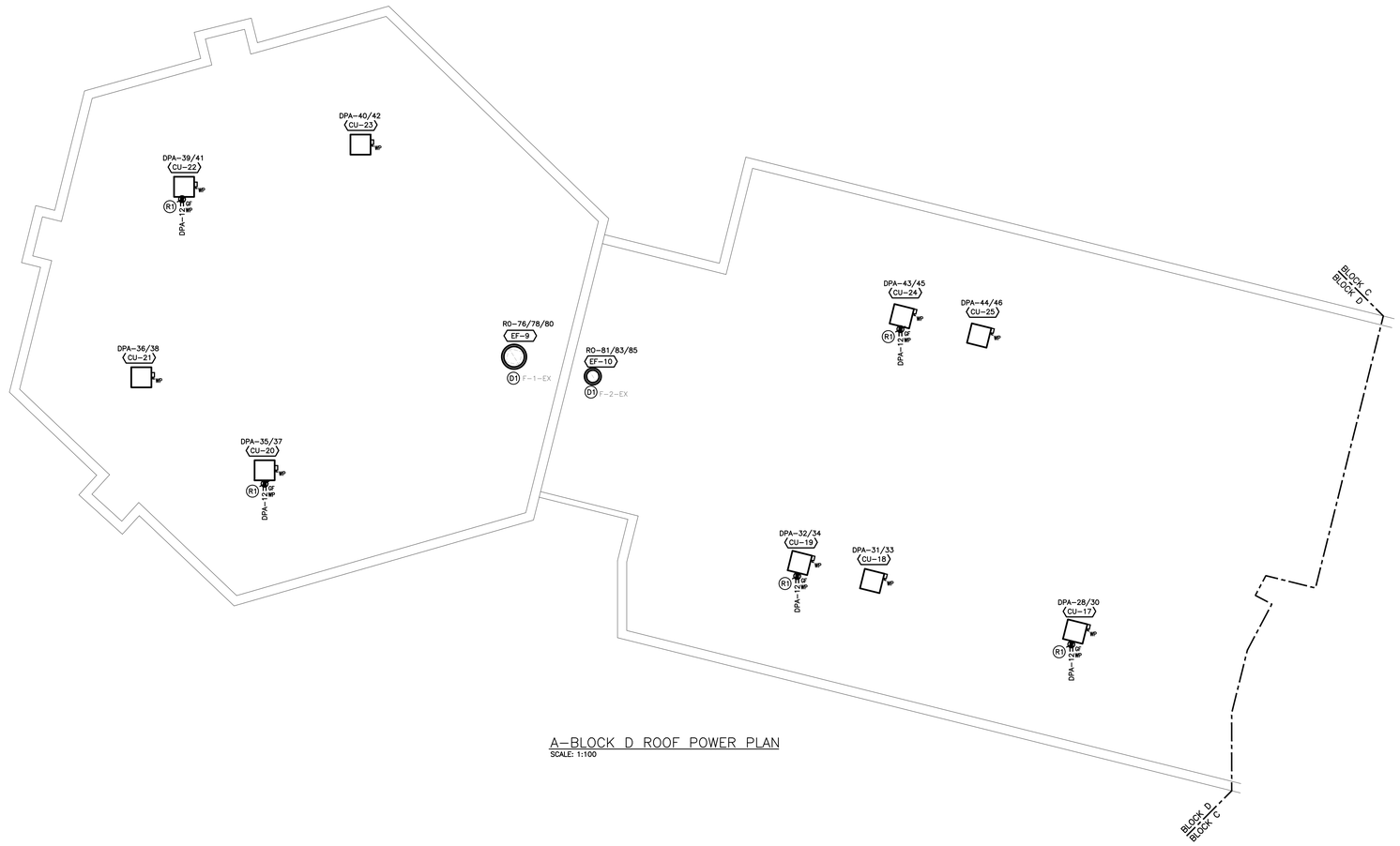
D1 INDICATES EXISTING MECHANICAL UNIT TO BE REMOVED, REMOVE ANY ASSOCIATED DISCONNECT AND HARDWIRED CONNECTION. MAKE SAFE ALL CONNECTION, LABEL BREAKER AS SPARE.

GENERAL RENOVATION NOTES

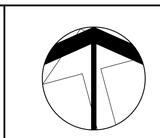
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- REVISE PANEL DIRECTORIES TO SUIT CHANGES (TYPED).

SPECIFIC RENOVATION NOTES

R1 PROVIDE T-SLOT GROUND FAULT RECEPTACLE COMPLETE WITH "HEAVY DUTY IN-USE" WEATHER-PROOF COVER. COORDINATE PLACEMENT WITH MECHANICAL TRADE. INDICATED DEVICE IS TO BE MOUNTED ±36" (900mm) ABOVE FINISHED ROOF LEVEL.



A-BLOCK D ROOF POWER PLAN
SCALE: 1:100



Key Plan

NO.	DESCRIPTION	DATE
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Number: 100230476
Limitations: Detailed design, reporting, and specifications for all building electrical systems, site servicing and review of conformity for these systems in new and renovation construction
Association of Professional Engineers of Ontario

CRESTVIEW OFFICE RENOVATION & HVAC UPGRADE

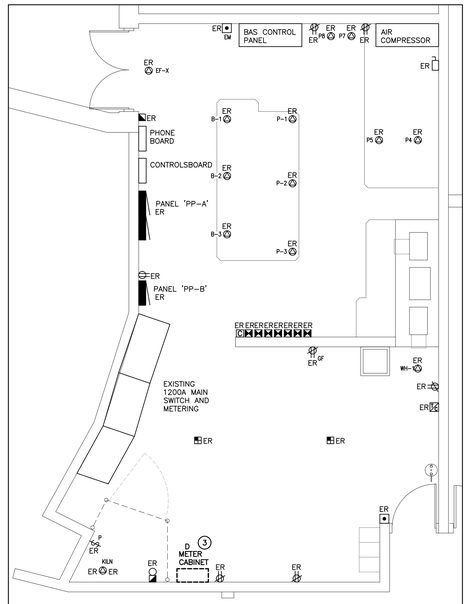
153 Montcalm Drive, Kitchener, ON, N2B 2R6

Waterloo Region District School Board

BLOCK D
ROOF DEMOLITION & RENOVATION PLAN

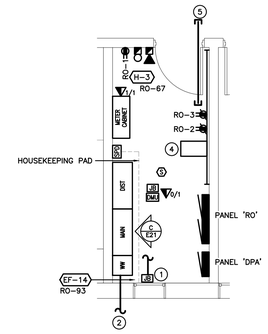
DEI Consulting Engineers
MECHANICAL | ELECTRICAL | AQUATIC
55 Northland Road, Waterloo, ON N2V 1Y8
Phone: 519-745-3555
Website: deiassociates.ca
Project Number: 24241

SCALE: As indicated	PROJECT: 24113
DATE: March 2025	
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PRINT DATE	-
REVIT FILE	-



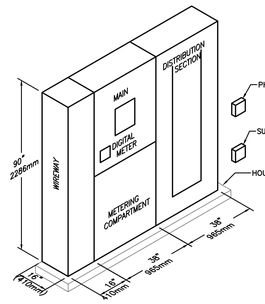
A–BOILER ROOM X136

SCALE: 1:50



B–ELEC ROOM A119

SCALE: 1:50



REFER TO RISER DIAGRAM FOR INFORMATION.

C–SECONDARY SWITCHBOARD ELEVATION

SCALE: NTS

GENERAL RENOVATION NOTES

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- MAINTAIN SERVICE TO ALL EXISTING DEVICES TO REMAIN.
- REVISE PANEL DIRECTORIES TO SUIT CHANGES (TYPED).

SPECIFIC RENOVATION NOTES

1 INDICATES PHASE LOSS RELAY JUNCTION BOX TO BE MOUNTED TO ADJACENT SWITCHBOARD.REFER TO DISTRIBUTION RISER FOR FURTHER DETAILS. PROVIDE 35mm C/W CAT6SE TO SECURITY PANEL. FOR USE BY BOARD SECURITY VENDOR TO TERMINATE AND MONITOR PHASE LOSS RELAY STATUS.

2 INDICATES APPROXIMATE LOCATION FOR 208V SECONDARY SERVICE DUCTS INTO SWITCHBOARD WIREWAY. REFER TO SITE PLAN FOR FURTHER INFORMATION. DUCT PENETRATIONS AT FOUNDATION WALLS TO BE SEALED INSIDE AND OUT.

3 INDICATES EXISTING METER CABINET TO BE REMOVED ONCE NEW ELECTRICAL SERVICE HAS BEEN ENERGIZED COORDINATION WITH UTILITY.

4 INDICATES LOCATION OF RELOCATED IT RACK, ELECTRICAL CONTRACTOR TO EXTEND ALL EXISTING CABLE RUNS TO NEW LOCATION.

5 INDICATES 2–78mm CONDUIT TO CORRIDOR CABLE MANAGEMENT SYSTEM.

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Association of Professional Engineers of Ontario

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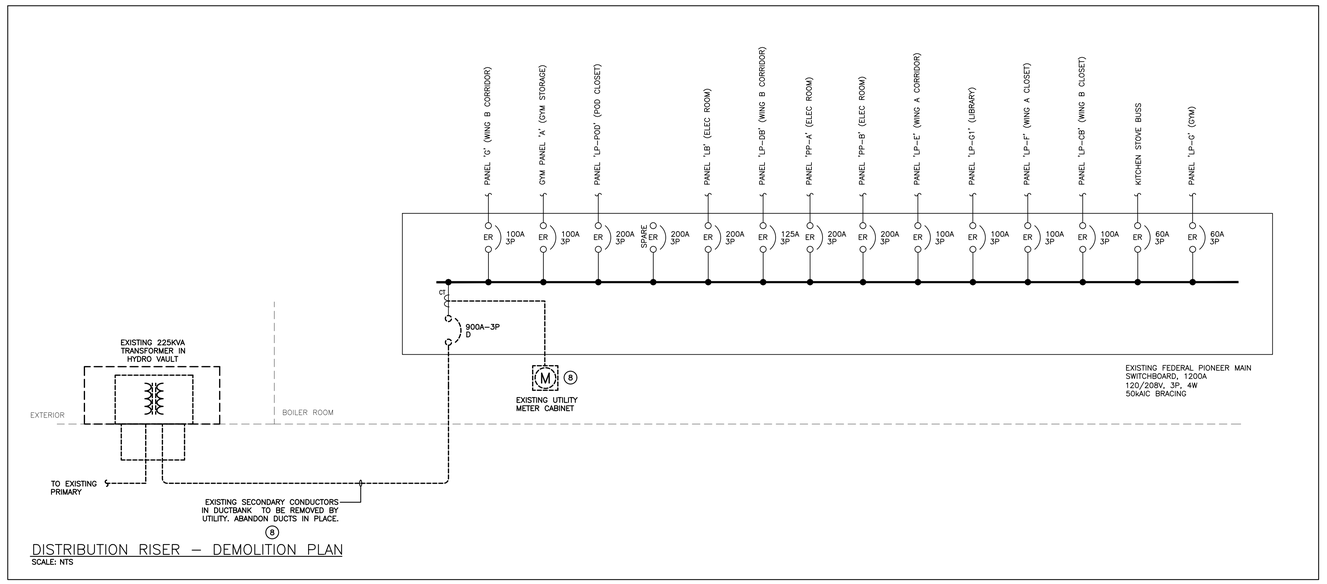
153 Montcalm Drive, Kitchener, ON, N2B 2R6

Waterloo Region District School Board

ELECTRICAL ENLARGED PLANS

DEI Consulting Engineers
MECHANICAL | ELECTRICAL | AQUATIC
55 Northland Road, Waterloo, ON N2V 1Y8
Phone: 519-745-1555
Website: deiassociates.ca
Project Number: 24241

SCALE	As indicated
DATE	March 2025
DRAWN	T.M.
CHECKED	D.M.
PROJECT	24113
DRAWING	E21
PRINT DATE	-
REVIT FILE	-



DISTRIBUTION RISER – DEMOLITION PLAN

SCALE: NTS

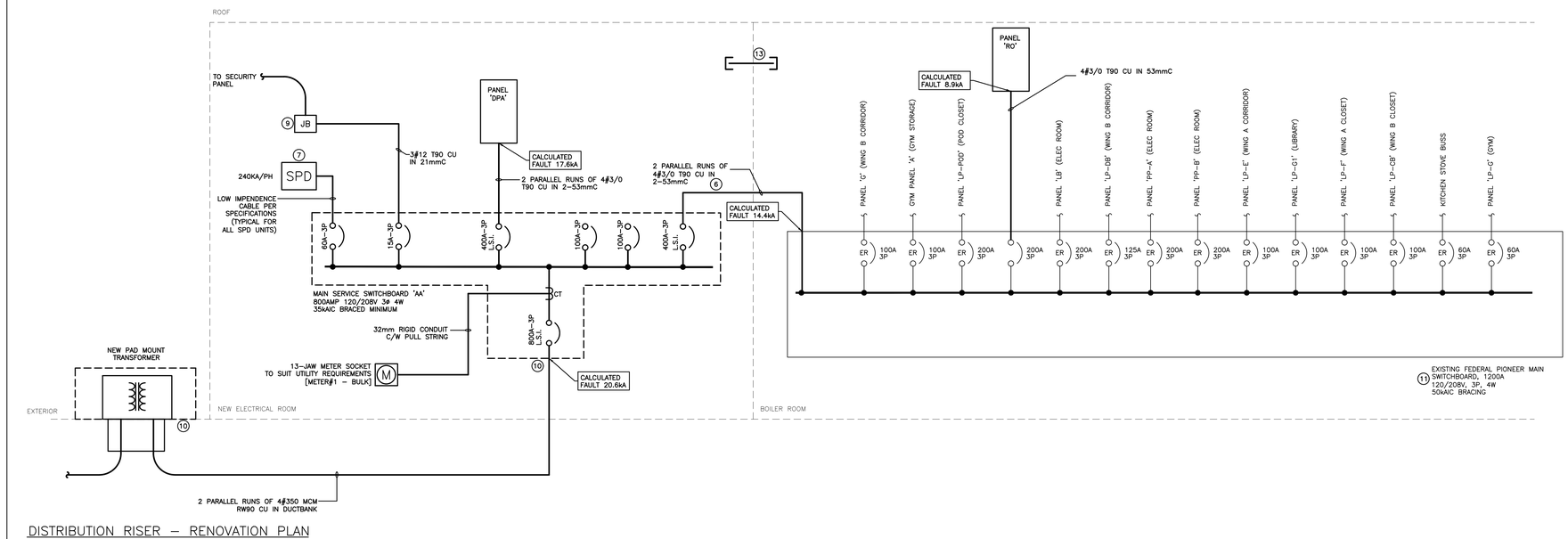
DISTRIBUTION RISER NOTES

1. REFER TO SPECIFICATION FOR INFORMATION REGARDING MOULDED CASE CIRCUIT BREAKERS.
2. ALL DISTRIBUTION EQUIPMENT ARE TO BE PROVIDED WITH WARNING LABELS CONFORMING TO THE ONTARIO ELECTRICAL SAFETY CODE RULE #2-306(1),(2)
3. INSTALL GROUND WIRE TO SUIT THE ELECTRICAL SAFETY CODE IN ALL CONDUIT.
4. ALL LIGHTING CIRCUITS ARE TO BE PROVIDED WITH SEPARATE NEUTRALS. SIZE BRANCH CONDUITS ACCORDINGLY.
5. ALL NOTED FEEDERS ARE FOR OVERHEAD RUNS OF CONDUIT. IF THE CONTRACTOR WISHES TO FEED UNDERGROUND, THE FEEDER MUST BE REVISED. THE CONTRACTOR IS TO PROPOSE REVISIONS TO THE CONSULTANT FOR PRE-APPROVAL.
6. ELECTRICAL CONTRACTOR TO PROVIDE CUSTOM WIREWAY AS REQUIRED FOR BACKFEED TO EXISTING SWITCHBOARD.
7. MAIN SWITCHBOARD 'AA' SURGE PROTECTION DEVICE (SPD) SHALL BE RATED PER SPECIFICATIONS AND SHALL BE EXTERNAL TO SWITCHBOARD. PROVIDE SUITABLE BRANCH DEVICE FOR FULL RATING OF SPD TO SUIT MANUFACTURERS RECOMMENDATIONS.
8. INDICATES DEMOLITION WORK TO BE COMPLETED ONCE NEW SECONDARY SERVICE HAS BEEN ENERGIZED AND IS READY TO RE-FEED EXISTING DISTRIBUTION SYSTEM (SWBD-A).
9. INDICATES PHASE LOSS RELAYS (EATON CAT. #D65VMLS OR APPROVED EQUAL) MOUNTED TO DIN RAIL WITHIN 254mm x 254mm x 150mm JUNCTION BOX ADJACENT TO SWBD. JUNCTION BOX TO BE LABELLED "PHASE LOSS RELAYS, CONTACT MONITORING COMPANY BEFORE DE-ENERGIZING". PHASE LOSS RELAYS UNDERVOLTAGE TO BE SET TO MINIMUM, UNBALANCE SET TO MAXIMUM AND TRIP DELAY SET TO MAXIMUM. PROVIDE CLASS CC FUSES ON EACH PHASE TO PROTECT RELAYS. CONTRACTOR TO PROVIDE LOW VOLTAGE TERMINAL STRIP MOUNTED ON EXTERIOR OF JUNCTION BOX FOR CONNECTION TO SECURITY PANEL. PROVIDE 2#18 CU FROM OUTPUT CONTACT ON PHASE LOSS RELAYS TO TERMINAL STRIP (IN EVENT OF PHASE LOSS, CONTACT SHALL OPEN).
10. SUPPLY AND INSTALL MECHANICAL SEALS AT TRANSFORMER VAULT AND SWITCHBOARD EQUAL TO POLYWATER PHRD SERIES. DUCT SEALING COMPOUND MUST STILL BE INCLUDED PER SPECIFICATIONS.
11. CONTRACTOR TO PROVIDE TEMPORARY POWER DURING POWER OUTAGES. PROVIDE TEMPORARY PANEL AND BRANCH CIRCUIT CONNECTIONS TO SUIT. COORDINATE ADDITIONAL REQUIREMENTS WITH SCHOOL BOARD REPRESENTATIVE. TEMPORARY POWER TO BE PROVIDED FOR LOADS AS FOLLOWS:

    15A-1P CIRCUIT – FIRE ALARM PANEL
    15A-1P CIRCUIT – SECURITY PANEL
    2 x 15A-1P CIRCUITS – EXTERIOR LIGHTING
    5 x 15A-1P CIRCUITS – CORRIDOR LIGHTING
    15 x 15A-1P CIRCUITS – SPARE

    RENTAL GENERATOR SHALL INCLUDE ALL FUEL, POWER CABLE SETS, GROUNDING PLATE, PROTECTIVE FENCING, TEMPORARY OUTPUT DISTRIBUTION PANEL AND CONNECTIONS TO DISTRIBUTION SYSTEM POINTS FOR SERVICES NOTED.
12. INDICATES TYPICAL ROOF MOUNTED MECHANICAL EQUIPMENT. REFER TO EQUIPMENT WIRING SCHEDULE AND PANEL SCHEDULING FOR SIZING INFORMATION.
13. ELECTRICAL CONTRACTOR IS TO SUPPLY AND INSTALL SPARE 53mmC FROM BOILER ROOM TO NEW ELECTRICAL ROOM.

BUILDING HAS SIPOREX ROOF, ELECTRICAL CONTRACTOR MUST INCLUDE FOR ANCHORING FROM WALLS FOR ANY LARGE FEEDS.



DISTRIBUTION RISER – RENOVATION PLAN

SCALE: NTS

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CRESTVIEW OFFICE RENOVATION & HVAC UPGRADE

153 Montcalm Drive, Kitchener, ON, N2B 2R6

Waterloo Region District School Board

ELECTRICAL DISTRIBUTION RISER

DEI Consulting Engineers
MECHANICAL | ELECTRICAL | AQUATIC
55 Northland Road, Waterloo, ON N2V 1Y8
Phone: 519-745-3555
Website: deiassociates.ca
Project Number: 24113

SCALE As indicated	PROJECT 24113
DATE March 2025	
DRAWN T.M.	DRAWING E21
CHECKED D.M.	
PRINT DATE	-
REVIT FILE	-

PANEL 'RO'

VOLTAGE: 120/208 VOLTS
PHASE: 3P, 4W
MAINS: 200A
NEUTRAL BUS: FULL
MOUNTING: SURFACE
NOTES: C/W SPRINKLER HOOD

* INDICATES 5mA GROUND FAULT STYLE BREAKER

THE CONTRACTOR IS TO COORDINATE ROOM NAMES AND NUMBERS NOTED WITH THE FINAL ROOM INFORMATION ISSUED DURING CONSTRUCTION AND ADJUST DIRECTORIES TO SUIT.

ELEC ROOC REC	20A	1	2	20A	IT RACK		
WASHROOM SINK RECS	20A	3	4	20A	IT RACK		
HAND DRYER	20A*	5	6	20A*	HAND DRYER		
STAFF ROOM COUNTER REC	20A	7	8	20A	STAFF ROOM MICROWAVE		
STAFF ROOM COUNTER REC	20A	9	10	20A	STAFF ROOM MICROWAVE		
STAFF ROOM FRIDGE	15A	11	12	50A	STAFF ROOM OVEN		
STAFF ROOM FRIDGE	15A	13	14	2P			
STAFF ROOM DISHWASHER	15A	15	16	20A	WORKROOM PRINTER		
WORK ROOM REC	15A	17	18	15A	WORK ROOM REC		
STAFF WASHROOM DOOR	15A	19	20	15A	MEETING ROOM		
VESTIBULE DOORS	15A	21	22	20A	SPARE		
SPARE	20A	23	24	20A	SPARE		
SPARE	15A	25	26	20A	SPARE		
GENERAL OFFICE REC	15A	27	28	15A	GENERAL OFFICE REC		
GENERAL OFFICE REC	15A	29	30	15A	PA CABINET		
VP OFFICE REC	15A	31	32	15A	VP OFFICE REC		
PRINCIPAL REC	15A	33	34	15A	PRINCIPAL REC		
COPIER	20A	35	36	20A	WATER ROOM REC		
HEALTH ROOM CHANGE TABLE	20A	37	38	20A	HEALTH ROOM COUNTER REC		
HEALTH ROOM FRIDGE	15A	39	40	15A	WASHROOM DOOR		
HANDDRYER	20A*	41	42	20A	WASHROOM REC		
SPARE	15A	43	44	15A	PYLON SIGN		
UV-8	UV-8	45	46	15A	UV-9	UV-9	
UV-10	UV-10	47	48	15A	UV-11	UV-11	
UV-12	UV-12	49	50	15A	UV-13	UV-13	
UV-14	UV-14	51	52	15A	UV-15	UV-15	
UV-16	UV-16	53	54	15A	UV-17	UV-17	
UV-18	UV-18	55	56	15A	UV-19	UV-19	
UV-20	UV-20	57	58	15A	UV-21	UV-21	
UV-22	UV-22	59	60	15A	UV-23	UV-23	
UV-24	UV-24	61	62	15A	UV-25	UV-25	
UV-26	UV-26	63	64	15A	UV-27	UV-27	
H-2	CORR. HTR	65	66	15A	VEST. HTR	H-2	
H-3	ELEC. HTR	67	68	15A	OFFICE WT	WT	
EF-6	EF-6	25A 69	70	25A	EF-7	EF-7	
		71	72				
		3P 73	74	3P			
EF-8	EF-8	15A 75	76	15A	EF-9	EF-9	
		77	78				
		3P 79	80	3P			
EF-10	EF-10	15A 81	82	15A	EF-12	EF-12	
		83	84				
		3P 85	86	3P			
L-2	AUTOMATIC SINK	15A* 87	88	15A*	AUTOMATIC SINKS	L-1	L-2
EF-4	EF-4	15A 89	90	15A	EF-5	EF-5	
EF-13	EF-13	15A 91	92	15A	OFFICE WT		
EF-14	EF-14	15A 93	94	15A	SPARE		
	SPARE	15A 95	96	15A	SPARE		
	SPARE	15A 97	98	15A	SPARE		
	SPARE	15A 99	100	15A	SPARE		
	SPARE	15A 101	102	15A	SPARE		
	SPACE	103	104		SPACE		
	SPACE	105	106		SPACE		
	SPACE	107	108		SPACE		
	SPACE	109	110		SPACE		
	SPACE	111	112		SPACE		
	SPACE	113	114		SPACE		
	SPACE	115	116		SPACE		
RESERVED FOR FUTURE EV	40A	117	118	40A	RESERVED FOR FUTURE EV		
	2P	119	120	2P			

NOTE: THE INDICATED PANEL ASSEMBLY MUST HAVE AN INTERRUPTING CAPACITY OF 10000 A. PROVIDE BY EITHER FULLY RATED BREAKERS OR INTEGRATED EQUIPMENT RATING WITH THE UPSTREAM BREAKER.

PANEL 'DPA'

VOLTAGE: 120/208 VOLTS
PHASE: 3P, 4W
MAINS: 400A
NEUTRAL BUS: FULL
MOUNTING: SURFACE
NOTES: C/W SPRINKLER HOOD

* INDICATES 33mA GROUND FAULT STYLE BREAKER

THE CONTRACTOR IS TO COORDINATE ROOM NAMES AND NUMBERS NOTED WITH THE FINAL ROOM INFORMATION ISSUED DURING CONSTRUCTION AND ADJUST DIRECTORIES TO SUIT.

HVAC-1	HVAC-1	35A	1	2	35A	HVAC-2	HVAC-2
			3	4			
		3P	5	6	3P		
ROOFTOP SERVICE REC		20A	7	8	20A	ROOFTOP SERVICE REC	
ROOFTOP SERVICE REC		20A	9	10	20A	ROOFTOP SERVICE REC	
CU-8	CU-8	35A	11	12	35A	CU-9	CU-9
		2P	13	14	2P		
CU-10	CU-10	35A	15	16	35A	CU-11	CU-11
		2P	17	18	2P		
CU-12	CU-12	35A	19	20	35A	CU-13	CU-13
		2P	21	22	2P		
CU-14	CU-14	35A	23	24	35A	CU-15	CU-15
		2P	25	26	2P		
CU-16	CU-16	35A	27	28	35A	CU-17	CU-17
		2P	29	30	2P		
CU-18	CU-18	35A	31	32	35A	CU-19	CU-19
		2P	33	34	2P		
CU-20	CU-20	35A	35	36	35A	CU-21	CU-21
		2P	37	38	2P		
CU-22	CU-22	35A	39	40	35A	CU-23	CU-23
		2P	41	42	2P		
CU-24	CU-24	35A	43	44	35A	CU-25	CU-25
		2P	45	46	2P		
CU-26	CU-26	35A	47	48	35A	CU-27	CU-27
		2P	49	50	2P		
	SPARE	15A	51	52	15A	SPARE	
	SPARE	15A	53	54	15A	SPARE	
	SPARE	15A	55	56	15A	SPARE	
	SPARE	15A	57	58	15A	SPARE	
	SPARE	15A	59	60	15A	SPARE	
	SPARE	15A	61	62	15A	SPARE	
	SPARE	15A	63	64	15A	SPARE	
	SPARE	15A	65	66	15A	SPARE	
	SPARE	15A	67	68	15A	SPARE	
	SPARE	15A	69	70	15A	SPARE	
	SPARE	15A	71	72	15A	SPARE	

NOTE: THE INDICATED PANEL ASSEMBLY MUST HAVE AN INTERRUPTING CAPACITY OF 22000 A. PROVIDE BY EITHER FULLY RATED BREAKERS OR INTEGRATED EQUIPMENT RATING WITH THE UPSTREAM BREAKER.

NO.	DESCRIPTION	DATE
1	ISSUED FOR TENDER	03.27.25

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The drawings show general arrangement of services. Follow as closely as actual building construction will permit. Obtain approval for relocation of service from Consultant before commencement of the work.
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Do not scale this drawing.
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Professional Engineers Ontario
03-27-2025
Limited Engineering Licensee
Name: D.G. MCCONKEY
Number: 100230476
Limitations: Detailed design, reporting, and specifications for all building electrical systems, site servicing and review of conformity for these systems in new and renovation construction
Association of Professional Engineers of Ontario

CRESTVIEW OFFICE RENOVATION & HVAC UPGRADE

153 Montcalm Drive, Kitchener, ON, N2B 2R6

Waterloo Region District School Board

ELECTRICAL PANEL SCHEDULES

DEI Consulting Engineers
MECHANICAL | ELECTRICAL | AQUATIC
55 Northland Road, Waterloo, ON N2V 1Y8
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Project Number: 24241

SCALE As indicated	PROJECT 24113
DATE March 2025	
DRAWN T.M.	DRAWING E22
CHECKED D.M.	
PRINT DATE	-
REVIT FILE	-

LIGHT FIXTURE SCHEDULE

Item	Manufacturer/Catalog Number	Voltage	Lamp	Mounting	CRI	Listings	Description
L1	COOPER CAT. #2GR-LD1-48-A-UNV-L840-CD1 LITHONIA CAT. #2GTL4-48L-EZ1-LP840 SIGNIFY CAT. #2TG48LB40-4-FS-02F-UNV-DIM	120V	LED 4800 LUMENS 4000K 45W	SURFACE	80	DLC DAMP LOC.	2X4 (610MMX1220MM) LED TROFFER C/W PATTERN 12 LENS AND WHITE FINISH.
L2	COOPER CAT. #24CGT4540C LITHONIA CAT. #CPX 2X4 5000LM 80CRI 40K SWL MIN10 ZT MVOLT SIGNIFY CAT. #2FPZ38LB40-4-DS-UNV-DIM	120V	LED 4351 LUMENS 4000K 39.4W	RECESSED	80	DLC DAMP LOC.	1'X4' (305MMX1220MM) LED BACKLIT FLAT PANEL FIXTURE C/W WHITE FROSTED LENS, 10% 0-10V DIMMING DRIVER, AND WHITE FINISH.
L3	COOPER CAT. #RTS2LED-LD5-88SL-LW-UNV-L840-CD-2-AYC-2/WG-SNF-4FT LITHONIA CAT. #CLX L96 10000LM SEF RDL WD MVOLT CZ10 40K 80CRI WH/WCCLX48(2) SIGNIFY CAT. #SDS84988LBCST-UNS-DIM-FXR-126-2XSDS4WG	120V	LED 8996 LUMENS 4000K 61W	RECESSED	80	DLC DAMP LOC.	8' (2440MM) SUSPENDED LED STRIP LIGHT C/W WIDE LENSED OPTICAL DISTRIBUTION, CHAIN SUSPENSION KIT, TWO 10% 0-10V DIMMING DRIVERS, AND WIRE GUARD. SUSPEND TO MAINTAIN MAXIMUM HEADROOM.
L4	COOPER CAT. #RTS4LED-LD5-44SL-LW-UNV-L840-CD-1-AYC-WG/SNF-4FT LITHONIA CAT. #CLX L48 5000LM SEF RDL WD MVOLT GZ10 40K 80CRI WH/WCCLX48 SIGNIFY CAT. #SDS42448LBCST-UNS-DIM-FXR-126-SDS4WG	120V	LED 4601 LUMENS 4000K 38W	RECESSED	80	DLC DAMP LOC.	4' (1220mm) SURFACE LED STRIP LIGHT C/W WIDE LENSED OPTICAL DISTRIBUTION, CHAIN SUSPENSION KIT, 10% 0-10V DIMMING DRIVER, AND WIRE GUARD.
R1	COOPER CAT. #HC610D010-HM612840-61MDHWF LITHONIA CAT. #LDN6 40/10 LO6AR LSS MVOLT GZ1 TRW LIGHTOLIER CAT. #6RN-C6L10840MZ10U-C6RDLXX	120V	LED 948 LUMENS 4000K 10W	RECESSED	80	ENERGY STAR WET LOC.	RECESSED 6" (150mm) DIAMETER LED DOWNLIGHT C/W SELF-FLANGED 60 DEGREE BEAM REFLECTOR, SEMI-SPECULAR CLEAR FINISH, AND 1% 0-10V DIMMING DRIVER. ARCHITECT TO CONFIRM FLANGE FINISH.
R2	COOPER CAT. #LD6C10D010TR-EU6C10208030-6LBMN1H-LGSKT6IP66	120V	LED 1000 LUMENS 3000K 11W	RECESSED	90	WET LOC.	RECESSED 6" (150mm) DIAMETER LED DOWNLIGHT C/W SELF-FLANGED 50 DEGREE BEAM REFLECTOR, SEMI-SPECULAR CLEAR FINISH, IP66 GASKET KIT, AND 5% 0-10V DIMMING DRIVER. ARCHITECT TO CONFIRM FLANGE FINISH.
EXIT LIGHTS (SELF-POWERED)	EM-1: AIMLITE CAT. #EWBL SERIES LUMACELL CAT. #LBL SERIES OR APPROVED EQUALS BY STANPRO	12V/120V	LED 2.5 WATT (MAX.)AC 2 WATT (MAX.)DC	SURFACE	N/A	N/A	LED EXTRUDED ALUMINUM PICTOGRAM FIXTURE C/W GREEN FACE AND WHITE LEGEND, UNIVERSAL MOUNTING TO SUIT WALL, END OR CEILING, MAXIMUM 2.5" (63mm) THICKNESS AND 12V INTERNAL SEALED RECHARGABLE BATTERY PROVIDING MINIMUM 30 MINUTES OF EMERGENCY POWER, AND AUTOTEST FEATURE. FACES AND CHEVRONS TO SUIT DRAWINGS.
EMERG. LIGHTS	AIMLITE CAT. #RMSM212V4WLJWHT STANPRO CAT. #N2-06-12V4WLJWH LUMACELL CAT. #MQM2LD7	12V	LED 2-4W PAR18	SURFACE	N/A	N/A	VANDAL RESISTANT, LONG LIFE, SEALED BATTERY, C/W 17W LED MODULES, POLYCARBONATE BODY, AND 90 MINUTE BATTERY DURATION.
COMBO UNIT (WEATHER-PROOF)	AIMLITE CAT. #CRPN SERIES EM-8 #CRPN12036XWHT24WLRATDCW1 STANPRO CAT. #PRMRN SERIES EM-8 #PRMRN1036XWH-24LR/AT/CW1	12V/120V	LED 2-4W MR16	SURFACE	N/A	NEMA 4X NSF2	LED PICTOGRAM FIXTURE C/W GREEN FACE AND WHITE LEGEND, UNIVERSAL MOUNTING TO SUIT WALL, END OR CEILING, WHITE FINISH, COLD WEATHER RATING, 12V INTERNAL SEALED RECHARGABLE BATTERY PROVIDING MINIMUM EMERGENCY WATTAGE AS NOTED BY THE CATALOGUE NUMBER, AND AUTOTEST FEATURE. INTEGRAL 12V LED HEADS TO HAVE COMPACT DESIGN WITH WHITE COLOUR, FULL AIMING ADJUSTMENT, AND 360° ROTATION. WHERE NOTED UNIT SHALL BE C/W WIREGUARD. FACES AND CHEVRONS TO SUIT DRAWINGS.
EMERG. BATT.	EM-2: BEGHELLI NV12 SERIES #NV12-200/SR EMERGILITE CAT. #12LSE SERIES LUMACELL CAT. #RGS SERIES STANPRO CAT. #SLA-12 SERIES AIMLITE CAT. #EBST12 SERIES READY-LITE CAT. #LD12X SERIES	12V/120V	LED 2-4W MR16	SURFACE	N/A	N/A	LONG LIFE, SEALED BATTERY, C/W MICRO SIZE 12V 4W (MINIMUM) LED HEADS.

NOTES:
1. 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.
2. 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.

EQUIPMENT WIRING SCHEDULE

E = ELECTRICAL
M = MECHANICAL
O = OTHERS

Description		Electrical Data				Starter						Ctrl Device			Isolating Device			Remote Items														Other		Interlock		Remarks
Mechanical Item	Description	Provided By	Voltage	Size hp/kW/Amps	Phase	MOCP	Magnetic	Manual	Combination	Contactor	VFD	ECM	Hand/Off/Auto	On/Off Selector	High/Low/Off	Pilot Light	Disconnect	WP Disconnect	Breaker/Fuse	Starter/Device Wired by	Thermostat	RA Thermostat	Programmable Time Clock	Current Sensor	Occ Sensor	Variable Speed Control	Dual Voltage Relay	Interval Timer	VRF System Controll Panel	Smoke Control System Panel	Control Panel	Wired by	Bldg Auto System	Wired By	Miscellaneous 1	Miscellaneous 2	Interlock to	Interlock by	
L-1	ELECTRONIC HARDWIRED FAUCET	M	120	FHP	1														E	E																	PROVIDE RECEPTACLE
L-2	ELECTRONIC HARDWIRED FAUCET	M	120	FHP	1														E	E																	PROVIDE RECEPTACLE
H2	CAB. HEATER	M	120	FHP	1												E		E	E	M										M	M	M				
H3	UNIT HEATER	M	120	FHP	1												E		E	E	M										M	M	M				
EF-4	EXHAUST FAN (CEILING MOUNTED)	M	120	FHP	1												E		E	E							E				E	M	M				
EF-5	EXHAUST FAN (CEILING MOUNTED)	M	120	FHP	1												E		E	E		E									E	M	M				
EF-6	EXHAUST FAN (FAN RM)	M	208	3.0HP	3				E								E		E	E												M	M				
EF-7	EXHAUST FAN (FAN RM)	M	208	3.0HP	3					M							E		E	E												M	M				
EF-8	EXHAUST FAN (FAN RM)	M	208	1/4HP	3												E		E	E							M				E	M	M				
EF-9	EXHAUST FAN (ROOF MOUNTED)	M	208	1.5HP	3					M								E	E	E												M	M				
EF-10	EXHAUST FAN (ROOF MOUNTED)	M	208	3/4HP	3				E									E	E	E												M	M				
EF-11	EXISTING EXHAUST FAN – RE-NUMBER ONLY																																				
EF-12	EXHAUST FAN (ROOF MOUNTED)	M	208	1.5HP	3					M								E	E	E												M	M				
EF-13	EXHAUST FAN (RANGE HOOD)	M	120	FHP	1												E		E	E						M											
EF-14	EXHAUST FAN (CEILING MOUNTED)	M	120	FHP	1												E		E	E								E			E	M	M				
HVAC-1	HAVC UNIT (ROOF MOUNTED)	M	208	25 MCA	3	35												E	E	E	M											M	M				
HVAC-2	HAVC UNIT (ROOF MOUNTED)	M	208	25 MCA	3	35												E	E	E	M											M	M				
UV-8	UNIT VENTILATOR	M	120	6.3 A	1	15											E		E	E	M										M	M	M			CU-8	E	INTERLOCK TO MOTORIZED DAMPER IN RELIEF DUCT
UV-9	UNIT VENTILATOR	M	120	6.3 A	1	15											E		E	E	M										M	M	M			CU-9	E	INTERLOCK TO MOTORIZED DAMPER IN RELIEF DUCT
UV-10	UNIT VENTILATOR	M	120	6.3 A	1	15											E		E	E	M										M	M	M			CU-10	E	INTERLOCK TO MOTORIZED DAMPER IN RELIEF DUCT
UV-11	UNIT VENTILATOR	M	120	6.3 A	1	15											E		E	E	M										M	M	M			CU-11	E	INTERLOCK TO MOTORIZED DAMPER IN RELIEF DUCT
UV-12	UNIT VENTILATOR	M	120	6.3 A	1	15											E		E	E	M										M	M	M			CU-12	E	INTERLOCK TO MOTORIZED DAMPER IN RELIEF DUCT
UV-13	UNIT VENTILATOR	M	120	6.3 A	1	15											E		E	E	M										M	M	M			CU-13	E	INTERLOCK TO MOTORIZED DAMPER IN RELIEF DUCT
UV-14	UNIT VENTILATOR	M	120	6.3 A	1	15											E		E	E	M										M	M	M			CU-14	E	INTERLOCK TO MOTORIZED DAMPER IN RELIEF DUCT
UV-15	UNIT VENTILATOR	M	120	6.3 A	1	15											E		E	E	M										M	M	M			CU-15	E	INTERLOCK TO MOTORIZED DAMPER IN RELIEF DUCT
UV-16	UNIT VENTILATOR	M	120	6.3 A	1	15											E		E	E	M										M	M	M			CU-16	E	INTERLOCK TO MOTORIZED DAMPER IN RELIEF DUCT
UV-17	UNIT VENTILATOR	M	120	6.3 A	1	15											E		E	E	M										M	M	M			CU-17	E	INTERLOCK TO MOTORIZED DAMPER IN RELIEF DUCT
UV-18	UNIT VENTILATOR	M	120	6.3 A	1	15											E		E	E	M										M	M	M			CU-18	E	INTERLOCK TO MOTORIZED DAMPER IN RELIEF DUCT
UV-19	UNIT VENTILATOR	M	120	6.3 A	1	15											E		E	E	M										M	M	M			CU-19	E	INTERLOCK TO MOTORIZED DAMPER IN RELIEF DUCT
UV-20	UNIT VENTILATOR	M	120	6.3 A	1	15											E		E	E	M										M	M	M			CU-20	E	INTERLOCK TO MOTORIZED DAMPER IN RELIEF DUCT
UV-21	UNIT VENTILATOR	M	120	6.3 A	1	15											E		E	E	M										M	M	M			CU-21	E	INTERLOCK TO MOTORIZED DAMPER IN RELIEF DUCT
UV-22	UNIT VENTILATOR	M	120	6.3 A	1	15											E		E	E	M										M	M	M			CU-22	E	INTERLOCK TO MOTORIZED DAMPER IN RELIEF DUCT
UV-23	UNIT VENTILATOR	M	120	6.3 A	1	15											E		E	E	M										M	M	M			CU-23	E	INTERLOCK TO MOTORIZED DAMPER IN RELIEF DUCT
UV-24	UNIT VENTILATOR	M	120	6.3 A	1	15											E		E	E	M										M	M	M			CU-24	E	INTERLOCK TO MOTORIZED DAMPER IN RELIEF DUCT
UV-25	UNIT VENTILATOR	M	120	6.3 A	1	15											E		E	E	M										M	M	M			CU-25	E	INTERLOCK TO MOTORIZED DAMPER IN RELIEF DUCT
UV-26	UNIT VENTILATOR	M	120	6.3 A	1	15											E		E	E	M										M	M	M			CU-26	E	INTERLOCK TO MOTORIZED DAMPER IN RELIEF DUCT
UV-27	UNIT VENTILATOR	M	120	6.3 A	1	15											E		E	E	M										M	M	M			CU-27	E	INTERLOCK TO MOTORIZED DAMPER IN RELIEF DUCT
CU-8	CONDENSING UNIT	M	208	21.5 A	1	35												E	E	E												M	M	M			UV-8	E	
CU-9	CONDENSING UNIT	M	208	21.5 A	1	35												E	E	E												M	M	M			UV-9	E	
CU-10	CONDENSING UNIT	M	208	21.5 A	1	35												E	E	E												M	M	M			UV-10	E	
CU-11	CONDENSING UNIT	M	208	21.5 A	1	35												E	E	E												M	M	M			UV-11	E	
CU-12	CONDENSING UNIT	M	208	21.5 A	1	35												E	E	E												M	M	M			UV-12	E	
CU-13	CONDENSING UNIT	M	208	21.5 A	1	35												E	E	E												M	M	M			UV-13	E	
CU-14	CONDENSING UNIT	M	208	21.5 A	1	35												E	E	E												M	M	M			UV-14	E	
CU-15	CONDENSING UNIT	M	208	21.5 A	1	35												E	E	E												M	M	M			UV-15	E	
CU-16	CONDENSING UNIT	M	208	21.5 A	1	35												E	E	E												M	M	M			UV-16	E	
CU-17	CONDENSING UNIT	M	208	21.5 A	1	35												E	E	E												M	M	M			UV-17	E	
CU-18	CONDENSING UNIT	M	208	21.5 A	1	35												E	E	E												M	M	M			UV-18	E	
CU-19	CONDENSING UNIT	M	208	21.5 A	1	35												E	E	E												M	M	M			UV-19	E	
CU-20	CONDENSING UNIT	M	208	21.5 A	1	35												E	E	E												M	M	M			UV-20	E	
CU-21	CONDENSING UNIT	M	208	21.5 A	1	35												E	E	E												M	M	M			UV-21	E	
CU-22	CONDENSING UNIT	M	208	21.5 A	1	35												E	E	E												M	M	M			UV-22	E	
CU-23	CONDENSING UNIT	M	208	21.5 A	1	35												E	E	E												M	M	M			UV-23	E	
CU-24	CONDENSING UNIT	M	208	21.5 A	1	35												E	E	E												M	M	M			UV-24	E	
CU-25	CONDENSING UNIT	M	208	21.5 A	1	35												E	E	E												M	M	M			UV-25	E	
CU-26	CONDENSING UNIT	M	208	21.5 A	1	35												E	E	E												M	M	M			UV-26	E	
CU-27	CONDENSING UNIT	M	208	21.5 A	1	35												E	E	E												M	M	M			UV-27	E	
VVT	VVT POWER	M	120	FHP	1														E	E																	PROVIDE JUNCTION BOX IN CEILING

Notes:

1. PROVIDE MAIN FEED TO UNIT. PROVIDE ADDITIONAL FEED FROM TERMINAL STRIPS WITHIN UNIT TO VARIABLE FREQUENCY DRIVE AND BACK TO UNIT (IN SEPARATE CONDUITS). COORDINATE CONDUCTOR SIZE TO AND FROM VARIABLE FREQUENCY DRIVE WITH MECHANICAL SHOP DRAWINGS.
2. INDICATES MECHANICAL EQUIPMENT TO HAVE HAND/OFF/AUTO CONTROLS FOR FIREFIGHTER USE IN CACF. REFER TO FIRE ALARM RISER.
3. PROVIDE COMPLETE COOLING TOWER SYSTEM CONNECTIONS INCLUDING, BUT NOT LIMITED TO, MAINLINE FEED TO SYSTEM PANEL, SUBFEEDS TO ASSOCIATED SYSTEM EQUIPMENT & COMPONENTS, INTERLOCKS TO ASSOCIATED EQUIPMENT & COMPONENTS, AND ADDITIONAL WIRING AND DISCONNECTS PER COOLING TOWER SYSTEM CONNECTION DETAIL.

NO.	DESCRIPTION	DATE
1	ISSUED FOR TENDER	03.27.25

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ELECTRICAL SCHEDULES

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Website: deiassociates.ca
Project Number: 24341

SCALE	As indicated
DATE	March 2025
DRAWN	T.M.
CHECKED	D.M.
PROJECT	24113
DRAWING	E24
PRINT DATE	-
REVIT FILE	-