

## BUILDING SERVICES

PERMIT NO: 22-111973 REV 01

**DATE:** 08/16/2024



TOWN OF OAKVILLE



ONTARIO

GLADYS SPEERS PUBLIC  
SCHOOL RENOVATIONS  
2150 SAMWAY RD,

# OAKVILLE



Unit 100 - 706 Euclid Avenue  
Toronto, Ontario, Canada M6G 2T9  
Tel:(416)591-6575 Fax:(416)591-1010

Title:

ENLARGED  
LIBRARY 22 PLAN

Date: APR. 19, 2024

Issued:	
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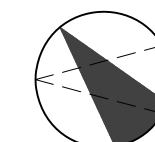
Drawn by:  
L.Z.

Scale:  
1:50

Job No: 21153

	Drawing:
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SK10



REMOVE EXISTING DOOR AND  
FRAME AS SHOWN DOTTED  
INFILL EXISTING DOOR OPENING  
WITH CONCRETE BLOCKS  
MAKE GOOD, PAINT.  
PROVIDE 1200W X 2400H  
WHITEBOARD 150 AFF

SAWCUT AND REMOVE EXISTING TERRAZZO  
FLOORING TO NEAREST JOINT  
PROVIDE TERRAZZO TO EXTEND AS SHOWN  
PROVIDE TERRAZZO BASE TO MATCH EXISTING  
RETURNED TO FRAME

SHORE AND BRACE WALL AS REQUIRED  
SAWCUT OPENING 200 WIDER AT EACH JAMB  
AND ONE BLOCK COURSE ABOVE HEAD  
- PROVIDE LINTEL REFER TO DRAWING SK11 DETAIL 1  
PROVIDE BULLNOSE BLOCK

## 1hr FRR Fire Separation

 <b>BUILDING SERVICES</b>	
<b>REVIEWED</b>	
PERMIT IS ISSUED SUBJECT TO ANY REASON SHOWN IN COLOUR AND MARKED THEREON OR ON ATTACHE DOCUMENT.	
PERMIT NO:	22-111973R1
DATE:	Sep.24, 2024
REVIEWED BY:	N. Varias
CONSTRUCTION MUST CONFORM TO THE ONTARIO BUILDING CODE	

3/4hr FPR door &  
frame c/w closer

REMOVE EXISTING WALL MOUNTED PA SPEAKER  
PROVIDE CELING MOUNTED PA SPEAKER  
REMOVE AND REINSTALL EXISTING ELECTRICAL  
EQUIPMENT AS REQUIRED  
-SEE ELECTRICAL  
REPAIR DAMAGE TO EXISTING SUBSTRATE  
CAUSED BY REMOVAL OF MECHANICAL  
FASTENERS  
MAKE GOOD

REMOVE EXISTING MILLWORK AS SHOWN DOTTED  
REPAIR DAMAGE TO EXISTING SUBSTRATE CAUSED  
BY REMOVAL OF MECHANICAL FASTENERS  
MAKE GOOD

REMOVE EXISTING CABINETS, COUNTERTOP AND CUPBOARD AS SHOWN DOTTED  
REPAIR DAMAGE TO EXISTING SUBSTRATE CAUSED BY REMOVAL OF MECHANICAL FASTENERS  
MAKE GOOD

REMOVE EXISTING DOOR AND FRAME AS SHOWN DOTTED  
PROVIDE DOOR AND FRAME AND SIDELIGHTS  
MAKE GOOD. PAINT.  
PROVIDE ALP LOCKDOWN SHADES 950W X 1120H AT  
DOOR GLAZING  
PROVIDE ROLLER SHADE AT DOOR SCREEN SIDELITES

REMOVE AND REINSTALL  
EXISTING WHITEBOARD

REMOVE EXISTING  
MILLWORK AS SHOWN DOTTED  
REPAIR DAMAGE TO EXISTING  
SUBSTRATE CAUSED BY REMOVAL  
OF MECHANICAL FASTENERS  
MAKE GOOD

Max. 60 persons occupant load to be posted

### — REMOVE AND REINSTALL EXISTING TACKBOARD

REMOVE EXISTING  
MILLWORK AS SHOWN DOTTED  
REPAIR DAMAGE TO EXISTING  
SUBSTRATE CAUSED BY REMOVAL  
OF MECHANICAL FASTENERS  
MAKE GOOD

REMOVE EXISTING  
MILLWORK AS SHOWN DOTTED  
REPAIR DAMAGE TO EXISTING  
SUBSTRATE CAUSED BY REMOVAL  
OF MECHANICAL FASTENERS  
MAKE GOOD

REMOVE EXISTING WOOD LAMINATED FLOORING, CARPET AND RUBBER BASE  
CLEAN RESIDUAL ADHESIVE  
PROVIDE LVT FLOORING AND 150 RUBBER BASE  
REMOVE AND REPLACE EXISTING WINDOW SHADES  
PREPARE EXISTING SUBSTRATE, PRIME AND PAINT EXISTING WALLS AT ENTIRE ROOM  
REPAIR DAMAGE TO EXISTING SUBSTRATE CAUSED BY REMOVAL OF MECHANICAL  
FASTENERS  
MAKE GOOD

REMOVE EXISTING RADIATORS  
AS SHOWN DOTTED  
-SEE MECHANICAL

ELEMENTS OF STRUCTURES, NON-STRUCTURAL COMPONENTS AND THEIR EQUIPMENT INCLUDING THEIR CONNECTIONS TO THE STRUCTURE SHALL BE DESIGNED IN CONFORMANCE WITH OBC DIV.B, PART 4.

PORTABLE EXTINGUISHERS SHALL BE PROVIDED AND INSTALLED IN CONFORMANCE WITH THE ONTARIO FIRE CODE

IN BUILDING OF COMBUSTIBLE  
CONSTRUCTION, EXCEPT FOR  
EXIT CLOSURES, FLAME SPREAD  
RATING SHALL NOT EXCEED 150  
ON WALLS AND CEILINGS

RECEIVED

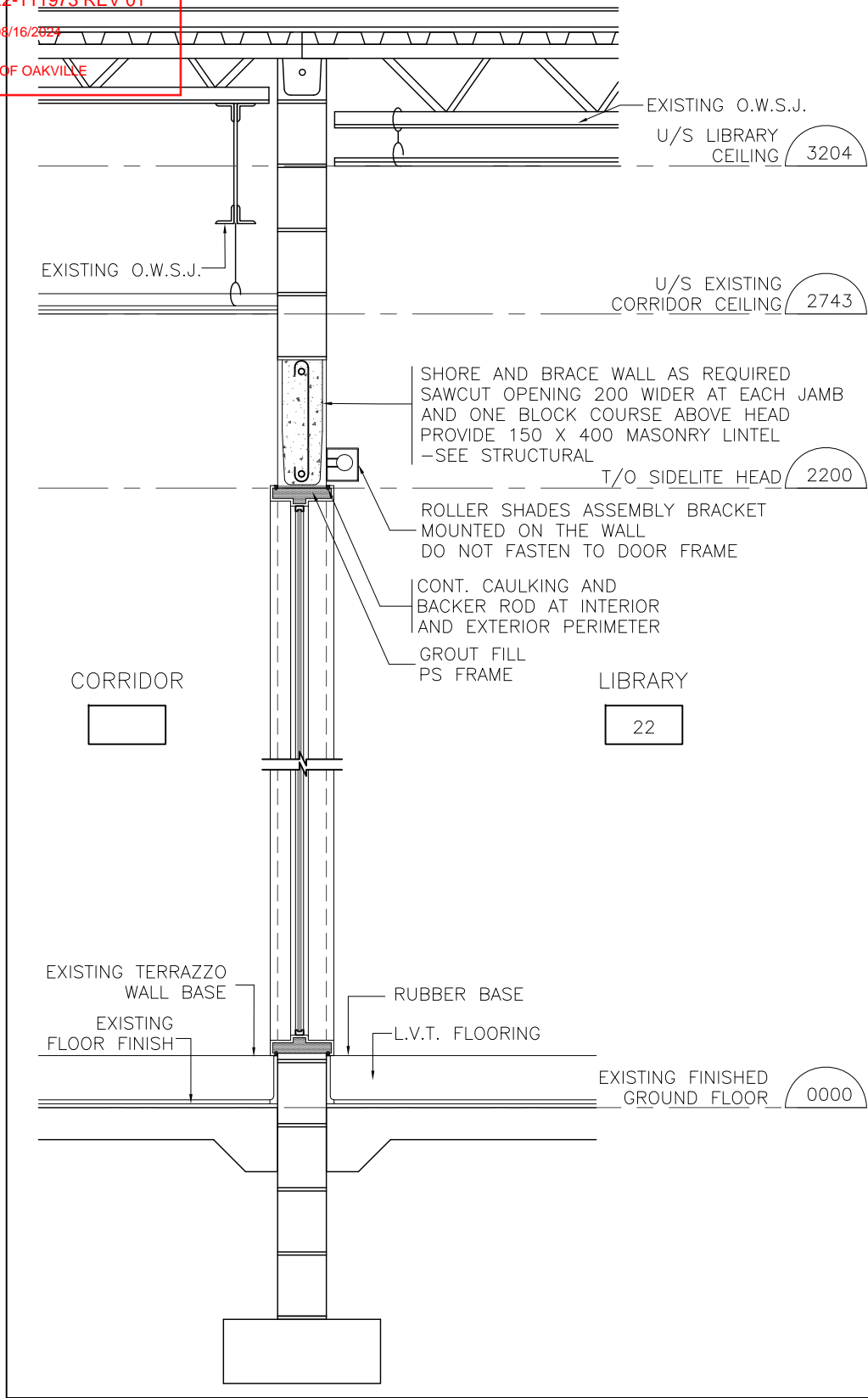
BUILDING SERVICES

PERMIT NO: 22-111973 REV 01

DATE: 08/16/2024

OAKVILLE

TOWN OF OAKVILLE



1

DOOR 22 SCREEN EXISTING MASONRY WALL

SECTION

1:20

OAKVILLE

BUILDING SERVICES

REVIEWED

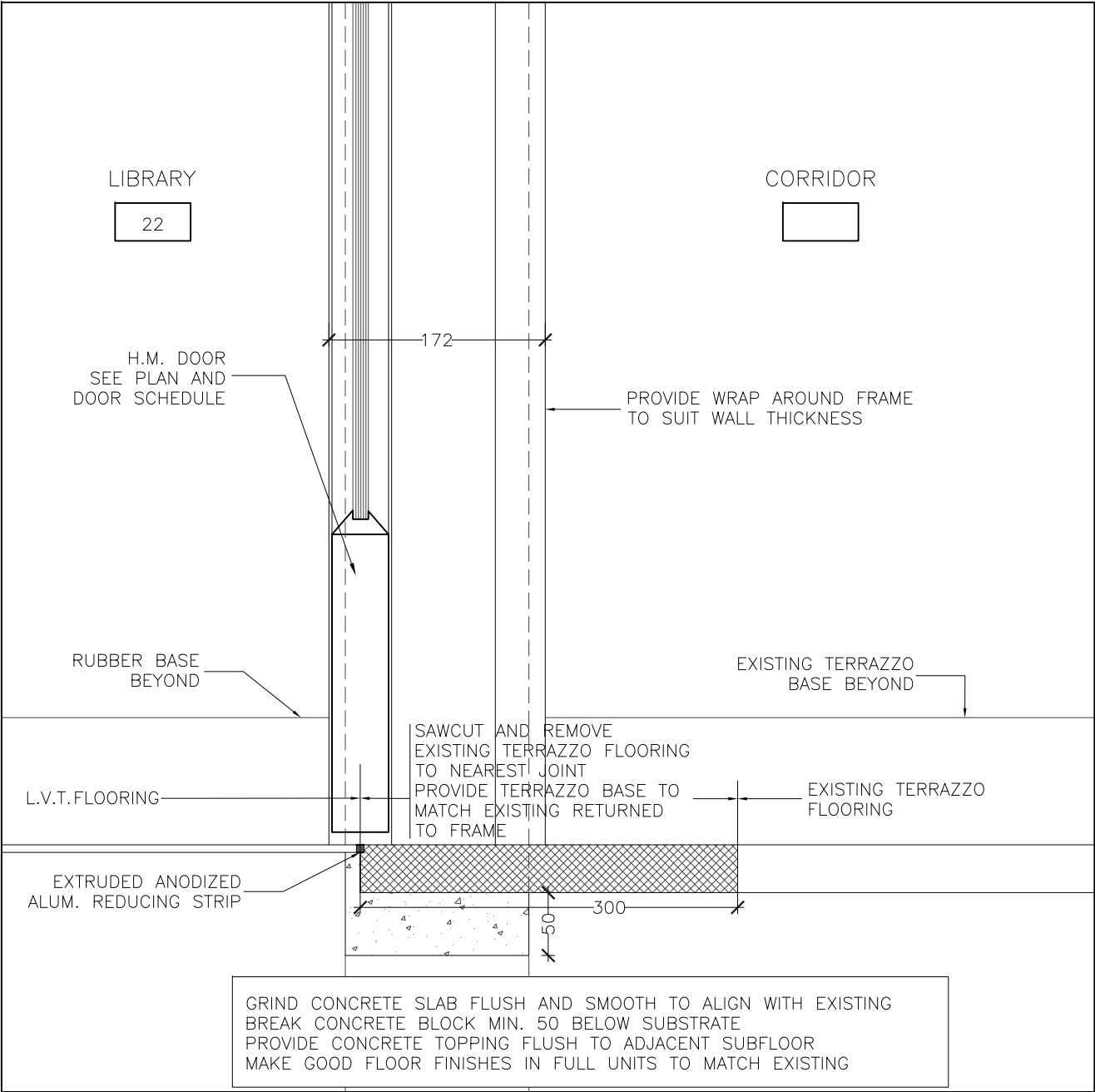
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REVIEWED BY: N. Varias

CONSTRUCTION MUST CONFORM TO THE ONTARIO BUILDING CODE



2

DOOR THRESHOLD

SECTION

1:5

ONTARIO ASSOCIATION OF ARCHITECTS

MINGPENG LIU

LICENCE 9826

GLADYS SPEERS PUBLIC SCHOOL RENOVATIONS

2150 SAMWAY RD,

OAKVILLE

ONTARIO

Unit 100 – 706 Euclid Avenue

Toronto, Ontario, Canada M6G 2T9

Tel:(416)591-6575 Fax:(416)591-1010

Title:

SECTION AND DETAIL

Date:

APR. 19, 2024

Issued:

Drawn by:

L.Z.

Scale:

1:5

Job No:

21153

Drawing:

SK11

RECEIVED

BUILDING SERVICES

PERMIT NO: 22-111973 REV 01

DATE: 08/16/2024

OAKVILLE

TOWN OF OAKVILLE

LIBRARY

22



Doing electrical work? A notification must be filed with the Electrical Safety Authority. Hiring someone to do electrical work? They must be a Licensed Electrical Contractor. It's the law. For more information go to [esasafe.com](http://esasafe.com) or call 1-877-372-7233



ONTARIO

OAKVILLE

GLADYS SPEERS PUBLIC  
SCHOOL RENOVATIONS  
2150 SAMWAY RD,



Unit 100 – 706 Euclid Avenue  
Toronto, Ontario, Canada M6G 2T9  
Tel:(416)591–6575 Fax:(416)591–1010

Title:  
ENLARGED  
LIBRARY REFLECTED  
CEILING PLAN

Date:  
APR. 19, 2024

Issued:

Drawn by:  
L.Z.

Scale:  
1:50

Job No:  
21153

Drawing:

SK12

BUILDING SERVICES

OAKVILLE

REVIEWED

PERMIT IS ISSUED SUBJECT TO ANY REASON SHOWN IN COLOUR AND MARKED THEREON OR ON ATTACHED DOCUMENT.

PERMIT NO: 22-111973R1

DATE: Sep.24, 2024

REVIEWED BY: N. Varias

CONSTRUCTION MUST CONFORM TO THE ONTARIO BUILDING CODE

3.8.1.5.(1) Controls

Controls for the operation of building services or safety devices, including electrical switches, thermostats and intercom switches, intended to be operated by the occupant and located in a barrier-free path of travel shall,

(a) be mounted,

(i) 1 200 mm above the finished floor, in the case of a thermostat or a manual pull station, and

(ii) not less than 900 mm and not more than 1 100 mm above the finished floor, in the case of all other controls, and

(b) be located so as to be adjacent to and centred on either the length or the width of a clear floor space of 810 mm by 1 370 mm, and

(c) be operable,

(i) using one hand, without requiring tight grasping, pinching with fingers or twisting of the wrist, and with a force of not more than 22.2 N, in the case of a manual pull station, and

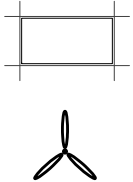
(ii) using a closed fist and with a force of not more than 22.2 N, in the case of all other controls.

REMOVE EXISTING ACOUSTIC TILE PANELS  
PROVIDE ACOUSTIC TILE PANELS  
EXISTING T-BARS TO REMAIN  
CLEAN AND MAKE GOOD  
EXISTING RECESSED LIGHT FIXTURES TO REMAIN  
CLEAN LENSES BOTH SIDES

Emergency Lighting

Emergency lights shall be provided along paths of egress as per 3.2.7. or 9.9.12.  
Emergency lighting shall always be maintained to an average level of illumination of at least 10 lx at floor level.

LEGEND



EXISTING LIGHT FIXTURE TO REMAIN  
CLEAN LENSES BOTH SIDES

REMOVE AND REINSTALL EXISTING FAN  
CLEAN FAN LEAVES BOTH SIDES

NOTE:  
DO NOT FASTEN TO OR SUSPEND FROM METAL DECK  
PROVIDE SECONDARY FRAMING SYSTEM  
TO STRUCTURAL MEMBERS AS REQUIRED  
SEE MECHANICAL AND ELECTRICAL

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GENERAL NOTES

1. THE NEW STEEL LINTEL HAS BEEN DESIGNED AND REVIEWED IN ACCORDANCE WITH THE ONTARIO BUILDING CODE 2012. AMENDED BY RESOLUTION 88/19, EFFECTIVE JANUARY 1, 2020.
2. THE CONTRACTOR SHALL CHECK ALL DIMENSIONS WITH THE SITE CONDITIONS AND THE LATEST ISSUE OF ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS. REPORT ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.
3. READ STRUCTURAL DRAWINGS IN CONJUNCTION WITH SPECIFICATIONS AND OTHER CONTRACT DOCUMENTS.
4. SEE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATION OF OPENINGS, EQUIPMENT BASES, SUMP PITS, AND TRENCHES NOT INDICATED ON STRUCTURAL DRAWINGS.
5. SEE DRAWINGS FOR DESIGN LOADS. DO NOT EXCEED DURING CONSTRUCTION.
6. ALL REFERENCES TO CODES & STANDARDS ARE TO THE LATEST ISSUE.

SITE INSPECTION REPORTS & TESTING

1. THE ONTARIO BUILDING CODE 2012 SPECIFIES THAT GENERAL FIELD REVIEWS OF THE BUILDING BE CARRIED OUT DURING THE COURSE OF CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF THE START OF CONSTRUCTION TO FACILITATE SUCH REVIEWS BY THE STRUCTURAL ENGINEER.

STRUCTURAL METAL

1. CONFORM TO CSA STANDARD CAN/CSA S16 LIMIT STATES DESIGN OF STEEL STRUCTURES.
2. CONFORM TO CSA STANDARD W55.3, RESISTANCE WELDING QUALIFICATIONS CODE FOR FABRICATORS OF STRUCTURAL MEMBERS USED IN BUILDINGS.
3. CONFORM TO CSA STANDARD W59, WELDED STEEL CONSTRUCTION (METAL ARC WELDING).
4. WELDING ELECTRODES – CSA STANDARD W48, FILLER METALS AND ALLIED MATERIALS FOR METAL ARC WELDING.
5. STRUCTURAL STEEL – CSA STANDARD G40.20/G40.21, GENERAL REQUIREMENTS FOR ROLLED OR WELDED STRUCTURAL QUALITY STEEL/STRUCTURAL QUALITY STEELS. GRADE 350W FOR GENERAL PURPOSE STRUCTURAL STEEL SHAPES, 300W FOR ANGLES, CHANNELS, RODS AND PLATES. HOLLOW STRUCTURAL SECTIONS SHALL CONFORM TO CSA STANDARD G40.20 GRADE 350W, HOT FORM WELDED OR HOLLOW STRUCTURAL SECTION, CLASS H.
6. HIGH STRENGTH BOLTS, NUTS AND WASHERS A.S.T.M. STANDARD A325, STANDARD SPECIFICATION FOR STRUCTURAL BOLTS, STEEL, HEAT TREATED 120/105 ksi MINIMUM TENSILE STRENGTH OR A325M, STANDARD SPECIFICATION FOR HIGH STRENGTH BOLTS FOR STRUCTURAL STEEL JOINTS (METRIC).
7. ANCHOR RODS – A.S.T.M. F1554 GRADE 36
8. PRIMER:

A) STRUCTURAL STEEL NOT EXPOSED: CAN/CGSB–1.40 OR CISC/CPMA 1–73a OVER NOMINAL CLEANING. SSPC SPECIFICATION SP2 AND SP3.

DESIGN LOADS

BUILDING IMPORTANCE: HIGH

ROOF

100mm THK. MASONRY WALL: XX kPa

UNIT CONCRETE MASONRY

1. CONFORM TO CSA STANDARD S304.1 – DESIGN OF MASONRY STRUCTURES.
2. CONFORM TO CSA STANDARD A165 – CSA STANDARD ON CONCRETE MASONRY UNITS.
3. CONFORM TO CSA STANDARD A371 – MASONRY CONSTRUCTION FOR BUILDINGS.
4. CONFORM TO CSA STANDARD A370 – CONNECTORS FOR MASONRY.
5. MASONRY UNITS TO BE SUPPLIED TO THE FOLLOWING MINIMUM SPECIFICATION U.N.O.:  
HOLLOW BLOCK: H/15/A/M  
SOLID BLOCK: S/15/A/M
6. MORTAR AND GROUT TO CONFORM TO CSA STANDARD A179 – MORTAR AND GROUT FOR UNIT MASONRY.
7. MORTAR CUBES PREPARED IN THE FIELD TO HAVE A MINIMUM COMPRESSIVE STRENGTH OF 8.5 MPa.
8. GROUT CYLINDERS PREPARED IN THE FIELD TO HAVE A MINIMUM COMPRESSIVE STRENGTH OF 10.0 MPa.
9. TYPE S MORTAR U.N.O.
10. FINE GROUT U.N.O.
11. GROUT SLUMP TO BE 200mm TO 250mm U.N.O.

MASONRY LINTEL SCHEDULE

MARK	DEPTH (D)	REINFORCEMENT
ML1	400	1–20M TOP & BOTTOM 10M STIRRUP LINKS AT 200mm O/C.

 BUILDING DIVISION  
OAKVILLE REVIEWED

PERMIT NO: 22-111973 Rev 01

Structural Plans Review

DATE: 9/9/2024

REVIEWED BY: hbuys

NOTES:

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BUILDING SERVICES

PERMIT NO: 22-111973 REV 01

DATE: 08/16/2024

 TOWN OF OAKVILLE

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SEAL:



NO.	ISSUED FOR:	DATE (Y-M-D):
1.	ISSUED FOR INFORMATION	23-06-22
2.	ISSUED FOR CLIENT REVIEW	23-12-28
3.	ISSUED FOR PERMIT	24-03-15
4.		
5.		
6.		
7.		

PROJECT:  
GLADY SPEERS P.S. RECEPTION  
OFFICE RENOVATION  
2150 SAMWAY ROAD  
OAKVILLE, ON

CLIENT:  
WK LIM. & MP LIU  
ARCHITECTS INC.

SHEET TITLE:  
NOTES AND SCHEDULES

FOR CLIENT'S SOLE USE PER GOVERNING CONTRACT AND LIMITED TO APPLICABLE PROJECT. NO MODIFICATIONS OR REPRODUCTIONS WITHOUT WRITTEN APPROVAL OF RIMKUS. CONTRACTOR SOLELY RESPONSIBLE FOR VERIFYING ALL DIMENSIONS.

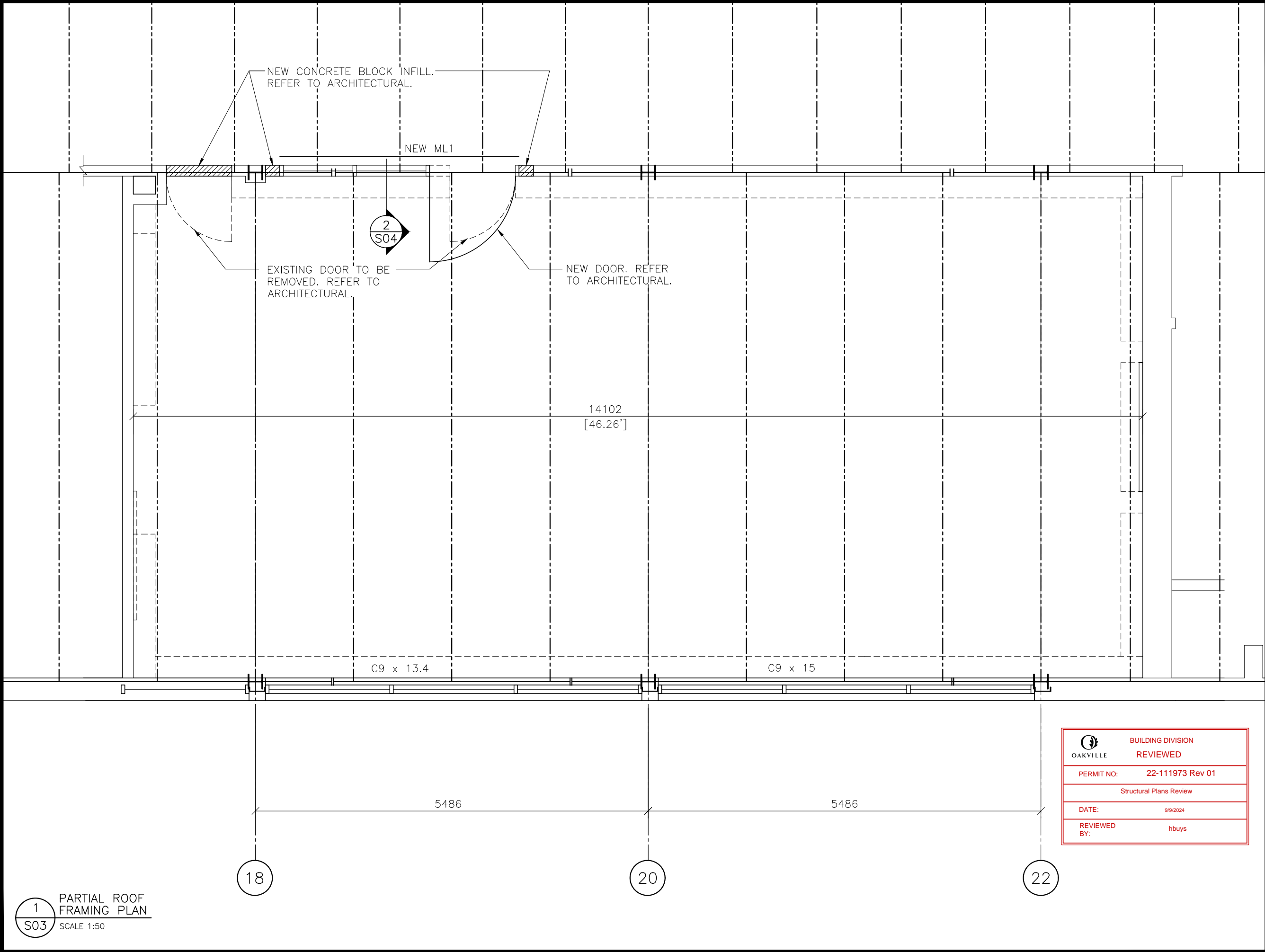
PROJECT NO:	100217771
DATE (Y-M-D):	2023-12-28
SCALE:	AS SHOWN
DESIGNED BY:	G.T.
DRAWN BY:	A.T.
CHECKED BY:	G.T.

DRAWING NO: S01

SHEET NO: 1 OF 4



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BUILDING SERVICES

PERMIT NO: 22-111973 REV 01

DATE: 08/16/2024

TOWN OF OAKVILLE

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SEAL:

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PROJECT:  
GLADY SPEERS P.S. RECEPTION  
OFFICE RENOVATION  
2150 SAMWAY ROAD  
OAKVILLE, ON

CLIENT:  
WK LIM. & MP LIU  
ARCHITECTS INC.

SHEET TITLE:  
**PARTIAL ROOF  
FRAMING PLAN**

FOR CLIENT'S SOLE USE PER GOVERNING CONTRACT  
AND LIMITED TO APPLICABLE PROJECT. NO  
MODIFICATIONS OR REPRODUCTIONS WITHOUT  
WRITTEN APPROVAL OF RIMKUS. CONTRACTOR SOLELY  
RESPONSIBLE FOR VERIFYING ALL DIMENSIONS.

PROJECT NO:	100217771
DATE (Y-M-D):	2023-12-28
SCALE:	AS SHOWN
DESIGNED BY:	G.T.
DRAWN BY:	A.T.
CHECKED BY:	G.T.

DRAWING NO:  
**S03**

SHEET NO: 3 OF 4

**BUILDING DIVISION  
REVIEWED**

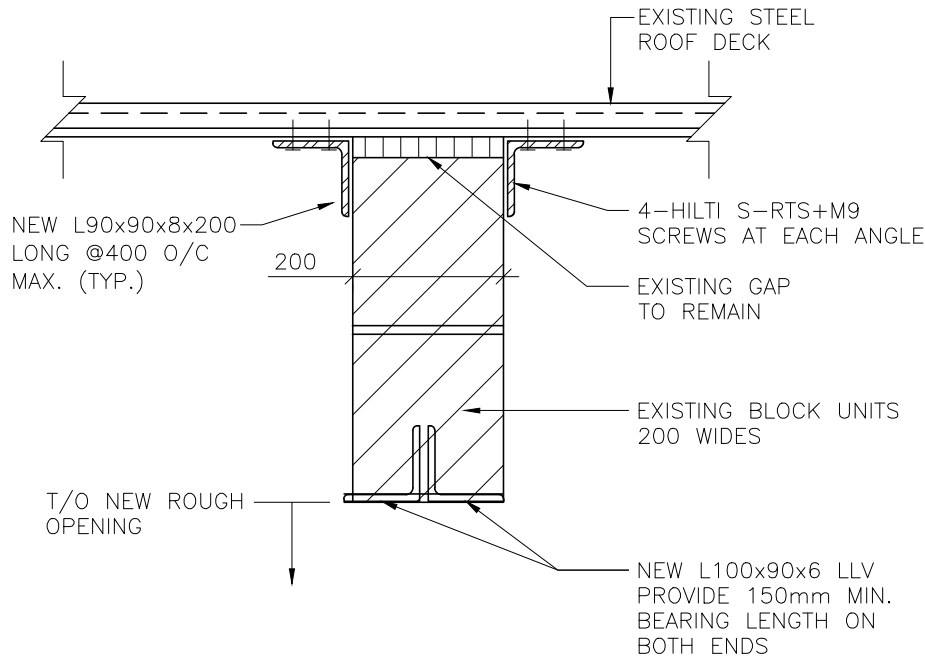
PERMIT NO: 22-111973 Rev 01

Structural Plans Review

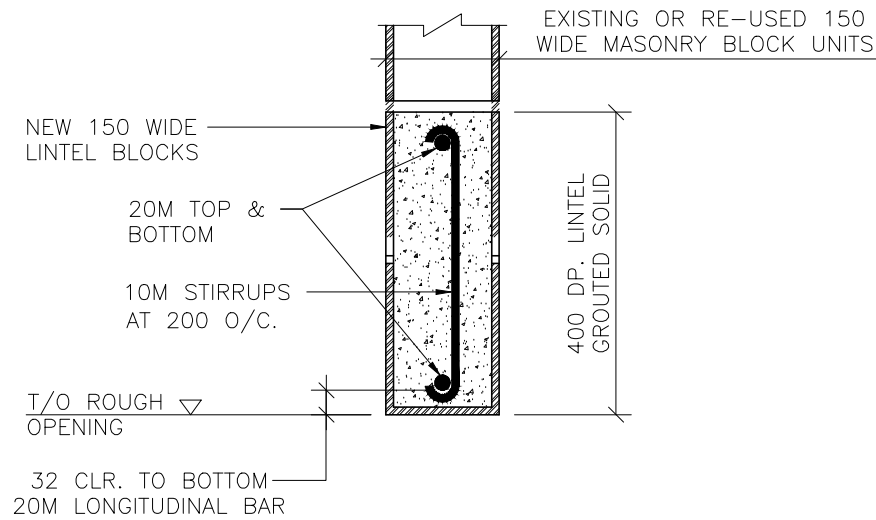
DATE: 9/9/2024

REVIEWED BY: hbuys


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1  
SECTION AT NEW LINTEL  
S04 SCALE 1:10



2  
MASONRY LINTEL SECTION  
S04 SCALE 1:10



BUILDING DIVISION

REVIEWED

PERMIT NO:

22-111973 Rev 01

Structural Plans Review

DATE:

9/9/2024

REVIEWED BY:

hbuys

NOTES:

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BUILDING SERVICES

PERMIT NO: 22-111973 REV 01


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TOWN OF OAKVILLE



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SEAL:



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PROJECT:  
GLADY SPEERS P.S. RECEPTION  
OFFICE RENOVATION  
2150 SAMWAY ROAD  
OAKVILLE, ON

CLIENT:  
WK LIM. & MP LIU  
ARCHITECTS INC.

SHEET TITLE:  
SECTIONS

FOR CLIENT'S SOLE USE PER GOVERNING CONTRACT  
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SCALE:	AS SHOWN
DESIGNED BY:	G.T.
DRAWN BY:	A.T.
CHECKED BY:	G.T.

DRAWING NO:  
S04

SHEET NO: 4 OF 4

**Firm Name:** W.K. Lim & M.P. Liu Architects inc.  
**Certificate of Practice Number:** 6505  
 Unit 100 – 706 Euclid Avenue  
 Toronto, Ontario M6G 2T9  
 Tel: 416-591-6575  
 Fax: 416-591-1010

**Name of Project:**  
 Gladys Spears Public School  
**Location:**  
 2150 Samway Road, Oakville, ON



Ontario's 2012 Building Code Data Matrix – Division B, Part 11 – Renovation of Existing Building				OBC Reference
11.1	Existing Building classification:	Describe Existing Use: <u>Elementary School</u> Construction Index: <u>(Unchanged)</u> Hazard Index: <u>(Unchanged)</u> <input checked="" type="checkbox"/> 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 <input checked="" type="checkbox"/> Extensive Renovation <input type="checkbox"/>		11.3.3.1 11.3.3.2
11.3	Reduction in Performance Level:	Structural: By Increase in occupant load: By change of major occupancy: Plumbing: Sewage-system:	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> 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 <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (explain) <div style="border: 1px solid black; height: 60px; margin-top: 5px;"></div> Increase in occupant load: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (explain) <div style="border: 1px solid black; height: 60px; margin-top: 5px;"></div>		11.4.3 11.4.3.2 11.4.3.3

		<div>Change of major occupancy: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (explain)</div> <div></div> <div>Plumbing: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (explain)</div> <div></div> <div>Sewage System: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (explain)</div> <div></div>	<div>11.4.3.4</div> <div>11.4.3.5</div> <div>11.4.3.6</div>
11.5	Compliance Alternatives Proposed:	<div><input checked="" type="checkbox"/> No</div> <div><input type="checkbox"/> Yes (give number(s)) _____</div>	11.5.1

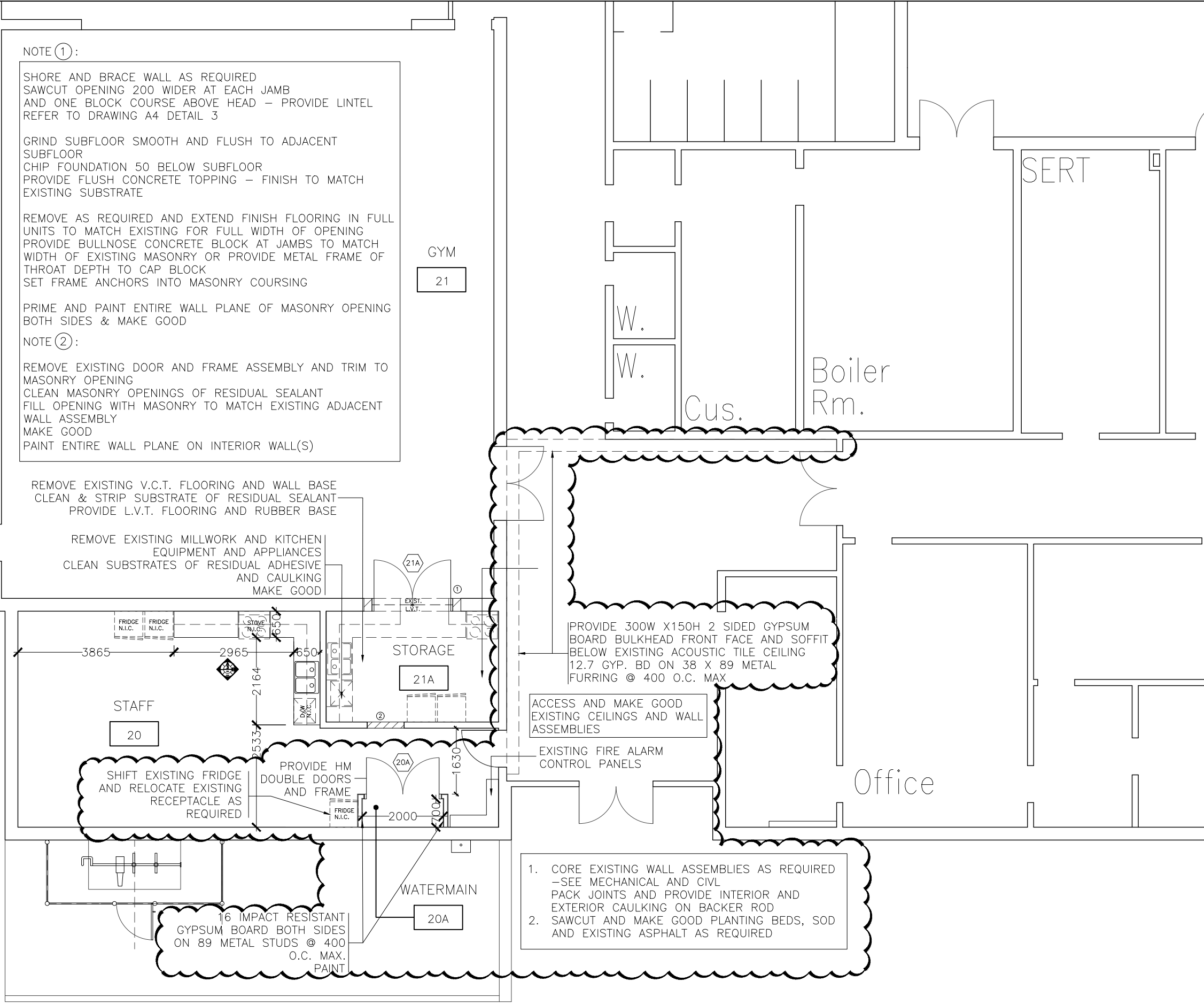
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ONTARIO

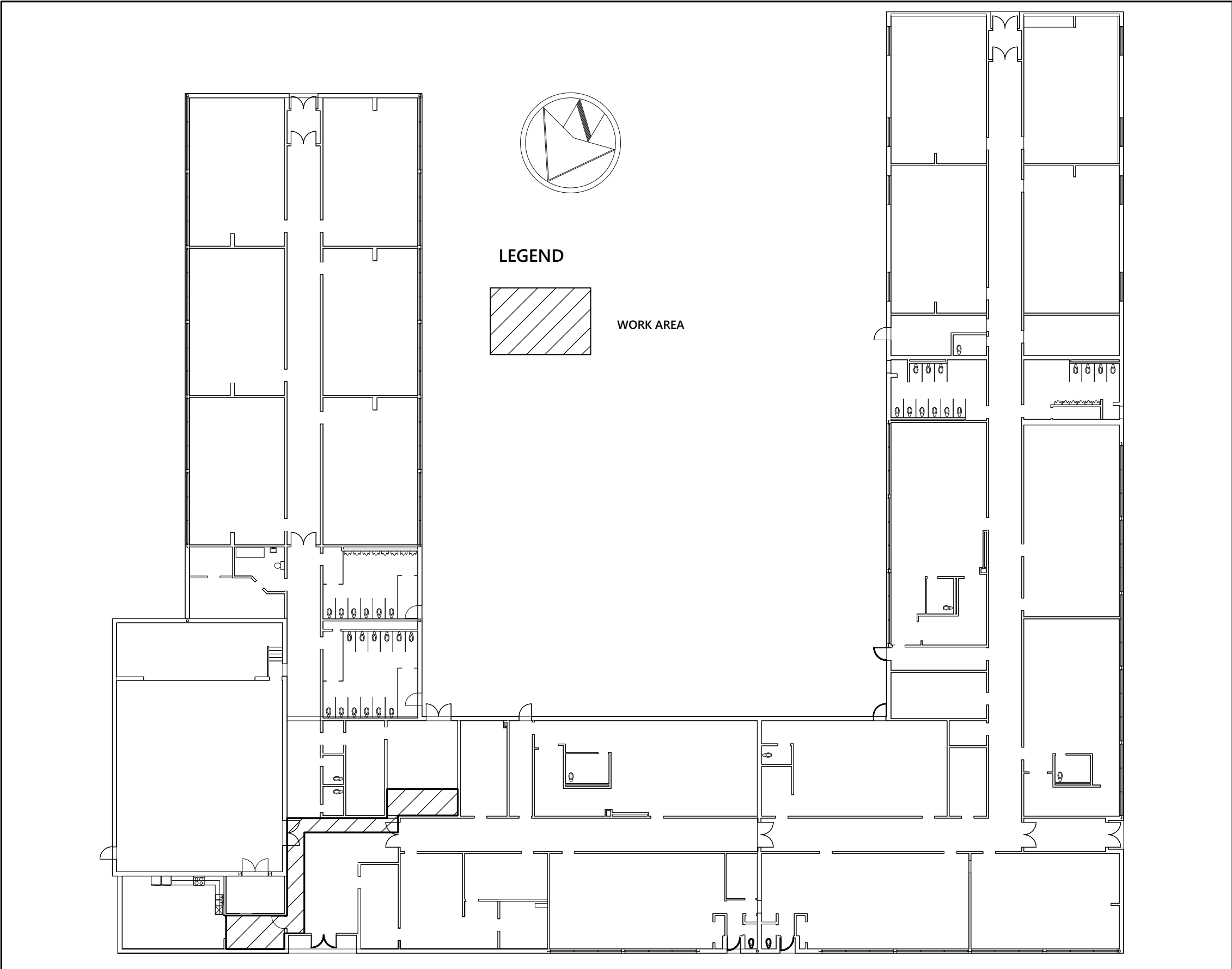


Unit 100 – 706 Euclid Avenue  
Toronto, Ontario, Canada M6G 2T9  
Tel:(416)591-6575 Fax:(416)591-1010

Title:  
ENLARGED  
WATERMAIN 20A  
PLAN

Date: MAY 8, 2024	Issued:
Drawn by: L.Z.	Scale: 1:100
Job No: 21153	Drawing: SK13





SCHOOL KEY PLAN – GROUND FLOOR  
SCALE: N.T.S.

1. DOMESTIC WATER PIPING–COPPER

PIPING: DOMESTIC COLD WATER PIPING, WITHIN BUILDING, COPPER TUBE, HARD DRAWN, TYPE L; TO ASTM B88M–85. ALL PIPING SHALL HAVE CERTIFICATION MARKINGS FOR COMPLIANCE WITH ASTM B88–83.  
FITTINGS: BRASS OR BRONZE FLANGES AND FLANGED FITTINGS; TO ANSI B16.24–1979. BRASS OR BRONZE THREADED FITTINGS: TO ANSI B16.15–1978. CAST BRONZE TO ANSI B16.18–1984 OR WROUGHT COPPER AND BRONZE TO ANSI B16.22–1980.  
GATE VALVES (USE ON ALL DCW PIPING INCLUDING BY-PASS): FLANGED: RISING STEM: TO MSS SP–70–1976, CLASS 125, 860 KPA, FF FLANGE, CAST–IRON BODY, OS&Y BRONZE TRIM. STANDARD OF ACCEPTANCE: JENKINS, CRANE, TOYO, KITZ.  
BALL VALVES (USE FOR EXPANSION TANK ISOLATION AND ITS DRAIN VALVE):  
SOLDERED: CLASS 125, 860KPA, BRONZE BODY, BRONZE BALL, WITH TEFLON SEAL. STANDARD OF ACCEPTANCE: TOYO, JENKINS, CRANE, KITZ.

2. BACK FLOW PREVENTER FIRE LINE

THE DOUBLE CHECK DETECTOR ASSEMBLY SHALL CONSIST OF TWO INDEPENDENT TRI–LINK CHECK MODULES WITHIN A SINGLE HOUSING, SLEEVE ACCESS PORT, FOUR TEST COCKS AND TWO DRIP TIGHT SHUTOFF VALVES. TRI–LINK CHECKS SHALL BE REMOVABLE AND SERVICEABLE, WITHOUT THE USE OF SPECIAL TOOLS. THE HOUSING SHALL BE CONSTRUCTED OF 304 SCHEDULE 40 STAINLESS STEEL PIPE WITH GROOVE END CONNECTIONS. TRI–LINK CHECKS SHALL HAVE REVERSIBLE ELASTOMER DISCS AND IN OPERATION SHALL PRODUCE DRIP TIGHT CLOSURE AGAINST REVERSE FLOW CAUSED BY BACKPRESSURE OR BACKSIPHONAGE. THE BYPASS ASSEMBLY SHALL CONSIST OF A METER, WHICH, REGISTERS IN EITHER GALLON OR CUBIC MEASUREMENT, A DOUBLE CHECK BACKFLOW ASSEMBLY AND REQUIRED TEST COCKS. ASSEMBLY SHALL BE A WATTS SERIES 757DCDA QST.

3. DCW PIPING INSULATION

CGSB 51–GP–9M, RIGID MINERAL FIBRE SLEEVING FOR PIPING WITH VAPOUR BARRIER JACKET. THICKNESS: 1". STANDARD OF ACCEPTANCE: FIBERGLAS 850, MANSON, KNAUF.

INSULATION FASTENING – TAPE: SELF ADHESIVE TAPE RATED UNDER 25 FOR FLAME SPREAD AND UNDER 50 FOR SMOKE DEVELOPMENT. LAP SEAL ADHESIVE: QUICK-SETTING ADHESIVE FOR JOINTS AND LAP SEALING OF VAPOUR BARRIERS. FLAME SPREAD 10 SMOKE DEVELOPMENT 0.

JACKETS – PVC OR CANVAS: APPLY IN ALL EXPOSED AREAS: COMPACT, FIRM ULC LISTED HEAVY PLAIN WEAVE, COTTON FABRIC AT 220 G/M2. ON CONCEALED VALVES AND FITTINGS USE ULC LISTED PLAIN WEAVE COTTON FABRIC AT 120 G/M2.

APPLICATION: APPLY INSULATION AFTER REQUIRED TESTS HAVE BEEN COMPLETED AND APPROVED BY THE CONSULTANT. INSULATION AND SURFACES SHALL BE CLEAN AND DRY WHEN INSTALLED AND DURING APPLICATION OF ANY FINISH. APPLY INSULATION AND COVERINGS ON HOT PIPING WHILE SURFACE IS BETWEEN 90 TO 120°F. PROTECT INSULATION WITH INSULATION SHIELDS CONSISTING OF HIGH DENSITY INSULATION AND SHEET STEEL SUPPORT. ALTERNATIVELY BURY PIPE HANGER IN INSULATION AND APPLY INSULATION UP HANGER ROD NOT LESS THAN 4 TIMES THE INSULATION THICKNESS.

4. FIRE PIPE AND FITTINGS

SHALL BE IN ACCORDANCE WITH NFPA 14 AND NFPA 13.THREADED OR FLANGED FITTINGS SHALL BE ANSI B 16.3 CAST IRON, CLASS 125 MINIMUM. THREADED FITTING ARE NOT PERMITTED ON PIPE WITH WALL THICKNESS LESS THAN SCHEDULE 40.

CLAMP–ON FITTINGS WITH RUBBER GASKETS SHALL BE LISTED FOR THE PIPING APPLICATION. PLAIN END PIPE, FITTINGS WITH LOCKING LUGS OR SHEAR BOLTS ARE NOT PERMITTED.

5. FIRE VALVES

DO NOT USE QUARTER TURN BALL VALVES FOR 50mm (2") OR LARGER DRAIN VALVES.

LISTED INDICATING VALVES:

- GATE: OS&Y, 1200KPA (175 PSIG) WOG.
- BUTTERFLY: GEAR OPERATED, INDICATING TYPE, 1200 KPA (175 PSIG) WOG.
- CHECK VALVES: SWING TYPE, RUBBER FACED OR WAFER TYPE SPRING LOADED BUTTERFLY CHECK VALVE, 1200 KPA (175 PSIG) WOG.
- DRAIN VALVES: THREADED BRONZE ANGLE, GLOBE, BALL OR BUTTERFLY, 1000 KPA (150 PSIG.) WOG EQUIPPED WITH REDUCER AND HOSE CONNECTION WITH CAP OR CONNECTED TO A DRAIN LINE.
- AUTOMATIC BALL DRIPS: CAST BRASS 19mm (3/4") IN–LINE AUTOMATIC BALL DRIP WITH BOTH ENDS THREADED WITH IRON PIPE THREADS.

STANDARD OF ACCEPTANCE: TYCO, WILSON AND COUSINS.

6. VALVE SUPERVISORY SWITCHES

PROVIDE EACH INDICATING STANDPIPE AND CONTROL VALVE WITH ADEQUATE MEANS FOR MOUNTING A VALVE SUPERVISORY SWITCH.

MOUNT SWITCH SO AS NOT TO INTERFERE WITH NORMAL OPERATION OF THE VALVE AND ADJUST TO OPERATE WITHIN TWO REVOLUTIONS TOWARD THE CLOSED POSITION OF THE VALVE CONTROL, OR WHEN THE STEM IS MOVED NO MORE THAN ONE FIFTH OF THE DISTANCE FROM ITS NORMAL POSITION.

THE MECHANISM SHALL BE CONTAINED IN A WEATHERPROOF DIE CAST ALUMINUM HOUSING, WHICH SHALL PROVIDE A 19mm (3/4") TAPPED CONDUIT ENTRANCE AND INCORPORATE THE NECESSARY FACILITIES FOR ATTACHMENT TO THE VALVES.

SWITCH HOUSING TO BE FINISHED IN RED BAKED ENAMEL.

VALVE SUPERVISORY SWITCHES FOR BALL AND BUTTERFLY VALVES: MAY BE INTEGRAL WITH THE VALVE.

ALL CONDUIT AND WIRING CONNECTED THERETO SHALL BE PROVIDED.

STANDARD OF ACCEPTANCE: TYCO.

DRAWING LIST

NO. DRAWING TITLE

M–1.3 LEGEND, KEY PLAN & NOTES – MECHANICAL

M–2.4 PART OF SCHOOL – EQUIPMENT & PIPING LAYOUT – EXISTING & DEMOLITION – MECHANICAL

M–3.4 PART OF SCHOOL – EQUIPMENT & PIPING LAYOUT – NEW WORK – MECHANICAL

GS–1 EROSION & SEDIMENT CONTROL PLAN

GS–1 GENERAL SERVICING PLAN

SYMBOLS

→	DOMESTIC COLD WATER SUPPLY
→	DOMESTIC HOT WATER SUPPLY
→ D →	SANITARY DRAIN
→ F →	FIRE LINE
→ M →	VALVE
→ H →	STRAINER
→ N →	CHECK VALVE
→ ei →	PIPE DOWN
→ o →	PIPE UP
NC	NORMALLY CLOSED
→ [BPPA] →	BACKFLOW PREVENTER ASSEMBLY
→ [DCVA] →	DOUBLE CHECK VALVE ASSEMBLY
→ M →	WATER METER
→ F/S →	FLOW SWITCH
→ PG →	PRESSURE GAUGE
CTE	CONNECT TO EXISTING
CUT	CUT POINT OF EXISTING SERVICE

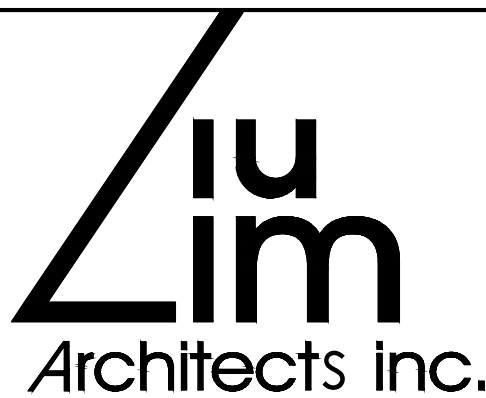
Revisions

Ref.	No.	Description	Date	Initial
△	6	ISSUED FOR CCN #6	2023/07/19	
△	2	75% REVIEW	2022/03/09	
△	3	100% REVIEW	2022/03/31	
△	4	ISSUED FOR TENDER	2022/04/26	
△	5	ISSUED FOR CCN #7	2024–04–28	



Project:

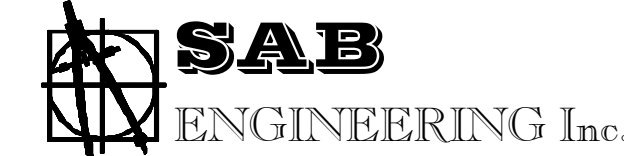
GLADYS SPEERS PS  
RENOVATIONS  
2150 SAMWAY RD, OAKVILLE,  
ON L6L 2P6



Unit 100 – 706 Euclid Avenue  
Toronto, Ontario, Canada M6G 2T9  
Tel:(416)591–6575 Fax:(416)591–1010



Consultant:

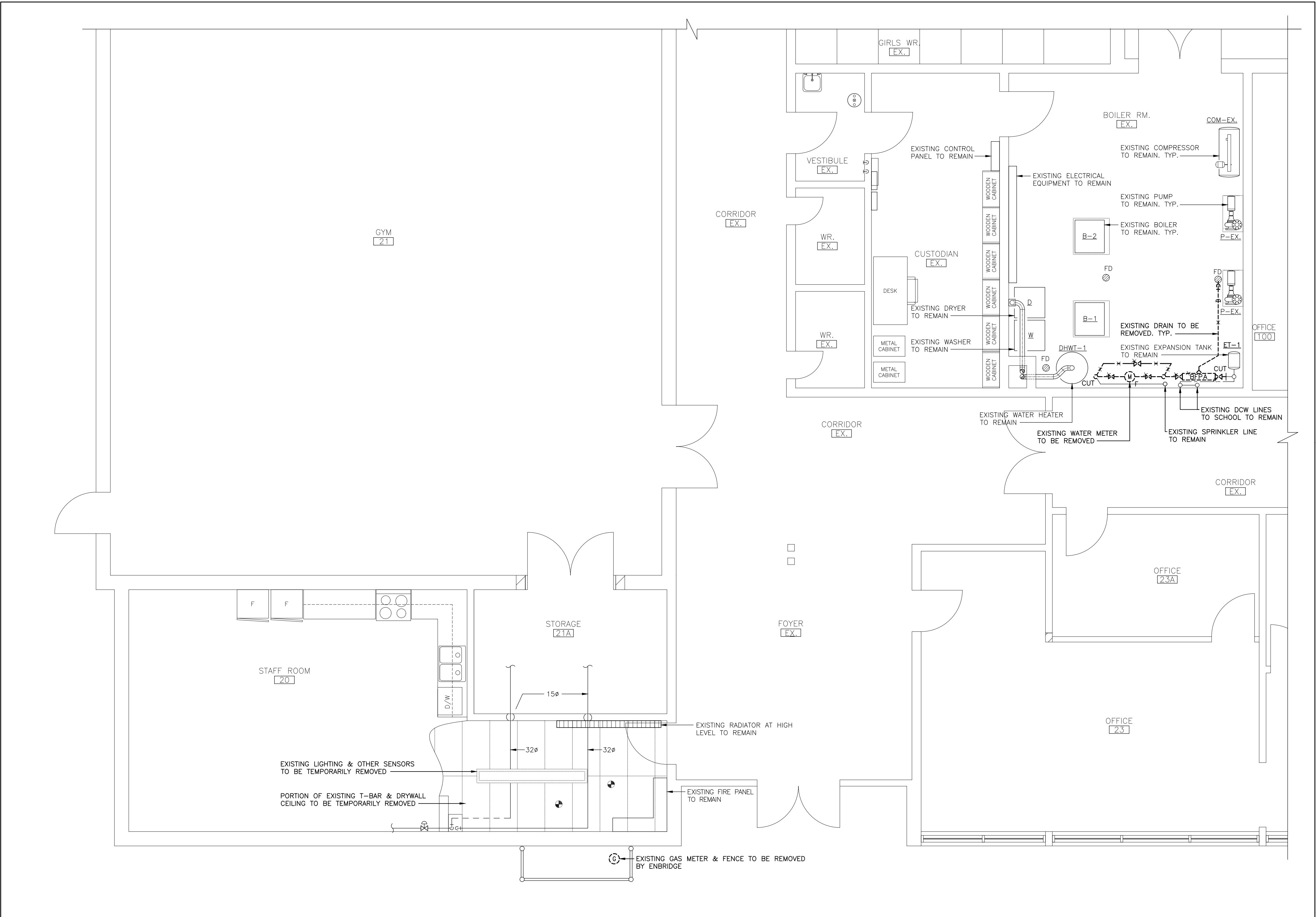


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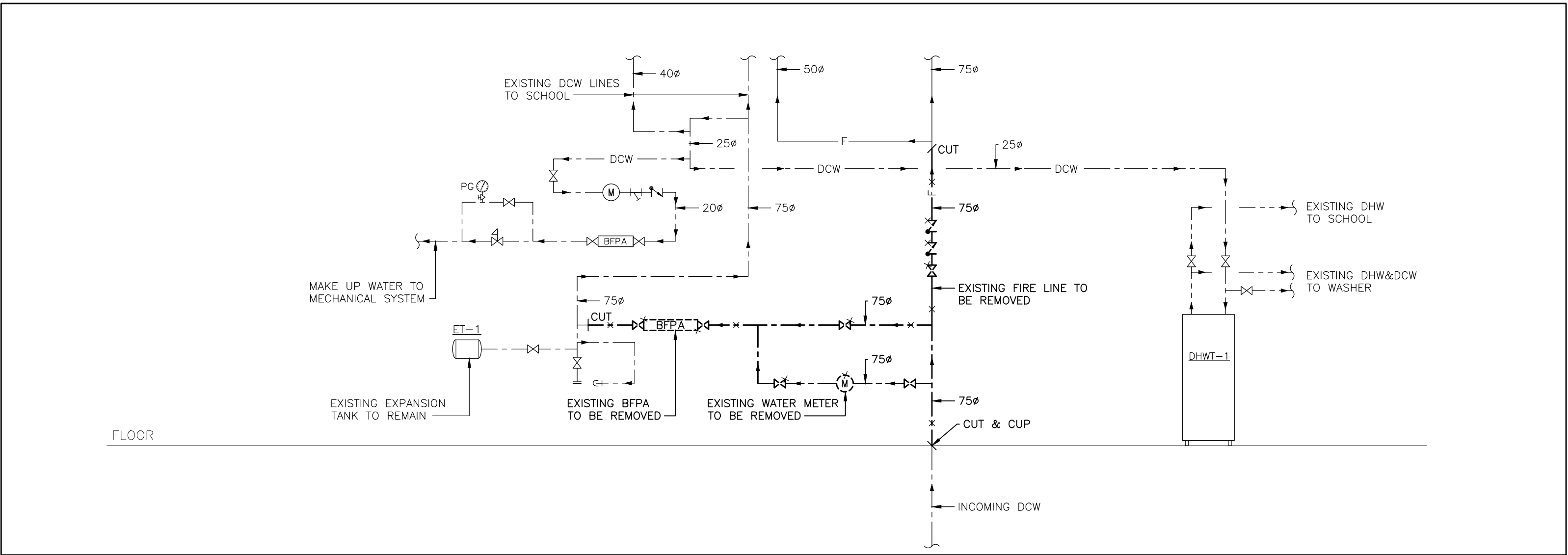
Title:

LEGEND, KEY PLAN & NOTES  
– MECHANICAL

Drawn by: P.C.	Date: JUNE 2023
Checked by: O.S.	Plotted:
Scale: AS SHOWN	Issued:
Job No.: 2022–01	Drawing No.: M-1.3
Set No.:	of: 3



PART OF GROUND FLOOR – EQUIPMENT & PIPING LAYOUT – EXISTING & DEMOLITION WORK – MECHANICAL  
SCALE: 1:50



PLUMBING PIPING LAYOUT – EXISTING & DEMOLITION WORK – MECHANICAL  
SCALE: N.T.S.

DEMOLITION NOTES:

PIPE SIZES AND ARRANGEMENT SHOWN ON THE DRAWINGS HAVE BEEN SITE MEASURED. MAKE ANY CHANGES REQUIRED TO SUIT THE ACTUAL SITE CONDITIONS AT NO COST TO THE OWNER.

REMOVE THE EXISTING WATER METER, BACKFLOW PREVENTER AND ASSOCIATED PIPES.

REMOVE THE FIRE LINE DOUBLE CHECK VALVE AND PORTION OF THE PIPE AS REQUIRED. TEMPORARY DISCONNECT DEVICES FROM THE FIRE ALARM TO ALLOW FOR THE INSTALLATION.

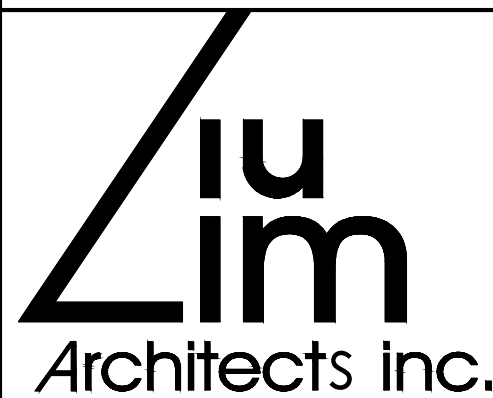
CAP EXISTING DCW LINE ABOVE THE FLOOR.

Revisions				
Ref.	No.	Description	Date	Initial
△	6	ISSUED FOR CCN #6	2023/07/19	
△	2	75% REVIEW	2022/03/09	
△	3	100% REVIEW	2022/03/31	
△	4	ISSUED FOR TENDER	2022/04/26	
△	5	ISSUED FOR CCN #7	2024-04-28	

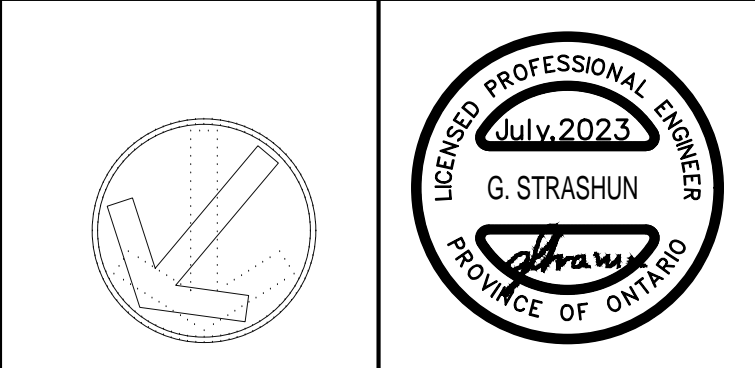


Project:

GLADYS SPEERS PS  
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Consultant:

**SAB**  
ENGINEERING Inc.

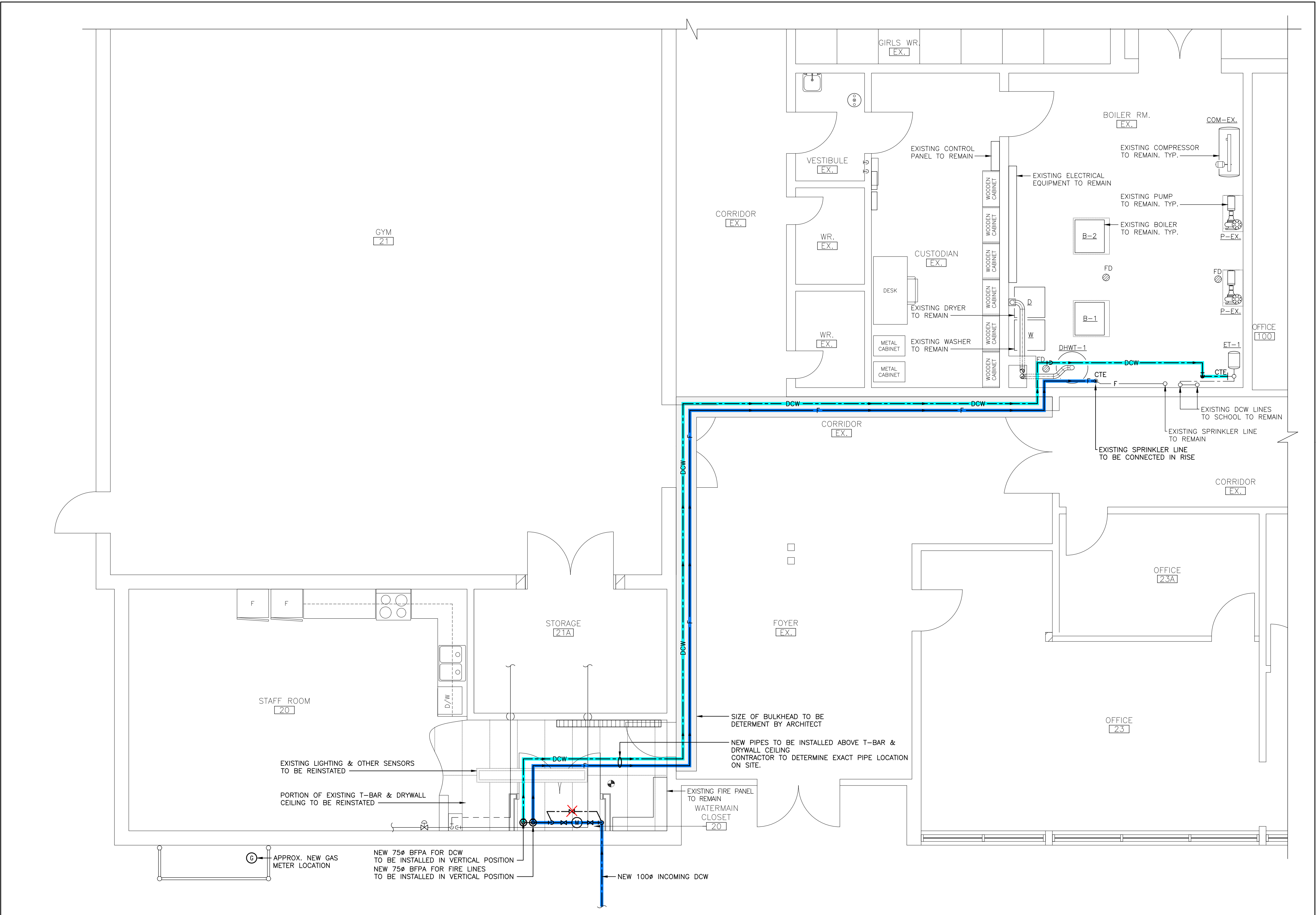
588 EDWARD AVE., UNIT 25, RICHMOND HILL, ONT., L4C 9Y6  
TEL. (905) 787 8885 FAX (905) 787 8771

Title:

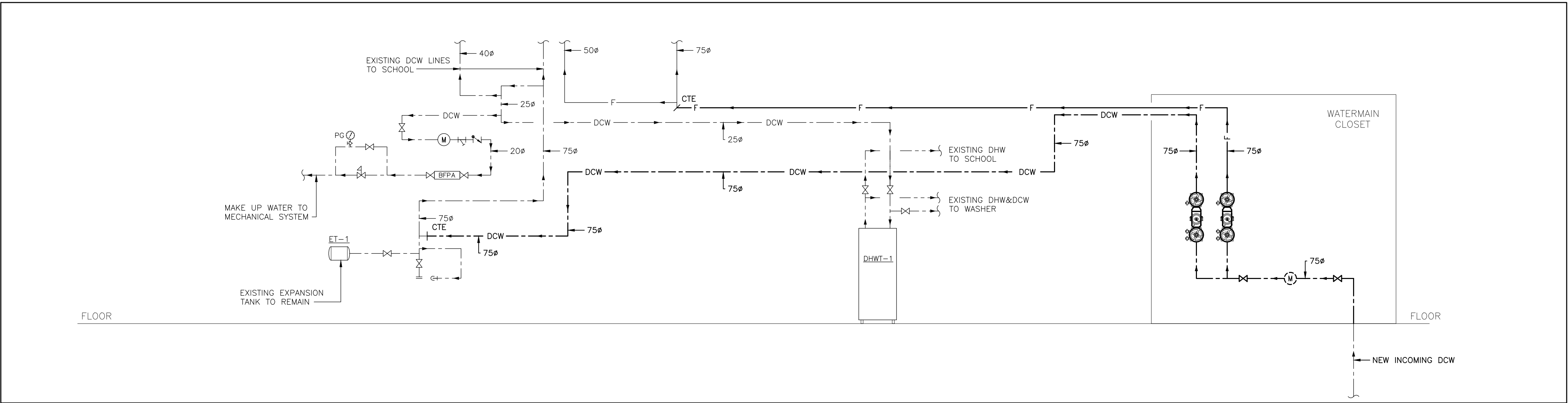
PART OF SCHOOL  
– EQUIPMENT & PIPING LAYOUT  
– EXISTING & DEMOLITION  
– MECHANICAL

Drawn by: P.C.	Date: JUNE 2023
Checked by: O.S.	Plotted:
Scale: AS SHOWN	Issued:
Job No.: 2022-01	Drawing No.: M-2.4
Set No.:	





PART OF GROUND FLOOR - EQUIPMENT & PIPING LAYOUT - NEW WORK - MECHANICAL  
SCALE: 1:50



PLUMBING PIPING LAYOUT - NEW WORK - MECHANICAL  
SCALE: N.T.S.

NEW WORK NOTES:

NEW BACKFLOW PREVENTER (BFP) TO MATCH PIPE SIZE. INSULATE NEW DCW PIPING IN THE MECHANICAL ROOM.

INSTALL NEW BFP BETWEEN 750 [30"] - 1500 [60"] A.F.F. ALLOW A MIN. OF 300 [12"] CLEAR SPACE ABOVE THE NEW BFP. INSTALL BFP TO MAINTAIN MIN. 750MM CLEARANCE IN FRONT. PROVIDE ADEQUATE SUPPORTS FOR ALL NEW PIPING AND BFP.

OFFSET PIPING AS NECESSARY IN ORDER TO MAINTAIN ALL REQUIRED CLEARANCES; COORDINATE INSTALLATION ON SITE; ALLOW FOR ANY ADDITIONAL OFFSETS AS PART OF THIS CONTRACT.

COORDINATE WATER SHUT-DOWN WITH SCHOOL REPRESENTATIVE.

PROVIDE GROUNDING TO THE NEW PIPING SYSTEM AS REQUIRED BY CODE.

PROVIDE A MICROBIOLOGY LAB TEST REPORT FOR THE NEW INCOMING DCW SERVICE.

PROVIDE BACKFLOW PREVENTION DEVICE TEST REPORTS FOR ALL NEW BACKFLOW PREVENTERS.

LOCATIONS OF NEW PIPING AND EQUIPMENT ARE APPROXIMATE. COORDINATE THE LOCATION OF EQUIPMENT AND NEW PIPE INSTALLATION WITH EXISTING SERVICES IN ORDER TO AVOID INTERFERENCE; MAKE ALL NECESSARY ADJUSTMENTS AS PART OF THIS CONTRACT.

ALLOW FOR FIRE ALARM VERIFICATION OF THE NEW AND EXISTING DEVICES LOCATED IN THE MECHANICAL ROOM IN ACCORDANCE WITH AUTHORITIES HAVING JURISDICTION AND FIRE DEPARTMENT.

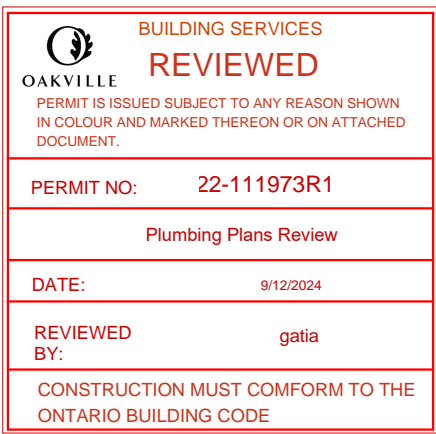
PROVIDE ALL THE DIGGING (INDOOR AND OUTDOOR) AND CUTTING OF THE SLAB AS REQUIRED FOR THE CAPPING OF THE EXISTING PIPE AND INSTALLATION OF THE NEW ONE. PRIOR TO ANY CUTTING OR DIGGING, CONTRACTOR SHALL SCAN/ X-RAY AS REQUIRED TO IDENTIFY LOCATION OF ALL EXISTING UNDERGROUND SERVICES. REFER TO SPECIFICATIONS FOR ADDITIONAL DETAILS.

PROVIDE SHORING AS REQUIRED FOR THE TRENCH. THE SHORING SYSTEM SHALL BE DESIGNED AND APPROVED BY A STRUCTURAL ENGINEER.

REPAIR THE FLOOR TO MATCH EXISTING AT THE COMPLETION OF THE INSTALLATION.

COORDINATE LOCATION OF THE DCW AND FIRE LINE CONNECTION OUTSIDE THE BUILDING WITH THE CIVIL ENGINEER. TEMPORARY RELOCATE THE EXISTING GAS METER AND ASSOCIATED ENCLOSURE AS REQUIRED TO ALLOW FOR THE INSTALLATION OF THE NEW UNDERGROUND DCW PIPE. COORDINATE WITH CONSUMER GAS AND PAY FOR ALL THE REQUIRED APPROVALS AND WORK.

REINSTATE ALL THE FINISHES OUTSIDE OF THE BUILDING INCLUDING ASPHALT, PAVING, GRASS AFFECTED BY THE WORK.



Issuance of the Building Permit does not constitute Fire Department Approval of all aspects of design and installation. Plans Review acceptance is based on a General Review of Fire Safety Systems design. A Fire Final Inspection is required for Fire Department Approval.

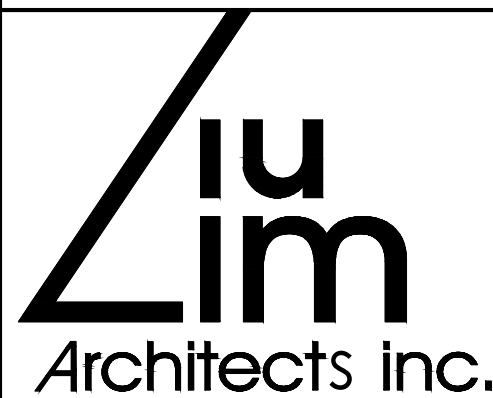
REVIEWED BY OAKVILLE  
FIRE DEPARTMENT

FINAL INSPECTION  
REQUIRED BY OAKVILLE  
FIRE DEPARTMENT

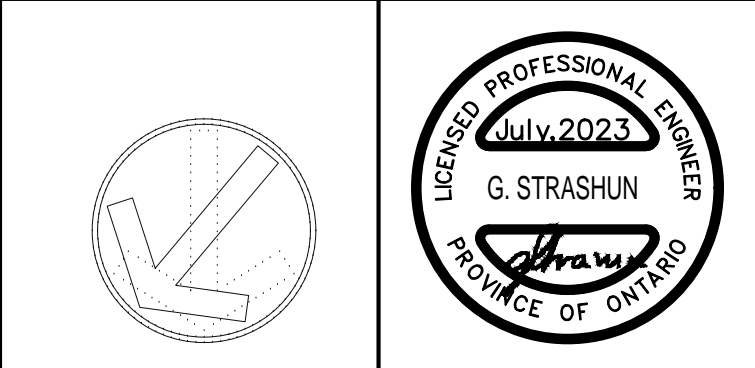
Revisions				
Ref.	No.	Description	Date	Initial
△	6	ISSUED FOR CCN #6	2023/07/19	
△	2	75% REVIEW	2022/03/09	
△	3	100% REVIEW	2022/03/31	
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△	5	ISSUED FOR CCN #7	2024-04-28	



Project:  
GLADYS SPEERS PS  
RENOVATIONS  
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TEL. (905)-787 8885 FAX (905)-787 8771

Title:  
PART OF SCHOOL  
- EQUIPMENT & PIPING LAYOUT  
- NEW WORK  
- MECHANICAL

Drawn by: P.C.	Date: JUNE 2023
Checked by: O.S.	Plotted:
Scale: AS SHOWN	Issued:
Job No.: 2022-01	Drawing No.: M-3.4
Set No.:	

RECEIVED

BUILDING SERVICES

PERMIT NO: 22-111973 REV 01

DATE: 08/16/2024



TOWN OF OAKVILLE



BUILDING SERVICES

REVIEWED

PERMIT IS ISSUED SUBJECT TO ANY REASON SHOWN  
IN COLOUR AND MARKED THEREON OR ON ATTACHED  
DOCUMENT.

PERMIT NO: 22-111973R1

Mechanical Plans Review

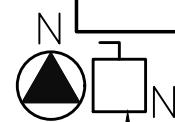
DATE: 9/12/2024

REVIEWED BY: gatia

CONSTRUCTION MUST COMFORM TO THE  
ONTARIO BUILDING CODE



LOCAL DISCONNECT ABOVE  
CEILING FOR AC-2



AC-2

EXISTING DISTRIBUTION  
PANEL 'A'

PROVIDE NEW REMOTE  
CONTROLLER FOR NEW  
EVAPORATORS. CONTROLLER TO  
BE MOUNTED ON WALL C/W  
LOCKED ENCLOSURE

STAGE



Issued for CCN-9	Designed by M.V.	Checked by O.C.	Job No. 2022-01	Date 04/22/2024	Scale 1:50
 SAB ENGINEERING Inc. 588 EDWARD AVE., UNIT 25, RICHMOND HILL, ONT., L4C 9Y6 TEL. (905)-787 8885 FAX (905)-787 8771		Job Name GLADYS SPEERS PS - HVAC UPGRADES			SKETCH #
Drawing Name GR. FLR - EQUIPMENT LAYOUT - NEW WORK - ELECTRICAL				REF. DWG. E-3.1	SKE-3.1-8A

RECEIVED

BUILDING SERVICES

PERMIT NO: 22-111973.REV.01

DATE: 08/16/2024



TOWN OF OAKVILLE



BUILDING SERVICES

REVIEWED

PERMIT IS ISSUED SUBJECT TO ANY REASON SHOWN  
IN COLOUR AND MARKED THEREON OR ON ATTACHED  
DOCUMENT.

PERMIT NO: 22-111973R1

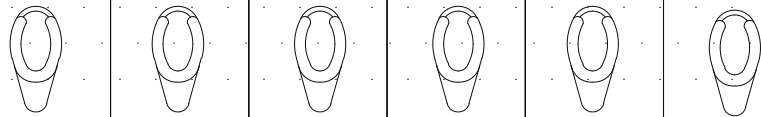
Mechanical Plans Review

DATE: 9/12/2024

REVIEWED BY: gatia

CONSTRUCTION MUST COMFORM TO THE  
ONTARIO BUILDING CODE

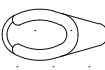
GIRLS WR.



8

PROVIDE NEW  
REMOTE  
CONTROLLER FOR  
NEW EVAPORATORS.  
CONTROLLER TO BE  
MOUNTED ON WALL  
C/W LOCKED  
ENCLOSURE

WR.



WR.



AC-3

CUSTODIAN



LOCAL DISCONNECT FOR  
AC-3

NEW DISTRIBUTION PANEL 'DP-1'  
SEE DWG E-3.2 FOR  
MORE DETAILS

BOILER RM.

EX.

LOCATION FOR NEW  
SUBPANEL DH-1

OFFICE  
100

H TO BE RE-USED

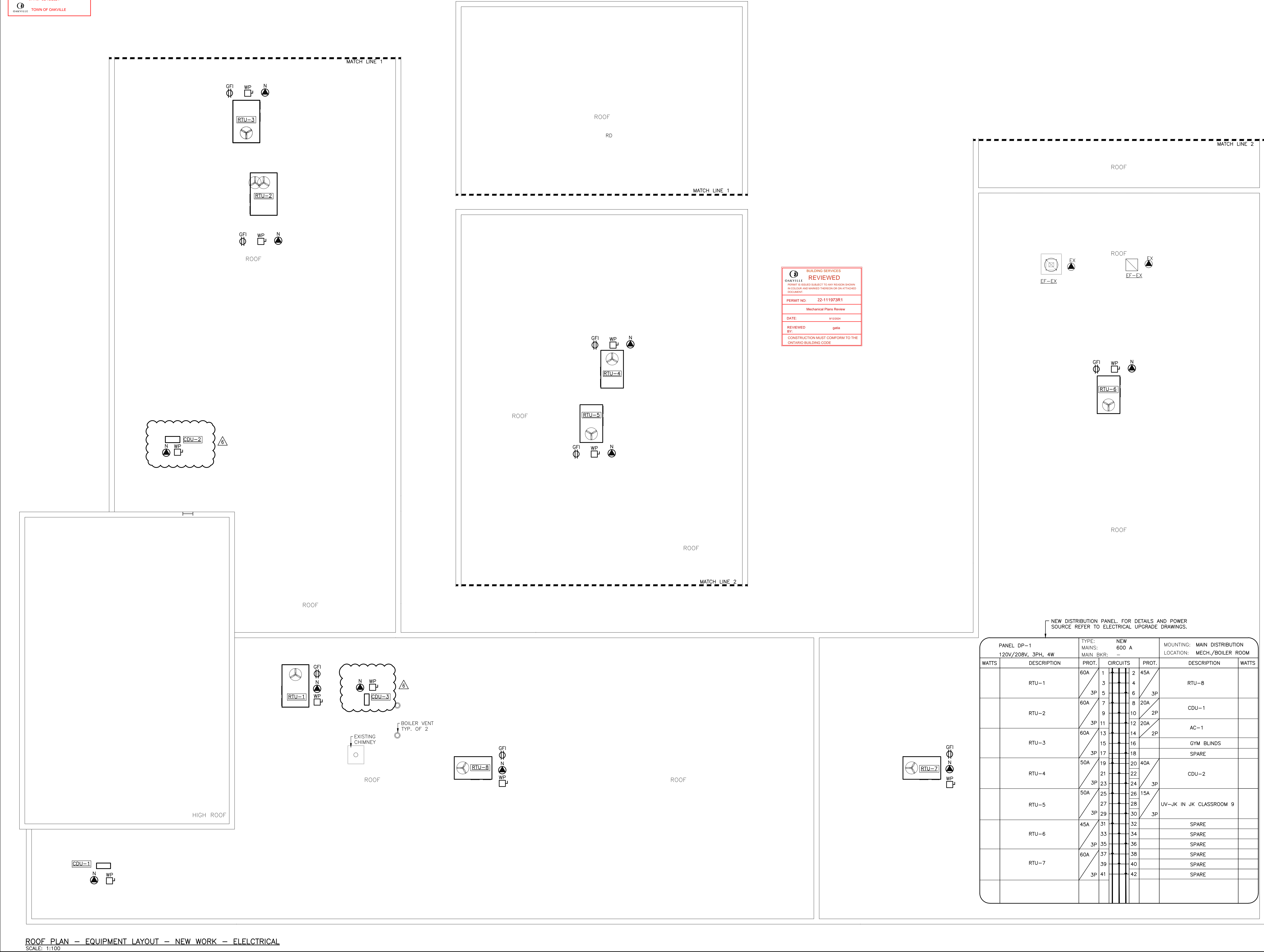
CORRIDOR

RE-INSTALL E  
IN NEW LOCAT  
SHOWN. RE-C  
EXISTING SWIT



Issued for CCN-9	Designed by M.V.	Checked by O.C.	Job No. 2022-01	Date 04/22/2024	Scale 1:50
588 EDWARD AVE., UNIT 25, RICHMOND HILL, ONT., L4C 9Y6 TEL. (905)-787-8885 FAX (905)-787-8771					
Job Name GLADYS SPEERS PS - HVAC UPGRADES				SKETCH #	
Drawing Name GR. FLR - EQUIPMENT LAYOUT - NEW WORK - ELECTRICAL				REF. DWG. E-3.1	SKE-3.1-8B





Revisions

Ref.	No.	Description	Date	Initial
△	1	50% REVIEW	2022/02/17	
△	2	75% REVIEW	2022/03/09	
△	3	100% REVIEW	2022/03/31	
△	4	ISSUED FOR TENDER	2022/04/26	
△	5	ISSUED FOR CCN #5	2022/05/26	
△	6	ISSUED FOR CCN #9	2024/04/24	

Project:

GLADYS SPEERS PS RENOVATIONS  
2150 SAMWAY RD, OAKVILLE, ON L6L 2P6



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588 EDWARD AVE., UNIT 25, RICHMOND HILL, ONT., L4C 9Y6  
TEL. (905)-787 8885 FAX (905)-787 8771

Title:

ROOF — EQUIPMENT LAYOUT  
— NEW WORK — ELECTRICAL

Drawn by: P.C.

Date: DECEMBER 2021

Checked by: O.S.

Plotted:

Scale: AS SHOWN

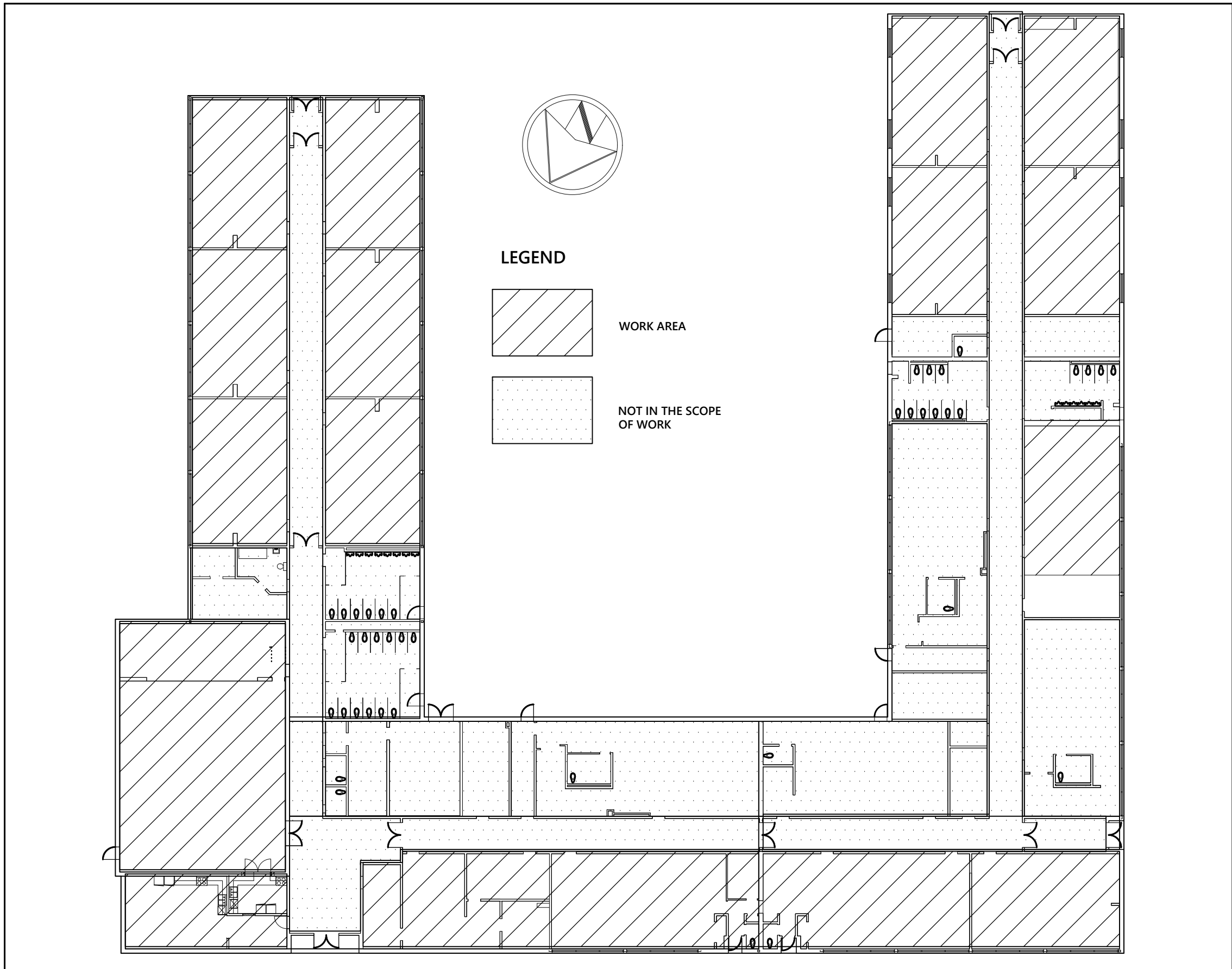
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Job No.: 2022-01

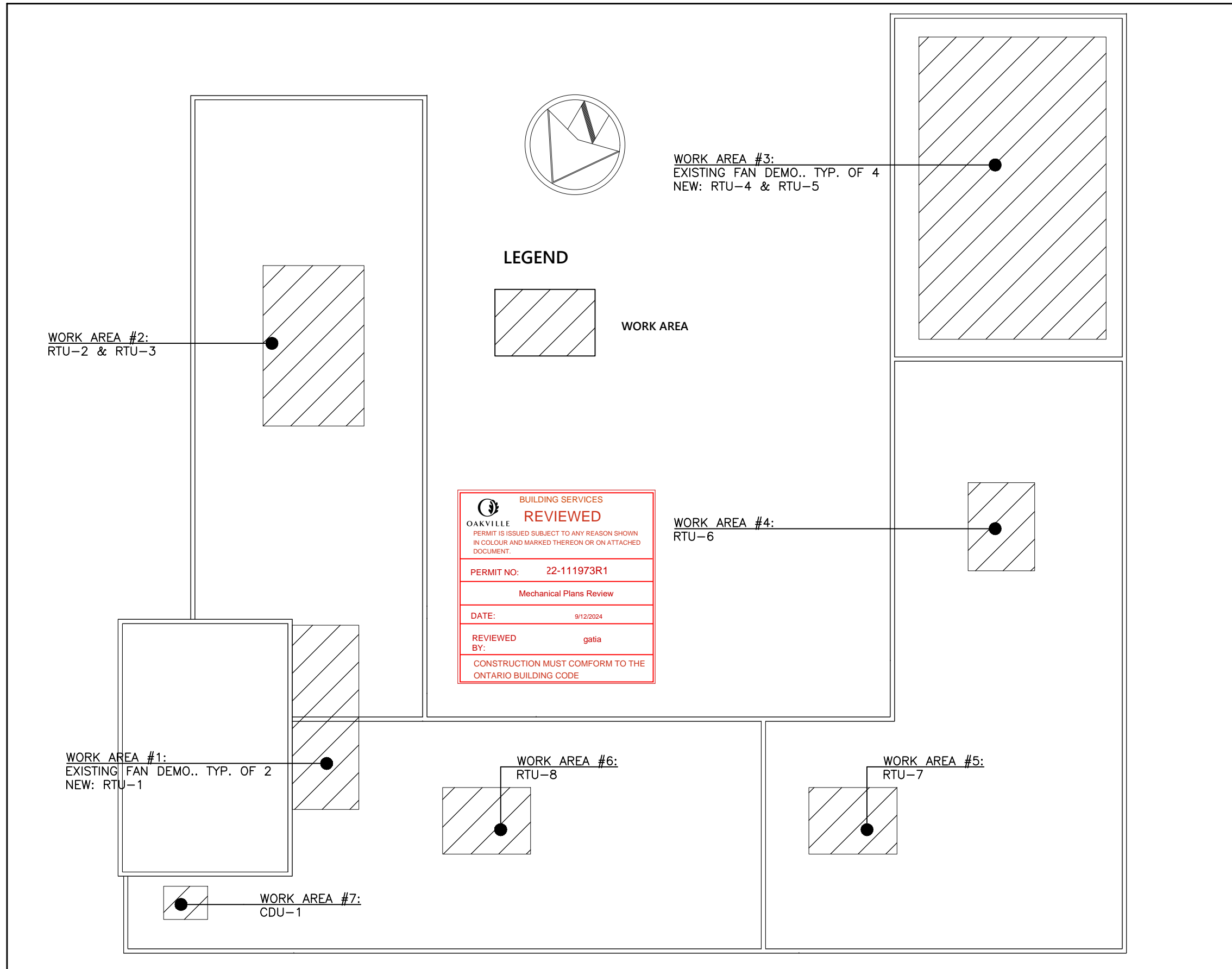
Drawing No.: E-3.2

Set No.:

of: 5



SCHOOL KEY PLAN - GROUND FLOOR  
SCALE: 1:400



SCHOOL KEY PLAN - ROOF  
SCALE: 1:400

SCHEDULE OF ROOFTOP UNIT															
TAG	SUPPLY AIR FLOW CFM	SUPPLY E.S.P. Pa [in. wg]	SUPPLY FAN HP	HEATING CAPACITY		MIN. OUTDOOR AIR (CFM)	DX COOLING PERFORMANCE				UNIT POWER			UNIT WEIGHT KG [LBS]	REMARKS
				INPUT kW [MBH]	OUTPUT kW [MBH]		TOTAL CAP. KW [MBH]	SENS. CAP. KW [MBH]	TEMP °C [°F]	VOLTAGE	AMPS (MCA)	MOCP (A)			
													EDBT/EWBT		
RTU-1	4,000	249 [1.0]	2.75	73.3 [250]	58.6 [200]	1,500	33.4 [114]	27.5 [94]	26.7/19.4 [80/67]	14.5/14.2 [58.2/57.6]	208/3/60	48	60	730 [1,608]	
RTU-2	4,000	375 [1.5]	2.75	73.3 [250]	58.6 [200]	1,500	33.4 [114]	27.5 [94]	26.7/19.4 [80/67]	14.5/14.2 [58.2/57.6]	208/3/60	48	60	730 [1,608]	
RTU-3	4,000	375 [1.5]	2.75	73.3 [250]	58.6 [200]	1,500	33.4 [114]	27.5 [94]	26.7/19.4 [80/67]	14.5/14.2 [58.2/57.6]	208/3/60	48	60	730 [1,608]	
RTU-4	2,400	375 [1.5]	2.75	44.0 [150]	35.6 [122]	1,000	21.6 [74]	17.2 [59]	26.7/19.4 [80/67]	14.1/14.1 [57.3/57.1]	208/3/60	37	50	639 [1,408]	
RTU-5	2,400	375 [1.5]	2.75	44.0 [150]	35.6 [122]	1,000	21.6 [74]	17.2 [59]	26.7/19.4 [80/67]	14.1/14.1 [57.3/57.1]	208/3/60	37	50	639 [1,408]	
RTU-6	2,000	125 [0.5]	1.00	38.1 [130]	30.5 [104]	550	17.8 [61]	13.5 [46]	26.7/19.4 [80/67]	14.5/14.2 [58.2/57.6]	208/3/60	30.0	45	450 [992]	
RTU-7	4,000	375 [1.5]	2.75	73.3 [250]	58.6 [200]	1,500	33.4 [114]	27.5 [94]	26.7/19.4 [80/67]	14.5/14.2 [58.2/57.6]	208/3/60	48	60	730 [1,608]	
RTU-8	2,000	125 [0.5]	1.00	38.1 [130]	30.5 [104]	150	17.8 [61]	13.5 [46]	26.7/19.4 [80/67]	14.5/14.2 [58.2/57.6]	208/3/60	30.0	45	450 [992]	

NOTE: CLG: AIR EDBT/EWBT 78°F/66°F, LDBT/LWBT 55.9/55.2°F;

SCHEDULE OF VAV COILS										
TAG	SERVING	MAX. AIR FLOW L/S (CFM)	MIN. AIR FLOW L/S (CFM)	MIN. PRES. DIFFERENT. (PA)	INLET SIZE DIA. (MM)	OUTLET SIZE (MM)	DIMENSIONS LxHxD MM(IN)	REMARKS		
VAV-2-1	CLASSROOM 01	567 (1,200)	400 (850)	2.5	250	350x300	390x340x305 [15.5x13.5x12]	C/W MINIMUM 900MM SOUND ATTENUATOR		
VAV-2-2	CLASSROOM 02	567 (1,200)	400 (850)	2.5	250	350x300	390x340x305 [15.5x13.5x12]	C/W MINIMUM 900MM SOUND ATTENUATOR		
VAV-2-3	CLASSROOM 03	755 (1,600)	520 (1100)	2.5	300	425x350	470x390x330 [18.5x15.5x13]	C/W MINIMUM 900MM SOUND ATTENUATOR		
VAV-3-1	CLASSROOM 04	755 (1,600)	520 (1100)	2.5	300	425x350	470x390x330 [18.5x15.5x13]	C/W MINIMUM 900MM SOUND ATTENUATOR		
VAV-3-2	CLASSROOM 05	567 (1,200)	400 (850)	2.5	250	350x300	390x340x305 [15.5x13.5x12]	C/W MINIMUM 900MM SOUND ATTENUATOR		
VAV-3-3	CLASSROOM 06	567 (1,200)	400 (850)	2.5	250	350x300	390x340x305 [15.5x13.5x12]	C/W MINIMUM 900MM SOUND ATTENUATOR		
VAV-4-1	CLASSROOM 13	567 (1,200)	400 (850)	2.5	250	350x300	390x340x305 [15.5x13.5x12]	C/W MINIMUM 900MM SOUND ATTENUATOR		
VAV-4-2	CLASSROOM 12	567 (1,200)	400 (850)	2.5	250	350x300	390x340x305 [15.5x13.5x12]	C/W MINIMUM 900MM SOUND ATTENUATOR		
VAV-5-1	CLASSROOM 14	567 (1,200)	400 (850)	2.5	250	350x300	390x340x305 [15.5x13.5x12]	C/W MINIMUM 900MM SOUND ATTENUATOR		
VAV-5-2	CLASSROOM 15	567 (1,200)	400 (850)	2.5	250	350x300	390x340x305 [15.5x13.5x12]	C/W MINIMUM 900MM SOUND ATTENUATOR		
VAV-7-1	CLASSROOM 17	567 (1,200)	400 (850)	2.5	250	350x300	390x340x305 [15.5x13.5x12]	C/W MINIMUM 900MM SOUND ATTENUATOR		
VAV-7-2	CLASSROOM 18	661 (1,400)	450 (950)	2.5	250	350x300	390x340x305 [15.5x13.5x12]	C/W MINIMUM 900MM SOUND ATTENUATOR		
VAV-7-3	CLASSROOM 19	661 (1,400)	450 (950)	2.5	250	350x300	390x340x305 [15.5x13.5x12]	C/W MINIMUM 900MM SOUND ATTENUATOR		

SCHEDULE OF OUTDOOR CONDENSERS										
TAG	MANUFACTURER	MODEL	COOLING CAP. TONS [MBH]	REFRIGERANT	CONNECTION SIZES RL (MM/IN) RG (MM/IN)	EQUIPMENT SIZE (HxLxW, MM)	POWER SUPPLY (V/PH/MCA)	MOCP	WEIGHT KG [LB]	REMARKS
CU-1	MITSUBISHI	MDT-GE24MA	2.0 [24]	R410A	9.5 [3/8] 18 [3/4]	875x840x330	230/1/60	20	54 [119]	C/W ECOFOOT SNOW STAND
CU-3	DAIKIN	RXS24LVJU	2.0 [24]	R410A	6.35 [1/4] 15.9 [5/8]	762x889x305	208-230/1/60	20	72.0 [159]	C/W ECOFOOT SNOW STAND, WORKS WITH AC-2
CU-4	DAIKIN	RK12BXVJU	1.0 [12]	R410A	6.35 [1/4] 9.5 [3/8]	550x673x284	208-230/1/60	15	27.2 [60]	C/W ECOFOOT SNOW STAND, WORKS WITH AC-3
NOTE:										

SCHEDULE OF INDOOR A/C UNITS													
TAG	TYPE	MANUFACTURER	MODEL	CLG. CAP. (TONS/KW)	AIR FLOW (CFM)	POWER SUPPLY (V/PH/Hz)	MCA (A)	MOCP (A)	WEIGHT KG [LB]	EQUIPMENT SIZE (HxLxW, MM)	REFRIG. PIPE (MM) LIQUID GAS	DRAIN (MM)	REMARKS
AC-1	WALL MOUNTED	MITSUBISHI	MSY-GE24MA	2.0/7.3	368-736	230/1/60	1.0	20	18.8 [41]	330x1115x240	9.5 18	32	COOLING ONLY; C/W CONDENSATE PUMP
AC-2	WALL MOUNTED	DAIKIN	FTK24BXVJURK	2.0/7.3	350-643	208/1/60	1.0	15	14 [31]	340x11049x248	6.35 15.9	15.9	COOLING ONLY; C/W CONDENSATE PUMP
AC-3	WALL MOUNTED	DAIKIN	FTK12BXVJURK	1/3.5	132-473	208/1/60	1.0	15	9.7 [21.4]	288x1785x250	6.35 9.5	15.9	COOLING ONLY; C/W CONDENSATE PUMP
NOTE: COMPLETE WITH WIRED MA REMOTE CONTROLLERS, AND ADAPTER OR CENTRAL CONTROLLER FOR INTERFACE WITH EXISTING BUILDING AUTOMATION SYSTEM													

SCHEDULE OF GRILLES & DIFFUSERS						
TYPE	SERVICE	MANUFACTURER	MODEL	VOLUME CONTROL	FINISH	REMARKS
A	SUPPLY	E.H. PRICE	SDG	YES	B12	SPIRAL DUCT GRILLES
B	RETURN	E.H. PRICE	BOECRG	NO	B12	EGG CRATE RETURN GRILLE
C	SUPPLY	E.H. PRICE	SCD	YES	B12	SQUARE CONE DIFFUSER
D	SUPPLY	E.H. PRICE	RCD	NO	B12	ROUND CONE DIFFUSER
E	RETURN	E.H. PRICE	95	NO	B12	LOUVERED RETURN GRILLE

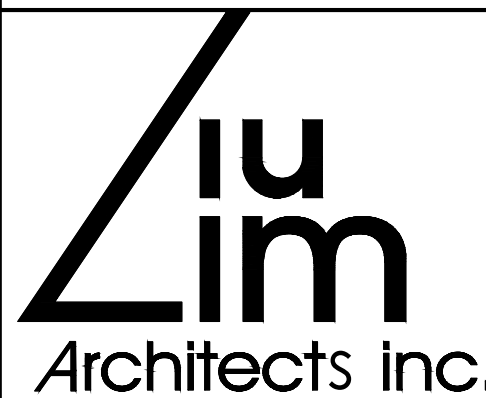
SCHEDULE OF CONVECTOR									
TAG	MANUFACTURER	MODEL	HEATING OUTPUT (BTU/FT)	HEATING AGENT		TUBE DIAM (IN)	FIN SIZE (IN)	FIN SPACING (FINS/FT)	REMARKS
				SUPPLY (°F)	RETURN (°F)				
RAD-1	ENGINEERED AIR	3 ROWS (12" CENTERS)	3,010	82 [180]	71 [160]	1 1⁄2"	4" x 4"	50/FT	WALL MOUNTED/WITHOUT ENCLOSURE
RAD-2	ENGINEERED AIR	3 ROWS (12" CENTERS)	3,010	82 [180]	71 [160]	1 1⁄2"	4" x 4"	50/FT	WALL MOUNTED/WITHOUT ENCLOSURE
RAD-3	ENGINEERED AIR	3 ROWS (12" CENTERS)	3,010	82 [180]	71 [160]	1 1⁄2"	4" x 4"	50/FT	WALL MOUNTED/WITHOUT ENCLOSURE
RAD-4	ENGINEERED AIR	3 ROWS (12" CENTERS)	3,010	82 [180]	71 [160]	1 1⁄2"	4" x 4"	50/FT	WALL MOUNTED/WITHOUT ENCLOSURE
RAD-5	ENGINEERED AIR	3 ROWS (12" CENTERS)	3,010	82 [180]	71 [160]	1 1⁄2"	4" x 4"	50/FT	WALL MOUNTED/WITHOUT ENCLOSURE
RAD-6	ENGINEERED AIR	3 ROWS (12" CENTERS)	3,010	82 [180]	71 [160]	1 1⁄2"	4" x 4"	50/FT	WALL MOUNTED/WITHOUT ENCLOSURE
RAD-16A	ENGINEERED AIR	3 ROWS (12" CENTERS)	3,010	82 [180]	71 [160]	1 1⁄2"	4" x 4"	50/FT	WALL MOUNTED/WITHOUT ENCLOSURE
RAD-17	ENGINEERED AIR	1 ROW	1,060	82 [180]	71 [160]	1 1⁄2"	4" x 4"	50/FT	WALL MOUNTED/WITHOUT ENCLOSURE
RAD-18	ENGINEERED AIR	1 ROW	1,060	82 [180]	71 [160]	1 1⁄2"	4" x 4"	50/FT	WALL MOUNTED/WITHOUT ENCLOSURE
RAD-19	ENGINEERED AIR	3 ROWS (12" CENTERS)	3,010	82 [180]	71 [160]	1 1⁄2"	4" x 4"	50/FT	WALL MOUNTED/WITHOUT ENCLOSURE

SYMBOLS LIST	
SYMBOL	DESCRIPTION
	SHEET METAL DUCT - FIRST FIGURE INDICATES DIMENSION SHOWN
	SHEET METAL RISER UP - SUPPLY
	SHEET METAL RISER DOWN - RETURN AND EXHAUST
	SHEET METAL RISER DOWN - SUPPLY
	SHEET METAL RISER DOWN - RETURN AND EXHAUST
	FUSIBLE LINK FIRE DAMPER WITH ACCESS DOOR IN DUCT
	MOTORIZED DAMPER
	VOLUME DAMPER
	SUPPLY AIR GRILLE
	EXHAUST OR RECIRC. GRILLE
	FLEXIBLE CONNECTION
	OPEN ENDED DUCT WITH 'BALANCING' DAMPER AND BELLMOUTH INLET
	ACCESS DOOR
	UNIT HEATER
	ROOM THERMOSTAT
	UNION
	MANUAL AIR VENT
	AUTOMATIC CONTROL VALVE - TWO WAY
	MIXING OR DIVERTER VALVE (3-WAY)
	VALVE
	BALANCING VALVE
	CHECK VALVE
	STRAINER - OVER 50mm PROVIDE WITH VALVED FLUSHING DRAIN
	PIPE TURNING DOWN
	PIPE TURNING UP
	PIPE REDUCER
	PLUMBING TRAP
	THERMOMETER
	PRESSURE GAUGE
	SMOKE SENSOR
	FLOOR DRAIN
	FUNNEL FLOOR DRAIN
	ROOF DRAIN
	RAIN WATER LEADER
	HOSE BIBB
	VENT THROUGH ROOF
	HEATING WATER SUPPLY
	HEATING WATER RETURN
	DOMESTIC COLD WATER PIPE
	DOMESTIC HOT WATER PIPE
	CONNECT TO EXISTING
	CUT POINT OF EXISTING SERVICE
	COMPLETE WITH
	EXHAUST FAN
	EXISTING TO REMAIN
	TO BE RELOCATED
	VARIABLE FREQUENCY DRIVE
	PERIMETER CONVECTOR
	PERIMETER CONVECTOR TYPE CV-1, FINNED ELEMENT LENGTH 2,200 MM, HEATING OUTPUT 2,000 W
	DENOTES: SUPPLY AIR, RETURN AIR, OUTSIDE AIR, EXHAUST AIR

Revisions				
Ref.	No.	Description	Date	Initial
△	1	50% REVIEW	2022/02/17	
△	2	75% REVIEW	2022/03/09	
△	3	100% REVIEW	2022/03/31	
△	4	ISSUED FOR TENDER	2022/04/26	
△	5	ISSUED FOR CCN #5	2022/05/26	
△	6	ISSUED FOR CCN #9	2024/05/07	



Project:  
GLADYS SPEERS PS  
RENOVATIONS  
2150 SAMWAY RD, OAKVILLE,  
ON L6L 2P6



Unit 100 - 706 Euclid Avenue  
Toronto, Ontario, Canada M6G 2T9  
Tel:(416)591-6575 Fax:(416)591-1010

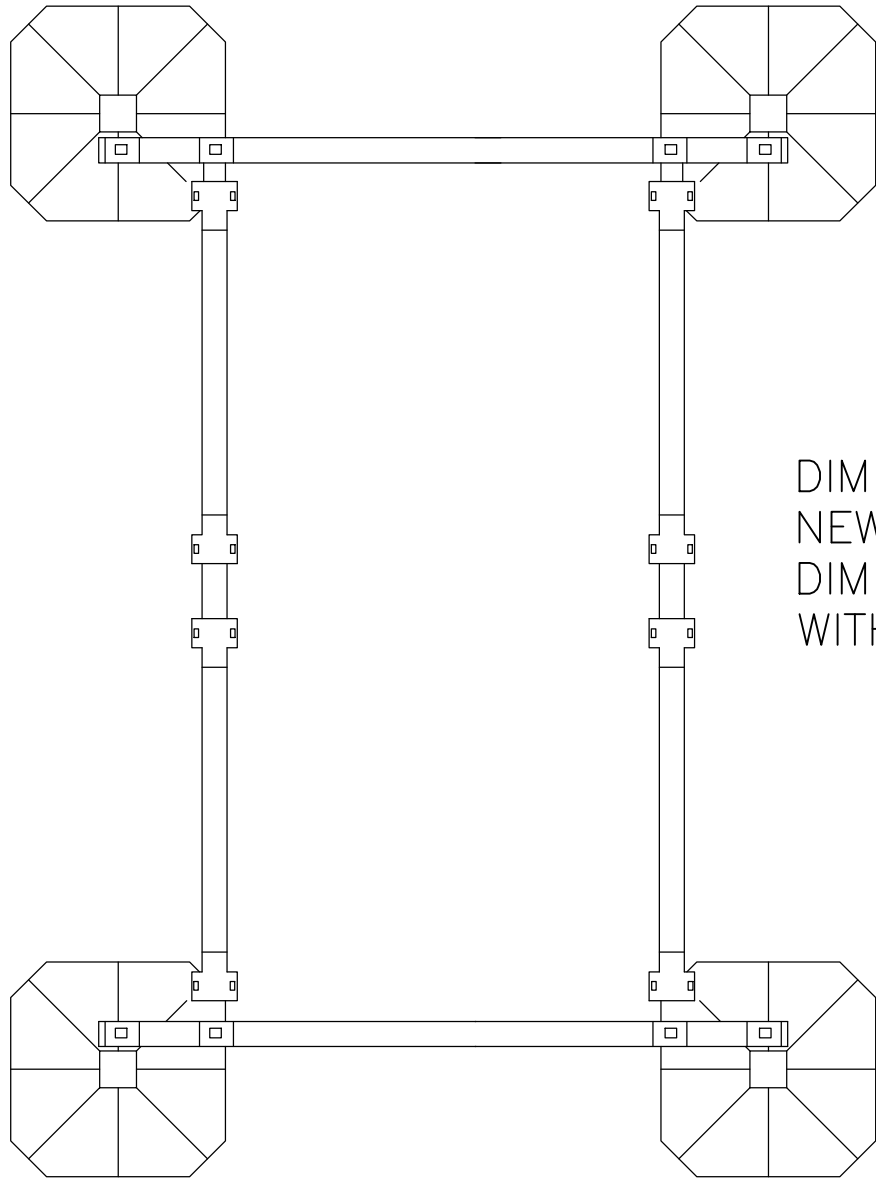


Consultant:  
**SAB**  
ENGINEERING Inc.  
588 EDWARD AVE., UNIT 25, RICHMOND HILL, ONT., L4C 9Y6  
TEL. (905)-787 8885 FAX (905)-787 8771

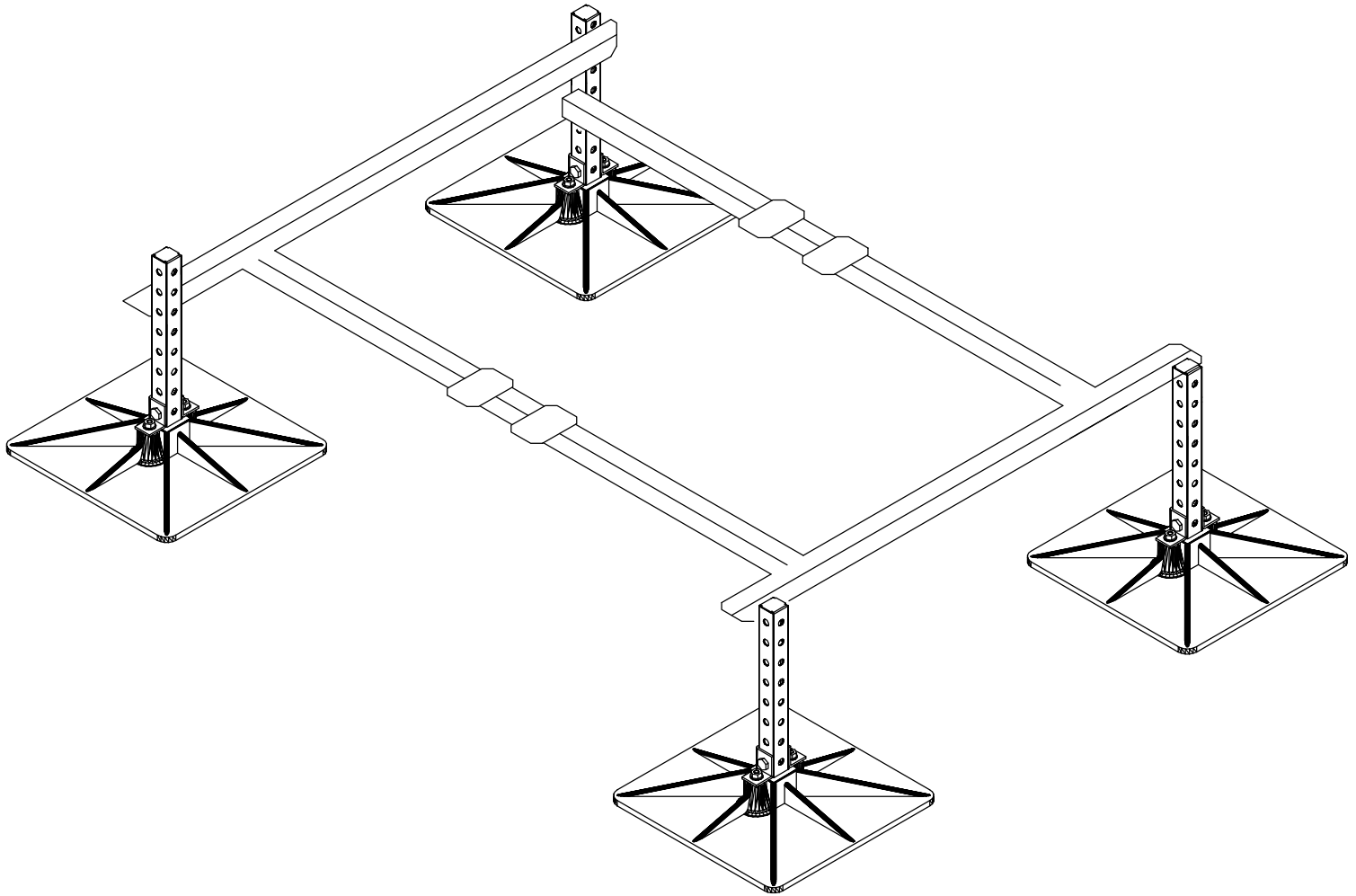
Title:  
SYMBOL LIST, EQUIPMENT  
SCHEDULE, KEY PLANS & NOTES  
- MECHANICAL

Drawn by:  
P.C.  
Date:  
DECEMBER 2021  
Checked by:  
O.S.  
Plotted:  
Scale:  
AS SHOWN  
Issued:  
Job No.:  
2022-01  
Drawing No.:  
M-1.1  
Set No.:  
of: 10






DIMENSIONS TO SUIT  
NEW CONDENSER  
DIMENSION, COORDINATE  
WITH MANUFACTURER



BIG FOOT FRAMEWORK  
N.T.S.

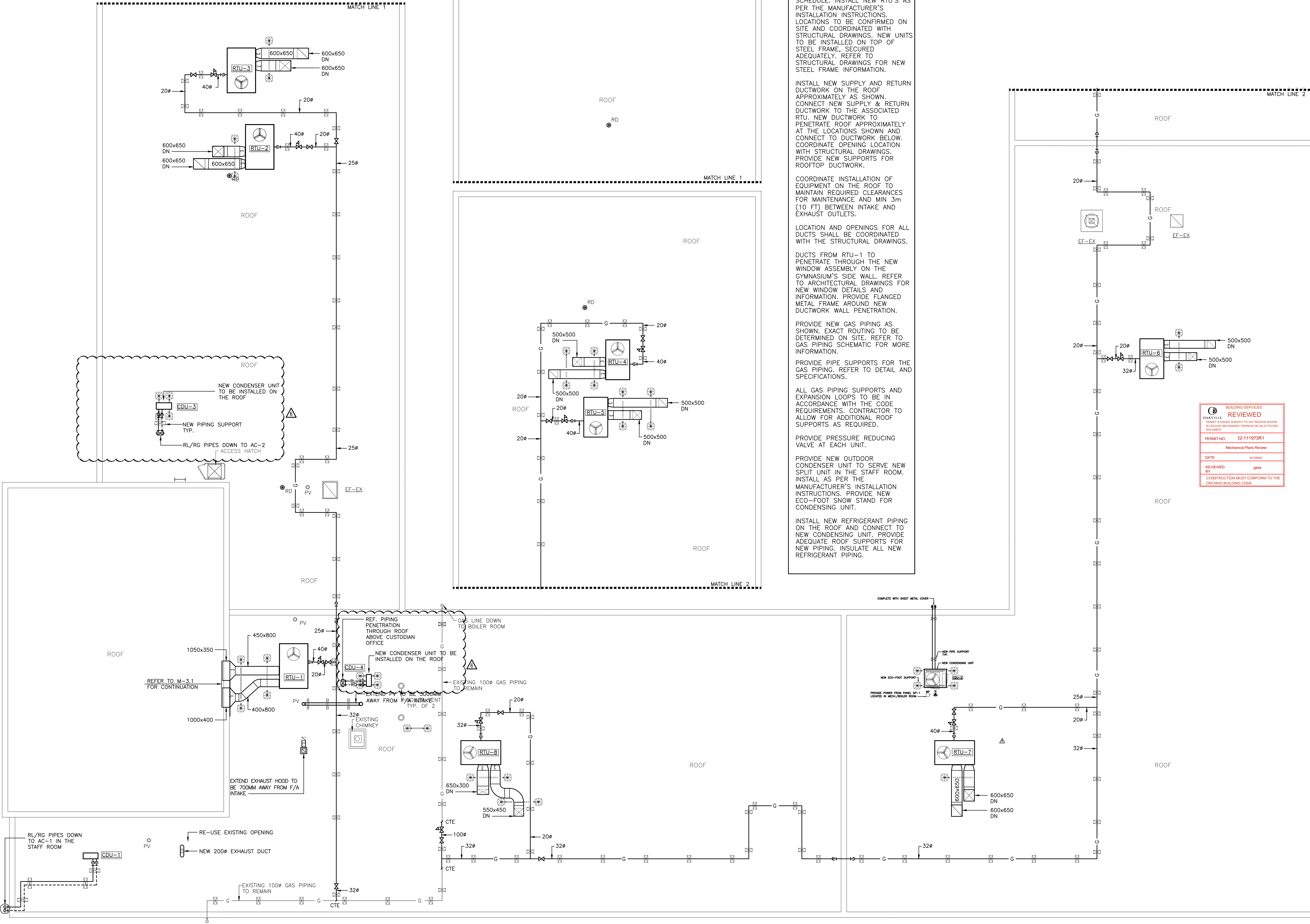
MAX HEIGHT 395mm  
MIN HEIGHT 290mm

Issued for CCN-9	Designed by M.V.	Checked by O.S	Job No. 2022-01	Date 2024-04-22	Scale 1:50
 <small>588 EDWARD AVE., UNIT 25, RICHMOND HILL, ONT., L4C 9Y6 TEL. (905)-787 8885 FAX (905)-787 8771</small>	Job Name GLADYS SPEERS PS - HVAC UPGRADES			SKETCH #	
	Drawing Name SCHEDULE & DETAILS - MECHANICAL			REF. DWG. M-1.2	SKM-1.2-1









**NEW WORK NOTES:**

PROVIDE NEW ROOFTOP UNITS AS PER THE MECHANICAL EQUIPMENT SCHEDULE. INSTALL NEW RTU'S AS PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. LOCATIONS TO BE CONFIRMED ON SITE AND COORDINATED WITH STRUCTURAL DRAWINGS. NEW UNITS TO BE INSTALLED ON TOP OF STEEL FRAME, SECURED ADEQUATELY. REFER TO STRUCTURAL DRAWINGS FOR NEW STEEL FRAME INFORMATION.

INSTALL NEW SUPPLY AND RETURN DUCTWORK ON THE ROOF APPROXIMATELY AS SHOWN. CONNECT NEW SUPPLY & RETURN DUCTWORK TO THE ASSOCIATED RTU. NEW DUCTWORK TO PENETRATE ROOF APPROXIMATELY AT THE LOCATIONS SHOWN AND CONNECT TO DUCTWORK BELOW. COORDINATE OPENING LOCATION WITH STRUCTURAL DRAWINGS. PROVIDE NEW SUPPORTS FOR ROOFTOP DUCTWORK.

COORDINATE INSTALLATION OF EQUIPMENT ON THE ROOF TO MAINTAIN REQUIRED CLEARANCES FOR MAINTENANCE AND MIN 3m (10 FT) BETWEEN INTAKE AND EXHAUST OUTLETS.

LOCATION AND OPENINGS FOR ALL DUCTS SHALL BE COORDINATED WITH THE STRUCTURAL DRAWINGS.

DUCTS FROM RTU-1 TO PENETRATE THROUGH THE NEW WINDOW ASSEMBLY ON THE GYMNASIUM'S SIDE WALL. REFER TO ARCHITECTURAL DRAWINGS FOR NEW WINDOW DETAILS AND INFORMATION. PROVIDE FLANGED METAL FRAME AROUND NEW DUCTWORK WALL PENETRATION.

PROVIDE NEW GAS PIPING AS SHOWN. EXACT ROUTING TO BE DETERMINED ON SITE. REFER TO GAS PIPING SCHEMATIC FOR MORE INFORMATION.

PROVIDE PIPE SUPPORTS FOR THE GAS PIPING. REFER TO DETAIL AND SPECIFICATIONS.

ALL GAS PIPING SUPPORTS AND EXPANSION LOOPS TO BE IN ACCORDANCE WITH THE CODE REQUIREMENTS. CONTRACTOR TO ALLOW FOR ADDITIONAL ROOF SUPPORTS AS REQUIRED.

PROVIDE PRESSURE REDUCING VALVE AT EACH UNIT.

PROVIDE NEW OUTDOOR CONDENSER UNIT TO SERVE NEW SPLIT UNIT IN THE STAFF ROOM. INSTALL AS PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE NEW ECO-FOOT SNOW STAND FOR CONDENSING UNIT.

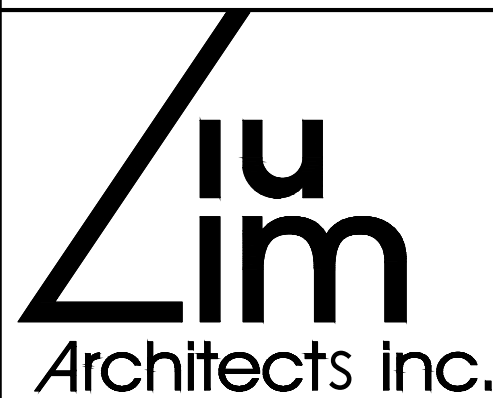
INSTALL NEW REFRIGERANT PIPING ON THE ROOF AND CONNECT TO NEW CONDENSING UNIT. PROVIDE ADEQUATE ROOF SUPPORTS FOR NEW PIPING. INSULATE ALL NEW REFRIGERANT PIPING.

**REVIEWED**  
BUILDING SERVICES  
PERMIT NO. 22-11973R1  
DATE: 8/18/2024  
REVIEWED BY: gms  
CONSTRUCTION MUST CONFORM TO THE ONTARIO BUILDING CODE

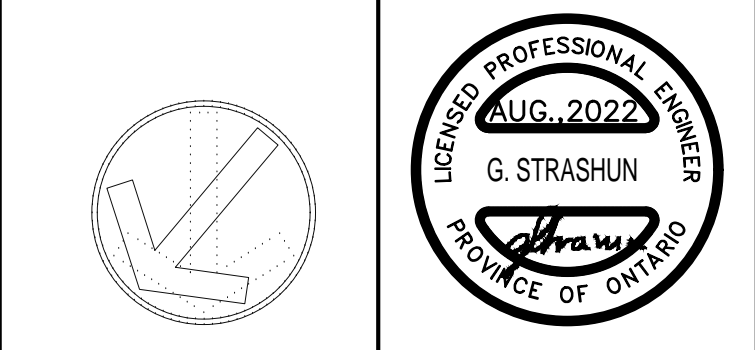
Revisions				
Ref.	No.	Description	Date	Initial
△	1	50% REVIEW	2022/02/17	
△	2	75% REVIEW	2022/03/09	
△	3	100% REVIEW	2022/03/31	
△	4	ISSUED FOR TENDER	2022/04/26	
△	5	ISSUED FOR CCN-3	2023/04/04	
△	6	ISSUED FOR CCN-9	2024-05-07	

**RECEIVED**  
BUILDING SERVICES  
PERMIT NO. 22-11973 REV 01  
DATE: 08/18/2024  
OAKVILLE TOWN OF OAKVILLE

**Project:**  
GLADYS SPEERS PS  
RENOVATIONS  
2150 SAMWAY RD, OAKVILLE,  
ON L6L 2P6



Unit 100 – 706 Euclid Avenue  
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**Consultant:**  
**SAB ENGINEERING Inc.**  
588 EDWARD AVE., UNIT 25, RICHMOND HILL, ONT., L4C 9Y6  
TEL. (905)-787 8885 FAX (905)-787 8771

**Title:**  
ROOF – EQUIPMENT LAYOUT – EXISTING  
& NEW WORK – MECHANICAL

Drawn by: P.C.	Date: DECEMBER 2021
Checked by: O.S.	Plotted:
Scale: AS SHOWN	Issued:
Job No.: 2022-01	Drawing No.: <b>M-3.3</b>
Set No.:	

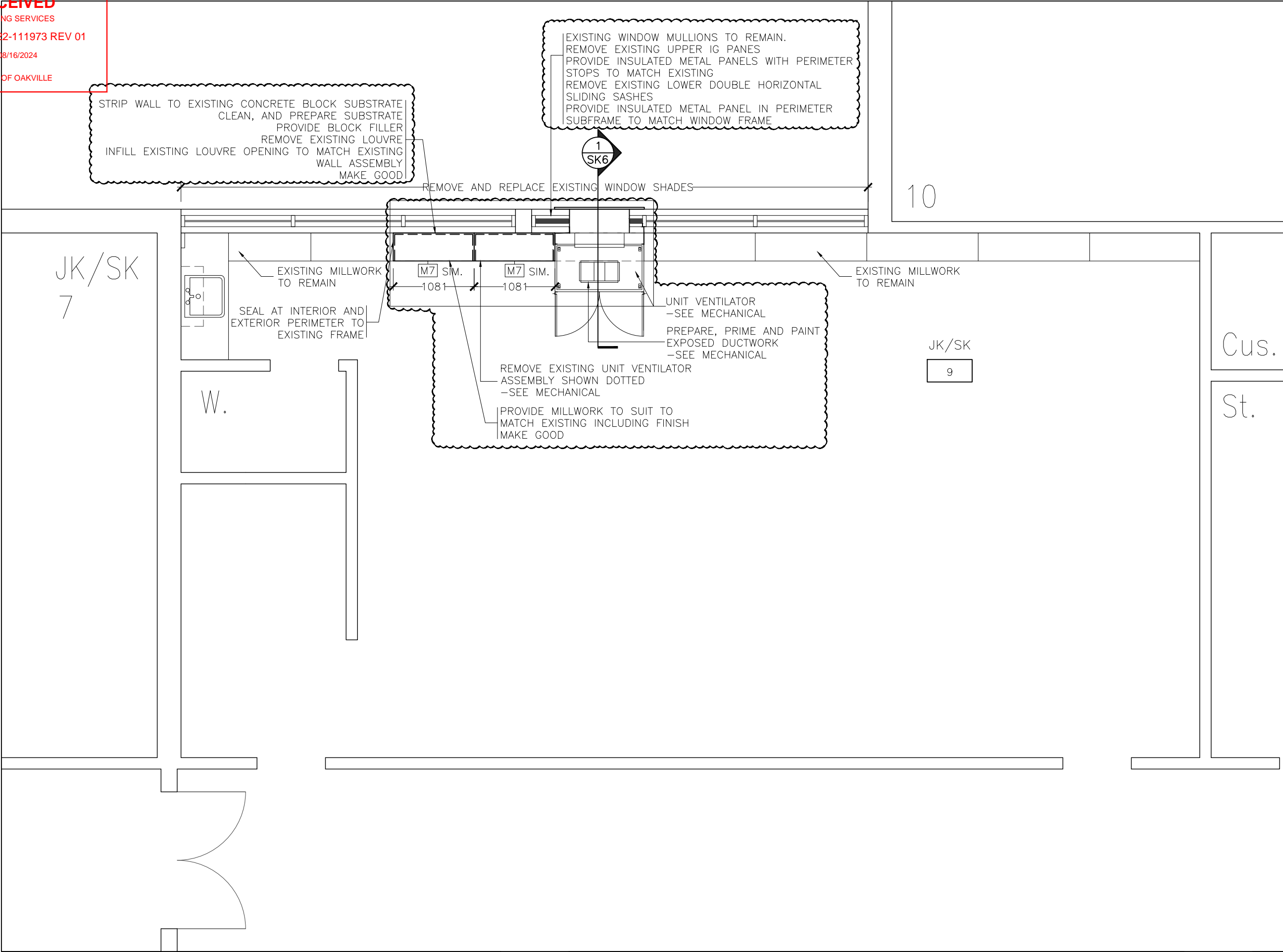
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BUILDING SERVICES

PERMIT NO: 22-111973 REV 01

DATE: 08/16/2024

TOWN OF OAKVILLE





GLADYS SPEERS PUBLIC  
SCHOOL RENOVATIONS  
2150 SAMWAY RD,  
OAKVILLE  
ONTARIO



Unit 100 – 706 Euclid Avenue  
Toronto, Ontario, Canada M6G 2T9  
Tel:(416)591-6575 Fax:(416)591-1010

Title:  
ENLARGED  
JK/SK 9 PLAN

Date: JUL. 09, 2024	Issued:
Drawn by: L.Z.	Scale: 1:50
Job No: 21153	Drawing: SK5

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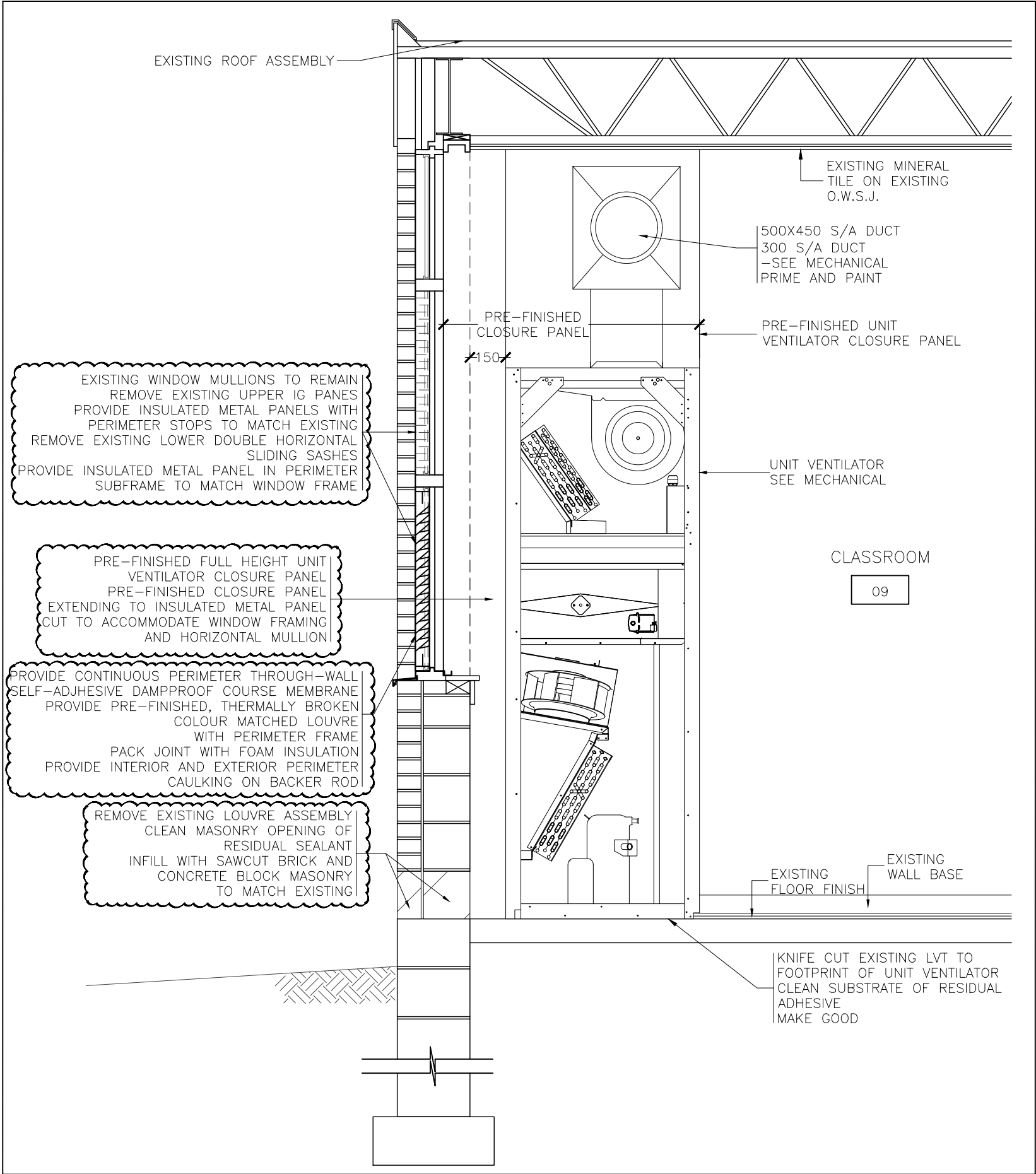
BUILDING SERVICES


PERMIT NO: 22-111973 REV 01

DATE: 08/16/2024

OAKVILLE


TOWN OF OAKVILLE





GLADYS SPEERS PUBLIC  
SCHOOL RENOVATIONS  
2150 SAMWAY RD,  
OAKVILLE

ONTARIO



Unit 100 – 706 Euclid Avenue  
Toronto, Ontario, Canada M6G 2T9  
Tel:(416)591-6575 Fax:(416)591-1010

Title:  
EXISTING EXTERIOR  
WALL AT UNIT  
VENTILATOR SECTION

Date:  
JUL. 09, 2024

Issued:

Drawn by:  
L.Z.

Scale:  
1:20

Job No:  
21153

Drawing:  
SK6

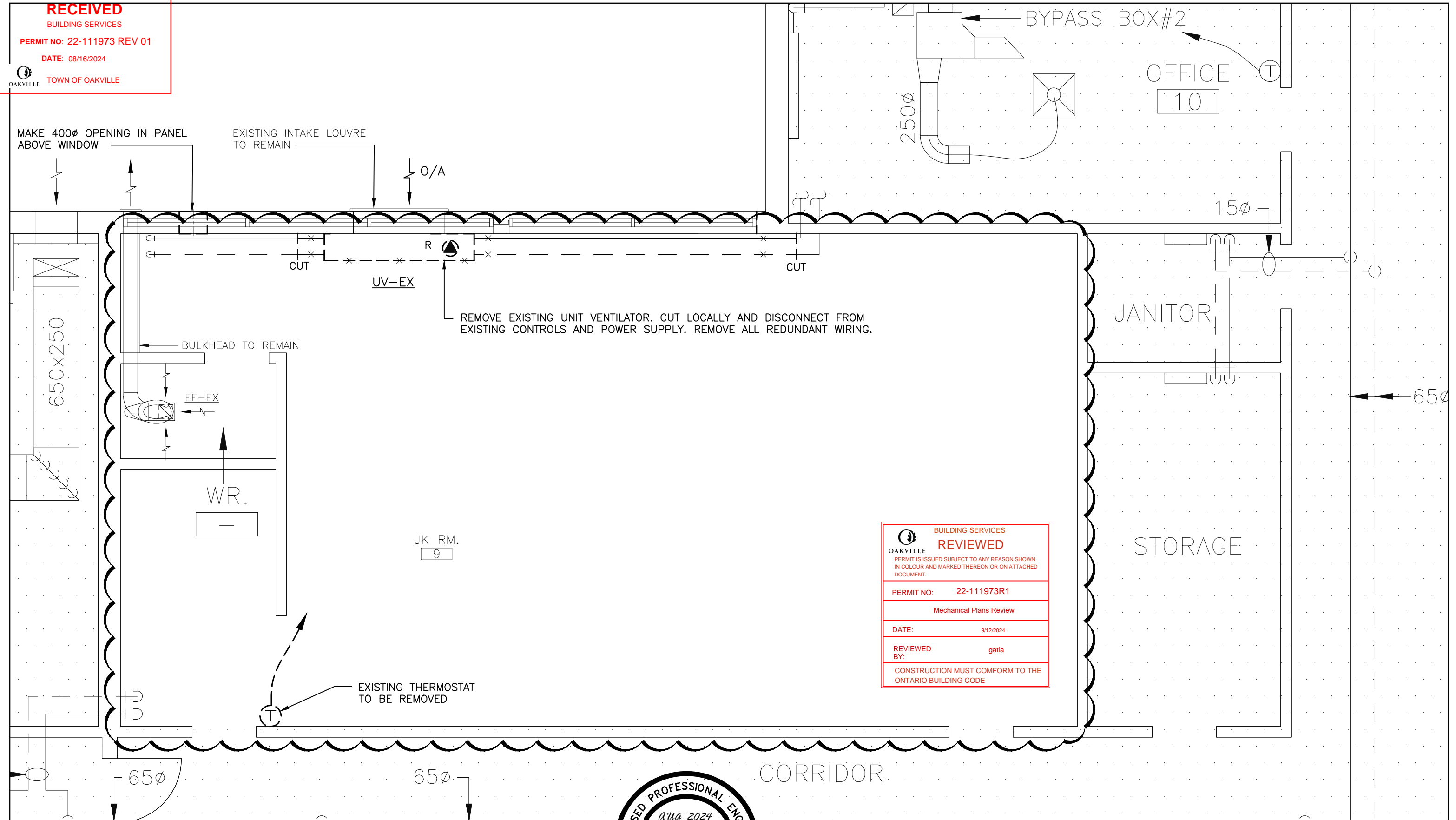
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BUILDING SERVICES

PERMIT NO: 22-111973 REV 01

DATE: 08/16/2024

TOWN OF OAKVILLE



BUILDING SERVICES

REVIEWED

PERMIT IS ISSUED SUBJECT TO ANY REASON SHOWN IN COLOUR AND MARKED THEREON OR ON ATTACHED DOCUMENT.

PERMIT NO: 22-111973R1


Mechanical Plans Review

DATE: 9/12/2024

REVIEWED BY: gatia

CONSTRUCTION MUST COMFORM TO THE ONTARIO BUILDING CODE



Issued for CCN-9	Designed by P.C.	Checked by O.C.	Job No. 2022-01	Date 04/04/2023	Scale 1:50
 <b>SAB</b> ENGINEERING Inc.  588 EDWARD AVE., UNIT 25, RICHMOND HILL, ONT., L4C 9Y6 TEL. (905)-787 8885 FAX (905)-787 8771	Job Name GLADYS SPEERS PS - HVAC UPGRADES				SKETCH #  <b>SKM-2.1-6</b>
	Drawing Name GR. FLOOR - JK. ROOM - NEW WORK - MECHANICAL			REF. DWG. M-2.1	



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BUILDING SERVICES  
PERMIT NO: 22-111973 REV 01  
DATE: 08/16/2024  
OAKVILLE TOWN OF OAKVILLE

NEW 400ø PRESSURE RELIEF DAMPER  
NEW 450x450 E/A LOUVRE

EXISTING INTAKE LOUVRE  
TO REMAIN  
EXISTING LOUVRE TO REMAIN

TERMINATE CONDENSATE LINE  
TO OUTSIDE, AVOID WALKWAY

NEW HG&HL PIPES UP TO  
CDU-2 ON THE ROOF

NEW HWS&HWR PIPES TO MATCH  
EXISTING PIPES SIZE

NEW 25ø HWS&HWR TO THE NEW UNIT VENTILATOR.  
FOR CONNECTION SEE DWG. SKM-3.1-7-D

UV-JK9

NEW UNIT VENTILATOR  
TO BE INSTALLED

WORK NOTES:

- ① NEW 800x200 O/A DUCT AND NEW PLENUM O/A 1,300x250x250  
TO BE EXTERNAL INSULATED.
- ② NEW HWS&HWR PIPES TO BE INSTALLED  
ABOVE F/A DUCT



Issued for CCN-9	Designed by P.C.	Checked by O.C.	Job No. 2022-01	Date 04/04/2023	Scale 1:50
SAB ENGINEERING Inc. 588 EDWARD AVE., UNIT 25, RICHMOND HILL, ONT., L4C 9Y6 TEL (905) 787 8885 FAX (905) 787 8771		Job Name GLADYS SPEERS PS - HVAC UPGRADES			SKETCH #
Drawing Name GR. FLOOR - JK. ROOM - NEW WORK - MECHANICAL				REF. DWG. M-3.1	SKM-3.1-7-A

OAKVILLE BUILDING SERVICES REVIEWED PERMIT IS ISSUED SUBJECT TO ANY REASON SHOWN IN COLOUR AND MARKED THEREON OR ON ATTACHED DOCUMENT.	
PERMIT NO: 22-111973R1	Mechanical Plans Review
DATE: 9/12/2024	
REVIEWED BY: gatia	
CONSTRUCTION MUST CONFORM TO THE ONTARIO BUILDING CODE	



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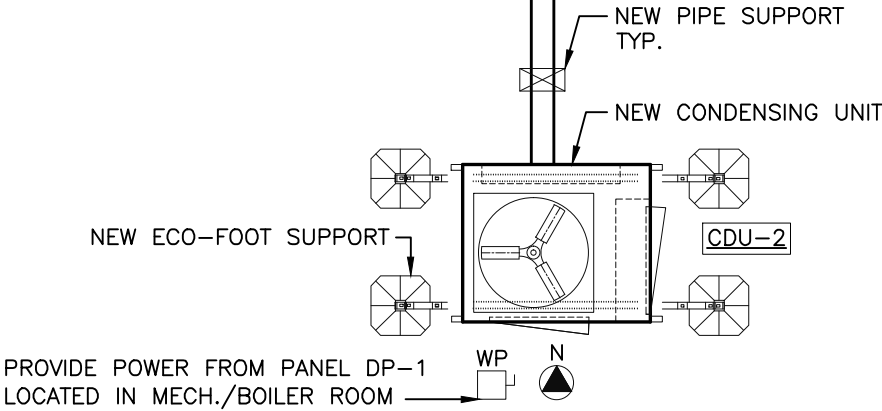
BUILDING SERVICES

PERMIT NO: 22-111973 REV 01

DATE: 08/16/2024

TOWN OF OAKVILLE

RL/RG PIPES DOWN TO UV-JK9  
IN THE JK CLASSROOM 9 (GR. FL)  
COMPLETE WITH SHEET METAL COVER



BUILDING SERVICES

REVIEWED

PERMIT IS ISSUED SUBJECT TO ANY REASON SHOWN  
IN COLOUR AND MARKED THEREON OR ON ATTACHED  
DOCUMENT.

PERMIT NO: 22-111973R1


Mechanical Plans Review

DATE: 9/12/2024

REVIEWED BY: gatia

CONSTRUCTION MUST COMFORM TO THE  
ONTARIO BUILDING CODE




Issued for CCN-9	Designed by P.C.	Checked by O.C.	Job No. 2022-01	Date 04/04/2023	Scale 1:50
 <b>SAB</b> ENGINEERING Inc. <small>588 EDWARD AVE., UNIT 25, RICHMOND HILL, ONT., L4C 9Y6 TEL. (905)-787 8885 FAX (905)-787 8771</small>	Job Name GLADYS SPEERS PS - HVAC UPGRADES			SKETCH #	
	Drawing Name PART OF THE ROOF - NEW WORK - MECHANICAL			REF. DWG. M-3.1	SKM-3.1-7-B

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BUILDING SERVICES

PERMIT NO: 22-111973 REV 01

DATE: 08/10/2024

TOWN OF OAKVILLE

SCHEDULE OF UNIT VENTILATORS

TAG	AIR FLOW		ESP Pa [IN WC]	HEATING CAPACITY					DX COOLING			POWER (V/PH/HZ)	BLOWER MOTOR HP	MCA (AMPS)	MOCP (AMPS)	UNIT DIMENSIONS H x W x D [MM]	WEIGHT KG [LBS]	REMARKS
	TOTAL (CFM)	MIN OA (CFM)		TOTAL kW [MBH]	EAT °C [°F]	LAT °C [°F]	WATER FLOW L/S [GPM]	WPD kPa [FT WC]	TOTAL CAP. kW [MBH]	SENS. CAP. kW [MBH]	REFRIGERANT							
UV-JK9	1,600	420	63 [0.25]	21 [70.8]	10 [50]	33 [91]	0.48 [7.7]	14.8 [5.0]	16 [53]	11 [36]	R410A	208/3/60	3/4	7.5	15	2,238x1,188x660	386 [850]	COMPLETE WITH DUCT SHROUD

NOTES:  
  
1. PERFORMANCE BASED ON EWT/LWT 180/160°F, BALANCE THE FLOW AT EACH UNIT AS INDICATED ON THE DRAWINGS AND SCHEDULE.  
2. UNIT VENTILATOR C/W MANUFACTURER LOUVER, WALL SLEEVE  
3. C/W TOP DUCT COVER, PEDESTAL BASE

SCHEDULE OF OUTDOOR CONDENSERS

TAG	COOLING CAP. kW [MBH]	REFRIGERANT	CONNECTION SIZES		EQUIPMENT SIZE (HxWxL, MM)	WEIGHT KG [LBS]	POWER SUPPLY (V/PH/Hz)	MCA (AMPS)	MOCP (AMPS)	REMARKS
			RL-MM [IN]	RG-MM [IN]						
CDU-2	85.1 [290]	R-410A	1x12.7 [½"]	1x22.2 [¾"]	1,145x1,042x1,245	295 [650]	208/3/60	25.7	40	FOR UV-JK9 IN JK CLASSROOM 9

NOTES:  
  
1. PROVIDE ALL INTERCONNECTED REFRIGERANT LINE SET BETWEEN INDOOR AND OUTDOOR UNIT.  
2. UNIT TO BE BACNET AND CONTROLLED BY THE BAS.  
3. ALL THE FINAL SIZE FOR THE REFRIGERATION PIPES TO BE BY THE UNIT/ SYSTEM MANUFACTURER BASED ON FINAL ROUTING.  
4. MANUFACTURER TO PROVIDE DETAILED PIPE SIZE AND SCHEMNATIC AS PART OF SHOP DRAWINGS SUBMITAL.

SCHEDULE OF GRILLES &amp; DIFFUSERS

MECHANICAL EQUIPMENT WIRING SCHEDULE

NOTES:  
  
PROVIDE CONNECTION TO MECHANICAL EQUIPMENT TO ENSURE THAT FULL OPERATIONAL SYSTEMS ARE DELIVERED TO THE OWNER.  
  
PROVIDE POWER CONNECTION TO ALL EQUIPMENT LISTED IN THE SCHEDULE. REFER ROOF LAYOUT FOR EXACT LOCATION OF EQUIPMENT.  
  
PROVIDE SEPARATE DISCONNECTS FOR INDIVIDUAL MECHANICAL EQUIPMENT. SIZE AS INDICATED IN THE SCHEDULE.  
  
DISCONNECTS LOCATIONS SHALL BE VERIFIED AND CO-COORDINATED ON SITE.  
  
CONNECT NEW UNITS TO EXISTING FIRE ALARM SYSTEM. INCLUDE ALL REQUIRED WIRING AND DEVICES. PROVIDE VERIFICATION OF THE FIRE ALARM SYSTEM.  
  
CONNECT NEW UNITS TO EXISTING BAS. INCLUDE ALL REQUIRED WIRING AND DEVICES. PROVIDE VERIFICATION OF THE BAS.

Issued for  
CCN-9

SAB  
ENGINEERING Inc.  
588 EDWARD AVE., UNIT 25, RICHMOND HILL, ONT., L4C 9Y6  
TEL (905)-787 8885 FAX (905)-787 8771

Designed by  
P.C.

Checked by  
O.C.

Job No.  
2022-01

Date  
04/04/2023

Scale  
N.T.S.

Job Name  
GLADYS SPEERS PS - HVAC UPGRADES

Drawing Name  
SCHEDULE - MECHANICAL

REF. DWG.  
M-3.1

SKETCH #  
SKM-3.1-7-C

BUILDING SERVICES

REVIEWED

PERMIT IS ISSUED SUBJECT TO ANY REASON SHOWN  
IN COLOUR AND MARKED THEREON OR ON ATTACHED  
DOCUMENT.

PERMIT NO: 22-111973R1

Mechanical Plans Review

DATE: 9/12/2024

REVIEWED  
BY: gatia

CONSTRUCTION MUST CONFORM TO THE  
ONTARIO BUILDING CODE



RECEIVED

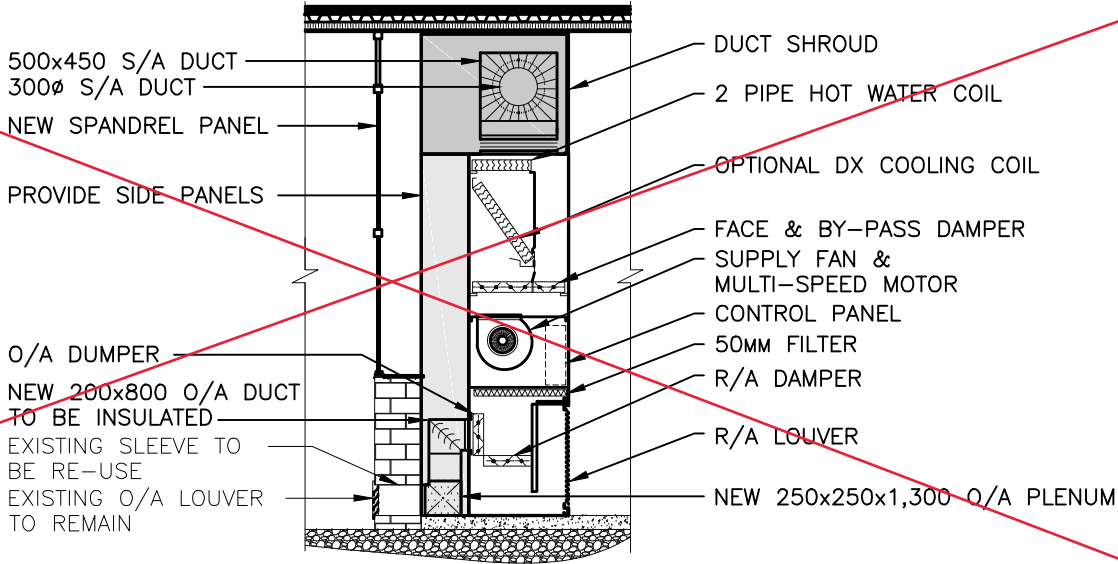
BUILDING SERVICES

PERMIT NO: 22-111973 REV 01

DATE: 08/16/2024

OAKVILLE

TOWN OF OAKVILLE



SECTION 'A-A'  
SCALE: 1:50

OAKVILLE

BUILDING SERVICES

REVIEWED

PERMIT IS ISSUED SUBJECT TO ANY REASON SHOWN IN COLOUR AND MARKED THEREON OR ON ATTACHED DOCUMENT.

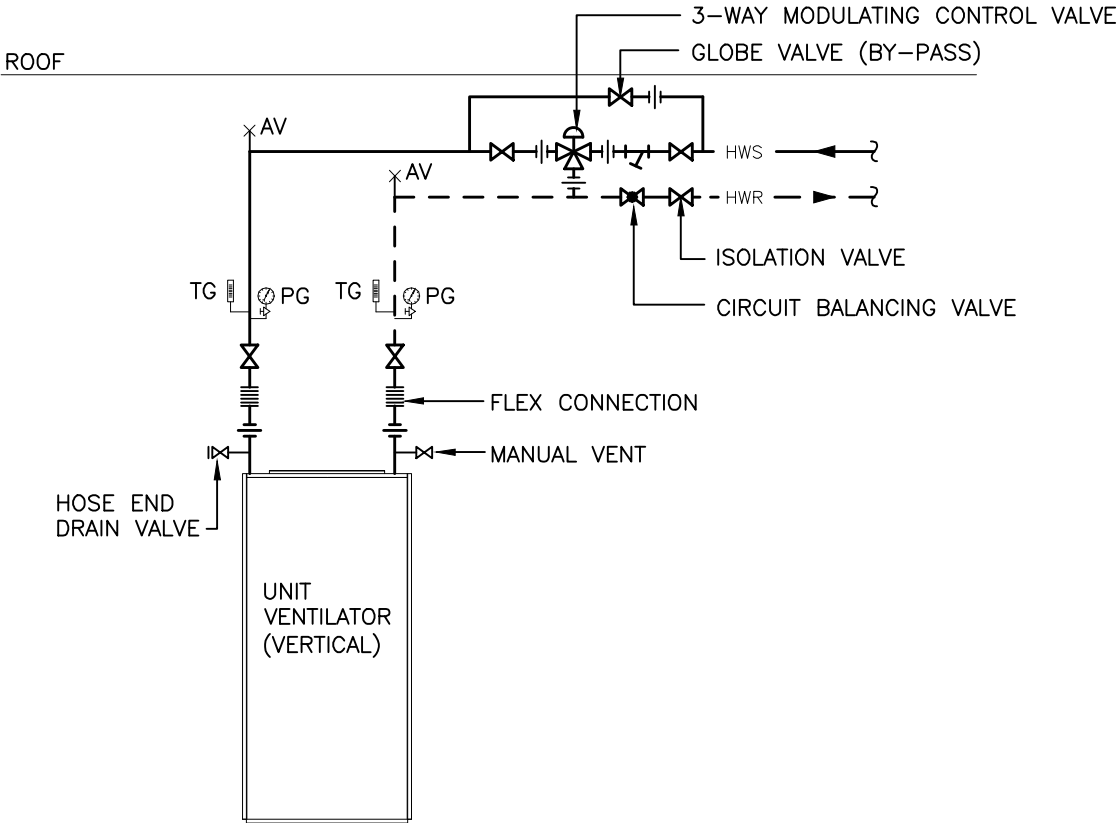
PERMIT NO: 22-111973R1

Mechanical Plans Review

DATE: 9/12/2024

REVIEWED BY: gatia

CONSTRUCTION MUST COMFORM TO THE ONTARIO BUILDING CODE



TYPICAL UNIT VENTILATOR PIPING CONNECTION  
N.T.S.



Issued for CCN-9	Designed by P.C.	Checked by O.C.	Job No. 2022-01	Date 04/04/2023	Scale AS SHOWN
<div><div>SAB</div><div>ENGINEERING Inc.</div><div>588 EDWARD AVE., UNIT 25, RICHMOND HILL, ONT., L4C 9Y6 TEL (905)-787 8885 FAX (905)-787 8771</div></div>	Job Name GLADYS SPEERS PS - HVAC UPGRADES			SKETCH #	
	Drawing Name SCHEDULE - MECHANICAL			REF. DWG. M-3.1	SKM-3.1-7-D

RECEIVED

BUILDING SERVICES

PERMIT NO: 22-111973 REV 01

DATE: 08/16/2024



TOWN OF OAKVILLE

	BUILDING SERVICES
<b>REVIEWED</b>	
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PERMIT NO:	22-111973R1
Mechanical Plans Review	
DATE:	9/12/2024
REVIEWED BY:	gatiā
CONSTRUCTION MUST COMFORM TO THE ONTARIO BUILDING CODE	

500x450 S/A DUCT

300Ø S/A DUCT

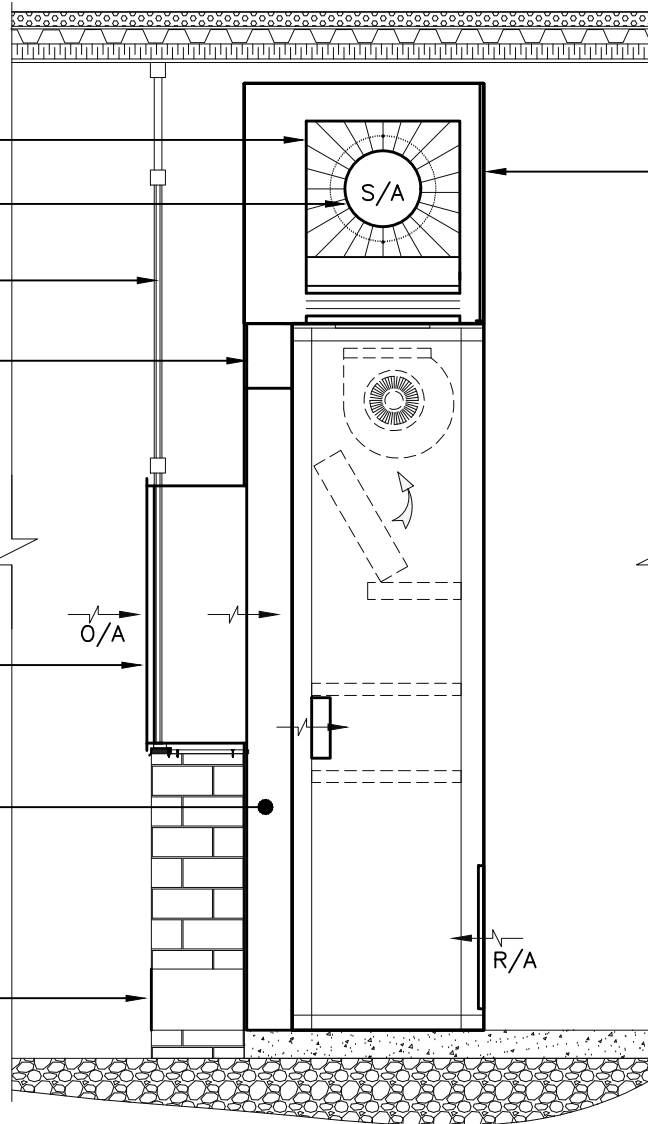
NEW SPANDREL PANEL

PROVIDE FILLER PANELS

850(H)x650(W)  
O/A LOUVER

150MM REAR EXTENSION

PATCH & REPAIR  
WALL OPENING



DUCT SHROUD  
(TOP DUCT COVER)

O/A

R/A



**SECTION A-A: INSTALLATION DETAILS**

1:25

	Issued for SI-2	Designed by T.N.	Checked by O.C.	Job No. 2022-01	Date 25/06/2024	Scale AS SHOWN
	 <b>SAB</b> ENGINEERING Inc.	Job Name GLADYS SPEERS PS - HVAC UPGRADES				SKETCH #
	588 EDWARD AVE., UNIT 25, RICHMOND HILL, ONT., L4C 9Y6 TEL. (905)-787 8885 FAX (905)-787 8771	Drawing Name UV CONNECTION DETAILS - MECHANICAL				REF. DWG. M-3.1

SKM-3.1-7-D-R1

Town of Oakville  
1225 Trafalgar Road  
Oakville, ON  
L6H 0H3

November 7, 2024

Re: Permit No. 22 – 111973 REV 01  
Gladys Speers PS – Renovations  
2150 Samway Road, Oakville , ON., L6L 2P6



Att: David Lindsay, *Fire Prevention Officer*

Dear Mr. Lindsay,

We have reviewed the comments in your letter dated September 11, 2024, and our answerers are as follows:

1. Please see attached hydraulic calculations and specification sheet for the proposed back flow preventer assembly.

If you need additional information, please do not hesitate to contact us.

Best Regards,



Gabriela Strashun, P. Eng.

**RECEIVED**

BUILDING SERVICES

PERMIT NO: 22-111973 REV 01



DATE: 11/19/2024

TOWN OF OAKVILLE



**SAB**

ENGINEERING Inc.



## HYDRAULIC DESIGN SUMMARY

PROJECT NAME:

**GLADYS SPEERS PS**  
2150 SAMWAY ROAD

DESIGN AREA "FSP-1"

- DESIGN IS BASED ON NFPA 14 (1960). THIS WAS THE NFPA 14 CODE USED AT THE TIME OF CONSTRUCTION.
- DESIGN SPECIFIES TWO 1½" FHV TO BE CALCULATED AT A FLOW OF 35 USGPM & A PRESSURE OF 25 PSI.

NUMBER OF FHC CALCULATED: 2:

NOV. 05, 2024

DEMAND (AT SOURCE): 70.3 USGPM @ 40.1 PSI



AVAILABLE (AT SOURCE): 70.3 USGPM @ 55.0 PSI

FIRE HYDRANT FLOW TEST CONDUCTED BY WSD ON FIRE HYDRANTS ON SAMWAY ROAD  
ON MAY 14, 2024:

- STATIC: 55 PSI
- FLOW: 950 USGPM @ 50 PSI



DATE: 10/21/2024 C:\USERS\14168\DOCUMENTS\HASSDATA\2150 SAMWAY ROAD.SDF  
 JOB TITLE: GLADYS SPEERS, 2150 SAMWAY ROAD - FSP

WATER SUPPLY DATA

SOURCE NODE TAG	STATIC PRESS. (PSI)	RESID. PRESS. (PSI)	FLOW @ (GPM)	AVAIL. PRESS. (PSI)	TOTAL @ DEMAND (GPM)	REQ'D PRESS. (PSI)
SOURCE	55.0	50.0	950.0	55.0	70.3	40.1

AGGREGATE FLOW ANALYSIS:

TOTAL FLOW AT SOURCE	70.3 GPM
TOTAL HOSE STREAM ALLOWANCE AT SOURCE	0.0 GPM
OTHER HOSE STREAM ALLOWANCES	0.0 GPM
TOTAL DISCHARGE FROM ACTIVE SPRINKLERS	70.3 GPM



NODE ANALYSIS DATA

NODE TAG	ELEVATION (FT)	NODE TYPE	PRESSURE (PSI)	DISCHARGE (GPM)
F1	5.0	K= 7.00	25.0	35.0
F2	5.0	K= 7.00	25.4	35.3
J1	12.0	- - - -	22.3	- - -
J2	12.0	- - - -	22.7	- - -
J3	12.0	- - - -	28.3	- - -
TOR	12.0	- - - -	28.9	- - -
BFO	3.0	- - - -	32.9	- - -
BFI	3.0	- - - -	39.9	- - -
SPG	3.0	- - - -	39.9	- - -
SOURCE	3.0	SOURCE	40.1	70.3

DATE: 10/21/2024 C:\USERS\14168\DOCUMENTS\HASSDATA\2150 SAMWAY ROAD.SDF  
JOB TITLE: GLADYS SPEERS, 2150 SAMWAY ROAD - FSP

PIPE DATA

PIPE TAG						Q (GPM)	DIA (IN)	LENGTH	PRESS.	
END	ELEV.	NOZ.	PT	DISC.	VEL (FPS)	HW (C)		(FT)	SUM.	
NODES	(FT)	(K)	(PSI)	(GPM)		FL/FT			(PSI)	
Pipe: 1										
F1	5.0	7.0	25.0	35.0	-35.0 3.3	2.067 120	PL FTG	9.00 ET	PF PE	0.3 -3.0
J1	12.0	0.0	22.3	0.0		0.013	TL	24.00	PV	PERM
Pipe: 2										
F2	5.0	7.0	25.4	35.3	-35.3 3.4	2.067 120	PL FTG	9.00 ET	PF PE	0.3 -
J2	12.0	0.0	22.7	0.0		0.014	TL	24.00	PV	OAKVI
Pipe: 3										
J1	12.0	0.0	22.3	0.0	-35.0 2.3	2.470 120	PL FTG	76.00 ----	PF PE	0.4 0.0
J2	12.0	0.0	22.7	0.0		0.006	TL	76.00	PV	
Pipe: 4										
J2	12.0	0.0	22.7	0.0	-70.3 4.7	2.470 120	PL FTG	246.00 2ET	PF PE	5.6 0.0
J3	12.0	0.0	28.3	0.0		0.021	TL	270.05	PV	
Pipe: 5										
J3	12.0	0.0	28.3	0.0	-70.3 2.7	3.260 120	PL FTG	64.50 6E	PF PE	0.6 0.0
TOR	12.0	0.0	28.9	0.0		0.005	TL	120.95	PV	
Pipe: 6										
TOR	12.0	0.0	28.9	0.0	-70.3 2.7	3.260 120	PL FTG	9.00 ----	PF PE	0.0 3.9
BFO	3.0	0.0	32.9	0.0		0.005	TL	9.00	PV	
Pipe: 7										
BFO	3.0	0.0	32.9	0.0	FIXED PRESSURE LOSS DEVICE					
BFI	3.0	0.0	39.9	0.0	7.0 psi, 70.3 gpm					
Pipe: 8										
BFI	3.0	0.0	39.9	0.0	-70.3 1.8	4.026 120	PL FTG	1.00 ----	PF PE	0.0 0.0
SPG	3.0	0.0	39.9	0.0		0.002	TL	1.00	PV	
Pipe: 9										
SPG	3.0	0.0	39.9	0.0	-70.3 1.8	4.026 150	PL FTG	150.00 2ETG	PF PE	0.3 0.0
SOURCE	3.0	SRCE	40.1	(N/A)		0.001	TL	213.46	PV	



NOTES (HASS):

- Calculations were performed by the HASS 2023 D computer program in accordance with NFPA (2020) under license no. 64619073 granted by  
HRS Systems, Inc.  
208 Southside Square  
Petersburg, TN 37144  
(931) 659-9760
- The system has been calculated to provide an average imbalance at each node of 0.018 gpm and a maximum imbalance at any node of 0.163 gpm.

DATE: 10/21/2024 C:\USERS\14168\DOCUMENTS\HASSDATA\2150 SAMWAY ROAD.SDF  
 JOB TITLE: GLADYS SPEERS, 2150 SAMWAY ROAD - FSP

(3) Total pressure at each node is used in balancing the system.  
 Maximum water velocity is 4.7 ft/sec at pipe 4.

(4) Items listed in bold print on the cover sheet

are automatically transferred from the calculation report.

(5) Available pressure at source node SOURCE under full flow conditions is  
 54.94 psi with a flow of 85.17 gpm.

(6) PIPE FITTINGS TABLE

HASS Pipe Table Name: standard

PAGE: A	MATERIAL: S40		HWC: 120						
Diameter	Equivalent Fitting Lengths in Feet								
(in)	E	T	L	C	B	G	A	D	N
	Ell	Tee	LngEll	ChkVlv	BfyVlv	GatVlv	AlmChk	DPVlv	NTee
	-----								
	F								
	F45Ell								
2.067	5.00	10.00	3.00	11.00	6.00	1.00	10.00	10.00	10.00
	2.50								
4.026	10.00	20.00	6.00	22.00	12.00	2.00	20.00	20.00	20.00
	5.00								

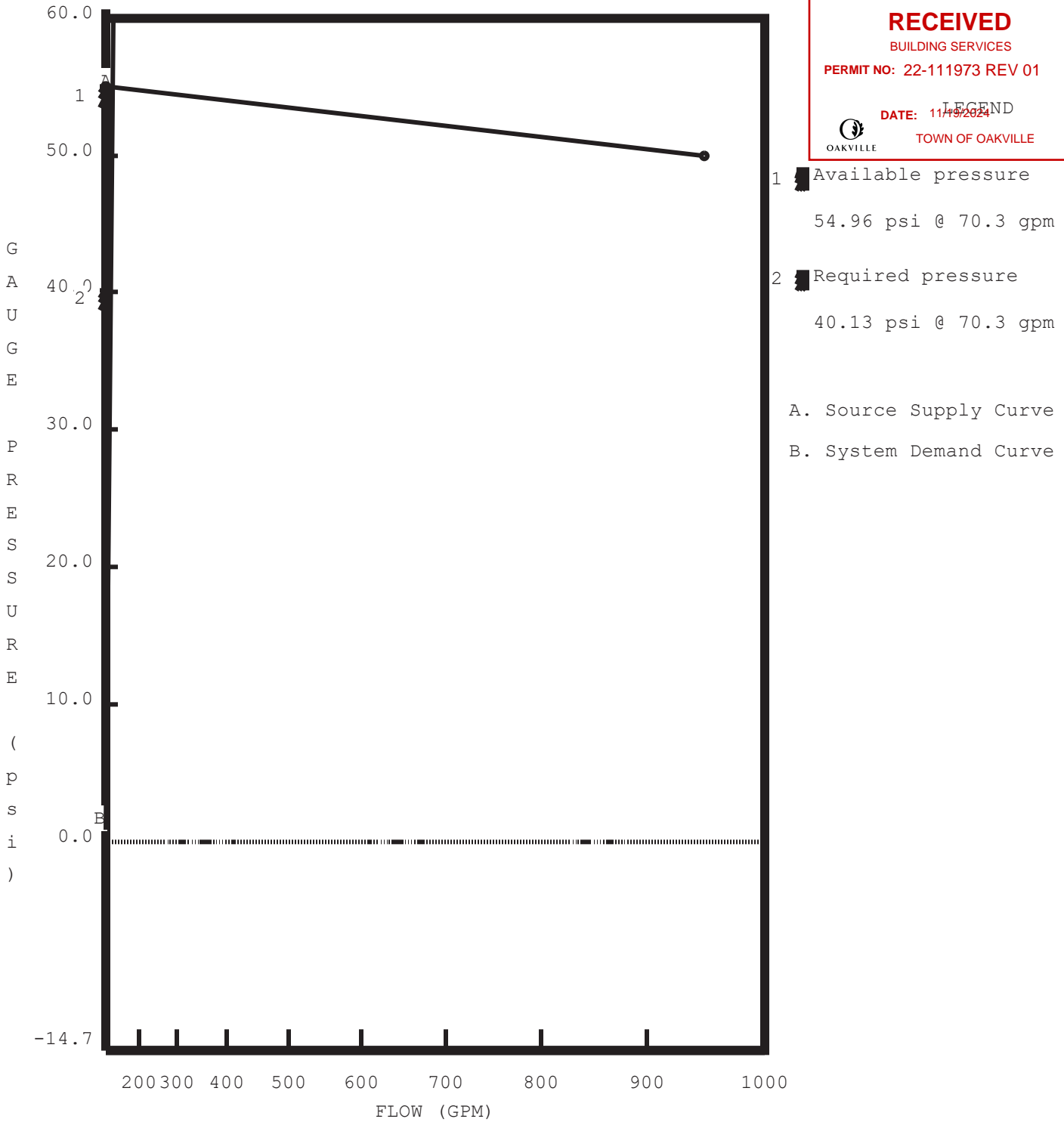
PAGE: *	MATERIAL: Custom								
Diameter	Equivalent Fitting Lengths in Feet								
(in)	E	T	L	C	B	G	A	D	N
	Ell	Tee	LngEll	ChkVlv	BfyVlv	GatVlv	AlmChk	DPVlv	NPTee
-----									
	F								
	F45Ell								
2.470	6.01	12.02	4.01	14.03	7.01	1.00	10.02	10.02	12.02
	3.01								
3.260	9.41	20.16	6.72	21.50	13.44	1.34	17.47	17.47	20.16
	4.70								



DATE: 10/21/2024 C:\USERS\14168\DOCUMENTS\HASSDATA\2150 SAMWAY ROAD.SDF  
 JOB TITLE: GLADYS SPEERS, 2150 SAMWAY ROAD - FSP

WATER SUPPLY ANALYSIS

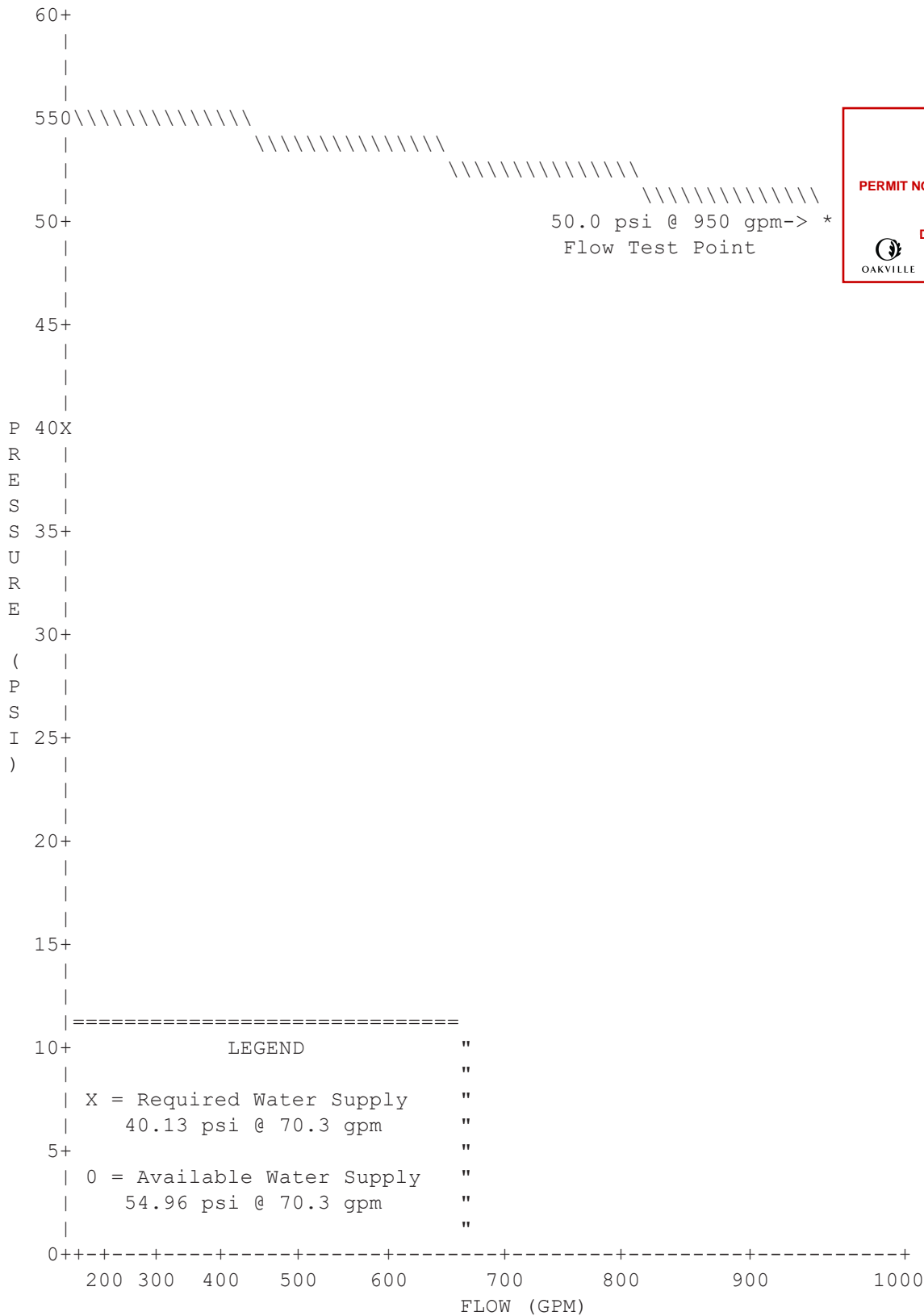
Static: 55.00 psi Resid: 50.00 psi Flow: 950.0 gpm



DATE: 10/21/2024 C:\USERS\14168\DOCUMENTS\HASSDATA\2150 SAMWAY ROAD.SDF

JOB TITLE: GLADYS SPEERS, 2150 SAMWAY ROAD - FSP

WATER SUPPLY CURVE



Job Name \_\_\_\_\_

Job Location \_\_\_\_\_

Engineer \_\_\_\_\_

Approval \_\_\_\_\_

Contractor \_\_\_\_\_

Approval \_\_\_\_\_

Contractor's P.O. No. \_\_\_\_\_

Representative \_\_\_\_\_

**LEAD FREE\***

## Series 757, 757N Double Check Valve Assemblies

**Sizes: 2½" – 10"**

Series 757, 757N Double Check Valve Assemblies are used to prevent backflow of non-health hazard pollutants that are objectionable but not toxic, from entering the potable water supply system. Series 757, 757N may be installed under continuous pressure service and may be subjected to backpressure and backsiphonage. Series 757, 757N consists of two independently operating check valves, two shutoff valves, and four test cocks.

### Features

- Extremely compact design
- 70% Lighter than traditional designs
- 304 (Schedule 40) Stainless steel housing & sleeve
- Groove fittings allow integral pipeline adjustment
- Patented tri-link check provides lowest pressure loss
- Unmatched ease of serviceability
- Available with grooved butterfly valve shutoffs
- Available for horizontal, vertical or N pattern installations
- Replaceable check disc rubber
- Sizes 2½", 3" and 4" available with quarter-turn ball valve shutoffs

### Specifications

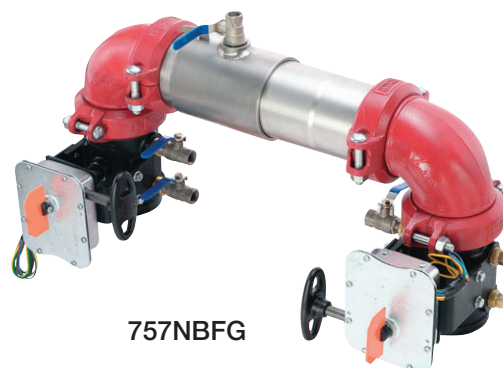
The Double Check Valve Assembly shall consist of two independent tri-link check modules within a single housing, sleeve access port, four test cocks and two drip tight shut-off valves. Tri-link checks shall be removable and serviceable, without the use of special tools. The housing shall be constructed of 304 Schedule 40 stainless steel pipe with groove end connections. Tri-link checks shall have reversible elastomer discs and in operation shall produce drip tight closure against reverse flow caused by backpressure or backsiphonage. Assembly shall be a Watts Series 757, 757N.

**\*The wetted surface of this product contacted by consumable water contains less than 0.25% of lead by weight.**

Watts product specifications in U.S. customary units and metric are approximate and are provided for reference only. For precise measurements, please contact Watts Technical Service. Watts reserves the right to change or modify product design, construction, specifications, or materials without prior notice and without incurring any obligation to make such changes and modifications on Watts products previously or subsequently sold.



**757OSY**



**757NBFG**



**757OSY  
(Vertical)**

### NOTICE

The information contained herein is not intended to replace the full product installation and safety information available or the experience of a trained product installer. You are required to thoroughly read all installation instructions and product safety information before beginning the installation of this product.





## Available Models

Suffix:

- NRS – non-rising stem resilient seated gate valves
- OSY – UL/FM outside stem and yoke, resilient seated gate valves
- BFG – UL/FM grooved gear operated butterfly valves with tamper switch
- QT – 2½", 3" and 4" quarter-turn ball valves
- \*\*OSY FxG – Flanged inlet gate connection and grooved outlet gate connection
- \*\*OSY GxF – Grooved inlet gate connection and flanged outlet gate connection
- \*\*OSY GxG – Grooved inlet gate connection and grooved outlet gate connection

Available with grooved NRS gate valves - consult factory\*\*

Post indicator plate and operating nut available - consult factory\*\*

\*\*Consult factory for dimensions

## Materials

Housing & Sleeve: 304 (Schedule 40) Stainless Steel

Elastomers: EPDM, Silicone and Buna-N

Tri-link Checks: Noryl®, Stainless Steel

Check Discs: Reversible Silicone or EPDM

Test Cocks: Bronze Body Nickel Plated

Pins & Fasteners: 300 Series Stainless Steel

Springs: Stainless Steel

## Pressure – Temperature

Temperature Range: 33°F – 140°F (0.5°C – 60°C)

Maximum Working Pressure: 175psi (12.1 bar)

## Approvals

- Approved by the Foundation for Cross-Connection Control and Hydraulic Research at The University of Southern California (FCCCHR-USC)

- AWWA C511-97

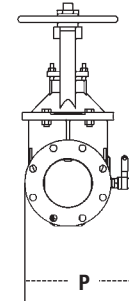
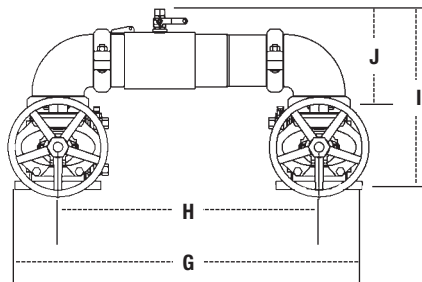
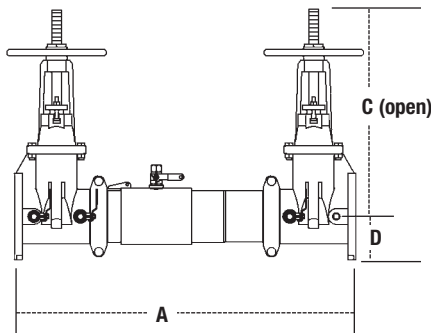


(\*\*BFG & OSY Only)

Certified to NSF/ANSI 61

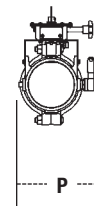
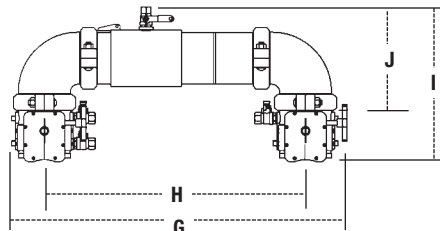
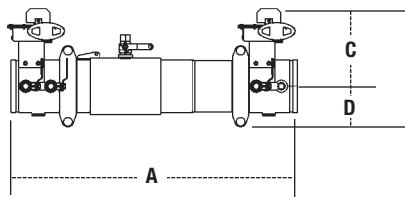


## Dimensions – Weight



757, 757N

SIZE		DIMENSIONS														WEIGHT										
A			C (OSY)		C (NRS)		D		G		H		I		J		P		757NRS		757OSY		757N NRS		757N OSY	
<i>in.</i>	<i>in.</i>	<i>mm</i>	<i>in.</i>	<i>mm</i>	<i>in.</i>	<i>mm</i>	<i>in.</i>	<i>mm</i>	<i>in.</i>	<i>mm</i>	<i>in.</i>	<i>mm</i>	<i>in.</i>	<i>mm</i>	<i>in.</i>	<i>mm</i>	<i>in.</i>	<i>mm</i>	<i>lbs.</i>	<i>kgs.</i>	<i>lbs.</i>	<i>kgs.</i>	<i>lbs.</i>	<i>kgs.</i>	<i>lbs.</i>	<i>kgs.</i>
2½	30¾	781	16¾	416	9¾	238	3½	89	29⅞	738	21½	546	15½	393	8⅜	223	9⅞	234	115	52	125	57	123	56	133	60
3	31¾	806	18¾	479	10¼	260	3⅞	94	30¼	768	22¼	565	17⅞	435	9⅞	233	10½	267	131	59	145	66	144	65	158	72
4	33¾	857	22¾	578	12¾	310	4	102	33	838	23½	597	18½	470	9⅞	252	11¾	284	161	73	161	73	184	83	184	83
6	43½	1105	30¾	765	16	406	5½	140	44¾	1137	33½	851	23¾	589	13¾	332	15	381	273	124	295	134	314	142	336	152
8	49¾	1264	37¾	959	19⅞	506	6⅞	170	54¾	1375	40¾	1019	27⅞	697	15⅞	399	17¾	437	438	199	480	218	513	233	555	252
10	57¾	1467	45¾	1162	23⅞	605	8¾	208	66	1676	49½	1257	32½	826	17¾	440	20	508	721	327	781	354	891	404	951	431

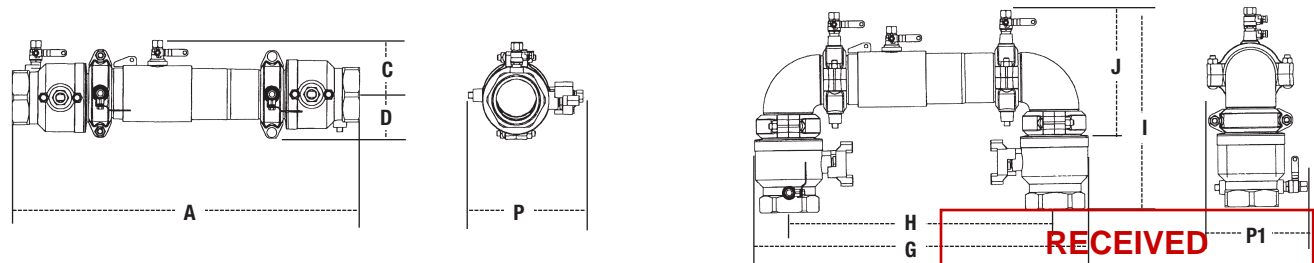


757BFG, 757NBFG


SIZE		DIMENSIONS												WEIGHT						
	A		C		D		G		H		I		J		P		757BFG		757N BFG	
<i>in.</i>	<i>in.</i>	<i>mm</i>	<i>in.</i>	<i>mm</i>	<i>in.</i>	<i>mm</i>	<i>in.</i>	<i>mm</i>	<i>in.</i>	<i>mm</i>	<i>in.</i>	<i>mm</i>	<i>in.</i>	<i>mm</i>	<i>in.</i>	<i>mm</i>	<i>in.</i>	<i>mm</i>	<i>lbs.</i>	<i>kgs.</i>
2½	27¼	705	8	203	3½	89	29⅞	759	21½	546	14⅛	379	8⅜	223	9	229	56	25	64	29
3	28¼	718	8⅞	211	3⅞	94	30⅞	779	22¼	565	15⅞	392	9⅞	233	9½	241	54	24	67	30
4	29	737	8⅞	227	3⅞	94	31⅞	811	23½	597	16¼	412	9⅞	252	10	254	61	28	84	38
6	36½	927	10	254	5	127	43⅞	1097	33¼	845	19⅞	500	13⅞	332	10½	267	117	53	157	71
8	42¾	1086	12¼	311	6½	165	51⅞	1297	40⅞	1019	23⅞	592	15⅞	399	14⅞	361	261	118	337	153

Noryl® is a registered trademark of SABIC Innovative Plastics Holding BV.

Dimensions — Weight continued



757QT

SIZE		DIMENSIONS														 TOWN OF OAKVILLE WEIGHT							
		A		C		D		G		H		I		J		P	P1	QT		QTN			
in.		in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lbs.	kgs.	lbs.	kgs.		
2½		27¼	692	4⅞	124	6⅞	175	30¼	768	24½	622	16⅞	407	11⅞	289	11⅞	287	11⅞	287	40	18	50	23
3		28¼	718	4⅞	124	6⅞	175	30¼	768	24½	622	16⅞	420	11⅞	289	11⅞	287	11⅞	287	50	23	60	27
4		31½	800	4⅞	124	6⅞	175	30¼	768	24½	622	18⅝	465	11⅞	289	11⅞	287	11⅞	287	70	32	80	36

**RECEIVED**  
BUILDING SERVICES  
PERMIT NO: 22-111973 REV 01

DATE: 11/19/2024  
TOWN OF OAKVILLE

## Capacity

Series 757, 757N flow curves as tested by Underwriters Laboratory.  
Flow characteristics collected using butterfly shutoff valves

—— Horizontal    —— Vertical    - - - - - N - Pattern

### Flow capacity chart identifies valve performance based upon rated water velocity up to 25fps

- Service Flow is typically determined by a rated velocity of 7.5fps based upon schedule 40 pipe.
- Rated Flow identifies maximum continuous duty performance determined by AWWA.
- UL Flow Rate is 150% of Rated Flow and is not recommended for continuous duty.
- AWWA Manual M22 [Appendix C] states that the maximum water velocity in services be not more than 10fps.

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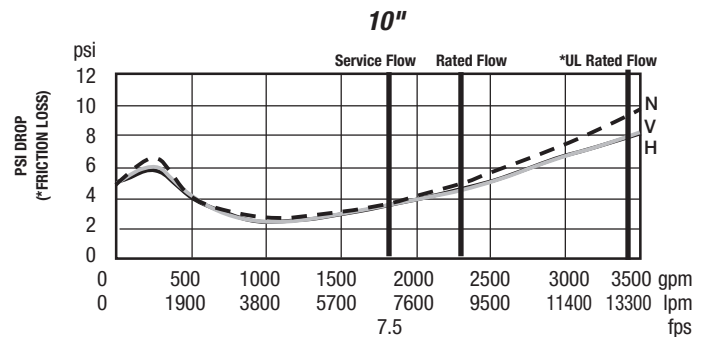
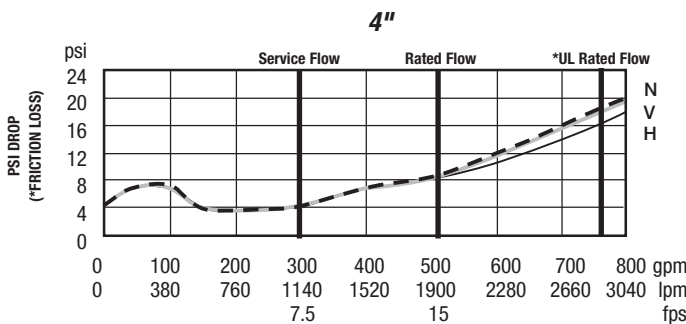
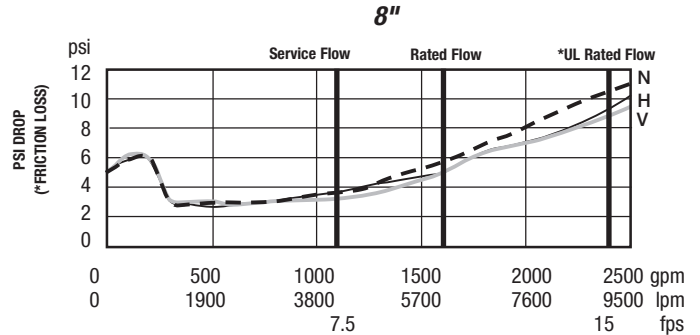
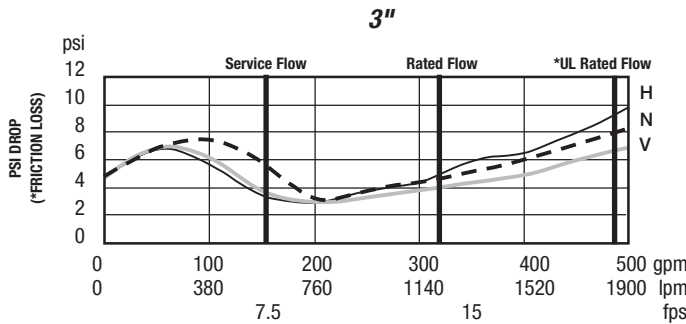
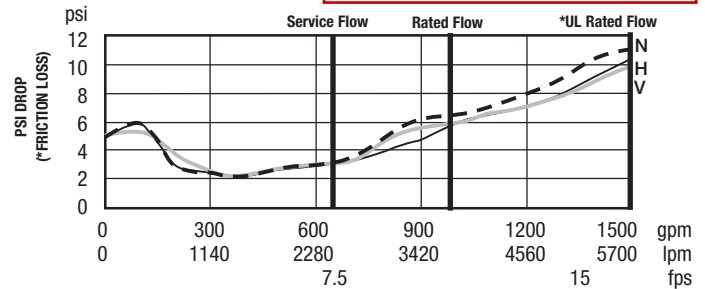
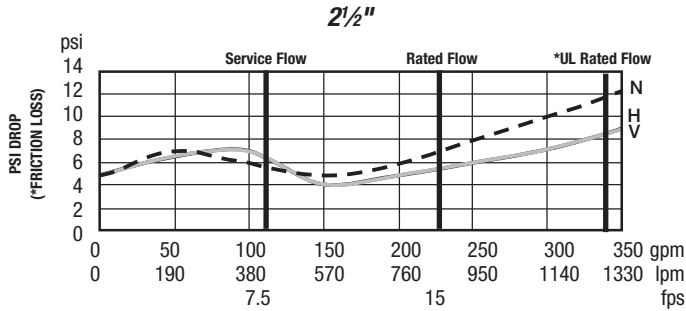
BUILDING SERVICES

PERMIT NO: 22-111973 REV 01

DATE: 11/19/2024



TOWN OF OAKVILLE



### NOTICE

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