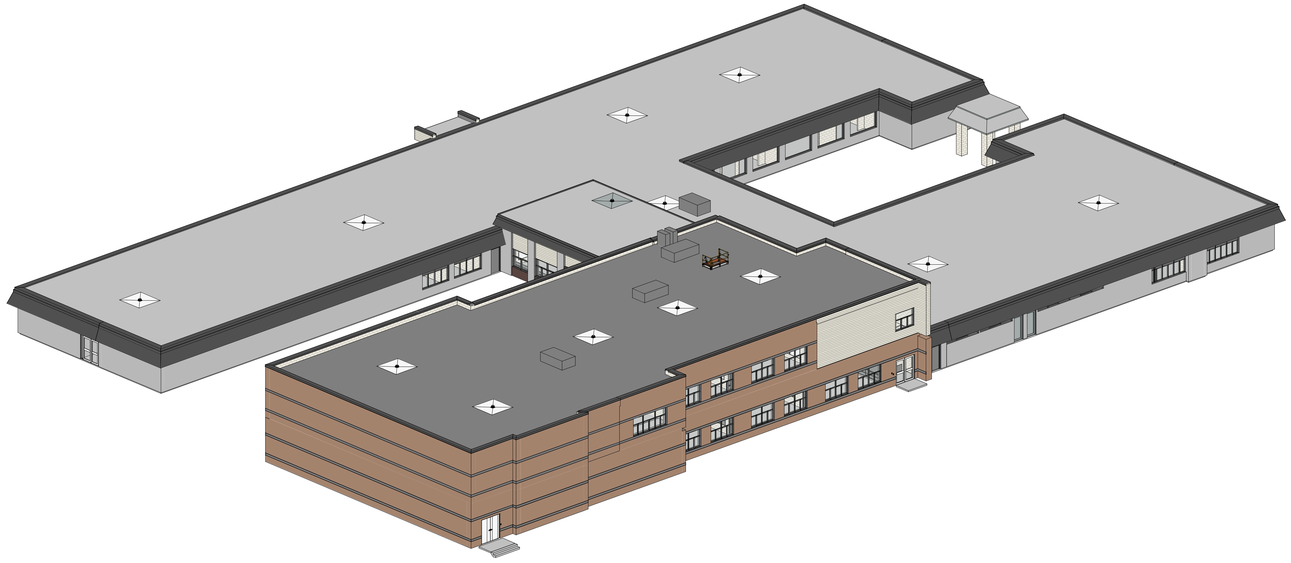

WCDSB St. Paul C.E.S. Addition & Renovation

45 Birchcliff Avenue, Kitchener, ON N2M 4V7

salterpilon
architecture

SP Number: SPA25/073/B

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MARKHAM, ONTARIO
L3T OA8
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OAKVILLE, ONTARIO
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OAKVILLE, ONTARIO
L6K 3S3
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CIVIL

MTE CONSULTANTS INC.
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LANDSCAPE

HILL DESIGN STUDIO INC.
1601 RIVER ROAD E #303
KITCHENER, ONTARIO
N2A 3YA
T: 226-686-0700

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A101	Site Plan
A102	Site Plan Details
A103	Play Area Details
A104	Site Plan Demolition
A105	Site Phasing & Construction Management
A106	Floor Plan Phasing Diagram
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Drawing List - Electrical

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Drawing List - Civil

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INFORMATION TAKEN FROM:

PLAN OF SURVEY OF AND PART OF BLOCK B REGISTERED PLAN No. 1057

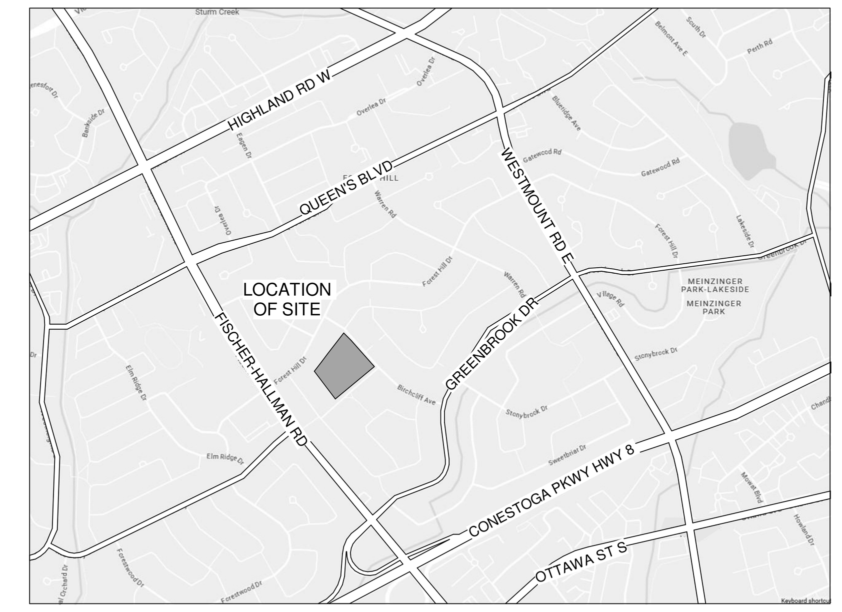
TOWNSHIP OF WATERLOO
REGIONAL MUNICIPALITY OF WATERLOO

AS PREPARED BY VAN HARTEN SURVEYING INC.
ADDRESS
PROJECT No. 34278-25
SURVEY TAKEN: 9TH OF MAY, 2025

SURVEY CONTROL POINT No. _

SITE PLAN GENERAL NOTES:

1. THE CONTRACT CONSISTS OF ALL WORK WITHIN THE 'EXTENT OF CONTRACT' LINE INDICATED ON THE SITE PLAN PLUS ANY WORK SPECIFICALLY NOTED OUTSIDE OF THAT LINE. ALL WORK DONE OUTSIDE OF THESE LIMITS MUST BE EXECUTED IN STRICT ACCORDANCE WITH THE STANDARDS OF THE MUNICIPALITY AND ALL OTHER AUTHORITIES HAVING JURISDICTION. MAKE GOOD AT NO ADDITIONAL COST TO THE OWNER OR MUNICIPALITY ANY DAMAGE CAUSED BY THIS CONSTRUCTION TO MATERIALS OR FINISHES BEYOND THE EXTENT OF CONTRACT LINE.
2. CONTRACTOR IS TO RESTRICT ALL WORK, EQUIPMENT, AND MATERIALS STORAGE TO AREAS WITHIN 'EXTENT OF CONTRACT' LINE EXCEPT WHERE NOTED OTHERWISE. PRIMARY SITE ACCESS POINT & CONSTRUCTION PARKING IS TO BE CONFIRMED WITH BUILDER. NO PARKING IN MUNICIPALITY RIGHT-OF-WAY.
3. LOCATE EXCAVATED MATERIALS & TOPSOIL PILES AS DIRECTED. AT COMPLETION OF PROJECT ANY EXCESS MATERIAL IS TO BE REMOVED AND AREA MADE GOOD TO ARCHITECT'S SATISFACTION.
4. FOR TRENCHING & BACKFILLING OF ALL SERVICE LINES AND DIVISION OF RESPONSIBILITY, REFER TO APPROPRIATE SECTIONS IN SPECIFICATIONS.
5. SUPPLY AND PLACE TOPSOIL TO THICKNESS SPECIFIED OVER ALL SODDED AND PLANTER AREAS INDICATED ON DRAWINGS. PROVIDE ADDITIONAL TOPSOIL AS REQUIRED OVER AND ABOVE TOPSOIL TAKEN FROM SITE. PROVIDE SODDING TO AREAS INDICATED AND TERMINATE AT 'EXTENT OF CONTRACT' LINE. EXTEND SODDING BEYOND PROPERTY LINES TO ROADWAYS WHERE INDICATED.
6. NOTE THAT EXACT LOCATIONS OF ALL NEW MECHANICAL & ELECTRICAL ITEMS ARE APPROXIMATE UNLESS DIMENSION GIVEN. ADJUST LOCATION AS REQUIRED AND AS APPROVED BY CONSULTANT TO SUIT SITE CONDITIONS.
7. NOTE THAT ALL MECHANICAL AND ELECTRICAL UNDERGROUND SERVICE LINES INDICATED ON DRAWINGS ARE APPROXIMATE ONLY AND ARE INDICATED AS ACCURATELY AS POSSIBLE FROM INFORMATION SUPPLIED. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING EXACT TYPES, LOCATIONS AND DEPTHS OF ALL UNDERGROUND SERVICES IN AREA OF NEW CONSTRUCTION INCLUDING GAS LINES, TELEPHONE, CABLE TV, ETC. AND VERIFY THEIR LOCATION WITH THE APPROPRIATE AUTHORITIES BEFORE EXCAVATING.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ADEQUATE RECORDS OF CONSTRUCTION TO FACILITATE AS-CONSTRUCTED DRAWINGS.
9. REFER TO CIVIL DRAWINGS FOR SITE SERVICING AND GRADING, EROSION AND SEDIMENT CONTROL, STORM WATER MANAGEMENT AND DRAINAGE, AND ANY OTHER RELATED WORKS.
10. REFER TO LANDSCAPE DRAWINGS FOR PLANTING, SODDING, TREE AND SHRUB LAYOUT / SCHEDULE (INCLUDING PRESERVATION AND REMOVALS), PAVER LAYOUTS, SITE AMENITIES, AND ANY OTHER RELATED WORKS.
11. REFER TO M&E DRAWINGS FOR SITE LIGHTING / POWER, CISTERNS, AND ANY OTHER RELATED WORKS.
12. CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF ALL DRAWINGS FROM ALL DISCIPLINES. ALL DIMENSIONS ARE TO BE CHECKED AND VERIFIED ON THE JOB. ANY DISCREPANCIES ARE TO BE REPORTED TO THE CONSULTANT. ALL DRAWINGS REMAIN THE PROPERTY OF THE CONSULTANT. ONLY LATEST APPROVED DRAWINGS ARE TO BE USED FOR CONSTRUCTION.



ITEM	ONTARIO BUILDING CODE DATA MATRIX PARTS 3 & 9		OBC REFERENCE
1	PROJECT DESCRIPTION	☐ NEW ■ ADDITION ■ ALTERATION ☐ CHANGE OF USE	☐ PART 3
2	MAJOR OCCUPANCY(S)	A2 ELEMENTARY SCHOOL	3.2.2.26
3	BUILDING AREA (m²)	NEW (ADDITION) = 1209.42 sq.m EXISTING = 2808.12 sq.m	1.1.3.2.
4	GROSS AREA (m²)	NEW (ADDITION) = 1969.52 sq.m EXISTING = 2808.12 sq.m	1.1.3.2.
5	NUMBER OF STOREYS	2 STOREY	3.2.1.1. & 1.1.3.2.
6	HEIGHT OF BUILDING (m)	8.6m	
7	NUMBER OF STREETS/ACCESS ROUTES	1 STREET	3.2.2.10. & 3.2.5.5.
8	BUILDING CLASSIFICATION	GROUP 'A' DIVISION 2, UP TO 2 STOREYS, INCREASED AREA, SPRINKLERED	3.2.2.26
9	SPRINKLER SYSTEM PROPOSED	☐ ENTIRE BUILDING ☐ IN LIEU OF ROOF RATING ■ ADDITION ☐ NOT REQUIRED	3.2.2.26
10	STANDPIPE REQUIRED	☐ YES ■ NO	3.2.9.
11	FIRE ALARM REQUIRED	■ YES ☐ NO	3.2.4.
12	WATER SERVICE/SUPPLY IS ADEQUATE	■ YES ☐ NO	3.2.5.7.
13	HIGH BUILDING	☐ YES ■ NO	3.2.6.
14	PERMITTED CONSTRUCTION ACTUAL CONSTRUCTION	☐ COMBUSTIBLE ☐ NON- COMBUSTIBLE ■ BOTH ☐ COMBUSTIBLE ■ NON- COMBUSTIBLE ☐ BOTH	3.2.2.26
15	MEZZANINE(S) AREA (m²)	NA	3.2.1.1.
16	OCCUPANT LOAD BASED ON	☐ m² / PERSON ■ DESIGN OF BUILDING	3.1.17.
17	BARRIER FREE DESIGN	■ YES ☐ NO (EXPLAIN)	3.8.
18	HAZARDOUS SUBSTANCES	■ YES ☐ NO	M.2.1.2(1) & 3.3.1.19(1)
19	REQUIRED FIRE RESISTANCE RATING (FRR)	FLOOR ASSEMBLIES 45 MIN LOAD BEARING WALLS & COLUMNS 45 MIN ROOF RATING NA	3.2.2.26
20	SPATIAL SEPARATION	South Side New Addition Unprotected openings 55.7sq.m, limiting distance 8.2m = 100% openings	3.2.3.

OCCUPANT LOAD CALCULATION (per OBC table 3.1.17.1)

PROPOSED SCHOOL ADDITION

FIRST FLOOR	ROOM	ROOM AREA	TOTAL AREA	OCCUPANT LOAD
CONCURRENT	EDUCATION	(5 CLASSROOMS)	348 m²	348/1.85 = 188.11
	ADMIN	(1 RESOURCE)	29 m²	29/9.3 = 3.12
	UTILITY	(1 IT + 1 SER. + 1 SPRIN. + 2 STOR. + 1 MACH. + 1 MECH)	87 m²	87/46 = 2.44
		TOTAL OCCUPANT LOAD FIRST FLOOR		193.67
NON-CONCURRENT	GYMNASIUM / CHANGE ROOMS	(GYM + CHANGE ROOMS)	453 m²	453/.75 = 604.00
		TOTAL MAX. EXIT LOAD FIRST FLOOR		797.67
SECOND FLOOR				
CONCURRENT	EDUCATION	(5 CLASSROOMS)	348 m²	348/1.85 = 188.11
	ADMIN	(1 RESOURCE)	59 m²	59/9.3 = 6.34
	UTILITY	(1 ELEC. / 1 HK / 1 MECH. / 1 SERVICE.)	51 m²	51/46 = 1.11
		TOTAL OCCUPANT LOAD SECOND FLOOR		195.56
		TOTAL MAX. EXIT LOAD SECOND FLOOR		195.56
		GRAND TOTAL OCCUPANT LOAD (FIRST FLOOR + SECOND FLOOR)		389.23

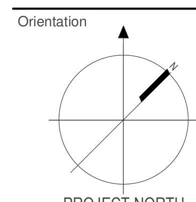
PROJECT STATISTICS		REQUIRED	PROVIDED
ZONING		INS-1 INSTITUTIONAL ZONE	INS-1 INSTITUTIONAL ZONE
TOTAL LOT AREA			31820 m² (3.182 ha)
TOTAL BUILDING COVERAGE (Addition + Existing)			4777.6m² (14.99%)
TOTAL ASPHALT AREA (Addition)			902.87 m² (0.09 ha)
TOTAL CONCRETE AREA - Side Walks (Addition)			37.45 m² (0.003 ha)
TOTAL HARDSCAPE AREA - Existing & Addition			7067.99 m² (22.2%)
TOTAL LANDSCAPE AREA - Existing & Addition			19987.82 m² (62.81%)
TOTAL GROSS FLOOR AREA - Addition			1969.52 m²
BUILDING DEMOLITION & ADDITION:			LEVEL 1 = 2086.16 sq ft
TOTAL AREA OF ADDITION AND DEMOLISHED AREA FOR ADDITION			LEVEL 1 = 14830.78 sq ft LEVEL 2 = 9485.26 sq ft
TOTAL AREA COMBINED			24,316.04 sq ft
INTERIOR RENOVATION			3042.46 sq ft
BUILDING TO PROPERTY SETBACKS			
FRONT (NORTH)	Zoning By-law No. #051-2019, Sect. 11.3	6.0 m min.	18.443 m
REAR (SOUTH)	Zoning By-law No. #051-2019, Sect. 11.3	7.5 m min.	89.89 m
SIDE (EAST)	Zoning By-law No. #051-2019, Sect. 11.3	3 m min.	8.53 m
SIDE (WEST)	Zoning By-law No. #051-2019, Sect. 11.3	7.5 m min.	88.93 m
MAXIMUM BUILDING HEIGHT		14 m	8.6 m
TOTAL PARKING			74
EXISTING PARKING SPACES			60
EXISTING PARKING SPACES LOST IN DEVELOPMENT			0
NEW PARKING SPACES Minimum dimensions of parking = 2.6m x 5.5m Schools: Zoning By-law No. #051-2019, Sect. 5.3.1 1 space per 100 sq m = 4764.19/100 = 48 spaces		48	71
NEW BARRIER FREE PARKING SPACES Zoning By-law No. #051-2019, Sect. 5.9 4% of provided 0.04 x 71 = 3 Barrier free spaces		3	3
NEW ELECTRIC VEHICLE PARKING SPACES Zoning By-law No. #051-2019, Sect. 5.8 2.5 % of required parking 48 x 0.025 = 1 EV space		1	1
FUTURE ELECTRIC VEHICLE PARKING SPACES Zoning By-law No. #051-2019, Sect. 5.8 17.5% OF required parking 48 x 0.175 = 8 Future EV spaces		8	9
EXISTING BICYCLE PARKING SPACES			32
NEW BICYCLE PARKING SPACES	Zoning By-law No. #051-2019, Sect. 5.5		36
FLOOR SPACE RATIO			2

SITE PLAN LEGEND:

- LS — POLE MOUNTED LIGHT STANDARD AS PER ELEC. DWGs
- PROPERTY LINE / EXTENT OF CONTRACT
- PART LOT / EASEMENT LINE
- FIRE ACCESS ROUTE
- OH OH OH — EX. OVERHEAD HYDRO. REFER TO CIVIL.
- UH UH UH — EX. UNDERGROUND HYDRO. REFER TO CIVIL.
- W W W — EX. WATERMAIN. REFER TO CIVIL.
- GAS GAS GAS — EX. GAS LINE. REFER TO CIVIL.
- ST ST ST — EXISTING STORM MAIN. REFER TO CIVIL.
- UTEL UTEL UTEL — EXISTING UNDERGROUND BELL. REFER TO CIVIL.
- PROPOSED SANITARY LINE. REFER TO CIVIL.
- PROPOSED STM LINE. REFER TO CIVIL.
- PROPOSED WATER MAIN. REFER TO CIVIL.
- BENCH AS PER LANDSCAPE DWGs
- EXISTING BIKE RACK
- BIKE RACK AS PER LANDSCAPE DWGs
- MH — MANHOLE AS PER CIVIL DWGs
- CB — CATCH BASIN AS PER CIVIL DWGs
- CB/MH — CATCH BASIN / MANHOLE AS PER CIVIL DWGs
- H&V — FIRE HYDRANT AS PER CIVIL DWGs
- FH — EXISTING FIRE HYDRANT
- BOL — METAL BOLLARD
- POST MOUNTED SIGN
- BH1 — BOREHOLE LOCATION
- ASPHALT HEAVY DUTY (NEW)
- ASPHALT LIGHT DUTY (NEW)
- ASPHALT (EXISTING)
- CONCRETE PAVING / SIDEWALK (NEW)
- CONCRETE PAVING / SIDEWALK (EXISTING)
- PROPOSED SOD
- EXISTING BUILDING
- NEW BUILDING
- EXISTING TREES BEYOND 6m OF THE AREA OF DISTURBANCE
- EXISTING INVENTORIED TREES TO REMAIN
- NEW TREE
- EXISTING ENTRANCE/EXIT
- NEW ENTRANCE/EXIT
- EXTERIOR BASKETBALL NET

No.	Revision	Date
6	Issued for Permit Resubmission & Tender	2026-04-20
5	Issued for Site Plan Resubmission	2026-03-30
4	Issued for Permit Resubmission	2026-01-26
3	Issued for Permit	2025-09-15
2	Issued for Costing	2025-09-08
1	Issued for Site Plan Application	2025-08-07

Orientation



Seal

ONTARIO ASSOCIATION OF ARCHITECTS
RYAN STITT
LICENCE
7583

All dimensions to be checked and verified on the job by the Contractor. Any discrepancies are to be reported to the Consultant prior to action. Only the latest approved drawings to be used for construction in conformance with all applicable codes, by-laws and regulations. All drawings remain the property of the Consultant.

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salterpilon.com t: 705.737.3530

Project Information

WCDSB St. Paul C.E.S. Addition & Renovation

45 Birchcliff Avenue, Kitchener, ON N2M 4V7

For
Waterloo Catholic District School Board

Drawing Title

Site Plan

Date	2026-04-20	Project No	Drawing No
Drawn by	SP	25012	A101
Scale	As indicated		

1 A101 Site Plan
1 : 300

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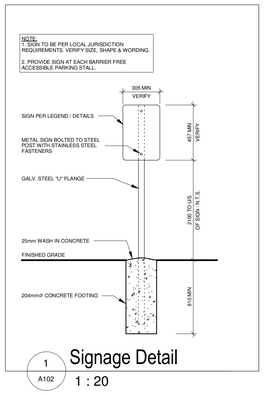

1 A102 Signature Detail
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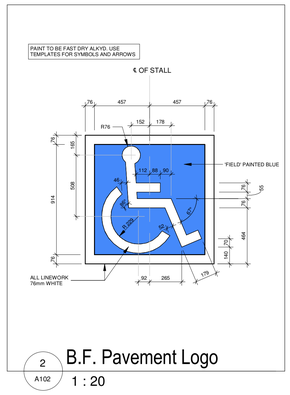

2 A102 B.F. Pavement Logo
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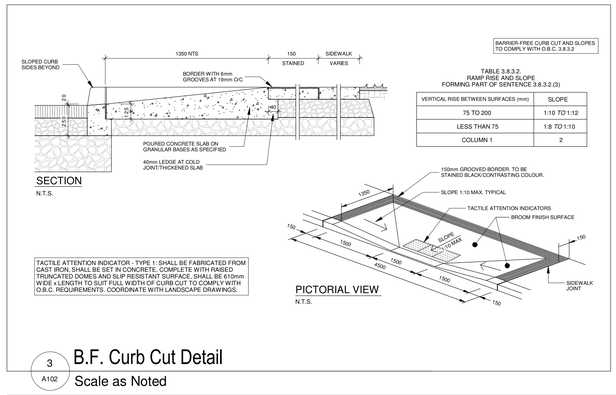
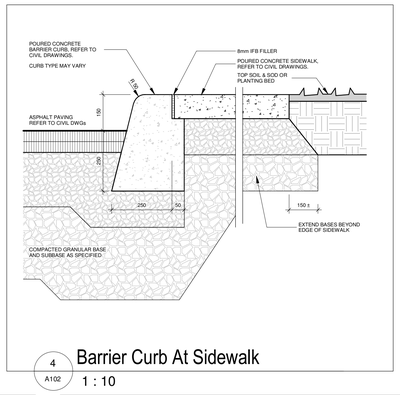
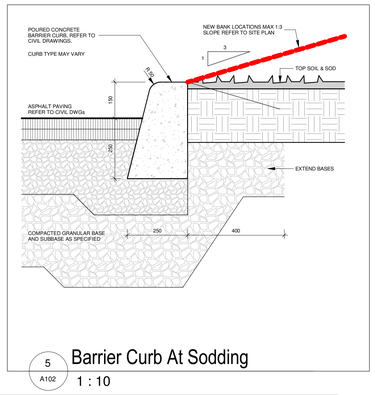


3 A102 B.F. Curb Cut Detail
Scale as Noted



4 A102 Barrier Curb At Sidewalk
1 : 10



5 A102 Barrier Curb At Sodding
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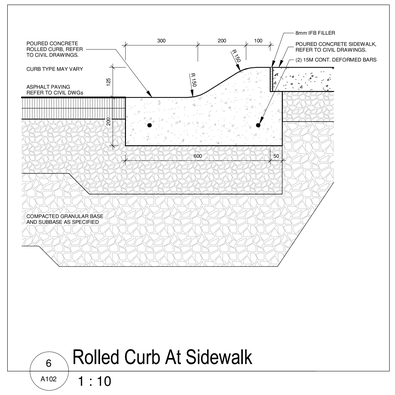
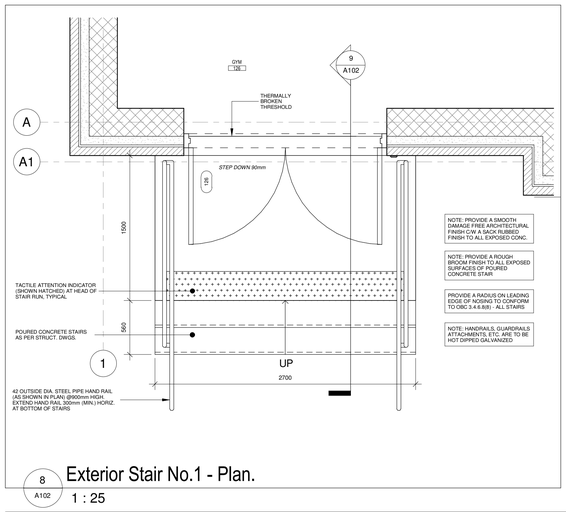
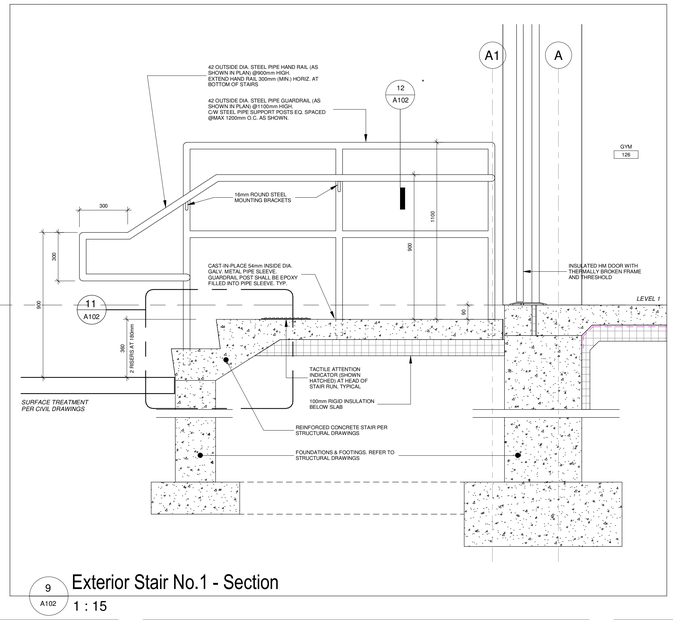


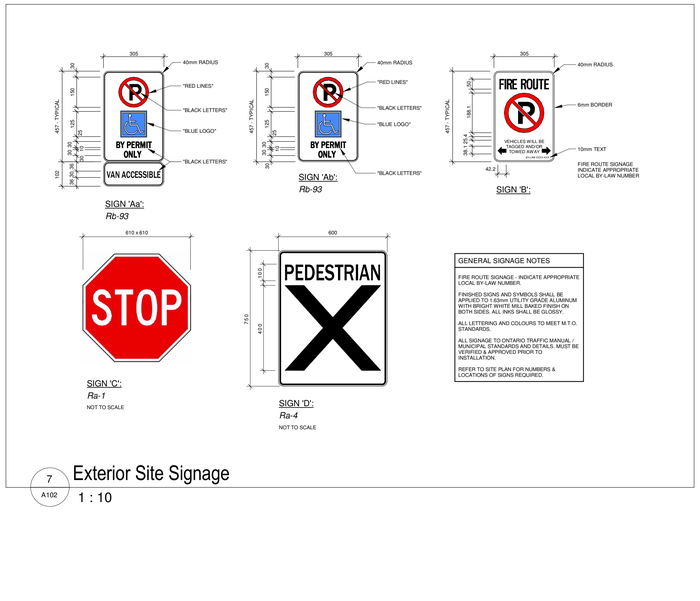
6 A102 Rolled Curb At Sidewalk
1 : 10



8 A102 Exterior Stair No.1 - Plan.
1 : 25



9 A102 Exterior Stair No.1 - Section
1 : 15



7 A102 Exterior Site Signage
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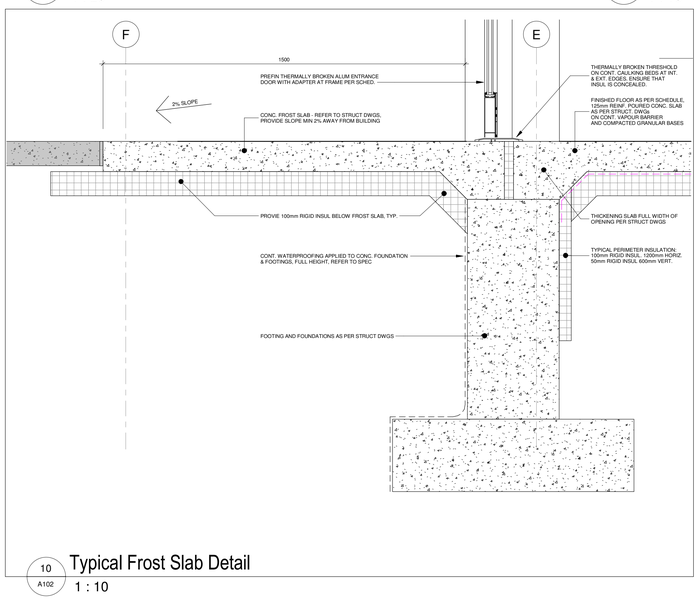
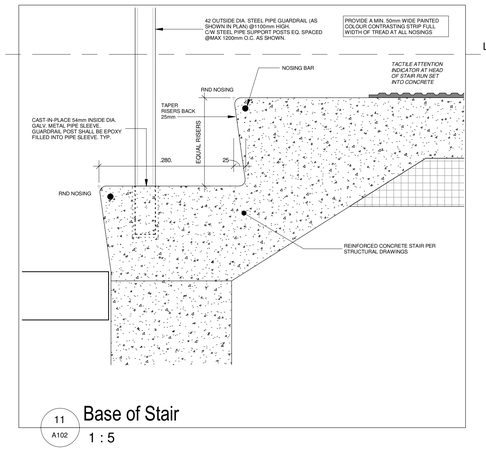
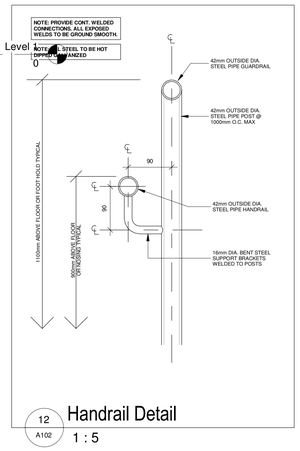


10 A102 Typical Frost Slab Detail
1 : 10



11 A102 Base of Stair
1 : 5



12 A102 Handrail Detail
1 : 5

No.	Revision	Date
6	Issued for Permit Resubmission & Tender	2026-04-20
5	Issued for Site Plan Resubmission	2026-03-30
4	Issued for Permit Resubmission	2026-01-26
3	Issued for Permit	2025-09-15
2	Issued for Costing	2025-09-08
1	Issued for Site Plan Application	2025-08-07

Orientation

Seal

ONTARIO ASSOCIATION OF ARCHITECTS
RYAN STITT
LICENCE
7583

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151 Ferris Lane, Suite 400 Barrie, Ontario L4M 6C1
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Project Information

WCDSB St. Paul C.E.S. Addition & Renovation

45 Birchcliff Avenue, Kitchener, ON N2M 4V7

For
Waterloo Catholic District School Board

Drawing Title

Site Plan Details

Date	2026-04-20	Project No	Drawing No
Drawn by	SP	25012	A102
Scale	As indicated		

Autodesk Docs://25012 - St Paul CES/25012 - WCDSB St Paul Addition Cloud_R24.rvt
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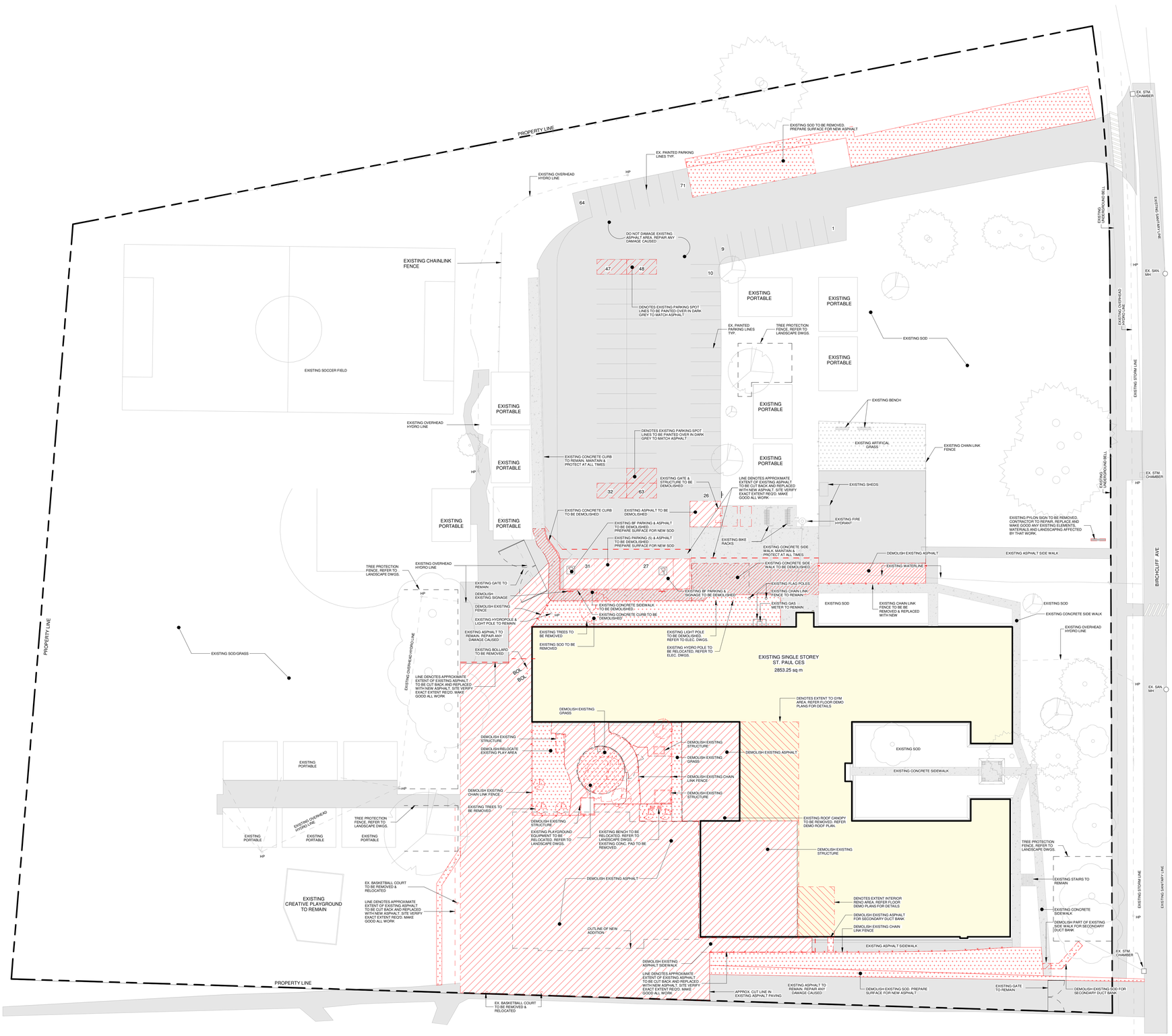

1 A104 Site Plan Option 1 Demo

1 : 300

DEMOLITION SITE PLAN LEGEND:

- PROPERTY LINE / EXTENT OF CONTRACT
- PART LOT / EASEMENT LINE
- FIRE ACCESS ROUTE
- DEMOLITION ASPHALT AND CONCRETE
- LS — POLE MOUNTED LIGHT STANDARD AS PER ELEC. DWGs
- MH — MANHOLE AS PER CIVIL DWGs
- CB — CATCH BASIN AS PER CIVIL DWGs
- CB MH — CATCH BASIN/MANHOLE AS PER CIVIL DWGs
- BOL — METAL BOLLARD
- POST MOUNTED SIGN
- BCC — BARRIER FREE CUT CURB
- B.F. ENTRANCE/EXIT
- ENTRANCE/EXIT
- EXISTING ASPHALT
- EXISTING CONCRETE PAVING / SIDEWALK
- EXISTING LANDSCAPE
- EXISTING HEAVY DUTY ASPHALT PAVEMENT TO BE REMOVED
- EXISTING CONCRETE PAVING / SIDEWALK TO BE REMOVED
- EXISTING GRASS / SOD /SOFT SCAPING TO BE REMOVED
- EXISTING TREES TO REMAIN
- EXISTING TREES TO BE REMOVED

No.	Revision	Date
6	Issued for Permit Resubmission & Tender	2026-04-20
5	Issued for Site Plan Resubmission	2026-03-30
4	Issued for Permit Resubmission	2026-01-26
3	Issued for Permit	2025-09-15
2	Issued for Costing	2025-09-08
1	Issued for Site Plan Application	2025-08-07

Orientation

PROJECT NORTH

Seal

ONTARIO ASSOCIATION OF ARCHITECTS
RYAN STITT
LICENCE
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Project Information

WCDSB St. Paul C.E.S. Addition & Renovation

45 Birchcliff Avenue, Kitchener, ON N2M 4V7

For

Waterloo Catholic District School Board

Drawing Title

Site Plan Demolition

Date	2026-04-20	Project No	Drawing No
Drawn by	SP	25012	A104
Scale	1 : 300		

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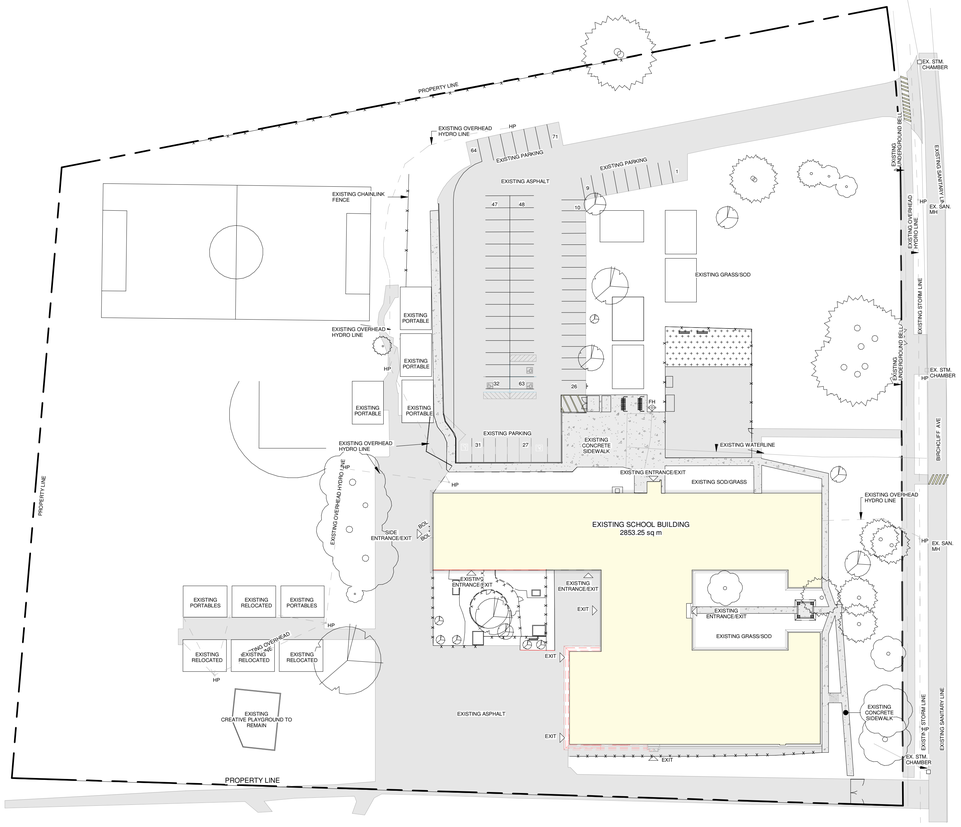
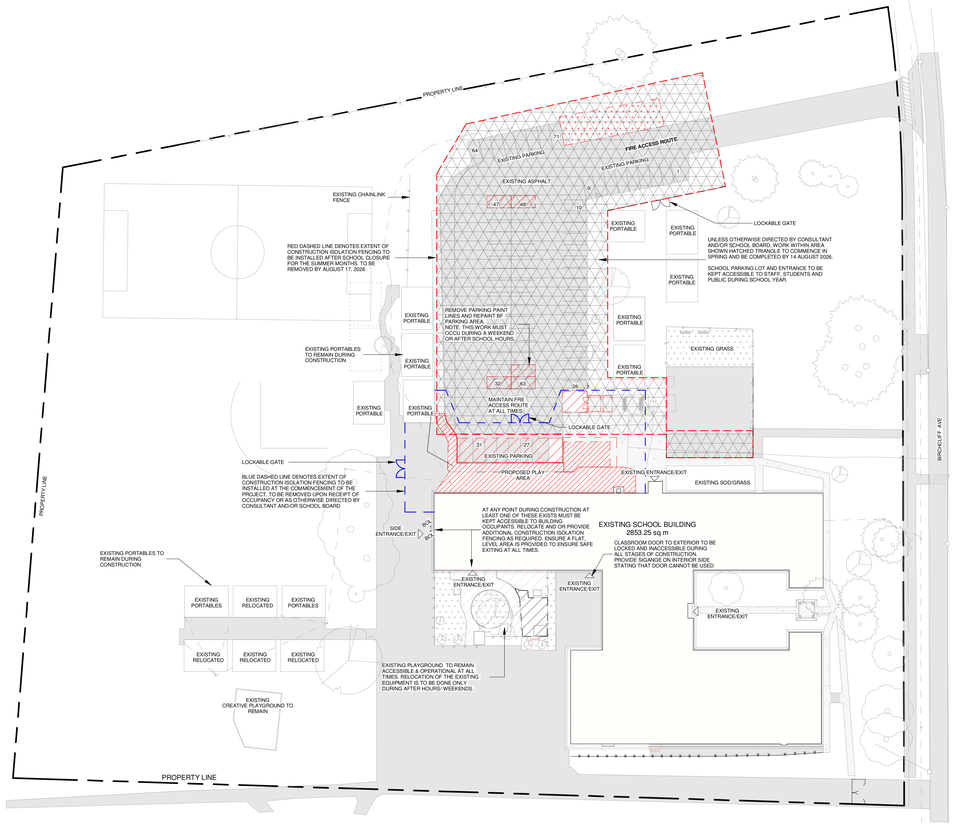


1 A105 Site Plan Existing
1 : 550



2 A105 Site Plan Phase 1A
1 : 550

UNLESS OTHERWISE DIRECTED BY CONSULTANT AND/OR SCHOOL BOARD, WORK WITHIN AREA SHOWN HATCHED TRIANGLE TO COMMENCE IN SPRING AND BE COMPLETED BY 14 AUGUST 2026.

NOTE: DETAIL IS SCHEMATIC ONLY. CONTRACTOR TO OBTAIN APPROVAL OF EXACT LOCATION AND EXTENT OF FENCING AND HOARDING AREA BY THE OWNER AND CONSULTANT PRIOR TO INSTALLATION.

NOTE: REVISIONS TO FENCING LOCATIONS WILL BE REQUIRED ON AN AS NEEDED BASIS DURING CONSTRUCTION.

NOTE: ALL DISTURBED SURFACES AND MATERIALS TO BE RESTORED TO EXISTING CONDITION OR BETTER UPON COMPLETION OF WORK.

NOTE: ALL DISTURBED SURFACES AND MATERIALS TO BE RESTORED TO EXISTING CONDITION OR BETTER UPON COMPLETION OF WORK.

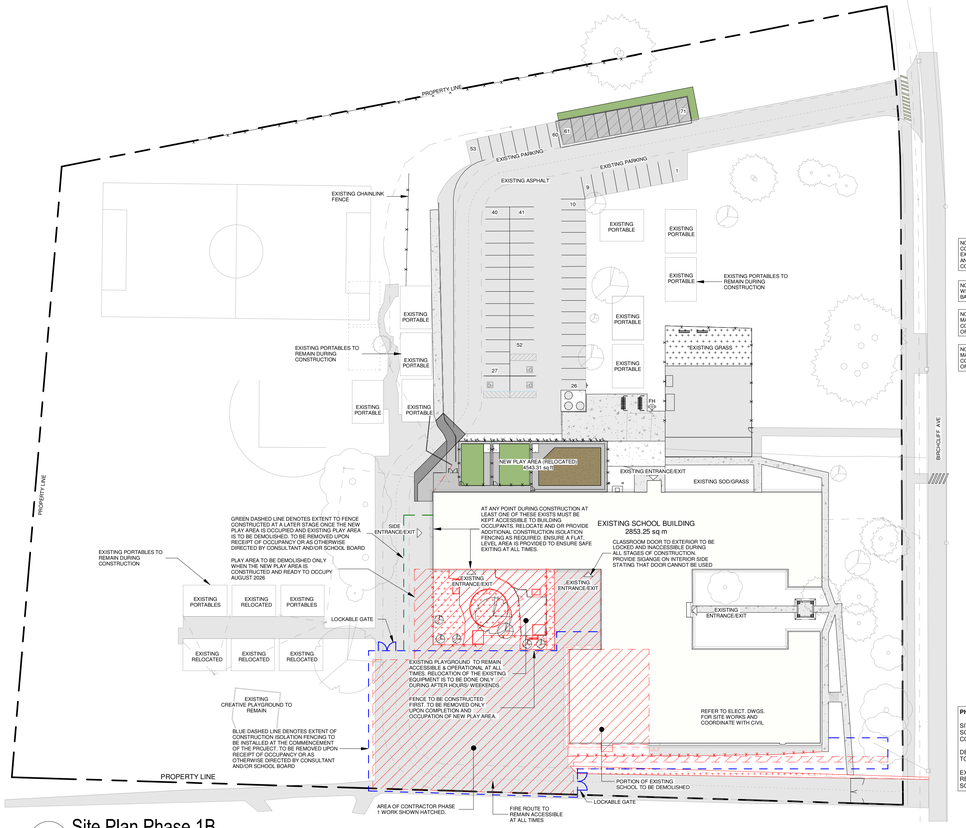
PHASE 1A:

SITE WORKS TO COMMENCE SPRING OF 2026

SITE WORKS & ADDITION OF NEW PARKING AREA

CLEARING SITE FOR PROPOSED NEW PARKING ADDITION & RELOCATION OF PLAY AREA

CHILDCARE TO REMAIN OPERATIONAL DURING THE SUMMER. PLAY AREA TO BE ACCESSIBLE AT ALL TIMES.



5 A105 Site Plan Phase 1B
1 : 550

NOTE: DETAIL IS SCHEMATIC ONLY. CONTRACTOR TO OBTAIN APPROVAL OF EXACT LOCATION AND EXTENT OF FENCING AND HOARDING AREA BY THE OWNER AND CONSULTANT PRIOR TO INSTALLATION.

NOTE: REVISIONS TO FENCING LOCATIONS WILL BE REQUIRED ON AN AS NEEDED BASIS DURING CONSTRUCTION.

NOTE: ALL DISTURBED SURFACES AND MATERIALS TO BE RESTORED TO EXISTING CONDITION OR BETTER UPON COMPLETION OF WORK.

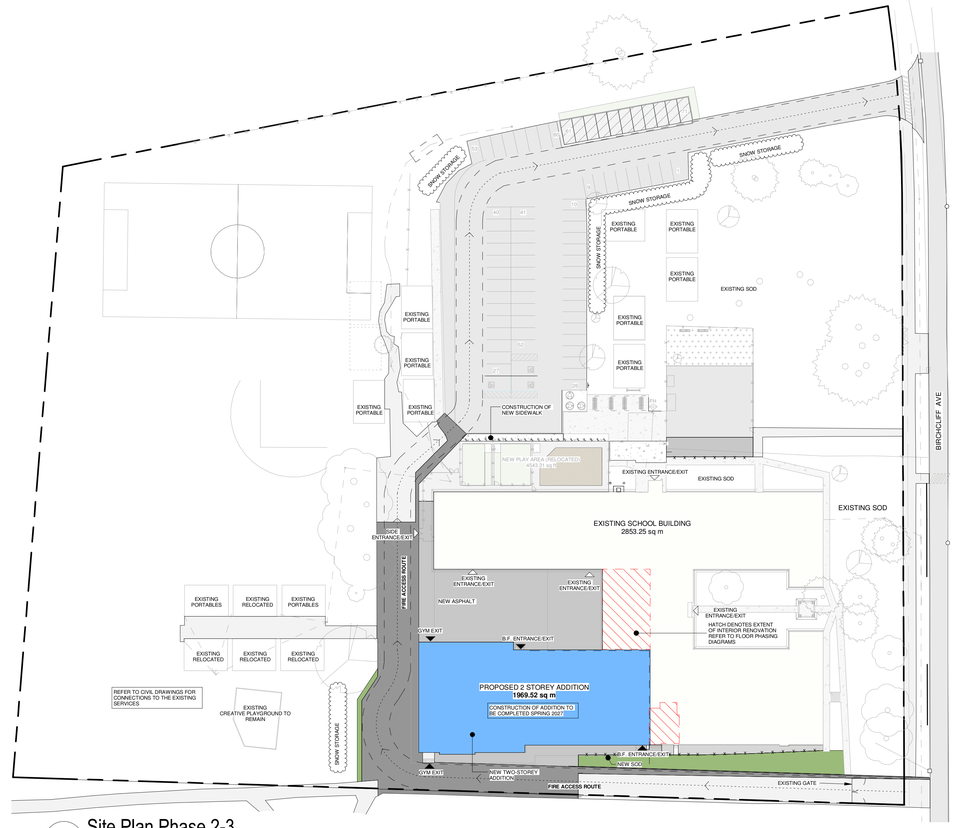
NOTE: ALL DISTURBED SURFACES AND MATERIALS TO BE RESTORED TO EXISTING CONDITION OR BETTER UPON COMPLETION OF WORK.

PHASE 1B:

SITE WORKS TO COMMENCE END OF SCHOOL YEAR JULY 2026 AND TO BE COMPLETED 14 AUGUST 2026.

DEMOLITION OF THE EXISTING BUILDING TO COMMENCE JULY 2026

EXISTING SCHOOL AND PORTABLES TO REMAIN OPERATIONAL DURING THE SCHOOL YEAR 2026/2027



4 A105 Site Plan Phase 2-3
1 : 550

PHASE 2:

CONSTRUCTION OF ADDITION. REFER TO FLOOR PHASING

PHASE 3:

INTERIOR RENOVATION TO COMMENCE ONLY AFTER ADDITION ACHIEVES OCCUPANCY

No.	Revision	Date
6	Issued for Permit Resubmission & Tender	2026-04-20
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Orientation

PROJECT NORTH

Seal

ONTARIO ASSOCIATION OF ARCHITECTS
IVAN STITT
LICENCE
7983

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Project Information

WCDSB St. Paul C.E.S. Addition & Renovation

45 Birchcliff Avenue, Kitchener, ON N2M 4V7

For

Waterloo Catholic District School Board

Drawing Title

Site Phasing & Construction Management

Date	2026-04-20	Project No	Drawing No
Drawn by	SP, FP	25012	A105
Scale	1 : 550		

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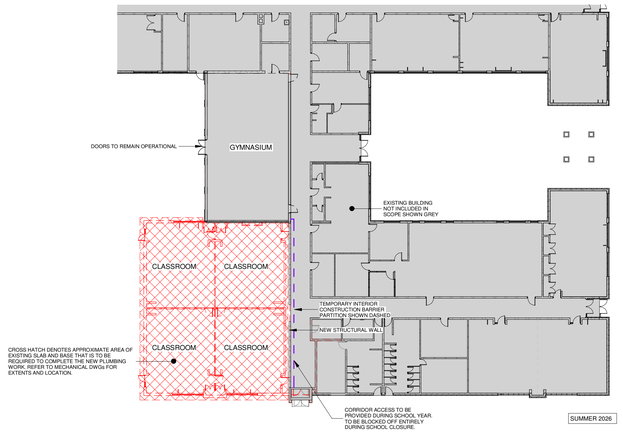
4/20/2026 11:30:55 AM

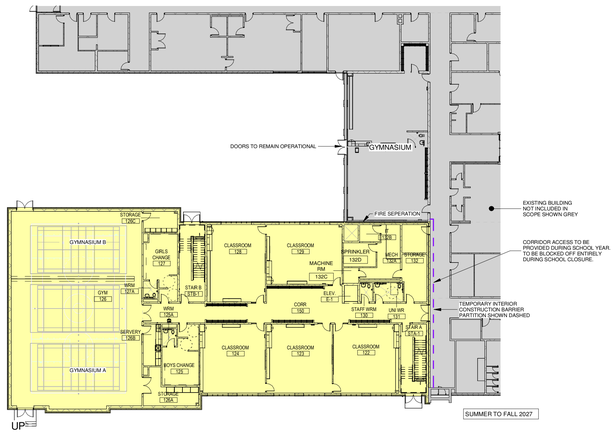
1 A106 Level 1 Floor Plan - Phase 1A

1 : 300



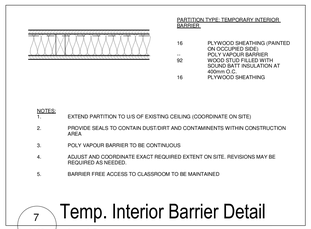
4 A106 Level 1 Floor Plan - Phase 1B

1 : 300



2 A106 Level 1 Floor Plan - Phase 2A

1 : 300



PARTITION TYPE: TEMPORARY INTERIOR MARKER

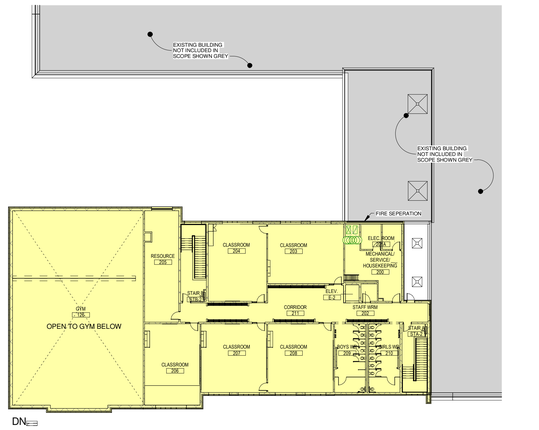
16	PLYWOOD SHEATHING (PAINTED ON OCCUPIED SIDE)
..	POLY VAPOUR BARRIER
92	WOOD STUD FILLED WITH ROCKWOOL CT INSULATION AT 400mm O.C.
16	PLYWOOD SHEATHING

NOTES:

1. EXTEND PARTITION TO U/S OF EXISTING CEILING (COORDINATE ON SITE)
2. PROVIDE SEALS TO CONTAIN DUST/DIRT AND CONTAMINENTS WITHIN CONSTRUCTION AREA
3. POLY VAPOUR BARRIER TO BE CONTINUOUS
4. ADJUST AND COORDINATE EXACT REQUIRED EXTENT ON SITE. REVISIONS MAY BE REQUIRED AS NEEDED.
5. BARRIER FREE ACCESS TO CLASSROOM TO BE MAINTAINED

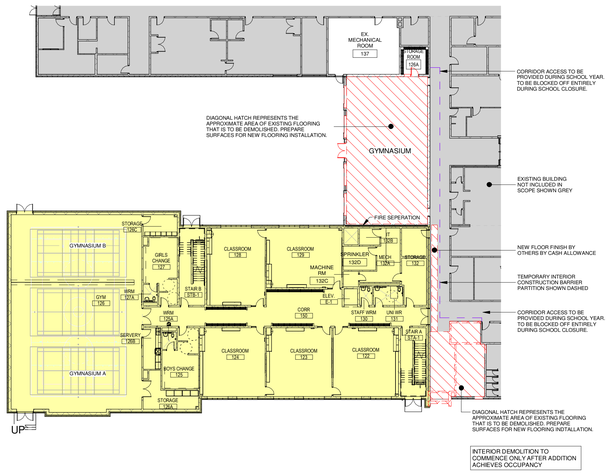
7 A106 Temp. Interior Barrier Detail

1 : 10



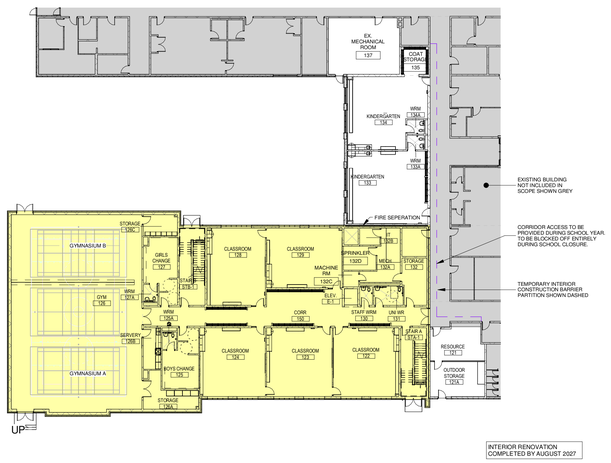
3 A106 Level 2 Floor Plan - Phase 2B

1 : 300



5 A106 Level 1 Floor Plan - Phase 3A

1 : 300



6 A106 Level 1 Floor Plan - Phase 3B

1 : 300

No.	Revision	Date
6	Issued for Permit Resubmission & Tender	2026-04-20
5	Issued for Site Plan Resubmission	2026-03-30
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Orientation

PROJECT NORTH

Seal

ONTARIO ASSOCIATION OF ARCHITECTS
RYAN STITT
LICENCE
7583

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Project Information

WCDSB St. Paul C.E.S. Addition & Renovation

45 Birchcliff Avenue, Kitchener, ON N2M 4V7

For

Waterloo Catholic District School Board

Drawing Title

Floor Plan Phasing Diagram

Date	2026-04-20	Project No	Drawing No
Drawn by	SP, FP	25012	A106
Scale	As indicated		

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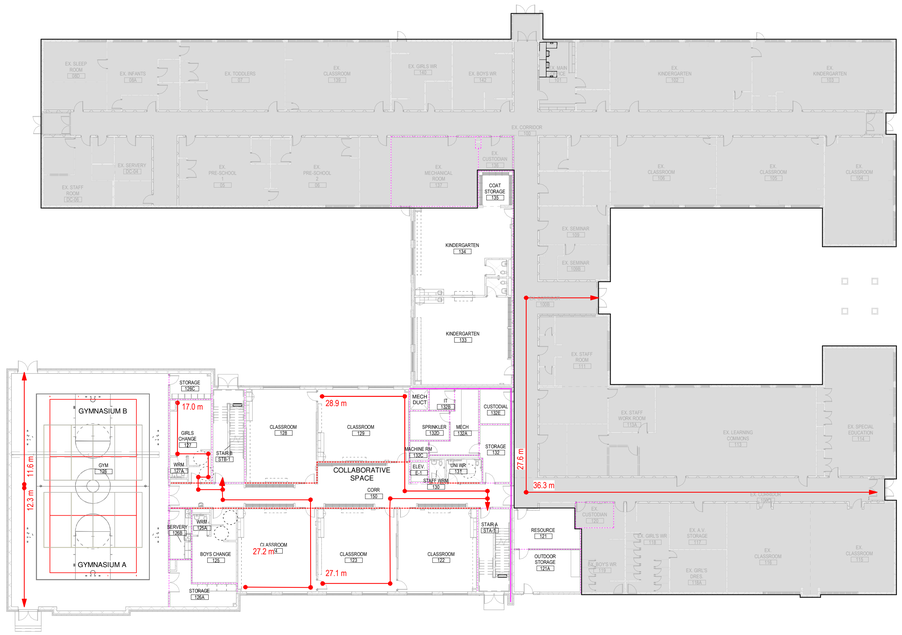
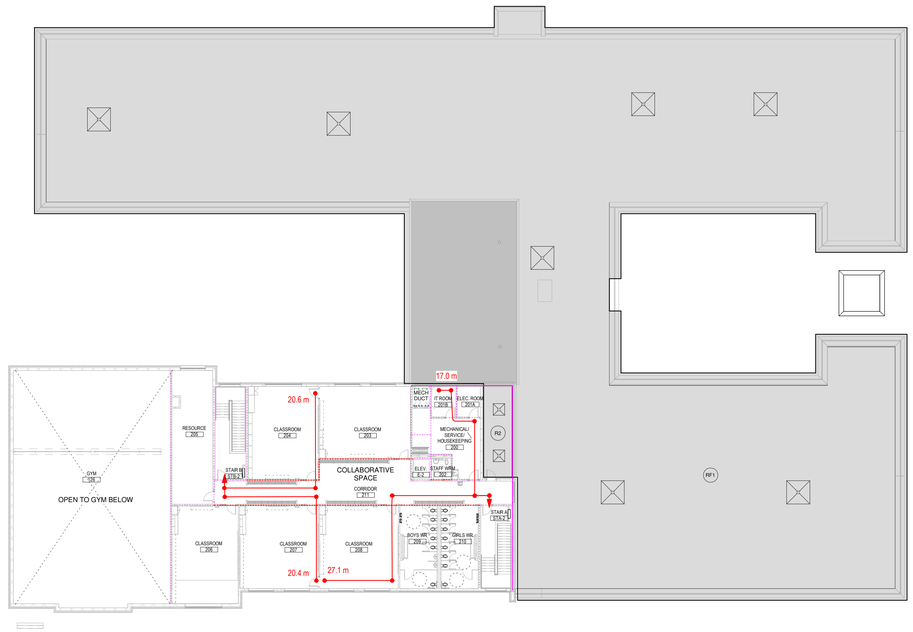


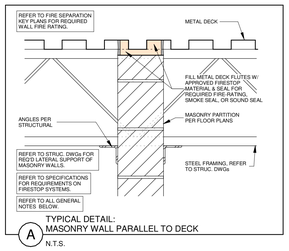
1 A200 Level 1 Floor Plan Fire Separation

1 : 250



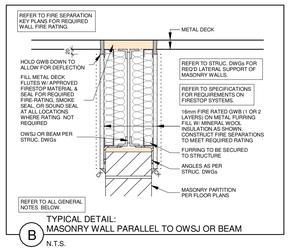
2 A200 Level 2 Floor Plan Fire Separation

1 : 250



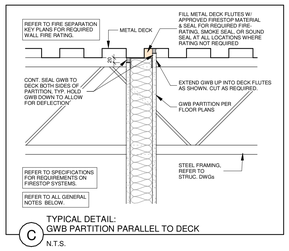
A TYPICAL DETAIL: MASONRY WALL PARALLEL TO DECK

N.T.S.



B TYPICAL DETAIL: MASONRY WALL PARALLEL TO OWSJ OR BEAM

N.T.S.



C TYPICAL DETAIL: GWB PARTITION PARALLEL TO DECK

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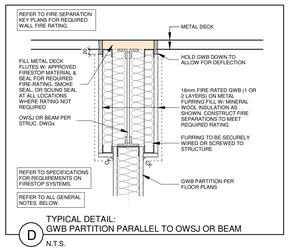

D TYPICAL DETAIL: GWB PARTITION PARALLEL TO OWSJ OR BEAM

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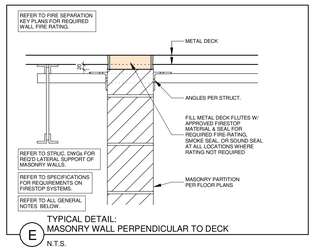

E TYPICAL DETAIL: MASONRY WALL PERPENDICULAR TO DECK

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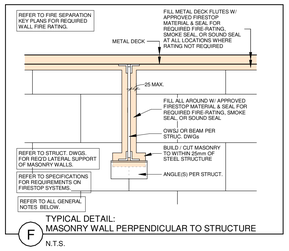
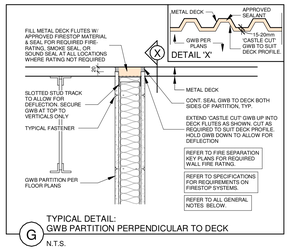


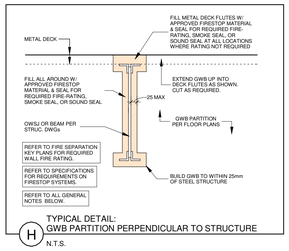
F TYPICAL DETAIL: MASONRY WALL PERPENDICULAR TO STRUCTURE

N.T.S.



G TYPICAL DETAIL: GWB PARTITION PERPENDICULAR TO DECK

N.T.S.



H TYPICAL DETAIL: GWB PARTITION PERPENDICULAR TO STRUCTURE

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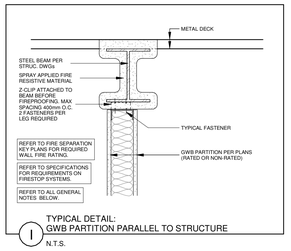
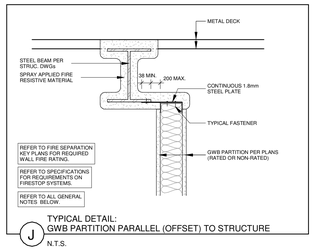


I TYPICAL DETAIL: GWB PARTITION PARALLEL TO STRUCTURE

N.T.S.



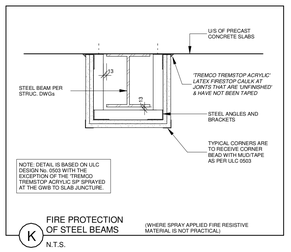
J TYPICAL DETAIL: GWB PARTITION PARALLEL (OFFSET) TO STRUCTURE

N.T.S.

GENERAL NOTES:

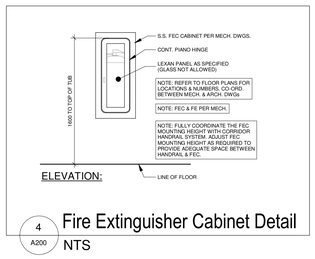
1. - THESE DETAILS SHALL APPLY TO ALL WALLS THAT FORM ANY PART OF A RATED AND NON-RATED FIRE SEPARATION, AND ALL WALLS THAT REQUIRE ACOUSTIC PERFORMANCE. THESE DETAILS SHALL ALSO APPLY TO ALL OTHER WALLS THAT DO NOT FORM A REQUIRED FIRE SEPARATION OR ACOUSTIC PARTITION. IN THE INSTANCE WHERE WALLS NOT REQUIRED TO HAVE FIRE RATINGS OR ACOUSTIC PERFORMANCES ARE EXPOSED TO VIEW (IE. NO CEILINGS) PROVIDE ACOUSTIC SEALANT IN LIEU OF FIRE STOPPING. IN THE INSTANCE WHERE WALLS NOT REQUIRED TO HAVE FIRE RATINGS OR ACOUSTIC PERFORMANCES ARE CONCEALED (IE. ABOVE SUSPENDED CEILINGS) ACOUSTIC SEALANT CAN BE OMITTED.

2. - THESE ABOVE DETAILS SHALL ALSO APPLY TO CONDITIONS WHERE THE FLOOR STRUCTURE IS CONSTRUCTED OF PRECAST AND/OR CAST-IN-PLACE CONCRETE. THE ABOVE DETAILS AND CONDITIONS ARE SIMILARLY APPLICABLE TO SEVERAL CONSTRUCTION TYPES, AND WALLS SHALL BE CONSTRUCTED TO MAINTAIN THE SAME LEVEL OF FIRE PROTECTION OR ACOUSTIC PERFORMANCE VALUE AS DETAILED AND REQUIRED BY THE OBC.



K N.T.S. FIRE PROTECTION OF STEEL BEAMS

(WHERE SPRAY APPLIED FIRE RESISTIVE MATERIAL IS NOT PRACTICAL)



4 A200 Fire Extinguisher Cabinet Detail

NTS

FIRE SEPARATION LEGEND

- 0 HR (SMOKE SEPARATION)
- 1/2 HR (FIRE SEPARATION)
- 3/4 HR (FIRE SEPARATION)
- 1 HR (FIRE SEPARATION)
- 2 HR (FIRE WALL)
- 45.0m TRAVEL DISTANCE (m)

NOTE: THE FIRE SEPERATION DRAWINGS MUST BE PLOTTED IN COLOUR

No.	Revision	Date
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2	Issued for Permit	2025-09-15
1	Issued for Costing	2025-09-08

Orientation

PROJECT NORTH

Seal

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RYAN STITT
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7583

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Project Information

WCDSB St. Paul C.E.S. Addition & Renovation

45 Birchcliff Avenue, Kitchener, ON N2M 4V7

For

Waterloo Catholic District School Board

Drawing Title

Fire Separation Plans, Typical Notes & Details

Date	2026-04-20	Project No	Drawing No
Drawn by	Author	25012	A200
Scale	As indicated		

Autodesk Docs://25012 - St Paul CES/25012 - WCDSB St Paul Addition Cloud_R24.rvt
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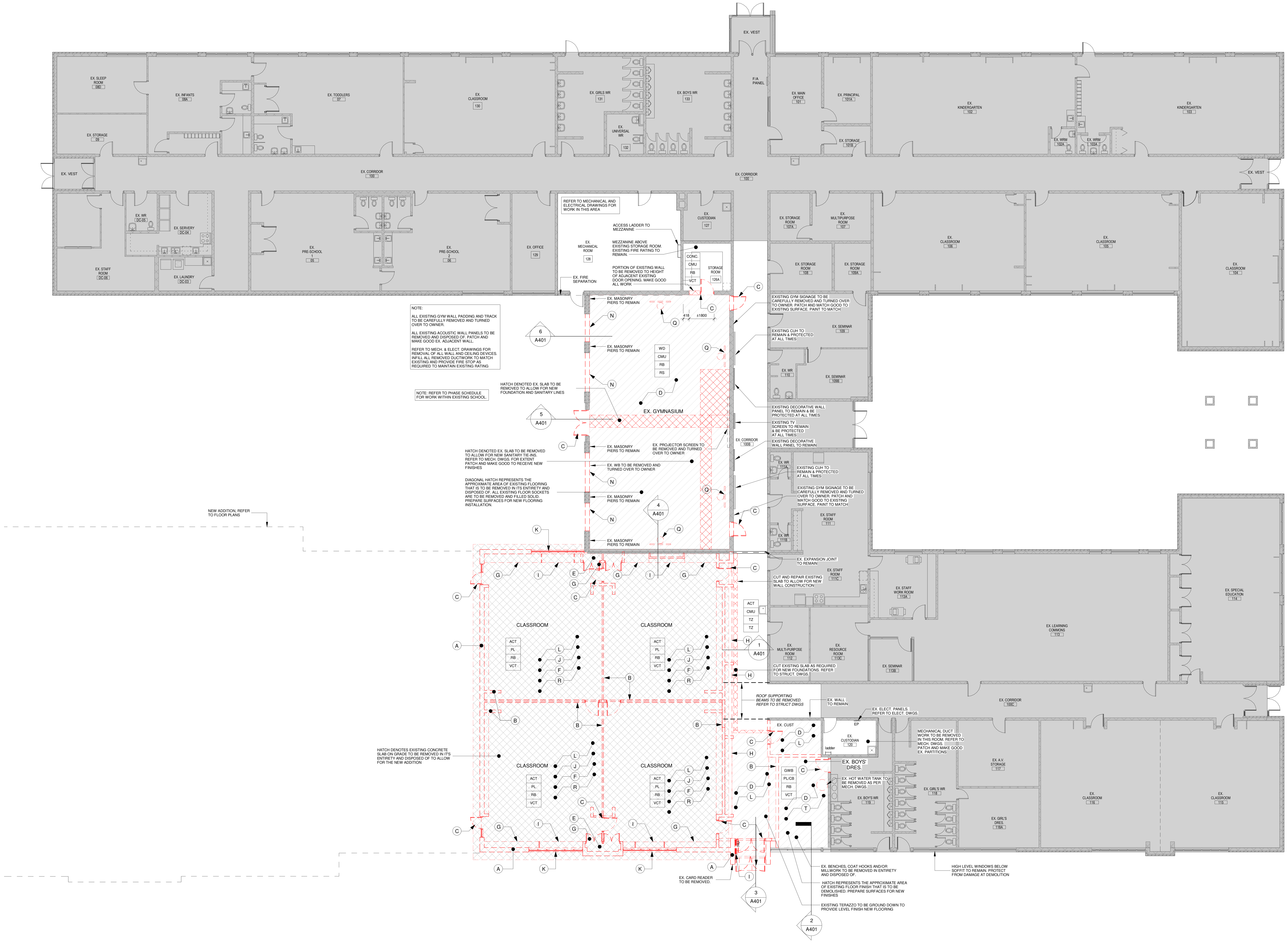

Level 1 Floor Plan - Demo

1 / A201 — 1 : 125

REMOVALS NOTES:

ALL EXISTING CEILING, WALL, FLOOR & BASE FINISHES ARE IDENTIFIED THUS AND ARE INCLUDED IN THIS LEGEND AS A GUIDE. REMOVE AND REPLACE AND FINISH ONLY THOSE FINISHES SPECIFICALLY NOTED ON DRAWINGS OR WHERE NEW MATERIALS OR FINISHES ARE SPECIFICALLY NOTED IN ROOM FINISH SCHEDULES

- XXXX - INDICATES EXISTING CEILING MATERIALS
- XXXX - INDICATES EXISTING FLOOR MATERIALS
- XXXX - INDICATES EXISTING BASE MATERIALS
- XXXX - INDICATES EXISTING WALL MATERIALS

DEMOLITION ABBREVIATIONS:

ACT	-	ACOUSTIC TILE
CPT	-	CARPET
CMU	-	CONCRETE MEASONRY UNITS
CONC	-	CONCRETE
CT	-	CERAMIC TILE
ES	-	EXPOSED STRUCTURE
EX	-	EXISTING
GWB	-	GYPSUM WALL BOARD
PL	-	PLASTER
RB	-	RUBBER BASE
RSF	-	RUBBER SHEET FLOORING
SAT	-	SPECIAL ACOUSTIC TILE
SF	-	SAFETY FLOORING
TERR	-	TERRAZZO
WD	-	WOOD
VCT	-	VINYL COMPOSITION TILE

ITEMIZED LIST OF EXISTING EQUIPMENT AND BUILDING PORTIONS TO BE REMOVED:

NOTE: THIS LIST IS PRESENTED AS A PARTIAL LIST OF EXISTING ITEMS AND IS REPRESENTATIVE ONLY OF THE NATURE AND TYPE OF ITEMS TO BE REMOVED. ADDITIONAL REMOVALS CALLED FOR, OR IMPLIED AS A RESULT OF NEW CONSTRUCTION WORK AS DETAILED, ARE TO BE CARRIED OUT AS REQUIRED. CONTRACTOR IS RESPONSIBLE FOR COMPLETE INSPECTION OF ALL EXISTING CONDITIONS TO DETERMINE THE EXTENT OF DEMOLITION AND REMOVAL NECESSARY TO COMPLETE ALL WORK TO THE INTENT OF THE DRAWINGS AND SPECIFICATIONS. REFER TO MECHANICAL & ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR INFORMATION PERTAINING TO DEMOLITION AND REMOVAL OF ALL MECHANICAL AND ELECTRICAL EQUIPMENT AND SERVICES BY OTHERS. WHERE THESE DRAWING REFER TO MECHANICAL AND ELECTRICAL DRAWINGS, THIS WORK IS BY OTHERS.

INDICATES EXISTING DOORS & FRAMES TO BE REMOVED. REPAIR & MAKE GOOD EXISTING JAMBS TO REMAIN. SEE PLANS FOR LOCATIONS.

PORTIONS OF EXISTING WALL SYSTEMS TO BE REMOVED TO EXTENT INDICATED. REMOVE FULL HEIGHT (OR AS INDICATED) & PROVIDE STRUCTURAL SUPPORT AS REQUIRED. REPAIR REMAINING ADJACENT ELEMENTS TO MATCH EXISTING. MAKE GOOD ALL WORK.

INDICATES EXISTING WINDOW & FRAME TO BE REMOVED. REPAIR & MAKE GOOD EXISTING JAMBS TO REMAIN. SEE PLANS FOR LOCATIONS.

AREA OF EXISTING CONCRETE FLOOR SLAB & STRUCTURE TO BE CUT AND REMOVED AS REQUIRED TO REMOVED/INSTALL NEW EXISTING PLUMBING. COORDINATE FULLY WITH WITH STRUCTURAL & MECHANICAL DRAWINGS. MAKE GOOD ALL WORK.

EXISTING/DEMOLITION NOTES

- (A) EXISTING BRICK TO BE CAREFULLY REMOVED AND STORED FOR PATCH OF EXISTING. EXISTING EXTERIOR WALL ASSEMBLY & FOUNDATIONS TO BE REMOVED IN ITS ENTIRETY AND DISPOSED OF. REFER TO STRUCT. DWGS. FOR TEMPORARY SUPPORT OF EXISTING ROOF FRAMING THAT IS REMAIN.
- (B) EXISTING INTERIOR WALL ASSEMBLY TO BE REMOVED IN ITS ENTIRETY AS SHOWN AND DISPOSED OF. REFER TO NEW FLOOR PLANS FOR EXTENT
- (C) EXISTING DOOR & FRAME TO BE REMOVED IN ITS ENTIRETY AND DISPOSED OF. MAKE GOOD EXISTING SURFACES AS INDICATED ON FLOOR PLAN.
- (D) EXISTING CONCRETE SLAB TO REMAIN. PATCH AND MAKE GOOD AND LEVEL TO RECEIVED NEW FLOOR FINISH AS PER COLOUR AND MATERIAL SCHEDULE. REMOVE EXISTING FLOOR SOCKETS AND INFILL.
- (E) EXISTING MILLWORK, FIXTURES & TRIMS TO BE REMOVED IN THEIR ENTIERTY AND DISPOSED OF. REFER TO DESIGNATED SUBSTANCE REPORT & MECHANICAL DRAWINGS FOR REMOVAL OF FIXTURES.
- (F) EXISTING PLUMBING & MECH. FIXTURES TO BE REMOVED IN ITS ENTIERTY AND DIPOSED OF. REFER TO MECHANICAL DRAWINGS.
- (G) EXISTING DOORS, TRIM, SHELVING & SUPPORTS ETC. ARE TO BE REMOVED IN THEIR ENTIERTY AND DISPOSED OF. REFER TO MECHANICAL DRAWINGS FOR REMOVAL OF FIXTURES.
- (H) EXISTING COAT HOOKS TO BE CAREFULLY REMOVED AND RELOCATED AS DIRECTED BY THE OWNER. EXISTING TZ CURB TO BE REMOVED.
- (I) EXISTING WALL RAD TO BE REMOVED AND DISPOSED OF. REFER TO MECHANICAL DRAWINGS.
- (J) EXISTING FLOOR SLAB TO BE REMOVED IN ITS ENTIRETY. REFER TO STRUCTURAL DRAWINGS AND DESIGNATED SUBSTANCE REPORT PRIOR TO REMOVAL OF ALL SURFACES.
- (K) EXISTING WINDOW & FRAME TO BE REMOVED IN ITS ENTIRETY AND DISPOSED OF. REFER TO FLOOR PLAN FOR NEW WINDOW & FRAMES.
- (L) EXISTING TERRAZO FLOOR FINISH TO BE REMOVED IN ITS ENTIRETY AND DISPOSED OF. PATCH AND REPAIR EXISTING SLAB TO RECEIVE NEW FLOOR FINISH.
- (M) EXISTING ROOF ASSEMBLY TO BE REMOVED IN ITS ENTIRETY AND DISPOSED OF. REFER TO M/E DRAWINGS.
- (N) EXISTING EXTERIOR WALL ASSEMBLY TO BE REMOVED AS SHOWN TO ALLOW FOR NEW WINDOWS. PORTION OF EXISTING BRICK(S) TO BE CAREFULLY REMOVED AND CLEANED OF MORTAR FOR PATCHING OF EXISTING. INTERIOR BLOCK TO BE DISPOSED OF.
- (P) EXISTING LIGHT FIXTURES AND DEVICES TO BE REMOVED AND DISPOSED OF AS PER ELECT. DWGS.
- (Q) EXISTING BASKETBALL NETS TO BE REMOVED AND TURNED OVER TO OWNER.
- (R) ALL EXISTING WHITE BOARDS, TACKBOARDS, PROJECTORS TO BE REMOVED AND TURNED OVER TO OWNER UNLESS OTHERWISE NOTED.
- (S) EXISTING EXTERIOR WALL ASSEMBLY TO BE REMOVED AS SHOWN TO ALLOW FOR NEW DOOR. EXISTING BRICK TO BE CAREFULLY REMOVED AND STORED FOR PATCH OF EXISTING. INTERIOR BLOCK TO BE DESPOSED OF.
- (T) EXISTING VCT FLOOR FINISH & BASE TO BE REMOVED IN ITS ENTIRETY AND DISPOSED OF. PATCH AND REPAIR EXISTING SLAB TO RECEIVE NEW FLOOR FINISH. REFER TO DESIGNATED SUBSTANCE REPORT.

REFER TO DEMOLITION ELEVATIONS A303 FOR DETAILS

1. ALL EXISTING ITEMS INDICATED ON DRAWINGS ARE APPROXIMATE ONLY AND ARE INDICATED AS ACCURATLY AS POSSIBLE FROM INFORMATION PROVIDED AND OBSERVATIONS ON SITE. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING EXACT LOCATIONS OF ALL ITEMS PRIOR TO COMMENCEMENT OF DEMOLITION AND CONSTRUCTION ACTIVITIES.
2. THE CONTRACTOR SHALL, TOGETHER WITH ANY OF THE SUBCONTRACTORS INVOLVED IN THE WORK OF THIS CONTRACT, EXAMINE ALL SURFACES OR CONDITIONS RELATING TO THE WORK, IN ORDER TO DETERMINE THE ACCEPTABILITY OF SUCH SURFACES OR CONDITIONS FOR THE WORK TO COMMENCE. REPORT IN WRITING TO THE CONSULTANT ANY OBSERVED DEFECTS, OR DEFICIENCIES THAT WOULD ADVERSELY AFFECT THE WORK. COMMENCEMENT OF THE WORK SHALL IMPLY ACCEPTANCE OF ALL SURFACE AND CONDITIONS.
3. CUTTING AND PATCHING: INSPECT EXISTING CONDITIONS, INCLUDING ELEMENTS SUBJECT TO DAMAGE OR MOVEMENT DURING CUTTING AND PATCHING. AFTER UNCOVERING, INSPECT ALL CONDITIONS AFFECTING PERFORMANCE OF WORK. BEGINNING OF WORK MEANS ACCEPTANCE OF CONDITIONS. ALL CUTTING AND PATCHING WORK SHALL BE DONE UNDER THE SUPERVISION OF THE CONTRACTOR.
4. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR ALL EXISTING MECHANICAL AND ELECTRICAL SERVICE DISCONNECTIONS, DEMOLITION AND ALTERATIONS.
5. ALL EXISTING MOVEABLE FURNITURE, PLAQUES, PHOTOS TO BE REMOVED BY OWNER PRIOR TO CONSTRUCTION.

PAINTING:
REPAIR & CLEAN EXISTING WALLS & MAKE READY FOR NEW WALL FINISH.

CEILING:
ALL LIGHT FIXTURES, MECHANICAL & ELECTRICAL EQUIPMENT AND DEVICES THAT ARE LOCATED IN CEILING SCHEDULED FOR DEMOLITION ARE TO BE TERMINATED, REMOVED OR RELOCATED PER THE APPROPRIATE MECHANICAL OR ELECTRICAL DESIGN BY OTHERS. REFER TO A700 FOR RCP DEMOLITION PLAN

FOUNDATIONS:
DO NOT UNDERMINE EXISTING CONCRETE SLAB ON GRADE OR EXISTING FOUNDATIONS. REINSTATE & MAKE GOOD EXISTING BASES UNDER EDGE OF EXITING SLAB. PROVIDE NEW BASES AS REQUIRED. COMPACT BASES TO MIN. 98% SPMDD.

FLOORING:
MAINTAIN AND PROTECT EXISTING FLOOR (THAT IS NOT SCHEDULED TO BE DEMOLISHED) FROM DAMAGE. REFER TO DESIGNATED SUBSTANCES REPORT PRIOR TO ANY REMOVAL.

CAREFULLY EXAMINE ALL EXISTING SITE CONDITIONS AND BUILDING COMPONENTS, ALONG WITH ALL DIMENSIONS WHICH MAY AFFECT PROPER EXECUTION OF THE WORK, SO THAT A CLEAR AND COMPREHENSIVE UNDERSTANDING OF THE SCOPE OF WORK IS ACHEIVED.

WHERE EXISTING CONSTRUCTION TO REMAIN IS DAMAGED BY CONTRACTOR'S DEMOLITION WORK, THE CONSTRUCTION MUST BE REPAIRED TO MATCH EXISTING.

WHERE WALLS AND WALL HUNG ACCESSORIES ARE TO BE REMOVED, THE CONTRACTOR IS TO INCLUDE FOR REMEDIAL WORK NECESSARY TO LEVEL OR REPAIR ADJACENT FLOORS AND WALL SURFACES PRIOR TO APPLICATION OF NEW FLOOR OR WALL HUNG ACCESSORIES. CONTRACTOR TO APPLY TOUCH-UP PAINT. COLOUR TO MATCH EXISTING ADJACENT SURFACES IN AREAS WHERE CONSTRUCTION HAS TAKEN PLACE.

IT IS THE CONTRACTOR'S RESPONSIBILTY WHEN DEMOLISHING THE EXISTING WALLS TO ENSURE THAT ELECTRICAL SERVICES WITHIN THE WALLS AND CEILINGS ARE NOT LIVE. CONTRACTOR TO RE-ROUTE ELECTRICAL IF NECESSARY.

ALL EXISTING MECHANICAL AND ELECTRICAL UNDER-SLAB & ABOVE CEILING SERVICE LINES INDICATED ON DRAWINGS ARE APPROXIMATE ONLY AND ARE INDICATED AS ACCURATELY AS POSSIBLE FROM INFORMATION SUPPLIED. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING EXACT TYPES, LOCATIONS, DEPTHS AND MARKING ALL SERVICES WITH-IN ALL AREAS OF RENOVATION INCLUDING BUT NOT LIMITED TO GAS LINES, WATER LINES, ELECTRICAL LINES, TELEPHONE, CABLE TV ETC. AND VERIFY THEIR EXACT LOCATION WITH THE APPROPRIATE AUTHORITIES BEFORE COMMENCING DEMOLITION WORK.

REFER TO MECHANICAL & ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR ALL EXISTING MECHANICAL & ELECTRICAL SERVICE DISCONNECTS, DEMOLITIONS & ALTERATIONS ETC.

REFER TO STRUCTURAL DRAWINGS FOR ALL TEMPORARY BRACING, SHORING, NEEDLING & DEMOLITION ASSOCIATED WITH STRUCTURAL ITEMS.

PRIOR TO COMMENCING ANY DEMOLITION WORK ALL EXISTING SERVICES ARE TO BE LOCATED & MARKED. PROTECT ANY & ALL SERVICES NOT AFFECTED BY NEW WORK FOR ENTIRE LENGTH OF CONTRACT.

ALL LOOSE FURNITURE, RUGS, WALL HANGINGS, EQUIPMENT ETC. TO BE REMOVED BY OWNER BEFORE START OF CONSTRUCTION.

NOTE: ALSO REFER TO SPECIFICATIONS - DIVISION 02 - EXISTING CONDITIONS

NOTE: EXISTING ITEMS OF EQUIPMENT AND/OR SYSTEMS THAT ARE TO REMAIN IN CURRENT LOCATIONS ARE TO BE PROTECTED THROUGHOUT DEMOLITION AND RENOVATIONS.

NOTE: EXISTING ITEMS OF EQUIPMENT THAT ARE TO BE REUSED AND RELOCATED ARE TO BE DISCONNECTED FROM EXISTING MECHANICAL AND ELECTRICAL SERVICES, REMOVED FROM SITE, STORED IN A CLIMATE CONTROLLED FACILITY AND RETURNED TO THE SITE AT THE APPROPRIATE TIME FOR RE-INSTALLATION AS SPECIFIED. IF REQUIREMENTS NOT IDENTIFIED, CONTRACTOR TO CONFIRM PRIOR TO DISCONNECTION / REMOVAL / RELOCATION.

CONTRACTORS ARE ONLY PERMITTED TO USE THE ENTRANCE(S) AS INDICATED ON THE DEMOLITION PLANS.

CONTRACTORS ARE NOT ALLOWED ACCESS TO ANY OTHER AREAS OF THE EXISTING BUILDING EXCEPT TO PERFORM ANY & ALL WORK AS PART OF THIS CONTRACT.

CONTRACTORS ARE NOT TO USE THE EXISTING BUILDING WASHROOM FACILITIES.

NOTE: REFER TO THE LIMITED DESIGNATED SUBSTANCES SURVEY (LDSS) FOR ALL RECOMMENDATIONS ON REMOVAL & DISPOSAL OF ALL POSSIBLE HAZARDOUS MATERIALS TO BE FOUND ON SITE.

No.	Revision	Date
4	Issued for Permit Resubmission & Tender	2026-04-20
3	Issued for Permit Resubmission	2026-01-26
2	Issued for Permit	2025-09-15
1	Issued for Costing	2025-09-08

Orientation — PROJECT NORTH

Seal — ONTARIO ASSOCIATION OF ARCHITECTS — RYAN STITT — LICENCE 7583

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Project Information

WCDSB St. Paul C.E.S. Addition & Renovation

45 Birchcliff Avenue, Kitchener, ON N2M 4V7

For
Waterloo Catholic District School Board

Drawing Title

Floor Plan - Level 1 - Demo

Date	2026-04-20	Project No	Drawing No
Drawn by	SP, FP	25012	A201
Scale	As indicated		

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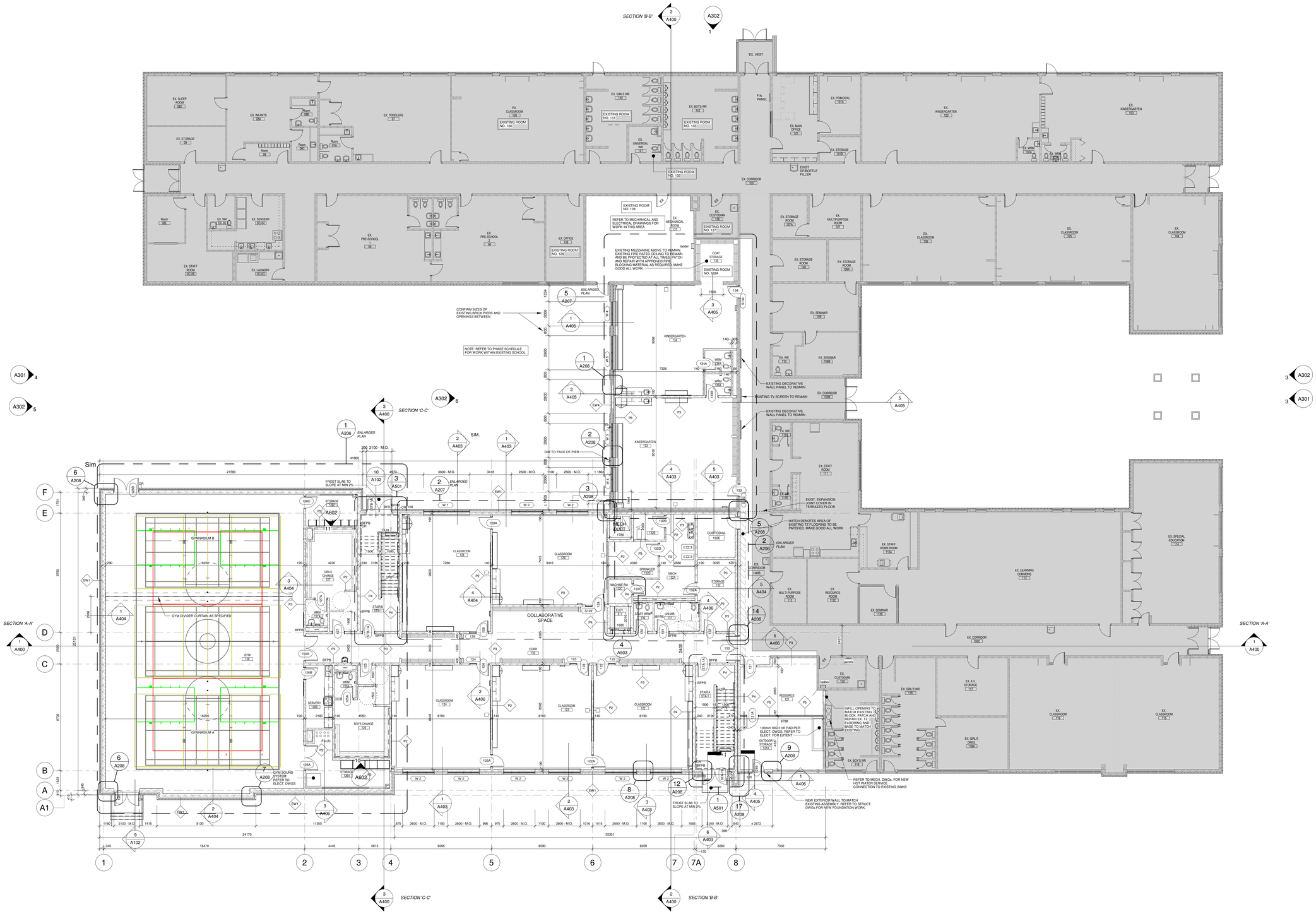

1 A202 Level 1 Floor Plan
1 : 125

No.	Revision	Date
6	Issued for Permit Resubmission & Tender	2026-04-20
5	Issued for Site Plan Resubmission	2026-03-30
4	Issued for Permit Resubmission	2026-01-26
3	Issued for Permit	2025-09-15
2	Issued for Costing	2025-09-08
1	Issued for Site Plan Application	2025-08-07

Orientation

PROJECT NORTH

Seal

ONTARIO ASSOCIATION OF ARCHITECTS
RYAN STITT
LICENCE
7583

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Project Information

WCDSB St. Paul C.E.S. Addition & Renovation

45 Birchcliff Avenue, Kitchener, ON N2M 4V7

For
Waterloo Catholic District School Board

Drawing Title

Floor Plan - Level 1

Date	2026-04-20	Project No	Drawing No
Drawn by	SP, FP	25012	A202
Scale	1 : 125		

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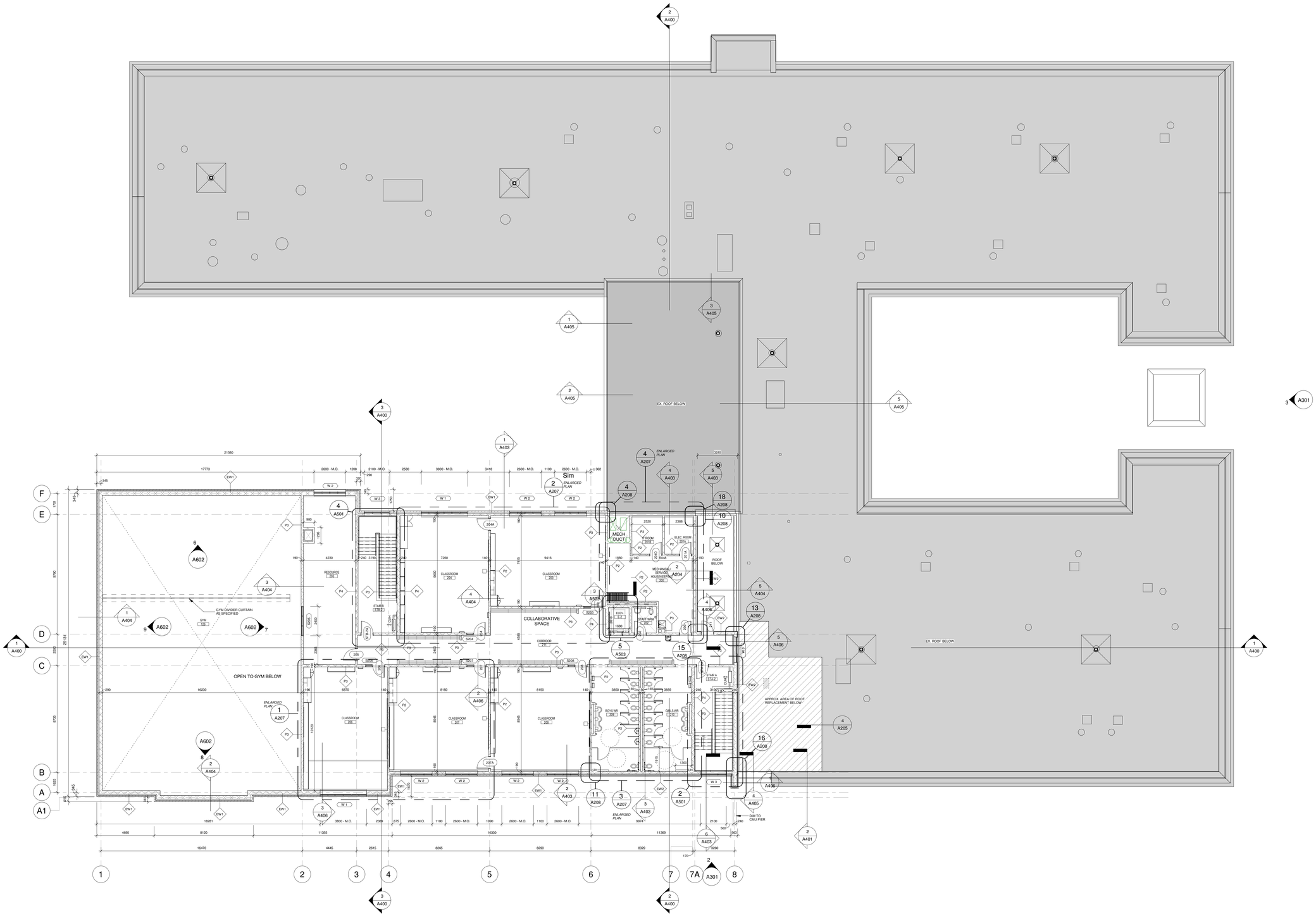

1 A203 Level 2 Floor Plan

1 : 125

No.	Revision	Date
6	Issued for Permit Resubmission & Tender	2026-04-20
5	Issued for Site Plan Resubmission	2026-03-30
4	Issued for Permit Resubmission	2026-01-26
3	Issued for Permit	2025-09-15
2	Issued for Costing	2025-09-08
1	Issued for Site Plan Application	2025-08-07

Orientation

PROJECT NORTH

Seal

ONTARIO ASSOCIATION OF ARCHITECTS
IVAN STITT
LICENCE
7983

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Project Information

WCDSB St. Paul C.E.S. Addition & Renovation

45 Birchcliff Avenue, Kitchener, ON N2M 4V7

For

Waterloo Catholic District School Board

Drawing Title

Floor Plan - Level 2

Date	Project No	Drawing No
2026-04-20	25012	A203
Drawn by SP, FP		
Scale 1 : 125		

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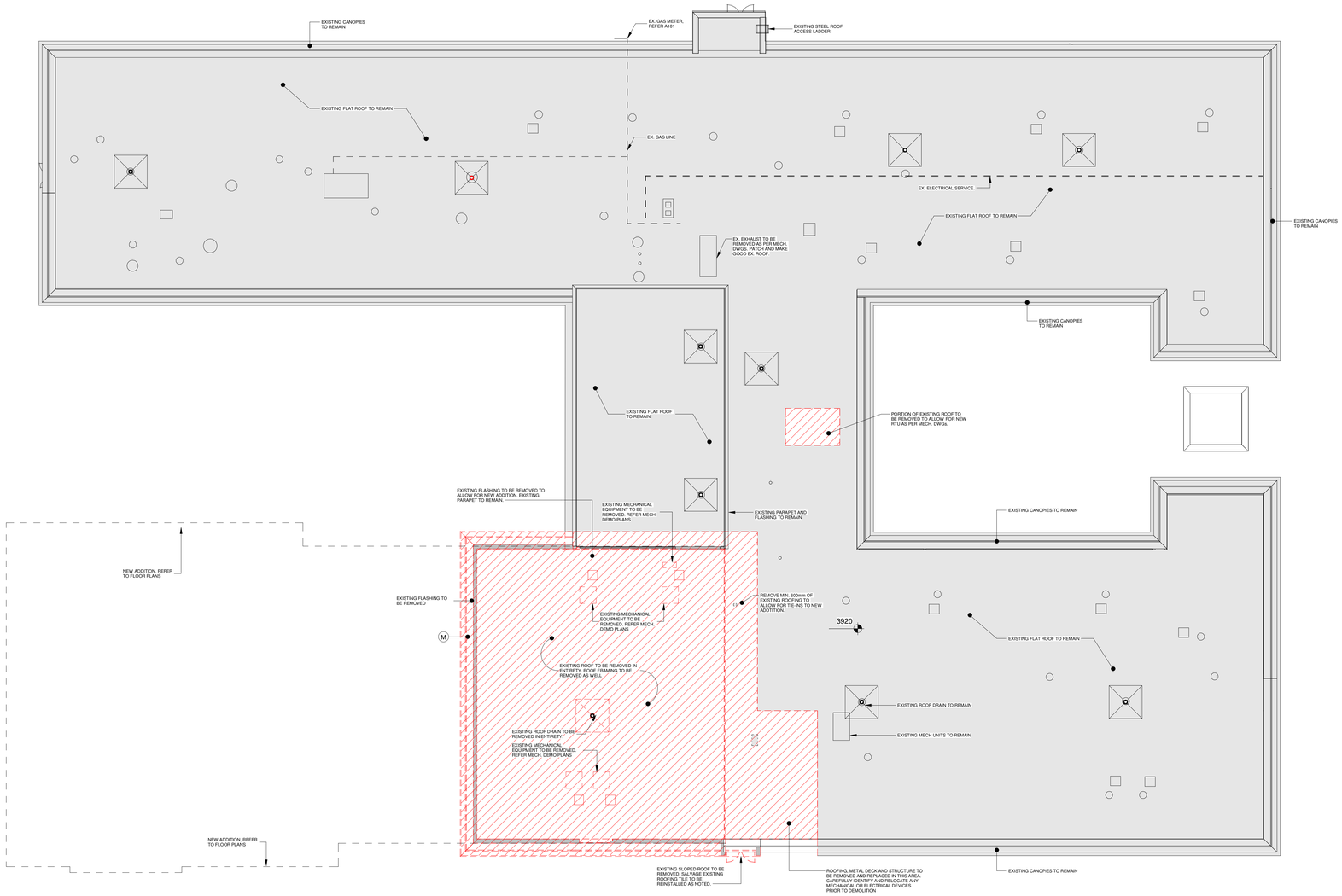
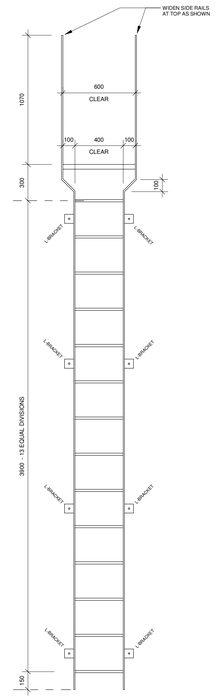
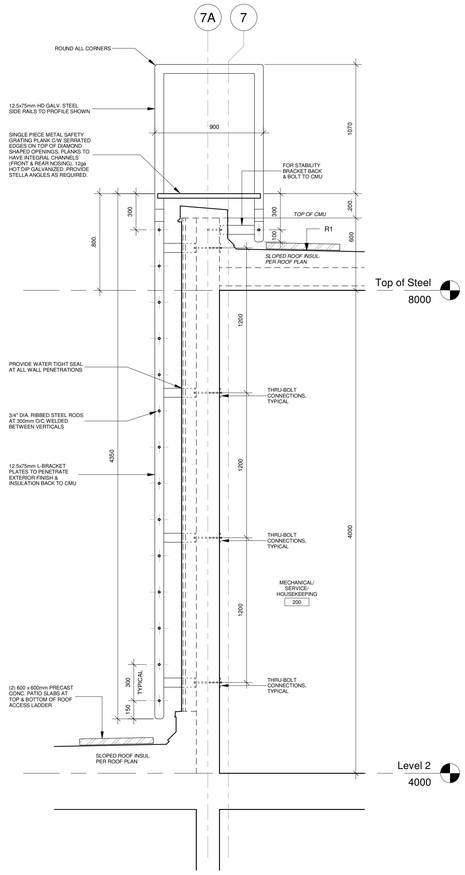


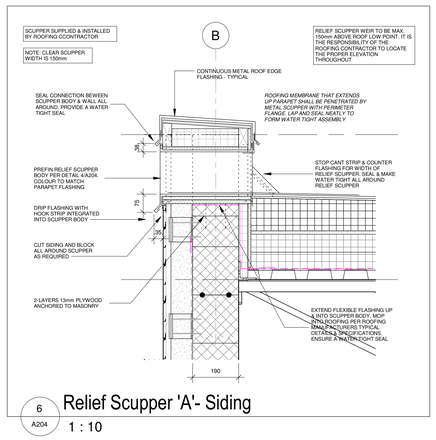
1 A204 Roof Plan - Demo
1 : 150



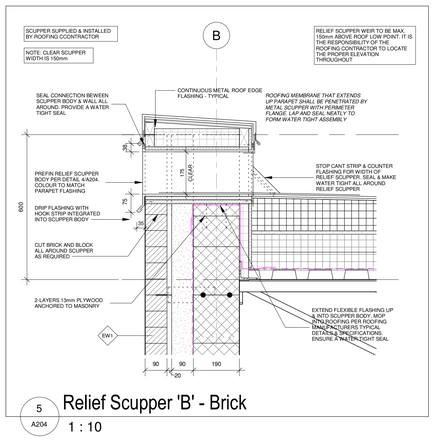
3 A204 Roof Access Ladder - Elev
1 : 20



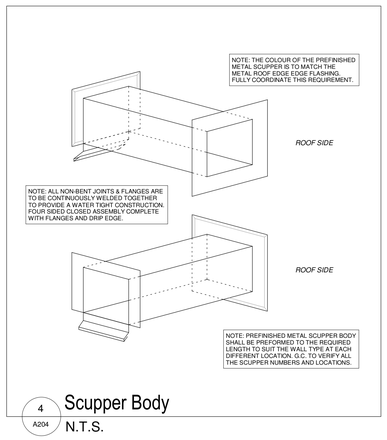
2 A204 Roof Access Ladder - Section
1 : 20



6 A204 Relief Scupper 'A'- Siding
1 : 10



5 A204 Relief Scupper 'B' - Brick
1 : 10



4 A204 Scupper Body
N.T.S.

No.	Revision	Date
4	Issued for Permit Resubmission & Tender	2026-04-20
3	Issued for Permit Resubmission	2026-01-26
2	Issued for Permit	2025-09-15
1	Issued for Costing	2025-09-08

Orientation

Seal

ONTARIO ASSOCIATION OF ARCHITECTS
RYAN STITT
LICENCE
7583

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Project Information
WCDSB St. Paul C.E.S. Addition & Renovation
45 Birchcliff Avenue, Kitchener, ON N2M 4V7

For
Waterloo Catholic District School Board

Drawing Title
Roof Plan - Demo

Date	2026-04-20	Project No	Drawing No
Drawn by	SP, FP	25012	A204
Scale	As indicated		

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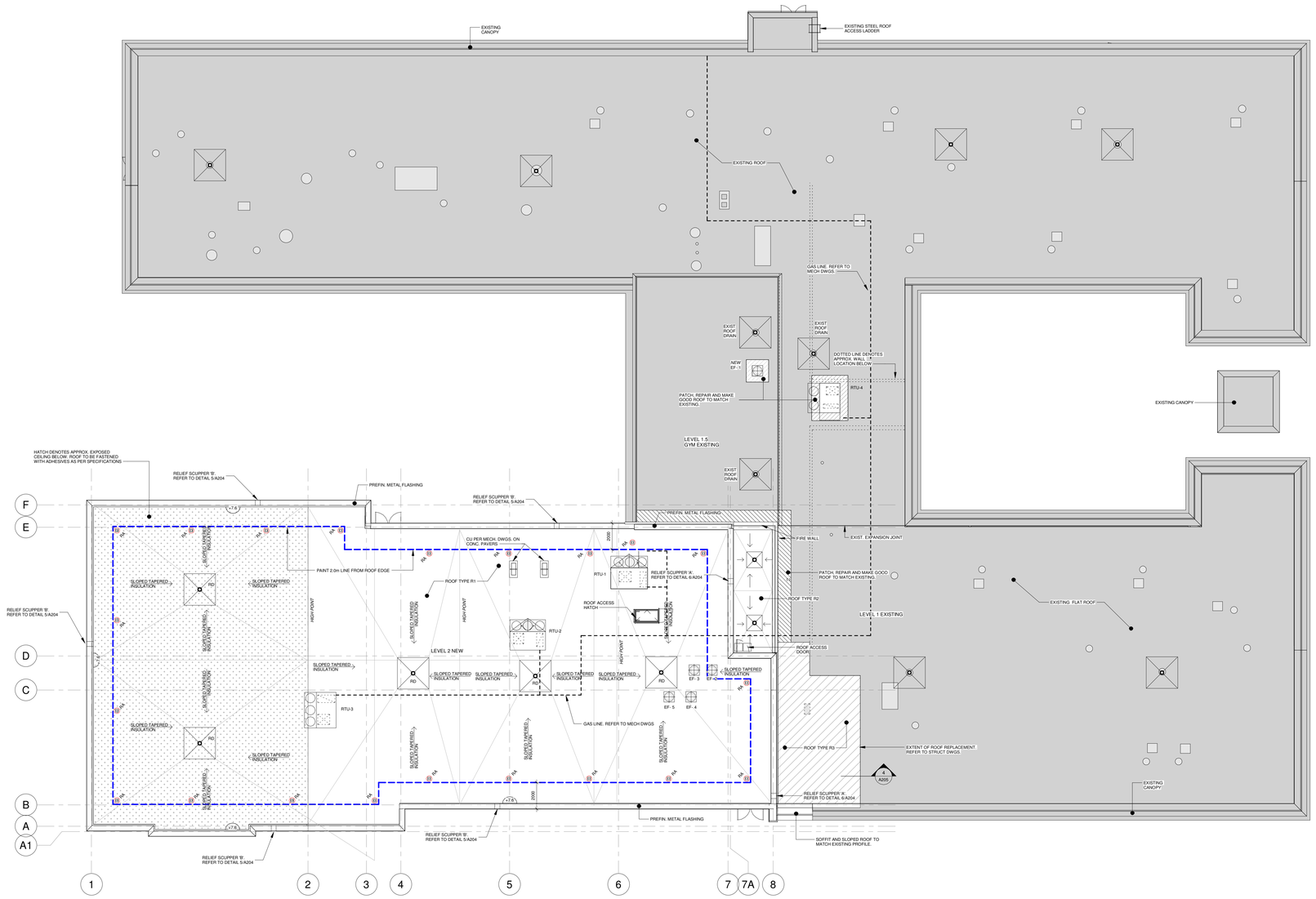
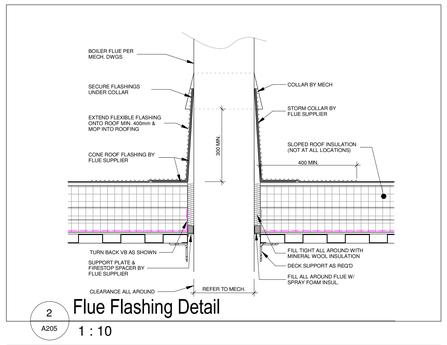


1 A205 Roof Plan
1 : 150



2 A205 Flue Flashing Detail
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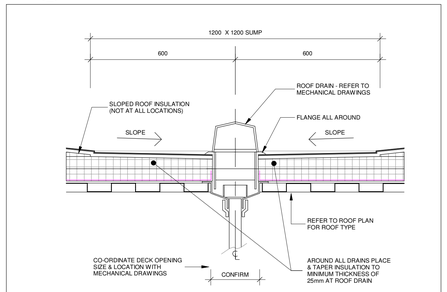
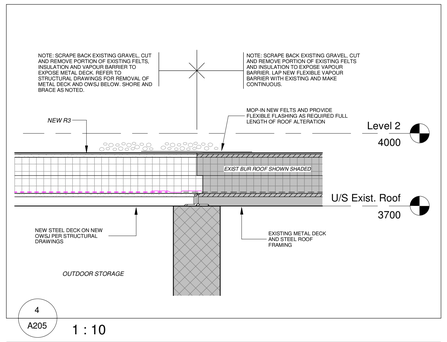


3 A205 Roof Hopper
1 : 10



4 A205
1 : 10

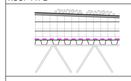
GENERAL ROOF NOTES:

1. ALL MECHANICAL ITEMS ON ROOF SUCH AS VENTS, EXHAUSTS, ROOF HOPPERS ETC. ARE TO BE CAREFULLY COORDINATED WITH THE MECHANICAL DRAWINGS & SPECIFICATIONS. PROVIDE FOR ANY ADDITIONAL MECHANICAL OR ELECTRICAL ITEMS NOT SPECIFICALLY INDICATED ON THIS ROOF PLAN.
2. REFER TO SPECIFICATIONS FOR ROOF ANCHORS AND RELATED REQUIREMENTS. FULLY COORDINATE ROOF ANCHOR LOCATIONS WITH STRUCTURAL DRAWINGS & ROOF ANCHOR SHOP DRAWINGS TO ENSURE PROPER PLACEMENT OF ALL ROOF ANCHORS. LAYOUT SHOWN IS PRELIMINARY ONLY. FINAL LAYOUT TO BE CONFIRMED WITH ROOF ANCHOR SUPPLIER.
3. ALL ROOF FLASHINGS ARE TO BE PREFINISHED AT ALL LOCATIONS THROUGH-OUT EXCEPT AS NOTED ON THE WALL SECTIONS & DETAILS.
4. ALL ROOF AREAS NOT INCLUDED IN GREEN ROOF TO BE FINISHED WITH TWO PLY MODIFIED BITUMEN ROOFING (WHITE) AS SPECIFIED.

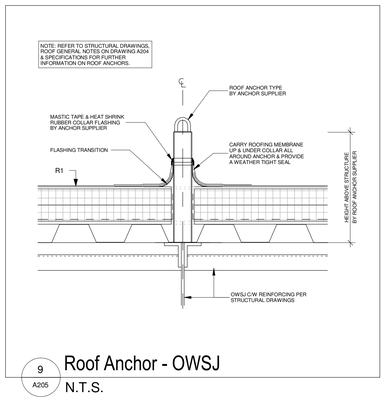
→	INDICATES SIREICTION OF SLOPE FOR ALL SLOPED ROOF INSULATION (INCLUDING CRICKETS). UTILIZE THE MAXIMUM DISTANCE TO ROOF HOPPER & MAXIMUM PERCENTAGE SLOPE TO OBTAIN THE SLOPED ROOF INSULATION THICKNESS AT THE PARAPETS FOR THAT ROOF AREA.
+ ±100	INDICATES APPROXIMATE THICKNESS OF SLOPED ROOF INSULATION AT POINT INDICATED. ASSUME THICKNESS OF ±0 AT HIGH POINT. APPROXIMATE THICKNESS SHOWN ON THIS ROOF PLAN IS DIAGRAMMATIC ONLY & IS SUPPLIED ONLY TO ASSIST THE SLOPED INSULATION SUPPLIER IN "THEIR" DESIGN. NOTE: SLOPED ROOF INSULATION SUPPLIER TO PROVIDE MIN. TYP. 2% POSITIVE SLOPE TOWARDS ALL ROOF HOPPERS (RH) IN ACCORDANCE WITH OBC REQUIREMENTS. THIS PLAN IS DIAGRAMMATIC ONLY & IS SUPPLIED ONLY TO ASSIST THE SLOPED INSULATION SUPPLIER IN "THEIR" DESIGN.
ROOF SLOPE →	INDICATES DIRECTION OF SLOPE IN ROOF STRUCTURE. FULLY COORDINATE WITH STRUCTURAL DRAWINGS
X.XX	TOP OF STRUCTURE ELEVATION (PRECAST OR STEEL) TAKEN ABOVE LEVEL 1 ELEVATION OF 0.00 UNLESS NOTED OTHERWISE
RHO	ROOF DRAIN WITH OVERFLOW AS PER MECH. DWGs, TOP OF PIPE TO BE MAX. 150mm ABOVE ROOF LOW POINT
RH	TYPICAL ROOF HOPPER AS PER MECH. DWGs C/W SUMP
RA 13	APPROXIMATE ROOF ANCHOR LOCATION.

ROOF ANCHOR NOTE:
SUPPLY AND INSTALLATION OF ROOF ANCHORS AND BRACING PER SPECIFICATION SECTION 11 24 23 - FALL PROTECTION SYSTEMS. INCLUDE FOR UP TO (AND INCLUDING) 30 ROOF ANCHORS. REFER TO STRUCTURAL DRAWINGS FOR DETAILS OF REINFORCING AND BRACING AT ANCHOR LOCATIONS. COORDINATE ROOF ANCHOR LOCATIONS WITH OWSJ SHOP DRAWINGS. FINAL LAYOUT TO BE CONFIRMED WITH ROOF ANCHOR SUPPLIER & SHOP DRAWINGS.

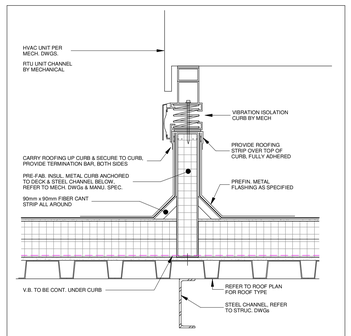
ROOF TYPES:

ROOF TYPE	
	**ROOF TYPE R1:** R-Value = 35 ci PEA GRAVEL AGGREGATE BALLAST BUR ROOF SYSTEM AS SPECIFIED 13mm PROTECTION BOARD SLOPED ROOF INSULATION (SEE ROOF PLAN) 2-LAYERS OF 75mm RIGID INSULATION CONT. AIR/VAPOUR BARRIER 38mm METAL DECKING & STEEL STRUCTURE PER STRUCTURAL DRAWINGS.
	ROOF TYPE R2: R-Value = 35 ci PEA GRAVEL AGGREGATE BALLAST BUR ROOF SYSTEM AS SPECIFIED 13mm PROTECTION BOARD SLOPED ROOF INSULATION (SEE ROOF PLAN) 2-LAYERS OF 75mm RIGID INSULATION CONT. AIR/VAPOUR BARRIER 254mm PRECAST CONCRETE SLABS PER STRUCTURAL DRAWINGS
	ROOF TYPE R3: R-Value = 35 ci *****TO MATCH RECENT REPLACEMENT***** PEA GRAVEL AGGREGATE BALLAST BUR ROOF SYSTEM AS SPECIFIED 13mm PROTECTION BOARD SLOPED ROOF INSULATION (SEE ROOF PLAN) 2-LAYERS OF 75mm RIGID INSULATION CONT. AIR/VAPOUR BARRIER **13mm ROOF SHEATHING BOARD** 38mm METAL DECKING & STEEL STRUCTURE PER STRUCTURAL DRAWINGS

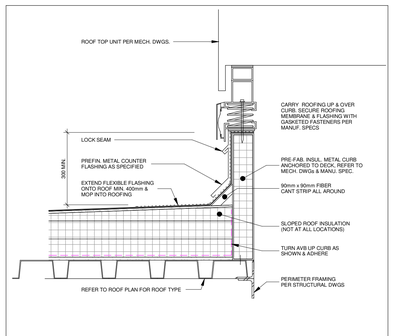
ROOF TYPE NOTES:
ALL R-VALUES INDICATED ON ASSEMBLY SHEET ARE FOR THE CITY'S REFERENCE ONLY. REFER TO THE SPECIFICATION FOR SPECIFIC PRODUCTS AND REQUIREMENTS.



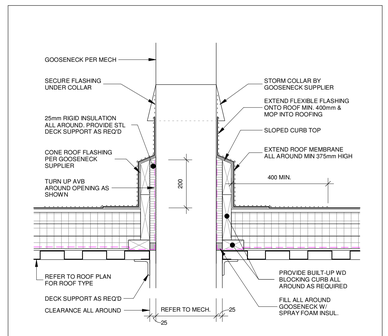
9 A205 Roof Anchor - OWSJ
N.T.S.



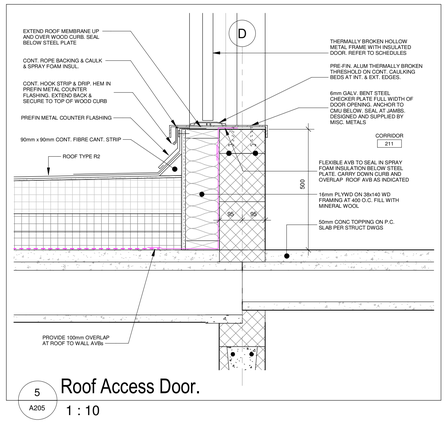
8 A205 RTU Sleeper
1 : 10



7 A205 RTU Support Detail
1 : 10



6 A205 Goose Neck Detail
1 : 10



5 A205 Roof Access Door.
1 : 10

No.	Revision	Date
5	Issued for Permit Resubmission & Tender	2026-04-20
4	Issued for Site Plan Resubmission	2026-03-30
3	Issued for Permit Resubmission	2026-01-26
2	Issued for Permit	2025-09-15
1	Issued for Costing	2025-09-08

Orientation

PROJECT NORTH

Seal

ONTARIO ASSOCIATION OF ARCHITECTS
RYAN STITT
LICENCE
7583

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Project Information

WCDSB St. Paul C.E.S. Addition & Renovation

45 Birchcliff Avenue, Kitchener, ON N2M 4V7

For

Waterloo Catholic District School Board

Drawing Title

Roof Plan

Date	2026-04-20	Project No	Drawing No
Drawn by	SP, FP	25012	A205
Scale	As indicated		

Autodesk Docs://25012 - St Paul CES/25012 - WCDSB St Paul Addition Cloud_R24.rvt
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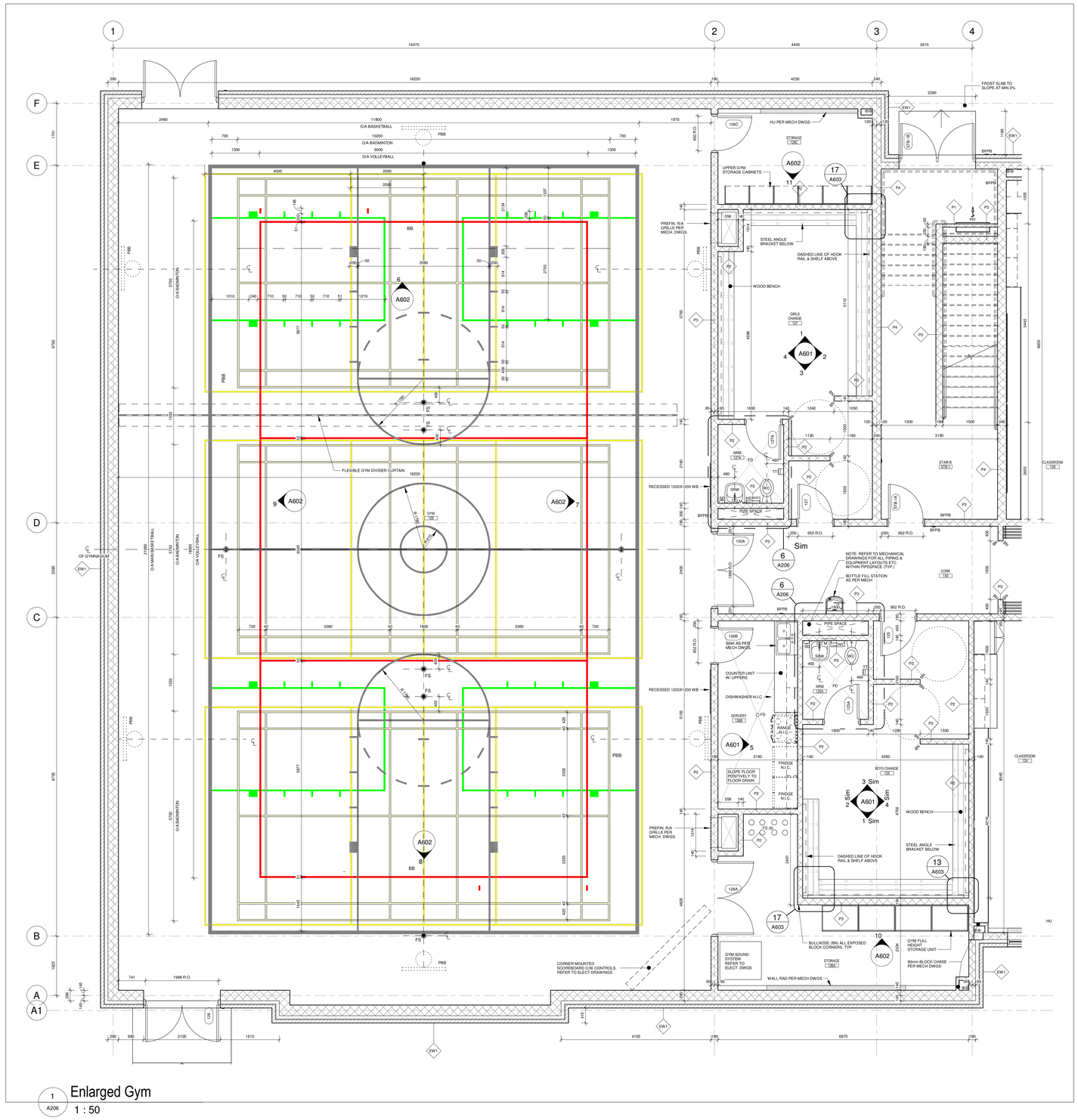
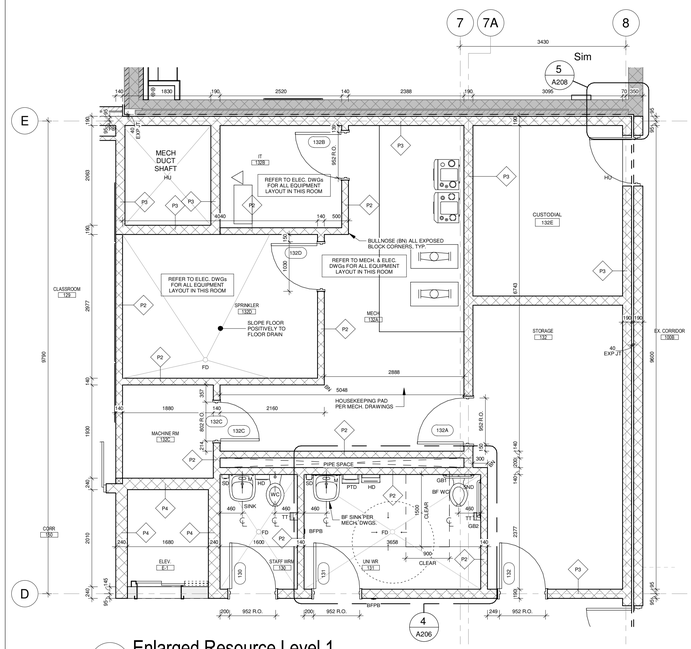
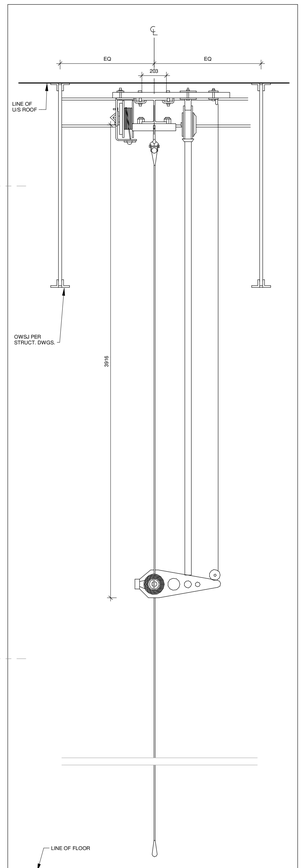


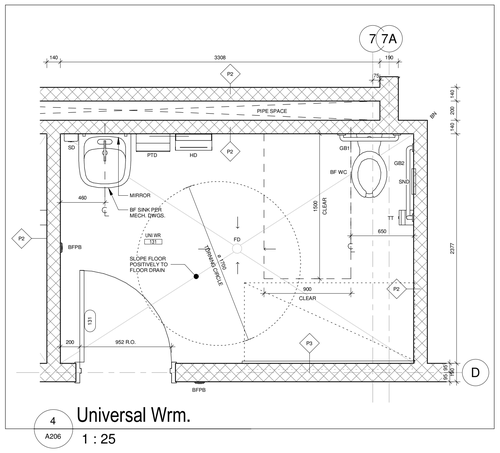
1 A206 Enlarged Gym
1 : 50



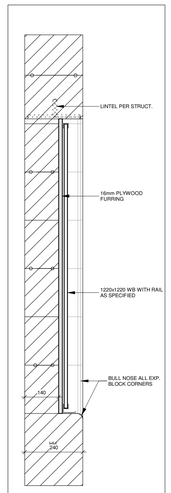
2 A206 Enlarged Resource Level 1
1 : 50



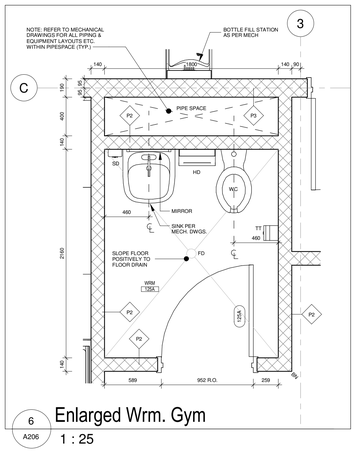
3 A206 Gym Curtain Detail
1 : 20



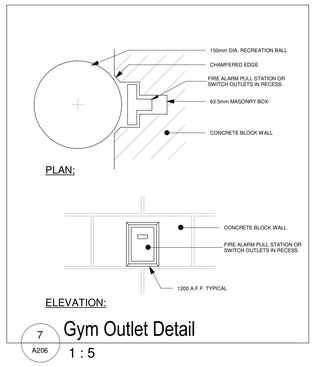
4 A206 Universal Wrm.
1 : 25



5 A206 Recessed WB
1 : 10



6 A206 Enlarged Wrm. Gym
1 : 25



7 A206 Gym Outlet Detail
1 : 5

No.	Revision	Date
4	Issued for Permit Resubmission & Tender	2026-04-20
3	Issued for Permit Resubmission	2026-01-26
2	Issued for Permit	2025-09-15
1	Issued for Costing	2025-09-08

Orientation

PROJECT NORTH

Seal

ONTARIO ASSOCIATION OF ARCHITECTS
RYAN STITT
LICENCE
7583

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Project Information

WCDSB St. Paul C.E.S. Addition & Renovation

45 Birchcliff Avenue, Kitchener, ON N2M 4V7

For

Waterloo Catholic District School Board

Drawing Title

Enlarged Plans

Date	2026-04-20	Project No	Drawing No
Drawn by	SP, FP	25012	A206
Scale	As indicated		

Autodesk Docs://25012 - St Paul CES/25012 - WCDSB St Paul Addition Cloud_R24.rvt
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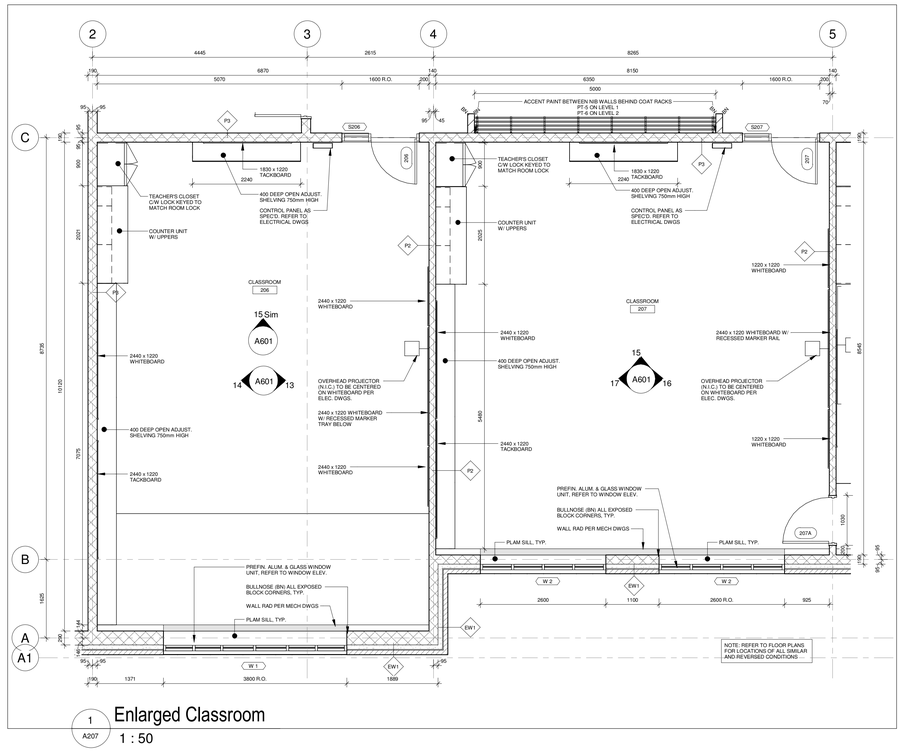
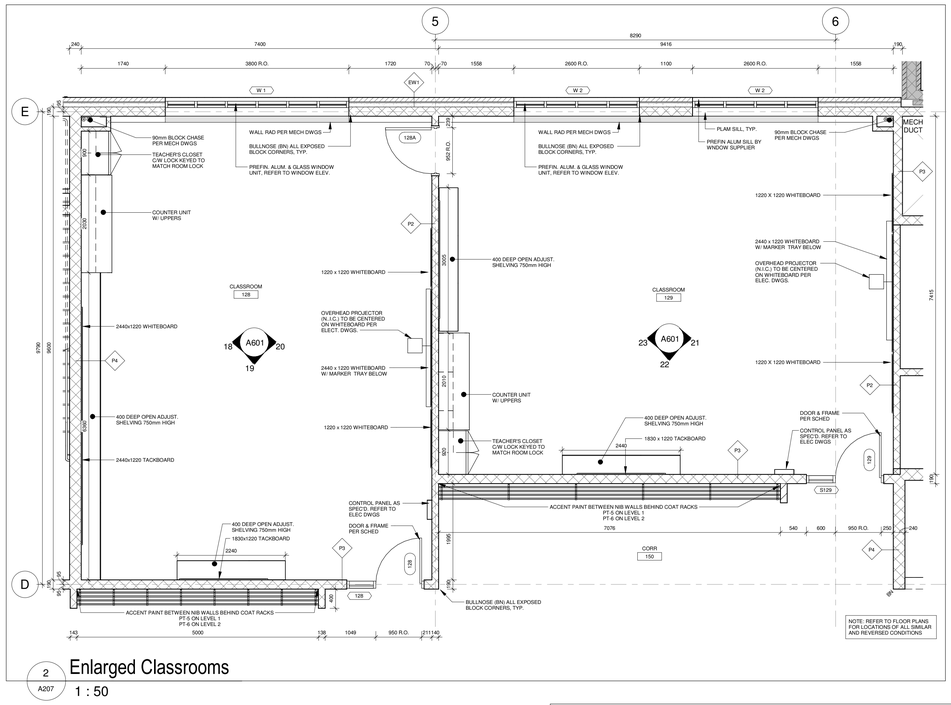


1 A207 Enlarged Classroom
1 : 50



2 A207 Enlarged Classrooms
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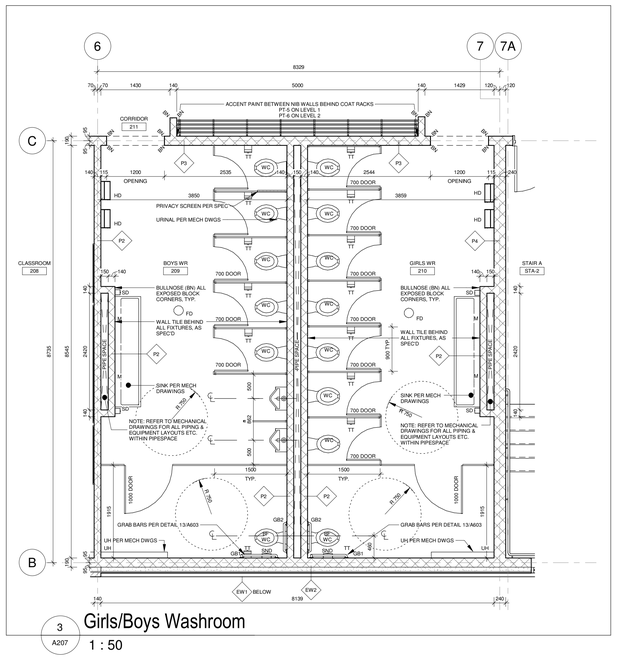
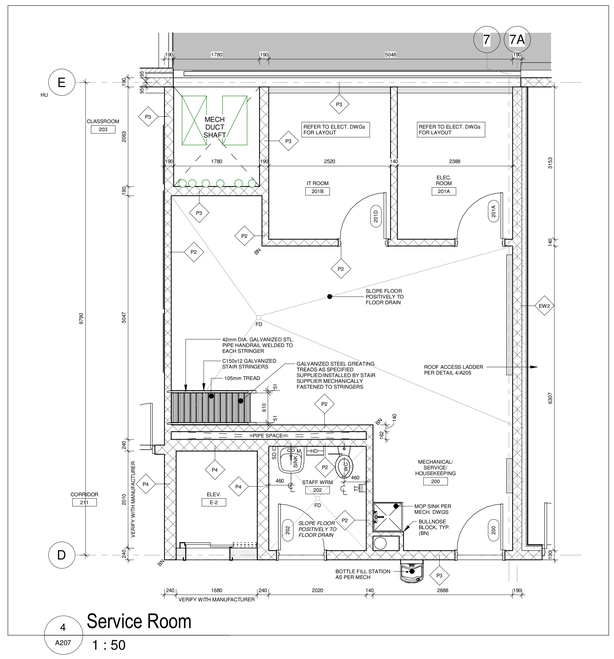
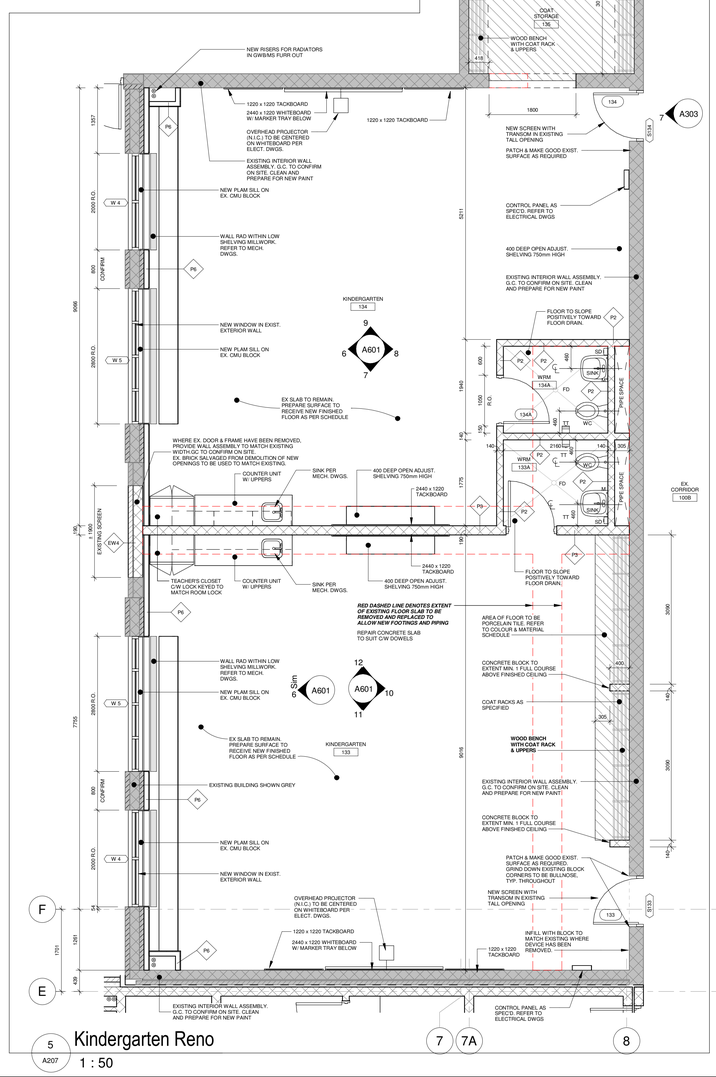


3 A207 Girls/Boys Washroom
1 : 50



4 A207 Service Room
1 : 50



5 A207 Kindergarten Reno
1 : 50

No.	Revision	Date
4	Issued for Permit Resubmission & Tender	2026-04-20
3	Issued for Permit Resubmission	2026-01-26
2	Issued for Permit	2025-09-15
1	Issued for Costing	2025-09-08

Orientation

PROJECT NORTH

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Project Information

WCDSB St. Paul C.E.S. Addition & Renovation

45 Birchcliff Avenue, Kitchener, ON N2M 4V7

For

Waterloo Catholic District School Board

Drawing Title

Enlarged Plans

Date	Project No	Drawing No
2026-04-20	25012	A207
Drawn by SP, FP		
Scale 1 : 50		

Autodesk Docs://25012 - St Paul CES/25012 - WCDSB St Paul Addition Cloud_R24.rvt
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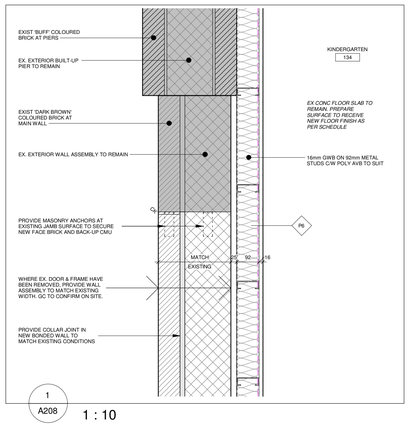

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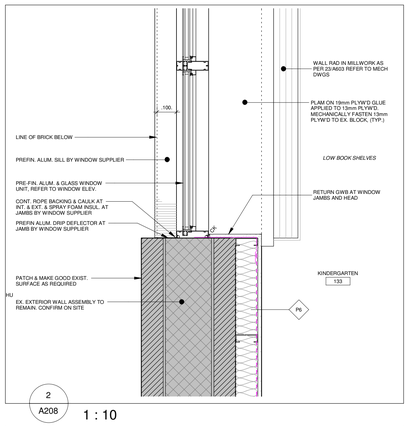

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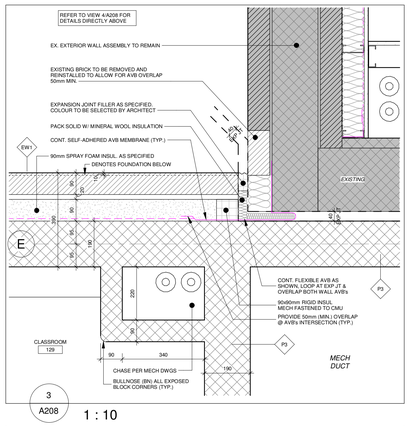

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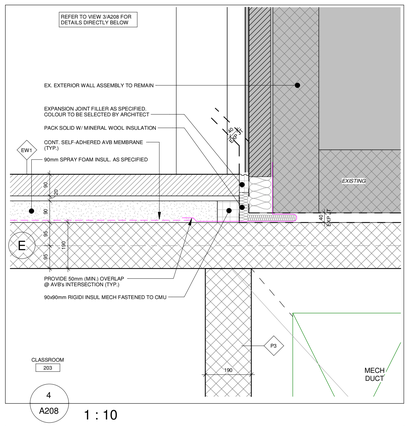

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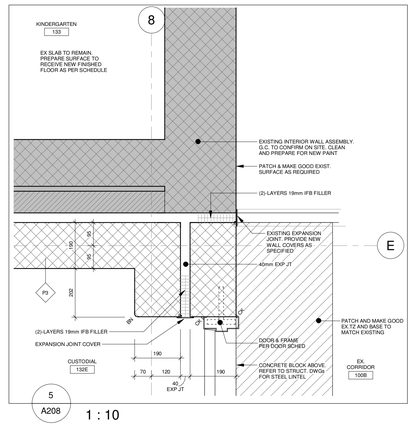

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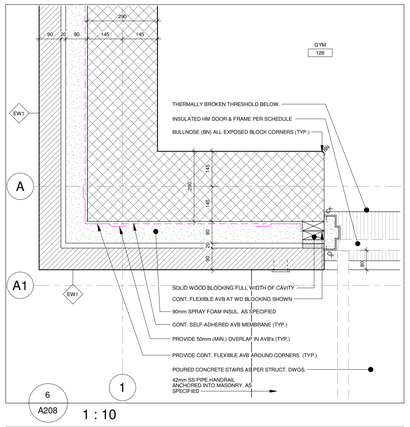

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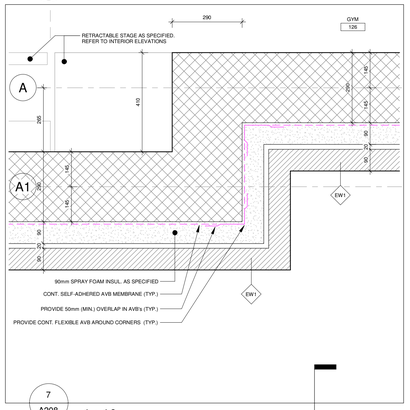

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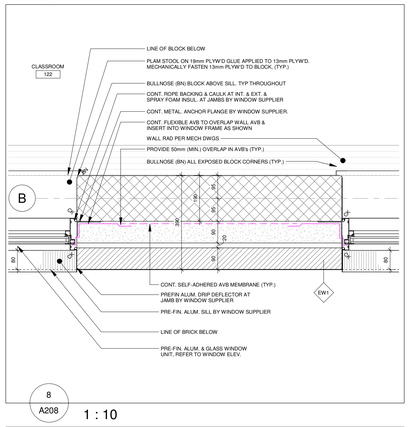

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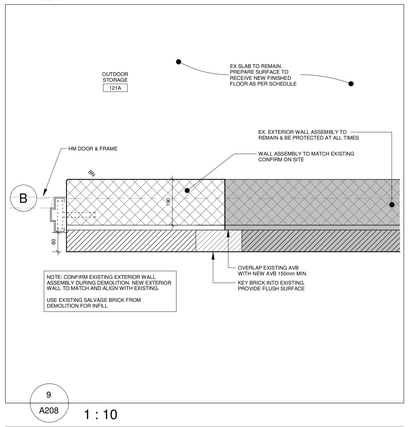

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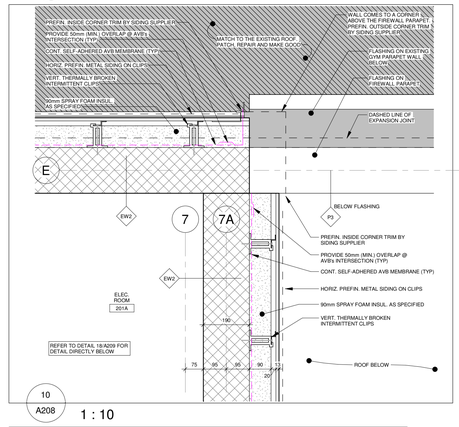

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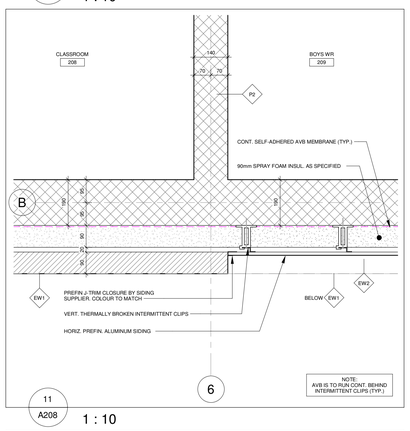

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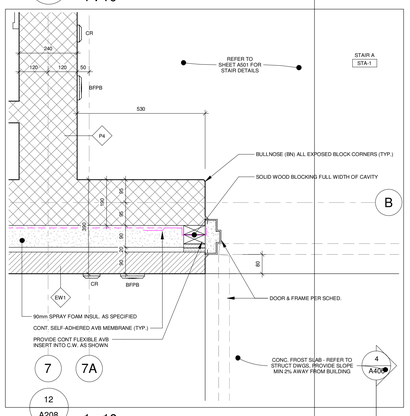

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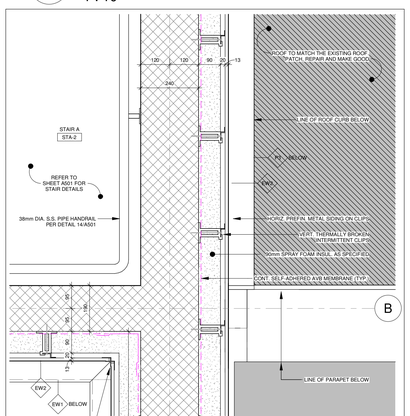

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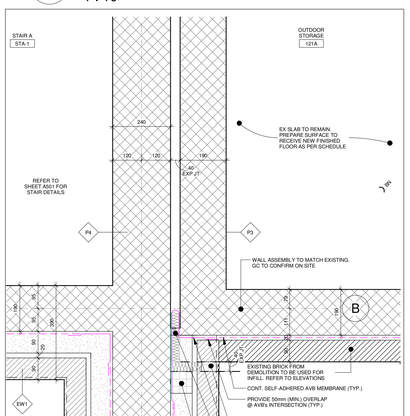

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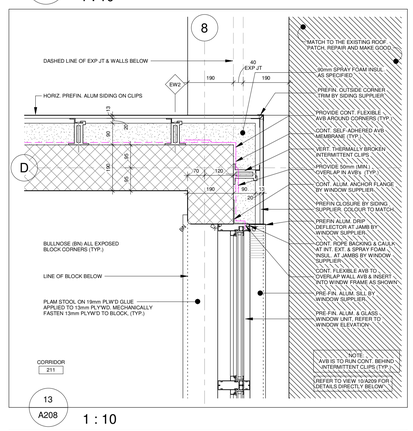

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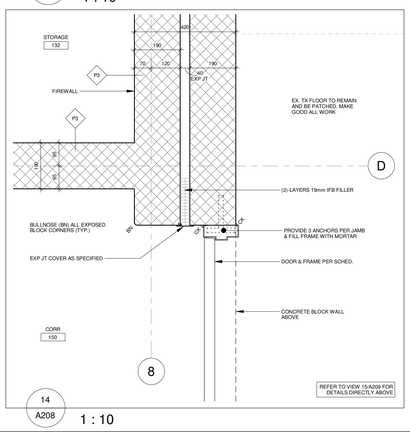

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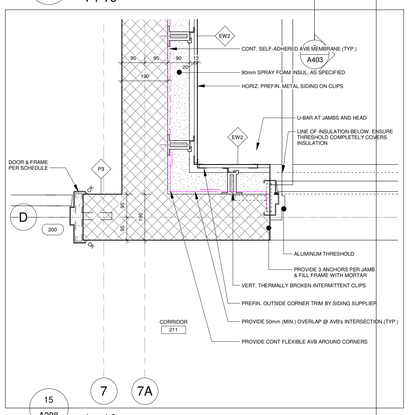

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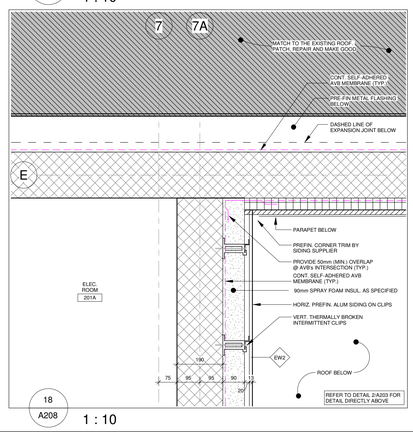

18 A208 1 : 10

No.	Revision	Date
4	Issued for Permit Resubmission & Tender	2026-04-20
3	Issued for Permit Resubmission	2026-01-26
2	Issued for Permit	2025-09-15
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Orientation

PROJECT NORTH

Seal

ONTARIO ASSOCIATION OF ARCHITECTS
RYAN STITT
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Project Information

WCDSB St. Paul C.E.S. Addition & Renovation

45 Birchcliff Avenue, Kitchener, ON N2M 4V7

For

Waterloo Catholic District School Board

Drawing Title

Plan Details

Date	2026-04-20	Project No	Drawing No
Drawn by	FP EL	25012	A208
Scale	1 : 10		

Autodesk Docs://25012 - St Paul CES/25012 - WCDSB St Paul Addition Cloud_R24.rvt
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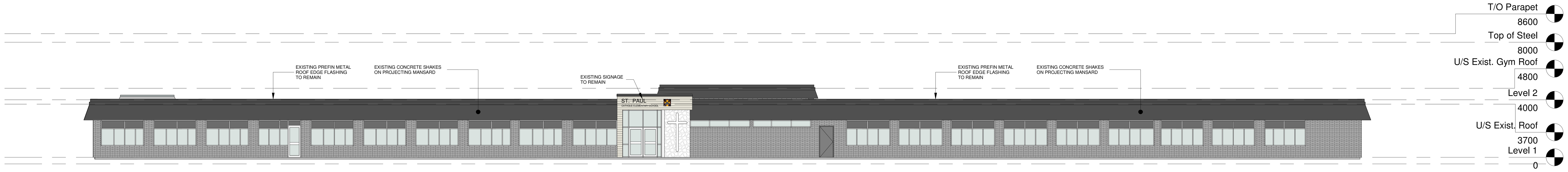
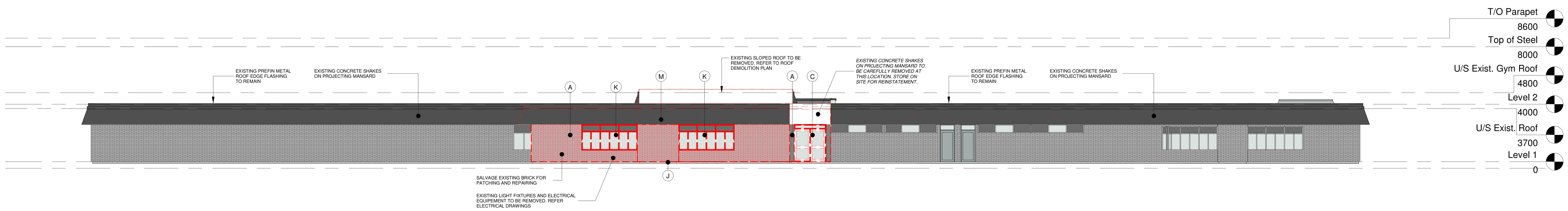


1
A301
North Elevation - Demo
1 : 150



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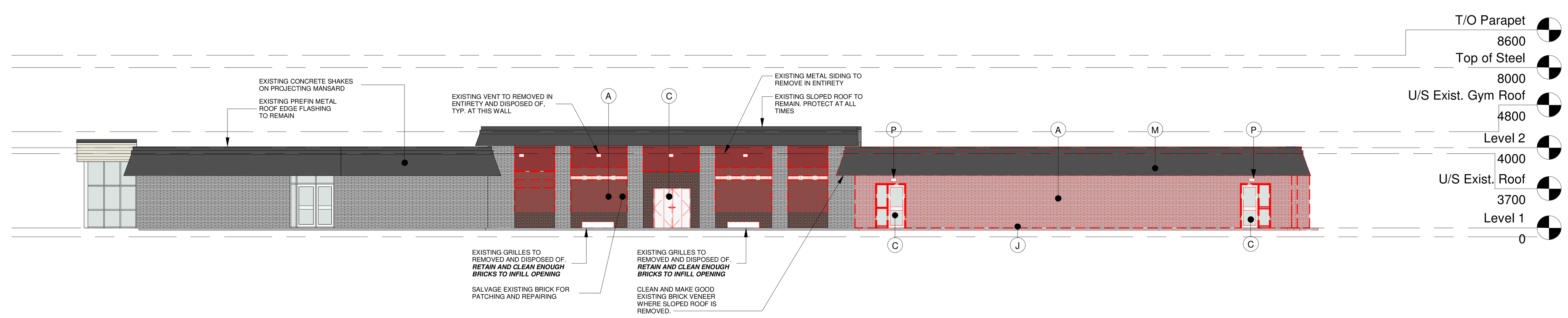
A301
South Elevation - Demo
1 : 150

3
A301
East Elevation - Demo
1 : 150



4
A301
West Elevation - Demo
1 : 150

REMOVALS NOTES:

ALL EXISTING CEILING, WALL, FLOOR & BASE FINISHES ARE IDENTIFIED THUS AND ARE INCLUDED IN THIS LEGEND AS A GUIDE. REMOVE AND REPLACE AND FINISH ONLY THOSE FINISHES SPECIFICALLY NOTED ON DRAWINGS OR WHERE NEW MATERIALS OR FINISHES ARE SPECIFICALLY NOTED IN ROOM FINISH SCHEDULES

XXXX	- INDICATES EXISTING CEILING MATERIALS
XXXX	- INDICATES EXISTING FLOOR MATERIALS
XXXX	- INDICATES EXISTING BASE MATERIALS
XXXX	- INDICATES EXISTING WALL MATERIALS

DEMOLITION ABBREVIATIONS:

ACT	-	ACOUSTIC TILE
CPT	-	CARPET
CMU	-	CONCRETE MEASONRY UNITS
CONC	-	CONCRETE
CT	-	CERAMIC TILE
ES	-	EXPOSED STRUCTURE
EX	-	EXISTING
GWB	-	GYPSUM WALL BOARD
PL	-	PLASTER
RB	-	RUBBER BASE
RSF	-	RUBBER SHEET FLOORING
SAT	-	SPECIAL ACOUSTIC TILE
SF	-	SAFETY FLOORING
TERR	-	TERRAZZO
WD	-	WOOD
VCT	-	VINYL COMPOSITION TILE

ITEMIZED LIST OF EXISTING EQUIPMENT AND BUILDING PORTIONS TO BE REMOVED:

NOTE: THIS LIST IS PRESENTED AS A PARTIAL LIST OF EXISTING ITEMS AND IS REPRESENTATIVE ONLY OF THE NATURE AND TYPE OF ITEMS TO BE REMOVED. ADDITIONAL REMOVALS CALLED FOR, OR IMPLIED AS A RESULT OF NEW CONSTRUCTION WORK AS DETAILED, ARE TO BE CARRIED OUT AS REQUIRED. CONTRACTOR IS RESPONSIBLE FOR COMPLETE INSPECTION OF ALL EXISTING CONDITIONS TO DETERMINE THE EXTENT OF DEMOLITION AND REMOVAL NECESSARY TO COMPLETE ALL WORK TO THE INTENT OF THE DRAWINGS AND SPECIFICATIONS. REFER TO MECHANICAL & ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR INFORMATION PERTAINING TO DEMOLITION AND REMOVAL OF ALL MECHANICAL AND ELECTRICAL EQUIPMENT AND SERVICES BY OTHERS. WHERE THESE DRAWING REFER TO MECHANICAL AND ELECTRICAL DRAWINGS, THIS WORK IS BY OTHERS.

INDICATES EXISTING DOORS & FRAMES TO BE REMOVED. REPAIR & MAKE GOOD EXISTING JAMBS TO REMAIN. SEE PLANS FOR LOCATIONS.

PORTIONS OF EXISTING WALL SYSTEMS TO BE REMOVED TO EXTENT INDICATED. REMOVE FULL HEIGHT (OR AS INDICATED) & PROVIDE STRUCTURAL SUPPORT AS REQUIRED. REPAIR REMAINING ADJACENT ELEMENTS TO MATCH EXISTING. MAKE GOOD ALL WORK.

INDICATES EXISTING WINDOW & FRAME TO BE REMOVED. REPAIR & MAKE GOOD EXISTING JAMBS TO REMAIN. SEE PLANS FOR LOCATIONS.

AREA OF EXISTING CONCRETE FLOOR SLAB & STRUCTURE TO BE CUT AND REMOVED AS REQUIRED TO REMOVED/INSTALL NEW EXISTING PLUMBING. COORDINATE FULLY WITH WITH STRUCTURAL & MECHANICAL DRAWINGS. MAKE GOOD ALL WORK.

EXISTING/DEMOLITION NOTES

A	EXISTING BRICK TO BE CAREFULLY REMOVED AND STORED FOR PATCH OF EXISTING. EXISTING EXTERIOR WALL ASSEMBLY & FOUNDATIONS TO BE REMOVED IN ITS ENTIRETY AND DISPOSED OF. REFER TO STRUCT. DWGS. FOR TEMPORARY SUPPORT OF EXISTING ROOF FRAMING THAT IS REMAIN.
B	EXISTING INTERIOR WALL ASSEMBLY TO BE REMOVED IN ITS ENTIRETY AS SHOWN AND DISPOSED OF. REFER TO NEW FLOOR PLANS FOR EXTENT
C	EXISTING DOOR & FRAME TO BE REMOVED IN ITS ENTIRETY AND DISPOSED OF. MAKE GOOD EXISTING SURFACES AS INDICATED ON FLOOR PLAN.
D	EXISTING CONCRETE SLAB TO REMAIN. PATCH AND MAKE GOOD AND LEVEL TO RECEIVED NEW FLOOR FINISH AS PER COLOUR AND MATERIAL SCHEDULE. REMOVE EXISTING FLOOR SOCKETS AND INFILL.
E	EXISTING MILLWORK, FIXTURES & TRIMS TO BE REMOVED IN THEIR ENTIERTY AND DISPOSED OF. REFER TO DESIGNATED SUBSTANCE REPORT & MECHANICAL DRAWINGS FOR REMOVAL OF FIXTURES.
F	EXISTING PLUMBING & MECH. FIXTURES TO BE REMOVED IN ITS ENTIERTY AND DIPOSED OF. REFER TO MECHANICAL DRAWINGS.
G	EXISTING DOORS, TRIM, SHELVING & SUPPORTS ETC. ARE TO BE REMOVED IN THEIR ENTIERTY AND DISPOSED OF. REFER TO MECHANICAL DRAWINGS FOR REMOVAL OF FIXTURES.
H	EXISTING COAT HOOKS TO BE CAREFULLY REMOVED AND RELOCATED AS DIRECTED BY THE OWNER. EXISTING TZ CURB TO BE REMOVED.
I	EXISTING WALL RAD TO BE REMOVED AND DISPOSED OF. REFER TO MECHANICAL DRAWINGS.
J	EXISTING FLOOR SLAB TO BE REMOVED IN ITS ENTIRETY. REFER TO STRUCTURAL DRAWINGS AND DESIGNATED SUBSTANCE REPORT PRIOR TO REMOVAL OF ALL SURFACES.
K	EXISTING WINDOW & FRAME TO BE REMOVED IN ITS ENTIRETY AND DISPOSED OF. REFER TO FLOOR PLAN FOR NEW WINDOW & FRAMES.
L	EXISTING TERRAZO FLOOR FINISH TO BE REMOVED IN ITS ENTIRETY AND DISPOSED OF. PATCH AND REPAIR EXISTING SLAB TO RECEIVE NEW FLOOR FINISH.
M	EXISTING ROOF ASSEMBLY TO BE REMOVED IN ITS ENTIRETY AND DISPOSED OF. REFER TO M/E DRAWINGS.
N	EXISTING EXTERIOR WALL ASSEMBLY TO BE REMOVED AS SHOWN TO ALLOW FOR NEW WINDOWS. PORTION OF EXISTING BRICK(S) TO BE CAREFULLY REMOVED AND CLEANED OF MORTAR FOR PATCHING OF EXISTING. INTERIOR BLOCK TO BE DISPOSED OF.
P	EXISTING LIGHT FIXTURES AND DEVICES TO BE REMOVED AND DISPOSED OF AS PER ELECT. DWGS.
Q	EXISTING BASKETBALL NETS TO BE REMOVED AND TURNED OVER TO OWNER.
R	ALL EXISTING WHITE BOARDS, TACKBOARDS, PROJECTORS TO BE REMOVED AND TURNED OVER TO OWNER UNLESS OTHERWISE NOTED.
S	EXISTING EXTERIOR WALL ASSEMBLY TO BE REMOVED AS SHOWN TO ALLOW FOR NEW DOOR. EXISTING BRICK TO BE CAREFULLY REMOVED AND STORED FOR PATCH OF EXISTING. INTERIOR BLOCK TO BE DESPOSED OF.
T	EXISTING VCT FLOOR FINISH & BASE TO BE REMOVED IN ITS ENTIRETY AND DISPOSED OF. PATCH AND REPAIR EXISTING SLAB TO RECEIVE NEW FLOOR FINISH. REFER TO DESIGNATED SUBSTANCE REPORT.

REFER TO DEMOLITION ELEVATIONS A303 FOR DETAILS

1. ALL EXISTING ITEMS INDICATED ON DRAWINGS ARE APPROXIMATE ONLY AND ARE INDICATED AS ACCURATLY AS POSSIBLE FROM INFORMATION PROVIDED AND OBSERVATIONS ON SITE. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING EXACT LOCATIONS OF ALL ITEMS PRIOR TO COMMENCEMENT OF DEMOLITION AND CONSTRUCTION ACTIVITIES.
2. THE CONTRACTOR SHALL, TOGETHER WITH ANY OF THE SUBCONTRACTORS INVOLVED IN THE WORK OF THIS CONTRACT, EXAMINE ALL SURFACES OR CONDITIONS RELATING TO THE WORK, IN ORDER TO DETERMINE THE ACCEPTABILITY OF SUCH SURFACES OR CONDITIONS FOR THE WORK TO COMMENCE. REPORT IN WRITING TO THE CONSULTANT ANY OBSERVED DEFECTS, OR DEFICIENCIES THAT WOULD ADVERSELY AFFECT THE WORK. COMMENCEMENT OF THE WORK SHALL IMPLY ACCEPTANCE OF ALL SURFACE AND CONDITIONS.
3. CUTTING AND PATCHING: INSPECT EXISTING CONDITIONS, INCLUDING ELEMENTS SUBJECT TO DAMAGE OR MOVEMENT DURING CUTTING AND PATCHING. AFTER UNCOVERING, INSPECT ALL CONDITIONS AFFECTING PERFORMANCE OF WORK. BEGINNING OF WORK MEANS ACCEPTANCE OF CONDITIONS. ALL CUTTING AND PATCHING WORK SHALL BE DONE UNDER THE SUPERVISION OF THE CONTRACTOR.
4. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR ALL EXISTING MECHANICAL AND ELECTRICAL SERVICE DISCONNECTIONS, DEMOLITION AND ALTERATIONS.
5. ALL EXISTING MOVEABLE FURNITURE, PLAQUES, PHOTOS TO BE REMOVED BY OWNER PRIOR TO CONSTRUCTION.

PAINTING:
REPAIR & CLEAN EXISTING WALLS & MAKE READY FOR NEW WALL FINISH.

CEILING:
ALL LIGHT FIXTURES, MECHANICAL & ELECTRICAL EQUIPMENT AND DEVICES THAT ARE LOCATED IN CEILING SCHEDULED FOR DEMOLITION ARE TO BE TERMINATED, REMOVED OR RELOCATED PER THE APPROPRIATE MECHANICAL OR ELECTRICAL DESIGN BY OTHERS. REFER TO A700 FOR RCP DEMOLITION PLAN

FOUNDATIONS:
DO NOT UNDERMINE EXISTING CONCRETE SLAB ON GRADE OR EXISTING FOUNDATIONS. REINSTATE & MAKE GOOD EXISTING BASES UNDER EDGE OF EXITING SLAB. PROVIDE NEW BASES AS REQUIRED. COMPACT BASES TO MIN. 98% SPMDD.

FLOORING:
MAINTAIN AND PROTECT EXISTING FLOOR (THAT IS NOT SCHEDULED TO BE DEMOLISHED) FROM DAMAGE. REFER TO DESIGNATED SUBSTANCES REPORT PRIOR TO ANY REMOVAL.

CAREFULLY EXAMINE ALL EXISTING SITE CONDITIONS AND BUILDING COMPONENTS, ALONG WITH ALL DIMENSIONS WHICH MAY AFFECT PROPER EXECUTION OF THE WORK, SO THAT A CLEAR AND COMPREHENSIVE UNDERSTANDING OF THE SCOPE OF WORK IS ACHEIVED.

WHERE EXISTING CONSTRUCTION TO REMAIN IS DAMAGED BY CONTRACTOR'S DEMOLITION WORK, THE CONSTRUCTION MUST BE REPAIRED TO MATCH EXISTING.

WHERE WALLS AND WALL HUNG ACCESSORIES ARE TO BE REMOVED, THE CONTRACTOR IS TO INCLUDE FOR REMEDIAL WORK NECESSARY TO LEVEL OR REPAIR ADJACENT FLOORS AND WALL SURFACES PRIOR TO APPLICATION OF NEW FLOOR OR WALL HUNG ACCESSORIES. CONTRACTOR TO APPLY TOUCH-UP PAINT. COLOUR TO MATCH EXISTING ADJACENT SURFACES IN AREAS WHERE CONSTRUCTION HAS TAKEN PLACE.

IT IS THE CONTRACTOR'S RESPONSIBILTY WHEN DEMOLISHING THE EXISTING WALLS TO ENSURE THAT ELECTRICAL SERVICES WITHIN THE WALLS AND CEILINGS ARE NOT LIVE. CONTRACTOR TO RE-ROUTE ELECTRICAL IF NECESSARY.

ALL EXISTING MECHANICAL AND ELECTRICAL UNDER-SLAB & ABOVE CEILING SERVICE LINES INDICATED ON DRAWINGS ARE APPROXIMATE ONLY AND ARE INDICATED AS ACCURATELY AS POSSIBLE FROM INFORMATION SUPPLIED. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING EXACT TYPES, LOCATIONS, DEPTHS AND MARKING ALL SERVICES WITH-IN ALL AREAS OF RENOVATION INCLUDING BUT NOT LIMITED TO GAS LINES, WATER LINES, ELECTRICAL LINES, TELEPHONE, CABLE TV ETC. AND VERIFY THEIR EXACT LOCATION WITH THE APPROPRIATE AUTHORITIES BEFORE COMMENCING DEMOLITION WORK.

REFER TO MECHANICAL & ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR ALL EXISTING MECHANICAL & ELECTRICAL SERVICE DISCONNECTS, DEMOLITIONS & ALTERATIONS ETC.

REFER TO STRUCTURAL DRAWINGS FOR ALL TEMPORARY BRACING, SHORING, NEEDLING & DEMOLITION ASSOCIATED WITH STRUCTURAL ITEMS.

PRIOR TO COMMENCING ANY DEMOLITION WORK ALL EXISTING SERVICES ARE TO BE LOCATED & MARKED. PROTECT ANY & ALL SERVICES NOT AFFECTED BY NEW WORK FOR ENTIRE LENGTH OF CONTRACT.

ALL LOOSE FURNITURE, RUGS, WALL HANGINGS, EQUIPMENT ETC. TO BE REMOVED BY OWNER BEFORE START OF CONSTRUCTION.

NOTE: ALSO REFER TO SPECIFICATIONS - DIVISION 02 - EXISTING CONDITIONS

NOTE: EXISTING ITEMS OF EQUIPMENT AND/OR SYSTEMS THAT ARE TO REMAIN IN CURRENT LOCATIONS ARE TO BE PROTECTED THROUGHOUT DEMOLITION AND RENOVATIONS.

NOTE: EXISTING ITEMS OF EQUIPMENT THAT ARE TO BE REUSED AND RELOCATED ARE TO BE DISCONNECTED FROM EXISTING MECHANICAL AND ELECTRICAL SERVICES, REMOVED FROM SITE, STORED IN A CLIMATE CONTROLLED FACILITY AND RETURNED TO THE SITE AT THE APPROPRIATE TIME FOR RE-INSTALLATION AS SPECIFIED. IF REQUIREMENTS NOT IDENTIFIED, CONTRACTOR TO CONFIRM PRIOR TO DISCONNECTION / REMOVAL / RELOCATION.

CONTRACTORS ARE ONLY PERMITTED TO USE THE ENTRANCE(S) AS INDICATED ON THE DEMOLITION PLANS.

CONTRACTORS ARE NOT ALLOWED ACCESS TO ANY OTHER AREAS OF THE EXISTING BUILDING EXCEPT TO PERFORM ANY & ALL WORK AS PART OF THIS CONTRACT.

CONTRACTORS ARE NOT TO USE THE EXISTING BUILDING WASHROOM FACILITIES.

NOTE: REFER TO THE LIMITED DESIGNATED SUBSTANCES SURVEY (LDSS) FOR ALL RECOMMENDATIONS ON REMOVAL & DISPOSAL OF ALL POSSIBLE HAZARDOUS MATERIALS TO BE FOUND ON SITE.

No.	Revision	Date
6	Issued for Permit Resubmission & Tender	2026-04-20
5	Issued for Site Plan Resubmission	2026-03-30
4	Issued for Permit Resubmission	2026-01-26
3	Issued for Permit	2025-09-15
2	Issued for Costing	2025-09-08
1	Issued for Site Plan Application	2025-08-07

Orientation

Seal

ONTARIO ASSOCIATION OF ARCHITECTS
RYAN STITT
LICENCE
7583

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Project Information

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45 Birchcliff Avenue, Kitchener, ON N2M 4V7

For
Waterloo Catholic District School Board

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Building Demo Elevations

Date	2026-04-20	Project No	Drawing No
Drawn by	SP, FP	25012	A301
Scale	As indicated		

Autodesk Docs://25012 - St Paul CES/25012 - WCDSB St Paul Addition Cloud_R24.rvt
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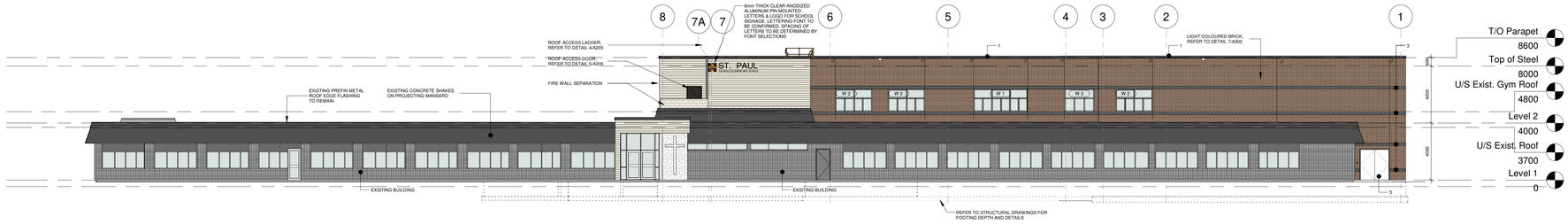
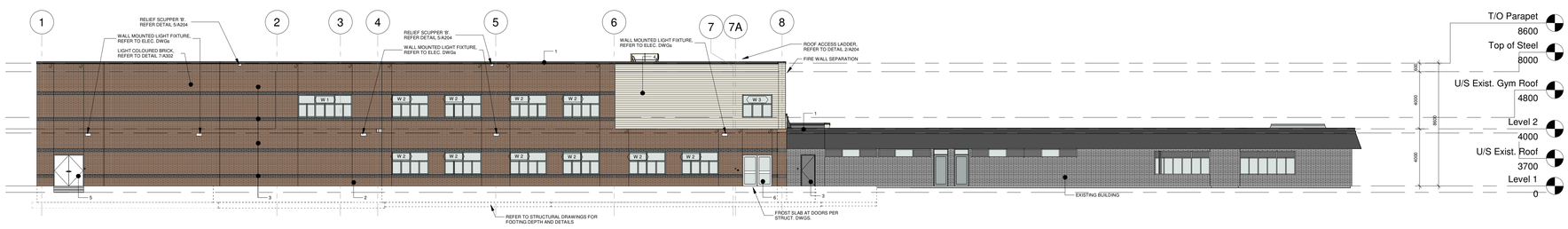


1 A302 North Elevation
1 : 150



2 A302 South Elevation
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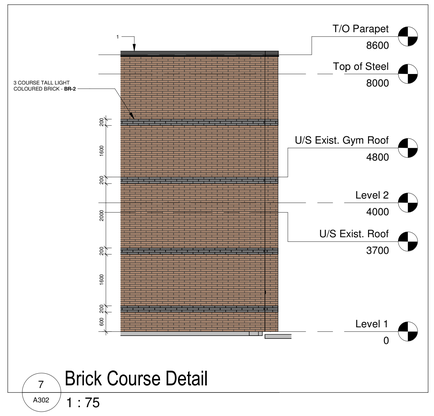

7 A302 Brick Course Detail
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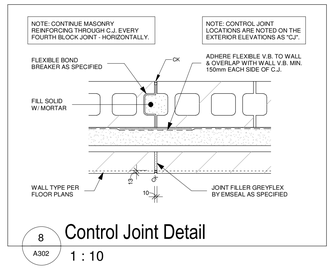
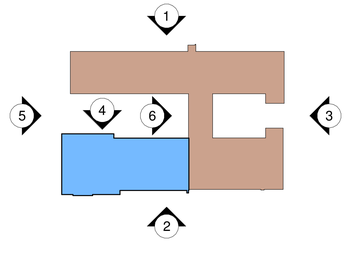


8 A302 Control Joint Detail
1 : 10



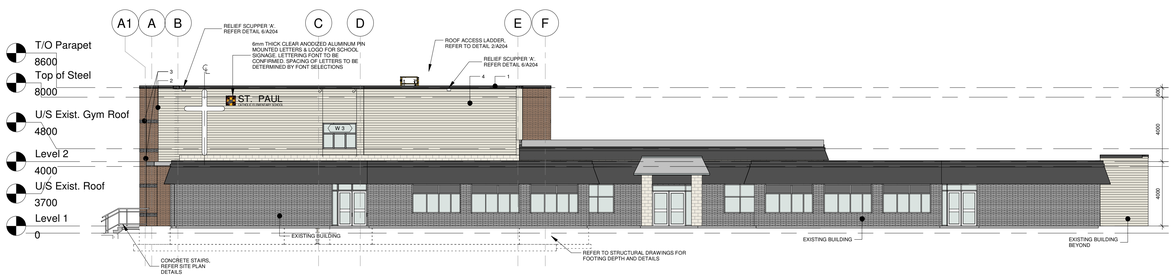
ELEVATION KEY PLAN:

EXTERIOR ELEVATIONS GENERAL NOTES:

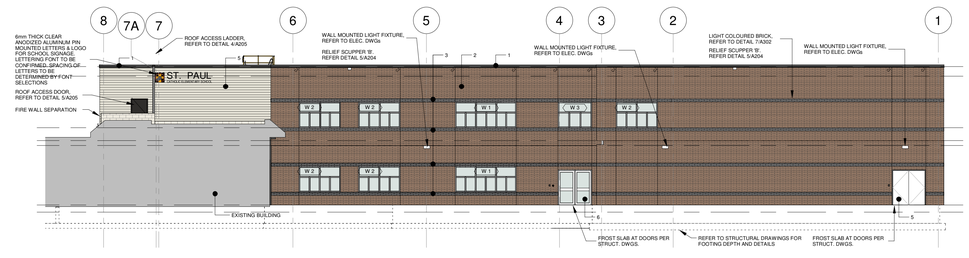
1. FOUNDATION WALL & FOOTINGS ARE PER THE STRUCTURAL DRAWING. REFER TO THE STRUCTURAL DRAWINGS FOR THE REQUIRED DEPTHS, SIZES, REINFORCED ETC.
2. LOCATIONS OF ALL MECHANICAL & ELECTRICAL ITEMS MUST BE COORDINATED WITH THE MECHANICAL AND ELECTRICAL DRAWINGS. (i.e HOSEBIBS, GRILLES, LIGHTS etc.) ON SITE WITH ALL TRADES INVOLVED IN THE WORK.
3. CJ - CONTROL JOINT LOCATIONS.

EXTERIOR FINISHES LEGEND:

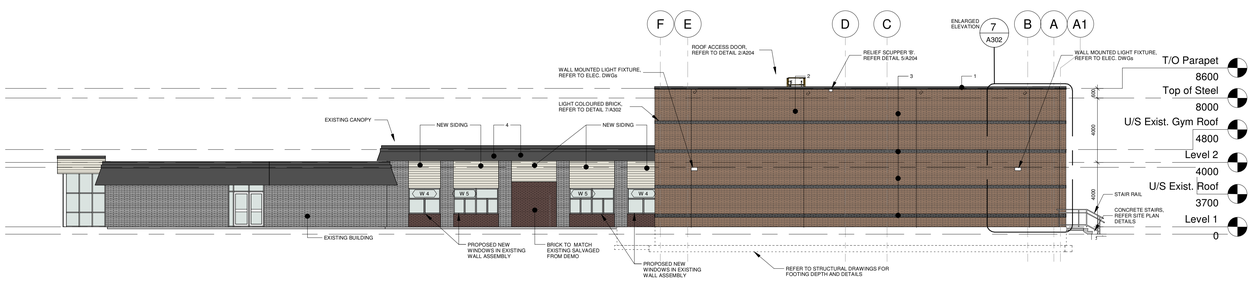
1. PREFINISHED METAL ROOF EDGE FLASHING
2. BRICK COLOUR A
3. BRICK COLOUR B
4. PREFINISHED ALUMINUM SIDING
5. HM DOOR AND FRAME PER SCHEDULE
6. PREFINISHED ALUMINUM DOOR & FRAME



3 A302 East Elevation
1 : 150



4 A302 North Elevation - Int. Courtyard
1 : 150



5 A302 West Elevation
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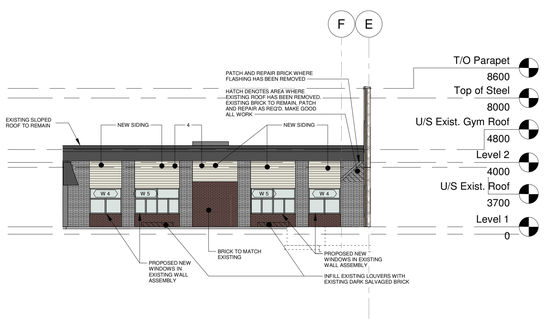

6 A302 Partial West Elevation
1 : 150

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5	Issued for Site Plan Resubmission	2026-03-30
4	Issued for Permit Resubmission	2026-01-26
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Building Elevations

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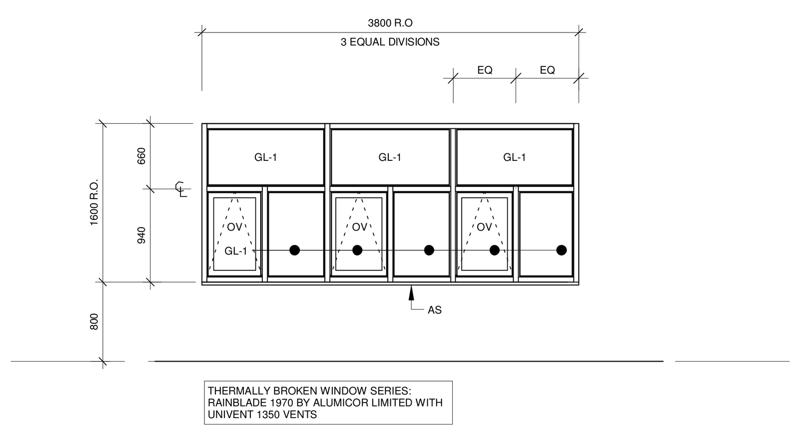
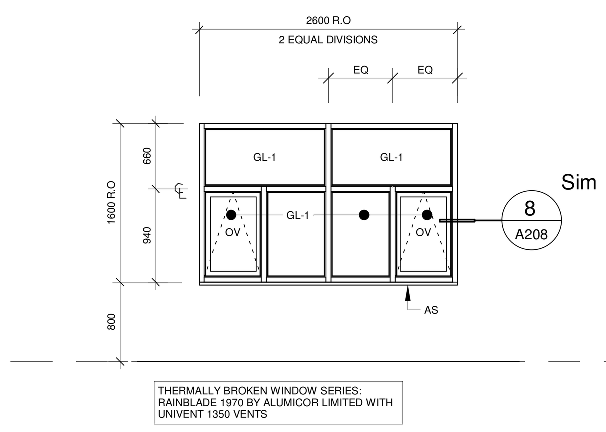


1 A303 **W1 - Alum**
1 : 50



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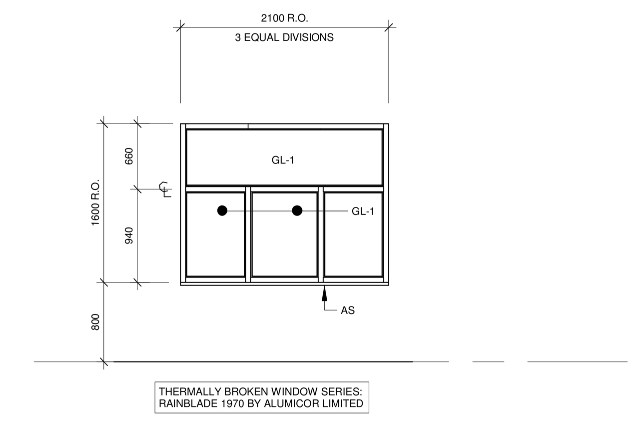

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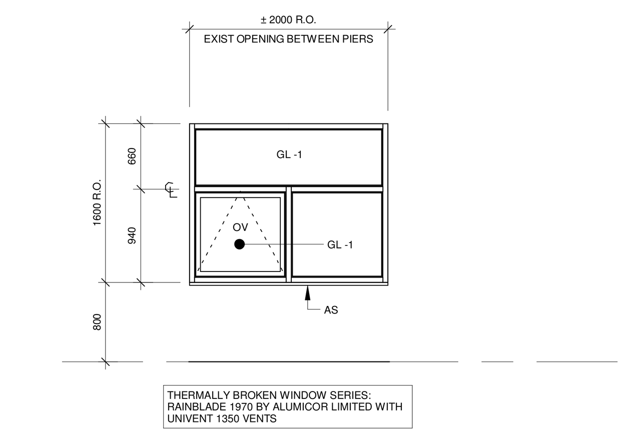

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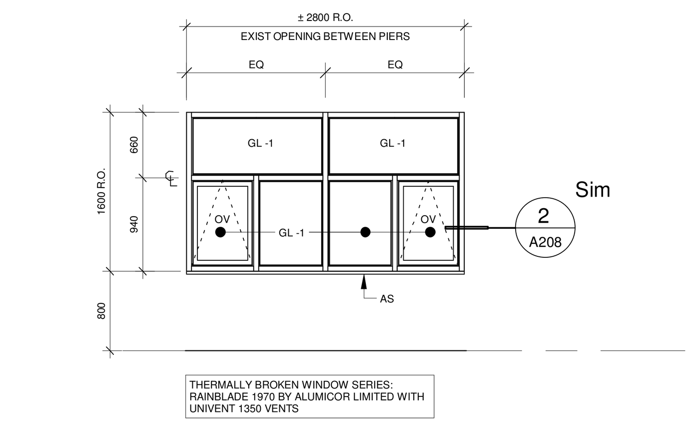

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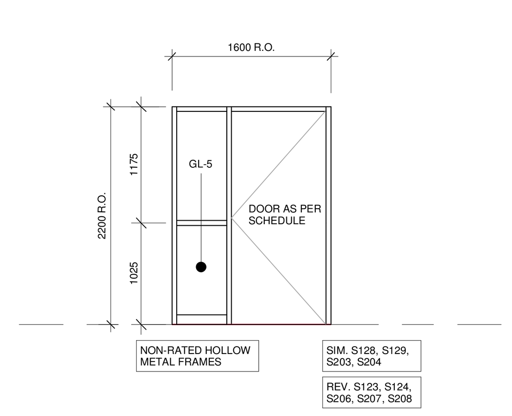

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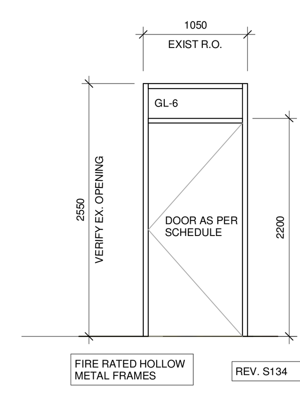

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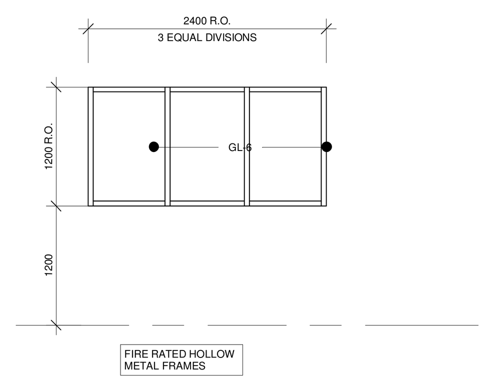

10 A303 **S205 - HM**
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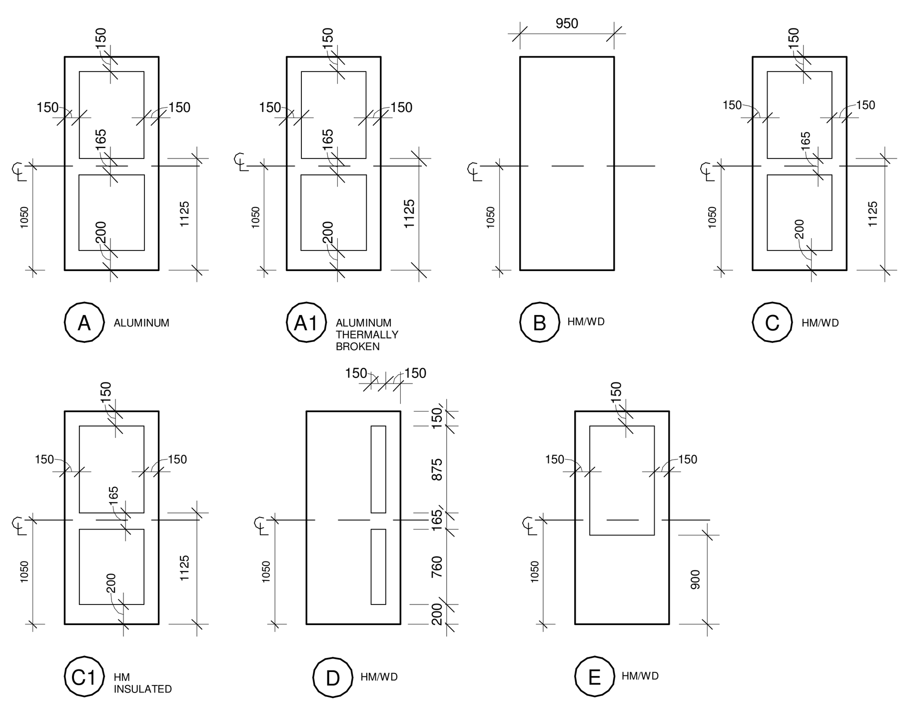


GENERAL NOTES:

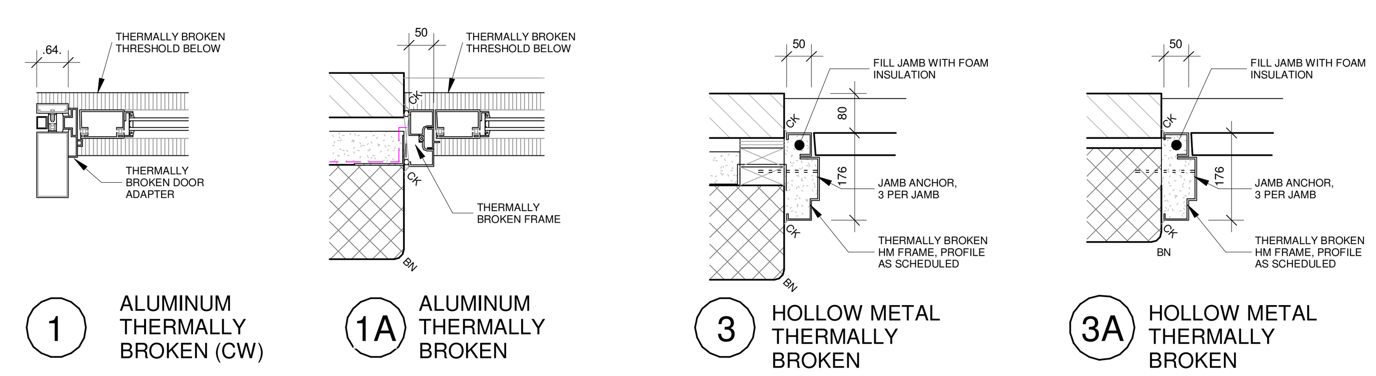
1. FOR DOOR & FRAME TYPES REFER TO SPECIFICATION FOR SCHEDULE
2. FOR TYPICAL CONSTRUCTION DETAILS FOR DOORS REFER TO DRAWINGS.
3. ALL HM FRAMES SET IN MASONRY TO BE FILLED SOLID WITH MORTAR UNLESS NOTED OTHERWISE.
4. ALL EXTERIOR DOORS & FRAMES TO BE FILLED WITH INSULATION AS SPECIFIED.
5. FOR GLASS TYPES REFER TO SCHEDULE.
6. DOOR & GLASS PROFILES & SIZES ARE SHOWN DIAGRAMMATIC ONLY. ACTUAL SIZES TO COMPLY WITH THE MAXIMUM LIMITS AS PERMITTED UNDER THE O.B.C. FOR INDIVIDUAL DOOR REQUIREMENTS.
7. FOR METAL STUD SIZES AND GYPSUM BOARD THICKNESSES, REFER TO WALL TYPES LEGEND AND DETAIL DRAWINGS.
8. FOR DOORS AND SCREENS WITH FULL HEIGHT GLAZING (NO HORIZONTAL MULLIONS) PROVIDE A 50mm WIDE OPAQUE FILM FOR THE WIDTH OF THE GLAZING MOUNTED HORIZONTALLY AT 1350mm - 1500mm ABOVE FLOOR LEVEL PER O.B.C. 3.8.3.3.15.

ABBREVIATIONS:

AB	- ALUMINUM BASE
ALUM	- ALUMINUM
AP	- ALUMINUM PANEL
AR	- ALUMINUM RAIL (BOTTOM/TOP)
AS	- ALUMINUM SILL
BFD	- BARRIER FREE DOOR
CR	- CARD READER
DA	- THERMALLY BROKEN DOOR ADAPTOR
DC	- DOOR CONTACT
DO	- DOOR OPERATOR
EQ.	- EQUAL
E.J.	- EXPANSION JOINT
ES	- ELECTRIFIED STRIKE
GF	- GLASS FILM
HM	- HOLLOW METAL
HMB	- HOLLOW METAL BASE
IAB	- INSULATED ALUMINUM BASE
IME	- INTERNAL MULLION EXTENSION
KPL	- KICK PLATE
ME	- MULLION EXTENSION
OV	- OPERABLE VENT C/W INSECT SCREEN
REX	- REQUEST TO EXIT DEVICE
RO	- ROUGH OPENING
SH	- SPRINKLER HEAD
ST	- STAIN
SP	- SPECIAL TYPE OR FINISH (REFER TO SPECIFICATIONS)
T	- THERMALLY BROKEN THRESHOLD
VIS	- VISUAL IMPEDIMENT STRIP

NOTES:

- REFER TO SPECIFICATION SECTION 08 80 00 - GLAZING FOR GL TYPES.
- SUPPLY INTERNAL MULLION REINFORCING AS REQUIRED TO MAINTAIN MULLION SIZE AS DETAILED. TYPICALLY AT ALL CURTAIN WALL UNITS.
- SECURELY FASTEN THE HEADS OF ALL SCREENS TO THE STRUCTURE PROVIDED.
- REFER TO FLOOR PLANS & ELEVATIONS FOR ALL LOCATIONS, QUANTITIES & ORIENTATIONS.
- AT ALL IME LOCATIONS PROVIDE FOR ROOF DEFLECTION IN CONNECTION DETAIL.
- PROVIDE DOUBLE VERTICAL MULLIONS AS REQUIRED AT LONG RIBBON EXPANSES TO BREAK WINDOW INTO MANAGEABLE PORTIONS
- NOTE: FULLY SITE MEASURE & SITE VERIFY ALL DIMENSIONS BEFORE FABRICATION OF ANY & ALL UNITS.

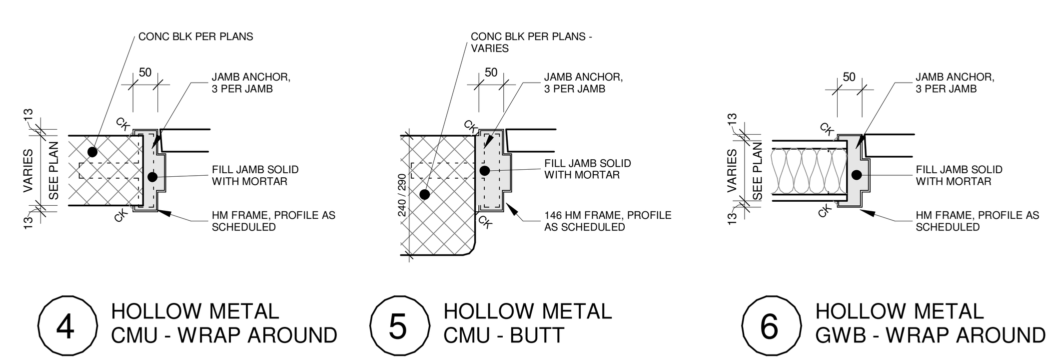


1 ALUMINUM THERMALLY BROKEN (CW)

1A ALUMINUM THERMALLY BROKEN

3 HOLLOW METAL THERMALLY BROKEN

3A HOLLOW METAL THERMALLY BROKEN



4 HOLLOW METAL CMU - WRAP AROUND

5 HOLLOW METAL CMU - BUTT

6 HOLLOW METAL GWB - WRAP AROUND

GENERAL NOTES:

1. FULLY SITE MEASURE & SITE VERIFY ALL OPENING DIMENSIONS BEFORE FABRICATION OF ANY UNITS. GC TO COORDINATE FRAME SIZES SHOWN WITH TOLERANCES AND CLEARANCES FOR ROUGH OPENINGS AS SPECIFIED BY THE MANUFACTURER.
2. SECURELY FASTEN THE HEADS OF ALL SCREENS TO THE STRUCTURE PROVIDED.
3. REFER TO FLOOR PLANS & ELEVATIONS FOR ALL LOCATIONS & QUANTITIES.
4. AT ALL IMR & IME LOCATIONS PROVIDE FOR DEFLECTION IN CONNECTION DETAIL.
5. REFER TO SPECIFICATION SECTION 08 44 00 - ALUMINUM WORK, FOR MULLION, EXTRUSION, DOOR, PANEL AND SHEET FINISHES.
6. REFER TO 'SCREEN WALL - SIMILAR TYPE SCHEDULE' FOR SIZES OF SIMILAR SCREEN WALL ASSEMBLIES THAT ARE NOT SPECIFICALLY DEPICTED IN ELEVATION VIEW.
7. REFER TO 'SCREEN WALL - FIRE SEP SCHEDULE' & 'A201 - FIRE SEPARATION KEY PLANS, LEGENDS & DETAILS' FOR REQUIRED FIRE SEPARATION RATINGS FOR THE GLAZED WALL ASSEMBLIES LOCATED WITHIN A FIRE SEPARATION
8. GLAZED WALL ASSEMBLIES LOCATED IN FIRE SEPARATIONS ARE TO BE PROVIDED WITH SPRINKLER PROTECTION (BY OTHERS) FOR THE FULL DURATION OF THE REQUIRED F.R.R.

ABBREVIATIONS:

AB	- ALUMINUM BASE
AL	- ALUMINUM
AP	- ALUMINUM PANEL
AR	- ALUMINUM RAIL
AS	- ALUMINUM SILL
ACP	- ALUMINUM CORNER PANEL
ASP	- ALUMINUM SPANDREL PANEL
DO	- DOOR OPERATOR
DA	- DOOR ADAPTOR
HMB	- HOLLOW METAL BASE
HMP	- HOLLOW METAL PANEL
IAP	- INSULATED ALUMINUM PANEL
IME	- INTERNAL MULLION EXTENSION
IMR	- INTERNAL MULLION REINFORCING
OV	- OPENING VENT C/W INSECT SCREEN
RCM	- REMOVABLE CENTER MULLION
RO	- ROUGH OPENING
SSG	- STRUCTURAL SILICONE GLAZING
T	- THERMALLY BROKEN THRESHOLD
VIS	- VISUAL IMPEDIMENT STRIP

REFER TO SPECIFICATION SECTION 08 80 00 - GLAZING FOR GL TYPES.

GLAZING TYPE LEGEND:

GL-1 (TYPICAL INSULATED EXTERIOR):
6mm CLEAR TEMPERED EXTERIOR LITE,
LOW-E COATING ON SURFACE #2,
ARGON FILLED AIR SPACE,
6mm CLEAR TEMPERED INTERIOR LIGHT,
25mm OVERALL THICKNESS.

GL-2 (TYPICAL AT ENTRANCE DOORS)
6mm CLEAR TEMPERED EXTERIOR LITE,
LOW-E COATING ON SURFACE #2,
ARGON FILLED AIR SPACE, 7mm CLEAR
LAMINATED SAFETY GLASS INTERIOR LITE,
25mm OVERALL THICKNESS.

GL-3: 6mm THICK SPANDREL GLASS WITH
GALVANIZED METAL BACK-PAN FILLED
WITH SEMI-RIGID INSULATION.
PROVIDE PREFIN. ALUMINUM PANEL
TO MATCH C.W. FRAMES AT ALL
EXPOSED BACK-PAN LOCATIONS

GL-4: 6mm CLEAR TEMPERED GLASS

GL-5: 6mm CLEAR TEMPERED/LAMINATED GLASS

GL-6: 5mm FIRE RATED GLASS

No.	Revision	Date
4	Issued for Permit Resubmission & Tender	2026-04-20
3	Issued for Permit Resubmission	2026-01-26
2	Issued for Permit	2025-09-15
1	Issued for Costing	2025-09-08

Orientation

Seal

ONTARIO ASSOCIATION OF ARCHITECTS
RYAN STITT
LICENCE
7583

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Project Information

WCDSB St. Paul C.E.S. Addition & Renovation

45 Birchcliff Avenue, Kitchener, ON N2M 4V7

For
Waterloo Catholic District School Board

Drawing Title

Window & Door Schedule

Date	2026-04-20	Project No	Drawing No
Drawn by	FP	25012	A303
Scale	As indicated		

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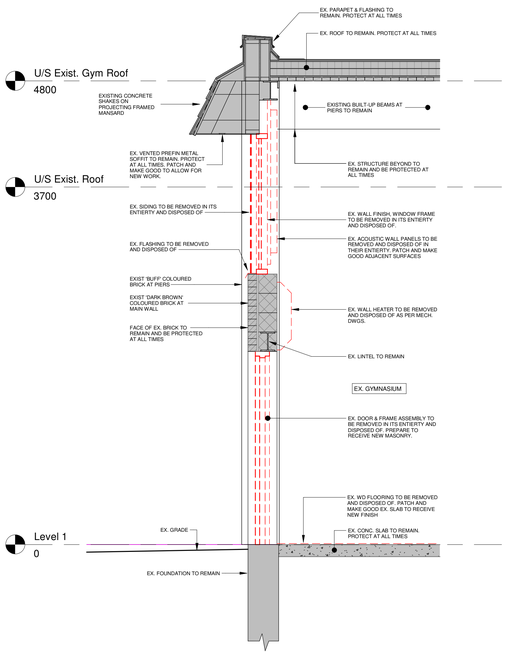

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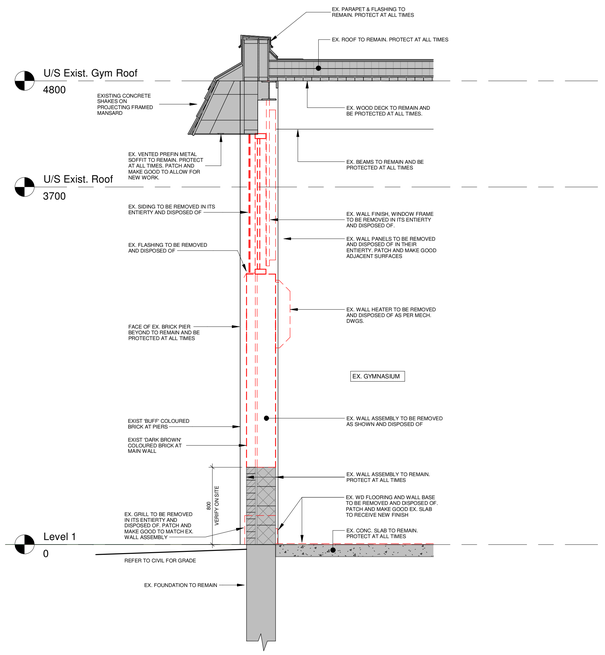

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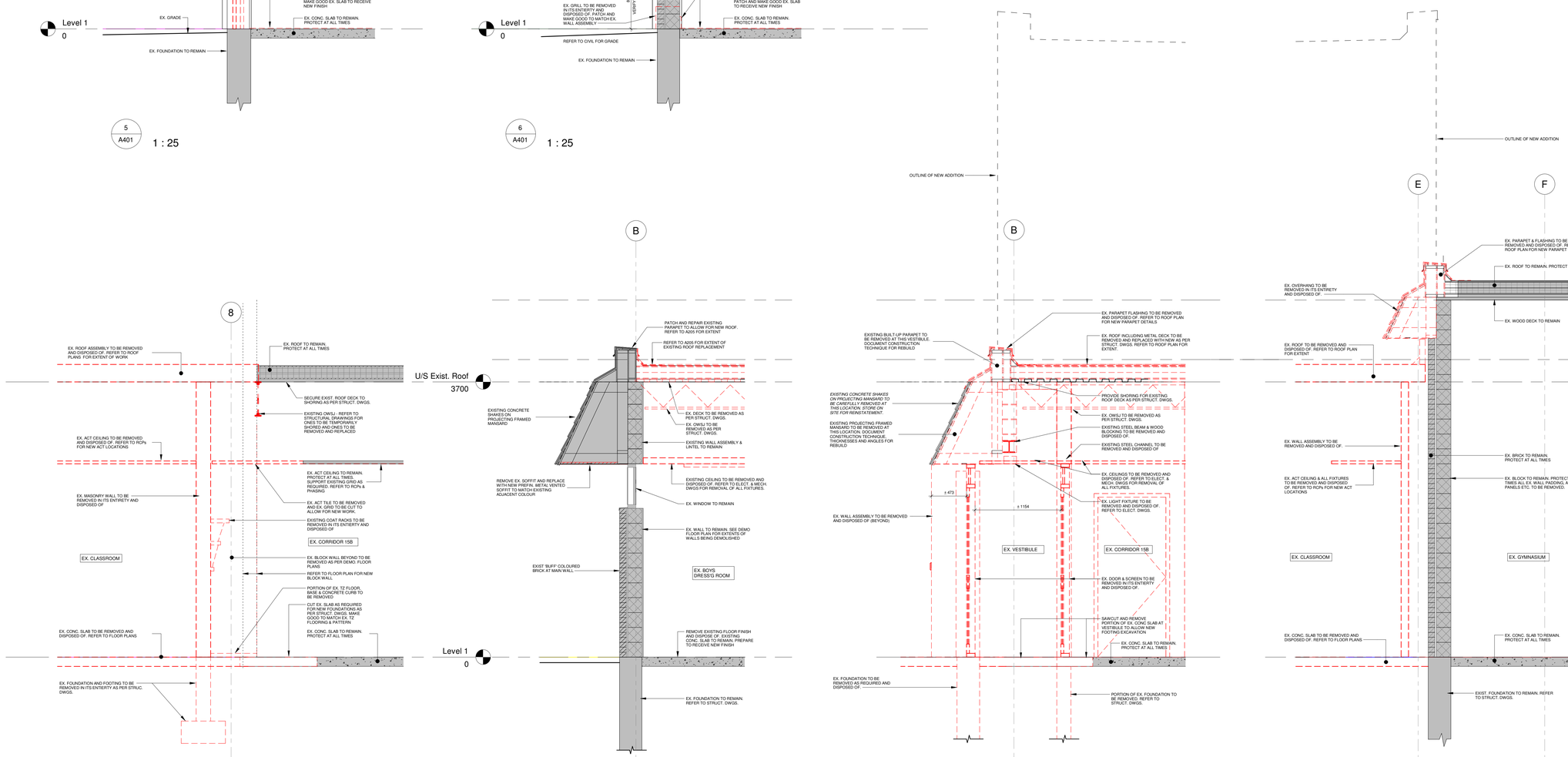

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A401
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A401
1 : 25

4
A401
1 : 25

No.	Revision	Date
4	Issued for Permit Resubmission & Tender	2026-04-20
3	Issued for Permit Resubmission	2026-01-26
2	Issued for Permit	2025-09-15
1	Issued for Costing	2025-09-08

Orientation

Seal

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RYAN STITT
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Project Information

WCDSB St. Paul C.E.S. Addition & Renovation

45 Birchcliff Avenue, Kitchener, ON N2M 4V7

For

Waterloo Catholic District School Board

Drawing Title

Wall Sections - Demo

Date	2026-04-20	Project No	Drawing No
Drawn by	FP	25012	A401
Scale	1 : 25		

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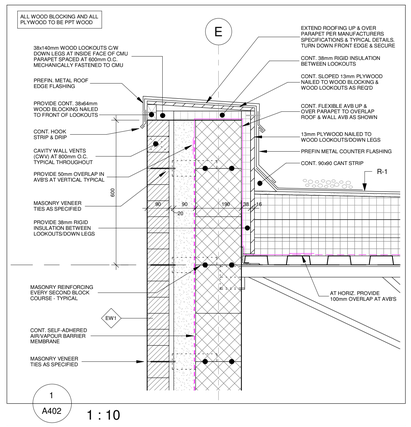

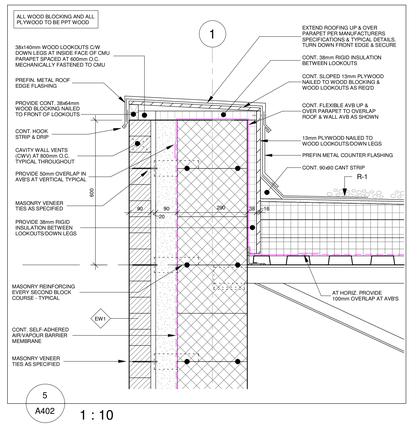

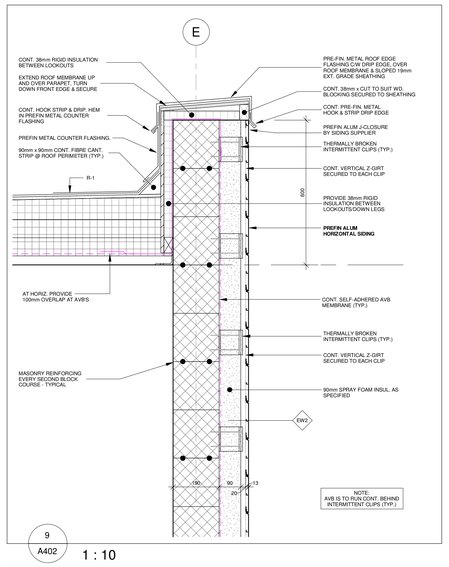

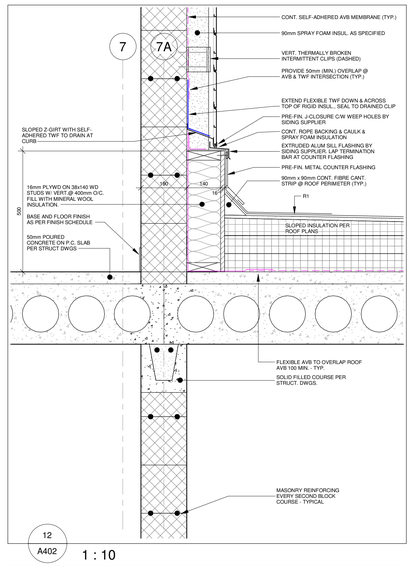

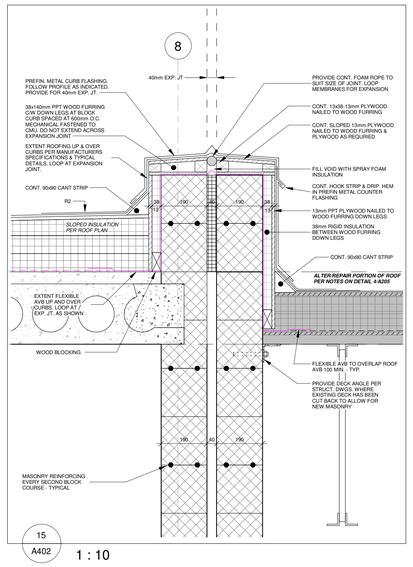

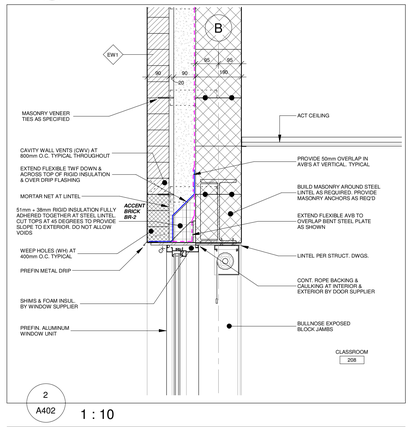

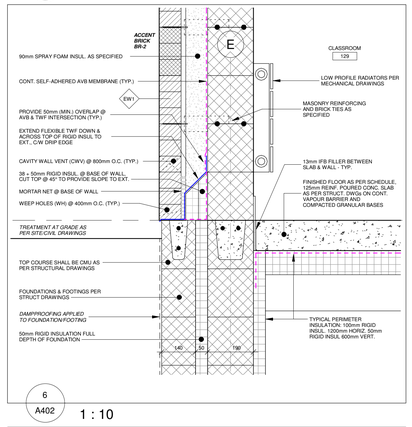

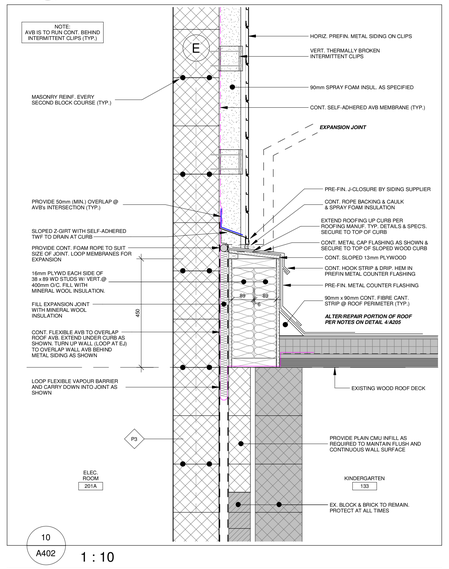

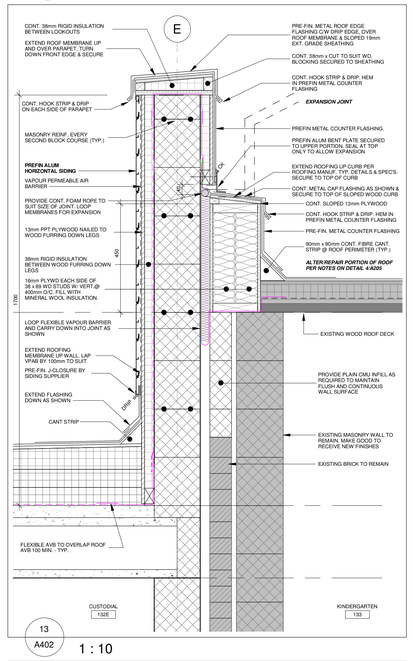

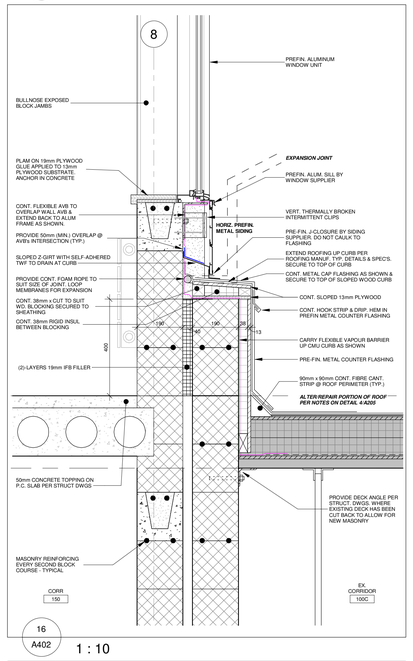

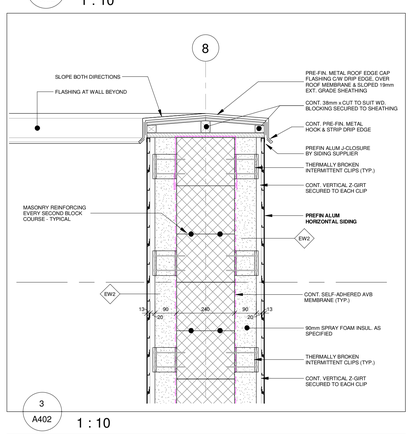

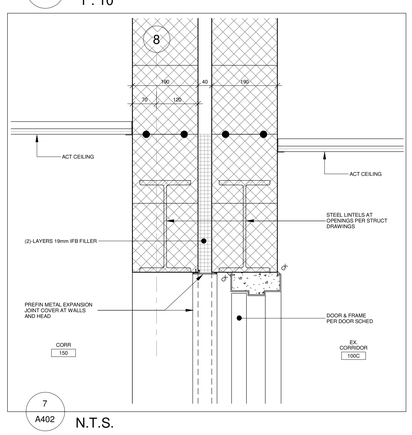

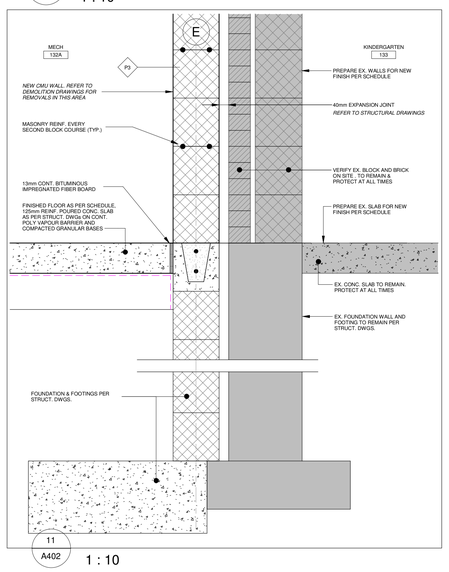

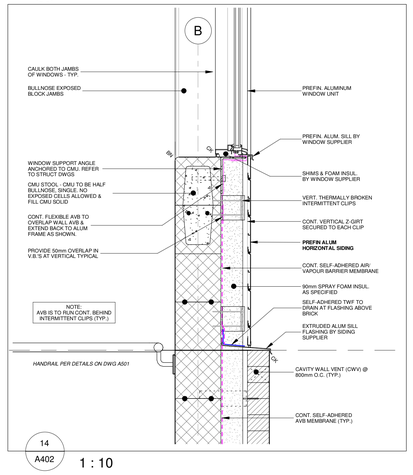

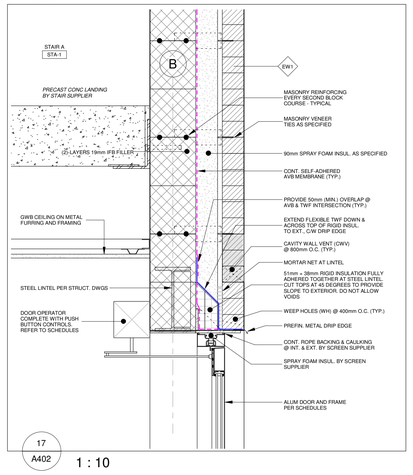

No.	Revision	Date
4	Issued for Permit Resubmission & Tender	2026-04-20
3	Issued for Permit Resubmission	2026-01-26
2	Issued for Permit	2025-09-15
1	Issued for Costing	2025-09-08

Orientation

Seal

ONTARIO ASSOCIATION OF ARCHITECTS — FRANK STITT — LICENCE 7583

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Project Information

WCDSB St. Paul C.E.S. Addition & Renovation

45 Birchcliff Avenue, Kitchener, ON N2M 4V7

For
Waterloo Catholic District School Board

Drawing Title

Section Details

Date	2026-04-20	Project No	Drawing No
Drawn by	FP	25012	A402
Scale	As indicated		

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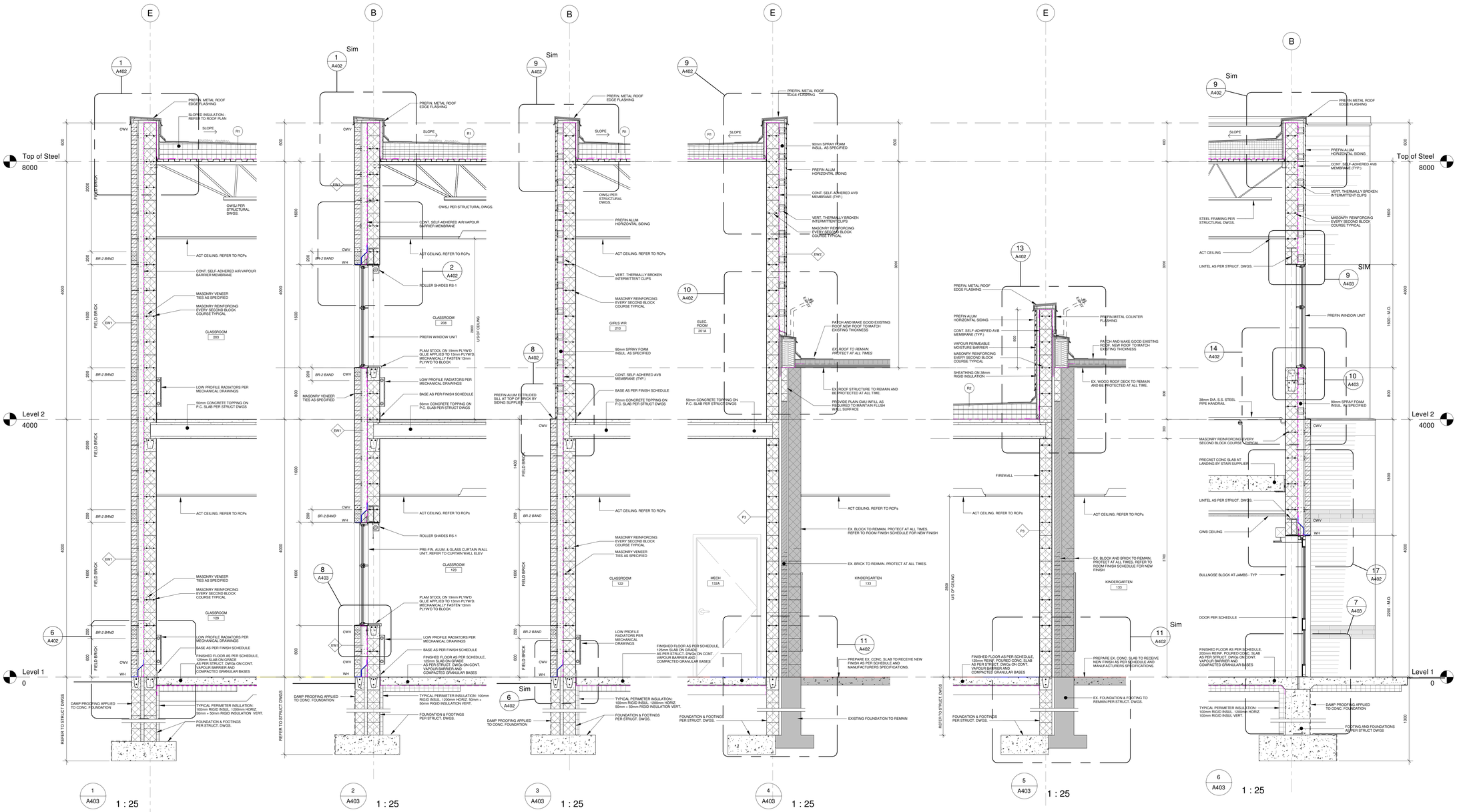

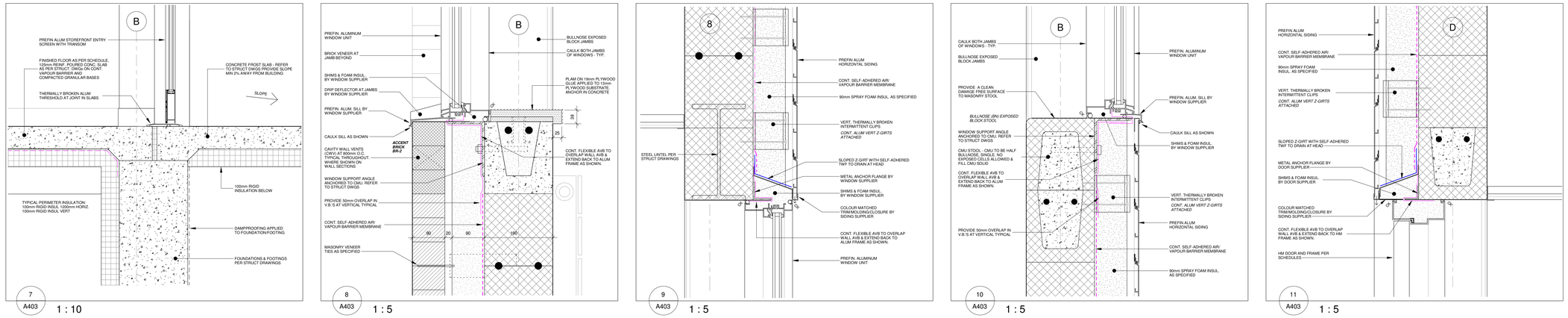

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Orientation

Seal

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RYAN STITT
LICENCE
7583

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Project Information

WCDSB St. Paul C.E.S. Addition & Renovation

45 Birchcliff Avenue, Kitchener, ON N2M 4V7

For

Waterloo Catholic District School Board

Drawing Title

Wall Sections & Details

Date	2026-04-20	Project No	Drawing No
Drawn by	FP	25012	A403
Scale	As indicated		

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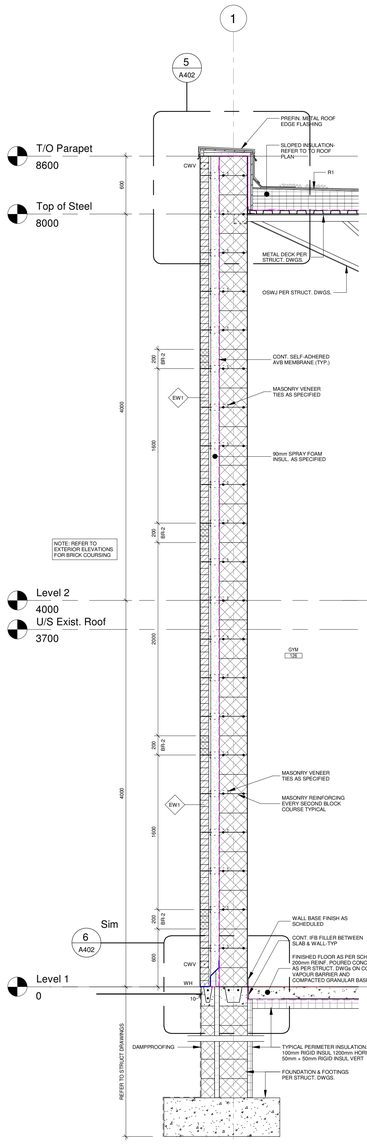

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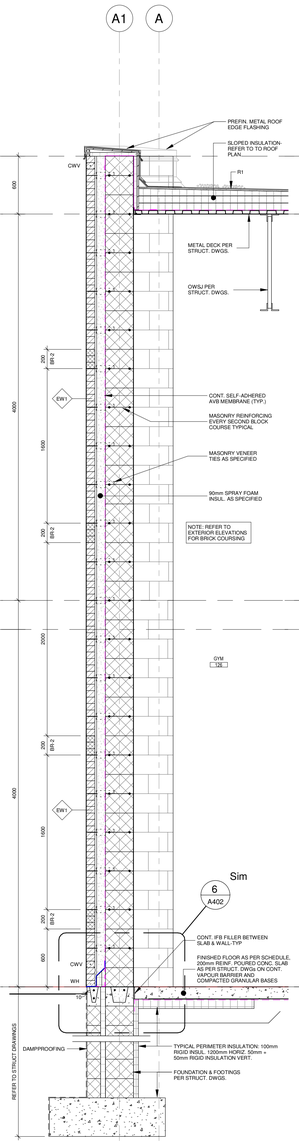

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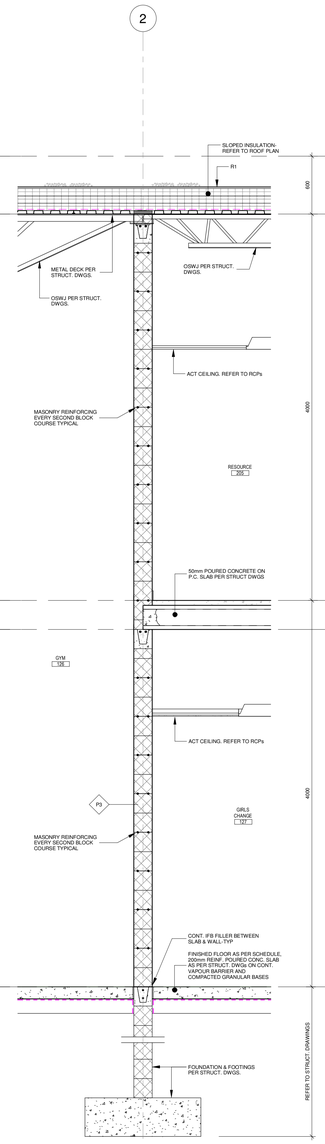

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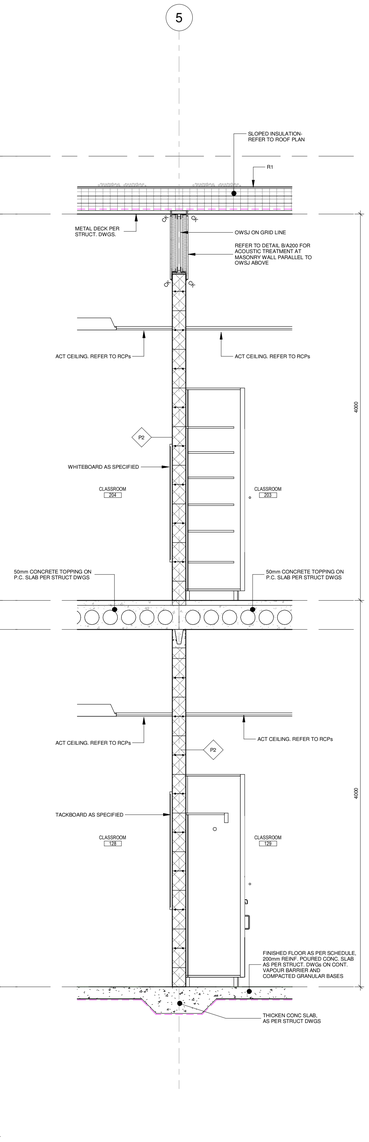

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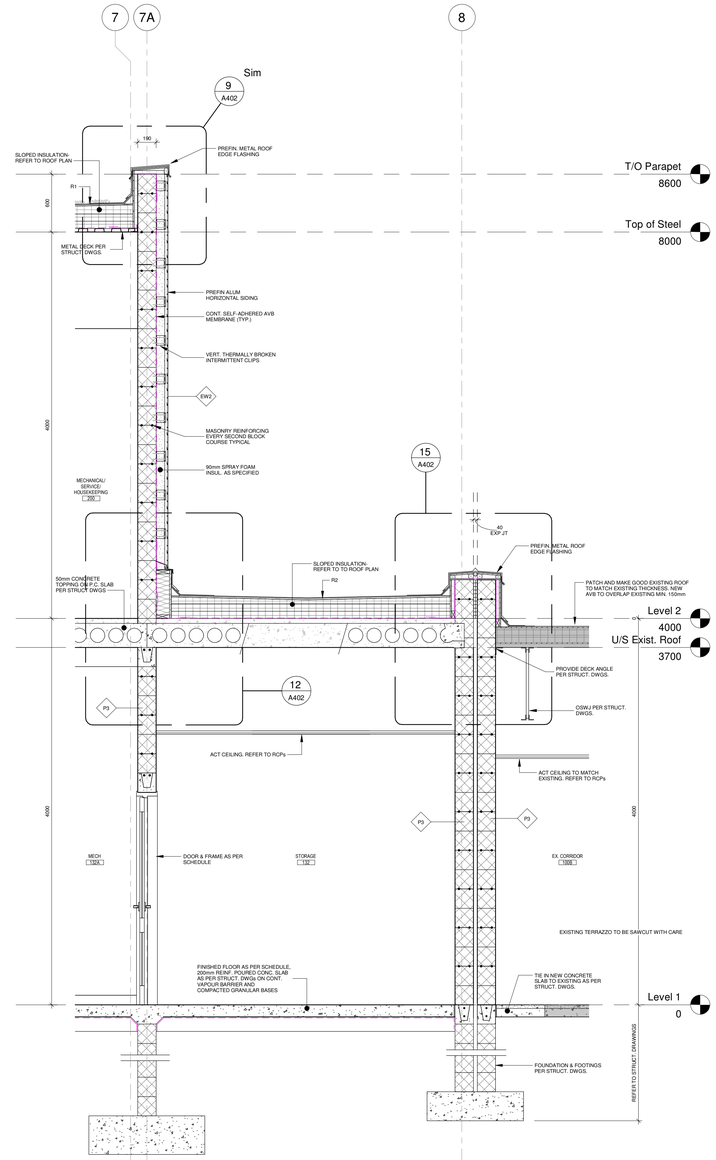

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No.	Revision	Date
4	Issued for Permit Resubmission & Tender	2026-04-20
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Orientation

Seal

ONTARIO ASSOCIATION OF ARCHITECTS
RYAN STITT
LICENCE
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Project Information

WCDSB St. Paul C.E.S. Addition & Renovation

45 Birchcliff Avenue, Kitchener, ON N2M 4V7

For
Waterloo Catholic District School Board

Drawing Title

Wall Sections

Date	Project No	Drawing No
2026-04-20	25012	A404
Drawn by FP		
Scale 1 : 25		

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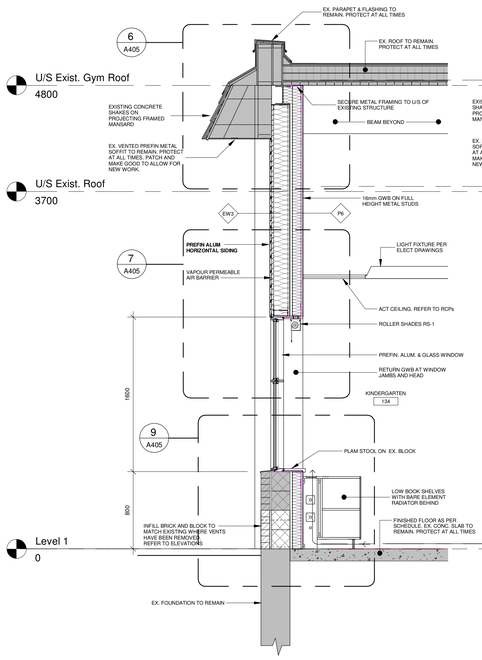

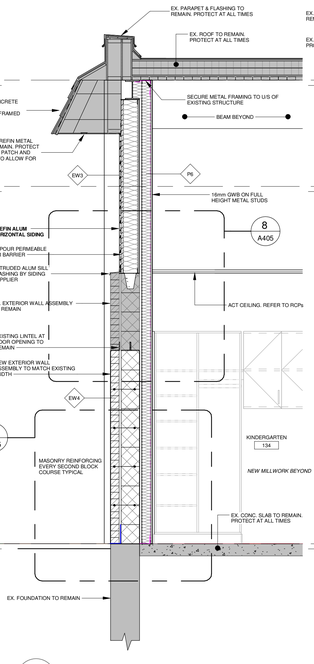

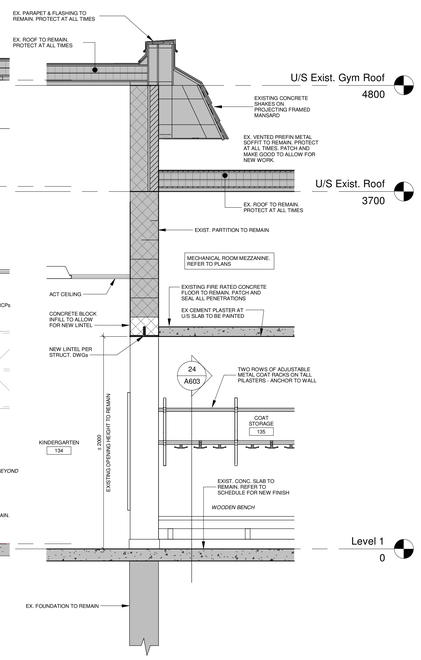

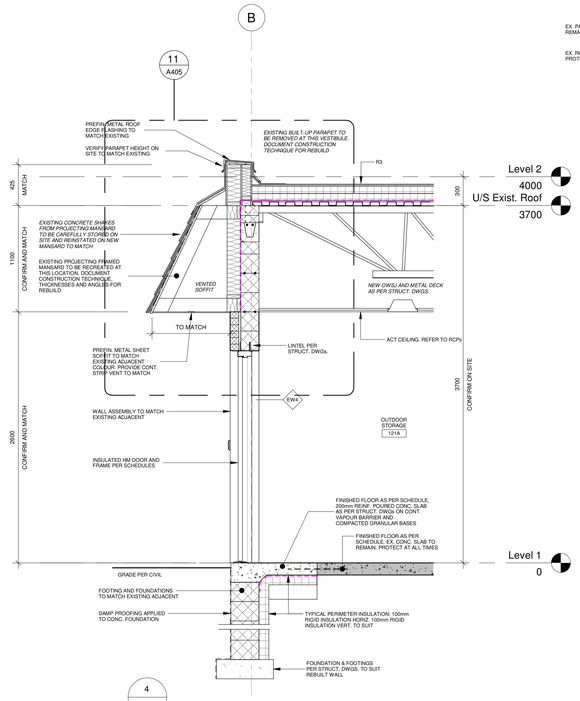

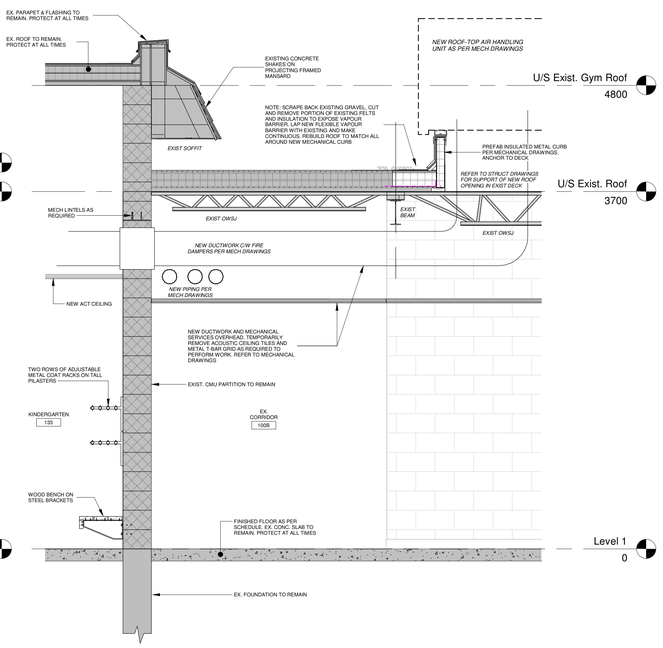

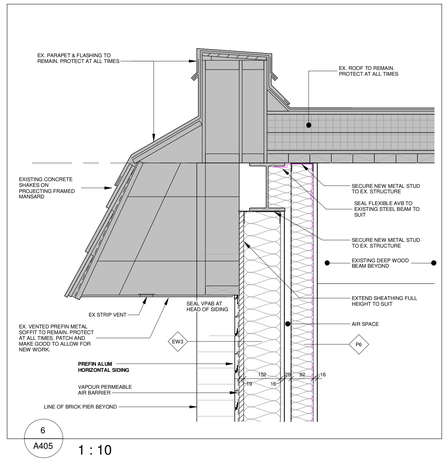

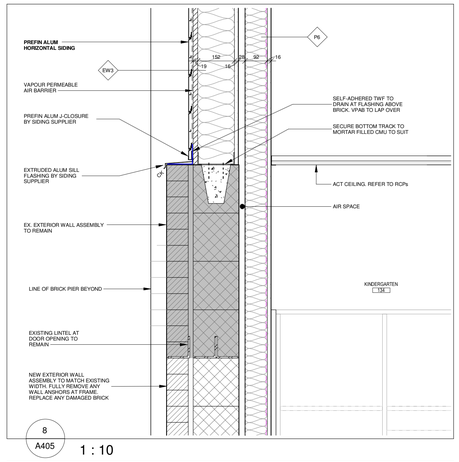

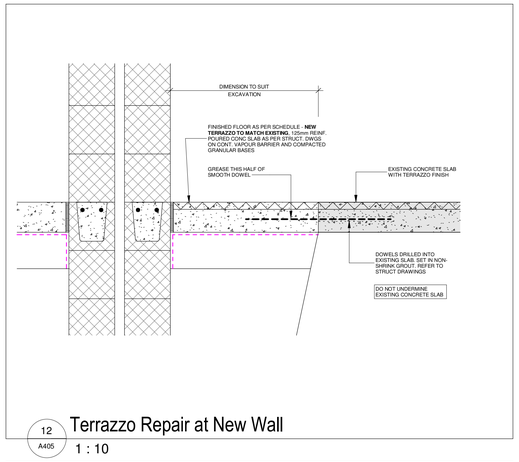

12 A405 Terrazzo Repair at New Wall
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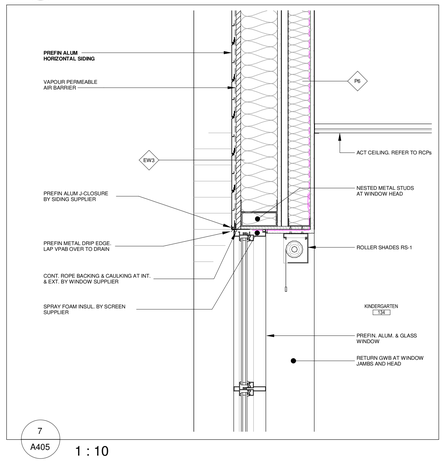

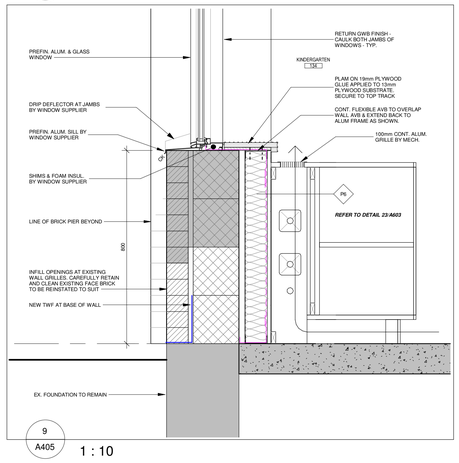

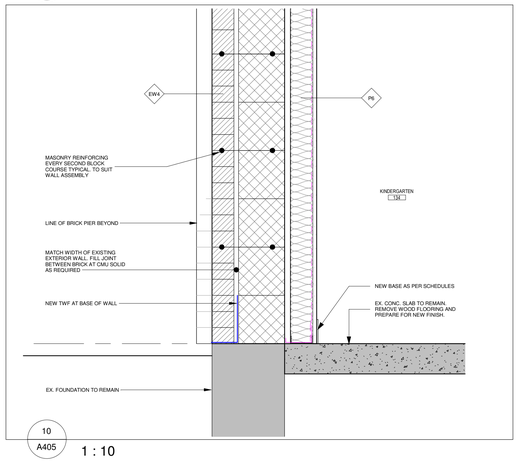

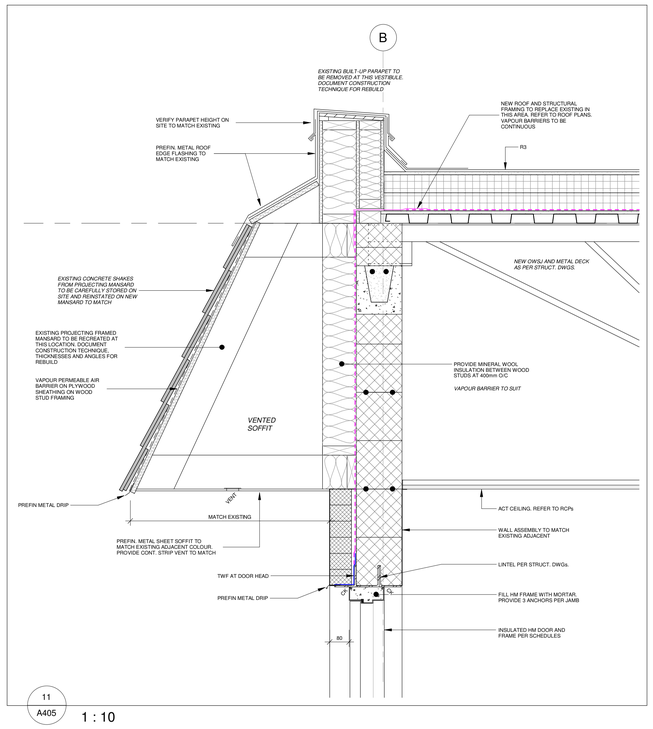

No.	Revision	Date
4	Issued for Permit Resubmission & Tender	2026-04-20
3	Issued for Permit Resubmission	2026-01-26
2	Issued for Permit	2025-09-15
1	Issued for Costing	2025-09-08

Orientation

Seal

ONTARIO ASSOCIATION OF ARCHITECTS
RYAN STITT
LICENCE
7593

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Project Information

WCDSB St. Paul C.E.S. Addition & Renovation

45 Birchcliff Avenue, Kitchener, ON N2M 4V7

For

Waterloo Catholic District School Board

Drawing Title

Wall Sections & Details

Date	2026-04-20	Project No	Drawing No
Drawn by	FP	25012	A405
Scale	As indicated		

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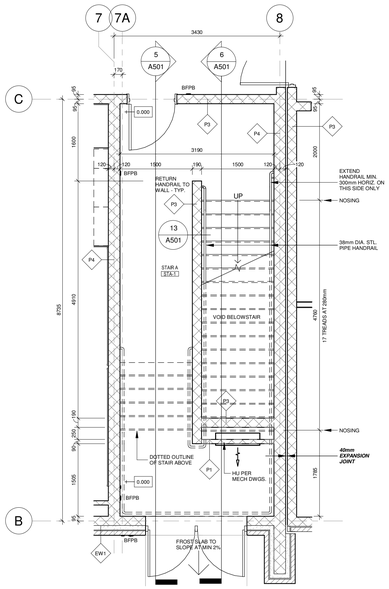
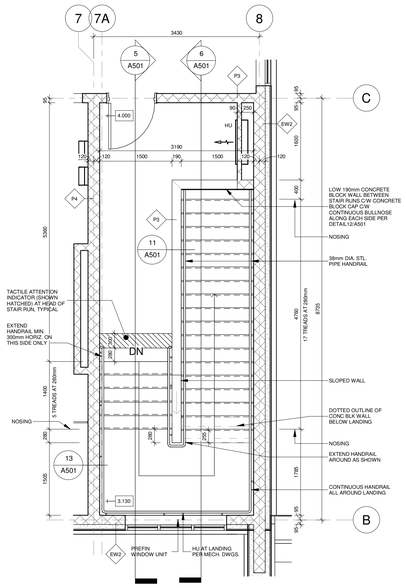


1 A501 Stair A - Enlarged Plan - Level 1
1 : 50



2 A501 Stair A - Enlarged Plan - Level 2
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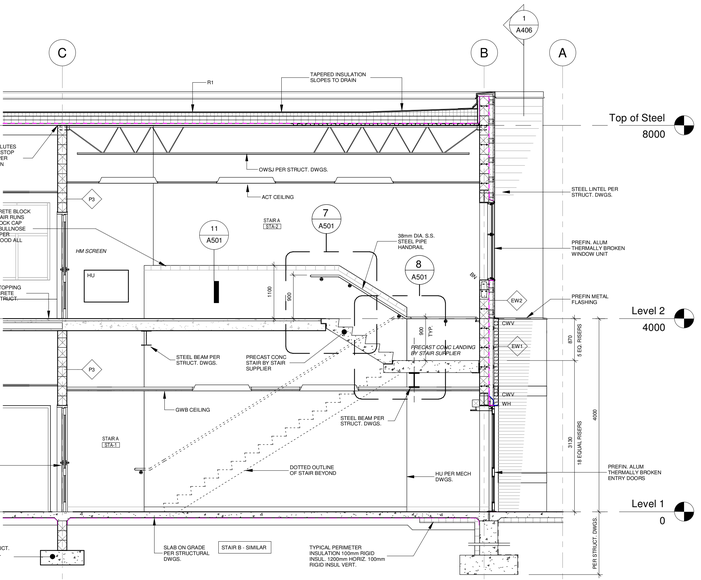

5 A501 Stair - Section
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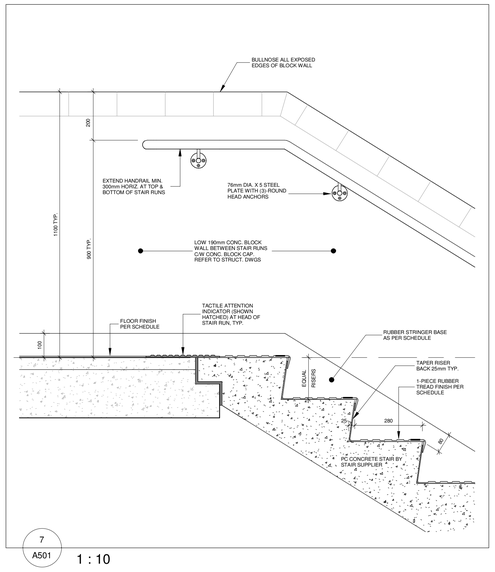
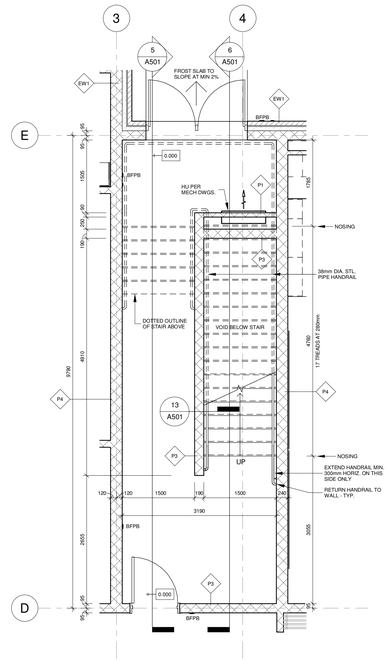


7 A501 1 : 10



3 A501 Stair B - Enlarged Plan - Level 1
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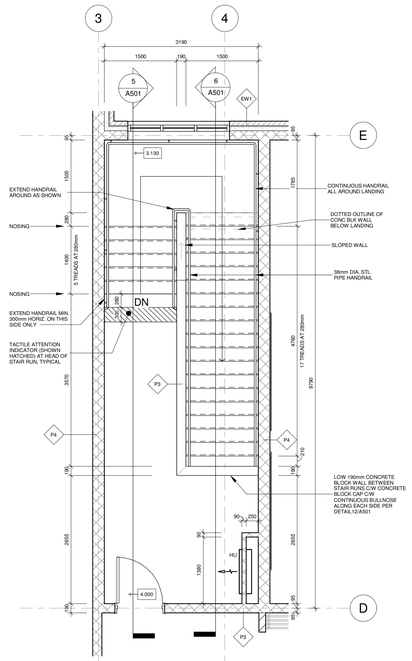

4 A501 Stair B - Enlarged Plan - Level 2
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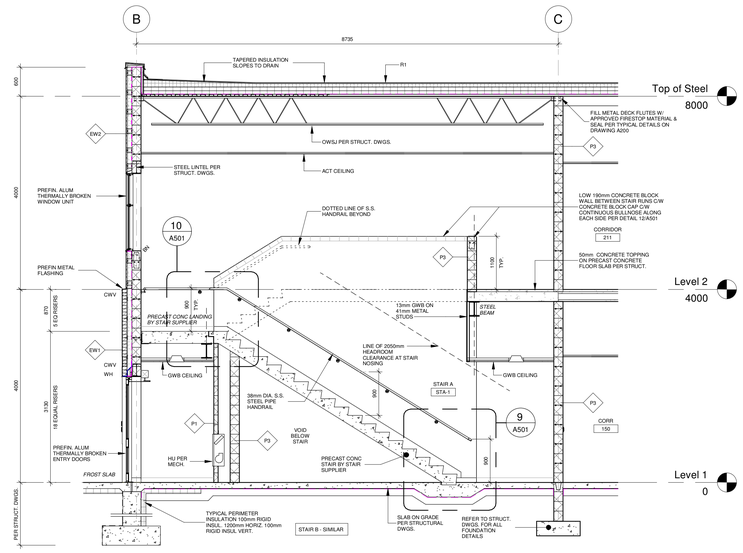

6 A501 Stair - Section
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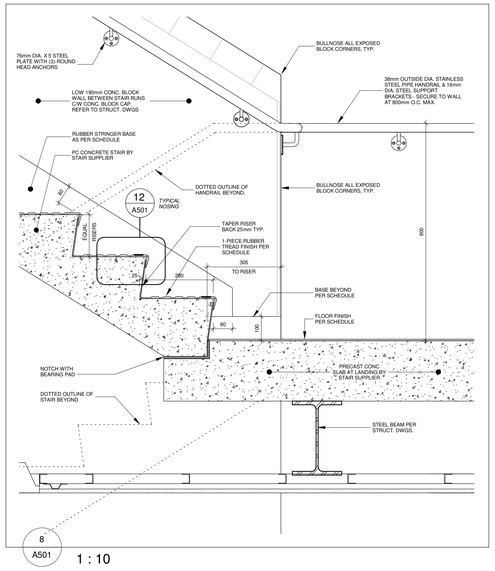
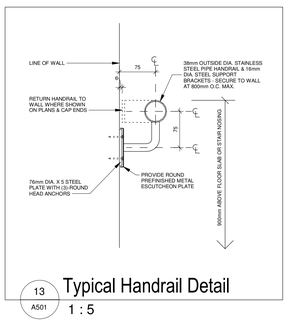


8 A501 1 : 10



13 A501 Typical Handrail Detail
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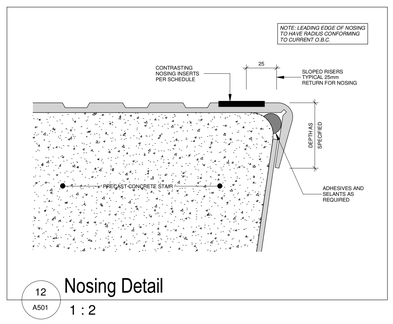

12 A501 Nosing Detail
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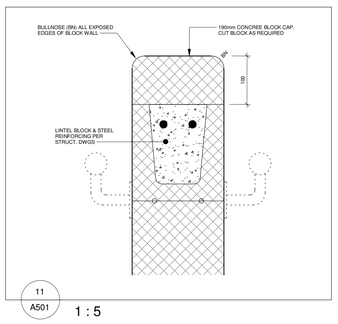
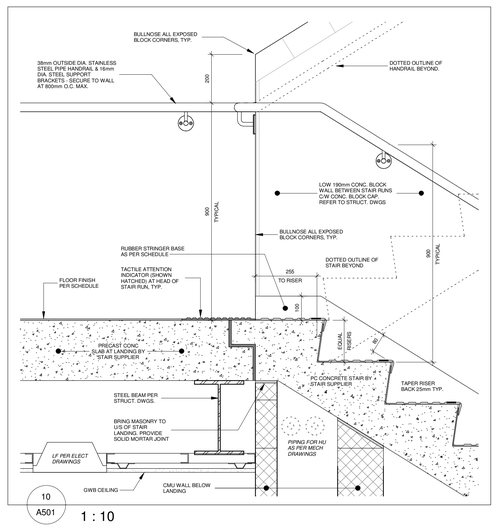
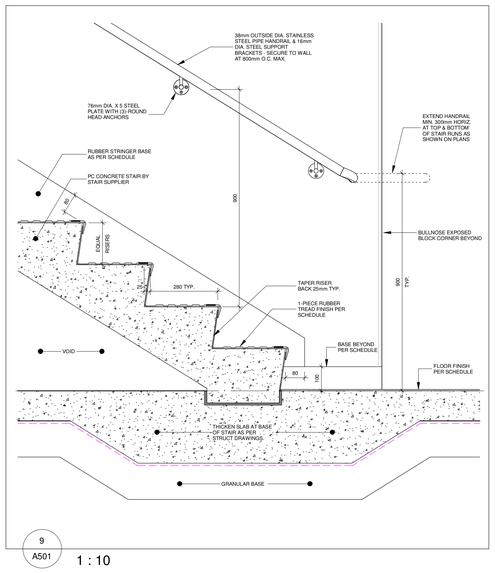


11 A501 1 : 5



10 A501 1 : 10



9 A501 1 : 10

No.	Revision	Date
4	Issued for Permit Resubmission & Tender	2026-04-20
3	Issued for Permit Resubmission	2026-01-26
2	Issued for Permit	2025-09-15
1	Issued for Costing	2025-09-08

Orientation

Seal

ONTARIO ASSOCIATION OF ARCHITECTS
RYAN STITT
LICENCE
7583

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Project Information

WCDSB St. Paul C.E.S. Addition & Renovation

45 Birchcliff Avenue, Kitchener, ON N2M 4V7

For

Waterloo Catholic District School Board

Drawing Title

Stairs A,B & Details

Date	2026-04-20	Project No	Drawing No
Drawn by	FP	25012	A501
Scale	As indicated		

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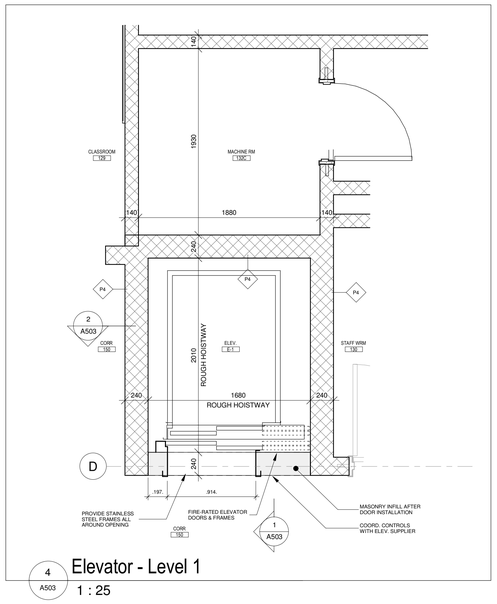
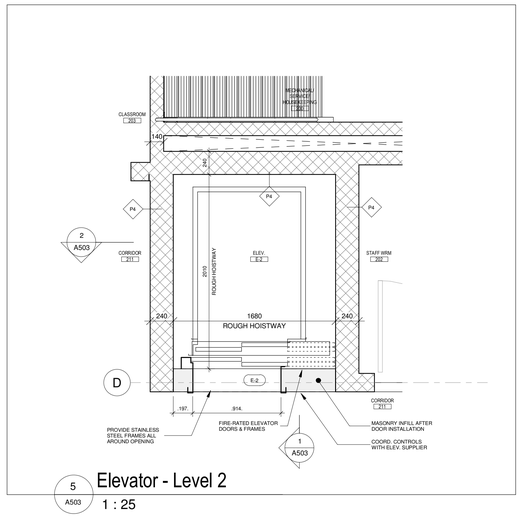


4 A503 Elevator - Level 1
1 : 25



5 A503 Elevator - Level 2
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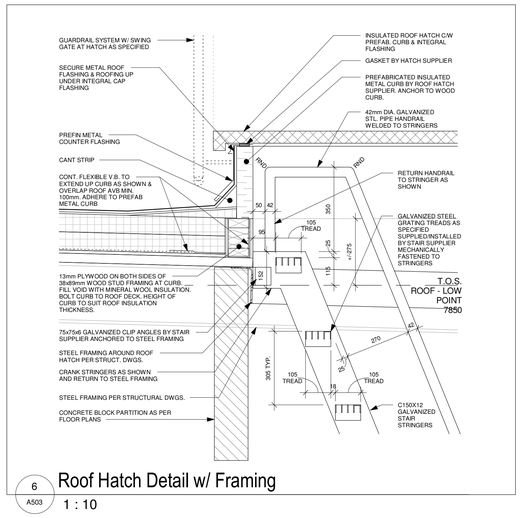
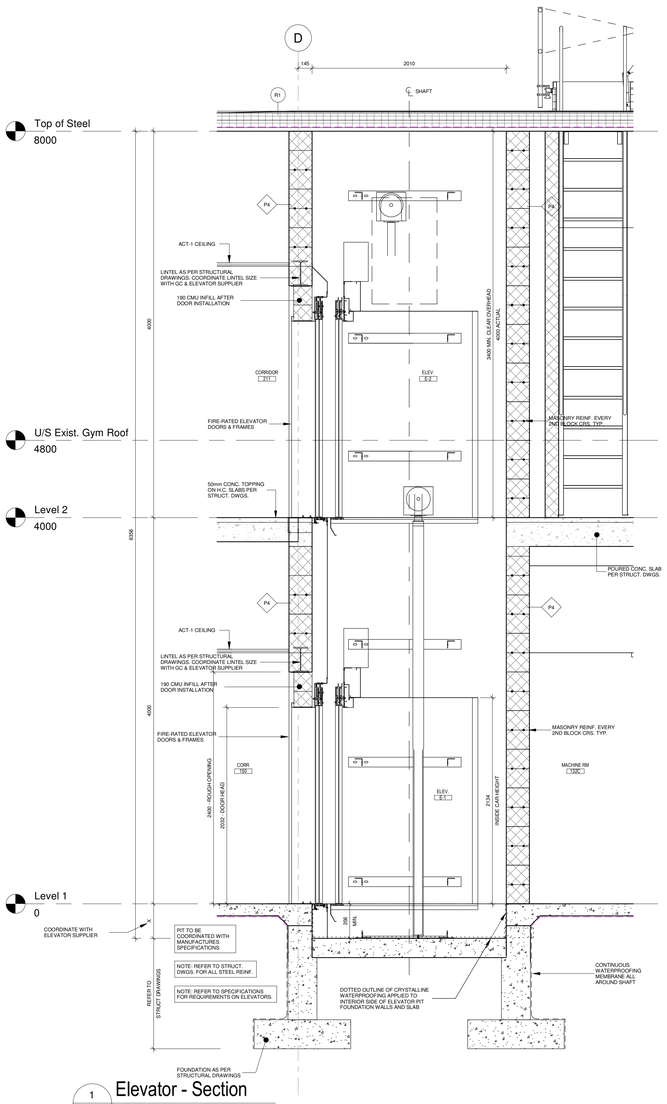


6 A503 Roof Hatch Detail w/ Framing
1 : 10



1 A503 Elevator - Section
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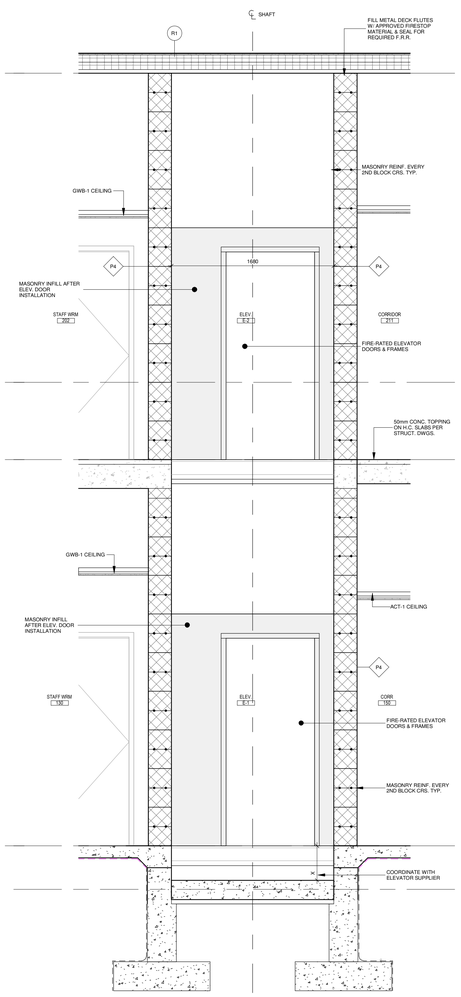

2 A503 Elevator - Section
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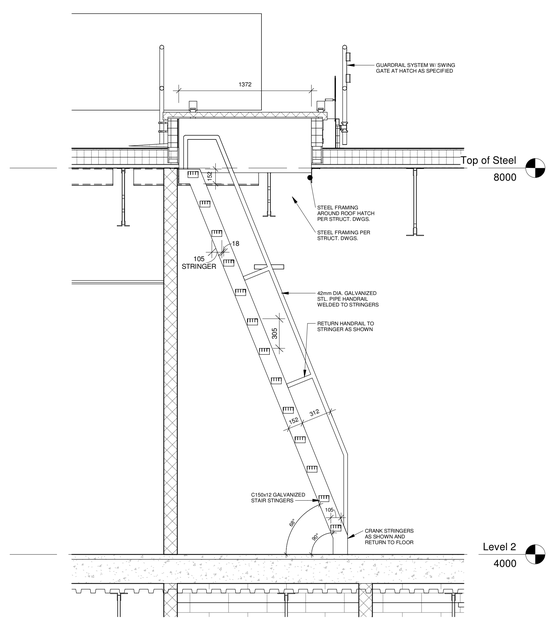

3 A503 Roof Ship Ladder - Section
1 : 25

No.	Revision	Date
4	Issued for Permit Resubmission & Tender	2026-04-20
3	Issued for Permit Resubmission	2026-01-26
2	Issued for Permit	2025-09-15
1	Issued for Costing	2025-09-08

Orientation

Seal

ONTARIO ASSOCIATION OF ARCHITECTS
RYAN STITT
LICENCE
7583

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Project Information

WCDSB St. Paul C.E.S. Addition & Renovation

45 Birchcliff Avenue, Kitchener, ON N2M 4V7

For

Waterloo Catholic District School Board

Drawing Title

Elevator, Ships Ladder & Details

Date	2026-04-20	Project No	Drawing No
Drawn by	FP	25012	A503
Scale	As indicated		

Autodesk Docs://25012 - St Paul CES/25012 - WCDSB St Paul Addition Cloud_R24.rvt
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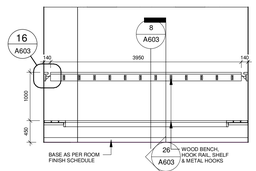
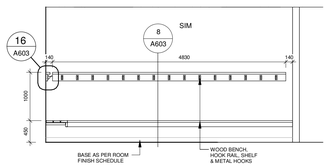


1 A601 Changeroom - North
1 : 50



2 A601 Changeroom - East
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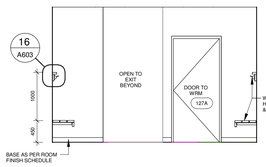

3 A601 Changeroom - South
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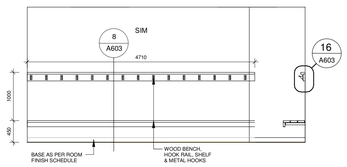
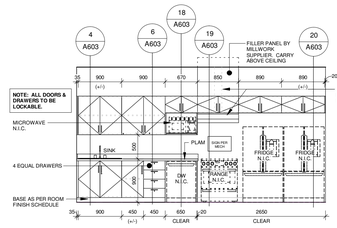


4 A601 Changeroom - West
1 : 50



5 A601 Servery - East
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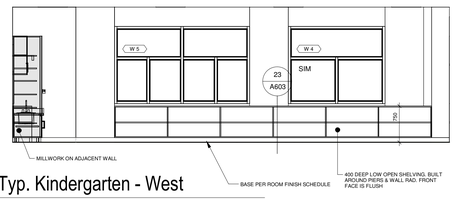
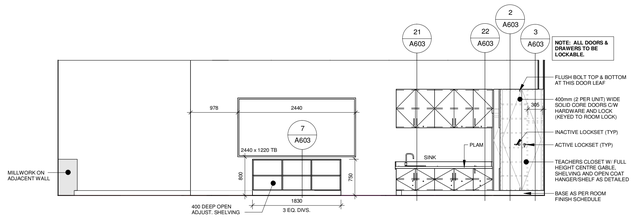


6 A601 Typ. Kindergarten - West
1 : 50



7 A601 Kindergarten 134 - South
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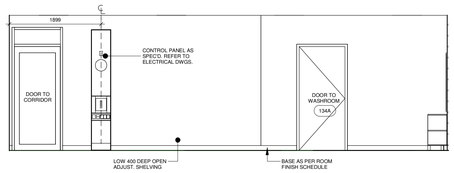

8 A601 Kindergarten 134 - East
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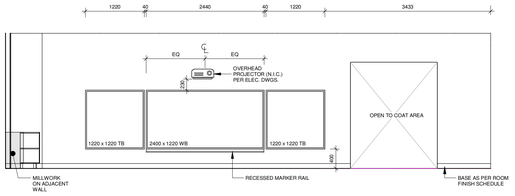

9 A601 Kindergarten 134 - North
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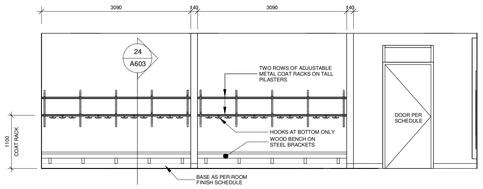

10 A601 Kindergarten 133 - East
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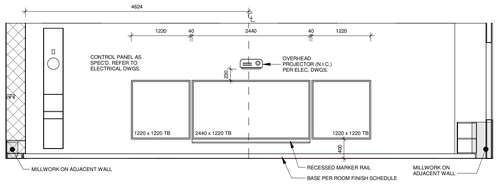

11 A601 Kindergarten 133 - South
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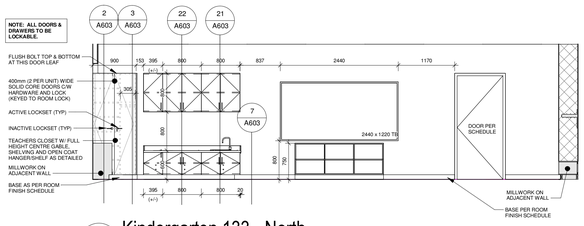

12 A601 Kindergarten 133 - North
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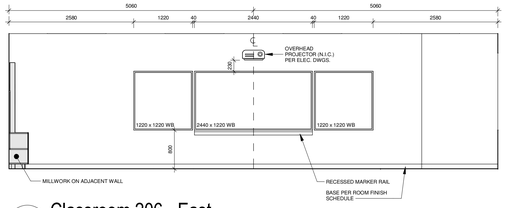

13 A601 Classroom 206 - East
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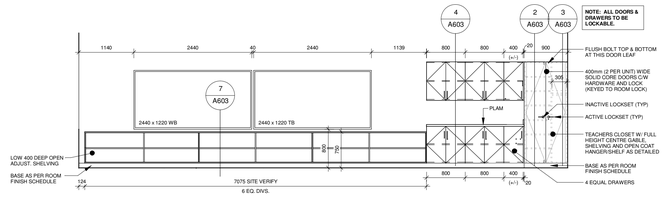
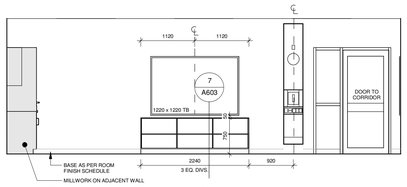


14 A601 Classroom 206 - West
1 : 50



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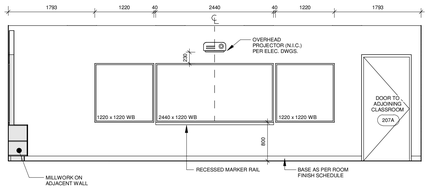

16 A601 Classroom 207- East
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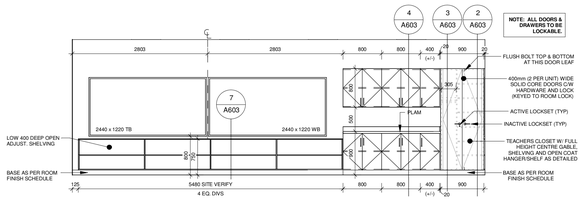

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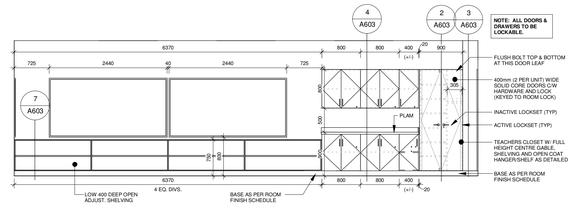
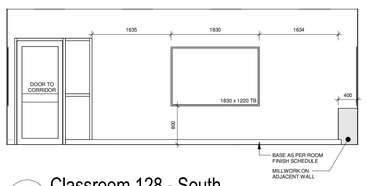
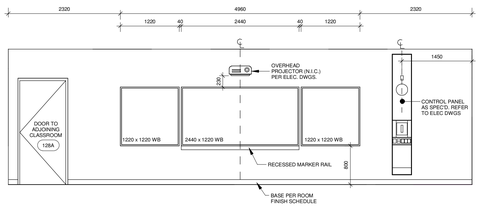


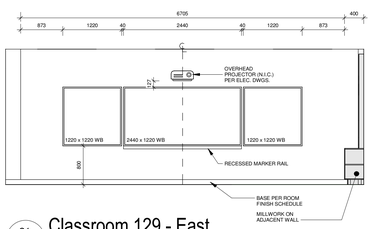
18 A601 Classroom 128 - West
1 : 50



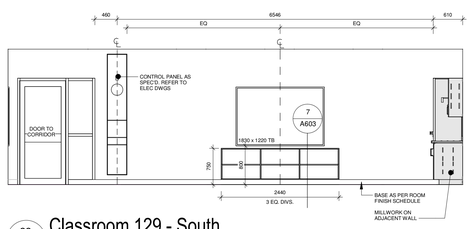
19 A601 Classroom 128 - South
1 : 50



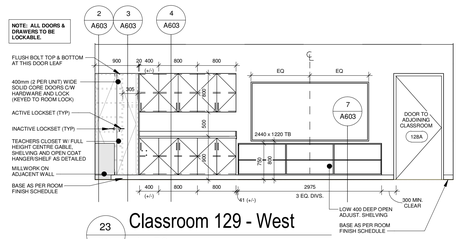
20 A601 Classroom 128 - East
1 : 50



21 A601 Classroom 129 - East
1 : 50



22 A601 Classroom 129 - South
1 : 50



23 A601 Classroom 129 - West
1 : 50

No.	Revision	Date
4	Issued for Permit Resubmission & Tender	2026-04-20
3	Issued for Permit Resubmission	2026-01-26
2	Issued for Permit	2025-09-15
1	Issued for Costing	2025-09-08

Orientation

Seal

ONTARIO ASSOCIATION OF ARCHITECTS
RYAN STITT
LICENCE
7583

All dimensions to be checked and verified on the job by the Contractor. Any discrepancies are to be reported to the Consultant prior to action. Only the latest approved drawings to be used for construction in conformance with all applicable codes, by-laws and regulations. All drawings remain the property of the Consultant.

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Project Information

WCDSB St. Paul C.E.S. Addition & Renovation

45 Birchcliff Avenue, Kitchener, ON N2M 4V7

For

Waterloo Catholic District School Board

Drawing Title

Interior Elevations

Date	2026-04-20	Project No	Drawing No
Drawn by	FP,SS	25012	A601
Scale	1 : 50		

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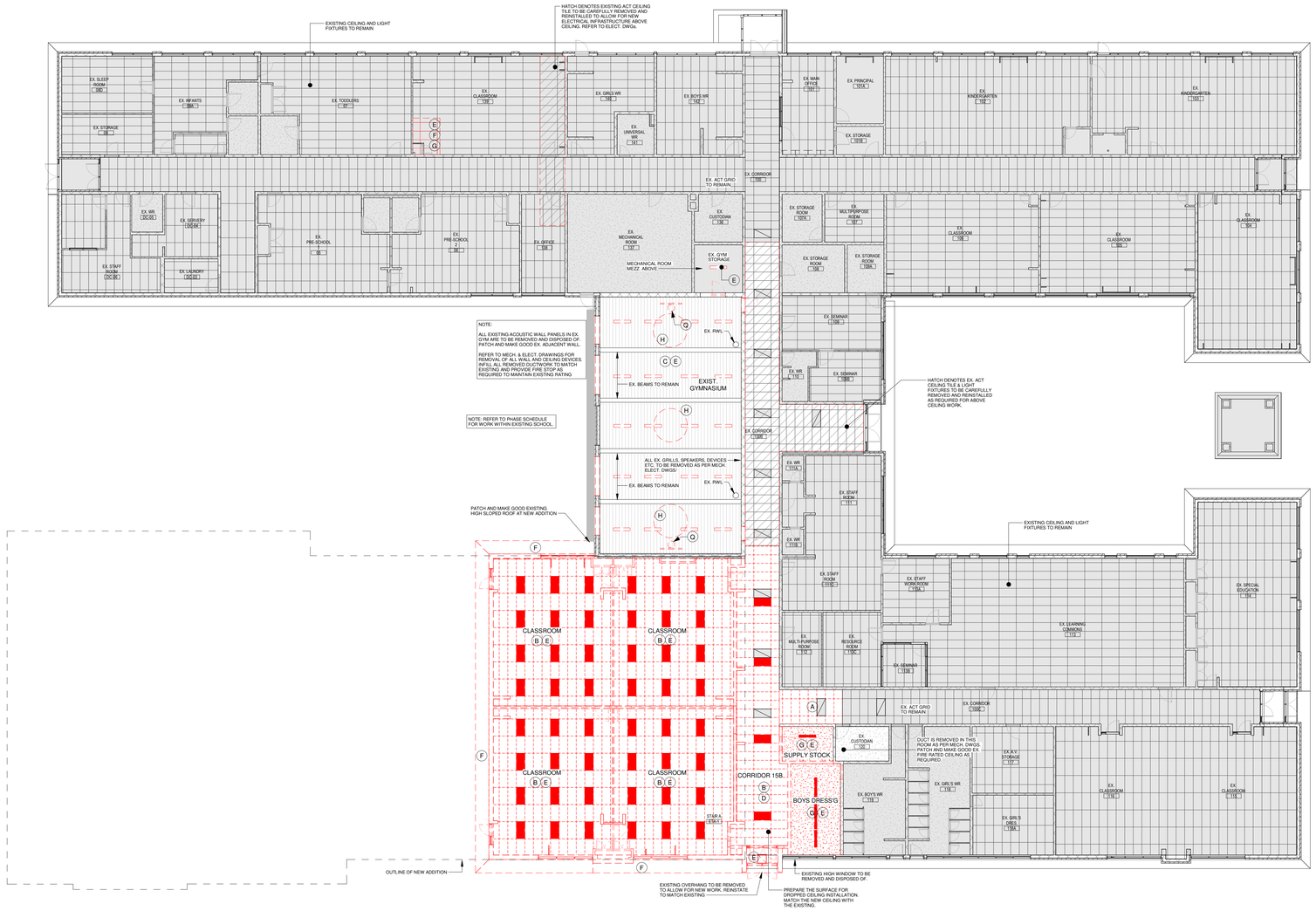

1 A701 Level 1 Reflected Ceiling Plan - Demo

1 : 150

EXISTING/DEMOLITION NOTES RCP

- (A) EXISTING PORTION OF THE CEILING TO BE REMOVED AND REINSTALLED TO ALLOW FOR NEW WORK. REFER TO MECHANICAL AN ELECTRICAL DRAWINGS FOR REMOVAL OF ALL DEVICES & FIXTURES.
- (B) EXISTING ACT CEILING & GRIDS TO BE REMOVED IN THEIR ENTIRETY AND DISPOSED OF. REFER TO MECHANICAL AN ELECTRICAL DRAWINGS FOR REMOVAL OF ALL DEVICES & FIXTURES.
- (C) EXISTING WOOD FINISH CEILING AND GWB WRAPPED BEAMS TO REMAIN AND BE PROTECTED AT ALL TIMES. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR REMOVAL OF ALL DEVICES & FIXTURES.
- (D) EXISTING LIGHT FIXTURES TO BE CAREFULLY REMOVED AND REINSTALLED TO ALLOW FOR NEW WORK
- (E) EXISTING LIGHT FIXTURES TO BE REMOVED AND DISPOSED OF. REFER TO ELECTRICAL DRAWINGS.
- (F) EXISTING SOFFIT AND SLOPED ROOF TO BE REMOVED AND DISPOSED OF.
- (G) EXISTING GYPSUM CEILING TO BE REMOVED IN ITS ENTIERTY. REFER TO DESIGNATED SUBSTANCES REPORT. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR REMOVAL OF ALL DEVICES & FIXTURES.
- (H) EXISTING FANS TO BE REMOVED IN THEIR ENTIERTY AND DISPOSED OF.

EXISTING CEILING MOUNTED LIGHTS TO BE REMOVED

EXISTING HANGING LIGHTS TO BE REMOVED

No.	Revision	Date
4	Issued for Permit Resubmission & Tender	2026-04-20
3	Issued for Permit Resubmission	2026-01-26
2	Issued for Permit	2025-09-15
1	Issued for Costing	2025-09-08

Orientation

Seal

ONTARIO ASSOCIATION OF ARCHITECTS
RYAN STITT
LICENCE
7583

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Project Information

WCDSB St. Paul C.E.S. Addition & Renovation

45 Birchcliff Avenue, Kitchener, ON N2M 4V7

For
Waterloo Catholic District School Board

Drawing Title

RCP Level 1 Demo

Date	2026-04-20	Project No	Drawing No
Drawn by	Author	25012	A701
Scale	As indicated		

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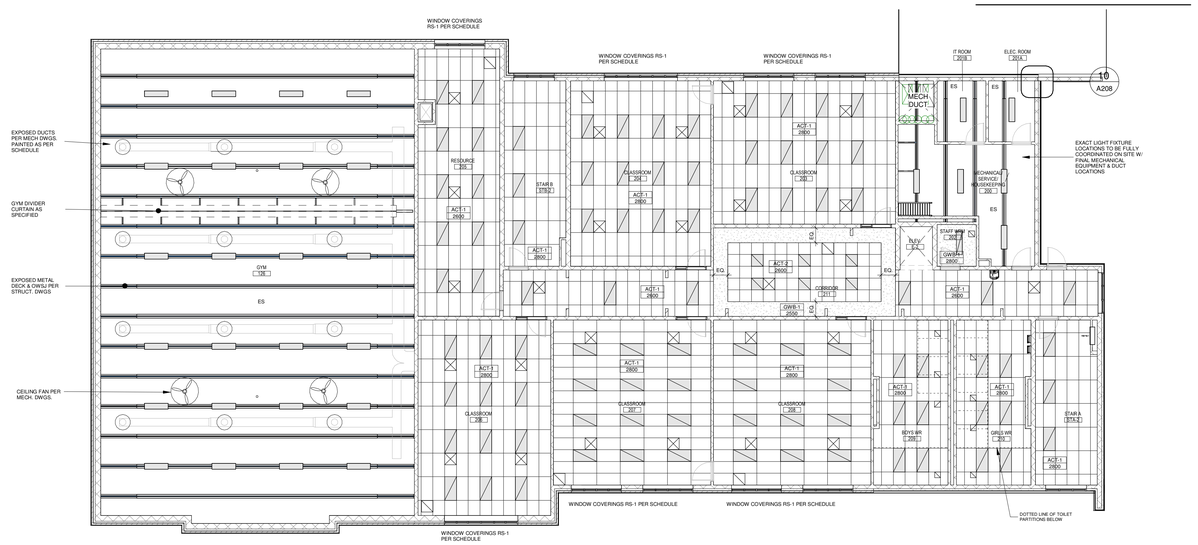

2 A702 Level 2 Reflected Ceiling Plan
1 : 125

1 A702 Level 1 Reflected Ceiling Plan
1 : 125

REFLECTED CEILING PLAN NOTES:

1. CO-ORDINATE FULLY WITH MECHANICAL & ELECTRICAL DRAWINGS & SPECIFICATIONS TO ENSURE PROPER PLACEMENT OF ALL LIGHTS, GRILLES, EXHAUST FANS, DIFFUSERS ETC. RELATING TO THE REFLECTED CEILING PLAN LAYOUT.
2. ENCLOSE ALL EXPOSED STEEL STRUCTURE SUPPORTING FLOOR LOADS WITH (2)-LAYERS OF 16mm FIRE-RATED GYPSUM WALL BOARD ON METAL FRAMING ASSEMBLY TO PROVIDE A (1)-HOUR FIRE RESISTANCE RATING. ALL DETAILS MUST COMPLY.
3. REFER TO ELECTRICAL DRAWINGS FOR LOCATIONS OF FIXTURES FLUSH WITH GYPSUM WALL BOARD CEILING AND REQUIRE CAREFUL FINISHING.

REFLECTED CEILING PLAN LEGEND:

- SUPPLY AIR DIFFUSER AS PER MECH. DWGs
- RETURN AIR DIFFUSER AS PER MECH. DWGs
- EXHAUST GRILLE AS PER MECH. DWGs
- SURFACE MOUNTED LUMINAIRE AS PER ELEC. DWGs
- RECESSED LUMINAIRE AS PER ELEC. DWGs
- RECESSED LIGHT FIXTURE AS PER ELEC. DWGs
- WALL MOUNTED LIGHT FIXTURE AS PER ELEC. DWGs
- 610 x 1220 LAY-IN CEILING (REFER TO COLOUR & MATERIAL SCHEDULE FOR TYPES)

GYPSUM WALL BOARD ON METAL FRAMING

GWB-1 16mm GWB ON 22mm FURRING ON METAL FRAMING

GWB-2 1HR FIRE RATED CEILING 2-LAYERS 16mm GWB TYPE 'X' ON 22mm FURRING ON METAL FRAMING

No.	Revision	Date
4	Issued for Permit Resubmission & Tender	2026-04-20
3	Issued for Permit Resubmission	2026-01-26
2	Issued for Permit	2025-09-15
1	Issued for Costing	2025-09-08

Orientation

Seal: ONTARIO ASSOCIATION OF ARCHITECTS — RYAN STITT — LICENCE 7583

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Project Information

WCDSB St. Paul C.E.S. Addition & Renovation

45 Birchcliff Avenue, Kitchener, ON N2M 4V7

For
Waterloo Catholic District School Board

Drawing Title

RCP Level 1 & 2 Addition

Date	2026-04-20	Project No	Drawing No
Drawn by	Author	25012	A702
Scale	As indicated		

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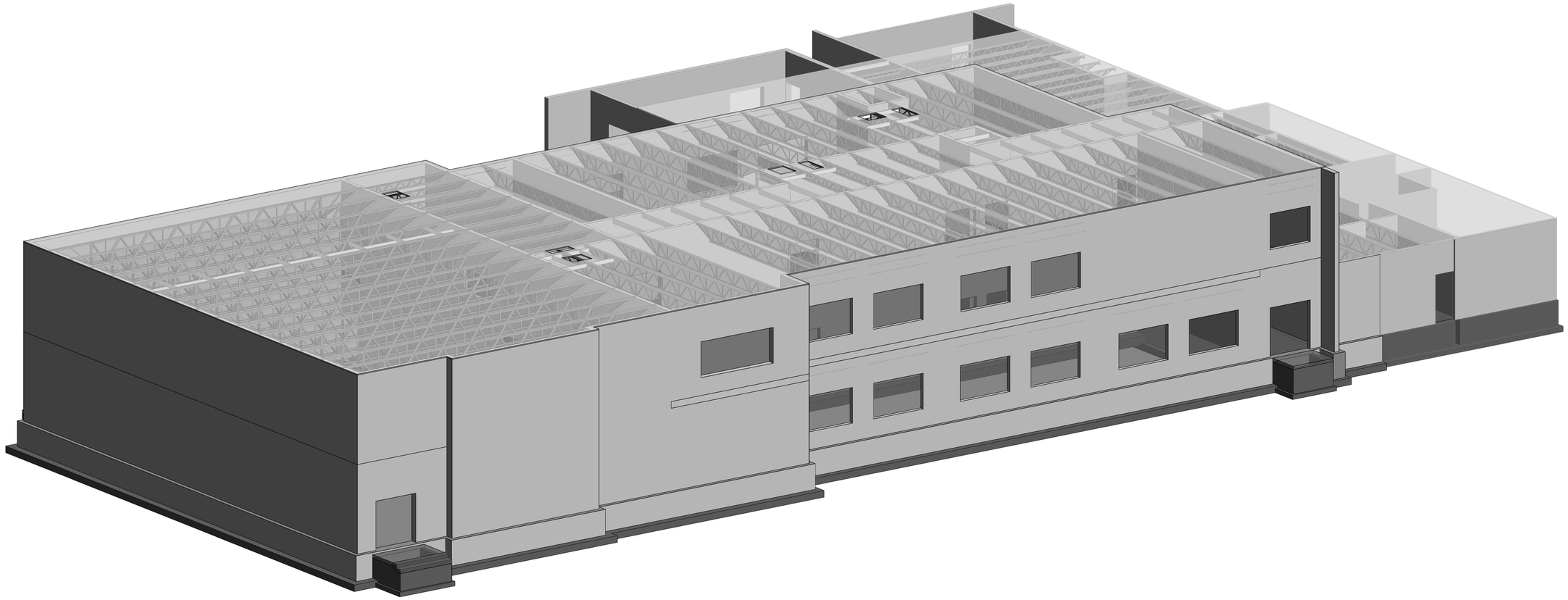

SCHEMATIC 3D VIEW

No.	Revision	Date
3	ISSUED FOR TENDER	2026-04-22
2	ISSUED FOR BUILDING PERMIT	2026-01-29
1	ISSUED FOR COSTING	2025-09-09

Professional Seal(s)

STRUCTURAL DRAWING LIST

DWG No	DWG NAME
S001	COVER SHEET
S101	GENERAL NOTES
S102	TYPICAL DETAILS
S103	TYPICAL DETAILS
S104	TYPICAL DETAILS
S105	TYPICAL DETAILS
S106	TYPICAL DETAILS
S110	LOADING PLANS
S151	LEVEL 1 DEMOLITION PLAN
S152	ROOF DEMOLITION PLAN
S201	FOUNDATION & GROUND FLOOR PLAN
S202	SECOND FLOOR FRAMING PLAN
S203	ROOF FRAMING PLANS
S301	GYMNASIUM WALL ELEVATIONS
S401	FOUNDATION SECTIONS
S402	SECOND FLOOR SECTIONS
S403	ROOF SECTIONS

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Project Title

St Paul Addition & Reno

45 Birchcliff Ave, Kitchener, ON N2M 4V7

For

WCDSB

Dwg. Title

COVER SHEET

Date	Drawn By:	Dwg. No.
2026-04-22	TM	**S001**
Project No. ALL-25004504-A0	Checked By: AY/SZ	
Scale	Rev. No. 3	

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GENERAL NOTES — GN-001CS

1 **GENERAL**

1.1 CHECK DIMENSIONS ON STRUCTURAL DRAWINGS AGAINST ARCHITECTURAL DRAWINGS AND EXISTING SITE CONDITIONS. REPORT INCONSISTENCIES TO CONSULTANT BEFORE PROCEEDING WITH THE WORK.
1.2 READ DRAWINGS IN CONJUNCTION WITH SPECIFICATIONS.
1.3 DO NOT EXCEED DURING CONSTRUCTION DESIGN LOADS SHOWN ON PLANS REDUCED AS NECESSARY UNTIL MATERIALS REACH DESIGN STRENGTH.
1.4 DO NOT SCALE DRAWINGS.
1.5 DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.ELEVATIONS ARE IN METRES UNLESS NOTED OTHERWISE.

2 **DESIGN**

2.1 DESIGN IS IN ACCORDANCE WITH THE ONTARIO BUILDING CODE 2024 EDITION LATEST AMENDMENTS.
2.2 DESIGN STANDARDS
2.2.1 CONCRETE MEMBERS ARE DESIGNED IN ACCORDANCE WITH CSA STANDARD A23.3-04.
2.2.2 STRUCTURAL STEEL IS DESIGNED IN ACCORDANCE WITH CSA STANDARD S16-09.
2.2.3 MASONRY IS DESIGNED IN ACCORDANCE WITH CSA STANDARD S304. 1-04.

3 **MATERIALS**

3.1 CONCRETE: SEE SCHEDULE OF CONCRETE PROPERTIES AND SPECIFICATION.
3.2 STRUCTURAL STEEL: UNLESS NOTED OTHERWISE TO CSA G40.20/G40.21-13 OR ASTM STANDARD A992/A992M-11
W AND S SHAPES: GRADE 350W
PLATES: GRADE 350W
CHANNELS AND ANGLES: GRADE 300W
HOLLOW STRUCTURAL SECTIONS: GRADE 350W CLASS C OR ASTM STANDARD A1085
ANCHOR RODS: GRADE 300W
3.3 REINFORCING STEEL: TO CONFORM TO CSA G30.18-09 GRADE 400W UNLESS NOTED OTHERWISE
3.3.1 REINFORCING BAR AREAS ARE 100, 200, 300, 500, 700, 1000, 1500 AND 2500 SQ. MM FOR BAR DESIGNATIONS 10M, 15M, 20M, 25M, 30M, 35M, 45M AND 55M RESPECTIVELY.
3.3.2 STRENGTH:
DEFORMED REINFORCING BARS: 400 MPa.
WELDED WIRE FABRIC: 440 MPa

3.4 MASONRY
3.4.1 CONCRETE BLOCKS, NORMAL WEIGHT LOAD BEARING UNITS:
STANDARD HOLLOW: TYPE H/15/A/M
75% SOLID: TYPE S/15/A/M
100% SOLID: TYPE Sc/15/A/M
3.4.2 MORTAR: CONFORMING TO CSA A179, TYPE S, MINIMUM STRENGTH AT 28 DAYS: 8.5 MPA.
3.4.3 HORIZONTAL JOINT REINFORCEMENT: CONFORMING TO CSA A370
3.4.4 GROUT: CONFORMING TO CSA A179, MINIMUM STRENGTH AT 28 DAYS: 20 MPa, 200 mm SLUMP

DESIGN LOAD — GN-002CS

1. UNIT FLOOR AND ROOF LOADINGS, SOIL BEARING PRESSURES AND FOUNDATION LOADS GIVEN ON PLANS ARE UNFACTORED. MEMBER FORCES GIVEN ON DRAWINGS ARE FACTORED.

2. GRAVITY LOADS: SUPERIMPOSED DEAD LOADS AND LIVE LOADS ARE GIVEN ON PLANS.

3. SNOW LOAD PARAMETERS, OBC 2024 - KITCHENER, ONTARIO
Ss = 2.0 kPa
Sr = 0.4 kPa
Is ULS = 1.15
Is SLS = 0.9
BASIC SNOW LOAD = 2.3 kPa

4. RAIN LOAD PARAMETER, OBC 2024 - KITCHENER, ONTARIO
ONE DAY RAINFALL = 119 mm

5. WIND LOAD PARAMETERS, OBC 2024 - KITCHENER, ONTARIO
q (1/10) = 0.29 kPa
q (1/50) = 0.37 kPa
Iw ULS = 1.15
Iw SLS = 0.75
WIND LOAD APPLIED AS PER OBC AND NBCC COMMENTARY FIGURE 4.1.7.6.A

6. SEISMIC LOAD PARAMETERS, OBC 2024 - KITCHENER, ONTARIO
Sa (0.2) = 0.257
Sa (0.5) = 0.249
Sa (1.0) = 0.149
Sa (2.0) = 0.071
PGA = 0.151
SITE CLASSIFICATION = D
Ie = 1.3

S(0.2)=0.257
S(0.5)=0.249
S(1.0)=0.149
S(2.0)=0.071
Ie.S(0.2)=0.3341

Rd= 1.5
Ro = 1.5
SITE CLASSIFICATIO = D
SEISMIC FORCE RESISITING SYSTEM = CONVENTIONAL MASONRY SHEAR WALL

STRUCTURAL STEEL NOTES — GN-006

THE FOLLOWING NOTES ARE IN ADDITION TO THE GENERAL NOTES, THE SPECIFICATION, AND PLAN NOTES.

1. DESIGNATIONS FOR STRUCTURAL STEEL SHAPES ARE METRIC.
2. PROVIDE MINIMUM BEARING FOR ALL STEEL BEAMS
   a. 200 mm (8") ON CONCRETE AND MASONRY
   b. 100 mm (4") ON STEEL.
3. AXIAL LOADED MEMBERS THAT MEET AT A JOINT MUST HAVE THEIR CENTROIDAL AXES INTERSECT AT A COMMON POINT UNLESS SHOWN OTHERWISE.
4. DESIGN AND DETAIL ALL CONNECTIONS AS FLEXIBLE EXCEPT WHERE NOTED OTHERWISE ON THE DRAWINGS. CONNECTIONS MAY BE WELDED OR BOLTED.
5. WHERE MOMENT CONNECTIONS ARE CALLED FOR BUT DESIGN FORCES ARE NOT INDICATED, DESIGN MOMENT CONNECTION FOR FULL MOMENT CAPACITY OF THE WEAKER MEMBER JOINED.
6. FOR BOLTED CONNECTIONS USE SNUG TIGHT HIGH STRENGTH BOLTS, ASTM F3125/3125M (A325 OR A490) EXCEPT USE PRETENSIONED HIGH STRENGTH BOLTS IN LOCATIONS SPECIFIED IN CSA-S16 CLAUSE 22.2.2
   a. SLIP-CRITICAL CONNECTIONS WHERE SLIPPAGE CANNOT BE TOLERATED;
   b. SHEAR CONNECTIONS PROPORTIONED IN ACCORDANCE WITH SEISMIC REQUIREMENTS;
   c. ALL ELEMENTS RESISTING CRANE LOADS;
   d. CONNECTIONS SUBJECT TO IMPACT OR CYCLIC LOADING;
   e. CONNECTIONS WHERE THE BOLTS ARE SUBJECT TO TENSILE LOADING;
   f. CONNECTIONS USING OVERSIZE OR LONG SLOTTED HOLES (UNLESS SPECIFICALLY DESIGNED TO ACCOMMODATE MOVEMENT).
7. PROVIDE CONNECTIONS FOR MEMBERS THAT ARE PART OF THE LATERAL LOAD RESISTING SYSTEM ADEQUATE TO RESIST FORCES SHOWN ON DRAWINGS. WHERE SEISMIC DESIGN GOVERNS, THE FORCES HAVE BEEN ADJUSTED TO MEET THE REQUIREMENTS OF CLAUSE 27.
8. PROVIDE WELDED STIFFENER PLATES ON BOTH SIDES OF WEB OF BEAMS AT POINTS OF CONCENTRATED LOADS INCLUDING BEAMS SUPPORTING COLUMNS OR BEAMS SUPPORTED ON TOP OF COLUMNS.
9. PROVIDE DECK SUPPORT ANGLES, L76X76X7.9 (L3X3X5/16), AT CONNECTIONS, COLUMNS AND AT OTHER IRREGULARITIES.
10. ALL EXPOSED WELDS MUST BE CONTINUOUS AND GROUND SMOOTH. STRUCTURAL STEEL DESIGNATED ARCHITECTURALLY EXPOSED STRUCTURAL STEEL (AESS) ON THE DRAWINGS MUST COMPLY WITH CISC AESS CATEGORY SSS C 1 2 3 4 (*Select Category)*.
11. DO NOT CUT OR CORE OPENINGS IN STRUCTURAL STEEL WITHOUT PRIOR WRITTEN APPROVAL FROM THE ENGINEER.

CONCRETE & REINFORCING STEEL & FORMWORK — GN-003CS

1 **GENERAL**

1.1 THE FOLLOWING REFERENCE STANDARDS SHALL GOVERN THE WORK OF THIS SECTION:
1.1.1 CSA A23.1-09, CONCRETE MATERIALS AND METHODS OF CONCRETE CONSTRUCTION
1.1.2 CSA A23.2, METHODS OF TEST FOR CONCRETE
1.1.3 CSA A3000-08, CEMENTITIOUS MATERIALS COMPENDIUM
1.1.4 CSA G30.5 M1983 WELDED STEEL WIRE FABRIC FOR CONCRETE REINFORCEMENT
1.1.5 CSA G30.09, CARBON STEEL BARS FOR CONCRETE REINFORCEMENT
1.1.6 CSA W186-M1990(R2007), WELDING OF REINFORCING BARS IN REINFORCED CONCRETE CONSTRUCTION
1.1.7 ASTM D 3963/D3963M-01(2007), SPECIFICATION FOR EPOXY-COATED REINFORCING STEEL
1.1.8 ACI 315-99, MANUAL OF ENGINEERING AND PLACING DRAWINGS FOR REINFORCED CONCRETE STRUCTURES
1.1.9 RSIC REINFORCING STEEL MANUAL OF STANDARD PRACTICE, 2006.
1.1.10 ACI 117-06, STANDARD SPECIFICATIONS FOR TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS AND COMMENTARY
1.1.11 CSA 269.1-1975(R2003), FALSEWORK FOR CONSTRUCTION PURPOSES
1.1.12 CSA S269.3-M92(R2008), CONCRETE FORMWORK

1.2 SUBMITTALS
1.2.1 SUBMIT CONCRETE MIX DESIGNS
1.2.2 SUBMIT REINFORCING STEEL SHOP DRAWINGS
.1 PREPARE PLACING DRAWINGS AND BAR LISTS INDICATING REINFORCING, DOWELS, CONCRETE COVER, CONSTRUCTION JOINTS

2 **PRODUCTS**

2.1 PLYWOOD: DOUGLAS FIR, MINIMUM THICKNESS17 mm TO CSA O121, FINISHED ONE SIDE, FABRICATED SPECIALLY FOR USE AS CONCRETE FORM PANELS WITH SEALED EDGES.
2.2 ROUND COLUMN FIBRE FORMS: TO PRODUCE SMOOTH SURFACE WITHOUT FINS
2.3 VOIDFORM: HONEYCOMB CELLULAR CORE STRUCTURE MANUFACTURED FROM KRAFT FIBRE.
2.4 REINFORCING BARS: TO CAN/CSA-G30.18, GRADE 400W
2.5 WELDED WIRE FABRIC: TO ASTM A1064/A1064M AND IN FLAT SHEETS NOT ROLLS
2.6 EPOXY COATED REINFORCEMENT: FROM MINISTRY OF TRANSPORTATION APPROVED SOURCES TO ASTM D3963/D3963M
2.7 CEMENTING MATERIALS
2.7.1 PORTLAND CEMENT: TO CSA A3000 TYPE GU OR GUL
2.7.2 CEMENTITIOUS HYDRAULIC SLAG AND FLY ASH: TO CSA A3000
2.8 AGGREGATE
2.8.1 FINE AGGREGATE FOR SLABS ON GRADE: FINENESS MODULUS BETWEEN 2.6 AND 3.1
2.8.2 COARSE AGGREGATE: 20 mm TO 5 mm UNLESS OTHERWISE SPECIFIED
2.9 CORROSION INHIBITOR: CALCIUM NITRITE MEETING THE REQUIREMENTS OF CSA S413, APPENDIX C
2.10 VAPOUR BARRIER FOR SLABS ON GRADE: POLYETHYLENE MEMBRANE, 0.15 mm THICK TO CGSB-51.34
2.11 CONTROL JOINT FILLER: SEMI-RIGID JOINT FILLER
: QWIKJOINT UVR, BY EUCLID CANADA INC., TORONTO, ON.
: LOADFLEX, BY SIKA CANADA INC., MISSISSAUGA, ON.
: PLANIBOND JF, BY MAPEI INC., BRAMPTON, ON.
2.12 PREMIXED GROUT: DRYPACK NON-SHRINK NON-METALLIC

3 **EXECUTION**

3.1 CONCRETE TO BE IN ACCORDANCE WITH THE FOLLOWING TABLE:
3.2 ALL REINFORCEMENT SHALL BE SECURELY HELD IN PROPER POSITION WHILE PLACING CONCRETE. PROVIDE CHAIRS, TIES, SPACERS, ADDITIONAL SUPPORT BARS AND STIRRUPS AS MAY BE REQUIRED.
3.3 PROVIDE OPENINGS IN SLABS AND WALLS AS SHOWN ON STRUCTURAL DRAWINGS OR OTHERWISE REQUIRED BY VARIOUS TRADES. OBTAIN CONSULTANT'S APPROVAL FOR LOCATIONS AND SIZES OF OPENINGS NOT SHOWN ON STRUCTURAL DRAWINGS. FORM ALL OPENINGS BEFORE CONCRETE IS PLACED; DO NOT CUT OR CORE ANY OPENINGS AFTER CONCRETING UNLESS APPROVED BY THE CONSULTANT.
3.4 PROVIDE SLEEVES IN SLABS AND WALLS FOR MECHANICAL PIPING WHEREVER POSSIBLE; AVOID CREATING OPENINGS NOT SHOWN ON STRUCTURAL DRAWINGS. OBTAIN CONSULTANT'S APPROVAL FOR ALL SLEEVES. SUBMIT SLEEVING DRAWINGS FOR APPROVAL A MINIMUM TWO WEEKS PRIOR TO PLACING CONCRETE.
3.5 ELECTRICAL CONDUIT IN SLABS, BEAMS, WALLS AND COLUMNS SHALL BE APPROVED BY THE CONSULTANT BEFORE PROCEEDING WITH THE WORK. REFER TO TYPICAL DETAILS FOR GUIDELINES.
3.6 CONSTRUCTION JOINTS FOR SLABS, BEAMS AND WALLS NOT SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE APPROVED BY THE CONSULTANT BEFORE CONSTRUCTION. REFER TO TYPICAL DETAILS.
3.7 COORDINATE AND INSTALL ALL REQUIRED EMBEDDED ITEMS, SLEEVES, INSERTS, FASTENING DEVICES ETC, BEFORE PLACING CONCRETE. INSTALL THESE ITEMS IN A MANNER THAT DOES NOT IMPAIR THE STRUCTURAL STRENGTH OF THE SYSTEM. DO NOT CUT OR BEND OR DISPLACE REINFORCEMENT OTHER THAN SHOWN ON THE STRUCTURAL DRAWINGS.
3.8 CONCRETE WALLS
3.8.1 REINFORCEMENT OF CONCRETE WALLS NOT SHOWN BY SECTION, PLAN OR SCHEDULE SHALL BE AS FOLLOWS:

EXTERIOR WALLS OUTSIDE THE BUILDING ENVELOPE AND BASEMENT WALLS

WALL THICKNESS	**HORIZONTAL**	**VERTICAL**	**LOCATION**
100 TO 150 (4" TO 6")	15M@300 (12")	10M@000 (12")	CENTRE
200 (8")	10M@225 (9")	10M@450 (18")	EACH FACE
250 (10")	15M@350 (14")	10M@450 (18")	EACH FACE
300 (12")	15M@325 (13")	10M@400 (16")	EACH FACE
>300 (12")	15M@300 (12")	15M@400 (16")	EACH FACE

ADD 2-15M HORIZONTAL TOP AND BOTTOM CONTINUOUS FOR 200 (8") WALLS
ADD 2-20M HORIZONTAL TOP AND BOTTOM CONTINUOUS FOR 250 (10") WALLS OR THICKER

INTERIOR WALLS

WALL THICKNESS	**HORIZONTAL**	**VERTICAL**	**LOCATION**
100 TO 150 (4" TO 6")	10M@300 (12")	10M@300 (12")	CENTRE
200 (8")	10M@450 (18")	10M@450 (18")	EACH FACE
250 (10")	10M@350 (14")	10M@450 (18")	EACH FACE
300 (12")	10M@330 (13")	10M@400 (16")	EACH FACE
>300 (12")	15M@300 (12")	15M@400 (16")	EACH FACE

ADD 2-15 HORIZONTAL TOP AND BOTTOM CONTINUOUS FOR 200 (8") WALLS OR THICKER

3.8.2 UNLESS SHOWN OTHERWISE BY SECTION, PLAN OR SCHEDULE, ADD 2-15M HORIZONTAL BARS ABOVE AND BELOW OPENINGS IN HEAD AND SILL. EXTEND BARS 600 mm (24") PAST OPENING. ADD "U" BARS SAME SIZE AND SPACING AS VERTICAL BARS.
3.8.3 UNLESS SHOWN OTHERWISE BY SECTION, PLAN OR SCHEDULE, ADD 2 -15M VERTICAL BARS IN JAMBS OF OPENING AND EDGE TIES SAME SIZE AND SPACING OF HORIZONTAL BARS.
3.8.4 WALL DOWELS INTO SLAB NOT SHOWN BY SECTION, PLAN OR SCHEDULE SHALL BE SAME SIZE AND SPACING AS VERTICAL BARS.
3.8.5 DO NOT LOCATE HORIZONTAL JOINTS BETWEEN FLOORS UNLESS SHOWN ON DRAWINGS.
3.8.6 LEAVE CHASES IN WALLS FOR SLABS, BEAMS AND CONCRETE STAIRS.
3.9 MINIMUM REINFORCING FOR ANY SUSPENDED SLAB SHALL BE TEMPERATURE BARS BOTTOM EACH WAY AS SHOWN IN TYPICAL DETAIL C-003 ONE-WAY-SLABS.
3.10 SLAB-ON-GRADE
3.10.1 SEE FOUNDATION PLAN NOTES FOR BEARING CONDITIONS.
3.10.2 WHERE FLOOR DEPRESSIONS OCCUR MAINTAIN SLAB THICKNESS SPECIFIED ON THE FOUNDATION PLANS. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS AND AREAS.
3.10.3 EACH POUR SHALL BE CONTAINED BY A VERTICAL BULKHEAD OR ABUTTING CONSTRUCTION JOINT. REFER TO TYPICAL DETAILS FOR CONSTRUCTION JOINTS AND CONTROL JOINTS.
3.10.4 DO NOT PLACE CONCRETE ON FROZEN SUBGRADE OR ON SUBGRADE CONTAINING FROZEN MATERIAL. ASCERTAIN THAT FORMS, REINFORCING STEEL AND ADJACENT CONCRETE SURFACES ARE ENTIRELY FREE OF FROST, SNOW AND ICE BEFORE PLACING CONCRETE.
3.10.5 BEFORE PLACING SLAB-ON-GRADE VERIFY THAT:
.1 SUBGRADE HAS BEEN COMPACTED TO THE REQUIREMENTS OF THE GEOTECHNICAL REPORT;
.2 TRENCHES, HOLES ETC. THAT WERE DUG AFTER THE PREPARATION OF THE SUBGRADE HAVE BEEN FILLED WITH NEW GRANULAR MATERIAL AND COMPACTED TO THE REQUIREMENTS OF THE GEOTECHNICAL REPORT;
.3 REINFORCING STEEL IS PROPERLY CHAIRED AND HELD SECURELY IN PLACE;
.4 ALL EQUIPMENT FOR THE FINISHING OF CONCRETE AND THE SAW CUTTING OF CONTROL JOINTS IS ON SITE AND WORKING PROPERLY;
.5 USE EARLY ENTRY SAW (SOFF-CUT, BY HUSQVARNA). COMMENCE SAWCUTTING AS SOON AS CONCRETE CAN SUPPORT WEIGHT OF SAW AND OPERATOR WITHOUT MARRING CONCRETE SURFACE AND WITHIN 2 HOURS OF COMPLETION OF FINAL FINISHING;
3.11 FLOOR FINISH: HARD, SMOOTH, DENSE TROWELED SURFACE FREE FROM BLEMISHES.

4 **FIELD QUALITY CONTROL**

4.1 INSPECTION AND TESTING COMPANY SHALL PERFORM:
4.1.1 SAMPLING, INSPECTION AND TESTING IN ACCORDANCE WITH CSA A23.2 AND TO INCLUDE:
.1 MAKING STANDARD SLUMP TESTS;
.2 OBTAINING OF THREE STANDARD SPECIMENS FOR STRENGTH TESTS FROM EACH 100 CUBIC METRES OF CONCRETE, OR FRACTION THEREOF, OF EACH MIX DESIGN OF CONCRETE PLACED IN ANY ONE DAY;
.3 MAKING COMPRESSION TESTS OF EACH SET OF THREE SPECIMENS, ONE AT 7 DAYS AND TWO AT 28 DAYS;
.4 VERIFICATION OF AIR CONTENT OF AIR-ENTRAINED CONCRETE;
.5 VERIFICATION THAT CONCRETE CONTAINS CORROSION INHIBITOR WHERE SPECIFIED.
.6 DETERMINE CHLORIDE ION CONTENT IN ACCORDANCE WITH CSA STANDARDA23.2 TEST METHOD 4B.
.7 INSPECTION OF TOLERANCES.

FOUNDATIONS NOTES — GN-005CS

THE FOLLOWING NOTES ARE IN ADDITION TO THE GENERAL NOTES, THE SPECIFICATION AND PLAN NOTES.

1. SEE FOUNDATION PLAN NOTES FOR ASSUMED BEARING CONDITIONS. IF ACTUAL SITE OR SOIL CONDITIONS VARY FROM THOSE ASSUMED, OBTAIN WRITTEN INSTRUCTIONS FROM THE CONSULTANT BEFORE PROCEEDING WITH THE WORK.
2. CARRY EXTERIOR FOOTINGS DOWN MINIMUM 1200 mm (4') BELOW FINISHED GRADE. PROTECT FOOTINGS EXPOSED TO FROST DURING CONSTRUCTION WITH 1200 mm (4') OF EARTH OR ITS EQUIVALENT TO PREVENT FREEZING OF SOIL UNDER FOOTINGS. DO NOT PLACE FOOTINGS ON FROZEN SOIL.
3. KEEP EXCAVATIONS CONTINUOUSLY DRY BEFORE CONCRETE IS PLACED. IF SOIL IS SOFTENED BY WATER, EXTEND EXCAVATION BELOW SOFTENED MATERIAL AND LOWER FOOTINGS TO SUIT.
4. DO NOT EXCEED A RISE OF 7 IN RUN OF 10 IN THE LINE OF SLOPE BETWEEN ADJACENT EXCAVATIONS. MAXIMUM STEP 600 mm (24") APPROXIMATELY.
5. FOUND NEW FOOTINGS WHICH ARE LOCATED IMMEDIATELY ADJACENT TO EXISTING FOOTINGS AT THE SAME ELEVATION AS THE EXISTING FOOTING UNLESS NOTED OTHERWISE. AT LOCATIONS WHERE MECHANICAL SERVICES INTERFERE WITH FOOTINGS ESTABLISH TOP OF FOOTING A MINIMUM 200 mm (8") BELOW INVERT ELEVATION. REFER TO MECHANICAL DRAWINGS FOR LOCATION OF SERVICES.
6. CAP DEPTHS GIVEN ARE FOR ASSUMED SUBSOIL CONDITIONS. RAISE OR LOWER FOOTING BASES AND ADJUST CAP DEPTHS IF ACTUAL CONDITIONS VARY, IN ACCORDANCE WITH THE FOLLOWING:
   a. MINIMUM CAP DEPTH IS 300 mm (12"), BUT NOT LESS THAN:
      .1 UNDER STEEL COLUMN: TWICE THE HORIZONTAL PROJECTION OF THE CAP BEYOND THE COLUMN BASE PLATE.
      .2 UNDER CONCRETE COLUMN, THE GREATER OF
         a) TWICE THE GREATER HORIZONTAL PROJECTION OF THE CAP BEYOND THE COLUMN;
         b) COMPRESSION DEVELOPMENT LENGTH OF COLUMN DOWEL PLUS 75 mm MINUS DEPTH OF FOOTING BASE.
7. WHERE FOUNDATION CONDITIONS REQUIRE LOWERING FOOTING BASES TO THE EXTENT THAT THE CAP DEPTH EXCEEDS 3 TIMES ITS LEAST DIMENSION, OBTAIN CAP REINFORCEMENT FROM THE CONSULTANT.
8. PLACE BASEMENT AND GROUND (FIRST) FLOOR SLABS AND WAIT UNTIL CONCRETE HAS REACHED 100% OF DESIGN STRENGTH BEFORE BACKFILLING AGAINST WALLS. PROVIDE SUPPORT AT TOP AND BOTTOM OF WALLS WHERE SLABS CANNOT BE POURED UNTIL BACKFILL HAS BEEN PLACED. WHERE BACKFILL IS PLACED ON EACH SIDE OF FOUNDATION WALLS, DO NOT EXCEED A GRADE DIFFERENCE OF 600 mm (24").

EXCAVATION AND BACKFILL — GN-004CS

1 **GENERAL**

1.1 THE FOLLOWING REFERENCE STANDARDS SHALL GOVERN THE WORK OF THIS SECTION:
1.1.1 OPSS 1010, MATERIAL SPECIFICATION FOR AGGREGATES – BASE, SUBBASE, SELECT SUBGRADE AND BACKFILL MATERIALS

2 **PRODUCTS:**

2.1 MATERIAL
BACKFILL MATERIAL SHALL BE IN ACCORDANCE WITH GEOTECHNICAL REPORT.

3 **EXECUTION**

3.1 EXCAVATE TO FOOTING ELEVATIONS INDICATED ON DRAWINGS AND OBTAIN VERIFICATION FROM INSPECTION AND TESTING COMPANY THAT BEARING MATERIAL IS AS ANTICIPATED. REMOVE UNSUITABLE MATERIAL AS INSTRUCTED.
3.2 BACKFILL - MATERIAL AND PREPARATION SHALL BE IN ACCORDANCE WITH GEOTECHNICAL REPORT
3.3 GRANULAR UNDERBED FOR SLAB-ON-GRADE - MATERIAL AND PREPARATION SHALL BE IN ACCORDANCE WITH GEOTECHNICAL REPORT

4 **FIELD QUALITY CONTROL**

4.1 INSPECTION AND TESTING COMPANY SHALL PERFORM:
4.1.1 VERIFICATION OF FOUNDATION BEARING MATERIAL;
4.1.2 TESTING OF GRANULAR MATERIALS TO CONFIRM THEY MEET GRADING AND COMPACTION REQUIREMENTS.

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NON-STRUCTURAL ELEMENTS — GN-011CS

1. "NON-STRUCTURAL" OR "SECONDARY STRUCTURAL" ELEMENTS ARE NOT PART OF THE STRUCTURAL DESIGN SHOWN ON THESE DRAWINGS. SUCH ELEMENTS ARE DESIGNED, DETAILED AND REVIEWED IN THE FIELD BY OTHERS. THEY APPEAR ON DRAWINGS OTHER THAN THESE STRUCTURAL DRAWINGS BY exp. WHERE STRUCTURAL ENGINEERING RESPONSIBILITY IS REQUIRED FOR THESE ELEMENTS, THIS SHALL BE PROVIDED BY SPECIALTY STRUCTURAL ENGINEERS, WHO SHALL ALSO PROVIDE ANY DOCUMENTATION REQUIRED BY BUILDING PERMIT AUTHORITIES.

2. EXAMPLES OF NON-STRUCTURAL ELEMENTS INCLUDE, BUT ARE NOT LIMITED TO:
   a. ARCHITECTURAL COMPONENTS SUCH AS GUARDRAILS, HANDRAILS, MISCELLANEOUS STEEL STAIRS, FLAG POLES, CANOPIES, CEILINGS, MILLWORK, ETC.
   b. LANDSCAPE ELEMENTS SUCH AS BENCHES, LIGHT POSTS, PLANTERS, ETC.
   c. CLADDING, GLAZING, WINDOW MULLIONS, INTERIOR STUD WALLS AND EXTERIOR STUD WALLS.
   d. ARCHITECTURAL PRECAST, PRECAST CLADDING.
   e. SKYLIGHTS.
   f. MECHANICAL AND ELECTRICAL EQUIPMENT, COMPONENTS, AND THEIR ATTACHMENT DETAILS. CONNECTIONS DESIGNED SEISMIC RESTRAINT ACCORDING TO OBC 2012 CLAUSE 4.1.8.18 OR NBC 2015 CLAUSE 4.1.8.18.
   g. WINDOW WASHING EQUIPMENT, FALL ARREST ANCHORS AND THEIR ATTACHMENTS.
   h. ESCALATORS, ELEVATORS, AND CONVEYING SYSTEMS.
   i. GLASS BLOCK AND ITS ATTACHMENTS.
   j. BRICK OR BLOCK VENEERS AND THEIR ATTACHMENTS.
   k. NON-LOAD BEARING MASONRY.
   l. NON-STRUCTURAL CONCRETE TOPPINGS.

3. SUBMIT SHOP DRAWINGS FOR NON-STRUCTURAL ELEMENTS WHICH MAY AFFECT THE PRIMARY STRUCTURAL SYSTEM TO exp. THESE DRAWINGS WILL BE REVIEWED ONLY FOR THE LOAD EFFECT OF THE ELEMENT ON THE PRIMARY STRUCTURAL SYSTEM.

CONCRETE ANCHORS, INSERTS, BOLTS — GN-012CS

1 **GENERAL**

1.1 THE FOLLOWING REFERENCE STANDARDS SHALL GOVERN THE WORK OF THIS SECTION:
1.1.1 CSA A23.3-04, DESIGN OF CONCRETE STRUCTURES
1.1.2 CSA S304.1, DESIGN OF MASONRY STRUCTURERS.
1.1.3 CSA A371, MASONRY CONSTRUCTION FOR BUILDINGS.

2 **PRODUCTS**

2.1 TORQUE CONTROLLED EXPANSION ANCHORS
2.1.1 EXPANSION ANCHOR: PROVIDE EXPANSION ANCHORS OF SIZE SHOWN ON DRAWINGS, INCLUDING MATCHING NUTS AND WASHERS:
.1 FOR DRY LOCATIONS:
: KWIK BOLT TZ CARBON STEEL ZINC PLATED, BY HILTI (CANADA) CORPORATION, MISSISSAUGA, ONTARIO
.2 FOR WET OR HIGH HUMIDITY LOCATIONS OR LOCATIONS EXTERIOR TO THE CONDITIONED BUILDING ENVELOPE:
: KWIK BOLT TZ TYPE 304 STAINLESS STEEL, BY HILTI (CANADA) CORPORATION, MISSISSAUGA, ONTARIO
.3 FOR LOCATIONS EXPOSED TO CHLORIDES OR OTHER CORROSIVE MATERIALS:
: KWIK BOLT TZ TYPE 316 STAINLESS STEEL, BY HILTI (CANADA) CORPORATION, MISSISSAUGA, ONTARIO
2.1.2 SLEEVE ANCHOR: PROVIDE SLEEVE ANCHORS OF SIZE SHOWN ON DRAWINGS, INCLUDING MATCHING NUTS AND WASHERS:
.1 FOR DRY LOCATIONS:
: HSL3 CARBON STEEL BY HILTI (CANADA) CORPORATION, MISSISSAUGA, ONTARIO
.2 FOR WET OR HIGH HUMIDITY LOCATIONS OR LOCATIONS EXTERIOR TO THE CONDITIONED BUILDING ENVELOPE:
:HSL3 STAINLESS STEEL BY HILTI (CANADA) CORPORATION, MISSISSAUGA, ONTARIO
2.2 ADHESIVE ANCHORS IN DRILLED HOLE:
2.2.1 ANCHOR ROD: PROVIDE ANCHOR RODS OF SIZE, TYPE AND EMBEDMENT LENGTH SHOWN ON DRAWINGS INCLUDING MATCHING NUTS AND MATCHING WASHERS.
2.2.2 REINFORCING BAR: PROVIDE REINFORCING BAR AS ANCHOR ROD WHERE SPECIFIED ON DRAWING.
2.2.3 CORROSION PROTECTION: CORROSION PROTECTION IS NOT REQUIRED FOR INTERIOR ANCHOR INSTALLATIONS FOR EXTERIOR ANCHOR INSTALLATIONS. ANCHOR MATERIALS SHALL BE TYPE 304 STAINLESS STEEL.
2.2.4 ADHESIVE: ACCEPTABLE THE ADHESIVE ANCHORS SHALL BE HILTI HY 150 MAX. OR HILTI HVA OR HILTI KWIK-X DUAL ACTION OR APPROVED EQUIVALENT.
2.2.5 INSTALL ADHESIVE ANCHORS IN STRICT COMPLIANCE WITH MANUFACTURER'S RECOMMENDATIONS.

3 **EXECUTION**

3.1 DRILLED-IN ANCHORS
3.1.1 ARRANGE FOR MANUFACTURER'S TECHNICAL REPRESENTATIVE TO BE PRESENT DURING INSTALLATION OF FIRST FEW ANCHORS OF EACH TYPE. SUBMIT SITE REPORTS BY MANUFACTURER TO CONSULTANT WITHIN ONE WEEK OF EACH VISIT. INDICATE IN REPORTS ANCHOR SIZES AND TYPES INSTALLED, LOCATIONS, AND WHETHER INSTALLATION PROCEDURES WERE IN ACCORDANCE WITH MANUFACTURER'S PRINTED INSTRUCTIONS.
3.1.2 INSTALL ANCHORS IN STRICT ACCORDANCE WITH MANUFACTURER'S PRINTED INSTRUCTIONS.
3.1.3 INSTALLERS SHALL BE TRAINED BY THE MANUFACTURER.
3.1.4 DO NOT DRILL HOLES LARGER IN DIAMETER THAN INDICATED IN MANUFACTURER'S PRINTED INSTRUCTIONS.
3.1.5 PROVIDE MANUFACTURER'S STANDARD EMBEDMENT LENGTH INTO SOLID CONCRETE, UNLESS OTHERWISE NOTED ON DRAWINGS.
3.1.6 DO NOT CUT REINFORCEMENT TO ACCOMMODATE ANCHORS.
3.1.7 RELOCATE ANCHORS, AT NO ADDITIONAL COST TO CONTRACT, WHEN OBSTRUCTIONS PREVENT DRILLING HOLES TO REQUIRED DEPTH IN LOCATIONS INDICATED ON DRAWINGS.
3.1.8 OBTAIN CONSULTANT'S APPROVAL OF NEW LOCATION BEFORE DRILLING HOLE. FILL ABANDONED HOLES WITH SPECIFIED GROUT.
3.1.9 TIGHTEN EXPANSION ANCHORS USING TORQUE WRENCH. IF FINGER-TIGHT IS REQUIRED, NUT SHOULD BE BACKED OFF AFTER TORQUING.

4 **FIELD QUALITY CONTROL**

4.1 ARRANGE FOR INSPECTION AND TESTING COMPANY TO RANDOMLY SELECT AND PULL TEST ANCHORS AS FOLLOWS:
4.1.1 5% OF EACH TYPE AND SIZE OF ANCHOR INSTALLED ON A WEEKLY BASIS, BUT NOT LESS THAN ONE ANCHOR OF EACH TYPE AND SIZE.
4.1.2 PULL TEST TO TWICE THE ALLOWABLE DESIGN TENSION CAPACITY OF THE ANCHOR GIVEN BY THE MANUFACTURER.
4.1.3 SUBMIT REPORTS OF PULL TESTS TO CONSULTANT ON WEEKLY BASIS. INDICATE ON REPORT EACH ANCHOR LOCATION, TEST LOAD AND MODE OF FAILURE, IF APPLICABLE. NOTIFY CONSULTANT IMMEDIATELY AIF ANCHOR FAILS PULL TEST.

RENOVATION AND EXISTING CONDITIONS — GN-013

THE FOLLOWING NOTES ARE IN ADDITION TO THE GENERAL NOTES, THE SPECIFICATION, AND PLAN NOTES.

1. EXISTING CONDITIONS AS SHOWN ON THE STRUCTURAL DRAWINGS ARE BASED UPON THE INFORMATION AVAILABLE AT THE TIME THAT DRAWINGS WERE PREPARED.
2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO BE FULLY KNOWLEDGEABLE OF THE SITE CONDITIONS INCLUDING: THE STRUCTURE, LOCATION OF INTERFERENCES, CONDUITS, PIPES, EQUIPMENT ETC.
3. FIELD VERIFY ALL DIMENSIONS AND ELEVATIONS NECESSARY FOR THE PROPER CONSTRUCTION AND ALIGNMENT OF THE NEW PORTIONS OF THE WORK TO THE EXISTING WORK. REPORT INCONSISTENCIES TO THE CONSULTANT BEFORE PROCEEDING WITH THE WORK.
4. PRIOR TO FABRICATION OF ANY STRUCTURAL MEMBERS, THE CONTRACTOR SHALL COMPLETE THEIR SITE REVIEW OF CRITICAL "TIE-IN" DIMENSIONS AND CONFIRM ALL DIMENSIONS TO ENSURE PROPER FIT OF NEW WORK TO EXISTING WORK.
5. PROVIDE ALL NECESSARY BRACING, SHORING AND OTHER SAFEGUARDS TO MAINTAIN ALL PARTS OF THE EXISTING WORK IN A SAFE CONDITION DURING THE PROCESS OF DEMOLITION AND CONSTRUCTION AND TO PROTECT FROM DAMAGE THOSE PORTIONS OF THE EXISTING WORK WHICH ARE TO REMAIN.
6. TEMPORARY SHORING AND SUPPORT OF EXISTING STRUCTURE
   6.1 BE AWARE THAT THE EXTENT OF TEMPORARY SHORING AND SUPPORT OF STRUCTURE SHOWN ON THE STRUCTURAL DRAWINGS IS CONCEPTUAL ONLY AND THE MINIMUM EXPECTED NECESSARY TO PROVIDE SHORING AND SUPPORT DURING THE REPAIR OF EXISTING STRUCTURE, OR THE DEMOLITION OF EXISTING STRUCTURE AND CONSTRUCTION OF NEW STRUCTURE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE MEANS AND EXTENT OF REQUIRED TEMPORARY SHORING AND SUPPORT OF EXISTING STRUCTURE NECESSARY TO COMPLETE THE WORK SHOWN ON THE STRUCTURAL DRAWINGS.
   6.2 DESIGN, DETAILING AND SPECIFICATION OF INSTALLATION PROCEDURE FOR ALL REQUIRED TEMPORARY SHORING OF EXISTING STRUCTURE TO PERMIT CONSTRUCTION OF STRUCTURAL REPAIRS, OR THE DEMOLITION OF EXISTING STRUCTURE AND CONSTRUCTION OF NEW STRUCTURE AS SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE UNDERTAKEN BY A PROFESSIONAL ENGINEER EXPERIENCED IN THE DESIGN OF TEMPORARY SHORING AND SUPPORT OF EXISTING STRUCTURE AND LICENSED IN THE PROVINCE OF ONTARIO. ENGINEER MUST BE INSURED AGAINST PROFESSIONAL LIABILITY IN ACCORDANCE WITH SECTION 74 SUB-SECTION (1) OF REGULATION 941 OF THE ONTARIO PROFESSIONAL ENGINEERS ACT. SUBMIT PROOF OF TEMPORARY SHORING DESIGN ENGINEER'S PROFESSIONAL LIABILITY INSURANCE.
   6.3 BE AWARE THAT THE TEMPORARY SHORING DESIGN ENGINEER IS THE ENGINEER OF RECORD FOR THE TEMPORARY SHORING AND SUPPORT WORK WITH THE RESPONSIBILITY FOR THE DESIGN, PREPARATION AND REVIEW OF SHOP DRAWINGS AND FIELD REVIEW OF TEMPORARY SHORING AND SUPPORT WORK.
   6.4 TEMPORARY SHORING AND SUPPORT DESIGN ENGINEER SHALL SEAL ALL SHOP DRAWINGS FOR TEMPORARY SHORING AND SUPPORT SYSTEM(S). SUBMIT TO CONSULTANT FOR REVIEW SHOP DRAWINGS FOR TEMPORARY SHORING AND SUPPORT SYSTEM(S). DO NOT BEGIN INSTALLATION OF TEMPORARY SHORING AND SUPPORT SYSTEM(S) UNTIL ALL CONSULTANT COMMENTS ON SUBMITTED SHOP DRAWINGS HAVE BEEN ADDRESSED.
   6.5 TEMPORARY SHORING AND SUPPORT DESIGN ENGINEER SHALL CONDUCT FIELD REVIEW OF SHORING SYSTEM AS REQUIRED TO ENSURE PROPER INSTALLATION OF TEMPORARY SHORING AND SUPPORT SYSTEM(S), AND NOT LESS THAN AT WEEKLY INTERVALS UNTIL TEMPORARY SHORING AND SUPPORT SYSTEM IS REMOVED. PROVIDE A SEALED FIELD REVIEW LETTER OR REPORT DOCUMENTING EACH FIELD REVIEW VISIT.
   6.6 BE AWARE THAT REVIEW OF SHOP DRAWINGS AND ANY PERIODIC REVIEW OF TEMPORARY SHORING SYSTEM BY CONSULTANT IS FOR GENERAL CONFORMITY TO DESIGN CONCEPT AND GENERAL ARRANGEMENT ONLY AND THAT TEMPORARY SHORING AND SUPPORT DESIGN ENGINEER RETAINS RESPONSIBILITY AS ENGINEER OF RECORD AND THAT CONTRACTOR RETAINS RESPONSIBILITY FOR QUALITY CONTROL, ERRORS OR OMISSIONS, AND CONFORMANCE WITH THE REQUIREMENTS OF CONTRACT DOCUMENTS AND REGULATORY AUTHORITIES.
7. CONNECTIONS OF NEW STRUCTURAL STEEL FRAMING TO EXISTING STRUCTURAL STEEL SHALL BE ACHIEVED THROUGH WELDED CONNECTIONS UNLESS OTHERWISE NOTED.
   7.1 OBTAIN A REPORT FROM MATERIAL TESTING COMPANY COMMENTING ON CHEMICAL COMPOSITION AND WELDABILITY OF EXISTING STEEL. MODIFY WELDING PROCEDURES TO SUIT CHEMICAL COMPOSITION OF EXISTING STEEL.
   7.2 PAINT ON EXISTING STRUCTURAL STEEL MAY CONTAIN LEAD. REFER TO DESIGNATED SUBSTANCE SURVEY OR IF NO REPORT EXISTS OBTAIN A REPORT FROM MATERIAL TESTING COMPANY COMMENTING ON HAZARDOUS MATERIAL. MAKE ALL NECESSARY SAFETY PRECAUTIONS.
   7.3 WELDING TO AND WITHIN AN EXISTING FACILITY PRESENTS POTENTIAL HAZARDS
      7.3.1 PROTECT AGAINST FIRE:
      : PROTECT EXISTING COMBUSTIBLES PRIOR TO WELDING. KEEP A SEPARATE WATCHMAN AND SEVERAL FIRE EXTINGUISHERS ON HAND;
      : DO NOT LEAVE THE SITE UNTIL SATISFIED THAT NO FIRE HAZARD EXISTS.
      7.3.2 PROTECT AGAINST STRUCTURAL LIQUEFACTION DUE TO WELDING ACROSS THE FULL SECTION OF STRUCTURAL STEEL MEMBERS.
      : WELD IN SHORT INCREMENTS. ALLOW WELDS TO COOL BEFORE CONTINUING TO THE NEXT INCREMENT.
8. CONNECTIONS OF NEW STRUCTURAL STEEL TO EXISTING CONCRETE SHALL BE ACHIEVED BY CONCRETE ANCHORS. REFER TO DRAWINGS AND SPECIFICATION.
   8.1 DRILL AND SITE MEASURE HOLES FOR ANCHORS IN EXISTING STRUCTURE PRIOR TO FABRICATING STEEL CONNECTION PLATES. HOLE LOCATIONS MAY HAVE TO BE MOVED TO AVOID CUTTING EXISTING REINFORCING OR TO AVOID OTHER SITE CONDITIONS. OBTAIN CONSULTANT'S APPROVAL BEFORE MODIFYING CONNECTION PLATES.

PRECAST PRESTRESSED HOLLOW CORE SLAB — GN-013CS

1 GENERAL

1.1 THE FOLLOWING REFERENCE STANDARDS SHALL GOVERN WORK OF THIS SECTION:
1.1.1 CGSB 11.3, HARDBOARD.
1.1.2 CSA A23.1, CONCRETE MATERIALS AND METHODS OF CONCRETE CONSTRUCTION.
1.1.3 CSA A23.2, METHODS OF TEST FOR CONCRETE.
1.1.4 CSA A23.3, DESIGN OF CONCRETE STRUCTURES FOR BUILDINGS.
1.1.5 CSA A23.4, PRECAST CONCRETE - MATERIALS AND CONSTRUCTION.
1.1.6 CSA G30.18, BILLET-STEEL BARS FOR CONCRETE REINFORCEMENT.
1.1.7 CSA STANDARD G40.20/G40.21, GENERAL REQUIREMENTS FOR ROLLED OR WELDED STRUCTURAL QUALITY STEEL/STRUCTURAL QUALITY STEELS.
1.1.8 ASTM A153 / A153M, STANDARD SPECIFICATION FOR ZINC COATING (HOT-DIP) ON IRON AND STEEL HARDWARE
1.1.9 ASTM A416/A416M, STANDARD SPECIFICATION FOR LOW RELAXATION, SEVEN WIRE STEEL STRAND FOR PRESTRESSED CONCRETE.
1.1.10 CSA S16, DESIGN OF STEEL STRUCTURES.
1.1.11 ONTARIO BUILDING CODE (OBC).
1.1.12 NATIONAL BUILDING CODE OF CANADA (NBCC).

1.2 DESIGN OF PRECAST UNITS SHALL BE BY A PROFESSIONAL ENGINEER, LICENSED IN THE PROVINCE OF ONTARIO, WITH AT LEAST 5 YEARS EXPERIENCE IN PRECAST PRESTRESSED CORED SLAB DESIGN.

1.3 DESIGN CRITERIA
1.3.1 DESIGN PRECAST UNITS TO SUPPORT SUPERIMPOSED LOADS SHOWN ON THE DRAWINGS AND IN ACCORDANCE WITH THE ONTARIO BUILDING CODE.
1.3.2 FOR FLOOR OR ROOF CONSTRUCTION SUPPORTING OR ATTACHED TO NONSTRUCTURAL ELEMENTS LIKELY TO BE DAMAGED BY LARGE DEFLECTIONS: FOR THAT PART OF THE TOTAL DEFLECTION OCCURRING AFTER ATTACHMENT OF NONSTRUCTURAL ELEMENTS (SUM OF THE LONG-TIME DEFLECTION DUE TO ALL SUSTAINED LOADS AND THE IMMEDIATE DEFLECTION DUE TO ANY ADDITIONAL LIVE LOAD), DO NOT EXCEED SPAN/480.
1.3.3 DESIGN PRECAST UNITS SO THAT CAMBER OR DEFLECTION, BOTH SHORT AND LONG TERM, DO NOT RENDER ROOF DRAIN PLACEMENT INEFFECTIVE.
1.3.4 DESIGN PRECAST UNITS TO MEET FIRE RESISTANCE RATING BASED ON THE REQUIREMENTS OF DIVISION B (VOLUME 2) APPENDIX D OF THE NATIONAL BUILDING CODE FOR EQUIVALENT THICKNESS AND MINIMUM CONCRETE COVER.
1.3.5 DESIGN PRECAST UNITS TO HAVE CONCRETE COVER TO REINFORCEMENT IN ACCORDANCE WITH TABLE 1 OF CSA STANDARD A23.4, EXCEPT WHERE EXPOSED TO WEATHER THE CONCRETE COVER SHALL NOT BE LESS THAN 40 mm [1.5"]. IN NO CASE SHALL THE COVER BE LESS THAN NECESSARY TO MEET FIRE RESISTANCE REQUIREMENTS.
1.3.6 DESIGN STEEL HEADERS AT OPENINGS, IN ACCORDANCE WITH CSA S16. DESIGN PRECAST SLABS EACH SIDE OF HEADER TO SUPPORT REACTIONS FROM HEADER.

1.4 SUBMITTALS
1.4.1 SUBMIT PRECAST PRESTRESSED HOLLOW CORE SHOP DRAWINGS
.1 SHOW ON SHOP AND ERECTION DIAGRAMS:
: MEMBER DIMENSIONS
: DESIGN LOADING
: MATERIAL STRENGTHS
: PRESTRESSING AND REINFORCING STEEL
: FIRE RATING
: FINISHES
: BEARING DETAILS, ANCHORAGES AND CONNECTION DETAILS
: DIMENSIONS OF POCKETS TO BE FORMED BY OTHER TRADES
: STEEL HEADER SUPPORTS AT OPENINGS
: OPENINGS REQUIRED BY OTHER TRADES
: PREDICTED CAMBER OF UNITS AT TIME OF ERECTION
: LIFTING AND ERECTION INSERTS AND OTHER ITEMS CAST INTO MEMBERS
: SUPPORT HEADERS AT OPENINGS
: SHOW LOCATION OF UNIT ON ERECTION DRAWINGS BY SAME IDENTIFICATION MARK PLACED ON MEMBER

.2 EACH SHOP DRAWING SUBMITTED SHALL BEAR SIGNATURE AND SEAL OF PROFESSIONAL ENGINEER RESPONSIBLE FOR PRECAST CONCRETE DESIGN.

2 PRODUCTS

2.1 MATERIALS
2.1.1 CONFORM TO REFERENCE STANDARDS SPECIFIED HEREIN.
2.1.2 ZINC-RICH PAINT - ORGANIC READY MIXED:
: ZRC COLD GALVANIZING COMPOUND, BY ZRC WORLDWIDE, MARSHFIELD, MA.
(AVAILABLE IN ONTARIO FROM KERRY INDUSTRIES, SCARBOROUGH, ON).
: ZINC CLAD 5, BY SHERWIN WILLIAMS, MARKHAM, ON.
: MASTERPROTECT P 8100 AP BY BASF
2.1.3 BEARING PADS: 3 mm [1/8"] THICK TEMPERED HARDBOARD, SMOOTH ONE SIDE.
2.1.4 BONDING AGENT
: NON-REEMULSIFIABLE BONDING ADMIXTURE, LATEX:
: ALBITOL CONCENTRATE, BY SIKA CANADA INC., MISSISSAUGA, ON.
: SBR LATEX, BY EUCLID CHEMICAL CO., TORONTO, ON.
: PLANICRETE AC, BY MAPEI INC., BRAMPTON, ON.
2.1.5 GALVANIZING TO ASTM 153/153M.
2.1.6 GROUT
MIX ONE PART PORTLAND CEMENT TO TWO PARTS CONCRETE SAND THAT CONFORMS TO CSA STANDARD A23.1, WITH ONLY SUFFICIENT WATER THAT MIX WILL RETAIN ITS SHAPE WHEN MADE INTO BALL BY HAND. MINIMUM 28 DAY GROUT STRENGTH: 20 MPa UNLESS OTHERWISE NOTED.

3 EXECUTION

3.1 INSTALLATION
3.1.1 PROVIDE MINIMUM BEARING 90 mm [3 ½"] ON CONCRETE AND MASONRY, AND 75 mm [3"] ON STRUCTURAL STEEL.
3.1.2 LOCATE AND ADJUST BEARING PADS SO THEY DO NOT PROJECT BEYOND FACE OF SUPPORTING WALL OR BEAM.
3.1.3 PROVIDE STEEL HEADER SUPPORTS AT OPENINGS.
3.1.4 SUPPLY AND PLACE REINFORCEMENT (PRESTRESSING STRAND OR BAR REINFORCEMENT) IN JOINTS.
3.1.5 GROUT JOINT REBATES AND INTERFACES WITH MASONRY WITH SPECIFIED GROUT. SATURATE SURFACES OF JOINTS WITH WATER FOR ONE HOUR BEFORE GROUTING, AND REMOVE ANY FREE WATER BEFORE GROUTING.
3.1.6 WHERE SOFFIT IS EXPOSED, ALIGN SOFFIT OF ADJACENT UNITS SO THAT THERE IS NO NOTICEABLE DIFFERENCE IN ELEVATION WHEN VIEWED FROM FLOOR BELOW.
3.1.7 CLEAN FIELD WELDS WITH WIRE BRUSH AND TOUCH-UP WITH SPECIFIED ZINC-RICH PAINT. USE ONE COAT, EXCEPT USE TWO COATS WHEN OUTSIDE THE BUILDING ENVELOPE OR EXPOSED TO MOIST OR CORROSIVE ENVIRONMENT.
3.1.8 PRECAST MANUFACTURER/ERECTOR SHALL FIELD CUT OR DRILL HOLES AND OPENINGS FOR MECHANICAL TRADES, ONLY AT LOCATIONS APPROVED BY PRECAST MANUFACTURER'S DESIGN ENGINEER.
3.1.9 ELECTRICAL AND OTHER TRADES SHALL CUT OR DRILL THEIR OWN OPENINGS UP TO 200 MM [8"] ROUND OR SQUARE, BUT ONLY AT LOCATIONS APPROVED BY PRECAST MANUFACTURER'S DESIGN ENGINEER.
3.1.10 DO NOT CUT REINFORCEMENT WITHOUT APPROVAL OF PRECAST SLAB MANUFACTURER AND CONSULTANT.
3.1.11 PRECAST MANUFACTURER/ERECTOR SHALL DRILL, CHIP CAREFULLY, OR SAW-CUT UNITS AND GROUT IN REINFORCING BARS AND DOWELS, AS SHOWN ON DRAWINGS.

4. FIELD QUALITY CONTROL

4.1 PRECAST MANUFACTURER SHALL CARRY OUT FIELD QUALITY CONTROL TO VERIFY THAT FIELD OPERATIONS, INCLUDING BUT NOT RESTRICTED TO ERECTION, LOCATION OF BEARINGS, FASTENING, REINFORCEMENT, GROUTING, WELDING, PAINTING, AND CAULKING ARE CARRIED OUT IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS.

No.	Revision	Date
3	ISSUED FOR TENDER	2026-04-22
2	ISSUED FOR BUILDING PERMIT	2026-01-29
1	ISSUED FOR COSTING	2025-09-09

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Project Title
St Paul Addition & Reno
45 Birchcliff Ave, Kitchener, ON N2M 4V7

For
WCDSB

Dwg. Title
GENERAL NOTES

Date	Drawn By:	Dwg. No.
2026-04-22	TM	S101
Project No. ALL-25004504-A0	Checked By: AY/SZ	
Scale 1 : 1	Rev. No. 3	

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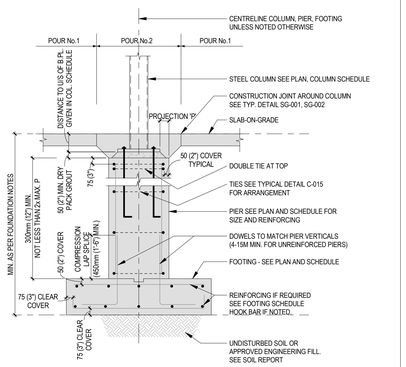
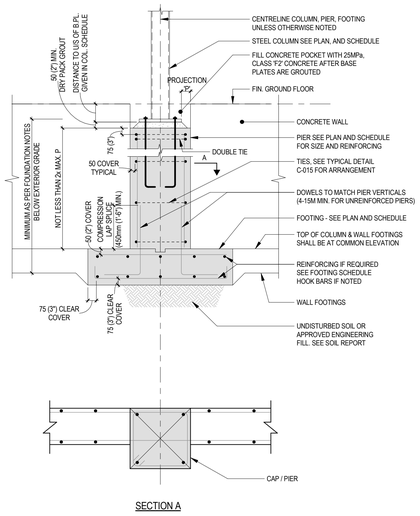
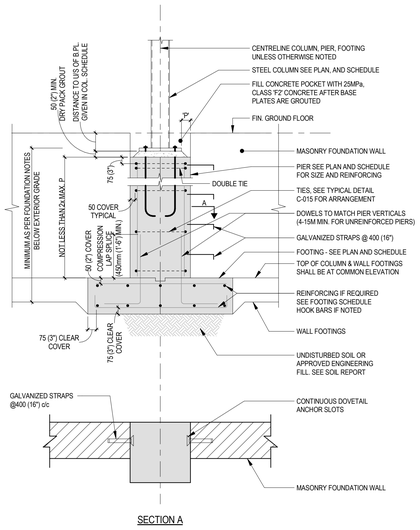
TYPICAL INTERIOR COLUMN DETAIL, STEEL COLUMN — F-001



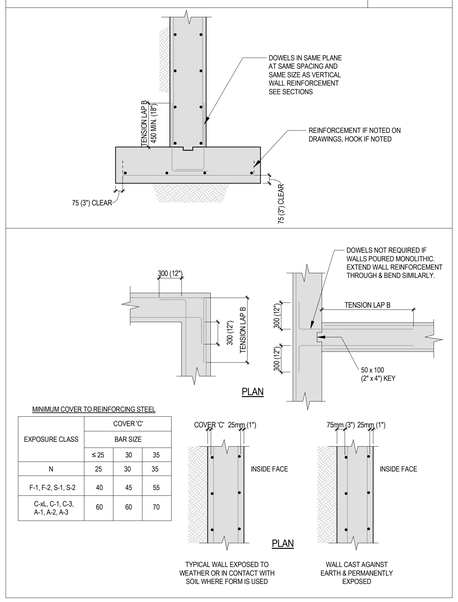
TYPICAL EXTERIOR COLUMN FOUNDATION DETAIL, STEEL COLUMN — F-003



TYPICAL EXTERIOR COLUMN FOUNDATION DETAIL, STEEL COLUMN, MASONRY WALL — F-003A



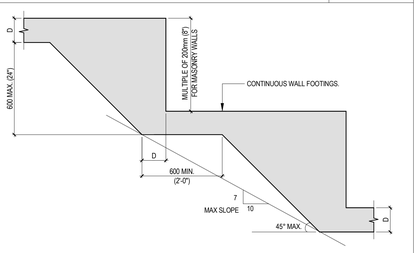
WALL FOOTING — F-005



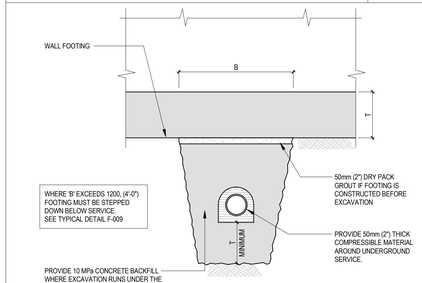
MINIMUM COVER TO REINFORCING STEEL

EXPOSURE CLASS	COVER 'C'		
	BAR SIZE		
	≤ 25	30	35
N	25	30	35
F-1, F-2, S-1, S-2	40	45	55
C-xL, C-1, C-3, A-1, A-2, A-3	60	60	70

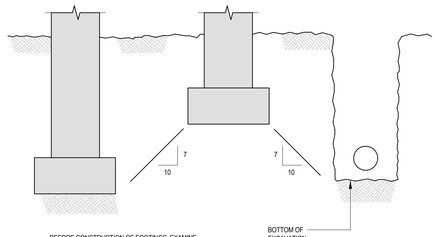
TYPICAL STEPPED FOOTING DETAIL — F-009



STRIP FOOTING OVER BURIED SERVICE — F-010



TYPICAL WALL FOOTING ADJACENT TO EXCAVATIONS — F-011

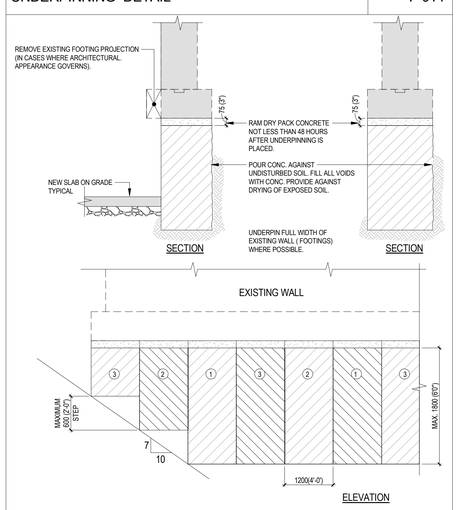


SCHEDULE OF CONCRETE PROPERTIES — C-001

STRUCTURAL ELEMENTS		ENVIRONMENT	LOCATION	CLASS OF EXPOSURE	F'c (MPa)	REMARKS
FOUNDATION	FOUNDATION WALLS	CORROSIVE		C1	35	
		NON-CORROSIVE		F2	25	
	FOOTINGS, FOOTING CAPS,	CORROSIVE	ADJACENT TO ENTRANCE CANOPY	C1	35	
		NON-CORROSIVE	AREAS NOT SUBJECTED TO DEPOSIT OF CHLORINE LADEN WATER FROM VEHICLES	N	25	
	SLAB-ON-GRADE	NON-CORROSIVE	OUTSIDE HEATED BUILDING ENVELOPE, UNREINFORCED	C2	32	
			COMPLETELY WITHIN HEATED BUILDING ENVELOPE	N	25	
SUPERSTRUCTURE	STAIRS AND STAIR LANDINGS	NON-CORROSIVE	COMPLETELY WITHIN HEATED BUILDING ENVELOPE	N	25	
	SUSPENDED SLABS, BEAMS	NON-CORROSIVE	COMPLETELY WITHIN HEATED BUILDING ENVELOPE	N	25	
SITEWORKS	APRON SLABS AND EQUIPMENT PADS			C1	35	
	CURBS AND SIDE WALKS			C2	32	
	FREESTANDING RETAINING WALLS			C1	35	
MISC.	HOUSEKEEPING PADS			N	25	
	FLOATING SLABS			N	25	
	TOPPINGS			N	25	

NOTES:
1. THIS SCHEDULE IS A PERFORMANCE-BASED SPECIFICATION IN ACCORDANCE WITH CSA A23.1, TABLE 5 ALTERNATIVE (1). NOTHING ON THE DRAWINGS OR SCHEDULES SHALL BE CONSTRUED OR INTERPRETED AS RENDERING THE SPECIFICATION TO BE ALTERNATIVE (2).
2. READ THIS SCHEDULE IN CONJUNCTION WITH THE SEPARATELY BOUND SPECIFICATIONS. FOR EXPOSURE CLASSIFICATION OF BUILDING ELEMENTS NOT SHOWN IN SCHEDULE. AND FOR OTHER CONCRETE PROPERTIES AND REQUIREMENTS INCLUDING BUT NOT LIMITED TO SUPPLEMENTARY CEMENTITIOUS MATERIALS AND AGGREGATE SIZE, REFER TO THE SEPARATELY BOUND SPECIFICATIONS.
3. CONCRETE STRENGTHS SHOWN ARE MINIMUMS. PROVIDE THE GREATER OF THE STRENGTH SHOWN ABOVE AND THE STRENGTHS SHOWN ON PLANS AND OTHER SCHEDULES ON DRAWINGS.
4. WHERE ELEMENTS OF DIFFERENT EXPOSURE CLASSIFICATIONS, STRENGTHS, CORROSION INHIBITOR DOSAGES, AND SHRINKAGE LIMITS ARE PLACED MONOLITHICALLY, USE THE MOST SEVERE EXPOSURE CLASSIFICATION, AND RESPECTIVE STRENGTH AND CORROSION INHIBITOR DOSAGE.

UNDERPINNING DETAIL — F-014



1. CONCRETE STRENGTH 15MPa MINIMUM.
2. UNDERPIN IN 1200 (4'-0") LENGTH AS SHOWN ON PLAN.
3. NUMBERS ON ELEVATION(S) ABOVE INDICATE STAGES IN WHICH UNDERPINNING SHALL PROCEED, i.e. ALL SECTIONS #1 FOLLOWED BY ALL ALL SECTIONS #2 etc. RAM DRY PACK CONC. GROUT IN PLACE AND LEAVE FOR 24 HOURS BEFORE PROCEEDING WITH NEXT STAGE
4. UNDERPINNING FOR WALL IS SHOWN FOR ASSUMED CONDITIONS. REPORT ANY VARIATION TO CONSULT BEFORE PROCEEDING WITH WORK.
5. PROVIDE NECESSARY SHORING OR NEEDLING OF EXISTING MASONRY OR OTHER PART OF EXISTING STRUCTURE IN ORDER TO CARRY OUT THIS WORK.
6. DIMENSIONS ARE mm EXCEPT DIMENSIONS IN BRACKETS ARE INCHES.
7. SHORING AND TEMPORARY SUPPORT FOR EXISTING STRUCTURE TO BE DESIGNED BY SHORING ENGINEER IF REQUIRED.

No.	Revision	Date
3	ISSUED FOR TENDER	2026-04-22
2	ISSUED FOR BUILDING PERMIT	2026-01-29
1	ISSUED FOR COSTING	2025-09-09

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Project Title

St Paul Addition & Reno

45 Birchcliff Ave, Kitchener, ON N2M 4V7

For
WCDSB

Dwg. Title

TYPICAL DETAILS

Date	Drawn By:	Dwg. No.
2026-04-22	TM	S102
Project No. ALL-25004504-A0	Checked By: AY/SZ	
Scale 1 : 1	Rev. No. 3	

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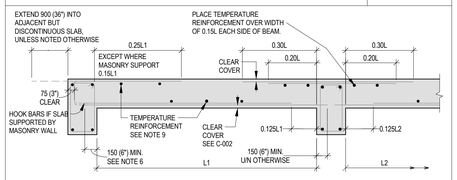
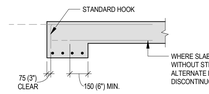
MINIMUM CONCRETE COVER TO LONGITUDINAL REINFORCEMENT — C-002

ELEMENT	BAR SIZE	EXPOSURE CLASS								
		N, N-CF			F-1, F-2, S-1, S-2			C-XL, C-1, C-3, A-1, A-2, A-3		
		FIRE RATING (HRS)								
		≤2	3	4	≤2	3	4	≤2	3	4
SLABS (TOP) NON-PARKING STRUCTURE	≤25M	30			40			60		
	30M	30			45			60		
	35M	35			55			70		
SLABS (BOTTOM) NON-PARKING STRUCTURE AND WALLS EXPOSED TO FIRE ON ONE SIDE ONLY	≤25M	25	35	40	40			60		
	30M	30	35	40	45			60		
	35M	35	35	40	55			70		
BEAMS	≤30M	50			50			60		
	35M	50			55			70		
	45M	50			70			90		
COLUMNS, AND WALLS POTENTIALLY EXPOSED TO FIRE SIMULTANEOUSLY ON BOTH FACES	≤30M	50	50	65	50	50	65	60	60	65
	35M	50	50	65	55	55	65	70	70	70
	45M	50	50	65	75	70	70	90	90	90
	55M	55	55	65	85	85	85	110	110	110
MEMBERS CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	≤35M	75			75			75		

ONE-WAY SLAB — C-003





NOTES:

1. L IS THE GREATER OF L1 AND L2
2. AT DISCONTINUOUS END, EXTEND TOP BARS TO 75 (3") FROM OUTER EDGE AND TERMINATE IN 90 DEGREE HOOK. WHERE BEAM WILL NOT ACCOMMODATE 90 DEGREE HOOK, USE 180 DEGREE HOOK.
3. PLACE LONG AND SHORT BARS ALTERNATING.
4. PROVIDE TEMPERATURE REINFORCEMENT IN SLAB. PROVIDE LAP SPLICES IN ACCORDANCE WITH DETAIL C-017.
5. FOR SLAB THICKNESSES NOT SHOWN IN TABLE, PROVIDE TEMPERATURE REINFORCEMENT = 0.002 TIMES CONCRETE CROSS-SECTIONAL AREA, AND SPACE BARS NO GREATER THAN 450 (18").
6. WHERE 150 (6") EMBEDMENT IS NOT POSSIBLE FOR SLABS FRAMING INTO CHASES IN WALLS, PROVIDE STANDARD 90 DEGREE HOOK LAID FLAT.
7. UNLESS NOTED OTHERWISE ON DRAWINGS, PROVIDE 10@250 (10") TOP BARS AT RIGHT ANGLE TO BEAMS SPANNING PARALLEL TO ONE-WAY SLAB. EXTEND REINFORCEMENT 750 (30") MINIMUM FROM FACE(S) OF BEAM. REFER TO NOTE #2 FOR SPANDREL BEAM.
8. PROVIDE CHAIRS AND BAR SUPPORTS IN ACCORDANCE WITH RSIC DETAILING MANUAL.
9. FOR SPANS WITH BOTH CONTINUOUS TOP AND BOTTOM BARS, PLACE 50 PERCENT OF TEMPERATURE REINFORCEMENT AT TOP
10. DIMENSIONS ARE MILLIMETRES, EXCEPT DIMENSIONS IN BRACKETS ARE INCHES.

TEMPERATURE REINFORCEMENT

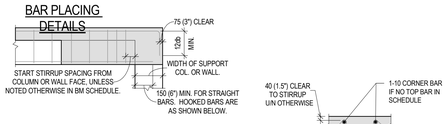
METRIC		IMPERIAL	
SLAB THICKNESS	Fy = 400 MPa As = 0.002 Ac	SLAB THICKNESS	Fy = 58 ksi As = 0.002 Ac
100	10@450	4"	10@18"
110	10@450	4 ½"	10@17"
120	10@400	5"	10@15"
130	10@380	5 ½"	10@14"
140	10@350	6"	10@13"
150	10@330	6 ½"	10@12"
160	10@310	7"	10@11"
170	10@290	7 ½"	10@10"
180	10@280	8"	10@9"
190	10@260	8 ½"	10@9"
200	10@250	9"	15@17"
220	15@450	9 ½"	15@16"
240	15@410	10"	15@15"
250	15@400	10 ½"	15@14"
260	15@380	11"	15@14"
280	15@350	11 ½"	15@13"
300	15@330	12"	15@13"
325	15@300	13"	15@12"
350	15@280	14"	15@11"
375	15@260	15"	15@10"
400	15@250	16"	15@9"

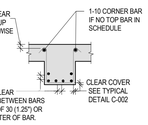
CONCRETE BEAM — C-010

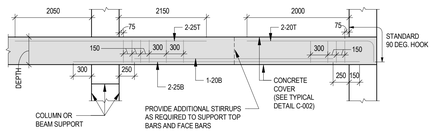
BEAM SCHEDULE

BEAM MARK	BEAM SIZE	REINFORCEMENT TOP/BOT REINF.	NO.	SIZE	LAYER	SUPPORT mm	SUPPORT mm	SUPPORT mm	SUPPORT mm	SUPPORT mm	SUPPORT mm	REMARKS
BM 101 SE	350x600	TOP	2	25	TUL	2050	2150		2000			
		TOP	2	20	TUL		250		250			
		BOT	1	20	BUL	300			150			
		BOT	2	25	BLL							
		STIRR	LE	10	SC	1@75, 3@150, 2@300						
		STIRR	RE	10	SC	1@75, 2@150, 1@300						
		HANGER		15	SC	9 PLACED IN SUPPORTING BEAM (SEE TYP. DETAIL C-011 CONC. BEAM HANGER STIRR)						

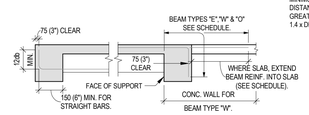
BAR PLACING DETAILS







BEAM 101 - 350 x 600 (WIDTH x DEPTH)



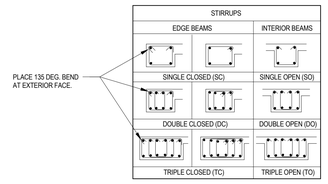
DETAIL OF BARS AT SUPPORT (DISCONTINUOUS EDGE)

1. AT DISCONTINUOUS EDGE EXTEND TOP BARS TO 75 (3") OF OUTER EDGE OF SUPPORT AND TERMINATE IN STANDARD 90 DEGREE HOOK.
2. WHERE BEAM DEPTH WILL NOT ACCOMMODATE 90 DEGREE HOOK USE STANDARD 180 DEGREE HOOK.
3. BEAM SUPPORT TYPE "W" - TOP BARS EXTEND INTO CONCRETE WALL.
4. DIMENSIONS ARE MILLIMETRES, EXCEPT DIMENSIONS IN BRACKETS ARE INCHES.

BEAM SUPPORT TYPES:
W=WALL
E=EXTERIOR
S=SLAB BEYOND
C=CONTINUOUS
O=NO SUPPORT

DETAIL OF BEAM SCHEDULE

1. DIMENSIONS ARE GIVEN LOOKING AT PLAN FROM BOTTOM OR RIGHT HAND BORDER. SEE "BEAM SUPPORT TYPES" FOR CONDITIONS AT SUPPORT. STIRRUP SPACING GIVEN STARTING FROM FACE OF SUPPORT.
2. FIRST LETTER IN SCHEDULE INDICATES CONDITION AT LEFT SUPPORT, SECOND LETTER RIGHT SUPPORT.
3. EXAMPLE IS IN METRIC UNITS. SIMILAR DETAILS APPLY TO IMPERIALLY SCHEDULED BEAMS.
4. WHERE " ==== TSB" SHOWN IN SCHEDULE, PROVIDE TENSION LAP SPLICE AT MID SPAN FOR TOP BARS AND AT FACE OF SUPPORT FOR BOTTOM BARS, UNLESS NOTED OTHERWISE.
5. WHERE "ILJ" SHOWN IN SCHEDULE, LOWER INDICATED TOP BARS BELOW THE TOP BARS SPECIFIED IN CROSS BEAM.

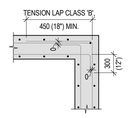


TENSION DEVELOPMENT LENGTH AND TENSION LAP SPLICES (Fy=400 MPa AND 500 MPa) — C-017

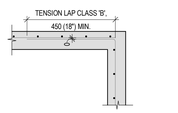
CONCRETE	25 MPa		30 MPa		35 MPa		40 MPa		45 MPa		50 MPa		CONCRETE
SPLICE	CLASS A OR Ld	CLASS B = 1.3"Ld	CLASS A OR Ld	CLASS B = 1.3"Ld	CLASS A OR Ld	CLASS B = 1.3"Ld	CLASS A OR Ld	CLASS B = 1.3"Ld	CLASS A OR Ld	CLASS B = 1.3"Ld	CLASS A OR Ld	CLASS B = 1.3"Ld	SPLICE
UNCOATED, OTHER THAN TOP BARS													
10M	300 (12)	380 (15)	300 (12)	320 (13)	300 (12)	320 (13)	300 (12)	300 (12)	300 (12)	300 (12)	300 (12)	300 (12)	10M
15M	440 (18)	570 (23)	400 (16)	520 (21)	370 (15)	480 (19)	350 (14)	450 (18)	330 (13)	420 (17)	310 (12)	400 (16)	15M
20M	580 (23)	750 (30)	530 (21)	690 (28)	490 (20)	640 (26)	460 (19)	600 (24)	430 (17)	560 (23)	410 (16)	530 (21)	20M
25M	900 (36)	1170 (47)	830 (33)	1070 (43)	760 (30)	990 (39)	720 (29)	930 (37)	670 (27)	880 (35)	640 (26)	830 (33)	25M
30M	1080 (43)	1410 (56)	990 (39)	1290 (51)	920 (37)	1190 (47)	860 (34)	1110 (44)	810 (32)	1050 (42)	770 (31)	1000 (40)	30M
35M	1260 (50)	1640 (65)	1150 (46)	1500 (60)	1070 (43)	1390 (55)	1000 (40)	1300 (52)	940 (38)	1220 (49)	890 (36)	1160 (46)	35M
UNCOATED, TOP BARS													
10M	380 (15)	490 (20)	350 (14)	450 (18)	320 (13)	420 (17)	300 (12)	390 (16)	300 (12)	370 (15)	300 (12)	350 (14)	10M
15M	570 (23)	730 (29)	520 (21)	670 (27)	480 (19)	620 (25)	450 (18)	580 (23)	420 (17)	550 (22)	400 (16)	520 (21)	15M
20M	750 (30)	980 (39)	690 (28)	890 (36)	640 (26)	830 (33)	600 (24)	770 (31)	560 (23)	730 (29)	530 (21)	690 (28)	20M
25M	1170 (47)	1530 (61)	1070 (43)	1390 (55)	990 (39)	1290 (51)	930 (37)	1210 (48)	880 (35)	1140 (45)	830 (33)	1080 (43)	25M
30M	1410 (56)	1830 (73)	1290 (51)	1670 (66)	1190 (47)	1550 (62)	1110 (44)	1450 (58)	1050 (42)	1360 (54)	1000 (40)	1290 (51)	30M
35M	1640 (65)	2130 (84)	1500 (60)	1950 (77)	1390 (55)	1800 (71)	1300 (52)	1690 (67)	1220 (49)	1590 (63)	1160 (46)	1510 (60)	35M
EPOXY-COATED BARS, OTHER THAN TOP BARS													
10M	440 (18)	570 (23)	400 (16)	520 (21)	370 (15)	480 (19)	350 (14)	450 (18)	330 (13)	420 (17)	310 (13)	400 (18)	10M
15M	650 (26)	850 (34)	600 (24)	770 (31)	550 (22)	720 (29)	520 (21)	670 (27)	490 (20)	630 (25)	460 (19)	600 (24)	15M
20M	870 (35)	1130 (45)	790 (32)	1030 (41)	730 (29)	950 (38)	690 (28)	890 (36)	650 (26)	840 (34)	610 (25)	800 (32)	20M
25M	1350 (54)	1760 (70)	1240 (49)	1610 (64)	1140 (45)	1490 (59)	1070 (43)	1390 (55)	1010 (40)	1310 (52)	960 (38)	1240 (49)	25M
30M	1620 (64)	2110 (84)	1480 (59)	1930 (76)	1370 (54)	1780 (71)	1280 (51)	1670 (66)	1210 (48)	1570 (62)	1150 (46)	1490 (59)	30M
35M	1890 (75)	2460 (97)	1730 (69)	2250 (89)	1600 (63)	2080 (82)	1500 (60)	1950 (77)	1410 (56)	1840 (73)	1340 (53)	1740 (69)	35M
EPOXY-COATED BARS, TOP BARS													
10M	490 (20)	640 (26)	450 (18)	590 (24)	420 (17)	540 (22)	390 (16)	510 (21)	370 (15)	480 (19)	350 (14)	450 (18)	10M
15M	740 (30)	960 (38)	670 (27)	880 (35)	620 (25)	810 (32)	580 (23)	760 (30)	550 (22)	720 (29)	520 (21)	680 (27)	15M
20M	980 (39)	1280 (51)	900 (36)	1170 (47)	830 (33)	1080 (43)	780 (31)	1010 (40)	730 (29)	950 (38)	700 (28)	900 (36)	20M
25M	1530 (61)	1990 (79)	1400 (56)	1820 (72)	1300 (52)	1690 (67)	1210 (48)	1580 (63)	1140 (45)	1490 (59)	1090 (43)	1410 (56)	25M
30M	1840 (73)	2390 (95)	1680 (67)	2180 (86)	1560 (62)	2020 (80)	1450 (58)	1890 (75)	1370 (54)	1780 (71)	1300 (52)	1690 (67)	30M
35M	2150 (85)	2790 (110)	1960 (78)	2550 (101)	1810 (72)	2360 (93)	1700 (67)	2210 (88)	1600 (63)	2080 (82)	1520 (60)	1970 (78)	35M

1. USE TABULATED TENSION LAP SPLICE LENGTHS UNLESS NOTED OTHERWISE ON DRAWINGS.
2. TENSION DEVELOPMENT LENGTHS, Ld DENOTED AS TENSION LAP SPLICE CLASS A.
3. FOR COLUMNS, USE COLUMN TENSION SPLICE TYPICAL DETAIL C-018.
4. TOP BARS ARE BARS WITH MORE THAN 300 (12") OF CONCRETE BELOW.
5. CLEAR COVER NOT LESS THAN db, CLEAR SPACING NOT LESS THAN 1.4 db.
6. FOR REINFORCEMENT WITH Fy = 500 MPa, INCREASE TABULATED LENGTHS BY 25%.
7. FOR STRUCTURAL LOW-DENSITY CONCRETE, INCREASE TABULATED LENGTHS BY 30%.
8. FOR STRUCTURAL SEMI-LOW DENSITY CONCRETE, INCREASE TABULATED LENGTHS BY 20%.
9. DIMENSIONS ARE MILLIMETRES, EXCEPT DIMENSIONS IN BRACKETS ARE INCHES.

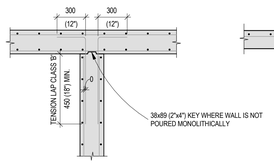
TYPICAL REINFORCED CONCRETE WALL PLAN DETAILS — C-022



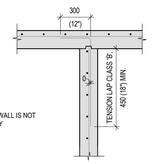
WALLS GREATER THAN OR EQUAL TO 200 (8") THICK



WALLS LESS THAN 200 (8") THICK



WALLS GREATER THAN OR EQUAL TO 200 (8") THICK

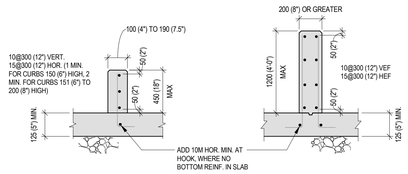


WALLS LESS THAN 200 (8") THICK

NOTES:

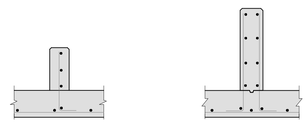
1. PROVIDE CLASS 'A' LAP SPLICE, BUT NOT LESS THAN 450 (18"), WHERE CONTINUOUS HORIZONTAL BARS ARE NOT POSSIBLE.
2. DIMENSIONS ARE MILLIMETRES, EXCEPT DIMENSIONS IN BRACKET ARE INCHES.

CONCRETE CURBS ON SLABS — C-029



100 (4") TO 190 (7.5") MAX — 200 (8") OR GREATER

CURBS (NON-VEHICULAR GUARD) ON UNREINFORCED SLAB



100 (4") TO 190 (7.5") MAX — 200 (8") OR GREATER

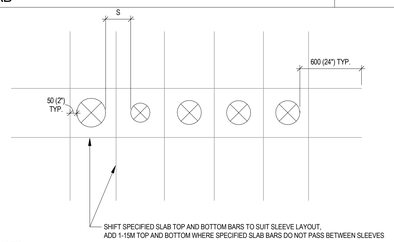
CURBS ON REINFORCED SLAB

SIMILAR TO CURBS ON UNREINFORCED SLAB EXCEPT AS NOTED

NOTES:

1. SEE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATIONS AND DIMENSIONS OF CURBS NOT SHOWN ON STRUCTURAL DRAWINGS.
2. AT TOP OF CURB, PROVIDE 20 (3/4") CHAMFERS OR ROUNDED CORNERS EACH SIDE, TYPICAL WHERE NO MASONRY ABOVE - SEE ARCHITECTURAL DRAWINGS.
3. PLACED HOOKED VERTICAL REINFORCEMENT BEFORE PLACING CONCRETE SLAB.
4. COVER IN ACCORDANCE WITH TYPICAL DETAIL C-002.
5. FOR BARS IN CURB: AS FOR TYPICAL WALLS. FOR HOOK IN SLAB: AS FOR SLABS.
6. DIMENSIONS ARE MILLIMETRES, EXCEPT DIMENSIONS IN BRACKETS ARE FEET AND INCHES.

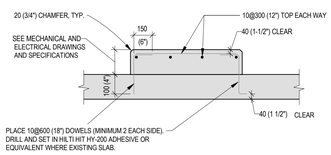
ADDITIONAL REINFORCEMENT AT SLEEVES IN SLAB — C-024



NOTES:

1. 'S' IS GREATER OF 150 (6") OR DIAMETER OF LARGER ADJACENT SLEEVE.
2. DO NOT LOCATE SLEEVES WITHIN A DISTANCE EQUAL TO 5 x (SLAB + DROP) THICKNESS FROM COLUMN UNLESS SHOWN ON STRUCTURAL DRAWINGS.
3. DO NOT LOCATE SLEEVES THROUGH BEAMS WITHOUT PRIOR WRITTEN APPROVAL BY STRUCTURAL CONSULTANT.
4. UNLESS NOTED OTHERWISE ON STRUCTURAL DRAWINGS, REINFORCE AROUND OPENINGS AND SLEEVES IN ACCORDANCE WITH DETAILS ABOVE.
5. DO NOT MAKE OPENINGS LARGER THAN 200 (8") WITHOUT PRIOR WRITTEN APPROVAL BY STRUCTURAL CONSULTANT UNLESS SPECIFICALLY SHOWN ON THE STRUCTURAL DRAWINGS.
6. SUBMIT COORDINATED SLEEVING DRAWINGS INCORPORATING ALL DISCIPLINES FOR REVIEW BY STRUCTURAL CONSULTANT PRIOR TO CONSTRUCTION. PLACE SLEEVES ONLY UPON RETURN OF REVIEWED DRAWINGS FROM CONSULTANT.
7. DIMENSIONS ARE MILLIMETRES, EXCEPT DIMENSIONS IN BRACKET ARE INCHES.

MECHANICAL HOUSEKEEPING PADS — C-028



NOTES:

1. SEE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR SIZES AND LOCATIONS.
2. DIMENSIONS ARE MILLIMETRES, EXCEPT DIMENSIONS IN BRACKETS ARE INCHES.

No.	Revision	Date
3	ISSUED FOR TENDER	2026-04-22
2	ISSUED FOR BUILDING PERMIT	2026-01-29
1	ISSUED FOR COSTING	2025-09-09

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Project Title

St Paul Addition & Reno

45 Birchcliff Ave, Kitchener, ON N2M 4V7

For

WCDSB

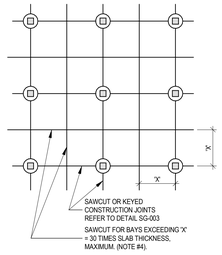
Dwg. Title

TYPICAL DETAILS

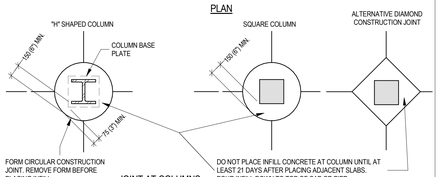
Date 2026-04-22	Drawn By: TM	Dwg. No. S103
Project No. ALL-25004504-A0	Checked By: AY/SZ	
Scale 1 : 1	Rev. No. 3	

4/22/2026 1:54:36 PM

SLAB ON GRADE - AREA PLACEMENT — SG-001



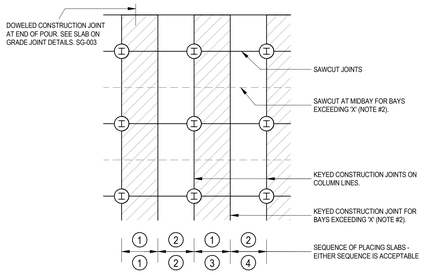
PLAN



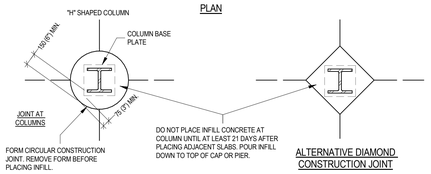
JOINT AT COLUMNS

NOTES
1. FORM AROUND COLUMNS. (NOT REQUIRED AT CIRCULAR COLUMNS).
2. PLACE SLAB AREA NO LARGER THAN CAN BE FINISHED IN ONE DAY.
3. SAWCUTCONTROL JOINTS AS SOON AS CONCRETE HAS SET SUFFICIENTLY TO AVOID RAVELING EDGES. USE EARLY ENTRY SAW (SOFF-CUT, BY HUSQVARNA). COMMENCE SAWCUTTING AS SOON AS CONCRETE CAN SUPPORT WEIGHT OF SAW AND OPERATOR WITHOUT MARRING CONCRETE SURFACE AND WITH 2 HOURS COMPLETION OF FINAL FINISHING.
4. SAWCUT AT COLUMN CENTRELINES. FOR BAYS EXCEEDING 'X' SAWCUT ALSO INTO PANELS NOT EXCEEDING 'X,' UNLESS OTHERWISE NOTED ON PLANS.
5. LIMIT RATIO OF LENGTH TO WIDTH OF ANY SAWCUT PANEL TO 1.5 MAXIMUM.
6. FILL SAWCUT JOINTS WITH SEMI-RIGID EPOXY, IN ACCORDANCE WITH SPECIFICATION.
7. DIMENSIONS ARE mm, EXCEPT DIMENSIONS IN BRACKETS ARE INCHES.
8. SUBMIT PROPOSED CONTROL AND SAWCUT JOINT LOCATIONS IN DRAWING FORMAT FOR REVIEW PRIOR TO CONSTRUCTION.

SLAB ON GRADE - STRIP PLACEMENT — SG-002



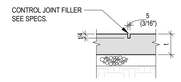
PLAN



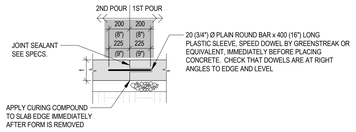
ALTERNATIVE DIAMOND CONSTRUCTION JOINT

NOTES
1. FORM AROUND COLUMNS. (NOT REQUIRED AT CIRCULAR COLUMNS).
2. 'X' = 30 TIMES SLAB THICKNESS, EXCEPT WHERE CONCRETE IS PROPORTIONED FOR MAXIMUM BULK DENSITY IN ACCORDANCE WITH SPECIFICATION, 'X' = 40 TIMES SLAB THICKNESS.
3. PLACE SLAB STRIPS NUMBER ONE, HALF BAY WIDTH BY LENGTH THAT CAN BE PLACED AND FINISHED IN TIME AVAILABLE.
4. SAWCUT CONTROL JOINTS AS SOON AS CONCRETE HAS SET SUFFICIENTLY TO AVOID RAVELING EDGES. USE EARLY ENTRY SAW (SOFF-CUT, BY HUSQVARNA). COMMENCE SAWCUTTING AS SOON AS CONCRETE CAN SUPPORT WEIGHT OF SAW AND OPERATOR WITHOUT MARRING CONCRETE SURFACE AND WITH 2 HOURS COMPLETION OF FINAL FINISHING.
5. SAWCUT AT COLUMN CENTRELINES AND FOR BAYS EXCEEDING DIMENSION 'X.'
6. SAWCUT ALSO AT MIDBAY. FOR STRIPS LONGER THAN 75 m (245), MAKE 20 (3/4") DEEP TO WIDTH OF ANY SAWCUT PANEL TO 1.5.
7. FILL SAWCUT JOINTS WITH SEMI-RIGID EPOXY, IN ACCORDANCE WITH SPECIFICATION.
8. DIMENSIONS ARE mm, EXCEPT DIMENSIONS IN BRACKETS ARE INCHES.

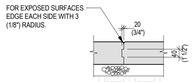
SLAB ON GRADE - JOINT DETAILS — SG-003



SAWCUT CONTROL JOINT

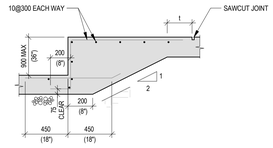


DOWELED CONSTRUCTION JOINT FOR SLAB GREATER THAN 100 (4")

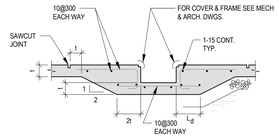


KEYED CONSTRUCTION JOINT FOR SLAB GREATER THAN 100 (4") (OMIT KEY FOR 100 (4") SLABS)

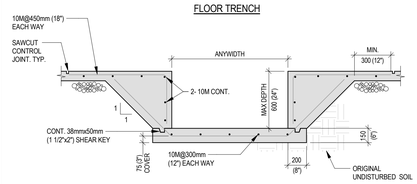
SLAB ON GRADE - STEPS, TRENCHES & SHALLOW PITS — SG-004



STEP

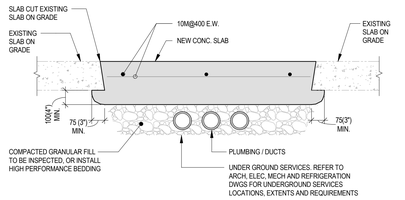


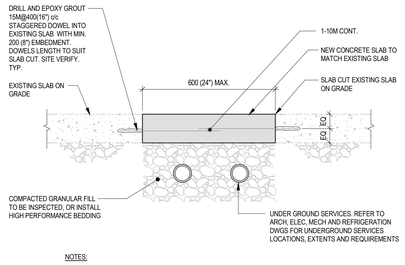
FLOOR TRENCH



TYPICAL SHALLOW PITS.

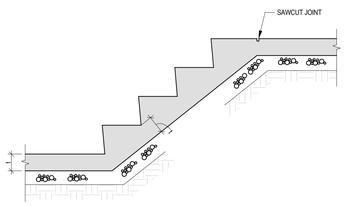
TRENCH FOR M/E SERVICES IN EXISTING SLAB ON GRADE — RN-010



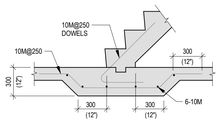


NOTES:
1. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS, DIMENSIONS AND ADDITIONAL DETAILS.
2. EPOXY TO BE HILTI HIT-HY 200 OR APPROVED EQUIVALENT

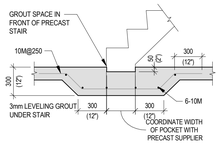
SLAB ON GRADE - STAIRS — SG-005



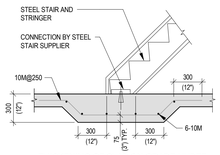
SUPPORT OF STAIRS AT GRADE — SG-006



CAST IN PLACE STAIRS

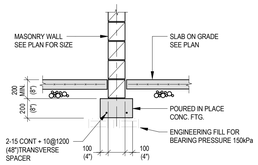


THICKENING OF SLAB ON GRADE UNDER PRECAST STAIR

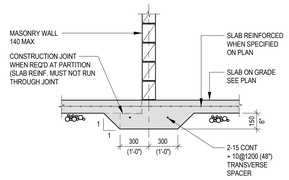


THICKENING OF SLAB ON GRADE UNDER STEEL STAIRS

MASONRY PARTITION SUPPORT ON SLAB ON GRADE — SG-007

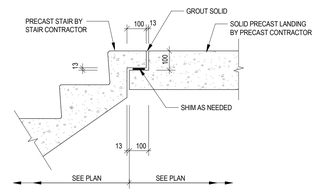


FOOTING AT MASONRY PARTITIONS EXCEEDING 3500 (12'-0") HIGH OR 150 (6") IN THICKNESS

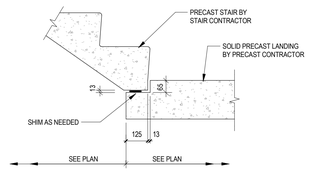


THICKENING AT MASONRY PARTITIONS NOT EXCEEDING 150 (6") IN THICKNESS AND 3600 (12'-0") IN HEIGHT

PRECAST STAIR /SOLID PRECAST LANDING — HCM-013



PRECAST STAIR/SOLID PRECAST LANDING /DOWN



PRECAST STAIR/SOLID PRECAST LANDING /UP

NOTES:
1. GROUT AND REINFORCING STEEL SHOWN ON THIS DETAIL THAT ARE INTEGRAL WITH PRECAST, INCLUDING TIE BARS IN GROUT JOINTS AND AROUND PERIMETER, ARE TO BE PROVIDED AND INSTALLED BY PRECAST SLAB CONTRACTOR
2. ALL REINFORCING STEEL SHOWN ON THIS DETAIL THAT IS INTEGRAL WITH CONCRETE WALLS INCLUDING VERTICAL AND DOWELS, IS TO BE PROVIDED BY GENERAL CONTRACTOR.
3. IT IS PRECAST SLAB CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH GENERAL CONTRACTOR FOR REBAR AND GROUT INSTALLATION/CONSTRUCTION SEQUENCES.
4. IT IS PRECAST SLAB CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL NECESSARY MEANS AND METHOD FOR REBAR AND GROUT CONSTRUCTION AND SLAB INSTALLATION.

No.	Revision	Date
3	ISSUED FOR TENDER	2026-04-22
2	ISSUED FOR BUILDING PERMIT	2026-01-29
1	ISSUED FOR COSTING	2025-09-09

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Project Title
St Paul Addition & Reno
45 Birchcliff Ave, Kitchener, ON N2M 4V7

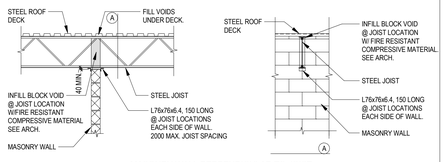
For
WCDSB

Dwg. Title
TYPICAL DETAILS

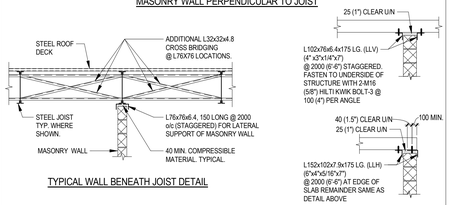
Date	Drawn By:	Dwg. No.
2026-04-22	TM	S104
Project No. ALL-25004504-A0	Checked By: AY/SZ	
Scale 1 : 1	Rev. No. 3	

4/22/2026 1:54:38 PM

LATERAL SUPPORT AT NON-LOAD BEARING MASONRY PARTITION WALLS — M-001

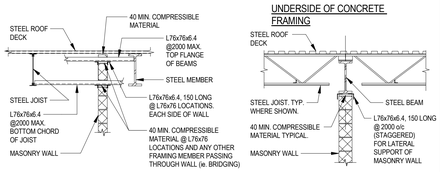


MASONRY WALL PERPENDICULAR TO JOIST



TYPICAL WALL BENEATH JOIST DETAIL

UNDERSIDE OF CONCRETE FRAMING



TYPICAL WALL PARALLEL TO JOIST DETAIL

TYPICAL WALL BENEATH BEAM DETAIL

LINTEL SCHEDULE AND NOTES — M-002

NON-LOAD BEARING PARTITIONS

BLOCK LINTELS

MAX CLEAR SPAN	140 BLOCK				190 BLOCK				240 BLOCK				290 BLOCK			
	b	d	REBAR	STIRRUPS	b	d	REBAR	STIRRUPS	b	d	REBAR	STIRRUPS	b	d	REBAR	STIRRUPS
UP TO 1200	140	190	1-10 T&B	/	190	190	1-10 T&B	/	240	190	1-10 T&B	/	240	190	1-10 T&B	/
1201 TO 1800	140	390	1-10 T&B	/	190	390	1-15 T&B	/	240	390	1-15 T&B	/	240	390	1-15 T&B	/
1801 TO 2300	140	390	1-15 T&B	/	190	390	1-20 T&B	10@200	240	390	1-20 T&B	10@200	240	390	1-25 T&B	10@200
> 2300 USE STEEL LINTEL																

NOTES:
1. CONCRETE FILL: 20 MPa MIN. STRENGTH WITH 150 SLUMP
2. BEARING LENGTH: 200 MIN. AT EACH END.

STEEL LINTELS

MAX CLEAR SPAN	140 BLOCK		190 BLOCK		240 BLOCK		290 BLOCK	
	BEAM	PLATE	BEAM	PLATE	BEAM	PLATE	BEAM	PLATE
2300 TO 2600	S200x27	130x10	S200x27	180x10	S200x27	230x10	S200x27	280x10

300 E.E. 75@300 BETWEEN

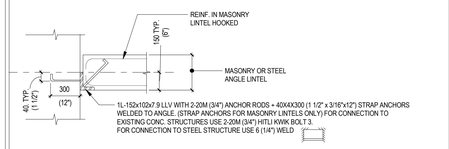
NOTES:
1. BEARING LENGTH: 150 MIN. EACH END. BEAR PLATE ON BUTTER COAT OF CEMENT MORTAR EACH END.

BRICK AND BLOCK WYTHES

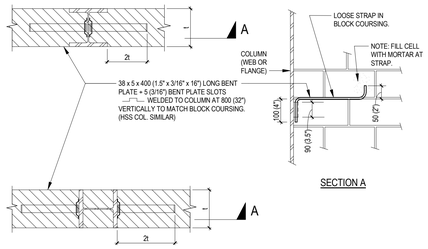
MAX CLEAR SPAN	1-100 THICK WYTH	2-100 THICK WYTH	3-100 THICK WYTH	4-100 THICK WYTH	5-100 THICK WYTH
UP TO 1500	L 89x89x7.9	L 89x89x7.9	L 89x89x7.9	L 89x89x7.9	L 89x89x7.9
1501 TO 2300	L 127x89x7.9	L 127x89x7.9	L 127x89x7.9	L 127x89x7.9	L 127x89x7.9
2301 TO 2600	L 152x89x7.9	L 152x89x7.9	L 152x89x7.9	L 152x89x7.9	L 152x89x7.9

NOTES:
1. LONG LEGS VERTICAL
2. BEARING LENGTH 150 MIN. EACH END. SET STEEL ANGLE LINTELS WITH ENDS WRAPPED WITH 6mm POLYETHYLENE SHEET ON 10GA. GALV. STEEL PLATES ON MASONRY EA. END.
3. CONNECT ANGLES BACK TO BACK AT 600 o/c BY WELDING OR BOLTING ANGLES GREATER THAN 1800 LONG. USE 16 DIA. BOLTS.
4. FOR LOCATIONS & SIZES OF OPENINGS, SEE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS.

LINTEL CONNECTION TO CONCRETE OR STEEL STRUCTURE



ANCHORAGE OF MASONRY TO STRUCTURAL STEEL — M-003

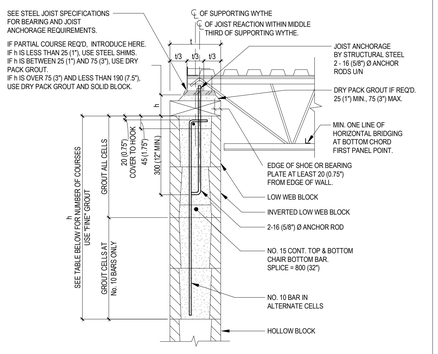


COLUMN TIES

SECTION A

DIMENSIONS ARE mm EXCEPT DIMENSIONS IN BRACKETS ARE INCHES.

ROOF JOIST BEARING DETAIL — M-004

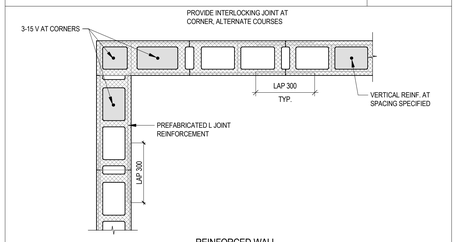


JOIST SPAN (FOR JOISTS 2 SIDES OF WALL. USE AVERAGE SPAN).	h - NUMBER OF REINFORCED COURSES					
	EXTERIOR (JOISTS 1 SIDE OF WALL)			INTERIOR (JOISTS 2 SIDES OF WALL)		
	190 (8")	240 (10")	290 (12")	190 (8")	240 (10")	290 (12")
10000 (33) OR LESS	4	3	3	8	6	5
12000 (39') OR LESS	5	4	3	10	8	6
14000 (46') OR LESS	6	4	4	11	9	7
16000 (52') OR LESS	6	5	4	13	10	8
18000 (59') OR LESS	7	6	5	14	11	10
20000 (65') OR LESS	8	6	5	16	13	11
22000 (72') OR LESS	9	7	6	18	14	12
24000 (79') OR LESS	10	8	6	19	15	13
26000 (85') OR LESS	10	8	7	21	17	14

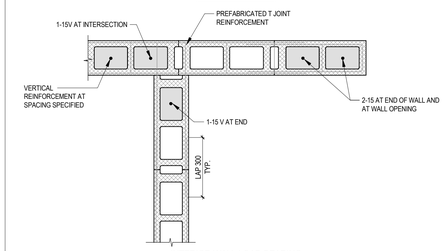
DIMENSIONS ARE mm EXCEPT DIMENSIONS IN BRACKETS ARE FEET AND INCHES.

EDIT NOTE: TABLE VALUES MUST BE EVALUATED EACH PROJECT

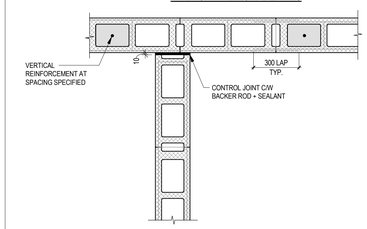
REINFORCED MASONRY WALL DETAILS — M-008



REINFORCED WALL

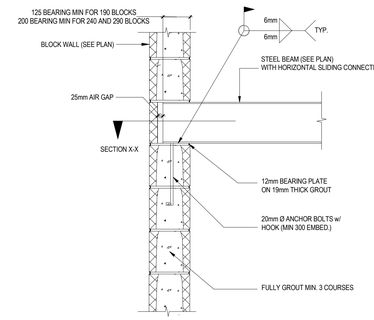


INTERIOR WALL LOAD BEARING

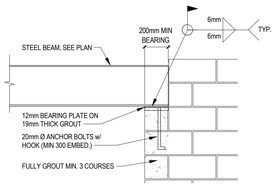


NON LOAD BEARING PARTITION WALL

STEEL BEARING ON MASONRY DETAIL — M-009

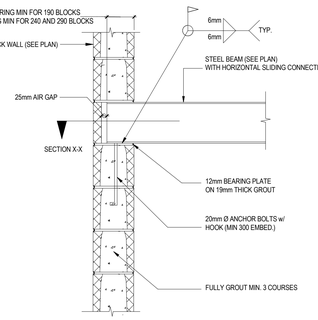


BEAM PERPENDICULAR TO WALL

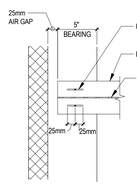


BEAM PARALLEL TO WALL

STEEL BEARING ON EXISTING MASONRY DETAIL — M-0010

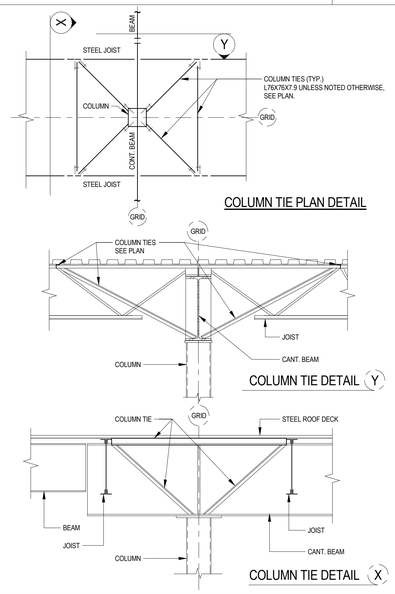


BEAM PERPENDICULAR TO WALL



SECTION X-X

COLUMN TIE DETAILS, NO JOIST AT COLUMN — S-001

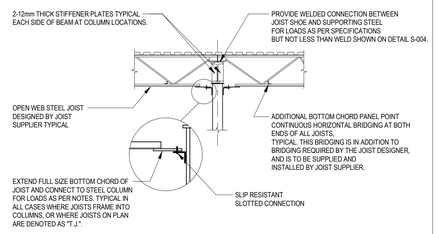


COLUMN TIE PLAN DETAIL

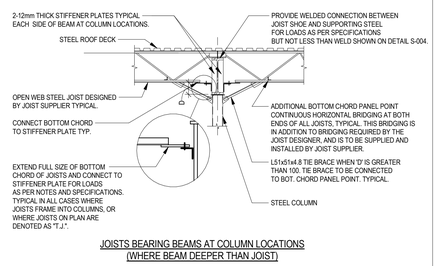
COLUMN TIE DETAIL Y

COLUMN TIE DETAIL X

JOISTS BEARING ON BEAMS AT COLUMN LOCATIONS — S-002

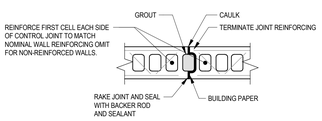


JOISTS BEARING ON BEAMS AT COLUMN LOCATIONS (WHERE JOIST DEEPER THAN BEAM)



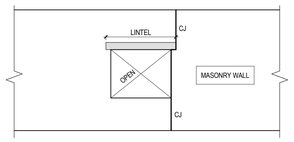
JOISTS BEARING BEAMS AT COLUMN LOCATIONS (WHERE BEAM DEEPER THAN JOIST)

MASONRY VERTICAL CONTROL JOINT — M-006



NOTES:
1. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR LOCATIONS.

2. FOR JOINTS ADJACENT TO OPENINGS:
   a. BELOW OPENING, MAINTAIN VERTICAL ALIGNMENT WITH SIDE OF OPENING.
   b. ABOVE OPENING, OFFSET JOINT TO END OF LINTEL BEARING.



MINIMUM REINFORCEMENT FOR REINFORCED MASONRY WALLS — M-007

1. MINIMUM REINFORCEMENT FOR REINFORCED MASONRY WALLS, SEISMIC HAZARD INDEX(I_E Fa Sa (0.2)) < 0.35:

WALL THICKNESS	VERTICAL REINFORCEMENT	HORIZONTAL REINFORCEMENT
140	10 @ 800	STANDARD (3.66mm) @ 400
190	15 @ 1000	STANDARD (3.66mm) @ 400
240	20 @ 1000	STANDARD (3.66mm) @ 400
290	2-15 @ 1000 (1 each face)	STANDARD (3.66mm) @ 400

2. MINIMUM REINFORCEMENT FOR REINFORCED MASONRY WALLS, SEISMIC HAZARD INDEX(I_E Fa Sa (0.2)) > 0.35:

WALL THICKNESS	VERTICAL REINFORCEMENT	HORIZONTAL REINFORCEMENT
140	15 @ 1000	STANDARD (3.66mm) @ 200
190	15 @ 800	HEAVY DUTY (4.76mm) @ 200
240	20 @ 800	HEAVY DUTY (4.76mm) @ 200
290	2-15 @ 1000 (1 each face)	STANDARD (3.66mm) @ 400 PLUS 2-15 IN BOND BEAMS AT 2400

3. MINIMUM REINFORCEMENT FOR MASONRY PARTITION WALLS, SEISMIC HAZARD INDEX(I_E Fa Sa (0.2)) > 0.35:

WALL THICKNESS	VERTICAL REINFORCEMENT	HORIZONTAL REINFORCEMENT
140	10 @ 1200	STANDARD (3.66mm) @ 400
190	10 @ 1000	STANDARD (3.66mm) @ 400
240	15 @ 1200	STANDARD (3.66mm) @ 400
290	15 @ 1200	STANDARD (3.66mm) @ 400

4. MINIMUM LAP LENGTHS:

BAR SIZE	LAP LENGTH(mm)
10	450
15	650
20	850
SMOOTH WIRE	300

NOTES:
1. PROVIDE MINIMUM REINFORCEMENT AS INDICATED UNLESS SHOWN OTHERWISE ON DRAWINGS.
2. GROUT FILL CORES WHERE VERTICAL REINFORCEMENT LOCATED.
3. PROVIDE DOWELS TO MATCH VERTICALS.
4. HORIZONTAL REINFORCEMENT : GALVANIZED CONTINUOUS LADDER, 50mm NARROWER THAN WALL THICKNESS

No.	Revision	Date
3	ISSUED FOR TENDER	2026-04-22
2	ISSUED FOR BUILDING PERMIT	2026-01-29
1	ISSUED FOR COSTING	2025-09-09

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Project Title
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45 Birchcliff Ave, Kitchener, ON N2M 4V7

For
WCDSB

Dwg. Title
TYPICAL DETAILS

Date	Drawn By:	Dwg. No.
2026-04-22	TM	S105
Project No. ALL-25004504-A0	Checked By: AY/SZ	
Scale: As indicated	Rev. No. 3	

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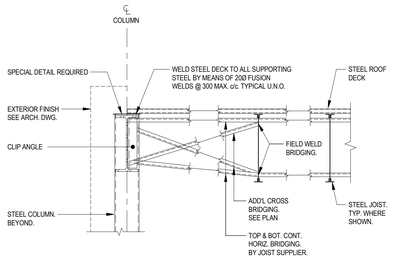
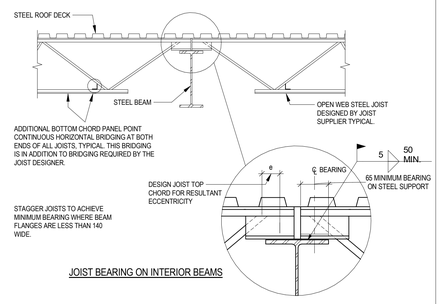
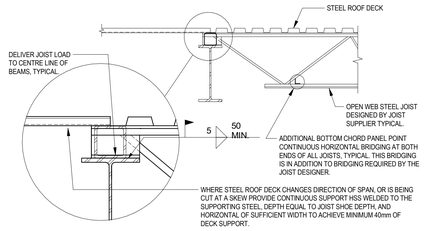
STEEL DECK AND HORIZONTAL BRIDGING DETAIL — S-003



STRUCTURAL STEEL JOIST DETAILS — S-004

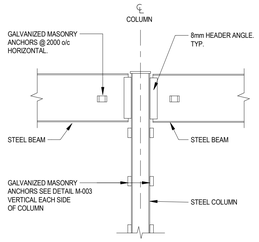


JOIST BEARING ON INTERIOR BEAMS



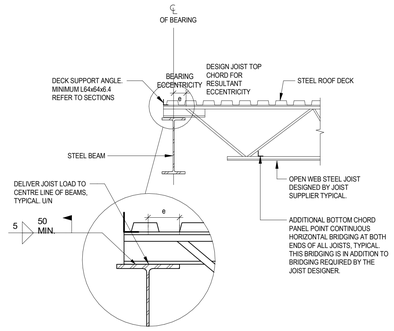
JOIST AND DECK BEARING ON BEAM

BEAM TO COLUMN CONNECTION DETAIL — S-005

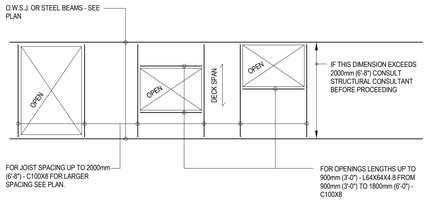


TYPICAL BEAM TO COLUMN CONNECTION

JOIST BEARING ON EXTERIOR BEAM — S-006



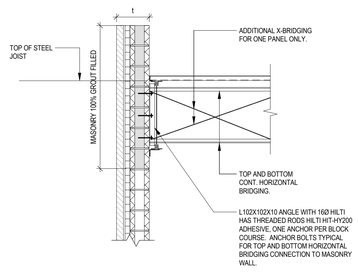
TRIMMING AT OPENINGS IN DECK — S-008



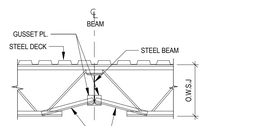
NOTES:

1. TOP OF ALL TRIMMING AT UNDERSIDE OF STEEL DECK UNLESS OTHERWISE NOTED
2. LOCATION OF MECHANICAL UNITS AND OPENINGS THROUGH ROOF IS BASED ON INFORMATION SHOWN ON MECHANICAL DRAWINGS. THE STRUCTURAL STEEL SUB-CONTRACTOR MUST CONFIRM ALL THESE DIMENSIONS AND SIZES WITH THE MECHANICAL CONTRACTOR
3. O.W.S.J. MUST BE DESIGNED FOR ADDITIONAL LOADS FOR MECHANICAL UNITS.
4. IF ACTUAL LOCATIONS OR DETAILS VARY FROM THOSE SHOWN, THE STRUCTURAL CONSULTANT MUST BE INFORMED AND INSTRUCTIONS RECEIVED BEFORE PROCEEDING WITH THE WORK.
5. THE STRUCTURAL STEEL SUB-CONTRACTOR IS TO SUBMIT ERECTION DRAWINGS TO THE MECHANICAL ENGINEER AND/OR CONTRACTOR FOR APPROVAL OF SIZE AND LOCATION OF OPENINGS FOR MECHANICAL UNITS.

BRIDGING CONNECTION TO MASONRY WALL — S-011



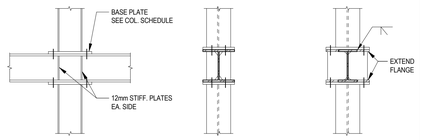
TIE JOIST AT BEAM — S-013



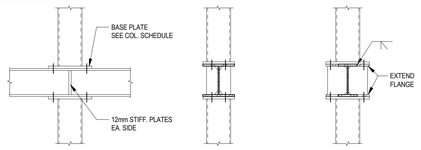
COLUMNS BEARING ON BEAMS BEARING ON COLUMNS — S-015

W COLS. WEB PARALLEL

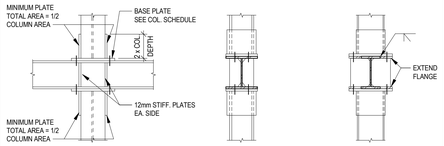
COL./BEAMS WEBS PARALLEL | BEAM WIDER THAN COL. | COL. WIDER THAN BEAM.



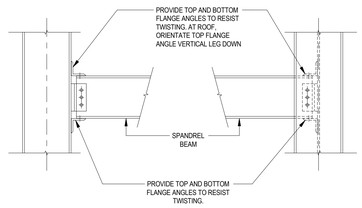
HSS COLS.



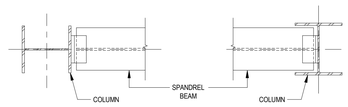
W COLS.



SPANDREL BEAM CONNECTION — S-016



ELEVATION

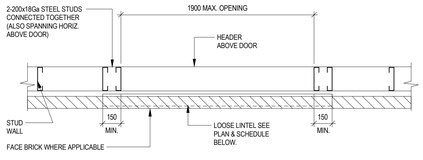


PLAN

NOTES:

1. SPANDREL BEAM IS DEFINED AS AN EXTERIOR PERIMETER BEAM.
2. SUPPORT SHOWN IS A "W" COLUMN. PROVIDE SIMILAR CONNECTION AT OTHER TYPES OF SUPPORT, SUCH AS "HSS" COLUMN, OR GIRDER SUPPORT.
3. WHEN BEAM IS TOO WIDE TO ENTER BETWEEN COLUMN FLANGES, CONNECT TOP AND BOTTOM ANGLES TO COLUMN FLANGES.

DOOR LINTEL DETAIL — S-012

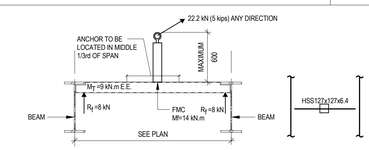


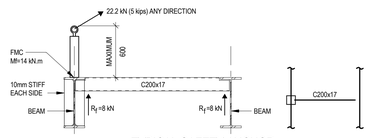
OPENING SIZE	LINTEL
UP TO 1500 mm	L89x89x7.9
FROM 1501 mm TO 1900 mm	L127x89x7.9 LLV

NOTE:

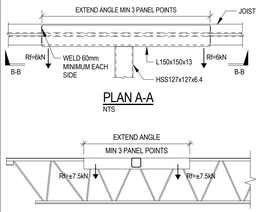
PROVIDE LOOSE ANGLE LINTEL OVER ALL OPENINGS IN EXTERIOR WALLS. SEE ARCH. DRAWINGS FOR NUMBERS AND LOCATIONS REQUIRED. FOR LINTELS NOT SHOWN ON PLAN FOLLOW SCHEDULE ABOVE.

SAFETY ROOF ANCHOR ASSEMBLY DETAILS — S-014

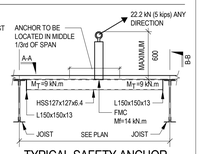




TYPICAL SAFETY ANCHOR SUPPORT DETAILS - BEAMS
NTS



PLAN A-A
NTS



TYPICAL SAFETY ANCHOR SUPPORT DETAIL - JOISTS
NTS
SAFETY ANCHOR LOAD NEED TO BE CONSIDERED TO ACT SIMULTANEOUSLY WITH SNOW LOAD

ELEVATION B-B
NTS

No.	Revision	Date
3	ISSUED FOR TENDER	2026-04-22
2	ISSUED FOR BUILDING PERMIT	2026-01-29
1	ISSUED FOR COSTING	2025-09-09

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Project Title

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For

WCDSB

Dwg. Title

TYPICAL DETAILS

Date	Drawn By:	Dwg. No.
2026-04-22	TM	S106
Project No. ALL-25004504-A0	Checked By: AY/SZ	
Scale 1 : 1	Rev. No. 3	

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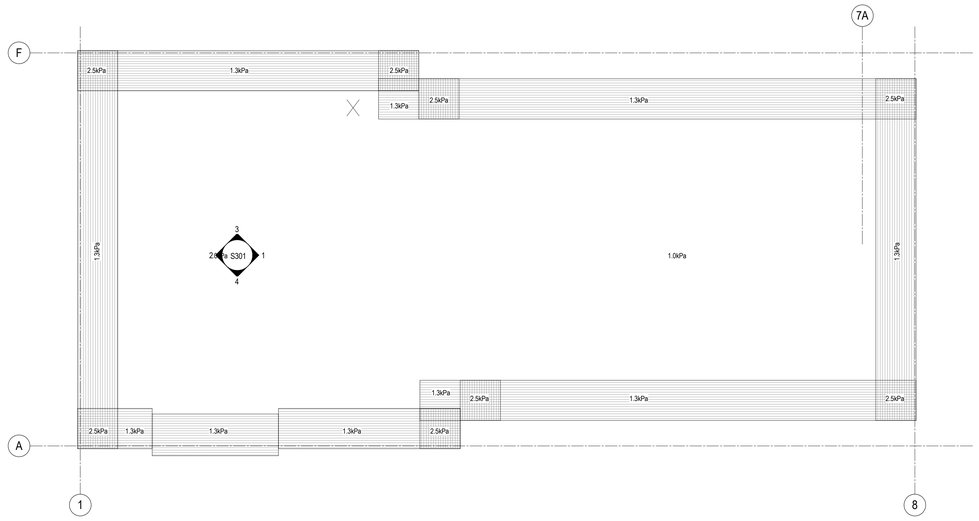

WIND UPLIFT PLAN

1 : 150

NOTE:

1. VALUES SHOWN ARE UNFACTORED.
2. DESIGN ROOF ELEMENTS AND THEIR ANCHORAGE TO THE WIND UPLIFT FORCE AND NOT LESS THAN THE REQUIREMENT OF THE OBC

No.	Revision	Date
3	ISSUED FOR TENDER	2026-04-22
2	ISSUED FOR BUILDING PERMIT	2026-01-29
1	ISSUED FOR COSTING	2025-09-09

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For

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Dwg. Title

LOADING PLANS

Date	Drawn By:	Dwg. No.
2026-04-22	TM	S110
Project No. ALL-25004504-A0	Checked By: AY/SZ	
Scale 1 : 150	Rev. No. 3	

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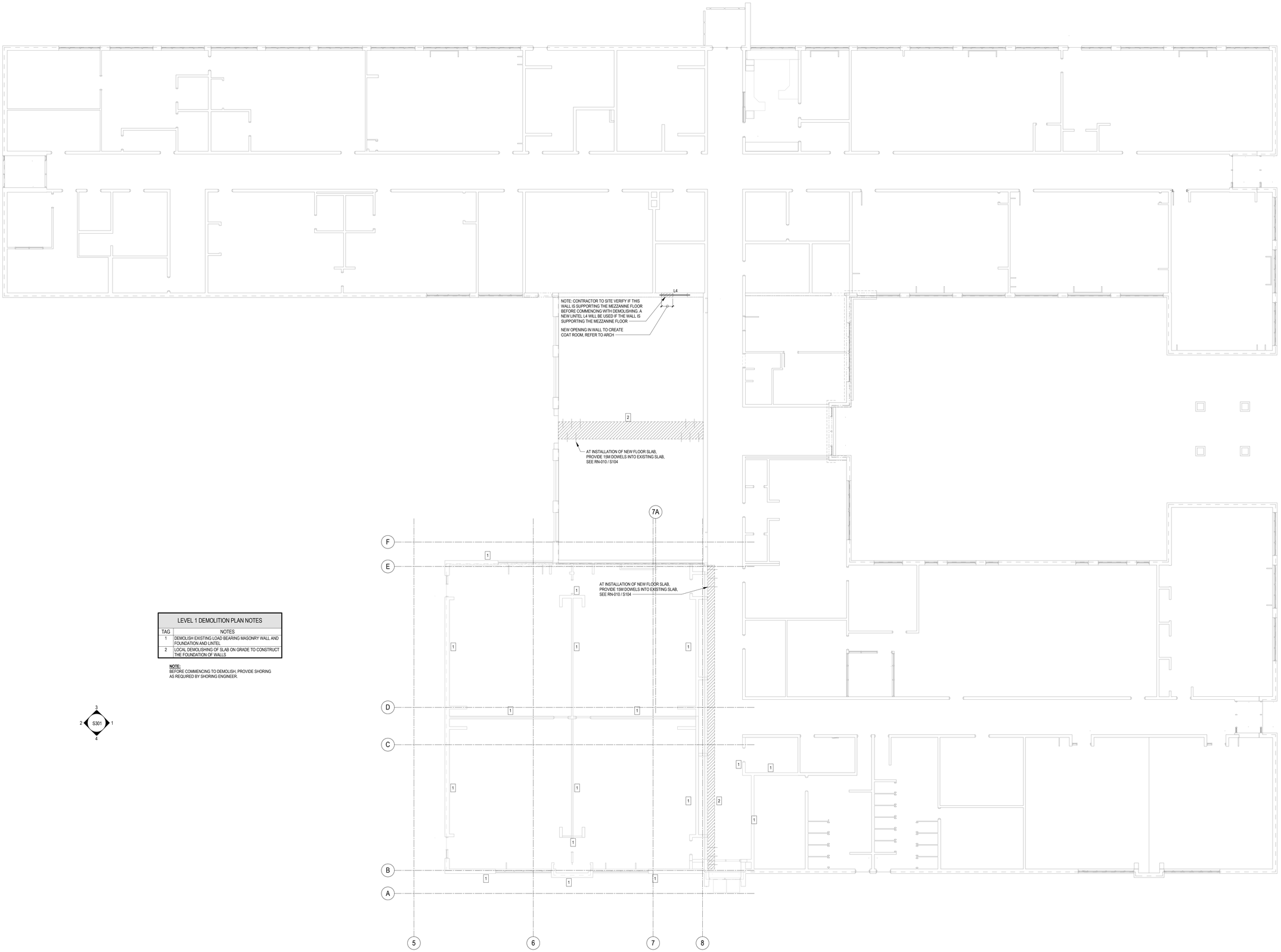

1 / S151 **LEVEL 1 DEMOLITION PLAN**
1 : 100

LEVEL 1 DEMOLITION PLAN NOTES	
TAG	NOTES
1	DEMOLISH EXISTING LOAD BEARING MASONRY WALL AND FOUNDATION AND LINTEL
2	LOCAL DEMOLISHING OF SLAB ON GRADE TO CONSTRUCT THE FOUNDATION OF WALLS

NOTE:
BEFORE COMMENCING TO DEMOLISH, PROVIDE SHORING AS REQUIRED BY SHORING ENGINEER

3 / 2 S301 1 / 4

No.	Revision	Date
3	ISSUED FOR TENDER	2026-04-22
2	ISSUED FOR BUILDING PERMIT	2026-01-29
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Dwg. Title
LEVEL 1 DEMOLITION PLAN

Date	Drawn By:	Dwg. No.
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Project No. ALL-25004504-A0	Checked By: AY/SZ	
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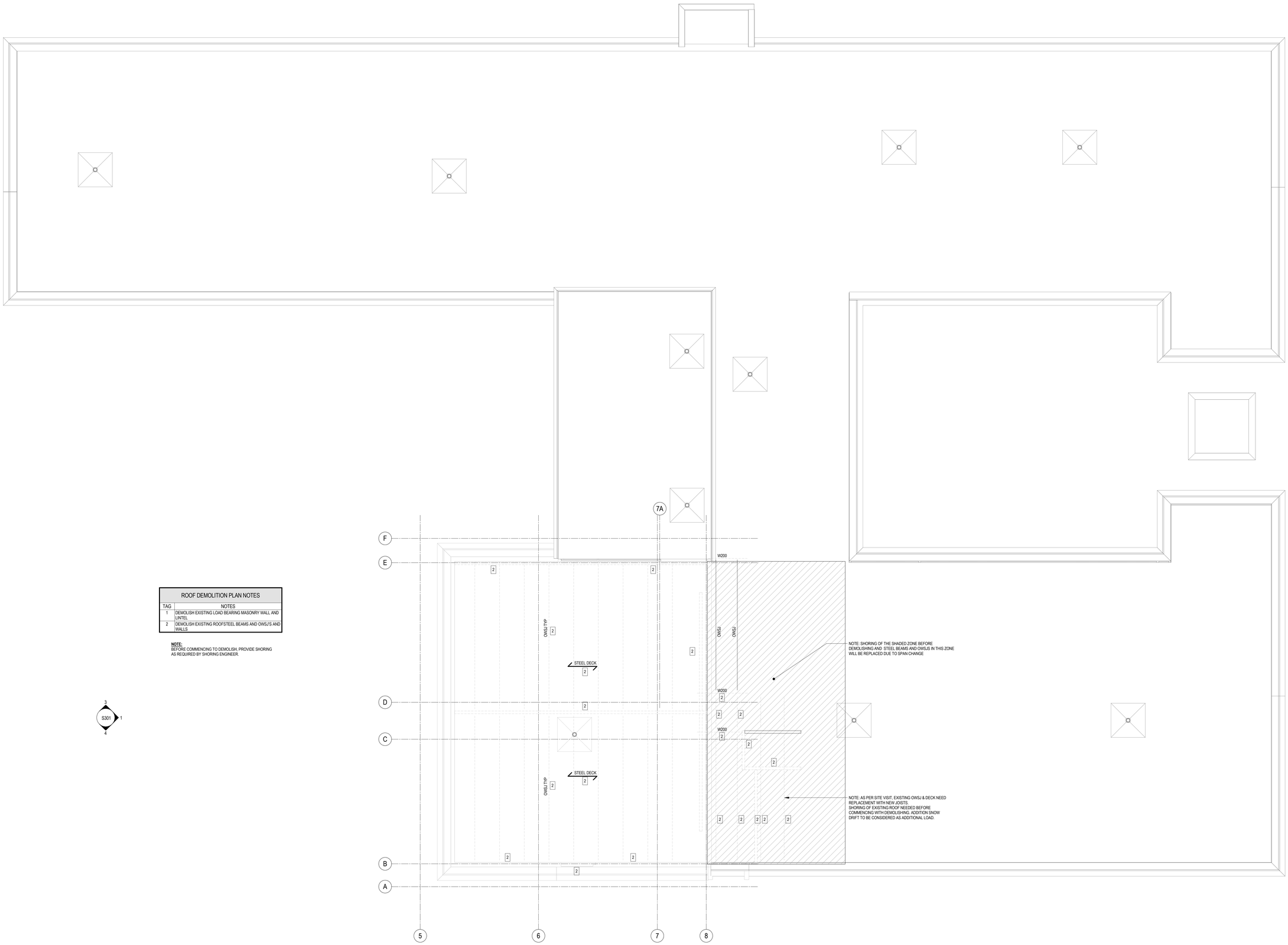

1 **ROOF DEMOLITION PLAN**
S152 1 : 100

ROOF DEMOLITION PLAN NOTES	
TAG	NOTES
1	DEMOLISH EXISTING LOAD BEARING MASONRY WALL AND LINTEL
2	DEMOLISH EXISTING ROOFSTEEL BEAMS AND OWSJ'S AND WALLS

NOTE:
BEFORE COMMENCING TO DEMOLISH, PROVIDE SHORING AS REQUIRED BY SHORING ENGINEER.

3 S301 1 4

No.	Revision	Date
3	ISSUED FOR TENDER	2026-04-22
2	ISSUED FOR BUILDING PERMIT	2026-01-29
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For
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Dwg. Title
ROOF DEMOLITION PLAN

Date 2026-04-22	Drawn By: TM	Dwg. No. **S152**
Project No. ALL-25004504-A0	Checked By: AY/SZ	
Scale As indicated	Rev. No. 3	

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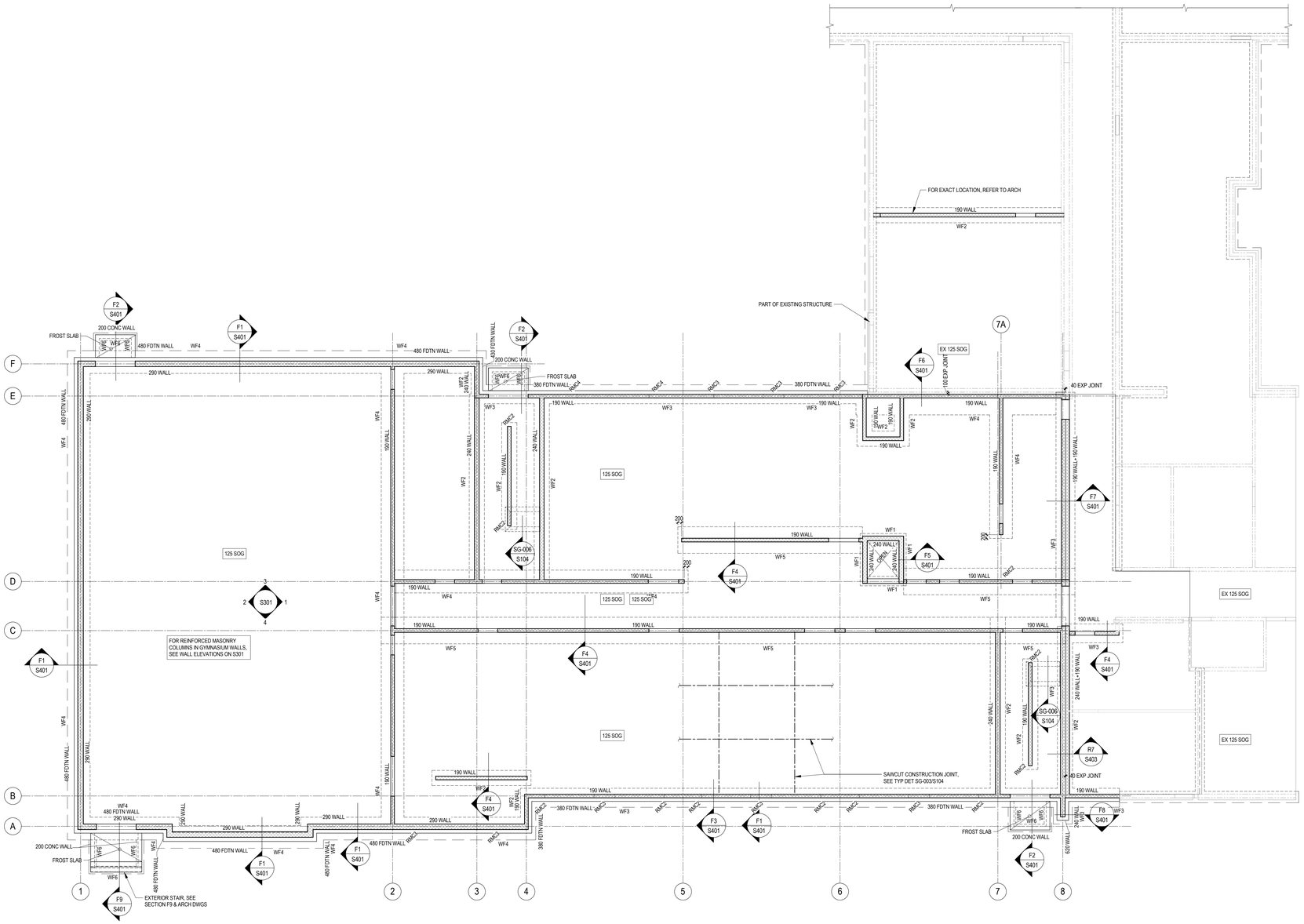

FOUNDATION & GROUND FLOOR PLAN

1 : 100

FOUNDATION PLAN NOTES

1. FINISHED GROUND FLOOR AT ELEVATION 351.88 m EXCEPT AS CROSSED AND NOTED. REFER TO ARCHITECTURAL DRAWINGS.
2. PLACE ALL INTERIOR WALL FOOTINGS MININUM 800mm AND ALL INTERIOR COLUMN FOOTINGS MININUM1000mm BELOW FLOOR FINISH ELEVATION, UNLESS OTHERWISE NOTED. PLACE ALL INTERIOR FOOTINGS MINIMUM 1200mm BELOW FLOOR FINISH ELEVATION IF THEY ARE CONSTRUCTED IN WINTER CONDITION. ALL BOTTOM OF EXTERIOR FOOTING AT ELEVATION MINIMUM 1200mm BELOW FINISH GRADE.
3. FOOTINGS WILL BE SUPPORTED ON ENGINEERING FILL :
   - SERVICEABILITY LIMIT STATES (SLS): 100 kPa
   - ULTIMATE LIMIT STATES (ULS): 150 kPa
4. FOOTING ELEVATIONS, AND BEARING VALUE OF SOIL UNDER FOOTINGS AND SLAB ON GRADE ARE BASED ON INFORMATION AVAILABLE AT THE TIME DRAWINGS ARE ISSUED. REFER TO GEOTECHNICAL INVESTIGATION PREPARED BY CHUNG & VANDER DOELEN ENGINEERING LTD. DATED JULY 02, 2025. REPORT ADJUSTMENTS NECESSARY DUE TO ACTUAL CONDITIONS TO THE CONSULTANT BEFORE PROCEEDING WITH THE WORK.
5. BEFORE PLACING SLAB ON GRADE VERIFY THAT BEARING CAPACITY OF SUBGRADE AND COMPACTION OF SUB-BASE ARE ADEQUATE TO SUPPORT 25 kPa UNIFORMLY DISTRIBUTED LOAD ON SLAB ON GRADE WITHOUT SIGNIFICANT DIFFERENTIAL SETTLEMENT BETWEEN SLAB AND BUILDING FOOTINGS.
6. ALL WALL FOOTINGS TO HAVE 150 mm PROJECTIONS AND TO BE 200 mm THICK, UNREINFORCED UNLESS NOTED OTHERWISE.
7. LOWER FOOTINGS BELOW ALL INCOMING SERVICES.
8. "SFU" DENOTES STEP FOOTING UP, "SFD" DENOTES STEP FOOTING DOWN. SEE TYPICAL DETAIL F-009/S101.
9. CENTRE ALL BASEPLATES, PIERS (CAPS) AND FOOTINGS UNDER COLUMNS UNLESS OTHERWISE NOTED ON PLANS.
10. CONCRETE PROPERTIES. SEE SCHEDULE OF CONCRETE PROPERTIES ON DRAWING S101.
11. SEE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR DEPRESSIONS IN SLAB ON GRADE. MAINTAIN SLAB THICKNESS SPECIFIED ON PLAN.
12. FOR SECTIONS AT FOUNDATION PLAN, SEE S401
13. SEE GENERAL NOTES AND TYPICAL DETAILS ON DRAWING S100.
14. BACKFILL AGAINST FOUNDATION WALLS SHALL BE PLACED SUCH THAT THE LEVEL OF BACKFILL ON THE ONE SIDE OF THE WALL IS NEVER MORE THAN 600mm ABOVE THE LEVEL ON THE OTHER SIDE OF THE WALL.

REINFORCED MASONRY COLUMN SCHEDULE (RMC)

MARK	DESCRIPTION	REINFORCEMENT	REMARKS
RMC1	190x390	2 - 15M VERT	
RMC2	190x690	3 - 20M VERT	
RMC3	190x790	4 - 25M VERT	
RMC4	240x390	(2) 2 - 15M VERT	15M TIES EVERY COURSE
RMC5	290x690	3 - 20M VERT	

RMC SCHEDULE NOTES

1. PROVIDE 3.660 GALV. WIRE TIES @ 200 C/C IN ALL REINFORCED MASONRY COLUMNS (RMC).
2. CONCRETE FILL ALL MASONRY CORES WITH REINFORCEMENT.
3. PROVIDE DOWELS IN FOUNDATION TO MATCH ALL MASONRY COLUMN REINFORCEMENT.
4. RMC REINFORCEMENT AND CONCRETE FILL TO BE CONTINUOUS FROM FOUNDATION TO UNDERSIDE OF SUPPORTED STRUCTURE.

WALL FOOTING SCHEDULE

MARK	WIDTH	DEPTH	REINFORCEMENT LONGITUDINAL	REINFORCEMENT TRANSVERSE
WF1	500	250	2-15M BARS	NONE
WF2	800	300	2-15M BARS	NONE
WF3	1000	300	3-15M BARS	15M@300 c/c
WF4	1200	300	3-15M BARS	15M@300 c/c
WF5	1400	400	5-15M BARS	15M@250 c/c
WF6	400	200	2-15M BARS	NONE

MASONRY WALL SCHEDULE

WIDTH	REINFORCEMENT VERTICAL	REINFORCEMENT HORIZONTAL	MASONRY UNIT	TYPE
240	20M @ 400	STANDARD (4.76mm) @400 WITH BOND BEAM EVERY 1200mm USING 2-15M	HOLLOW BLOCK TYP. A, 20MPa	FULLY GROUTED
190	15M @ 400	STANDARD (4.76mm) @400 WITH BOND BEAM EVERY 1200mm USING 2-15M	HOLLOW BLOCK TYP. A, 20MPa	PARTIALLY GROUTED
290	15M @ 400	STANDARD (4.76mm) @400 WITH BOND BEAM EVERY 1200mm USING 2-15M	HOLLOW BLOCK TYP. A, 20MPa	PARTIALLY GROUTED

MASONRY WALL REINFORCING-TYPICAL - (UNLESS NOTED OTHERWISE ON PLANS OR SECTIONS)

1. EXTERIOR WALLS:
   - 190 BACK UP WALL 15M VERTICAL REINFORCING AT 800c/c SET IN MIDDLE OF 190 WALL.
   - 240 BACK UP WALL 15M VERTICAL REINFORCING AT 600c/c SET IN MIDDLE OF 240 WALL.
   - 290 BACK UP WALL 15M VERTICAL REINFORCING AT 800c/c EACH FACE OF WALL.
2. INTERIOR WALLS:
   - 190 WALL 15M VERTICAL REINFORCING AT 1000 c/c SET IN MIDDLE OF 190 WALL.
   - 240 WALL 20M VERTICAL REINFORCING AT 1000 c/c SET IN MIDDLE OF 240 WALL.
   - 290 WALL 15M VERTICAL REINFORCING AT 1000 c/c EACH FACE OF WALL.
3. PROVIDE 1-15M VERTICAL EACH FACE OF BLOCK AT EACH SIDE OF ALL WALL OPENINGS AND BEAM BEARINGS FOR SPANS LARGER THAN 1200mm. TYPICAL FOR ALL EXTERIOR AND INTERIOR WALLS. (NOT REQUIRED IF PIER REINFORCING IS SPECIFIED ON PLANS AT THIS LOCATION).
4. PROVIDE HORIZONTAL MASONRY REINFORCING AS PER SPECIFICATION.
5. ALL BLOCK VOIDS WITH REINFORCING SHALL BE FILLED SOLID WITH 20MPa COURSE GROUT OR 20MPa CONCRETE WITH PEA GRAVEL.
6. MASONRY INDICATED ON PLAN AS "FILLED SOLID", SHALL BE FULLY FILLED WITH 20MPa COURSE GROUT OR 20MPa CONCRETE WITH PEA GRAVEL.
7. PROVIDE MINIMUM SPLICE 600mm FOR ALL VERTICAL REINFORCING.
8. MASONRY REQUIRED TO BE "FILLED SOLID", SHALL BE FILLED IN LOW LIFTS UNLESS APPROVED BY THE CONSULTANT.
9. CO-ORDINATE MASONRY REINFORCING PLACEMENT WITH LINTEL AND BEAM BEARINGS.
10. PROVIDE CONTINUOUS LINTEL BLOCK BAND COURSE WITH 2-15M CONT. BARS AT GROUND FLOOR LEVEL AND EACH SUBSEQUENT FRAMED LEVEL ABOVE.

CONCRETE PIER SCHEDULE

MARK	SIZE	REINFORCEMENT	TIES	REMARKS
P1	400 x 400	8-20M VERT	10M@300 DOUBLE STIRRUP ON TOP	

CONCRETE PIER SCHEDULE NOTES:

1. SEE C-015 FOR ARRANGEMENT OF REINFORCEMENT WITHIN CONCRETE PIERS.

BASE PLATE SCHEDULE

MARK	SIZE	ANCHOR RODS	DETAIL	REMARKS
BPL1	350x20x350	4-20ø3 (3/4") ANCHOR BOLTS (350 EMBED MIN)	50 TYP, 50 TYP	

BASE PLATE SCHEDULE NOTES

1. PROVIDE MINIMUM 50mm EDGE DISTANCE TO CENTRE OF ANCHOR BOLT U.N.O.
2. ANCHORAGE OF ALL "CFS" POSTS TO TOP OF FOUNDATION WALL TO BE DESIGNED BY SUPPLIER.
3. CENTRE BASEPLATES OVER CONCRETE PIERS (TYPICAL).

No.	Revision	Date
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For

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Dwg. Title

FOUNDATION & GROUND FLOOR PLAN

Date	Drawn By:	Dwg. No.
2026-04-22	TM	S201
Project No. ALL-25004504-A0	Checked By: AY/SZ	
Scale: As indicated	Rev. No. 3	

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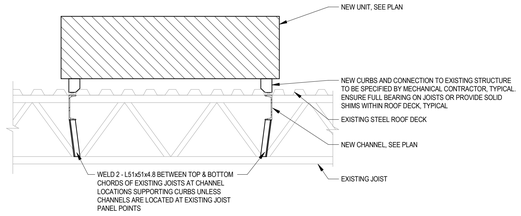
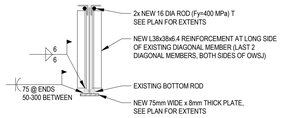


TYPICAL SUPPORT STEEL FOR NEW ROOF TOP UNITS

SCALE NTS

NOTE: APPLIES TO UNITS NOT SUPPORTED BY NEW BEAMS ABOVE ROOF.



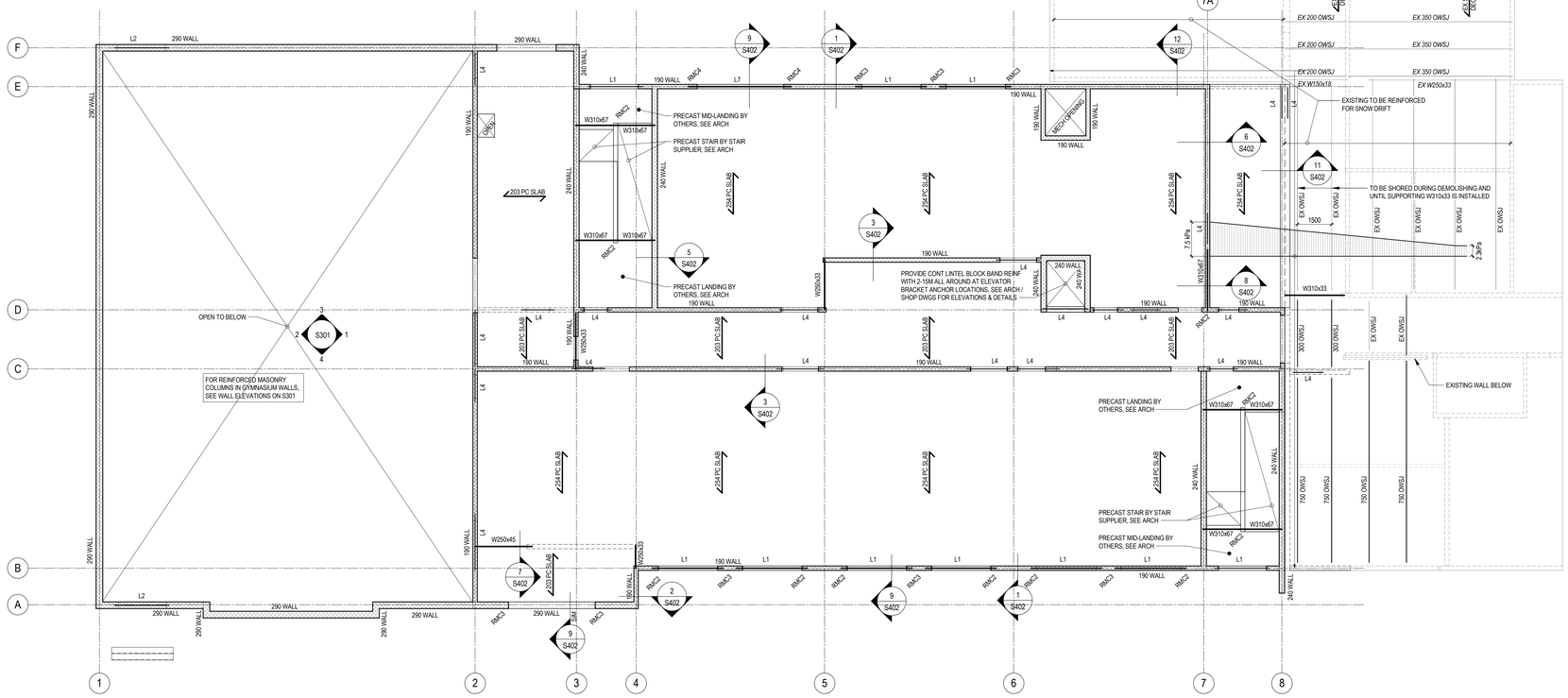
OWSJ REINFORCEMENT DETAIL

1 : 10

WELD MATERIAL : TO CSA W48 AND CSA W59, AND CERTIFIED BY THE CANADIAN WELDING BUREAU. E70 ELECTRODE.

Joist Reinforcing Notes

1. Contractor to be aware that existing joists are supporting mechanical pipes and ducts, electrical wiring, ceiling and fixtures and other non-structural elements.
2. It is the responsibility of the contractor during the tender process to be fully knowledgeable of the site condition and interferences with the joist reinforcement.
3. Cost of all temporary works to support the items noted above to allow for installation of joist reinforcement are deemed to have been included in the contract price.
4. Make good existing construction and reinstall all elements to its original connection points after completion of the work.
5. Existing steel grade is assumed to be Fy=36 ksi.
6. Refer to additional notes GN-013.



LEVEL 2 FLOOR FRAMING PLAN

1 : 100

3	ISSUED FOR TENDER	2026-04-22
2	ISSUED FOR BUILDING PERMIT	2026-01-29
1	ISSUED FOR COSTING	2025-09-09
No.	Revision	Date

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SECOND FLOOR NOTES

1. TOP OF PRECAST SLABS IS 50mm BELOW FINISHED FLOOR EXCEPT AS CROSSED AND NOTED.
2. TOP OF STEEL BEAMS IS 300mm BELOW FINISHED FLOOR EXCEPT AS OTHERWISE SHOWN ON PLAN OR SECTION.
3. PROVIDE 50mm BONDED CONCRETE TOPPING OVER PRECAST CONCRETE SLABS. SAWCUT TOPPING OVER ABUTTING END JOINTS IN SLABS AND AT 5m c/c MAXIMUM PARALLEL WITH SLAB SPAN. SAWCUTS TO BE 3mm x 25mm DEEP. TOPPING SHALL BE USED AS SUPERIMPOSED LOAD FOR PRECAST SLAB DESIGN. TOPPING SHALL NOT BE USED TO INCREASE PRECAST SLAB CAPACITY.
4. LOADING FOR PRECAST SLABS (SPECIFIED LOAD).

   CLASSROOMS AND MEETING ROOMS: SUPERIMPOSED DEAD LOAD:
   - PARTITIONS 1.0 kN/m²
   - TOPPING 1.2 kN/m²
   - MECH & CEILING 0.5 kN/m²
   - FLOOR FINISH 0.2 kN/m²

   LIVE LOAD 2.4 kN/m²

   ASSEMBLY AREAS - (CORRIDORS, STAIRS, LOBBIES) AND STORAGE AREA:
   SUPERIMPOSED DEAD LOAD:
   - TOPPING 1.20 kN/m²
   - MECH & CEILING 0.75 kN/m²
   - FLOOR FINISH 0.2 kN/m²

   LIVE LOAD 4.8 kN/m²

   SNOW LOAD = 2.3 kPa PLUS ACCUMULATED SNOW LOAD NOTED ON PLAN

   FOR ADDITIONAL LOADS REFER TO PLAN.
5. UNLESS NOTED OTHERWISE PROVIDE 170 x 12 x 200 BEARING PLATES EACH END OF ALL STEEL BEAMS. ALL BEARING PLATES SHALL BE WITH 2-19 DIA WELDED ANCHORS x 250 LONG. WELD BEAMS TO BEARING PLATES.
6. SEE ALSO TYPICAL DETAILS AND GENERAL NOTES.
7. PRECAST SUPPLIER SHALL PROVIDE ALL HANGERS REQUIRED TO SUPPORT CUT SLAB ON ADJOINING SLABS. TYPICAL.
8. PROVIDE AT LEAST 2 SOLID OR GROUTED BLOCK COURSES UNDER PRECAST SLAB BEARING, ALL BEARING PLATES AND CONCRETE PADS. REFER TO TYPICAL DETAIL SHEET.
9. BLOCK VOIDS WITH REINFORCING OR MASONRY CALLED AS "FILLED SOLID" SHALL BE FILLED SOLID WITH 20MPa CONCRETE WITH PEA GRAVEL OR COARSE GROUT.
10. FOR MECHANICAL LOUVERS OPENING WITH MAXIMUM SIZE OF 750mm, A MASONRY LINTEL SHALL BE USED WITH 1-15M T&B WITH 10M@200 STIRRUP ONE LEG UNLESS OTHERWISE MENTIONED

BEARING PLATE SCHEDULE

MARK	SIZE	ANCHOR	REMARKS
BP1	180x20x300	1	TYPICAL AT ALL STRUCTURAL MEMBER BEARING ON 190 MASONRY WALL UNLESS OTHERWISE NOTED ON PLANS.
BP2	220x20x400	1	TYPICAL AT ALL STRUCTURAL MEMBER BEARING ON 240 MASONRY WALL UNLESS OTHERWISE NOTED ON PLANS.

BEARING PLATE NOTES

1. STRAP ANCHORS TO BE 38 x 6 x 300LG. WELDED TO U/S OF BEARING PLATE.
2. UNLESS NOTED OTHERWISE ALL STRUCTURAL SHAPES INCLUDING OWSJ SHALL BEAR ON BP1.
3. FILL MINIMUM (3) MASONRY COURSES SOLID WITH CONCRETE FILL UNDER ALL BASE PLATES.
4. BEAM BEARING LENGTH TO MATCH CORRESPONDING BASE PLATE DIMENSIONS UNLESS NOTED.
5. FIELD WELD ALL STRUCTURAL SHAPES TO BEARING PLATES WITH MINIMUM (2) - 6 x 38 LONG FILLET WELDS EACH SIDE.
6. CONCRETE FILL ALL BEAM BEARING AREA WALL VOIDS AFTER INSTALLATION OF BEAM.

FLOOR LINTEL SCHEDULE

MARK	MATERIAL	TYPE	REMARKS
L1	W250x45 + CONT 190x6 PLATE + CONT 195x100x10 BENT PL LLH w/ 6mm STIFF @600 c/c	190 / 85	PROVIDE TYP BPL OR CONNECT TO COLUMN. PROVIDE 15M WELDED DOWELS AT 400 c/c. PROVIDE 6mm BEAM WEB STIFF @600 c/c. CARRY EXTERIOR PLATE 150mm INTO VENEER, CONNECT LINTEL TO COLUMN
L2	W250x67 + 290x6 PLATE BOTTOM + CONT 195x100x10 BENT PL LLH w/ 6mm STIFF @600 c/c	290 / 85	PROVIDE TYP BPL OR CONNECT TO COLUMN. PROVIDE 15M WELDED DOWELS AT 400 c/c. PROVIDE 6mm BEAM WEB STIFF @600 c/c. CARRY EXTERIOR PLATE 150mm INTO VENEER, CONNECT LINTEL TO COLUMN
L3	2L 127x89x9.5 LLV (190 & 240 WALL) 2L 127x127x9.5 LLV (290 WALL) + 195x100x10 BENT PL LLH w/ 6mm STIFF @600 c/c	190, 240 or 290 / 85	CARRY ANGLES & EXTERIOR PLATE MIN 150mm INTO SUPPORT. PROVIDE 6mm STIFF BETWEEN ANGLES AND BENT PLATE AT 600 c/c
L4	W250x33 + CONT 190x6 PLATE BOTTOM	190	PROVIDE TYP BPL OR CONNECT TO COLUMN. PROVIDE 15M WELDED DOWELS AT 400 c/c.
L5	W250x45 + CONT 240x6 PLATE BOTTOM	240	PROVIDE TYP BPL OR CONNECT TO COLUMN. PROVIDE 15M WELDED DOWELS AT 400 c/c.
L6	W250x45 + 240x6 PLATE BOTTOM + 195x100x10 BENT PL LLH w/ 6mm STIFF @600 c/c	240 / 85	PROVIDE TYP BPL OR CONNECT TO COLUMN. PROVIDE 15M WELDED DOWELS AT 400 c/c. PROVIDE 6mm BEAM WEB STIFF @600 c/c. CARRY EXTERIOR PLATE 150mm INTO VENEER, CONNECT LINTEL TO COLUMN
L7	W410x85 + CONT 190x6 PLATE BOTTOM + 195x100x10 BENT PL LLH w/ 6mm STIFF @600 c/c	190 / 85	PROVIDE TYP BPL OR CONNECT TO COLUMN. PROVIDE 15M WELDED DOWELS AT 400 c/c. PROVIDE 6mm BEAM WEB STIFF @600 c/c. CARRY EXTERIOR PLATE 150mm INTO VENEER, CONNECT LINTEL TO COLUMN

LINTEL NOTES

1. RCML DENOTES REINFORCED CONCRETE MASONRY LINTEL
2. ALL BACK TO BACK ANGLES OR SECTIONS TO BE STITCH WELDED TOP AND BOTTOM AT MINIMUM. 200 c/c SPACING.
3. ALL STEEL LINTELS IN EXTERIOR BLOCK WALLS TO BE HOT-DIPPED GALVANIZED.
4. MINIMUM. LINTEL BEARING LENGTH EQUALS 200 U/N ON 3 COURSES OF SOLID FILLED MASONRY.
5. SEE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR ALL LINTEL SPANS (FIELD CHECK ALL LINTEL SPANS PRIOR TO FABRICATION).
6. SEE ARCHITECTURAL DWGS FOR ANY ADDITIONAL LINTEL OPENINGS NOT SHOWN ON STRUCTURAL DWGS.
7. SEE STRUCTURAL NOTES, THIS DRAWING.
8. MECHANICAL OPENING LINTEL. SEE MECHANICAL DRAWINGS FOR ALL MECHANICAL OPENINGSNOT SHOWN ON STRUCTURAL DRAWINGS. PROVIDE LINTELS AS PER MECHANICAL LINTEL SCHEDULE AT MECHANICAL OPENINGS NOT SHOWN ON STRUCTURAL DRAWINGS.
9. CONC. BLOCK LINTELS TO BE FILLED WITH 20MPa GROUT.
10. MASONRY CONTRACTOR TO ATTACH BENT PLATE ANGLES TO CONCRETE BLOCK WHYTHE PRIOR TO VAPOUR BARRIER AND INSULATION INSTALLATION VIA 120 HILTI KWIK BOLT EXPANSION ANCHORS AT MAX. 600 C/C SPACING INSERTED INTO SOLID CONCRETE. SOLID FILLED MASONRY CORES OR HOLLOW MASONRY WEB ONLY WITH MINIMUM 50MM EMBEDMENT DEPTH.

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Project Title

St Paul Addition & Reno

45 Birchcliff Ave, Kitchener, ON N2M 4V7

For

WCDSB

Dwg. Title

SECOND FLOOR FRAMING PLAN

Date: 2026-04-22	Drawn By: TM	Dwg. No.
Project No.: ALL-25004504-A0	Checked By: AY/SZ	**S202**
Scale: As indicated	Rev. No.: 3	

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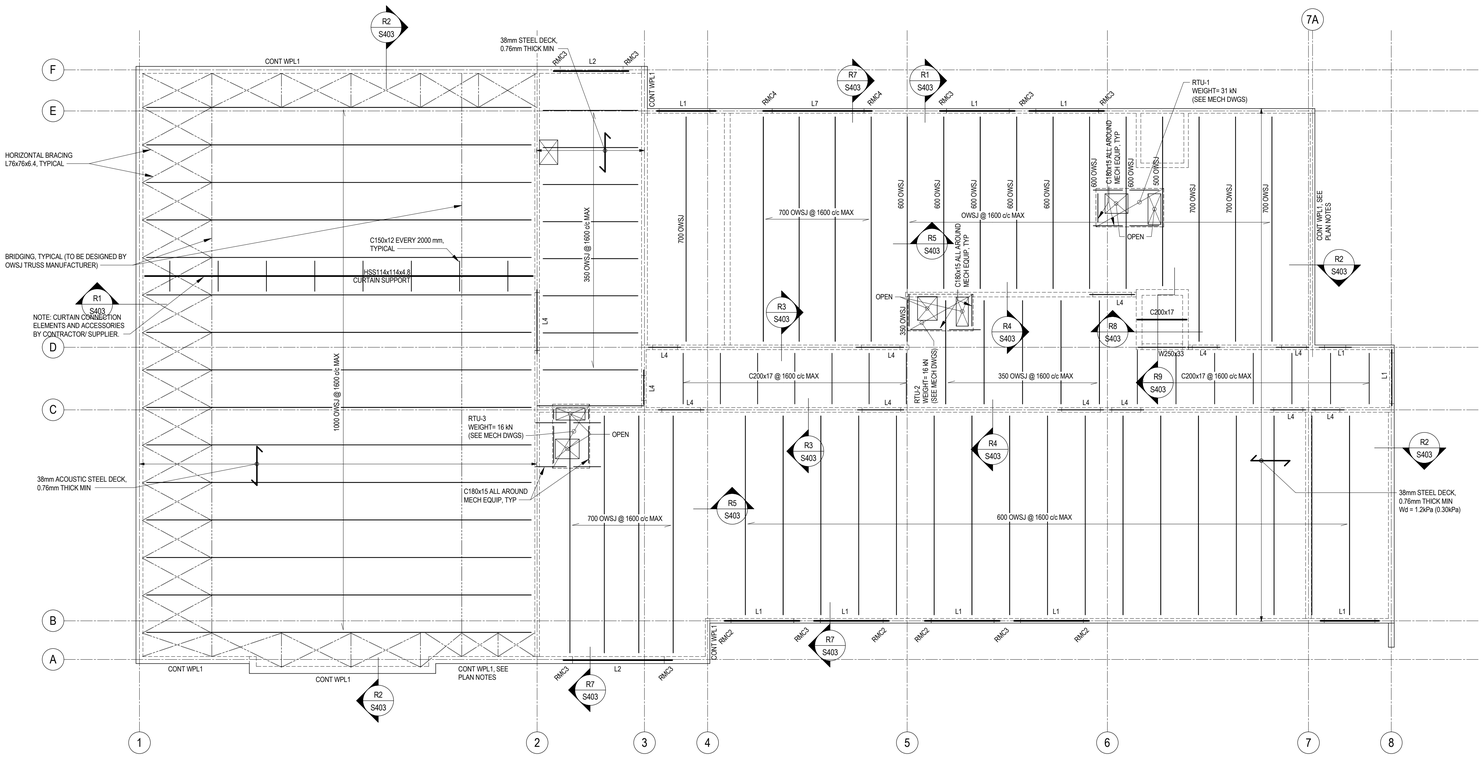
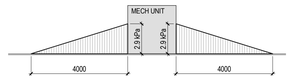


ROOF FRAMING PLAN

1 : 100



TYPICAL SNOW ACCUMULATION
AROUND MECHANICAL UNIT.

ROOF FRAMING PLAN NOTES

1. TOP OF STEEL AND ELEVATIONS: SEE ARCHITECTURAL DRAWINGS:
2. TOP OF BEAMS SUPPORTING OWSJ 100 mm BELOW METAL DECK BASED ON 100 mm DEEP JOIST SHOE.
3. LOADING:
   SUPERIMPOSED DEAD LOAD
   ROOFING = 0.7 kPa
   ROOFTOP EQUIPMENT = SEE PLAN
   CEILING + MECH/ELECT ALLOWANCE = 0.5 kPa

   LIVE LOAD = 1.0 kPa
   SNOW LOAD = 2.3 kPa PLUS ACCUMULATED SNOW LOAD NOTED ON PLAN
   RAIN LOAD = 1.3 kPa

   LIVE LOAD, SNOW LOADS AND RAIN LOAD NEED NOT BE CONSIDERED SIMULTANEOUSLY
4. "Wd" FOR ROOF DECK DENOTES SUPERIMPOSED DEAD LOAD IN kPa. DESIGN DECK FOR Wd, LIVE LOAD, SNOW LOADS, RAIN LOAD, CONCENTRATED LOAD REQUIRED BY OBC AND WIND UPLIFT GIVEN IN SPECIFICATIONS. DEAD LOAD FOR UPLIFT CALCULATION IS SHOWN IN PARENTHESES.
5. PIPES, DUCTWORK, ELECTRICAL CABLES, CEILING ETC. SHALL NOT BE HUNG FROM FLOOR ROOF DECK. ALL HANGERS SHALL BE HUNG FROM THE TOP CHORD OF JOISTS OR BEAMS.
6. "Wd" FOR OWSJ DENOTES SUPERIMPOSED DEAD LOAD IN kPa. DESIGN OWSJ FOR Wd, JOIST SELF WEIGHT, WEIGHT OF EQUIPMENT SHOWN ON PLAN, LIVE LOAD, SNOW LOADS, RAIN LOAD AND WIND UPLIFT GIVEN IN SPECIFICATIONS. DEAD LOAD FOR UPLIFT CALCULATIONS IS SHOWN IN PARENTHESES.
7. STEEL DECK IS DESIGNED TO ACT AS A DIAPHRAGM.
8. ➤ DENOTES FULL MOMENT CONNECTION.
9. SEE GENERAL NOTES AND TYPICAL DETAILS ON DRAWING S100.
10. WPL1 - 75x6 CONTINUOUS STEEL PLATE WITH 12a x200 LONG STUDS AT 800c/c SET IN BLOCK VOIDS FILLED WITH 20MPa CONCRETE.
11. UNLESS NOTED OTHERWISE, PROVIDE 170x12x200 BEARING PLATES EACH END OF ALL STEEL BEAMS. ALL BEARING PLATES SHALL BE WITH 2-19ø WELDED ANCHORS x250 LONG WELD BEAM TO BEARING PLATES TYPICAL. BEARING PLATES FOR OWSJ SHALL BE DESIGNED BY JOIST SUPPLIER.
12. BLOCK VOIDS WITH REINFORCING OR SHOWN AS "FILLED SOLID" SHALL BE FILLED WITH 20MPa CONCRETE WITH PEA GRAVEL OR 20MPa COARSE GROUT.
13. PROVIDE 38x4x150 MASONRY TIES WELDED TO BEAM WEB AT 600c/c FOR BEAMS DEEPER THAN 200mm, BUILT IN WALLS.
14. All MECHANICAL OPENINGS AND DUCTS SHALL BE COORDINATED BY MECHANICAL TO AVOID CLASHING WITH STRUCTURAL TRUSSES, OWSJs, AND STEEL BEAMS

No.	Revision	Date
3	ISSUED FOR TENDER	2026-04-22
2	ISSUED FOR BUILDING PERMIT	2026-01-29
1	ISSUED FOR COSTING	2025-09-09

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Project Title

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For

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Dwg. Title

ROOF FRAMING PLANS

Date	Drawn By:	Dwg. No.
2026-04-22	TM	S203
Project No. ALL-25004504-A0	Checked By: AY/SZ	
Scaile As indicated	Rev. No. 3	

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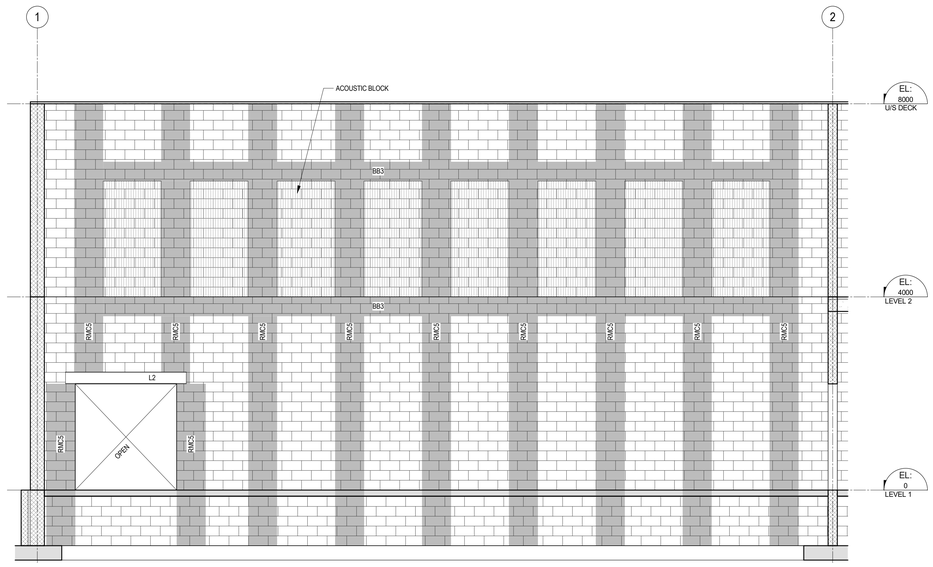
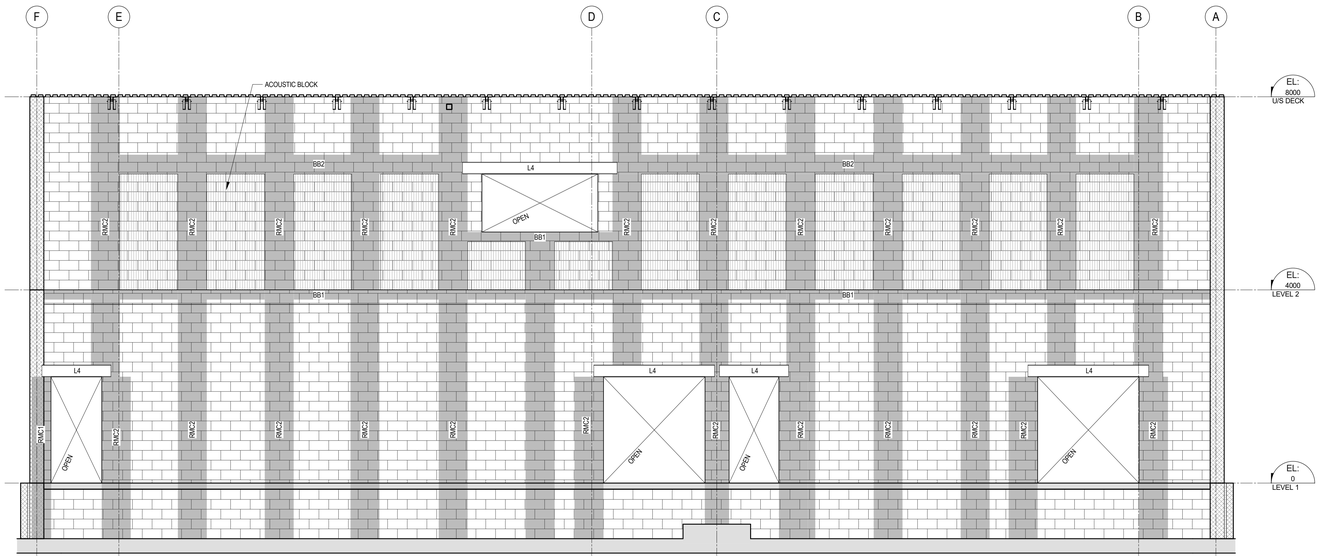


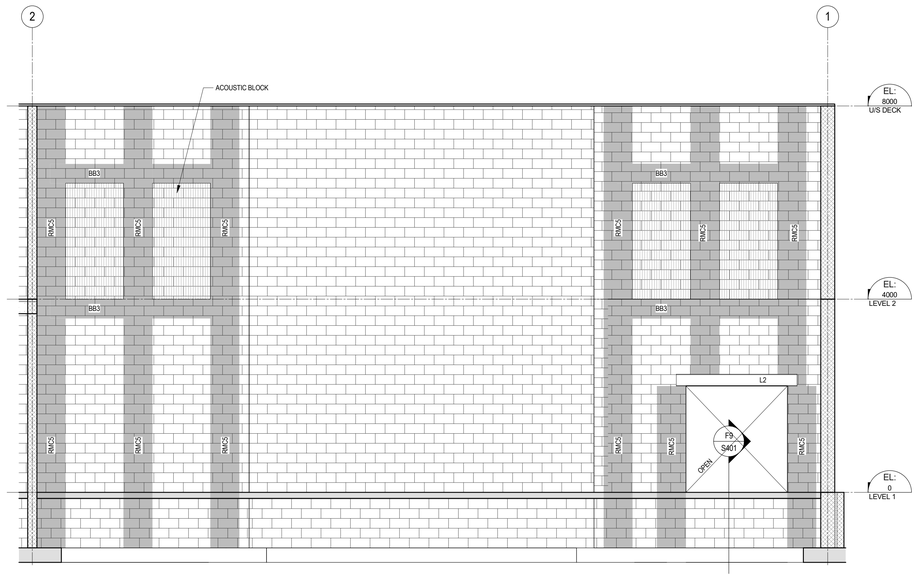
3 S301 **NORTH WALL ELEVATION**
1 : 50



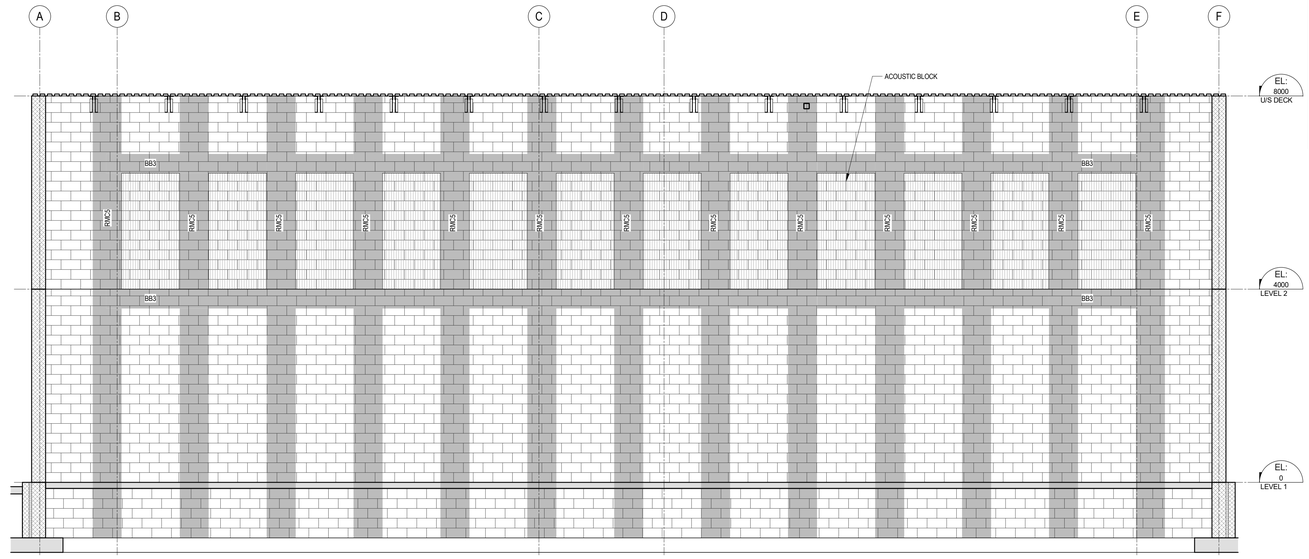
1 S301 **EAST WALL ELEVATION**
1 : 50

BOND BEAM SCHEDULE		
MARK	SIZE	REINFORCEMENT
BB1	190x190	2-15M T&B, 10M@250 STIRRUPS
BB2	190x390	2-20M T&B, 15M@250 STIRRUPS
BB3	290x390	2-25M T&B, 15M@250 STIRRUPS

NOTE: FOR REINFORCED MASONRY COLUMN (RMC) SCHEDULE, SEE S201



4 S301 **SOUTH WALL ELEVATION**
1 : 50



2 S301 **WEST WALL ELEVATION**
1 : 50

No.	Revision	Date
3	ISSUED FOR TENDER	2026-04-22
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Project Title

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Dwg. Title

GYMNASIUM WALL ELEVATIONS

Date 2026-04-22	Drawn By: TM	Dwg. No. **S301**
Project No. ALL-25004504-A0	Checked By: AY/SZ	
Scale 1 : 50	Rev. No. 3	

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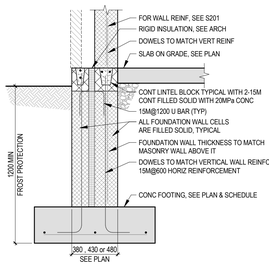
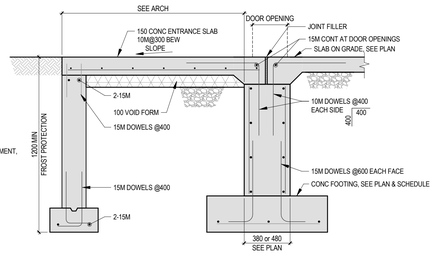


TYPICAL EXTERIOR FOUNDATION SECTION

F1 S401 **SECTION** 1 : 20



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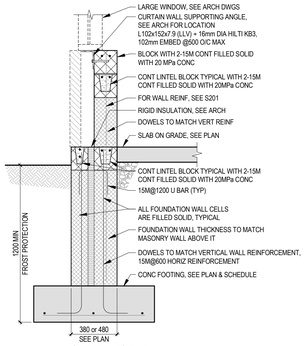
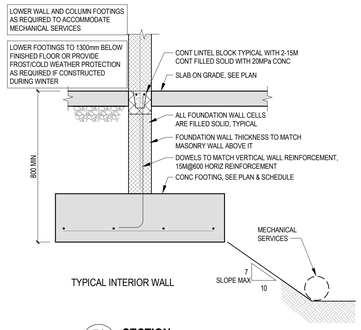


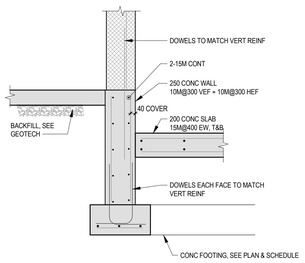
TYPICAL EXTERIOR WALL AT LARGE WINDOW

F3 S401 **SECTION** 1 : 20



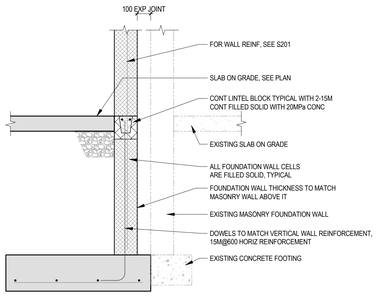
TYPICAL INTERIOR WALL

F4 S401 **SECTION** 1 : 20



ELEVATOR SHAFT, TYPICAL

F5 S401 **SECTION** 1 : 20



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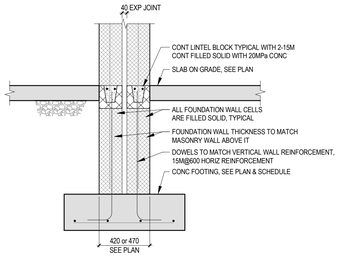

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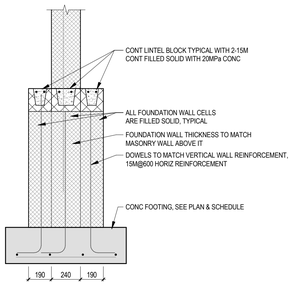

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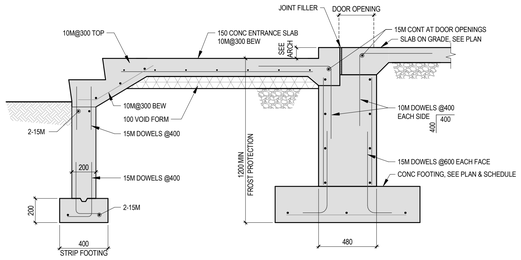

F9 S401 **SECTION** 1 : 20

No.	Revision	Date
3	ISSUED FOR TENDER	2026-04-22
2	ISSUED FOR BUILDING PERMIT	2026-01-29
1	ISSUED FOR COSTING	2025-09-09

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For

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Dwg. Title

FOUNDATION SECTIONS

Date	Drawn By:	Dwg. No.
2026-04-22	TM	S401
Project No. ALL-25004504-A0	Checked By: AY/SZ	
Scale 1 : 20	Rev. No. 3	

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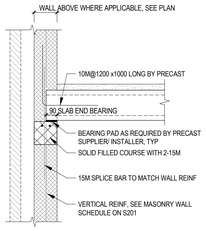
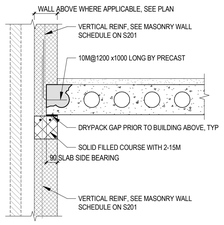


1 **SECTION**
S402 1 : 20



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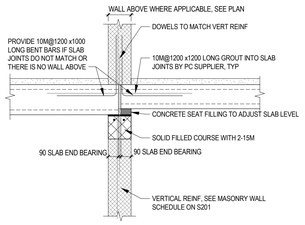
S402 1 : 20



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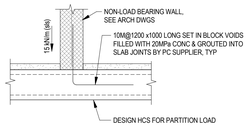

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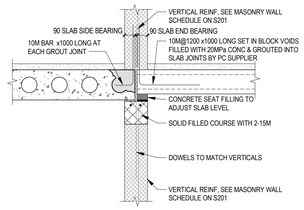

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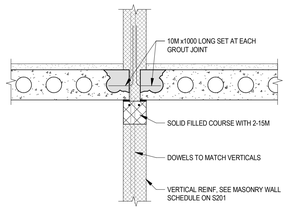

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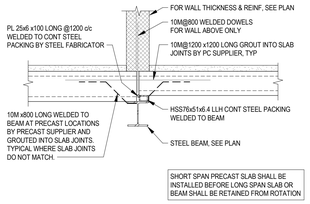
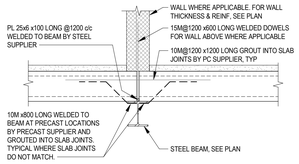


7 **SECTION**
S402 1 : 20



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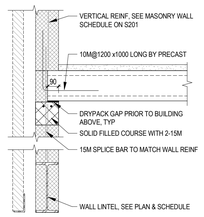
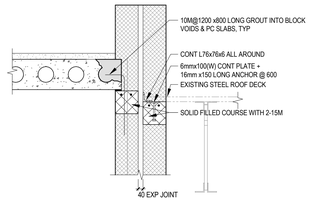
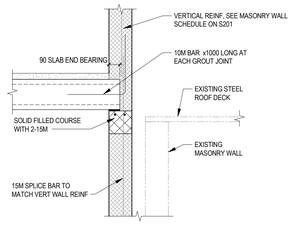
S402 1 : 20



9 **SECTION**
S402 1 : 20



11 **SECTION**
S402 1 : 20



12 **SECTION**
S402 1 : 20

No.	Revision	Date
3	ISSUED FOR TENDER	2026-04-22
2	ISSUED FOR BUILDING PERMIT	2026-01-29
1	ISSUED FOR COSTING	2025-09-09

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For

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Dwg. Title

SECOND FLOOR SECTIONS

Date	Drawn By:	Dwg. No.
2026-04-22	TM	S402
Project No. ALL-25004504-A0	Checked By: AY/SZ	
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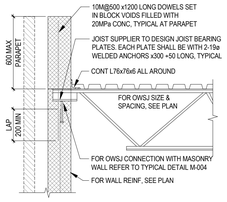
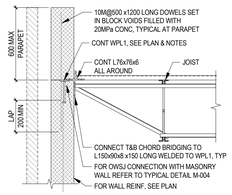
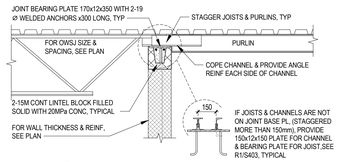


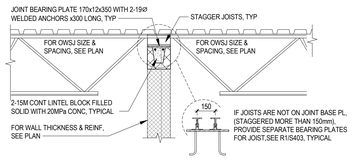
R1 S403 **SECTION**
1 : 20



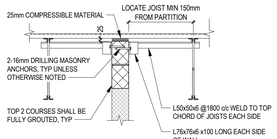
R2 S403 **SECTION**
1 : 20



R3 S403 **SECTION**
1 : 20

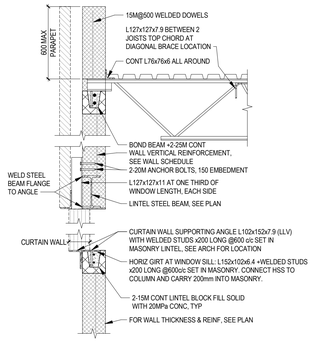


R4 S403 **SECTION**
1 : 20

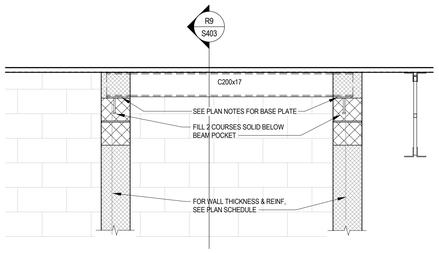


DETAIL FOR LATERAL SUPPORT OF NON-LOAD BEARING PARTITIONS TYPICAL THROUGHOUT

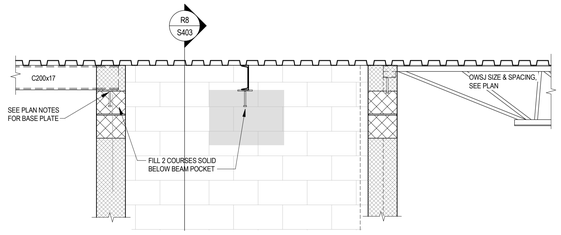
R5 S403 **SECTION**
1 : 20



R7 S403 **SECTION**
1 : 20



R8 S403 **SECTION**
1 : 20



R9 S403 **SECTION**
1 : 20

No.	Revision	Date
3	ISSUED FOR TENDER	2026-04-22
2	ISSUED FOR BUILDING PERMIT	2026-01-29
1	ISSUED FOR COSTING	2025-09-09

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Project Title

St Paul Addition & Reno

45 Birchcliff Ave, Kitchener, ON N2M 4V7

For

WCDSB

Dwg. Title

ROOF SECTIONS

Date	Drawn By:	Dwg. No.
2026-04-22	TM	**S403**
Project No. ALL-25004504-A0	Checked By: AY/SZ	
Scale 1 : 20	Rev. No. 3	

4/22/2026 1:55:00 PM