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## GENERAL NOTES

- 1. CHECK ALL DIMENSIONS ON THESE DRAWINGS WITH ALL OTHER DRAWINGS, INCLUDING BUT NOT LIMITED TO DRAWINGS PREPARED ARCHITECTURAL, MECHANICAL OR ELECTRICAL CONSULTANTS. REPORT ANY INCONSISTENCIES TO THE ENGINEER PRIOR TO COMMENCING WITH THE WORK. DO NOT SCALE THE
- 2. THE DESIGN LIVE LOADS ARE INDICATED ON THE DRAWINGS. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN LOADS.
- 3. THE COMPLETED STRUCTURE IS SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY BRACING, SHORING AND ANY OTHER TEMPORARY OR PERMANENT MEASURES AS REQUIRED DURING CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY SUPPORT OF EXISTING OR ADJACENT STRUCTURES AS REQUIRED. ALL BRACING AND SHORING IS THE RESPONSIBILITY OF THE CONTRACTOR.
- 4. CONSTRUCTION FEATURES NOT FULLY SHOWN ARE COMPARABLE TO SIMILAR CONDITION DETAILS.
- 5. ALL CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE LATEST ONTARIO BUILDING CODE, LATEST APPLICABLE REGULATIONS AND GOOD CONSTRUCTION PRACTICES.
- 6. THE STRUCTURAL DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL OTHER CONTRACT DRAWINGS AND SPECIFICATIONS.
- 7. CLARIFY ANY QUERIES WITH THE ENGINEER REGARDING THE INTERPRETATION OF THE DRAWINGS, PRIOR TO THE COMMENCEMENT OF ANY WORK.

## STRUCTURAL STEEL NOTES

- 1. ALL STRUCTURAL STEEL ELEMENTS, INCLUDING DESIGN OF ELEMENTS AND CONNECTIONS SHALL BE IN ACCORDANCE WITH CAN/CSA S16.
- 2. ALL STRUCTURAL STEEL SHALL CONFORM TO CSA G40.21 (300W) EXCEPT W SECTIONS AND PLATES G40.21 (350W), HSS MEMBERS G40.21 (350W) CLASS C OR ASTM A500 GRADE C, ANCHOR BOLTS ASTM A307, COLD FORM SECTIONS ASTM A570M GRADE 350W. UNLESS OTHERWISE NOTED, ALL SECTIONS SHALL BE PRIME PAINTED WITH THE SURFACE PREPARATION AND PAINTING PROCEDURES IN ACCORDANCE WITH CAN/CGSB 85.10.
- 3. ALL WELDING SHALL BE CARRIED OUT IN ACCORDANCE WITH CAN/CSA W59. THE STEEL FABRICATOR SHALL BE FULLY QUALIFIED UNDER THE REQUIREMENTS BY THE CANADIAN WELDING BUREAU IN CONFORMANCE WITH CAN/CSA W47.1.
- 4. ERECT STRUCTURAL STEEL IN ACCORDANCE WITH CSA S16 AND IN CONFORMANCE WITH THE APPROVED SHOP DRAWINGS.

# LOADING SUMMARY

DESIGN STANDARDS

- ONTARIO BUILDING CODE, 2012, PART 4: STRUCTURAL DESIGN - CAN/CSA-S16-14, LIMIT STATES DESIGN OF STEEL STRUCTURES - CAN/CSA-086-14, ENGINEERING DESIGN IN WOOD

#### SNOW, ICE AND RAIN LOADS

- APPLIED PER OBC. PART 4, SECTION 4.1.6 - IMPORTANCE FACTOR, Is
- GROUND SNOW LOAD, Ss - ASSOCIATED RAIN LOAD, Sr.
- WIND EXPOSURE FACTOR, Cw,
- ROOF SNOW LOAD, S, 1.84 kPa (38.4 PSF) - DRIFT LOADS PER CLAUSE 4.1.6.2.8
- SLOPE FACTORS PER CLAUSE 4.1.6.2.(5) TO (7) <u>wind loads</u>
- IMPORTANCE FÁCTOR, IW 0.75 (SLS) 1.00 (ULS)
   REFERENCE VELOCITY PRESSURE FOR STRUCTURAL MEMBERS
- 0.46 kPa 1/50 YEAR PROBABILITY (9.6 PSF)

   REFERENCE VELOCITY PRESSURE FOR CLADDING & NON—STRUCTURAL MEMBERS (7.5 PSF) 0.36 kPa 1/10 YEAR PROBABILITY - GUST FACTORS Cg
  - 2.0 FOR WHOLE & MAIN STRUCTURAL MEMBERS 2.5 FOR SMALL ELEMENTS INCLUDING CLADDING
- FOR INTERNAL PRESSURES - BUILDING INTERNAL PRESSURE CATEGORY <u>2</u> PER NBC 2010 STRUCTURAL COMMENTARY (PART B), COMMENTARY B.

### SEISMIC LOADS

- IMPORTANCE FACTOR, IE Sa(0.2) 0.260 Sa(0.5) 0.128

SOIL CLASS C (ASSUMED) 1.00

### SEISMIC SWAY BRACING

ARTICLE 4.1.8.18(2) OF THE ONTARIO BUILDING CODE NOTES THAT IF THE PRODUCT OF IE \* Fa \* Sa(0.2) IS LESS THAN 0.35, THE REQUIREMENTS NOTED ABOVE NEED NOT APPLY. THÉSE VALUES ARE EXPLORED BELOW. THIS EXEMPTION IS NOT APPLICABLE TO POST-DISASTER BUILDINGS.

BASED ON THE ABOVE NOTED VALUES, THE PRODUCT OF Ie \* Fa \* Sa(0.2) =1.3 \* 1.00 \* 0.26 = 0.338. GIVEN THIS IS LESS THAN THE THRESHOLD OF 0.35, THE APPLICATION OF THE LATERAL FORCE (Vp) TO ALL ELEMENTS AND COMPONENTS AND SWAY BRACING IS NOT REQUIRED.

DEAD: ROOFING

INSULATION RAPIDEX MECHANICAL & ELECTRICAL

0.25 kPa (5.2 psf) TOTAL 2.56 kPa (55.6 psf)

0.30 kPa (7.3 psf)

0.10 kPa (3.1 psf)

1.91 kPa (40.0 psf)

0.9 (SLS) 1.15 (ULS)

1.5 kPa (31.3 PSF)

0.4 kPa `(8.4 PSÉ)

USED 2.56 kPa (55.6 psf)

# NOTE:

- 1. INFILL EXISTING BLOCK AT ABANDONED DUCT OPENINGS.
- 2. PROVIDE SHORING AND BREAK OPEN EXISTING WALL, AND PROVIDE STEEL LINTEL AS PER TYPICAL LINTEL SCHEDULE AT ALL NEW DUCT OPENINGS. MAKE GOOD EXISTING BLOCK AS REQUIRED. REFER TO MECHANICAL DRAWINGS FOR LOCATIONS AND QUANTITIES.
- 3. INFILL EXISTING OPENINGS IN ROOF DECK AS REQUIRED, AS PER MECHANICAL
- DETAIL. NOT ALL LOCATIONS SHOWN ON PLAN.
- 4. PROVIDE FRAMING FOR ALL FLOOR & ROOF OPENINGS AS PER TYP. DETAIL. REFER
- TO MECHANICAL FOR LOCATIONS. 5. SHORING SHALL BE, BUT MAY NOT BE LIMITED TO, NEEDLE SHORING. CONTRACTOR TO PROVIDE TEMPORARY SHORING AS REQUIRED TO SUIT PROPOSED SCOPE OF

DRAWINGS REFERENCED USING INFORMATION FROM EX. DRAWINGS PREPARED BY: VICTOR P. PALA ARCHITECT DATED OCT. 7, 1968

EXISTING DRAWINGS LAYOUT PREPARED BY: HALL & MCINTYRE ARCHITECTS DATED OCT. 10, 1961

1	ISSUED FOR TENDER	2025-01-0	
0	ISSUED FOR PERMIT	2024-11-2	

Orientation



lhe Contractor shall check and verify all dimensions and repo all errors and omissions to the IO—Owner's/MBS Designee (as pplicable) for his/her written direction before proceeding with the Work.



Revisions

B Sheet No where detailed



300 YORK BLVD HAMILTON, ONTARIO L8R 3K6 905-333-9119 www.kaloseng.ca PROJECT NO. 24200



TOWBRIDGE CRESCENT HAMILTON, ON, CANADA .9G 5E1

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Ministry PSIF Number

Îlbrook elementary school SYM RENOVATION

SANITORIUM ROAD HAMILTION, ONTARIC

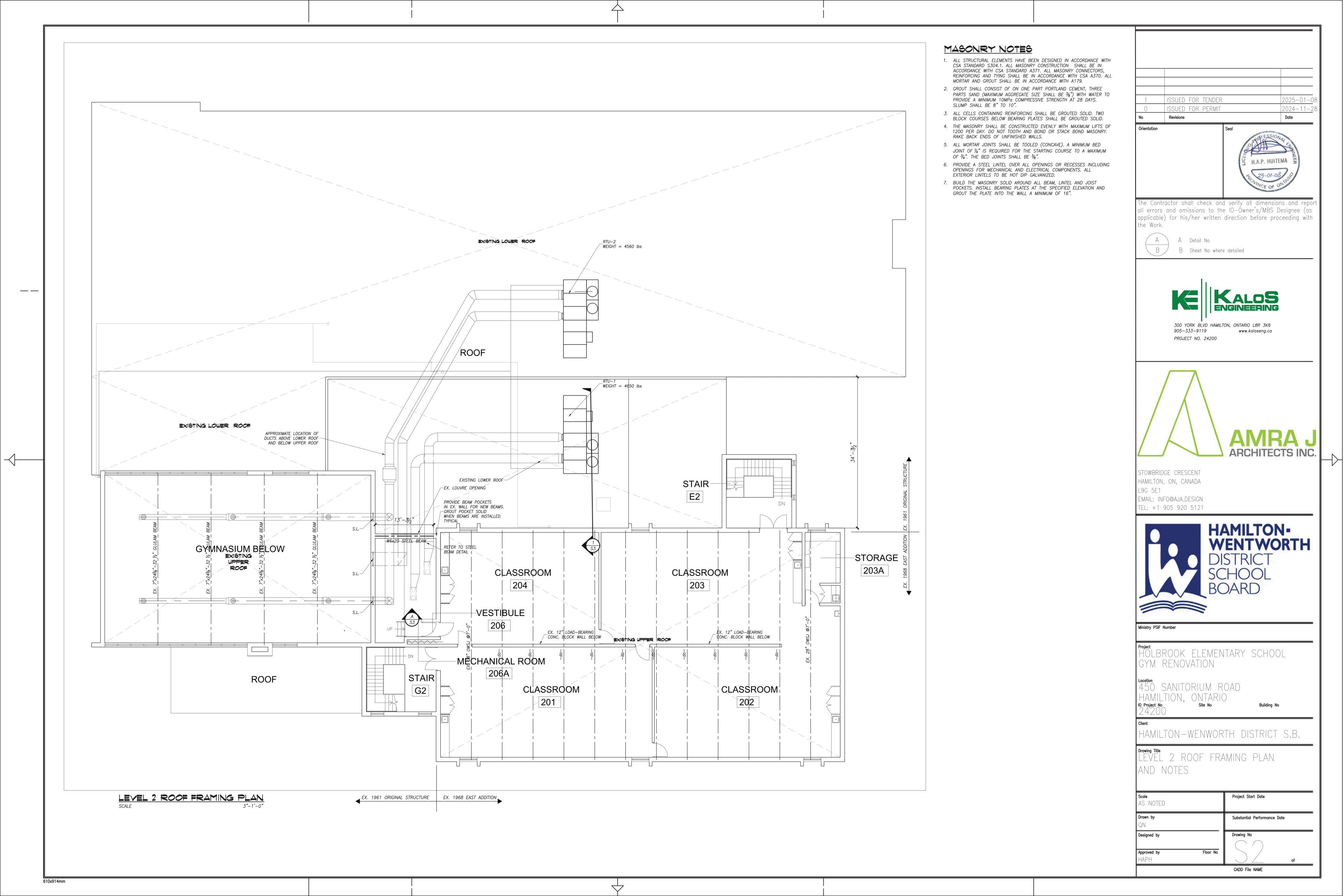
Building No

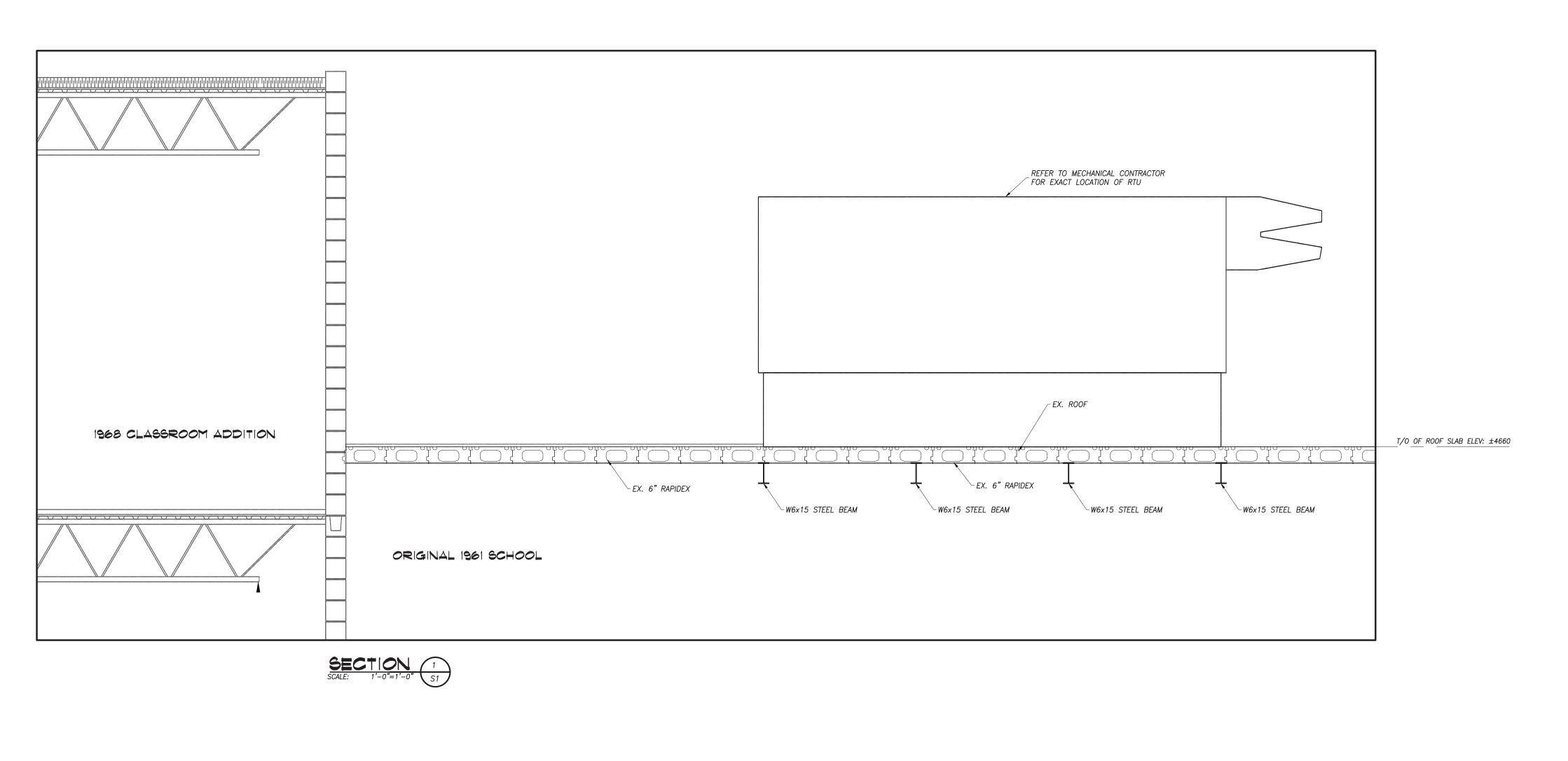
AMILTON-WENWORTH DISTRICT S.B

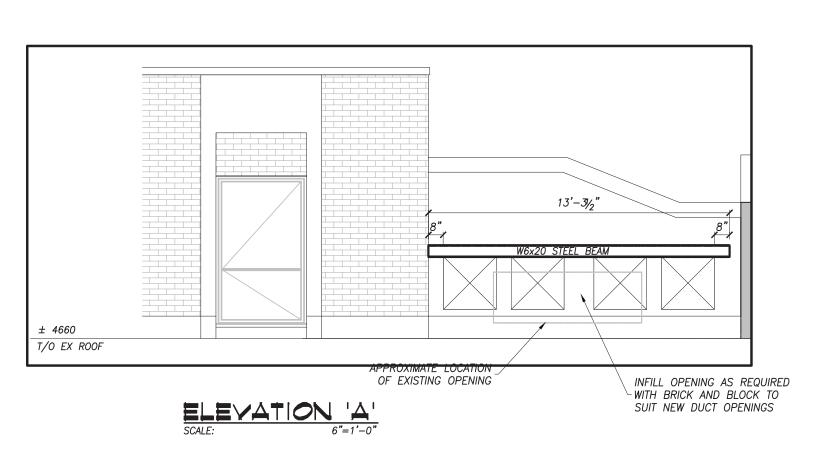
1 ROOF FRAMING PLAN AND NOTES

Scale AS NOTED	Project Start Date
<b>Drawn by</b> QN	Substantial Performance Date
Designed by	Drawing No
Approved by Floor No	of

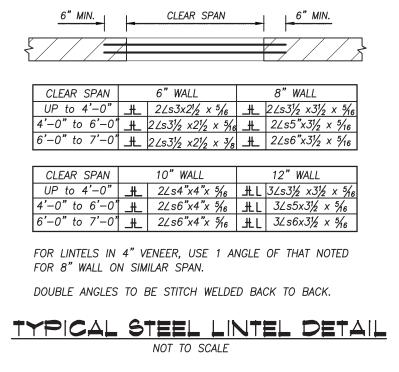
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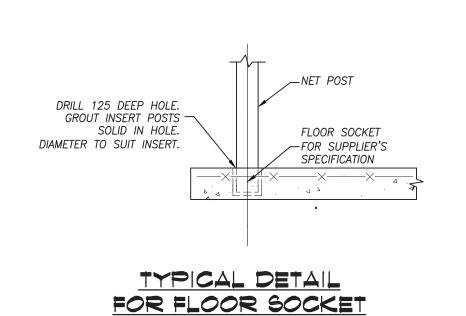




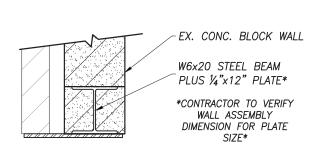


610x914mm





NOT TO SCALE



STEEL BEAM DETAIL

NOT TO SCALE

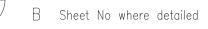
ISSUED FOR TENDER ISSUED FOR PERMIT 2024-11-Revisions

Orientation



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STOWBRIDGE CRESCENT HAMILTON, ON, CANADA L9G 5E1

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Ministry PSIF Number

HOLBROOK ELEMENTARY SCHOOL GYM RENOVATION

HAMILTION, ONTARIO IO Project No

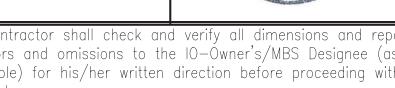
HAMILTON-WENWORTH DISTRICT S.B.

Drawing Title SECTION AND TYPICAL DETAILS

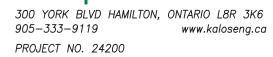
Scale AS NOTED	Project Start Date	
Drawn by	Substantial Performance Date	
Designed by	Drawing No	
Approved by Floor No	of	

CADD File NAME











EMAIL: INFO@AJA.DESIGN



450 SANITORIUM ROAD

Building No