

ADDENDUM #4

| Project | Nelson H.S. Renovations | Project No. | 2323 |
|----------|--------------------------------------|---------------|------------|
| Location | 4181 New Street, Burlington, Ontario | Date of Issue | 2024 06 04 |
| Owner | The Halton District School Board | File | 2323/7.1.3 |

This Addendum forms part of the Contract Documents and amends the original Drawings and Specifications, dated 2024 05 13, as noted below.

Ensure all parties submitting bids are aware of all items included in this Addendum. Read, interpret and coordinate the items contained herein with the Contract Documents and include all related costs as part of the Bid Price. Acknowledge receipt of this Addendum before submitting your bid.

This Consultant Addendum consists of 4 pages + noted attachments.

A4-1 DRAWINGS A207, A208, A209, A210, A211 & A212 PARTIAL RENOVATION PLANS (not issued)

- .1 Replace 'PW6' with 16mm GB-AR on 64mm Metal studs on existing on existing column up to u/s of existing retained beam cladding.
- .2 Replace Renovation Note no. 29 with 'SC01 To provide 2 hour fire resistance rating for new structural support angles, c-channels, structural beams supporting existing roof slabs at RTU-1, RTU-2, RTU-4 and RTU-5'

A4-2 DRAWING A213 ROOF PARTIAL RENOVATION PLAN (reissued)

- .1 Replace drawing with re-issued drawing
- .2 Add dimensions to existing gridlines

A4-3 MECHANICAL

.1 Refer to the attached Mechanical Addendum M-03 prepared by RDZ Engineering dated June 3, 2024

A4-4 BIDDER QUESTIONS

- <u>Q1</u> Is it possible to provide gridline dimensions on structural drawings. There are no dimensions on architectural or structural.
- A1 Refer to item A4-2 above
- <u>Q2</u> Will the building be occupied during required work or is it empty? Can all work be done during regular daytime hours?
- <u>A2</u> The Building is an operational high school. During summer vacation it will be for the most part vacant, but during the school year will be in operation. The school will make available areas for work during the school year for renovations in increments to be determined as conceptually shown on phasing plans. Work can be done during regular daytime hours during both summer and operational sessions. During the



school year reasonable cooperation will be required to allow school operations to continue.

Q3 – Key Plan on drawing S1 shows area 3/S2 however there is no detail 3 on S2, please advise.

A3 – There is no area 3 as referenced on the key plan.

Q4 – Can we get verification as to which Phase areas 1 and 2 are in as they don't seem to be captured in the phasing plans?

<u>A4</u> – RTU-2, RTU-5 are in Phase 1 Summer 2024; RTU-1, RTU-3 and RTU-4 are estimated to be delivered and installed in Fall 2024.

<u>Q5</u> – Please see below Kilmer Environmental request for AAON equipment to be considered equal for the RTU's:

Subject: REQUEST FOR EQUAL

Project: Nelson High School Renovations

Address: 4181 New Street Burlington ON

Project#: 2323

We respectfully request your consideration of the items listed below as equal to those specified on the above noted project.

This equipment would be quoted in accordance with the Tender Documents

Section Tag Product Manufactuer

23 70 00 RTU-1,2,3,4,5 Natural Gas Fired & DX Cooled

Air Handling Units AAON

<u>A5</u> – RTU-2 has already been pre-purchased from Trane. AAON is acceptable for packaged rooftop unit (RTU-5).

Q6 –Please see question from an insulation subcontractor below:

DWG M6.2: The Exterior Thermal Insulation Specification on this drawing does not match the Exterior Insulation Specification found in Section 20 05 25, Item #3.06. Please review and advise.

<u>A6</u> – Both type of insulation are acceptable as long as they meet the required performance.

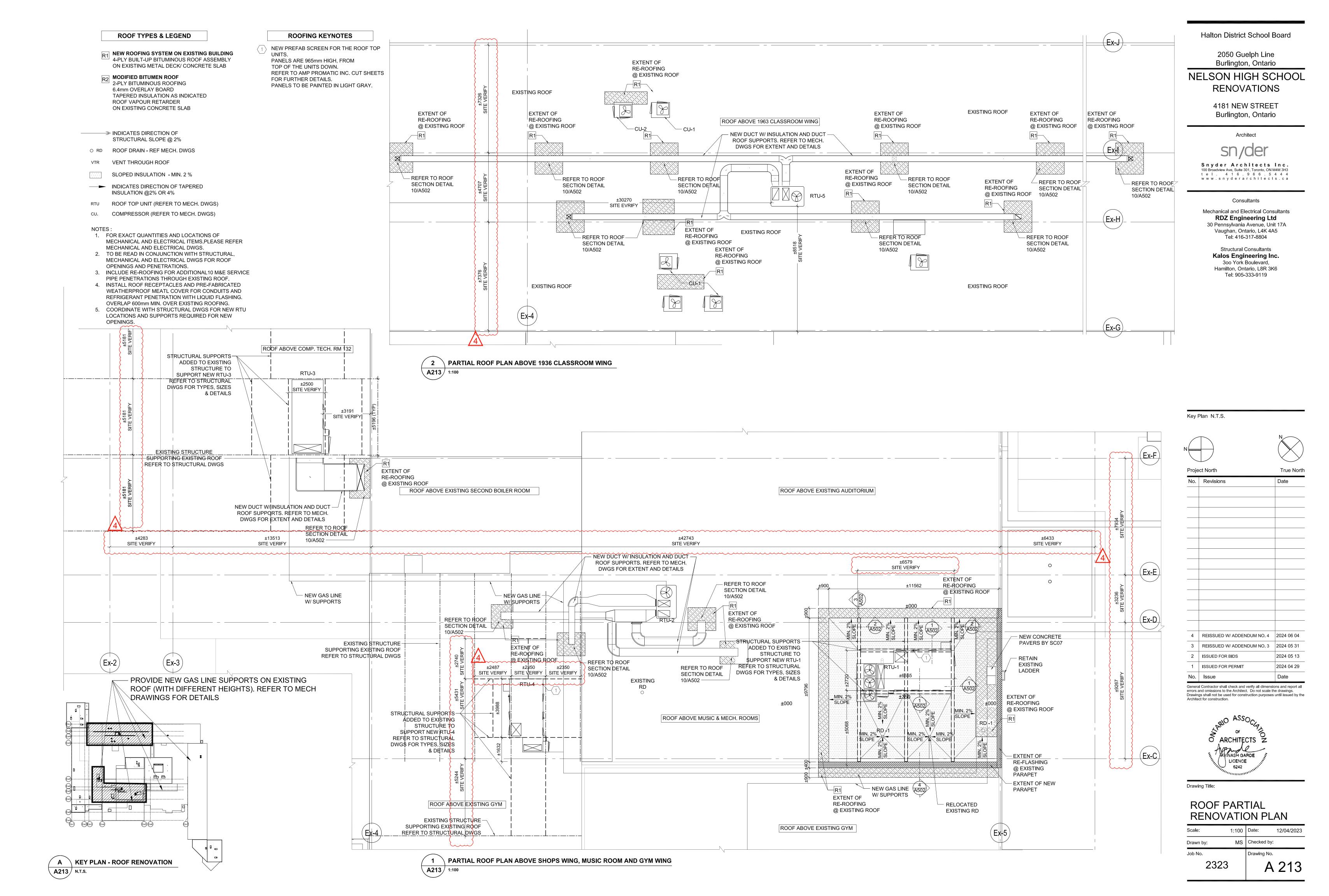
Q7 – 1. Please confirm only 21 of 58 unit ventilators are pre-purchased as per addendum 1.

- <u>A7</u> Per mechanical addendum M-01, a total of twenty-one (21) unit ventilators in the 1963 addition have been pre-purchased.
- <u>Q8</u> Please clarify if UV-8 comes with CU-2, condenser for UV-8 didn't show on roof drawing M3.10.
- <u>A8</u> UV-8 is to be provided with CU-2. Refer to Addendum M-03 for unit location on roof.
- Q9 On page 213-214 there is a mechanical supplementary bid form. How is that to be submitted?
- <u>A9</u> Per instruction on bid form, email completed form by time of bid closing to Giovanni Rea (<u>giovanni@rdzeng.ca</u>) . This supplementary bid form must be submitted within 1 hour of bid closing.
- Q10 On page 9 of the tender documents, it states to submit the subcontractor list, but there is no list provided in the bid documents, or a place to put this information on Bids and Tenders.
- A10 Not required.
- Q11 The following drawing was not issued in the Addendum # 2 DWG A104 Conceptual Implementation & Phasing Plans. Please review and advise.
- A11 Refer to Addendum No. 3
- Q12 Mechanical Insulation, Section 20 05 25, Item 2.07 Insulation Jackets and Finishes Item 2.07.2: Roll form sheet and fittings minimum 15 mm (1/2") thick white PVC, Please review and advise on the thickness requirement.
- A12 PVC shall be 15mil (0.4mm) thick.
- Q13 Detail 3/A600, boxing of the steel columns what kind of material are they? Please clarify.
- A13 Refer to item A4-1.
- $\underline{\text{Q14}}$ Within Addendum no. 2 Spec section 09 96 46 was added. Please confirm which SC scope is to include this work.
- A14 Spec section 09 96 46 Intumescent Painting work BY SC01 GENERAL
- $\underline{\text{Q15}}$ Can you please confirm if our work is within the hoarded area during the school year (September June) it can be completed during regular hours?
- <u>A15</u> Revise Section 01 35 00 Item 1.8.2 as follows: "... Work performed within existing facility may be performed to the following times:
- .1 July 1 to August 31 (Summer): Mondays to Fridays, between the hours of 7:00 am and 11:00 pm.

- .2 September 1 to June 30 (School Operation): Mondays to Fridays, between the hours of 7:00 am and 11:00 pm.
- .3 Saturday and Sunday work may be performed as necessary with prior arrangement with the school Board.
- Q16 In regards to note 11 on A207, can you please confirm that these openings will be cut and removed by SC02 and and only the infill is by SC01?
- <u>A16</u> Duct penetration wall openings demo by SC02 DEMO&ABATEMENT. Masonry patchwork around new penetration BY SC01 GENERAL.
- Q17 Please confirm that the closing date has been revised to June 6th @3:00pm as per the addendum as Bids and Tender still states June 4th?

A17 - Correct: Closing Date is June 6th at 3:00pm

END OF ADDENDUM #4



MECHANICAL ADDENDUM M-03



Project Name: HDSB Nelson High School Renovations Date: June 3, 2024

Project Address: 4181 New Street,

Burlington, ON L7L 1T3

Project No.: 23178

Mechanical Addendum M-03

Include for the following additions, deletions, and/or clarifications in your bid amount. Indicate in the space provided on the bid form that you have received and included for the requirements of this addendum.

1. SPECIFICATIONS

1.1. SECTION 20 05 25: MECHANICAL INSULATION

- .1 Revise article 2.07.2 as indicated below:
 - .2 Roll Form Sheet and Fitting Covers minimum 15 mil (0.4mm) thick white PVC, 25/50 fire/smoke rated tested in accordance with ULC S102, complete with installation and sealing accessories. Acceptable products are:
 - .1 Proto Corp. "LoSMOKE";
 - .2 The Sure-Fit System "SMOKE-LESS 25/50";
 - .3 Johns Manville Inc. "Zeston" 300.

1.2. SECTION 23 70 00: ROOFTOP UNITS

.1 Revise article 2.01.12 as indicated below:

.12 ACCEPTABLE MANUFACTURERS

- .1 Trane;
- .2 Daikin;
- .3 Johnson Controls;
- .4 AAON.

MECHANICAL ADDENDUM M-03



Project No.: 23178

Date: June 3, 2024 Page 2 of 2

2. DRAWINGS

2.1. M-3.2: PARTIAL GROUND FLOOR NEW WORK PLAN - HVAC

1 Route refrigerant lines for 'UV-8' as indicated. Secure pipes to side of building up to low roof.

2.2. M-3.10: PARTIAL ROOF NEW WORK PLAN - HVAC

.1 Locate condensing unit 'CU-2' for 'UV-8' on low roof as indicated. Run refrigerant lines between indoor and outdoor units as indicated.

3. ATTACHMENTS

3.1. DRAWINGS

- .1 M3.2: Partial Ground Floor New Work Plan HVAC
- .2 M3.10: Partial Roof New Work Plan HVAC

End of Mechanical Addendum M-03

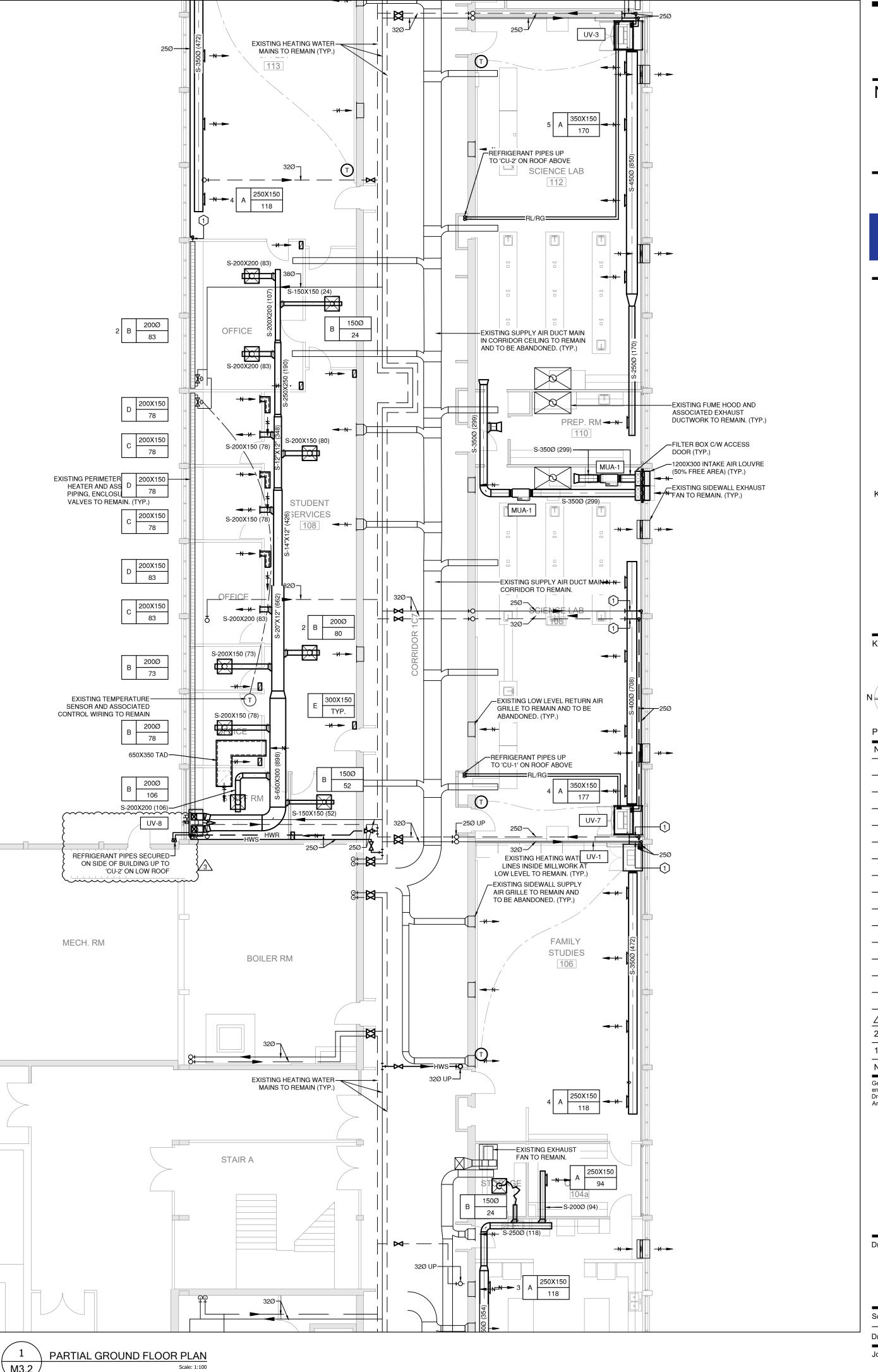
NEW WORK GENERAL NOTES

- 1. CORRIDORS IN 1956 AND 1958 ADDITIONS TO REMAIN AS IS.
- 2. PROVIDE INSULATION FOR HORIZONTAL UNIT VENTILATORS' FRESH AIR DUCT FOR AT LEAST 3000MM (10') FROM THE EXTERIOR WALL.
- 3. ALL UNIT VENTILATOR SUPPLY AIR PLENUM, DUCT SLEEVE, AND SUPPLY AIR DUCTWORK TO BE PAINTED WHITE BY PAINTING CONTRACTOR/GC. MECHANICAL CONTRACTOR TO PROVIDE THE ABOVE TO PAINTING CONTRACTOR TO PRIME AND 1ST PAINT COAT PRIOR TO INSTALLATION. COMPLETE INSTALLATION ONCE PAINTING IS COMPLETED.
- 4. MECHANICAL CONTRACTOR RESPONSIBLE FOR REFRIGERANT LINE SIZING AND EQUIVALENT LENGTH TO MEET THE PERFORMANCE OF EQUIPMENT AND TSSA REQUIREMENT. INCLUDE ALL ACCESSORIES REQUIRED TO MEET THE MANUFACTURER'S RECOMMENDATION AND SPECIFIED PERFORMANCE.
- MECHANICAL CONTRACTOR IS RESPONSIBLE FOR THE COMPLETE INSTALLATION OF ALL MECHANICAL WIRING FROM INDOOR UNITS TO ASSOCIATED CONDENSING UNIT. ALL WIRING SHALL BE INSTALLED IN EMT CONDUIT. REFER TO CONDENSING UNIT SHOP DRAWINGS FOR FIELD WIRING DIAGRAM.
- 6. TERMINATE 20MM CONDENSATE DRAIN C/W P-TRAP OF VERTICAL UNIT VENTILATOR THROUGH UNIT'S FRESH AIR LOUVRE. (TYP.)
- 7. CONDENSATE DRAIN TO BE METALLIC UNTIL TERMINATION. PLASTIC TUBING WILL NOT BE ACCEPTED.
- 8. UNIT C/W SUPPLY AIR PLENUM ABOVE VERTICAL UNIT VENTILATOR. PROVIDE FLEXIBLE DUCT CONNECTORS. CONTRACTOR TO COORDINATE EXACT HEIGHT OF PLENUM TO SUIT EXISTING SITE CONDITIONS.
- 9. PROVIDE METAL SLEEVE CONNECTING UNIT VENTILATOR AND ITS ASSOCIATED INTAKE ARE LOUVRE. CONTRACTOR TO COORDINATE SIZE OF SLEEVE TO SUIT EXISTING SITE CONDITIONS.
- 10. PROVIDE LOUVRE BLANK-OFF PANELS AS REQUIRED FOR SECTIONS OF INTAKE AIR LOUVRE NOT USED BY THE UNIT VENTILATORS.
- 11. PROVIDE BASE CURB UNDER UNIT VENTILATORS TO ALIGN THE INTAKE AIR OPENING OF THE UNIT WITH LOUVRE OPENING. CONTRACTOR TO COORDINATE HEIGHT OF CURB TO SUIT EXISTING SITE CONDITIONS.

KEYED NOTES

- PROVIDE ISOLATION VALVE C/W DRAIN PORT TO FACILITATE PHASE OF NEW WORK.
- PROVIDE ISOLATION VALVE ON BRANCH PIPE TO FACILITATE PHASING OF NEW
- VERTICAL UNIT VENTILATOR ACTIVE MECHANICAL LOUVRE AREA:
 - UV-1 1025MM x 950MM UV-2 1125MM x 1150MM
 - UV-3 927MM x 420MM
 - UV-4 1025MM x 950MM
 - UV-7 597MM x 660MM UV-8 927MM x 420MM

PROVIDE BLANK OFF PANEL FOR INACTIVE LOUVRE AREA.



Halton District School Board

2050 Guelph Line Burlington, Ontario

NELSON HIGH SCHOOL RENOVATIONS

4181 NEW STREET Burlington, Ontario

Mechanical



RDZ 17A - 30 Pennsylvania Avenue ENG Vaughan, Ontario L4K 4A5 email: info@rdzeng.ca

Architect

Snyder Architects Inc. 100 Broadview Ave, Suite 301, Toronto, ON M4M 3H3 t e I . 4 1 6 . 9 6 6 . 5 4 4 4 w w w . s n y d e r a r c h i t e c t s . c a

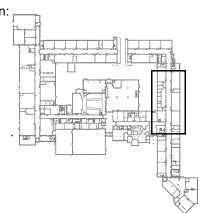
Consultants Mechanical and Electrical Consultants RDZ Engineering Ltd 30 Pennsylvania Avenue, Unit 17A

Vaughan, Ontario, L4K 4A5

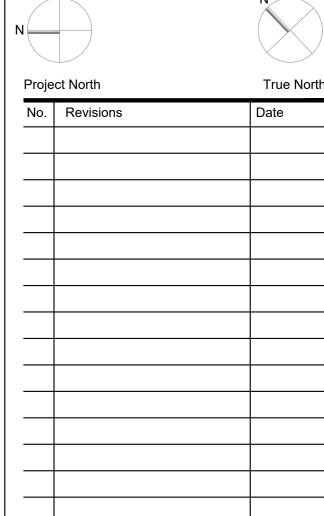
Tel: - -Structural Consultants Kalos Engineering Inc. 300 York Boulevard,

Hamilton, Ontario, L8R 3K6

Tel: 905-333-9119 Key Plan:



Key Plan N.T.S.



General Contractor shall check and verify all dimensions and report all errors and omissions to the Architect. Do not scale the drawings.

Drawings shall not be used for construction purposes until issued by the

06/04/2024

05/13/2024

04/29/2024

ISSUED FOR ADD M-03

ISSUED FOR PERMIT

ISSUED FOR BID

PARTIAL GROUND FLOOR NEW WORK PLAN - HVAC

10/05/2024 1:100 Date: Drawn by: 2323 M3.2

- ANY ROOF RELATED WORK IS TO BE EXECUTED BY HDSB APPROVED VENDORS AND COMPATIBLE ROOFING MATERIAL ARE TO BE USED. CONTRACTOR IS RESPONSIBLE TO NOTIFY AND COORDINATE WORK ON ROOF WITH ALL PARTIES PRIOR TO CONSTRUCTION.
- 3. PAINT FULL CIRCUMFERENCE OF GAS PIPE YELLOW AS PER CSA B149.1. LABEL GAS PIPING COMPLETE WITH GAS PRESSURE ON WEATHERPROOF LABELS AS PER CSA

NEW WORK NOTES 2. PATCH, SEAL, AND MAKE GOOD OF ALL ROOF OPENINGS. ALL ROOFING WORK TO BE PROVIDED BY HDSB'S PRE-QUALIFIED ROOFING CONTRACTORS. REFRIGERANT PIPES FROM BELOW

REFRIGERANT PIPES FROM BELOW

Halton District School Board

2050 Guelph Line Burlington, Ontario

NELSON HIGH SCHOOL

RENOVATIONS

4181 NEW STREET Burlington, Ontario

Mechanical

RDZ ENGINEERS LTD
17A - 30 Pennsylvania Avenue
Vaughan, Ontario L4K 4A5
email: info@rdzeng.ca

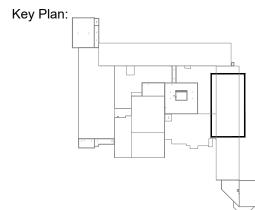
Snyder Architects Inc.

100 Broadview Ave, Suite 301, Toronto, ON M4M 3H3
tel. 4 1 6 . 9 6 6 . 5 4 4 4
w w w w . snyderarchitects.ca

Consultants Mechanical and Electrical Consultants

RDZ Engineering Ltd 30 Pennsylvania Avenue, Unit 17A Vaughan, Ontario, L4K 4A5 Tel: - -

Structural Consultants Kalos Engineering Inc. 3oo York Boulevard, Hamilton, Ontario, L8R 3K6 Tel: 905-333-9119



Key Plan N.T.S.



3 ISSUED FOR ADD M-03 06/04/2024 ISSUED FOR BID 05/13/2024 ISSUED FOR PERMIT 04/29/2024 General Contractor shall check and verify all dimensions and report all errors and omissions to the Architect. Do not scale the drawings. Drawings shall not be used for construction purposes until issued by the Architect for construction.

Drawing Title:
PARTIAL ROOF **NEW WORK** PLAN - HVAC

1:100 Date: 10/05/2024 M3.10

PARTIAL ROOF PLAN
Scale: 1:100

EXISTING NATURAL GAS METER ASSEMBLY TO REMAIN.

REFRIGERANT PIPES DN ON SIDE OF BUILDING