



ARCHITECTURAL TENDER ADDENDUM A - 2

PROJECT: **Mavis S. Mech. & Roof Renewal**
3185 Mavis Rd, Mississauga, ON
L5C 1T7

REFERENCE:
1. Arch. Specifications. Section 07 11 13.

PROJECT NO:

DATE: September 12, 2024

PAGES: - plus attachments

The following items shall be incorporated as clarifications to the Tender Documents and shall be included, as applicable, in the Stipulated Sum Tender Amount. Acknowledgement of the receipt of this Addendum shall be indicated in the Tender Form. It is the responsibility of the bidder to bring this addendum to the attention of all subcontractors and material suppliers.

1 QUESTIONS & ANSWERS:

N/A

2 PROCUREMENT AND CONTRACTING REQUIREMENTS:

2.1 N/A

3 ARCHITECTURAL SPECIFICATIONS:

3.1 SECTION 07 11 13 Bituminous Damp Proofing

4 ARCHITECTURAL DRAWINGS:

4.1 N/A

5 MECHANICAL DRAWINGS & SPECIFICATIONS:

5.1 N/A

6 ELECTRICAL DRAWINGS & SPECIFICATIONS:

6.1 N/A

END OF ARCHITECTURAL TENDER ADDENDUM A-2

PER:

Himani Patel for Paul Didur, Project Architect

1. GENERAL**1.1. General Requirements**

- 1.1.1. The General Conditions, the Supplementary Conditions, the Instructions to Bidders and Division 1 General Requirements shall be read in conjunction with and govern this section.
- 1.1.2. The Specification shall be read as a whole by all parties concerned. Each Section may contain more or less than the complete work of any trade. The Contractor is solely responsible to make clear to the Subcontractors the extent of their work.

1.2. Summary

- 1.2.1. This Section includes requirements for supply and installation of the following, as required for complete and proper installation:
 - .1 Fluid Applied Bituminous Dampproofing Membrane

1.3. Related Sections

- 1.3.1. Section 03 30 00 Cast-in-Place Concrete

1.4. References

- 1.4.1. Specification American Society for Testing and Materials (ASTM):
 - .1 ASTM D4479/D4479M, Standard Specification for Asphalt Roof Coatings – Asbestos Free
 - .2 ASTM E96, Standard Test Methods for Water Vapor Transmission of Materials
- 1.4.2. Canadian General Standards Board (CGSB):
 - .1 CAN/CGSB 37.2, Emulsified Asphalt, Mineral-Colloid Type, Unfilled, for Dampproofing and Waterproofing, and for Roof Coatings
 - .2 CAN/CGSB 37.16, Filled Cutback Asphalt for Dampproofing and Waterproofing
 - .3 CGSB 37-GP-6M, Asphalt, Cutback, Unfilled for Dampproofing

1.5. Administrative Requirements

- 1.5.1. Coordination: Coordinate the Work of this Section with the installation of exterior substrate; Sequence work so that installation of fluid applied bituminous dampproofing membrane coincides with installation of substrate preparation without causing delay to the Work.

1.6. Submittals

- 1.6.1. Provide requested information in accordance with Section 01 33 00 Submittals Procedures.
- 1.6.2. Action Submittals: Provide the following submittals before starting any work of this Section:
 - .1 Product Data: Submit manufacturer's data sheets covering the care and recommended maintenance procedures for incorporation into maintenance manuals.
 - .2 Certifications:
 - .1 Submit copies of manufacturers' current ISO 9001 certification. Fluid applied bituminous dampproofing membrane, adhesives and associated auxiliary materials shall be included.
 - .3 Submit references clearly indicating that the fluid applied bituminous dampproofing membrane manufacturer has successfully completed projects on an annual basis of similar scope and nature for a minimum of fifteen (15) years.
 - .4 Submit manufacturers' complete set of standard details for the fluid applied bituminous dampproofing membrane showing a continuous plane of water tightness below grade.
 - .5 Provide material checklist complete with application rates and minimum thickness of adhesives and primers.

1.7. Quality Assurance

1.7.1. Qualifications: Provide proof of qualifications when requested by consultant:

- .1 Submit in writing, a document stating that the applicator of the fluid applied bituminous dampproofing membrane specified in this section is recognized by the manufacturer as suitable for the execution of the Work.
- .2 Perform Work in accordance with the manufacturer's written instructions of the fluid applied bituminous dampproofing membrane and this specification.
- .3 Maintain one copy of manufacturer's written instructions on site.
- .4 At the beginning of the Work and at all times during the execution of the Work, allow access to Work site by the fluid applied bituminous dampproofing membrane manufacturers' representative.
- .5 Components used in this section shall be sourced from one manufacturer; including fluid applied bituminous dampproofing membrane, sealants, primers, mastics and adhesives.

1.8. Delivery, Storage and Handling

1.8.1. Delivery: At the time of delivery, visually inspect all materials for damage. Note any damaged to materials on the receiving ticket and immediately report to the shipping company and the material manufacturer.

- .1 Remove damaged materials from the site immediately.

1.8.2. Storage:

- .1 Store materials as recommended by manufacturer and conforming to applicable safety regulatory agencies. Refer to all applicable data including but not limited to MSDS sheets, Product Data sheets, product labels, and specific instructions for personal protection.
- .2 Store materials off the ground and cover with a weather proof flame resistant sheeting or tarpaulin.

1.8.3. Handling: Material shall be handled in accordance with sound material handling practices and in accordance with manufacturer's written instructions.

1.9. Coordination

1.9.1. Ensure continuity of the water seal throughout the scope of this section.

1.9.2. Ambient Conditions:

- .1 Install materials outlined in this Section after completion of work by other Sections is complete; to provide adequate dry, clean, level, and plumb surfaces for installation and adhesion.
- .2 Apply when ambient air and substrate temperatures are above temperature range indicated by fluid applied bituminous dampproofing membrane manufacturer, during time of install, and for a minimum of forty-eight (48) hours after installation, unless otherwise indicated.
- .3 Ensure surfaces are sound, dry, clean and free of oil, grease, dirt, excess mortar or other contaminants.
- .4 Ensure surfaces are dry prior to and a minimum of sixteen (16) hours after time of install.
- .5 Do not permit traffic of any kind over unprotected bituminous dampproofing membranes. Apply protection course as soon as possible in accordance with manufacturers written instructions.

1.10. Alternatives

1.10.1. Submit requests for alternates in accordance with Section 01 23 10 Alternatives.

1.10.2. Submit requests for alternates to this specification a minimum of ten (10) working days prior to bid date. Include a list of twenty-five (25) projects executed over the past five (5) years.

- 1.10.3. Acceptable alternates will be confirmed by addendum. Substitute materials not approved in writing prior to tender closing shall not be permitted for use on this project.

1.11. Warranty

- 1.11.1. Contractor Warranty: Warrant that the fluid applied dampproofing membrane and membrane flashings will stay in place and remain leak proof for five (5) years.
- 1.11.2. Manufacturer's Warranty: Fluid applied dampproofing membrane manufacturer must warranty the membrane and membrane flashings for leak coverage as a result of faulty materials for a period of five (5) years from the date of substantial completion.

2. PRODUCTS

2.1. Material Manufacturer

- 2.1.1. Components and auxiliary materials must be obtained as a single-source from the assembly manufacturer to ensure total system compatibility and integrity.
- 2.1.2. Materials and accessories specified herein are manufactured by:
Henry Company
15 Wallsend Drive,
Scarborough, Ontario, Canada, M1E 3X6
(800) 387 9598
www.henry.com

2.2. Materials

- 2.2.1. Fluid Applied Bituminous Dampproofing Membrane
- .1 Liquid applied, dampproofing emulsion composed of vacuum-reduced asphalt dispersed in a mineral colloid emulsifier, in compliance with CAN/CGSB 37.2. for warm weather applications.
- .1 Colour: Black
- .2 Solids by Volume: 57%
- .3 Application Temperature: 5 deg C (40 deg F) minimum.
- .4 Maximum VOC: 0 g/L
- .5 Water Vapour Permeance (ASTM E96): 8 ng/Pa.m².s., (0.14 perms)
- .6 Basis of Design Product: 700-01 Dampproofing and Waterproofing Asphalt Emulsion by Henry Company.
- .2 Liquid applied medium consistency, solvent type waterproofing and dampproofing compound of selected asphalts and fibres permitting application in thick films; in compliance with CAN/CGSB 37.16-M89. For cold weather applications
- .1 Colour: Black
- .2 Solids by Volume: 54%
- .3 Application Temperature: Ambient (Thickens at low temperature).
- .4 Water Vapour Permeance (ASTM E96): 2.9 ng/Pa.m².s., (0.05 perms)
- .5 Basis of Design Product: 710-11 Dampproofing and Waterproofing Asphalt Coating by Henry Company.
- 2.2.2. Asphalt Primer
- .1 Light bodied asphalt based material for priming surfaces for cold-applied dampproofing coatings, in compliance with CGSB 37-GP-9M.
- .1 Colour: Black
- .2 Solids by Volume: 37%
- .3 Basis of Design Product: 910-01 Penetrating Asphalt Primer by Henry Company.
- 2.2.3. Insulation Adhesive

- .1 Insulation, Drainage Board and Protection Board Adhesive: Synthetic rubber base compound having the following characteristics:
 - .1 Colour: Cream.
 - .2 Compatible with sheet applied waterproofing membrane, substrate and insulation materials.
 - .3 Long term flexibility: Pass CGSB 71-GP-24M.
 - .4 Chemical resistance: Alkalies, mild acid and salt solutions.
 - .5 Application Temperature: between -12 deg C and 40 deg C.
 - .6 Basis of Design Products: 230-21 Insulation Adhesive by Henry Company.

3. EXECUTION

3.1. Examination

3.1.1. Verification of Conditions:

- .1 Examine substrates to receive work and surrounding adjacent surfaces for conditions affecting installation.
- .2 Strike masonry joints flush. Concrete surfaces shall be smooth and without large voids, honeycombing, spalled areas or sharp protrusions.
- .3 Notify Consultant in writing of any discrepancies. Commencement of the work or any parts thereof shall mean acceptance of the prepared substrate.

3.1.2. Notify Contractor in writing of any conditions that are not acceptable.

3.1.3. The installing contractor shall examine and determine that surfaces and conditions are ready to accept the Work of this section in accordance with published literature. Commencement of Work or any parts thereof shall mean installers acceptance of the substrate.

3.2. Preparation

3.2.1. All surfaces must be sound, clean and free of oil, grease, dirt, excess mortar or other contaminants.

3.2.2. Provide adequate protection of materials and work of this section from damage by weather, backfilling operations and other causes.

3.2.3. Protect adjacent surfaces and Work of other trades from damage resulting from Work of this section. Make good such damage at no additional cost to the Owner.

- .1 Provide sound handling and installation procedures to prevent and protect against overspray of materials specified in this Section.

3.3. Installation

3.3.1. Fluid Applied Dampproofing and Waterproofing Membrane Application:

- .1 Preparation: Dry surfaces should be dampened with water prior to application.
- .2 Dampproofing Application: Apply dampproofing coating at a rate of 1.5 l/m² (3.6 gal/100ft²) and let dry.

3.3.2. Fluid Applied Dampproofing Membrane Application in cold conditions:

- .1 Primer: Apply penetrating asphalt primer at a rate of approximately 2 to 8m² (895 to 330ft²).and allow to cure.
- .2 Dampproofing Application: Apply dampproofing coating at approximately 1.5 l/m² (3.6 gal/100ft²). Allow to dry thoroughly before applying board products and/or backfilling.

3.3.3. Insulation Installation:

- .1 Co-ordinate with Section 07 21 00 Thermal Insulation for insulating materials.
- .2 Adhesive (Optional):
 - .1 Apply the insulation adhesive in a serpentine pattern to fluid applied dampproofing membrane.

- .2 Immediately embed insulation into the adhesive and press firmly into place to ensure full contact. Apply additional adhesive if allowed to skin over.
- .3 Fully butter all joints of insulation panels with adhesive during installation, except at expansion joints.
- .4 Stagger the end joints of the insulation.
- .5 Cut the insulation to fit closely to all protrusions and obstructions.
- .3 Insulation Clips:
 - .1 Mechanically fasten insulation clips to the fluid applied dampproofing membrane with adhesive recommended by insulation clip manufacturer.
 - .2 Apply number of insulation clips as recommended by insulation manufacturer, in locations indicated in their written documentation.

3.4. Field Quality Control**3.4.1. Final Observation and Verification:**

- .1 Final inspection of fluid applied dampproofing membrane shall be carried out by the Owner's representative, and the contractor.
- .2 Contact Manufacturer for warranty issuance requirements.
- 3.4.2. Fluid applied dampproofing membrane is not designed for permanent UV exposure. Apply protection board as soon as possible after installation of fluid applied dampproofing membrane. Refer to manufacturer published literature for product limitations.

3.5. Cleaning and Protection

- 3.5.1. Progress Cleaning: Leave work area clean at the end of each work day, ensuring safe movement of passing pedestrians.
- 3.5.2. Waste Management: Co-ordinate recycling of waste materials and packaging at appropriate facility, diverting waste from landfill. Certified installer shall be responsible for ensuring waste management efforts are practiced.

END OF SECTION