PART 1 - GENERAL

1.1 Related Requirements

.1 Section 07 62 00 - Sheet Metal Flashing and Trim.

1.2 References

.1 American Society for Testing and Materials (ASTM)
  .1 ASTM F1667-13, Standard Specification for Driven Fasteners: Nails, Spikes, and Staples.

.2 Canadian General Standards Board (CGSB).
  .1 CAN/CGSB-51.34-M86 AMEND, Vapour Barrier, Polyethylene Sheet for Use in Building Construction.

.3 Canadian Standards Association (CSA)
  .1 CSA O151-09, Canadian Softwood Plywood.

.4 Underwriters Laboratories of Canada (ULC).
  .1 CAN/ULC-S702-14, Standard for Mineral Fibre Thermal Insulation for Buildings.

1.3 Quality Control

.1 Lumber identification: by grade stamp in accordance with the regulation of the Maritime Lumber Bureau grading rules.

.2 Plywood identification: by grade stamp in accordance with applicable CSA standard.

1.4 Delivery and Storage

.1 Store materials on site in such a way as to prevent damage, deterioration or the loss or impairment of their structural and other essential properties.

1.5 Job Conditions

.1 Check job dimensions governing required openings, curb heights, blocking, roughing-in, and fabrication of shop-made components.

.2 Examine site conditions and surfaces for defects of work which may adversely affect the quality of workmanship of this section.

.3 Commencement of work shall imply acceptance of surfaces.

.4 Be responsible for obtaining all required field dimensions.

PART 2 - PRODUCTS

2.1 Lumber and Plywood

.1 Lumber: No. 2 or better, SPF species group, S4S, S-dry.

.2 Furring, blocking, nailing strips, grounds, rough bucks, curbs, fascia backing and sleepers:
- .1 Board sizes: "Standard" or better grade.
- .2 Dimension sizes: "Standard" light framing or better grade.

.3 Softwood plywood: to CSA O151; square edge, select grade exterior plywood.
- .1 Plywood to be located at all roof openings and edges with a depth of 600mm from edge of existing metal deck.

.4 Ensure materials are seasoned to a maximum moisture content of 19%.

2.2 Accessories

.1 Surface-applied wood preservative: copper naphthenate, green coloured, water repellent preservative.

.2 Batt insulation: stone wool, to CAN/ULC S702; unfaced.

.3 Nails, spikes and staples: to ASTM F1667.

.4 Bolts: 12.5 mm diameter unless indicated otherwise, complete with nuts and washers.

.5 Air/Vapour retarder:
- .1 Self-adhesive membrane: SBS modified asphalt with cross laminated polyethylene face.
  - .1 Water vapour permeance: 2.8 ng/Pa.m$^2$.s (0.05 perms) when tested in accordance with ASTM E96/E96M.
  - .2 Roll width: 457 mm.

.2 Accessories:
.1 Primer: emulsion or solvent type to suit application temperature. Use emulsion or low VOC solvent type whenever possible.
.2 Sealant: of type recommended by air/vapour retarder manufacturer.

.6 Polyethylene film: to CAN/CGSB-51.34, Type 1, 0.15 mm thick.

.7 Proprietary fasteners: toggle bolts, expansion shields and lag bolts, screws and lead or inorganic fibre plugs, powder actuated fastening devices, recommended for purpose by manufacturer.

PART 3 - EXECUTION

3.1 Installation

.1 Install members true to line, levels and elevations, square and plumb.

.2 Construct continuous members from pieces of longest practical length.

.3 Supply fastening and anchoring devices for installation into concrete or masonry, for fastening materials specified in this section. Installation of fastening devices into concrete or masonry shall be by trade concerned.

3.2 Erection

.1 Frame, anchor, fasten, tie and brace members to provide necessary strength and rigidity.

.2 Countersink bolts where necessary to provide clearance for other work.

3.3 Surface-Applied Preservative Treatment

.1 Treat wood surfaces in contact with masonry or concrete with wood preservative before installation.

.2 Apply preservative by brush to completely saturate and maintain wet film on surface for minimum 3 minute soak on lumber and one minute soak on plywood.

.3 Keep preservative off wood surfaces to which membranes are to be adhered.

3.4 Air/Vapour Retarder

.1 Install material in accordance with manufacturer's instructions.

.2 Prime surface to receive membrane. Prime only as much area as can be covered by membrane the same working day. Reprime areas not covered in same working day. Apply primer by roller or spray, at rate recommended by manufacturer.

.3 Cut membrane to fit around penetrations and apply bead of sealant to seal voids which may have been caused by fitting of membrane.

.4 Overlap horizontal and vertical joints minimum 50 mm.

.5 Firmly roll entire membrane and seams, using roller, as soon as possible to ensure proper contact. Smoothing/pressing membrane with only hands is not sufficient.

3.5 Insulation Installation

.1 Install insulation to maintain continuity of thermal protection to building elements and spaces.

.2 Fit insulation closely around objects in or passing through insulation.

.3 Do not compress insulation to fit into spaces.

.4 Do not enclose insulation until it has been reviewed by Departmental Representative.

3.6 Miscellaneous Carpentry

.1 Assemble, erect and make complete, installation of all miscellaneous items of rough carpentry indicated on drawings.

.2 Install miscellaneous specialties normally installed by the carpenters.

.3 Install air/vapour barrier on rough carpentry treated with wood preservative containing copper naphthenate to provide barrier against galvanic reaction when in contact with new metal flashing.

END OF SECTION