SECTION  – residential appliances

1. General
   1. SUMMARY
      1. This Section includes requirements for supply and installation of the following residential appliances:

SPEC NOTE: Modify the following list to reflect project requirements.

* + - 1. Refrigerator / Freezer.
      2. Undercounter Refrigerator.
      3. Vending Machine.
      4. Microwave.
      5. Coffee Machine.
  1. SUBMITTALS
     1. Provide required information in accordance with Section 01 33 00 – Submittal Procedures.
     2. Submit product data for each type of product specified including, but not limited to, assembly, disassembly, and storage instructions for removable equipment, characteristics, and mounting arrangements.
     3. Submit shop drawings for residential appliances including, but not limited to, the following:
        1. Plans, elevations, sections, details, and attachments to other work.
        2. Method of field assembly for removable equipment, connections, installation details, mountings, floor inserts, attachments to other work, and operational clearances.
        3. Transport and storage accessories for removable equipment.
     4. Submit coordination drawings indicating kitchen layout plans coordinated with Drawings, drawn to scale, and coordinating electrical plugs, counter heights, and clearance between counter and upper cabinets.
  2. PROJECT CLOSEOUT SUBMISSIONS
     1. Provide operations and maintenance information in accordance with Section 01 33 00 – Submittal Procedures.
     2. Include information detailing emergency procedures, operation, and maintenance of residential appliances.
  3. QUALITY ASSURANCE
     1. List and label electrical components, devices, and accessories in accordance Canadian Electrical Code and Canadian Standards Association using an accepted testing agency and marked for intended use.
     2. Provide appliances which are ENERGY STAR certified and labelled with the ENERGY STAR logo.
  4. PROJECT CONDITIONS
     1. Install residential appliances when spaces are fully enclosed, after wet work in spaces is complete and dry, and ambient temperature and humidity conditions are maintained at levels required for project when occupied for its intended use.
  5. COORDINATION
     1. Coordinate wiring requirements and electrical characteristics with building electrical system for electrically powered equipment.
  6. WARRANTY
     1. Submit manufacturer's standard form of warranty indicating that manufacturer agrees to repair or replace components of residential appliances that fail in materials or workmanship for a period of five (5) years from date of Substantial Performance for the Project.

1. Products
   1. MATERIALS
      1. Aluminum: Alloy and temper recommended by manufacturer for type of use and finish indicated, and as follows:
         1. Extruded Bars, Profiles, and Tubes: ASTM B221 (ASTM B221M).
         2. Cast Aluminum: ASTM B179
         3. Flat Sheet: ASTM B209 (ASTM B209M).
      2. Steel: Type and shape recommended by manufacturer for use indicated and as follows:
         1. Steel Plates, Shapes, and Bars: ASTM A36/A36M.
         2. Steel Tubing: ASTM A500 or ASTM A513, cold formed.
         3. Steel Sheet: ASTM A1011/A1011M.

SPEC NOTE: Please revise the following paragraph to identify the location of the Equipment Schedule

* 1. residential appliances
     1. As indicated in the Equipment Schedules [appended to Appendix A] [on Drawing A##.##].

1. Execution
   1. EXAMINATION
      1. Examine substrates, areas, and conditions for compliance with requirements for layout, alignment of mounting substrates, installation tolerances, operational clearances, accurate locations of connections to building electrical system, and other conditions affecting performance.
      2. Verify critical dimensions.
      3. Examine supporting structure and subgrade, and subfloors below finished floor.
      4. Examine wall assemblies, where reinforced to receive anchors and fasteners, to verify that locations of concealed reinforcements have been clearly marked. Locate reinforcements and mark locations.
      5. Proceed with installation only after unsatisfactory conditions have been corrected.
   2. INSTALLATION
      1. Install and assemble products in accordance with manufacturer's written instructions.
      2. Install residential appliances after other finishing operations, including painting and tiling, have been completed.
   3. ADJUSTING
      1. Adjust movable components of residential appliances to operate safely, smoothly, easily, and quietly, free from binding, warp, distortion, nonalignment, misplacement, disruption, or malfunction, throughout entire operational range; lubricate hardware and moving parts.
   4. CLEANING
      1. Inspect components after completing residential appliances installation.
      2. Remove spots, dirt, and debris and touch up damaged shop applied finishes in accordance with manufacturer's written instructions.
      3. Replace residential appliances and finishes that cannot be cleaned and repaired, in a manner acceptable to the Consultant before time of Substantial Performance.
   5. DEMONSTRATION
      1. Engage a factory authorized service representative to train Owner's maintenance personnel to adjust, operate, and maintain residential appliances specified in this section.

END OF SECTION