1.1 **GENERAL**

1.2 Related Technical Requirements
   - 1. **Section 07 00 10 Building Envelope – General Requirements**
   - 2. **Section 07 40 00 Roofing and Siding Panels**
   - 3. **Section 07 62 00 Sheet Metal Flashing and Trim**

1.3 **Coordination Requirements**
   - 1. Coordinate system design with Building Envelope Consultant.
   - 2. Coordinate system design with design of drainage, venting, and insulation of enclosure assemblies.
   - 3. Coordinate system design with Structural Engineer.

1.4 **Performance Standards**
   - 1. Reinforcing and other steel requiring corrosion protection shall be embedded so that the minimum depth of mortar, grout, or concrete cover is in all cases greater than 40 mm.
   - 2. Stainless steel is to be used where reinforcement or other embedded metal has less cover than 40 mm.
   - 3. Masonry, associated components, (and all materials in the wall assembly behind masonry) shall have a design service life of at least 100 years.
   - 4. Masonry shall be structurally supported to resist maximum wind loads, 30 year return.
   - 5. The support of masonry veneer shall be designed to resist cyclic deformations imposed by earthquake loading of the building.
   - 6. The structural back up wall for masonry veneer shall resist 1 in 30 year return design wind loading with a maximum deflection of L/360.
   - 7. Identify tie type in specifications.
   - 8. Provide details showing ties, masonry interfaces and support in drawings.

1.5 **Quality Control and Assurance**
   - 1. Submittals
      - .1 Shop drawings for masonry ties, masonry support.
      - .2 Construct mock-ups of all assemblies to check contractor’s procedures.

2.1 **MATERIALS**

2.2 **Performance Requirements**
   - 1. Maintenance
      - .1 No maintenance for 100 years, except for cleaning.
   - 2. All masonry accessories to have design service lives compatible with masonry.
2.3 Prescriptive Requirements

.1 Materials

.1 Components

.1 All masonry ties to be stainless steel two-part ties.

.2 Structural steel employed in the support of masonry and in the wall cavity shall be hot dip galvanized or stainless.

.3 Where a galvanized steel or aluminum surface will be in contact with mortar or masonry, the metal shall be over coated with a layer of bituminous or other equivalent barrier material bonded over 100% of its surface area.

.4 All flashings and other waterproofing accessories in the wall cavity shall be designed for a service life of 100 years. Materials considered capable of this service interval are:

.1 Neoprene rubber sheet.

.2 Thermo fusible SBS modified asphalt roofing membrane, fully reinforced, and fully bonded to substrate.

.3 Asphalt modified urethane coating, fully reinforced, fully bonded to substrate.

.2 Finishes

.1 Surfaces of exterior masonry to be treated with a clear silane/siloxane type sealer after final cleaning.

.2 Consideration must be given for treating surfaces of exterior masonry near grade with a sealant and/or clear anti-graffiti type coating. Anti-graffiti coating systems with a wax top coat are preferred.

***END OF SECTION***