1. **GENERAL**
   1. **Summary of Requirements of BCIT**
      1. Description of performance, quality control, and requirements for masonry at BCIT projects.
2. **GENERAL PERFORMANCE REQUIREMENTS**
   1. **Performance Standards**
      1. All masonry work shall be in accordance with the current adopted Masonry Institute of BC technical manual and CAN/CSA A371 and CSA A304.
      2. 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.
      3. Stainless steel is to be used where reinforcement or other embedded metal has less cover than 40 mm.
      4. Masonry, associated components, (and all materials in the wall assembly behind masonry) shall have a design service life of at least 100 years.
      5. Masonry shall be structurally supported to resist maximum wind loads, 30 year return.
      6. The support of masonry veneer shall be designed to resist cyclic deformations imposed by earthquake loading of the building.
      7. 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.
      8. Provide details showing ties, masonry interfaces and support in drawings.
      9. Maintenance – no maintenance for 100 years, except for cleaning and recoating.
      10. All masonry accessories to have design service lives compatible with masonry.
3. **ADMINISTRATIVE and SUBMITTAL REQUIREMENTS**
   1. **BCIT Submittals and Notifications**
      1. Shop drawings for masonry ties, masonry support, masonry control joints, and through wall flashings.
      2. Construct mock-ups of all assemblies to check contractor’s coordination of construction, aesthetics, and any other requirements consultants deem pertinent.
4. **MATERIAL REQUIREMENTS**
   1. **Prescriptive Requirements**
      1. Materials:
         1. Masonry Components:
            1. Masonry ties: Two part stainless steel.
            2. Structural steel employed in the support of masonry within the wall cavity: Hot dip galvanized or stainless steel.
            3. Where a galvanized steel or aluminum surface will be in contact with mortar or masonry, coat with a layer of bituminous or other equivalent barrier material bonded over 100% of its surface area.
         2. Accessory Components:
            1. 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:

Neoprene rubber sheet.

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

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

* + 1. Coatings:
       1. Surfaces of exterior masonry to be treated with a clear silane/siloxane type sealer after final cleaning.
       2. Accessible surfaces of exterior masonry to be treated with a clear anti-graffiti type coating from grade to 3 metres above grade. Anti-graffiti coating systems with a wax top coat are preferred.

\*\*\* END OF **GENERAL MASONRY REQUIREMENTS** SECTION \*\*\*