**SP-XX WALL, PRECAST MODULAR BLOCK RETAINING**

Version Date: 9/13/2019 Revision Date: XX/XX/XXXX by XXX

1. **DESCRIPTION**

The work covered by this special provision includes furnishing and constructing a modular concrete block retaining wall system comprised of a mortar-less, interlocking masonry concrete unit designed with an engineering reinforcement material (where required). The system should allow for curves, straight walls, terraces, near vertical or battered wall face, and/or 90 degree bends. The retaining walls shall be in accordance with the manufacturer’s specifications, and the provisions of these specifications.

2.0 MATERIALS

Precast Modular Block Retaining Wall shall consist of:

 Concrete Unit Compressive Strength - min. 3000 psi (28-day)

 Concrete Unit Absorption - max. 8%

All concrete units, reinforcing material, and any other necessary materials shall be installed in accordance with the manufacture's specifications and the submitted shop drawings.

1. **SUBMITTALS**

The Contractor shall submit style, color and appearance for review by The City of Charlotte.

Prior to fabrication, the Contractor shall submit shop drawings for the Precast Modular Block Retaining Wall, including information necessary for installation. The shop drawings must show the proposed load calculations and any proposed fabric reinforcing.

The shop drawings must be signed and sealed by a Professional Engineer registered in the State of North Carolina if required by Mecklenburg County Building Codes, or required by the City.

The Contractor will also submit the manufacturer’s certification for the Precast Modular Block Retaining Wall units and those products to be used in the installation.

**3.0 CONSTRUCTION METHODS**

The modular block wall shall be constructed per manufacture’s specifications and in accordance with the plans and details.

**4.0 MEASUREMENT**

The quantity of precast modular block retaining walls to be paid for will be the actual square footage of wall, measured along the front surface of the wall from the top of the leveling stone/pad or footer (if required by engineer/manufacturer) to the top of the wall cap, which has been installed and accepted.

If the lower courses must be backfilled before the wall can be completed, the contractor shall coordinate with the City’s inspector to measure and record this quantity for payment before backfilling.

There will be no measurement of leveling stone/pad, backfill, footer (if required by engineer/manufacturer) or engineering reinforcing material, or other items needed for wall construction.

**5.0 PAYMENT**

The quantity of Precast Modular Block Retaining Wall, measured as provided above, will be paid for at the contract unit price per square foot for “Wall, Precast Modular Block Retaining”. Such payment will be full compensation for all work covered by this special provision including but not limited to excavating, backfill, constructing foundation (leveling stone/pad or footer), furnishing and constructing modular block retaining wall including pins and reinforcing material if required by the manufacturer; drainage system and any incidental items necessary to construct the work as shown on the plans, the manufacturers specifications, and the provisions of these specifications.

Payment will be made under:

**WALL, PRECAST MODULAR BLOCK RETAINING SF**