PART 1 - GENERAL

1.1 SUMMARY

A. Includes But Not Limited To:
   1. Quality of tile setting materials and accessories furnished and installed under other Sections.

B. Related Sections:
   1. Section 22 1313: Floor drains.

1.2 REFERENCES

A. American Society For Testing And Materials:
   1. ASTM A 185-02, 'Standard Specification for Steel Welded Wire Fabric, Plain, for Concrete Reinforcement.'
   2. ASTM C 144-03, 'Standard Specification for Aggregate for Masonry Mortar.'
   5. ASTM C 207-01, 'Standard Specification for Hydrated Lime for Masonry Purposes.'
   7. ASTM C 1178-01, 'Standard Specification for Glass Mat Water-Resistant Gypsum Backing Panel.'

1.3 DELIVERY, STORAGE, AND HANDLING

A. Deliver and store packaged materials in their original unopened containers with labels intact until time of use. Store and handle materials in a manner to prevent damage or contamination by water, freezing, or foreign matter.

PART 2 - PRODUCTS

2.1 MATERIALS

A. Setting Bed:
   1. Portland Cement: Meet requirements of ASTM C 150, Type 1, designation shall appear on bag.
   2. Hydrated Lime:
      a. Meet requirements of one of following:
         1) ASTM C 206.
         2) ASTM C 207, Type S (designation shall appear on bag).
   3. Sand: Clean, washed, well-graded, meeting requirements of ASTM C 144 with gradation of 100 percent passing No. 8 sieve with not over 5 percent passing No. 100 sieve.

B. Glass Mat Gypsum Tile Backer:
   1. Tile Backer:
      a. 5/8 inch 16 mm thick water-resistant tile backer meeting requirements of ASTM C 1178, Type X.
      b. Category Four Approved Manufacturer. See Section 01 6000 for definitions of Categories.
         1) Dens-Shield Fireguard by G-P Gypsum.
   2. Fasteners:
a. Wood Framing: 1-7/8 inch 48 mm long Type W or Type S Hi-Lo screws.
b. Metal Framing: 1-7/8 inch 48 mm long Type S Hi-Lo screws.

3. Joint Tape: 2 inch 50 mm wide glass fiber mesh tape.

C. Crack Isolation Membrane For Thinset Paver Tile:
   1. Category Four Approved Products. See Section 01 6000 for definitions of Categories.
      a. DalSeal CIS by Dal-Tile.
      b. Iso Mat by Laticrete.
      c. Mapelastic SM by Mapei.
      d. ECB Membrane by NAC.
      e. NobleSeal CIS by The Noble Company.
      f. S-9000 by Summitville Labs.

D. Latex-Portland Cement Mortar:
   1. Ceramic Floor Tile Setting Mortar:
      a. Meet requirements of ANSI A118.4 for manufactured mortar, two-part system.
      b. Category Four Approved Products. See Section 01 6000 for definitions of Categories.
         1) Tile Mate Dry-Set Mortar with Hydroment Multipurpose Acrylic Latex Mortar Admixture
            by Bostik.
         2) Permobond Dry-Set Mortar with C-Crylic 200 Acrylic Admix by C-Cure.
         3) Custom Thinset Mortar Dry-Set Mortar with Acrylic Mortar Admix by Custom.
         4) Kerabond Premium Floor & Wall Dry-Set Mortar with Keraply Acrylic Latex Dry-Set
            Mortar Additive by Mapei.
         5) S-777 Thin Set Mortar with S-810 Copolymer Latex by Summitville Labs.
         6) Full Set Plus with XtraFlex Admix by TEC.

E. Dry-Set Portland Cement Mortar:
   1. Glazed White Body Wall Tile Setting Mortar:
      a. Meet requirements of ANSI A118.1 for manufactured mortar.
      b. Category Four Approved Products. See Section 01 6000 for definitions of Categories.
         1) Tile Mate by Bostik.
         2) Permobond by C-Cure.
         3) Custom Thinset by Custom.
         4) 272 by Laticrete.
         5) Ultraflex2 by Mapei.
         6) Thin-Set 700 by Mer-Krete Systems.
         7) S-777 by Summitville Labs.
         8) Latex-Modified Thin Set Mortar 345 by TEC.

F. Metal Trim:
   1. Category Four Approved Products. See Section 01 6000 for definitions of Categories.
      a. Tile / Carpet Junction: Schluter-RENO-AETK.
      b. Floor / Wall Junction: Schluter-DILEX-EK, color G, PG, or HB as selected by Architect.
      c. Wall / Wall Junction: Schluter-DILEX-EKE color G, PG, or HB as selected by Architect.
      d. Font Stair Nosing: Schluter-TREP-B, one inch, color G or HB as selected by Architect.
      e. Over Expansion Joints In Slabs: Schluter DILEX-BWS, color G, PG, or HB as selected by
         Architect.

G. Joint Sealants:
   1. Standard color to closely match grout joints as selected by Architect.
   2. Category Four Approved Products. See Section 01 6000 for definitions of Categories.
      a. Tub, Tile, And Ceramic Silicone Sealant by Dow Corning.
      b. Sanitary 1700 by General Electric.
      c. Pro-Select Kitchen And Bath Silicone Sealant by Sherwin Williams.

H. Commercial Epoxy Grout:
   1. Sanded.
   2. Color as selected by Architect.
   3. Category Four Approved Products. See Section 01 6000 for definitions of Categories.
a. Easy-Clean Grout by ColorFast.
b. Latapoxy SP-100 by Laticrete.
c. Kerapoxy by Mapei.
d. Mer-Poxy 420 by Mer-Krete Systems.
e. S-400 Epoxy-Set Grout by Summitville Labs.
f. TA-470 Epoxy Mortar & Grout by TEC.

I. Commercial Portland Cement Non-Sanded Grout:
   1. Color as selected by Architect.
   2. Category Four Approved Products. See Section 01 6000 for definitions of Categories.
      a. Bonsal Polymer Modified Unsanded Tile Grout by Bonsal American.
      b. Dry Tile Grout with Hydroment Multi-Purpose Acrylic Latex Grout Additive by Bostik.
      c. Unsanded Dry Set Wall Grout with 1776 Grout Admix Plus additive by Laticrete.
      d. Ker 800 Polymer-Modified Portland Cement Grout by Mapei.
      e. S-667 Unsanded Joint Filler with S-775 Acrylic Latex Additive by Summitville Labs.
      f. TA-610 Unsanded Wall Grout by TEC.

J. Penetrating Sealer:
   1. Category Four Approved Products. See Section 01 6000 for definitions of Categories.
      a. 511 Impregnator by Miracle Sealants.
      b. Sealer's Choice by Aqua Mix.

2.2 MANUFACTURERS

A. Contact Information:

2.3 MIXES

A. Setting Beds:

<table>
<thead>
<tr>
<th></th>
<th>Portland Cement</th>
<th>Dry Sand</th>
<th>Damp Sand</th>
<th>Hydrated Lime*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor Mix</td>
<td>One Part</td>
<td>5 Parts</td>
<td>4 Part</td>
<td>1/10 Part</td>
</tr>
<tr>
<td>Wall Mix</td>
<td>One Part</td>
<td>- -</td>
<td>5-1/2 to 7 Parts</td>
<td>1/2 Part</td>
</tr>
<tr>
<td>Font</td>
<td>One Part</td>
<td>- -</td>
<td>4 Part</td>
<td>- -</td>
</tr>
<tr>
<td>Showers</td>
<td>One Part</td>
<td>- -</td>
<td>4 Part</td>
<td>- -</td>
</tr>
</tbody>
</table>

* Optional
** Use waterproofing admixture. Mix dry then add minimum amount of water.
PART 3 - EXECUTION: Not Used

END OF SECTION