SECTION 093000 – CERAMIC AND PORCELAIN TILE

PART 1 – GENERAL

1.1 RELATED DOCUMENTS

A. Division 01 Specification Sections

1.2 SUMMARY

A. This section relates to porcelain floor tile, ceramic wall tile, and associated adhesives, grout and trim.

1.3 SUBMITTALS

A. Product Specification
B. Specification for Adhesive
C. Shop Drawings
D. Samples
E. Schedule
F. Qualifications for Installer

1.4 CLOSEOUT SUBMITTALS

A. Maintenance Instructions
B. Warranty Documents

1.5 QUALITY ASSURANCE

A. Installer Qualifications: Installer who has been trained in the installation of porcelain tile.

1.6 MATERIAL STORAGE AND HANDLING

A. Deliver and store packaged materials in original containers with seals unbroken and labels intact until time of use.
B. Store materials to prevent damage or contamination to materials by water, freezing, foreign matter, and other causes; store cementitious materials in a dry area, and blocked off floor and ground surfaces.

1.7 SITE CONDITIONS

The following conditions must be maintained for 24 hours prior to, during and permanently after installation:

A. HVAC System must be operational.
B. The installation site, carpet and adhesive must be between 50°F and 95°F.

C. The installation site's ambient relative humidity must not fall below 40%.

PART 2 – PRODUCTS

2.1 PORCELAIN FLOOR TILE

A. Manufacturer: Daltile
B. Product: Sleigh Creek Glazed Porcelain
C. Color: Landau SK35
D. Size: 6 in x 36 in
E. Thickness: 5/16 inch
F. Grout Joint: 3/16"
G. Water Absorption: ASTM C373 - <0.5%
H. Breaking Strength: ASTM C648 >275 lbs
I. Scratch Hardness: MOHS 8.0
J. Chemical Resistance: C650 Resistant
K. Installation Pattern: Staggered Brick

2.2 CERAMIC FLOOR TILE - SHOWER

A. Manufacturer: Daltile
B. Product: Color Wheel Mosaic
C. Color: Architectural Grey 0709 Matte
D. Size: 1.5 inch Hexagon Mosaic
E. Thickness: 1/4 inch
F. Grout Joint: 1/8"
G. Water Absorption: ASTM C373 - <3.0%
H. Breaking Strength: ASTM C648 >250 lbs
I. Scratch Hardness: MOHS 8.0
J. Chemical Resistance: C650 Resistant
K. Installation Pattern: Mosaic

2.3 CERAMIC WALL TILE - RESTROOMS

A. Manufacturer: Daltile
B. Product: Mythology Glazed Ceramic, Undulated
C. Color: Aura MY95 Glossy
D. Size: 4 in x 12 in
E. Thickness: 5/16 inch
F. Grout Joint: 1/16"
G. Water Absorption: ASTM C373 - <2005%

H. Breaking Strength: ASTM C648 >120-230 lbs
I. Scratch Hardness: MOHS 4.0-6.0
J. Chemical Resistance: C650 Resistant
K. Installation Pattern: Horizontal Brick
L. Trim: 12 inch Jolly half round trim in matching color for top of wainscot

2.4 CERAMIC WALL TILE - BACKSPLASH

A. Manufacturer: Daltile
B. Product: Retrospace Remix Glazed Ceramic
C. Color: Mercury Grey RS31
D. Size: 3 in x 6 in
E. Thickness: 5/16 inch
F. Grout Joint: 1/16”
G. Water Absorption: ASTM C373 - <2005%
H. Breaking Strength: ASTM C648 >120-230 lbs
I. Scratch Hardness: MOHS 4.0-6.0
J. Chemical Resistance: C650 Resistant
K. Installation Pattern: Horizontal Brick

2.3 INSTALLATION MATERIALS

A. Adhesives: Latex-fortified thinset mortar recommended and approved by the manufacturer for the porcelain floor selected.
B. Grout: Mapei, Sanded cementitious, Keracolor SF; color to be selected from standard range.
C. Trim at Restroom Wall to Floor and Oustide Corners: Schluter DILEX-AHK in brushed nickel.

PART 3 – EXECUTION

3.1 EXAMINATION

A. Examine substrates, with Installer present, for compliance with requirements for maximum moisture content, pH, smoothness and level.

3.2 PREPARATION

A. Substrates shall be smooth, structurally sound, permanently dry, clean and free of all foreign material such as dust, wax, solvents, paint, grease, oils, old adhesive residue, curing and hardening/ curing compounds, sealers and other foreign material that might prevent adhesive bond.

B. Fill depressions or cracks with a cementitious patching/leveling compound that meets or exceeds the required moisture level and pH requirements. Use of gypsum-based patching and/or leveling compounds which contain Portland or high alumina cement and meet or exceed the compressive strength of 3,000 psi are acceptable.

3.3 LAYOUT AND INSTALLATION

A. Start the tile installation as near to the center of the room as possible and position it to use the largest perimeter cut tile size.

3.4 CLEANING

A. Perform initial and on-going maintenance according to the manufacturer's recommendations.

B. PROTECTION

A. Protect installed flooring as recommended by the flooring manufacturer against damage from rolling loads, other trades, or the placement of fixtures and furnishings.

END OF SECTION 093000