ADDENDUM 01

PROJECT: RFP24-012 - Ben Lomond High School Auditorium Remodel

PROJECT NUMBER: 230109

DATE: February 15, 2024

Incorporate into the Contract the following additions to the project manual:

GENERAL

None.

QUESTIONS

None

GENERAL DRAWING CHANGES

None

ARCHITECTURAL DRAWING CHANGES

None

PROJECT MANUAL

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  • Division 09 – Finishes: Added specification sections 09 3013 CERAMIC TILING & 09 6519 LVT RESILIENT FLOORING to Table of Contents

09 3013 CERAMIC TILING
  • Added specification section 09 3013 CERAMIC TILING to Project Manual

09 6519 LVT RESILIENT FLOORING
  • Added specification section 09 6519 LVT RESILIENT FLOORING to Project Manual

END OF WRITTEN RESPONSE

Mark D. Pavoni, AIA, NCARB

Attachments:

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SECTION 093013
CERAMIC TILING

PART 1 GENERAL

1.01 SUMMARY
A Section Includes:
   1 Ceramic tile.
   2 Metal edge strips.
B Related Sections:
   1 Division 7 Section "Joint Sealants" for sealing of expansion, contraction, control, and isolation joints in tile surfaces.
   2 Division 9 Section "Gypsum Board" for cementitious backer units.

1.02 DEFINITIONS
A General: Definitions in the ANSI A108 series of tile installation standards and in ANSI A137.1 apply to Work of this Section unless otherwise specified.
C Module Size: Actual tile size plus joint width indicated.
D Face Size: Actual tile size, excluding spacer lugs.

1.03 SUBMITTALS
A Product Data: For each type of product indicated.
B Shop Drawings: Show locations of each type of tile and tile pattern. Show widths, details, and locations of expansion, contraction, control, and isolation joints in tile substrates and finished tile surfaces.
C Samples for Initial Selection: For each type of tile and grout indicated. Include Samples of accessories involving color selection.
D Samples for Verification:
   1 Full-size units of each type and composition of tile and for each color and finish required.
   2 Assembled samples mounted on a rigid panel, with grouted joints, for each type and composition of tile and for each color and finish required. Make samples at least 12 inches square, but not fewer than 4 tiles. Use grout of type and in color or colors approved for completed Work.
   3 Full-size units of each type of trim and accessory for each color and finish required.
   4 Metal edge strips in 6-inch lengths.
E Qualification Data: For qualified Installer.
F Master Grade Certificates: For each shipment, type, and composition of tile, signed by tile manufacturer and Installer.
G Product Certificates: For each type of product, signed by product manufacturer.
H Material Test Reports: For each tile-setting and grouting product.

1.04 QUALITY ASSURANCE
A Source Limitations for Tile: Obtain tile of each type and color or finish from one source or producer.
   1 Obtain tile of each type and color or finish from same production run and of consistent quality in appearance and physical properties for each contiguous area.
B Source Limitations for Setting and Grouting Materials: Obtain ingredients of a uniform quality for each mortar, adhesive, and grout component from one manufacturer and each aggregate from one source or producer.
C Source Limitations for Other Products: Obtain each of the following products specified in this Section from a single manufacturer for each product:
   1 Joint sealants.
   2 Metal edge strips.
D Preinstallation Conference: Conduct conference at Project site.
   1 Review requirements in ANSI A108.01 for substrates and for preparation by other trades.

1.05 DELIVERY, STORAGE, AND HANDLING
A Deliver and store packaged materials in original containers with seals unbroken and labels intact until time of use. Comply with requirements in ANSI A137.1 for labeling tile packages.
B Store tile and cementitious materials on elevated platforms, under cover, and in a dry location.
C Store aggregates where grading and other required characteristics can be maintained and contamination can be avoided.
D Store liquid materials in unopened containers and protected from freezing.
E Handle tile that has temporary protective coating on exposed surfaces to prevent coated surfaces from contacting backs or edges of other units. If coating does contact bonding surfaces of tile, remove coating from bonding surfaces before setting tile.

1.06 PROJECT CONDITIONS
A Environmental Limitations: Do not install tile until construction in spaces is complete and ambient temperature and humidity conditions are maintained at the levels indicated in referenced standards and manufacturer's written instructions.

1.07 EXTRA MATERIALS
A Furnish extra materials that match and are from same production runs as products installed and that are packaged with protective covering for storage and identified with labels describing contents.
   1 Tile and Trim Units: Furnish quantity of full-size units equal to 3 percent of amount installed for each type, composition, color, pattern, and size indicated.
   2 Grout: Furnish quantity of grout equal to 3 percent of amount installed for each type, composition, and color indicated.

PART 2 PRODUCTS

2.01 PRODUCTS, GENERAL
A ANSI Ceramic Tile Standard: Provide tile that complies with ANSI A137.1 for types, compositions, and other characteristics indicated.
1 Provide tile complying with Standard grade requirements unless otherwise indicated.

B ANSI Standards for Tile Installation Materials: Provide materials complying with ANSI A108.02, ANSI standards referenced in other Part 2 articles, ANSI standards referenced by TCA installation methods specified in tile installation schedules, and other requirements specified.

C Factory Blending: For tile exhibiting color variations within ranges, blend tile in factory and package so tile units taken from one package show same range in colors as those taken from other packages and match approved Samples.

D Mounting: For factory-mounted tile, provide back- or edge-mounted tile assemblies as standard with manufacturer unless otherwise indicated.

1 Where tile is indicated for installation in wet areas, do not use back- or edge-mounted tile assemblies unless tile manufacturer specifies in writing that this type of mounting is suitable for installation indicated and has a record of successful in-service performance.

E Factory-Applied Temporary Protective Coating: Where indicated under tile type, protect exposed surfaces of tile against adherence of mortar and grout by precoating with continuous film of petroleum paraffin wax, applied hot. Do not coat unexposed tile surfaces.

2.02 TILE PRODUCTS

A Tile Type WT1: Red body ceramic tile.

1 Basis-of-Design Product: Subject to compliance with requirements, provide product indicated on Drawings or comparable product by one of the following:
   a American Olean; Division of Dal-Tile International Inc.
   b Crossville, Inc.
   c Daltile; Division of Dal-Tile International Inc.
   d Interceramic.

2 Composition: Ceramic.

3 Module Size: 12 by 24 inches.

4 Thickness: 3/8 inch.

5 Face: Plain with cushion edges.

6 Surface: Smooth, without abrasive admixture.

7 Tile Color and Pattern: As indicated on drawings.

8 Grout Color: As selected from manufacturer’s full range of colors.

2.03 SETTING MATERIALS


1 Cleavage Membrane: Asphalt felt, ASTM D 226, Type I (No. 15); or polyethylene sheathing, ASTM D 4397, 4.0 mils thick.

2 Reinforcing Wire Fabric: Galvanized, welded wire fabric, 2 by 2 inches by 0.062-inch diameter; comply with ASTM A 185 and ASTM A 82 except for minimum wire size.

3 Expanded Metal Lath: Diamond-mesh lath complying with ASTM C 847.
   a Base Metal and Finish for Interior Applications: Uncoated or zinc-coated (galvanized) steel sheet, with uncoated steel sheet painted after fabrication into lath.
   b Base Metal and Finish for Exterior Applications: Zinc-coated (galvanized) steel sheet.
c  Configuration over Studs and Furring: Flat.
d  Configuration over Solid Surfaces: Self furring.
e  Weight: 2.5 lb/sq. yd..

B  Latex Additive: Manufacturer's standard water emulsion, serving as replacement for part or all of gaging water, of type specifically recommended by latex-additive manufacturer for use with field-mixed portland cement and aggregate mortar bed.

1  Latex-Portland Cement Mortar (Thin Set): ANSI A118.4.
   a  Boiardi Products; a QEP company.
   b  Bonsal American; an Oldcastle company.
   c  Bostik, Inc.
   d  C-Cure.
   e  Custom Building Products.
   f  Jamo Inc.
   g  Laticrete International, Inc.
   h  MAPEI Corporation.
   i  Mer-Kote Products, Inc.
   j  Southern Grouts & Mortars, Inc.
   k  Summitville Tiles, Inc.
   l  TEC; a subsidiary of H. B. Fuller Company.

2  Provide prepackaged, dry-mortar mix containing dry, redispersible, vinyl acetate or acrylic additive to which only water must be added at Project site.

3  Provide prepackaged, dry-mortar mix combined with acrylic resin liquid-latex additive at Project site.

4  For wall applications, provide mortar that complies with requirements for nonsagging mortar in addition to the other requirements in ANSI A118.4.

2.04 GROUT MATERIALS

A  Sand-Portland Cement Grout: ANSI A108.10, composed of white or gray cement and white or colored aggregate as required to produce color indicated.

B  Polymer-Modified Tile Grout: ANSI A118.7.

1  Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
   a  Custom Building Products.
   b  Laticrete International, Inc.
   c  MAPEI Corporation.

2.05 ELASTOMERIC SEALANTS

A  General: Provide sealants, primers, backer rods, and other sealant accessories that comply with the following requirements and with the applicable requirements in Division 7 Section "Joint Sealants."
1 Use sealants that have a VOC content of 250 g/L or less when calculated according to 40 CFR 59, Subpart D (EPA Method 24).

2 Use primers, backer rods, and sealant accessories recommended by sealant manufacturer.

B Colors: Provide colors of exposed sealants to match colors of grout in tile adjoining sealed joints unless otherwise indicated.

C One-Part, Mildew-Resistant Silicone Sealant: ASTM C 920; Type S; Grade NS; Class 25; Uses NT, G, A, and, as applicable to nonporous joint substrates indicated, O; formulated with fungicide, intended for sealing interior ceramic tile joints and other nonporous substrates that are subject to in-service exposures of high humidity and extreme temperatures.

1 Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to, the following:
   a DAP Inc.; Titanium Enriched Kitchen and Bath Sealant 100 percent Silicone Kitchen and Bath Sealant.
   b Dow Corning Corporation; Dow Corning 786.
   c GE Silicones; a division of GE Specialty Materials; Sanitary 1700.
   e Pecora Corporation; Pecora 898 Sanitary Silicone Sealant.
   f Tremco Incorporated; Tremcrete 600 White.

D Multipart, Pourable Urethane Sealant for Use T: ASTM C 920; Type M; Grade P; Class 25; Uses T, M, A, and, as applicable to joint substrates indicated, O.

1 Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to, the following:
   b Degussa Building Systems; Sonneborn Sonastic SL 2.
   c Pecora Corporation; Dynatrol II-SG.
   d Sika Corporation; SikaFlex-2c SL.
   e Tremco Incorporated; TH-900.

E Chemical-Resistant Sealants: For chemical-resistant floors, provide chemical-resistant elastomeric sealant of type recommended and produced by chemical-resistant mortar and grout manufacturer for type of application indicated, with proven service record and compatibility with tile and other setting materials, and with chemical resistance equivalent to mortar/grout.

1 Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
   a Atlas Minerals & Chemicals, Inc.

2.06 MISCELLANEOUS MATERIALS

A Metal Edge Strips: Angle or L-shape, height to match tile and setting-bed thickness, metallic or combination of metal and PVC or neoprene base, designed specifically for flooring applications; stainless-steel, ASTM A 666, 300 Series exposed-edge material.

B Temporary Protective Coating: Either product indicated below that is formulated to protect exposed surfaces of tile against adherence of mortar and grout; compatible with tile, mortar,
and grout products; and easily removable after grouting is completed without damaging grout or tile.

1 Grout release in form of manufacturer's standard proprietary liquid coating that is specially formulated and recommended for use as temporary protective coating for tile.

C Tile Cleaner: A neutral cleaner capable of removing soil and residue without harming tile and grout surfaces, specifically approved for materials and installations indicated by tile and grout manufacturers.

D Grout Sealer: Manufacturer's standard silicone product for sealing grout joints and that does not change color or appearance of grout.

1 Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to, the following:
   a Bonsal American; an Oldcastle company; Grout Sealer.
   b Bostik, Inc.; CeramaSeal Grout & Tile Sealer Siloxane 220.
   c C-Cure; Penetrating Sealer 978.
   d Custom Building Products; Surfaceguard Grout Sealer.
   e Jamo Inc.; Penetrating Sealer.
   f MAPEI Corporation; KER 003, Silicone Spray Sealer for Cementitious Tile Grout 004, Keraseal Penetrating Sealer for Unglazed Grout and Tile.
   g Southern Grouts & Mortars, Inc.; Silicone Grout Sealer.
   i TEC; a subsidiary of H. B. Fuller Company; TA-256 Penetrating Silicone TA-257 Silicone Grout Sealer.

2.07 MIXING MORTARS AND GROUT

A Mix mortars and grouts to comply with referenced standards and mortar and grout manufacturers' written instructions.

B Add materials, water, and additives in accurate proportions.

C Obtain and use type of mixing equipment, mixer speeds, mixing containers, mixing time, and other procedures to produce mortars and grouts of uniform quality with optimum performance characteristics for installations indicated.

PART 3 EXECUTION

3.01 EXAMINATION

A Examine substrates, areas, and conditions where tile will be installed, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of installed tile.

1 Verify that substrates for setting tile are firm, dry, clean, free of coatings that are incompatible with tile-setting materials including curing compounds and other substances that contain soap, wax, oil, or silicone; and comply with flatness tolerances required by ANSI A108.01 for installations indicated.

   a Verify that surfaces that received a steel trowel finish have been mechanically scarified.

   b Verify that protrusions, bumps, and ridges have been removed by sanding or grinding.
2 Verify that installation of grounds, anchors, recessed frames, electrical and mechanical units of work, and similar items located in or behind tile has been completed.

3 Verify that joints and cracks in tile substrates are coordinated with tile joint locations; if not coordinated, adjust joint locations in consultation with Architect.

B Proceed with installation only after unsatisfactory conditions have been corrected.

3.02 PREPARATION

A Fill cracks, holes, and depressions in concrete substrates for tile floors installed with adhesives or thin-set mortar with trowelable leveling and patching compound specifically recommended by tile-setting material manufacturer.

B Where indicated, prepare substrates to receive waterproofing by applying a reinforced mortar bed that complies with ANSI A108.1A and is sloped 1/4 inch per foot toward drains.

C Blending: For tile exhibiting color variations, verify that tile has been factory blended and packaged so tile units taken from one package show same range of colors as those taken from other packages and match approved Samples. If not factory blended, either return to manufacturer or blend tiles at Project site before installing.

D Field-Applied Temporary Protective Coating: If indicated under tile type or needed to prevent grout from staining or adhering to exposed tile surfaces, precoat them with continuous film of temporary protective coating, taking care not to coat unexposed tile surfaces.

3.03 TILE INSTALLATION

A Comply with TCA’s "Handbook for Ceramic Tile Installation" for TCA installation methods specified in tile installation schedules. Comply with parts of the ANSI A108 Series "Specifications for Installation of Ceramic Tile" that are referenced in TCA installation methods, specified in tile installation schedules, and apply to types of setting and grouting materials used.

B For the following installations, follow procedures in the ANSI A108 Series of tile installation standards for providing 95 percent mortar coverage:

1 Tile floors composed of tiles 8 by 8 inches or larger.

C Extend tile work into recesses and under or behind equipment and fixtures to form complete covering without interruptions unless otherwise indicated. Terminate work neatly at obstructions, edges, and corners without disrupting pattern or joint alignments.

D Accurately form intersections and returns. Perform cutting and drilling of tile without marring visible surfaces. Carefully grind cut edges of tile abutting trim, finish, or built-in items for straight aligned joints. Fit tile closely to electrical outlets, piping, fixtures, and other penetrations so plates, collars, or covers overlap tile.

E Jointing Pattern: Lay tile in grid pattern unless otherwise indicated. Lay out tile work and center tile fields in both directions in each space or on each wall area. Lay out tile work to minimize the use of pieces that are less than half of a tile. Provide uniform joint widths unless otherwise indicated.

1 Where adjoining tiles on floor, base, walls, or trim are specified or indicated to be same size, align joints.

2 Where tiles are specified or indicated to be whole integer multiples of adjoining tiles on floor, base, walls, or trim, align joints unless otherwise indicated.

F Joint Widths: Unless otherwise indicated, install tile with the following joint widths:
1 Ceramic Wall Tile: 1/16 inch.

G Lay out tile wainscots to dimensions indicated or to next full tile beyond dimensions indicated.

H Expansion Joints: Provide expansion joints and other sealant-filled joints, including control, contraction, and isolation joints, where indicated. Form joints during installation of setting materials, mortar beds, and tile. Do not saw-cut joints after installing tiles.

1 Prepare joints and apply sealants to comply with requirements in Division 7 Section "Joint Sealants."

I Metal Edge Strips: Install at locations indicated, where exposed edge of tile flooring meets carpet, wood, or other flooring that finishes flush with top of tile or where exposed edge of tile flooring meets carpet, wood, or other flooring that finishes flush with or below top of tile and no threshold is indicated.

3.04 CLEANING AND PROTECTING

A Cleaning: On completion of placement and grouting, clean all ceramic tile surfaces so they are free of foreign matter.

1 Remove latex-portland cement grout residue from tile as soon as possible.

2 Clean grout smears and haze from tile according to tile and grout manufacturer's written instructions but no sooner than 10 days after installation. Use only cleaners recommended by tile and grout manufacturers and only after determining that cleaners are safe to use by testing on samples of tile and other surfaces to be cleaned. Protect metal surfaces and plumbing fixtures from effects of cleaning. Flush surfaces with clean water before and after cleaning.

3 Remove temporary protective coating by method recommended by coating manufacturer and that is acceptable to tile and grout manufacturer. Trap and remove coating to prevent drain clogging.

B Protect installed tile work with kraft paper or other heavy covering during construction period to prevent staining, damage, and wear. If recommended by tile manufacturer, apply coat of neutral protective cleaner to completed tile walls and floors.

C Prohibit foot and wheel traffic from tiled floors for at least seven days after grouting is completed.

D Before final inspection, remove protective coverings and rinse neutral protective cleaner from tile surfaces.

3.05 INTERIOR TILE INSTALLATION SCHEDULE

A Interior Wall Installations, Metal Studs or Furring:

1 Tile Installation W244: Thin-set mortar on cementitious backer units or fiber cement underlayment over cleavage membrane; TCA W244.

a Tile Type: WT1.

b Thin-Set Mortar: Latex- portland cement mortar.

c Grout: Polymer-modified unsanded grout.

END OF SECTION 093013
PART 1 GENERAL

1.01 SUBMITTALS
   A Product Specification
   B Specification for Adhesive
   C Floor Layouts
   D Samples
   E Schedule
   F Qualifications for Installer

1.02 CLOSEOUT SUBMITTALS
   A Maintenance Instructions
   B Warranty

1.03 QUALITY ASSURANCE
   A Environmental: FloorScore® Certified
   B Installer Qualifications: Installer who has been trained in the installation of resilient sheet flooring.
   C Mockups: Install 100 sf of product at designated location for architect review and approval.

1.04 MATERIAL STORAGE AND HANDLING
   A Store tiles on a flat surface and squarely on top of one another.
   B Store away from vents and direct sunlight.
   C When palletizing, first place a 5/8” or thicker plywood on the pallet. Stack 2 rows high side by side
     with no airspace between. Then quarter turn for 2 rows side by side. Do not exceed 12 boxes
     high. If you are stacking pallets, use a 1” thick plywood in between pallets.
   D Store in protected dry conditions between 65 and 85 degrees.

1.05 SITE CONDITIONS
   A The permanent HVAC system must be on for 7 days prior to, during and after installation between
     65 and 85 degrees Fahrenheit.
   B Material and adhesive must be acclimated to the installation area for a minimum of 48 hours prior
     to installation.

PART 2 PRODUCTS

2.01 TESTING REQUIREMENTS
   A Slip Resistance ASTM D2047: ADA Compliant
   B Static Load Limit ASTM F970: 1500 psi
   C Residual Indentation F1914: passes, 8%
   D Flexibility ASTM F137: Passes
   E Resistance to Heat ASTM F1514: Passes
   F Resistance to Light ASTM F1515: Passes
   G Resistance to Chemicals ASTM F925: Passes
   H Radiant Flux ASTM E648: / 0.45 W/sq. cm., Class I
   I Smoke Density ASTM E662: Passes, <450

2.02 RESILIENT TILE
   A Manufacturer: Shaw Contract
B Product: Cast 5mm 4098V
C Construction: Heavy Commercial Luxury Vinyl Tile
D Class ASTM F1700: Class III, Type B
E Wear-layer Thickness: 20 mil
F Overall Thickness: 0.197 inches
G Nominal Dimensions: 24 in w x 24 in l
H Finish: ExoGuard+™
I Backing Class: Commercial Grade
J Installation: Direct Glue

2.03 INSTALLATION MATERIALS
A Adhesives:
   1 Shaw 4200 spreadable 99% RH

PART 3 EXECUTION

3.01 EXAMINATION
A Examine substrates, with Installer present, for compliance with requirements for maximum moisture content, pH, smoothness and level.
B Proceed with installation after any unsatisfactory conditions have been corrected.

3.02 PREPARATION
A Concrete substrates should be tested for Internal Relative Humidity according to ASTM F 2170 and must not exceed 90% RH.
B The PH of the concrete sub-floor must be between 7 and 10.
C 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.'
D Concrete floors shall be flat and smooth within 1/8" in 6 feet or 3/16" in 10 feet.

3.03 INSTALLATION
A LAYOUT AND INSTALLATION
   1 Install using conventional tile and plank installation techniques. Plank products should have a minimum of 6 to 8" seam stagger.
   2 Center rooms and hallways so borders are not less than half of a tile or plank.
   3 Work out of multiple boxes at the same time.
   4 In hallways and small spaces, work lengthwise from one end.
   5 Ensure cut edges are always against the wall.
   6 To cut products, score the top side of the material with a utility knife. Bend the product and finish the cut through the back side. It may be necessary to use a heat gun to cut around vertical obstructions. Allow the heated product to return to room temperature before installation.
   7 If you cut the product into a fine point, it may delaminate. Use an ethyl cyanoacrylate-based super glue to fuse the points together. Clean all glue from the top surface immediately. Alcohol-based super glues may cause the vinyl to swell.
   8 Roll the plank or tile with a 3-section 100 lb. roller. Re-roll the floor within the working time of the adhesive. Continue to roll the floor throughout the working day to ensure a proper bond.

B MAINTENANCE
   1 Initial Maintenance
a  Sweep, vacuum or dust mop to remove dirt and grit.

2  Routine Maintenance
   a  Sweep, vacuum or dust mop to remove dirt and grit.
   b  Add neutral pH cleaner to cool water following the manufacturer’s instructions.
   c  As needed, scrub with a low-rpm machine or auto scrubber to retain appearance. Use a red (light scrubbing) pad and neutral cleaner following the manufacturer’s instructions.

3  Full maintenance instructions will be provided by the manufacturer.

END OF SECTION 096519