RODD HANSEN, ARCHITECT, L.L.C.
ARCHITECTURE AND PLANNING



Date: April 18, 2025

To: All Prime Bidders

RE: Pleasant Hill School District
Library Remodel

ADDENDUM #1:

YOU ARE HEREBY DIRECTED TO PERFORM THE FOLLOWING WORK AND INCLUDE THE FOLLOWING WORK IN YOUR BID.

Item #1: The Pre-Bid attendance sheet is included herein.

Item #2: The ceiling tile does not contain asbestos, per the District's AHERA report – see attached.

Item #3: The glazing compound around the existing windows does not contain asbestos, per the District's AHERA report.

Item #4: The District shall have all books and remaining District property removed by June 2, 2025.

Item #5: The District will be self performing the carpet removal. This work shall be completed by June 11, 2025

Item #6: See the attached specification for the carpet tile.

Item #7: The ¼" hardboard beneath windows 114A-E shall be removed. Remain gypsum board shall be repaired / textured / primed / painted per room schedule.

Item #8: See the attached specification for the walk-off mat area. Transitions between walk-off mat and carpet tiles are not required.

Item #9: Room 112: Contractor shall build and temporary protection wall (2x4 with plywood), protecting the computer / server equipment. The District will need access to the equipment. Dust control shall be provided by the District.

Item #10: All furniture shown in the plans shall be provided by the District. Casework shall be supplied and installed by the Contractor.

Item #11: Exterior painting: The scope of work shall include priming and painting any / all new siding / trim / materials supplied to complete the scope of work. The intent is not to paint the entire exterior.

Item #12: Sheet A10.1: Drawing 1 - Keynote #4 should not reference the clerestory windows. These windows are included in the scope of work.

Item #13: All new window groups shall have (2) 2x6 studs between rough openings.

Item #14: All new casework / bookshelves shall be adjustable.

Item #15: Below are the approved light fixture substitutions:

Type A series: Ledalite SL1 940 Series
Type B: Lightolier S10R9
Type C: Finelite HP-6 series
Type EM: Evenlite Telesis TCS series
Type F: Lutron C Flex series

Lighting Control System
Lutron Vive

END OF ADDENDUM #1

RODD HANSEN, ARCHITECT, L.L.C.
ARCHITECTURE AND PLANNING

PROJECT: Pleasant Hill School District
Library Remodel

DATE/TIME: Tuesday, April 8, 2025; 3:30pm PDT

PRE-BID WALK-THROUGH

COMPANY	ADDRESS	TELEPHONE	FAX	EMAIL
Bridgeway Contracting	PO Box 246, Lowell	541-606-2571	541-937-2491	
Hathaway's	NW 5 Place Ave	541-653-0022		REVIND@HATHAWAYSINC.
Home Comfort	95 Fern	541-521-[illegible]		Steve@homecomfort.com
Johnsen Electric	36840 Wallace Creek RD.	541-505-9457	541-515-6199	Johnsenelectric@GMAIL.COM
ORDELL CONSTRUCTION	29771 E. ENID RD EUGENE, OR 97402	(541) 747-8734		BIDS @ ORDELLCONSTRUCTION.COM
GBC CONSTRUCTION		541-224-1501		JOEL@GBCCONSTRUCT.COM
~~Brad~~ Proper Built	3990 Kathryn Ave Unit B Springfield	541-953-5822		Brad@properbuilt.net

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ARCHITECTURE AND PLANNING

PROJECT: Pleasant Hill School District
Library Remodel

DATE/TIME: Tuesday, April 8, 2025; 3:30pm PDT

PRE-BID WALK-THROUGH

COMPANY	ADDRESS	TELEPHONE	FAX	EMAIL
Gerding Builders	200 SW Airport Rd Corvallis OR 97339	541-243-4876		JorgeJh@gerdingbuilders.com
DSL Builders	195 Pine St. NE Salem, OR 97301	458-324-1095		KyleK@DSL-Builders.com
Peter Hengel	2877 Chad dr. Eugene, OR 97404	503-260-2564		peter.hengel@oeg.us.com
Phillip M				
M&S G.C. LLC	1855 Commercial st. S. Salem Or	503)990 3458		Phillip@mandsgc.net

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ARCHITECTURE AND PLANNING

PROJECT: Pleasant Hill School District
Library Remodel

DATE/TIME: Tuesday, April 8, 2025; 3:30pm PDT

PRE-BID WALK-THROUGH

COMPANY	ADDRESS	TELEPHONE	FAX	EMAIL
RossBuilders NW		971 268 0812		Bids@RossBuildersNW.com
ESSEX GENERAL CONSTRUCTION		541-729-4937		BIDS @ ESSEXGC.COM
HATHAWAYS		541 736 8041		keithb@hathawaysinc.com
2G CONSTRUCTION	1714 IRVING RD EUGENE 97402	541-729-5092		EZAPATA@2GCONSTRUCTION.COM
ATEZ INC	28622 Highway Heaburg	971 541-995 6005 OR		david@atezinc.com

Code	Material	Location	Results	Lab
52451.000-0070	Carpet Mastic/Vinyl Floor Tile/Mastic	Library, near MDF room, concealed under carpet		NVL Labs, Inc.
		Layer:	**Description:**	**Analysis:**
		Layer 1	Green vinyl tile	No Asbestos Detected
		Layer 2	Tan firm mastic	No Asbestos Detected
		Layer 3	Black asphaltic material	5% Chrysotile
52451.000-0071	Covebase/Mastic	Library work room, north wall		NVL Labs, Inc.
		Layer:	**Description:**	**Analysis:**
		Layer 1	Brown rubbery material with paint	No Asbestos Detected
		Layer 2	Brown brittle mastic	No Asbestos Detected
52451.000-0072	Glued-on Ceiling Tiles/Gypsum Board	Library, stacks area ceiling		NVL Labs, Inc.
		Layer:	**Description:**	**Analysis:**
		Layer 1	Tan compressed fibrous material with paint	No Asbestos Detected
		Layer 2	Brown brittle mastic	No Asbestos Detected
		Layer 3	White chalky material with paper	No Asbestos Detected
52451.000-0073	Gypsum Wallboard/Joint Compound	Library, AV storage room, south wall		NVL Labs, Inc.
		Layer:	**Description:**	**Analysis:**
		Layer 1	White compacted powdery material with paint	3% Chrysotile
		Layer 2	White chalky material with paper	No Asbestos Detected
		Layer 3	White compacted powdery material with paint	3% Chrysotile
52451.000-0074	Gypsum Wallboard/Joint Compound	Library, stacks area, west wall		NVL Labs, Inc.
		Layer:	**Description:**	**Analysis:**
		Layer 1	White compacted powdery material with paint	2% Chrysotile
		Layer 2	White chalky material with paper	No Asbestos Detected
		Layer 3	White compacted powdery material with paint	2% Chrysotile

Part A - GENERAL

1. SUMMARY DEFINITION

a. Modular tile carpeting for use in facilities shall be a high-performance, branded 100% Type 6 or 6,6 nylon. Mill extruded nylons will not be accepted. Carpet shall be tufted and have a manufacturer's PVC-free cushion backing system which provides a non-permanent installation application, using a nonreactive or high moisture, releasable adhesive, meeting or exceeding requirements for certification according to the CRI Green Label Plus IAQ Test Program. Carpet tile shall be recyclable meeting USGBC LEED Rating System requirements and shall have third party certification.

2. APPLICATION

a. Intended Use:
   i. This Design Criteria shall be used in determining and specifying tile carpeting, LVT and entry system at all facilities. It is intended to be an all-inclusive specification in and of itself, in that, it is specifying tools such as MasterSpec. All products must meet or exceed design intent specification.

3. SELECTION CRITERIA

a. Industry Standards and Tests
   i. Americans with Disabilities Act (ADA): Section 4.5.3. Accessibility Guidelines for Building & Facilities
   ii. American Association of Textile Chemists and Colors (AATCC): 16, Option E Colorfastness of Light; 165 Colorfastness to Crocking, Carpets AATCC Crock Meter Method.
   iii. Aachener Test: Dimensional Stability (DIN Standard 54318 175 Stain Resistance; Pile Floor Covering
   iv. American Society for Testing and Materials (ASTM) D 2859 Flammability of Finished Textile Floor Covering Materials. E 648 Critical Radiant Flux of Floor Covering System Using a Radiant Heat Energy Source (NFPA 253) E662 Specific Optical Density of Smoke Generated by Solid Materials (NFPA 258)
   v. Consumer Product Safety Commission (CPSC): FF-1-7 Methenamine Pill Test.

b. Sustainable Compliance: Preference goes to carpet tile manufacturers who operate a carpet tile-recycling program for 100% of the carpet product (at the end of its useful life). Third party certification shall be required.
   i. NSF/ANSI-140 Platinum: All carpet products installed shall be certified to meet the NSF/ANSI-140 standard at the Platinum certification level.
   ii. For carpet tile, documentation indicating compliance with testing and product requirements of CRI's "Green Label Plus" program.

iii. Carpet must be free from LBC Red List ingredients at 100 ppm;
iv. Red List Free must be 3rd party verified and publicly available through LBC Declare Labels;
v. Product must be Cradle to Cradle 3.1 Silver or higher-level certification;
vi. For installation adhesive, documentation including printed statement of VOC content of 50 g/L or less, as per SCAQMD Rule #1168.

4. SUBMITTALS

a. Shop Drawings and Product Data Sheets: Submit for all products proposed for use, describing physical characteristics, sizes, patterns, colors available, type of subfloor, and method of installation.
b. Test Reports: Provide certified test reports, prepared by an independent testing laboratory, showing conformance to specified performance standards. Test results shall represent average results for production goods, and shall not be over two years old.
c. Samples: Full size samples shall be required for each type of tile carpeting specified.
d. Maintenance Data: Submit manufacturers recommend cleaning and maintenance data. Include maintenance procedures, recommended maintenance materials, and suggested schedule for cleaning.
e. Recycled Content Percentage Submittals
    i. Submit a statement signed by the manufacturer's Executive Officer or independent certification third-party that the provided carpet materials have the specified recycled material percentage.
f. Submit documentation of manufacturer's take-back program for carpet. Including:
    i. Confirmation that the new carpet being installed will be accepted (at the point of future replacement) through a manufacturer's operated program for recycling or reuse;
    ii. Written description of such a process for the recycling and/or recovery of used/worn products;
    iii. Contact information for the take-back program.
g. Existing Carpet Recycling Plan and Recycling Certification
    i. Submit documentation describing the reclamation plan for existing carpet. Include appropriate contact information, overview of procedures, and limitations and conditions applicable to the project Carpet recycling options consist of:
        1. Repurposing - reusing the product in another application such as facilitating the donation of used carpeting to charities and other nonprofit organizations.
        2. Closed Loop Recycling - turning waste materials into new materials of the same value, such as vinyl backing into vinyl backing and nylon yarn into nylon carpet yarn.
        3. Open Loop Recycling – creating other product types from reclaimed carpet. For example, turning nylon face fiber into automotive parts or carpet padding, including nylon face fiber in recycled backings

4. Waste-to-Energy - using carpet for waste-to-energy. In the case of waste-to-energy, manufacturer shall justify why carpet cannot be recycled as this method should be a last resort.
5. Landfill or incineration – are not approved disposal methods

ii. At the completion of the project, a certificate shall be furnished verifying the reclamation of the carpet and the pounds of material diverted from the landfill.

5. SUBSTITUTIONS

a. Proposed substitution, to be considered, shall be manufactured of equivalent materials that meet or exceed specified requirements. Substitutions shall be identified not less than 10 days prior to bid.

6. QUALITY ASSURANCE

a. **Contractor Qualifications:**
   i. Employ only experienced Contractors (Installers) skilled in the successful installation of the specified materials and accessories on similar projects for a minimum of five (5) years, acceptable to the carpet tile manufacturer in writing to Owner/Design firm.
   ii. Installer shall have documented experience with a formal lift system when applicable to the job.

b. **Manufacturer(s) Qualifications:**
   i. Utilize only manufacturers making the specified materials as a current and regular production item.
   ii. Manufacturer: Company specializing in carpet tile manufacturing with a minimum of ten continuous years of documented experience. Carpet manufacturing processes must be certified by a recognized ISO registrar to the current requirements of either the ***ISO 9001*** or ***ISO 9002*** standards for quality management systems as established by the International Organization for Standardization (1987), revised 1994).
   iii. Manufacturer to provide three (3) references of installations in similar facilities.

c. **Quality and Performance Testing:** Carpet shall comply with the following performance testing requirements:
   i. **CRI TARR Rating**: "Severe" or "Heavy" using ASTM D-5252 Hexapod Tumble Test. Value must be 3.0 or higher to ensure appearance retention in high traffic areas such as school classrooms (rating of 3.0) and corridors (rating of 3.0 – 3.5).
   ii. **Noise Reduction Coefficient, ASTM C423:** 0.20 minimum. 0.25 for LEED facility
   iii. **ASTM D 2859 or CPSC FF-1-70 Methenamine Pill Test**: Pass.
   iv. **Critical Radiant Flux Classification**: Not less than 0.45 W/sq. cm.
   v. **Dry Breaking Strength**: Not less than 100 lbf according to ASTM D 2646.

vi. **Dimensional Tolerance**: Within 1/32 inch of specified size dimensions, as determined by physical measurement.
vii. **Dimensional Stability:** 0.2% or less according to ISO 2551 (Aachen Test).
viii. **Colorfastness to Crocking:** Not less than 4, wet and dry, according to AATCC 165.
ix. **Electrostatic Propensity**: Less than 3.5 kV according to AATCC 134.
x. **ASTME 648, Critical Radiant Panel Flux Class I**, not less than 0.45 watts per square centimeter.
xi. **AATCC 16, Option E**: Minimum rating of 4 on grey scale after 80 hours exposure.
xii. **ASTM E 662 (NFPA 258):** Smoke density less than 450 optical density.
xiii. **AATCC 165**: Minimum rating of 4 wet and dry.
xiv. **AACHEN Test** (DIN Standard 54318): Dimensional stability 0.2% shrinkage or growth.

7. DELIVERY, STORAGE, HANDLING

a. Comply with CRI 104 Section 5 Storage and Handling.
   i. Deliver all material to the installation site in the manufacturer's original packaging. Packaging shall contain manufacturer's name, product color and pattern name, identification number, and other related information.
   ii. Carpet tiles shall be stored between **40° F** and **100° F** and shall be conditioned to between **60° F** and **90° F** for **48 hours** prior to installation.

8. PROJECT SITE CONDITIONS

a. Field Conditions**:**
   i. Comply with CRI's "CRI Carpet Installation Standard" for temperature, humidity, and ventilation limitations.
   ii. Environmental Limitations: Do not deliver or install carpet tiles until spaces are enclosed and weather tight, wet-work in spaces is complete and dry, and ambient temperature and humidity conditions are maintained at levels planned for building occupants.
   iii. Floor temperature should be 60 °F minimum for proper adhesive curing and performance.
   iv. If subfloor is contaminated with an oily residue either from removal of "cutback" during asbestos abatement or from a previous end use such as metal fabrication, this residue MUST be totally removed or covered prior to applying modular adhesive and carpet.
   v. Product is allowed to be installed over moisture stained concrete. Products not allowed to be installed over moisture stained concrete must be noted.

vi. Where demountable partitions or other items are indicated for installation on top of carpet tiles, install carpet tiles before installing these items.
vii. Requisite field conditions for Milliken Non-Reactive Standard Adhesive.
    1. No moisture testing is required.
    2. No pH testing is required.
    3. No visible water on the surface.
    4. Space, product and adhesive to be acclimatized to serviceable conditions.
    5. Floor prep must be performed in accordance with ASTM F 710-11 unless specifically allowed per manufacturer's installation instructions.
    6. All topical compounds must be removed prior to application of adhesive.
    7. Bond test is required with archived written and photo documentation, including any corrective action required.

b. Special Warranty for Milliken Non-Reactive Standard Adhesive: Manufacturer warrants that the Milliken Non-Reactive Standard Adhesive, when used with current Milliken modular carpet with WellBAC™ Comfort Plus or WellBAC™ Comfort backing systems, will form a bond that provides tack and resistance to lateral movement while allowing for the removal of the modular carpet in high moisture slab conditions with no limit on relative humidity as long as there is no visible water on the slab surface for the Lifetime of the original carpet installation in Commercial installations subject to meeting the following conditions:
    i. If the concrete slab is experiencing hydrostatic pressure, or the slab surface is visibly wet, the slab should be treated by some other method and is not covered by this warranty. Failures include, but are not limited to, the following: Efflorescence buildup; Adhesive Rewetting; Bond failure.
    ii. Milliken does not warrant against hydrostatic pressure, instances where water is forcibly pushed into the slab and/or moisture events caused by broken pipes. In such cases the warranty will be voided.

c. Warranty Period: Lifetime
    i. "Lifetime" is defined as the period of time that the original purchaser of the original carpet installed with the adhesive product chooses to keep the carpet on the floor at the original

installation site. Lifetime warranties only apply to adhesive product purchased after November 4, 2016.

d. Validation:
    i. The warranty only applies to use of the Milliken Non-Reactive Standard Adhesive product in carpet installations when bond testing, substrate preparation, adhesive application and carpet installation have all be performed in accordance with the requirements and instructions set forth on the product label, the product specification sheet, Milliken's then current published instructions for installation of modular carpet (which are specific for each carpet product), and the then current Carpet and Rug Institute publication CRI 104 (collectively, the "Documentation"). Furthermore, the carpet installation must be in an indoor commercial environment. The warranty shall not apply to:

        1. Installations on substrates that were not prepared as instructed in the Documentation;
        2. Installations where silicates or other sealers or curing additives have been used on the substrate;
        3. Installations over substrates where hydrostatic pressure exists;
        4. When the claimant does not have written and photographic documentation of the bond testing conducted prior to the installation;
        5. Installation failures due to outside sources of water;
        6. Installations taken up or replaced prior to inspection by authorized Milliken personnel;
        7. Installations with chemically cleaned substrates, where improper cleaning methods have been used, or where adhesive removed have been applied;
        8. Installations using incompatible curing compounds, mold release agents, or non-Portland cement based leveling or patch compounds;
        9. Failure of leveling or patch compounds of any kind;
        10. Damage caused by expansion joints or other structural areas;
        11. Structural failure, seismic action, discoloration, caustic solutions entering the system topically through joints;
        12. Where the adhesive product was allowed to freeze prior to use. In no event shall Milliken be liable for incidental or consequential damages, whether in contract, warranty, negligence, strict liability, or otherwise.

e. Examination:
    i. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements and installation tolerances.
    ii. Examine carpet tile for type, color, pattern, and potential defects.
    iii. Concrete Slabs: Verify that finishes comply with requirements specified in Section 033000 "Cast-in-Place Concrete" and that

surfaces are free of cracks, ridges, depressions, scale, and foreign deposits

1. All topical membrane forming concrete curing compounds must be removed.
2. Concrete subfloor must be structurally sound, clean, smooth, trowel finish (not burnished) and level. Cracks and holes in excess of 1/8" (3.2mm) should be filled with a Portland Cement based floor patching material such as W.W. Henry 547 Unipro™, DAP “Webcrete 98”, Maipei “PlaniPatch”, Ardex “Featherfinish” or similar. Gypsum based compounds are not recommended.
3. The only physical requirement for existing adhesive films is that they be scraped clean and dry. If additional smoothing is required and residual adhesive is black (cutback or asphalt emulsion) smoothing must be accomplished by applying a very thin layer of one of the above patching compounds.
4. If residual adhesive is not black, scrape or sand until smooth and non-tacky as required.
5. Protruding objects must be removed. Floor must be flat (not undulating) to within 1/4" in 12' (6.4mm across 3.66m) with no abrupt changes.
6. Durabond D250 is a recommended product should this type of treatment be deemed necessary; however, any non-silicone based sealer will work acceptably with non-PVC backings. This treatment is NOT intended to be a corrective for out of specification water vapor transmission levels.
7. When working with a Gyp-Crete or Gypsum subfloor, Milliken recommends sealing with a gypsum floor sealer prior to installation. Failure to do so will result in an unacceptable installation. Gyplock Sealer by Cornerstone Coatings International Inc. is a suitable sealant.

f. Preparation:
   i. Comply with CRI's "Carpet Installation Standards" and with carpet tile manufacturer's written installation instructions for preparing substrates indicated to receive carpet tile.
   ii. Concrete Substrates: Remove coatings, including curing compounds, and other substances that are incompatible with adhesives and that contain soap, wax, oil, or silicone, without

using solvents. Use mechanical methods recommended in writing by adhesive and carpet tile manufacturers.

iii. Broom and vacuum clean substrates to be covered immediately before installing carpet tile.

g. Installation:

i. Comply with CRI's "CRI Carpet Installation Standard," Section 18, "Modular Carpet" and with carpet tile manufacturer's written installation instructions.

ii. Installation Method: As recommended in writing by carpet tile manufacturer.

iii. Maintain dye-lot integrity. Do not mix dye lots in same area.

iv. Maintain pile-direction patterns recommended in writing by carpet tile manufacturer.

v. Cut and fit carpet tile to butt tightly to vertical surfaces, permanent fixtures, and built-in furniture including cabinets, pipes, outlets, edgings, thresholds, and nosings. Bind or seal cut edges as recommended by carpet tile manufacturer.

vi. Coverage rates for WellBAC™ Comfort Plus and WellBAC™ Comfort cushion back full spread for all tile sizes: 35-40 sq. yards per gallon (9.5-10 sq. meters per liter).

vii. In extreme environments, such as casinos and convention centers, which will routinely experience rolling loads in excess of 5,000 lbs., a heavier full spread of adhesive is recommended. Target coverage for this end use is 20-25 sq. yards per gallon (5-6 sq. meters per liter) for the Non-Reactive Standard product.

viii. ADHESIVE READINESS SHOULD BE VERIFIED AS FOLLOWS BEFORE BEGINNING INSTALLATION.

1. A bond test is a mock-up installation done prior to the general installation of the Modular Carpet tile to indicate whether the adhesive will bond satisfactorily to the substrate and floor covering. Bond testing will aid in identifying both the working characteristics of the adhesive, such as the appropriate open and working time for the site conditions, and also any potential bonding problems to the substrate.

h. Bond Test Procedure:

i. Select an approximately 7-foot square area (4 square meters) in a typical location on the substrate or slab. The floor should be prepped and consistent with the installation plan per Milliken Modular carpet installation instructions.

ii. Milliken modular carpet adhesives should be applied to the substrate for a releasable installation in the recommended manner (trowel, roller, or aerosol spray) and application rate. The adhesive should be allowed to dry completely prior to installation of modular carpet.

iii. Observe the adhesive drying time, which will vary with the floor porosity and ambient conditions. Properly dried adhesive will not transfer to the finger and will have a tacky feel.

iv. After placing the carpet tile on the dried adhesive apply downward pressure to assure contact with the substrate. Tiles

should be immediately locked in place inhibiting lateral movement.

v. After 24 hours, observe the mock-up installation to see if any obvious problems may exist. The modular carpet should be adequately bonded to the substrate, and inhibit lateral movement with adhesive remaining firmly bonded to the substrate. To test this attempt to slide each tile. Now lift each carpet tile and check backing for adhesive transfer. All adhesive should remain on the floor. There should be no adhesive transfer to the back of the tile.

vi. Document with photos that show floor prep, floor with adhesive, and back of tile upon tile removal after 24hr period.

vii. Testing should be conducted approximately 72 hrs. prior to installation.

viii. If installation covers multiple floors a bond test should be conducted on grade.

i. Protection:
   i. Perform the following operations immediately after installing carpet tile:
      1. Remove excess adhesive and other surface blemishes using cleaner recommended by carpet tile manufacturer.
      2. Remove yarns that protrude from carpet tile surface.
      3. Vacuum carpet tile using commercial machine with face-beater element.
      4. Protect installed carpet tile to comply with CRI's "Carpet Installation Standard," Section 20, "Protecting Indoor Installations." Do not use plastic, adhesive sheet.

9. WARRANTY

a. Project warranty shall be as stated in Division 01 of the Specifications.
b. Special Tile Carpeting Warranty: Written warranty, non-prorated, provided by carpet tile manufacturer agreeing remediate tile carpeting installation that fails in materials and workmanship within the specified warranty period.
c. Provide certified copies of the following manufacturer's product warranties.

1. Lifetime Face Fiber Wear
2. Lifetime Staining/Soiling Resistance
3. Lifetime Color Pattern Permanency
4. Lifetime Delamination of Backing
5. Lifetime Edge Ravel
6. Lifetime Tuft Bind
7. Lifetime Floor Compatibility
8. Lifetime Antistatic

9. Lifetime Flammability
10. Lifetime Cushion Resiliency
11. Lifetime Dimensional Stability
12. Lifetime Floor Release
13. Lifetime Moisture Resistance

B. Warranty shall be sole source responsibility of the manufacture. Second source warranties or warranties that involve parties' other than the manufacturer is unacceptable.
C. In case of multiple buildings where tile carpeting has been used, identify building name/number and pattern, pattern color, square yards used.
D. Installers Warranty: The Contractor (Installer) shall fully guarantee the installation against defects in workmanship, seaming and loss of adhesion to floor for a period of one (1) year from the date of Substantial Completion. Upon written notice, the Installer shall repair or replace the affected area at no cost.

10. EXTRA MATERIALS

a. Provide additional carpet tiles equal to 3% of each type, color and pattern furnished for use as maintenance stock.

Part 2 - PRODUCTS

1. MANUFACTURERS

a. All carpet tiles shall be products of one manufacturer, unless specifically indicated otherwise.
b. Shall be pre-approved by owner/owners 10 days prior to bid date
c. Manufacturer shall be currently involved in reuse technology including renewing and repatterning used product to eliminate waste sent to landfills.
d. Carpet shall conform to the CRI Indoor Air Quality Testing Program with specific product certification number. Manufacturer shall have a stated environmental policy and documented waste generation improvements

2. CARPET TILE COMPONENT CHARACTERISTICS (MINIMUM)

a. Manufacturer: Milliken
b. Product:
c. Construction: Tufted, Textured Loop
d. Fiber Content: 100% nylon Type 6 or 6,6
e. Fiber Type:
f. Dye Method: Digital or Solution dyed technology
g. Color and Pattern: Selected by Architect and approved by Owner.
h. Pile Density: 5400 minimums.
i. Gauge: 1/12" minimum.
j. Surface Pile Weight: 15 oz./sq. yd. minimum.
k. Stitches per Inch: 8.00" minimum.
l. Backing System: Manufacturer's standard PVC-Free open cell polyurethane cushion backing
m. Critical Radiant Flux Classification: Not less than 0.45 W/sq.cm.
n. Colorfastness to Crocking: Not less than 4, wet and dry, per AATCC-165, per AATCC-165.
o. Colorfastness to Light: Not less than 4 after 60 AFU (AATCC fading units) per AATCC-16.
p. Stain Resistance: AATCC-175, must pass Acid Red 40 spot test with an 8 or better.
q. TARR Rating: Severe Traffic End-Use Applications
r. Dimensional Stability: Aachen Method Din 54318, 0.2% or less per ISO 2551.
s. Smoke Density: < or = 450 flaming.
t. Static Generation: AATCC 134 w/neolite < or = 3.5KV at 20% r.h.
u. Flame-Spread and Flammability:
    i. Carpet flammability shall meet federal Flammability Standards CPSC FF 1-70, when tested in accordance with ASTM D2959-70T (Methenamine Pill Test).
v. Trowelable Leveling and Patching Compounds: Latex-modified, hydraulic-cement based formulation provided by carpet tile manufacturer.

w. Adhesives: Water-resistant, mildew-resistant, non-staining, pressure-sensitive type to suit products and subfloor conditions indicated, that complies with flammability requirements for installed carpet tile and recommended by carpet tile manufacturer for releasable installations.
x. Indoor Air Quality Control: Carpet tile and adhesive shall be CRI Green Label Plus certified by published class (product type) and certification number.
y. Water intake for Manufacturing and Finishing purposes must not exceed 1 gallon per square meter.

3. ACCESSORIES

a. Adhesive shall be manufacturer approved.
b. Subfloor filler: Ardex feather finish or other Portland cement based floor-patching compound.
c. Cove base: stated by owner
d. Transition strips: stated by owner

Part 3 - EXECUTION

1. EXAMINATION

a. Refer to section A part 8.

2. PREPARATION

a. Refer to section A part 8.

3. INSTALLATION PROCEDURES

a. Install carpet tiles and adhesive in accordance with manufacturer's installation instructions.
b. Carpet to be secured to the floor in compliance with Americans with disabilities **Act: (ADA), Section 4.5.3.**
c. Proper layout and planning must be completed prior to any application of adhesive or carpet tile.
d. Two working chalk lines must be applied to the floor to insure a straight, square properly aligned installation. These chalklines intersect at the starting point and are exactly **90°** to each other.
e. Begin installation using a pyramid technique and aligning the first tile at the intersection of the two chalk lines.
f. Always slide each module into position from the side to prevent trapped yarn. Set each module by firmly rubbing both joints.
g. Modules should be tight but not compressed. Peaking will occur when modules are too tight. Too loose an installation can slip and create obvious gap with use.
h. Arrows are embossed and printed on the back of each module indicating pile direction. All arrows shall run in the same direction.
i. A parallel of "scribe" cutting technique may be used when cutting the modules. Any method leading to a clean, properly sized cut is acceptable.
j. Cuts are most easily and cleanly done through the face of the module.
k. Provide unobstructed spaces for removing and replacing furniture and equipment in the installation area.
l. Remove coatings including curing compounds and other substances that are incompatible with adhesives.
m. Install tile carpeting and entry system tile using releasable installation method. Comply with CRI 104, Section 13, Carpet Modules Tile Provide rubber or metal tile carpeting transition divider strip/nosing between carpet tile and walk-off tile when total thickness of each material is not equal. Divider strip nosing and typed selected by Architect.
n. Where tile carpeting does not continue beyond a door to another room, extend carpet tile into door reveals so that carpet tile stops under door when door is in closed position.
o. Remove any adhesives, paint, or other products on the carpet immediately during carpet installation.

4. FIELD QUALITY CONTROL

a. Arrange for carpet manufacturer to provide field service specialist at commencement of installation to instruct installer in methods and to assure that project conditions are satisfactory.
b. Review CRI 104 for guidelines on **temperature, humidity, and ventilation** and on "Protecting Indoor Installations."
c. Do not install carpets over concrete slabs until slabs have cured and are sufficiently dry to bond with adhesive.

5. CLEANING

a. The tile carpeting and walk-off tile manufacturer shall provide instructions to designated the proper methods and procedures for cleaning tile carpeting material furnished utilizing the above method.
b. Tile carpeting and walk-off manufacturer may provide a representative to demonstrate cleaning and stain removal processes to maintenance personnel at: (1) 30 days prior to Substantial Completion; (2) at 6 months from date of Substantial Completion and; (3) 11 months from date of Substantial Completion.
c. Remove excess adhesive from floor, base and wall surfaces without damage.
d. Clean floor and base surfaces in accordance with manufacturer's instructions.
e. A commercial upright vacuum with a beater brush approved under the CRI Seal of Approval Green Label program is recommended for vacuuming of all carpet. For a list of approved vacuums visit www.carpet-rug.org.

6. PROTECTION DURING CONSTRUCTION

a. Protect tile carpeting against damage from construction operations and placement of equipment and fixtures during remainder of construction period as recommended by manufacturer and as required by CRI 104, Section 15, Protection of Indoor Installations. Do not use plastic, adhesive sheet.

GUIDE SPECIFICATIONS FOR MILLIKEN OBEX™ TILES

This is an editable document for preparing project specifications for OBEX™ Tile

How to use this Guide Specification

This is and "edit-out" document. Select appropriate text based on the project requirements and delete (edit-out) all other text.

- Specifier notes are shown in blue, e.g. Specifier Notes
- Locations where language for project specific requirements is required to be inserted or selected are indicated as [insert] or [select text].
- Remove Editor Notes and any unused optional text in the final version of the specification document.

GUIDE SPECIFICATIONS FOR

PART 1 GENERAL

1.01 SUMMARY

A. Section includes: Entrance Matting systems, including modular tile entrance systems
B. Related Sections: Section 123 48 16 Entrance Floor Grilles

1.02 REFERENCES

A. ASTM International:
    1. E 648 Standard Test Method for Critical Radiant Flux of Flooring Systems using a Radiant Energy Source
    2. E 662 Standard Test Method for Specific Density of Smoke Generated by Solid Materials
    3. D 2047 Standard Test Method for Static Coefficient of Friction measured by the James Machine
B. American Association of Textile Chemists and Colors (AATC)
    1. Colorfastness to Light - AATCC 16, Option E: Minimum rating of 4 on grey scale after 80 hours exposure.
    2. Colorfastness to Crocking AATCC 165: Minimum rating of 4 wet and dry.
    3. Static Resistance: carpet construction to provide a minimum of 3.0 KV resistance for 20% R. H. at 70 degrees, AATCC 134.
C. The Carpet and Rug Institute (CRI)
D. The National Floor Safety Institute (NFSI)
E. American with Disabilities Act (ADA)

1.03 SUBMITTALS

A. Product Data: Submit product data, including manufacturer's specification summary sheet for specified products
B. Manufacturers Certifications:
    1. Provide manufacturer's factory location for the specified product(s)
    2. Provide ISO 9001 certification
    3. Provide ISO 14001 certification
    4. Provide OSHAS 18001 certification
C. Shop Drawings: Submit shop drawings showing layout, seaming diagram, finish colors, designs and textures
D. Samples: Submit 6" selection and verification samples for finishes, colors, designs and textures
E. Quality Assurance Submittals: Submit the following:
    1. Test Reports: Certified test reports showing compliance with specified performance characteristics and physical properties

F. Submit the following:
   A. Maintenance Data: Maintenance data for installed products in accordance with Division 1 sections. Include methods for maintaining installed products, and precautions against cleaning materials and methods detrimental to finishes and performance
   B. Warranty: Provide manufacturer's written warranty

1.04 QUALITY ASSURANCE

A. Manufacturer Qualifications:
   i. ISO 9001 Certified
   ii. ISO 14001 Certified
   iii. OHSAS 18001 Certified
   iv. At least ten years' active experience in the manufacture and marketing of commercial flooring
B. Installer Qualifications:
   i. Installer Qualifications: Installer experienced in performing work of this section who has specialized in installing work similar to that required for this project
   ii. At least five years' experience in the installation of entrance flooring
   iii. Experience on at least five projects of similar size, type and complexity of current project
   iv. Employer of tradesmen for current project who are competent in techniques required by manufacturer for entrance flooring installation indicated
C. Pre-Installation Meetings: Conduct pre-installing meeting to confirm project requirements, substrate conditions, manufacturer's installation instructions and warranty requirements comply with requirements in Division 1

1.05 DELIVERY, STORAGE AND HANDLING

A. General: Comply with requirements in Division 1
B. Ordering: Comply with manufacturer's ordering and lead-time requirements to avoid construction delays
C. Delivery: Deliver materials in manufacturer's original, unopened, undamaged containers with identification labels intact
D. Storage and Protection: Material shall be stored in areas that are enclosed and weather tight and at temperature recommended by manufacturer to protect from exposure to harmful weather conditions prior to commencement of installation

1.06 PROJECT CONDITIONS

A. Environmental Requirements/Conditions: In accordance with manufacturer's recommendations, areas to receive floor covering shall be clean, fully enclosed and weather tight.

B. The temperature of the space shall be kept at a manufacturer's recommendation continually after installation. The entrance flooring material and adhesive shall be conditioned in the same manner. Existing Conditions: (specify existing conditions affecting product use and installation)

1.07 SEQUENCING AND SCHEDULING

A. Finishing operations: Install entrance flooring after finishing operations; including painting and ceiling operations have been completed

B. Concrete curing and drying: Do not install floor covering over concrete substrates until substrates have cured and are dry.

1.08 WARRANTY

A. Manufacturer's Materials Warranty: Submit, for owner's acceptance, manufacturer's standard warranty document

B. Manufacturer's warranty is in addition to, and not a limitation of, other rights owner may have under Contract Documents.

1. Total Warranty Period: 5-year Wear Warranty commencing on the date of substantial completion.
2. For materials: 1-Year Warranty on Manufacturing Defects from date of substantial completion.

1.09 MAINTENANCE

A. Extra materials: Deliver to the owner extra materials as the products to be installed. Package products with protective covering or in original cartons and identify with descriptive labels. Comply with Division 1 Closeout Submittals (maintenance materials) Section

1. Quantity: Furnish quantity of floor covering material equal to 5% of the amount to be installed
2. Delivery, Storage and Protection: Comply with the owner's requirements for delivery, storage and protection of extra materials

B. Maintenance of entrance flooring shall be according to Milliken maintenance instructions

PART 2 PRODUCTS

2.1 COMMERCIAL MODULAR TILE ENTRANCE SYSTEMS

Specifier note: Retain article below for proprietary method specification. Add product attributes performance characteristics, material standards and descriptions as applicable. Use of such phrases as "Or Equal" or "Or Approved Equal" or similar phrases may cause ambiguity in specifications. Such phrases require verification (procedural, legal, and regulatory) and assignment of responsibility for determining "Or Equal" products.

Specifier Note: Select specific Milliken OBEX™ Tile material description where indicated. List of all Milliken OBEX Tile materials included herein.

A. Basis-of-Design Manufacturer: Subject to compliance with requirements, provide Milliken OBEX Tiles

OBEX™ Tile [Insert material] a 50cm x 50cm modular entrance tile with an attached polyurethane PVC free cushion backing, open tufted cut pile construction using 100% nylon multi and monofilament, type 6, and 6,6.

Specifier note: Select one of the following 3 paragraphs to address consideration of additional manufacturers.

If no substitutions will be accepted:

B. Substitution Limitations:

i. No Substitutions

If products from other manufacturers will be considered, insert the manufacturers name and the product name/style number

B. Other Manufacturers: Subject to compliance with all the requirements of this specification, provide products by one of the following:

1. [insert flooring manufacturer name, product name and style number]

If other manufacturers are allowed to submit requests for approval prior to bid:

B. Substitution Limitations:

i. All other manufacturers: Submit formal substitution request prior to bid in accordance with Division 01 General Requirements, section 01 25 00 – "Substitution Procedures"

ii. Approval by Architect of other manufacturers does not relieve Contractor of responsibility to provide products which comply with all requirements of this specification

C. Product Description: Modular Tile Entrance Systems

i. Tile Size: Not less than 19.69 inches (50cm)

ii. Textile Yarn Type: Nylon and Monofilament, Type 6 and 6,6

iii. Indoor Air Quality: CRI Green Label Plus™

iv. Backing: PVC-Free Polyurethane Cushion backing, available with adhesive free TractionBack backing option

vii. Pattern and Color: As selected from Milliken OBEX Tile standard patterns and colors referenced below:

Proprietary Product(s): Milliken OBEX Tiles (select one)

1. OBEX Tile – CutX:

a. Classification: Modular Tile Entrance Systems
b. Form: Modular Tile
c. Thickness: 0.50 inches (13mm)
d. Tile Size: 19.69 x 19.69 inches (50cm x 50cm)
e. Textile Construction: Tufted, Cut Pile
f. Textile Yarn Type: Milliken – Certified WearOn® Nylon and Monofilament Type 6,6 and 6.
g. Tufted Face Weight: 24 oz/yd² (814g/m²)
h. Tile Backing: PVC-Free WellBAC™ Comfort Plus Cushion (Available with TractionBack® adhesive free backing system)
i. Manufacturer's warranty period: 5-Year Wear Warranty and 1-Year Manufacturing Defect Warranty commencing on date of substantial completion

2. OBEX Tile – Cut:

a. Classification: Modular Tile Entrance Systems
b. Form: Modular Tile
c. Thickness: 0.50 inches (13mm)
d. Tile Size: 19.69 x 19.69 inches (50cm x 50cm)
e. Textile Construction: Tufted, Cut Pile
f. Textile Yarn Type: Milliken – Certified WearOn® Nylon and Monofilament Type 6,6 and 6.
g. Tufted Face Weight: 28 oz/yd² (814g/m²)
h. Tile Backing: PVC-Free WellBAC™ Comfort Plus Cushion (Available with TractionBack® adhesive free backing system)
i. Manufacturer's warranty period: 5-Year Wear Warranty and 1-Year Manufacturing Defect Warranty commencing on date of substantial completion

3. OBEX Tile – Loop:

a. Classification: Modular Tile Entrance Systems
b. Form: Modular Tile
c. Thickness: 0.39 inches (10mm)
d. Tile Size: 19.69 x 19.69 inches (50cm x 50cm)
e. Textile Construction: Tufted, Multi-Level Loop
f. Textile Yarn Type: ECONYL® Solution-Dyed Nylon type 6 and Solution-Dyed Nylon Monofilament.
g. Tufted Face Weight: 27.9 oz/yd² (946g/m²)
h. Tile Backing: PVC-Free WellBAC™ Comfort Cushion (Available with TractionBack® adhesive free backing system)
i. Manufacturer's warranty period: 5-Year Wear Warranty and 1-Year Manufacturing Defect Warranty commencing on date of substantial completion

D. Finishing:

a) Recessed or wall to wall Applications: In a recessed instillation, no edge or finishing pieces needed. Cut to fit and install with standard pressure sensitive adhesive or with TractionBack® adhesive free backing system.
b) Surface Mount Applications: All four sides of surface instillation will need to be finished with standard carpet reducer or edge-guard. Suggested edge-guard manufactures, Tarkett or Roppe.

PART 3 EXECUTION

3.01 MANUFACTURER'S INSTRUCTIONS

A. Compliance: Comply with manufacturer's requirements as published in Milliken published Instillation Instructions.
B. Specify Recessed or Surface Mount and length and width measurements for each application to ensure you receive correct finishing components.

3.02 EXAMINATION

A. Site verification of conditions: Confirm substrate conditions are acceptable for product installation in accordance with manufacturer's instructions
B. Material inspection: In accordance with manufacturer's installation requirements, visually inspect materials prior to installing and during installation, if visual defect is noticed STOP WORK and contact manufacturer. Material with visual defects should not be installed
C. Other work, including overhead work, that could cause damage, dirt, dust, debris or otherwise interrupt installation has been completed or suspended

3.03 INSTALLING

A. Refer to Milliken OBEX Tile installation guide for detailed specifications on installing OBEX Tiles regarding job site conditions, substrate testing and preparation, layout and installing, clean up and protection of entrance flooring after installing.
B. Finish Entrance Flooring Designs: As selected by Architect, Designer or Owner

3.04 CLEANING

A. Cleaning: See Milliken OBEX Tile maintenance guide
B. Remove temporary coverings and protection of adjacent work areas
C. Repair or replace damaged installed products. Clean installed products in accordance with manufacturer's instructions prior to owner's acceptance
D. Remove construction debris from project site and legally dispose of

END OF SECTION

June 2019