NEWPORT-MESA UNIFIED SCHOOL DISTRICT
FLOORING REPLACEMENT AT 3 SITES

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STUDIO+
ARCHITECT

PROJECT NO: CA21000.04
NMUSD FLOORING REPLACEMENT AT 3 SITES

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PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:
   1. Thermoplastic-rubber base.
   2. Rubber molding accessories.

1.2 ACTION SUBMITTALS

A. Product Data: For each type of product.
B. Samples for Verification: For each exposed product and for each color and texture specified.

PART 2 - PRODUCTS

2.1 SUSTAINABILITY REQUIREMENTS

A. Comply with applicable provisions in the CGBC.

2.2 THERMOPLASTIC-RUBBER BASE

A. Product: Subject to compliance with requirements, provide Flexco; Base 2000.
B. Product Standard: ASTM F1861, Type TP (rubber, thermoplastic).
   b. Style and Location:
      1) Style B, Cove: Provide unless otherwise indicated.
      2. Thickness: 0.125 inch (3.2 mm).
      3. Height: 4 inches (102 mm).
      4. Lengths: Coils in manufacturer's standard length.
      5. Outside Corners: Preformed.
      6. Inside Corners: Job formed or preformed.
      7. Colors: As selected from manufacturer's standard colors.
2.3 RUBBER MOLDING ACCESSORIES

A. 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:

1. Roppe Corporation, USA.
2. VPI Corporation.
3. Armstrong.
4. Flexco.

B. Description: Rubber nosing for carpet, nosing for resilient flooring, reducer strip for resilient flooring, joiner for resilient flooring and carpet, joiner for tile and carpet, and transition strips.

C. Profile and Dimensions: As indicated on Drawings.

D. Locations: Provide rubber molding accessories where two different types of flooring meet and are not separated by a threshold and where indicated on Drawings.

E. Colors and Patterns: As indicated on Drawings or, if not indicated, as selected by Architect from manufacturer's full range.

2.4 INSTALLATION MATERIALS

A. Trowelable Leveling and Patching Compounds: Latex-modified, portland-cement-based or blended hydraulic-cement-based formulation provided or approved by resilient-product manufacturer for applications indicated.

B. Adhesives: Water-resistant type recommended by resilient-product manufacturer for resilient products and substrate conditions indicated.

PART 3 - EXECUTION

3.1 PREPARATION

A. Prepare substrates according to manufacturer's written instructions to ensure adhesion of resilient products.

B. Fill cracks, holes, and depressions in substrates with trowelable leveling and patching compound; remove bumps and ridges to produce a uniform and smooth substrate.

C. Do not install resilient products until materials are the same temperature as space where they are to be installed.

D. Immediately before installation, sweep and vacuum clean substrates to be covered by resilient products.
3.2 RESILIENT BASE INSTALLATION

A. Comply with manufacturer's written instructions for installing resilient base.

B. Apply resilient base to walls, columns, pilasters, casework and cabinets in toe spaces, and other permanent fixtures in rooms and areas where base is required.

C. Install resilient base in lengths as long as practical without gaps at seams and with tops of adjacent pieces aligned.

D. Tightly adhere resilient base to substrate throughout length of each piece, with base in continuous contact with horizontal and vertical substrates.

E. Do not stretch resilient base during installation.

F. Preformed Corners: Install preformed corners before installing straight pieces.

G. Job-Formed Corners:
   1. Inside Corners: Use straight pieces of maximum lengths possible and form with returns not less than 3 inches (76 mm) in length.
      a. Miter or cope corners to minimize open joints.

3.3 RESILIENT ACCESSORY INSTALLATION

A. Comply with manufacturer's written instructions for installing resilient accessories.

B. Resilient Molding Accessories: Butt to adjacent materials and tightly adhere to substrates throughout length of each piece. Install reducer strips at edges of floor covering that would otherwise be exposed.

3.4 CLEANING AND PROTECTION

A. Comply with manufacturer's written instructions for cleaning and protecting resilient products.

B. Cover resilient products subject to wear and foot traffic until Substantial Completion.

END OF SECTION
09 65 19 – RESILIENT TILE – PLANK FLOORING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS
A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY
A. Section Includes:
   1. Resilient Luxury Vinyl Tile Flooring

1.3 SUBMITTALS
A. Product Data: For each type of product indicated.
B. LEED Submittals:
   1. Product Data for Credit EQ 4.1: For adhesives, include printed statement of VOC content and chemical components.
C. Samples for Initial Selection: For each type of product indicated.
D. Samples for Verification: For each type of product indicated, in manufacturer's standard-size samples of each resilient product color, texture, and pattern required.
E. Product Schedule: For resilient products. Use same designations indicated on Drawings.

1.4 QUALITY ASSURANCE
A. Installation Qualification: Contractors for floor covering installation should be experienced in managing commercial flooring projects and provide professional installers, qualified to install the various flooring materials specified. An installer is “qualified” if trained by Tarkett or a certified INSTALL (International Standards & Training Alliance) resilient floor covering installer.
B. Mockups: Provide resilient products with mockups specified in other Sections.

1.5 DELIVERY, STORAGE, AND HANDLING
A. Store resilient products and installation materials in dry spaces protected from the weather, with ambient temperatures maintained within range recommended by Tarkett, but not less than 55 deg F (13 deg C) or more than 85 deg F (29 deg C).
1.6 PROJECT CONDITIONS

A. Install resilient products after other finishing operations, including painting, have been completed.

B. Maintain ambient temperatures within range recommended by Tarkett, but not less than 65 deg F (18 deg C) or more than 85 deg F (29 deg C) in spaces to receive resilient products during the following time periods:
   1. 48 hours before installation.
   2. During installation.
   3. 48 hours after installation.

C. Maintain the ambient relative humidity between 40% and 60% during installation.

D. Until Substantial Completion, maintain ambient temperatures within range recommended by Tarkett, but not less than 55 deg F (13 deg C) or more than 85 deg F (29 deg C).

PART 2 - PRODUCTS

2.1 RESILIENT SHEET FLOORING – BASIS OF DESIGN

A. Manufacturer:
   Tarkett North America
   30000 Aurora Rd.
   Solon, OH 44139
   Phone: (800) 899-8916
   Web: www.tarkettna.com

B. Comparable Products: Subject to compliance with requirements, manufacturers offering products that meet the aesthetic and performance criteria indicated herein may be incorporated into the Work upon pre-approval by the Architect prior to bid closing.

2.2 PERFORMANCE REQUIREMENTS

A. Fire-Test-Response Characteristics: For resilient tile flooring, as determined by testing identical products according to ASTM E 648 or NFPA 253 by a qualified testing agency.
   1. Critical Radiant Flux Classification: Class I, not less than 0.45 W/sq. cm.

B. Flooring products shall comply with the requirements of the California Department of Public Health's "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers."

2.3 EVENT LUXURY VINYL TILE

A. Basis-of-Design Product: Subject to compliance with requirements, provide Tandus Centiva, a Tarkett Company; **Heritage Plank** or comparable product.
B. Tile Standard: ASTM F 1700, **Class III, Type B, printed film vinyl tile, embossed surface.**

C. Wearing Surface: **Embossed.**

D. Edge Treatment: **Square.**

E. Thickness/Wearlayer: 0.120 inch (3.0 mm).

F. Sizes:
   1. 6 by 36 inches (15.2 by 91.4 cm)]

G. Colors and Patterns: Reference Drawings

H. Test data:
   1. Wear layer: 0.030 inches (0.76 mm)
   2. Size, Squareness, ASTM F2055: Passes
   3. Flexibility, ASTM F137: Passes
   5. Static Load Limit, ASTM F970: 250 psi, ≤ 0.005 inches
   6. Resistance to Heat, ASTM F1514: ΔE ≤ 8
   7. Resistance to Light, ASTM F1515: ΔE ≤ 8
   8. Residual Indentation, ASTM F1914: Passes
   9. Static Coefficient of Friction (SCOF), ASTM D2047: ≥ 0.5 SCOF
   10. Dimensional Stability, ASTM F2199: Passes
   11. Flammability, ASTM E648 Critical Radiant Flux: Class 1 (≥ 0.45 W/cm²)
   12. Smoke Density, ASTM E662: ≤ 450
   13. Limited Commercial Warranty: 20 years

**2.4 INSTALLATION MATERIALS**

A. Trowelable Leveling and Patching Compounds: Latex-modified, Portland cement based or blended hydraulic-cement-based formulation.

B. Adhesives: As recommended by Tarkett to meet site conditions
   1. Resilient Vinyl Floor Tile
      a. Tarkett RollSmart™
      b. Tarkett 959 Adhesive
      c. Tarkett 975 Two-Part Urethane Adhesive

**2.5 INSTALLATION MATERIALS**

A. Trowelable Leveling and Patching Compounds: Latex-modified, Portland cement based or blended hydraulic-cement-based formulation.

**PART 3 - EXECUTION**

**3.1 EXAMINATION**

A. Examine substrates, with Installer present, for compliance with requirements for maximum moisture content and other conditions affecting performance of the work.
B. Verify that finishes of substrates comply with tolerances and other requirements specified in other Sections and that substrates are free of cracks, ridges, depressions, scale, and foreign deposits that might interfere with adhesion of resilient products.

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

3.2 PREPARATION

A. Prepare substrates according to Tarkett written instructions to ensure proper adhesion of Resilient Flooring.

1. Prepare concrete substrates in accordance with ASTM F 710.
   a. Concrete floors must be free of dust, solvent, paint, wax, oil, grease, residual adhesive, adhesive removers, film-forming curing compounds, silicate penetrating curing compounds, sealing, hardening or parting compounds, alkaline salts, excessive carbonation or laitence, mold, mildew, and other foreign materials that may affect dissipation rate of moisture from the concrete, discoloration or adhesive bonding.
   b. Mechanically remove contamination on the substrate that may cause damage to the resilient flooring material. Permanent and non-permanent markers, pens, crayons, paint, etc., must not be used to write on the back of the flooring material or used to mark the substrate as they could bleed through and stain the flooring material.
   c. Perform moisture testing as recommended by manufacturer. Proceed with installation only after substrates have been tested and meet the minimum requirements from the manufacturer in accordance with ASTM F1869 Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride or ASTM F2170 Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs Using in situ Probes.
   d. A pH test for alkalinity must be conducted on the concrete floor prior to installation with results conforming to manufacturer requirements. If the test results are not within the acceptable range, the installation must not proceed until the problem has been corrected.

2. Wood subfloors must have a minimum 18” (45.7 cm) of cross-ventilated space beneath the bottom of the joist.
   a. The floor must be rigid, free of movement.
   b. Single wood and tongue and groove subfloors should be covered with ¼” (6.4 mm) or ½” (12.7 mm) APA approved underlayment plywood.
      1) Use ¼” (6.4 mm) thick underlayment panels for boards with a face width of 3” (76 mm) or less.
      2) Use ½” (12.7 mm) thick underlayment panels for boards with a face width wider than 3” (76 mm).
   c. Do not install over OSB (Oriented Strand Board), particle board, chipboard, lauan or composite type underlayments.

B. Fill cracks, holes, depressions and irregularities in the substrate with good quality Portland cement based underlayment leveling and patching compound and remove bumps and ridges to produce a uniform and smooth substrate.

C. Floor covering shall not be installed over expansion joints.

D. Do not install resilient products until they are same temperature as the space where they are to be installed.
1. Move resilient products and installation materials into spaces where they will be installed at least 48 hours in advance of installation.

E. Sweep and vacuum clean substrates to be covered by resilient products immediately before installation.

3.3 RESILIENT TILE FLOORING INSTALLATION

A. Comply with manufacturer's written instructions for installing resilient tile flooring.

B. Luxury Vinyl Tile Flooring:
   1. Install with Tarkett adhesive specified for the site conditions and follow adhesive label for proper use.
   2. Follow Tarkett’s recommendation for tile orientation.
   3. Open enough cartons of floor tiles to cover each area, and mix tile to ensure shade variations do not occur within any one area.
   4. Roll the flooring in both directions using a 100 pound three-section roller.

3.4 CLEANING AND PROTECTION

A. Comply with manufacturer's written instructions for cleaning and protection of resilient products.

B. Perform the following operations immediately after completing resilient product installation:
   1. Remove adhesive and other blemishes from exposed surfaces.
   2. Sweep and vacuum surfaces thoroughly.
   3. Damp-mop surfaces to remove marks and soil.

C. Protect resilient products from mars, marks, indentations, and other damage from construction operations and placement of equipment and fixtures during remainder of construction period.
   1. No traffic for 24 hours after installation.
   2. No heavy traffic, rolling loads, or furniture placement for 48 hours after installation.

D. Wait 48 hours after installation before performing initial cleaning.

E. A regular maintenance program must be started after the initial cleaning.

END OF SECTION
SECTION 09 68 13 – Tile Carpeting

PART 1 – GENERAL

1.01 Summary of Considerations & District Criteria

A. Modular tile carpeting for use in facilities shall be Milliken, carpet tile, or equal or better. All material 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.

1.02 Application / Intended Use

A. 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.

1.03 Selection Criteria

A. Industry Standards and Tests

i. Americans with Disabilities Act (ADA): Section 4.5.3. Accessibility Guidelines for Building & Facilities


iii. Aachen Test Test: Dimensional Stability (DIN Standard 54318 175 Stain Resistance; Pile Floor Covering


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.

1.04 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.

H. Shop Drawings: For floor covering and integrated walk-off mats. Include floor plan showing the location, dimension and orientation of carpet tiles and walk-off mats as specified.

I. Warranties: Unexecuted sample copies of warranties. All warranties shall be non-excluding regardless of existing conditions including RH, or contractor installation and workmanship.

1.05 Substitutions

A. Proposed substitution, to be considered, shall be manufactured of equivalent materials that meet or exceed specified requirements within the time allowed for substitution review.

1.06 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.
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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 requirement:

i. CRI TARR Rating (Texture Appearance Retention 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).

i. Noise Reduction Coefficient, ASTM C423: 0.20 minimum. 0.25 for LEED facility

ii. ASTM D 2859 or CPSC FF-1-70 Methenamine Pill Test: Pass.

iii. Critical Radiant Flux Classification: Not less than 0.45 W/sq. cm.

iv. Dry Breaking Strength: Not less than 100 lbf according to ASTM D 2646.

v. Dimensional Tolerance: Within 1/32 inch of specified size dimensions, as determined by physical measurement.

vi. Dimensional Stability: 0.2% or less according to ISO 2551 (Aachen Test).

vii. Colorfastness to Crocking: Not less than 4, wet and dry, according to AATCC 165.

viii. Electrostatic Propensity: Less than 3.5 kV according to AATCC 134.

ix. ASTME 648, Critical Radiant Panel Flux Class I, not less than 0.45 watts per square centimeter.

x. AATCC 16, Option E: Minimum rating of 4 on grey scale after 80 hours exposure.

xi. ASTM E 662 (NFPA 258): Smoke density less than 450 optical density

xii. AATCC 165: Minimum rating of 4 wet and dry.

xiii. AACHEN Test (DIN Standard 54318): Dimensional stability 0.2% shrinkage or growth.

1.07 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.

1.07 Warranty

A. Project warranty shall be as stated in Division 01 of the Specifications.

B. Special Tile Carpeting Warranty: Written warranty, non-prorated, signed by carpet tile manufacturer agreeing to remove and replace 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

D. Warranty shall be sole source responsibility of the manufacture. Second source warranties or warranties that involve parties’ other than the manufacturer is unacceptable.

E. In case of multiple buildings where tile carpeting has been used, identify building name/number and pattern, pattern color, square yards used.

F. 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.

1.09 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**
2.01 Manufacturers

A. ALL carpet tiles shall be products of one manufacturer, unless specifically indicated otherwise.

B. Substitutions following award of contract are not allowed.

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

2.02 Carpet Tile Component Characteristics (equal to or better)

Manufacturer: Milliken

A. Product: to be determined
B. Construction: Tufted, Textured Loop
C. Fiber Content: 100% nylon Type 6 or 6,6
D. Fiber - to be provided later in addenda.
E. Dye Method: Digital or Solution dyed technology
F. Color and Pattern: Selected by Architect and approved by Owner.
G. Pile Density: 5400 minimums.
H. Gauge: 1/12” minimum.
I. Surface Pile Weight: 15 oz./sq. yd. minimum.
J. Stitches per Inch: 8.00” minimum.
K. Backing System: Manufacturer’s standard PVC-Free open cell polyurethane cushion backing
L. Critical Radiant Flux Classification: Not less than 0.45 W/sq.cm.
M. Colorfastness to Crocking: Not less than 4, wet and dry, per AATCC-165, per AATCC-165.
N. Colorfastness to Light: Not less than 4 after 60 AFU (AATCC fading units) per AATCC-16.
O. Stain Resistance: AATCC-175, must pass Acid Red 40 spot test with an 8 or better.
P. TARR Rating (Texture Appearance Retention Rating): Severe Traffic End-Use Applications
Q. Dimensional Stability: Aachen Method Din 54318, 0.2% or less per ISO 2551.
R. Smoke Density: < or = 450 flaming.
S. Static Generation: AATCC 134 w/neolite < or = 3.5KV at 20% r.h.
T. Flame-Spread and Flammability:
U. 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.

2.03 Accessories

A. Adhesive shall be manufacturer approved.
B. Subfloor filler: Ardex feather finish or other Portland cement-based floor-patching compound.
C. Cove base: Cove base shall be provided in all rooms and be minimum 4” Tarkett, color black or other standard color. All work shall be TRADITIONAL DURACOVE THERMOPLASTIC RUBBER 1/8” (TYPE TP), equal or better.
D. Transition strips: Tarkett Edge guards, black or other standard color where specified. Transition strips shall be provided in any specialized configuration required by any unique intersection identified in the walk through.

PART 3 – EXECUTION

3.01 Examination

A. REFER to section A part 8.

3.02 Preparation

B. Refer to section A part 8.

3.03 Installation Procedures

A. Install carpet tiles and adhesive in accordance with manufacture’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 chalk lines 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. Concrete slabs must have Relative Humidity (RH) and pH range compliant to manufacturer’s QC standards. Refer to Part A section 8.

M. Remove coatings including curing compounds and other substances that are incompatible with adhesives.

N. 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.

O. 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.

P. Remove any adhesives, paint, or other products on the carpet immediately during carpet installation.

3.04 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. Concrete slabs must have Relative Humidity (RH) and pH range compliant to manufacturer’s QC standards.

3.05 Cleaning
A. The tile carpeting and walk-off tile manufacturer shall provide instructions to designate the proper methods and procedures for cleaning tile carpeting material furnished utilizing the above method.

B. Tile carpeting and walk-off manufacturer shall 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.

3.06 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.

END OF SECTION
PART 1 – GENERAL

1.01 SUMMARY

A. This section includes the following
   1. Preparing furniture, supplies, and equipment for move.
   2. Moving furniture, supplies, and equipment to new location.
   3. Storing furniture, supplies, and equipment both on and off site.
   4. Setting up the rooms after construction is completed.

B. For the purpose of this project, the scope of work is limited to moving and storing furnishings and equipment from classrooms and non-instructional rooms. Refer to applicable paragraphs in this Section.

1.02 RELATED DOCUMENTS

A. General provisions of the Contract, including General and Special Conditions and other Division 01 Specifications Sections, apply to this Section.

1.03 QUALIFICATIONS

A. Mover: Professional moving company with a minimum of five (5) years experience in moving school classrooms, equipment, including computers, electronic equipment, ROTC gear, (including military materials), science laboratory/ classrooms, theaters, photography laboratories, kitchens, cafeteria dining rooms/ multi purpose rooms, and industrial arts classrooms.

B. Insurance and Bonds: The moving company shall carry insurance and bonds for packing, transportation and storage of materials and equipment as follows:
   1. Bond: $10,000.00 minimum
   2. Comprehensive General Liability Insurance:
      Aggregate $2,000,000
      Single Limit per Occurrence $1,000,000
   3. Cargo Coverage, per van or onsite trailer cargo container $ 200,000

1.04 SUBMITTALS

A. Bonding compliance for mover and storage facilities and insurance requirements in accordance with the General Conditions.
1.05  PRE-MOVING CONFERENCE

A. Convene a pre-moving conference two weeks prior to commencing work of this section

B. Conference shall include: District’s Move Representative, Project Manager, Manager School Facilities, and Moving Contractors.

C. Discuss coordination of the moves with the phasing of the work, including the use of either onsite district facilities or on-site or off-site in Contractor-provided storage.

D. Include within the discussion the means and methods of relocating existing classrooms to and from storage.

1.06  SCHEDULING

A. Arrange schedule with District’s requirements for sequence of work under this contract.

B. Coordinate the moves within the Contractor’s construction CPM schedule, including the moves to and from storage.
   1. Moves to and from should be scheduled outside of school hours, on weekends, holidays or school recess periods.

1.07  DISTRICTS INSTRUCTIONS

A. All items to be moved shall be the responsibility of the Contractor during the packaging, moving, and storage and shall be moved using the proper equipment to protect from damage. A Professional Mover shall be employed by the District Contractor for all the packaging, labeling, and moving of all items that leave their room of origin for storage on site, off site or to any other room or building within the school site. The relocation of furniture or wall mounted items relocated within their own room may be moved by the Contractor.

B. Subcontracting of packing, moving, or storage to other that the listed moving and storage contractor is prohibited without prior written District approval.

C. The Contractor shall package, move, relocate and store items without disruption of school operations.

D. Prior to beginning construction work in each phase or area, the Contractor shall relocate the furniture, equipment, books, and supplies to temporary storage or other pre-approved on-site or off-site areas. After the work in each phase is completed, the Contractor shall relocate the furniture, equipment, books and supplies from their temporary location and place them back in their original rooms, in their original location.
E. The use of on-site school facilities, including classrooms, for storage during school breaks is allowed with written permission of the District. The Contractor shall protect the walls, doors, stairs and floors of the buildings from damage and shall repair all damage to the satisfaction of the District.

F. The contractor shall coordinate the work with the District’s Move Coordinator, MSF, and Project Manager.

G. The District will be responsible for packaging and moving all hazardous materials to comply with all state and federal regulations.

H. The District will be responsible for packaging and moving all computers systems.

1.08 ITEMS TO BE MOVED

A. The Professional Mover shall be responsible for packaging, moving, storing, and resetting the following items:

1. Desks, tables, chairs, portable cabinets, and portable bookshelves.
2. Books and supplies.
3. Flags, fire extinguishers, maps, etc.
4. Teaching, instructing, demonstrating, and other materials and equipment.
5. Filing cabinets, and other portable classroom and office equipment.
6. Printers, phones and all similar material and equipment.
7. Kitchen items: including but not limited to portable and counter mounded food preparation items, pots, pans, preparation tables, serving tables, steam tables, storage racks, refrigerators, freezers, dry goods and supplies within the storerooms, warming cabinets, salad bars, serving tray, and silverware, etc. The District will be responsible for relocating any refrigerated or frozen food items as required.
8. Industrial Art classrooms: (Wood, metal, and machine shops), all portable and counter mounted equipment, including drill presses, scroll saws, sanders, electric planners, etc., floor mounted equipment, including but not limited to lathes, table saws, drill presses, bands saws, work tables, kilns, all hand tools, jigs, and class supplies including wood, sheet metal, clay, etc. The contractor shall disconnect all floor mounted and hard wired equipment.
9. Science laboratories: including but not limited to microscopes, balances, glassware, class supplies, and demonstrational items, including skeletons, models, etc.
10. Photography laboratories: including but not limited to enlargers, printers, dryers, developers, cameras, class supplies and equipment.
11. Art classrooms: including but not limited to kilns, easels, student projects, and classroom supplies, etc.
12. Weight and Exercise rooms: including but not limited to floor and wall mounted equipment, free weights, and mats, etc.
13. Athletic equipment storage: including but not limited to uniforms, pads, mats, shoes, helmets, etc.
14. Theater: including but not limited to props, flats, furniture, costumes, etc.
15. Music Classroom: including but not limited to stands, instruments supports, instruments, uniforms, sheet music, class supplies.

1.09 TEACHER’S PERSONAL ITEMS

A. Teacher’s personal items, (non-district owned items), will be packaged by the teachers in boxes provided by the Contractor and either removed from the site or moved by the teachers.

PART 2 - PRODUCTS

2.01 EQUIPMENT

A. Equipment and Moving Equipment: The Contractor shall provide all moving and Bi-Rite storage boxes and equipment as required to achieve a successful furnishings and equipment move. Boxes may either be furnished by the District or provided by the Professional Mover based on prices as noted in the Bid Form.

B. The Contractor shall provide all required on-site storage as required to temporarily store all removed items.

C. Provide waterproof tarps, blankets, boxes (if called for), and securing materials to transport materials to prevent water and rain damage and prevent damage to individual items.

D. Provide ocean-going containers for on-site storage, when space is available and approved by the District.

E. Approximately 50 Bi-Rite boxes will be utilized for each classroom, tape for each book or storage room, whose contents are to be packed and moved. Some of the boxes are to be used by staff to pack their personal items. If requested to provide boxes, Professional Mover shall deliver to the site ten (10) days prior to the move date.

F. If requested, provide larger Bi-Rite boxes suitable for packing monitors, CPU, and keyboards together. Provide one box for each computer system. Provide boxes of the correct size and construction for ancillary equipment.

G. Provide book carts, (wheeled storage shelving) in sufficient number for moving and storing the entire library.
PART 3 – EXECUTION

3.01 EXAMINATION

A. Verify with the District the availability of staging areas.
B. Beginning work of this Section means acceptance of existing conditions.

3.02 PREPARATION

A. Coordinate with District Personnel the tagging and disconnection of all furniture and equipment to be relocated. All items, equipment, and boxes shall be tagged and each box labeled with the room number, and teachers name from location, and school location.
B. Secure materials to prevent shifting of loads.
C. Box, wrap, tape, and provide cover.
D. Protect furnishings and equipment from damage including: denting, scratching, scuffing, cracking, racking and tearing.
E. During move, protect adjacent structures and property from damage caused by moving of contract materials. Repair any damage at no cost to the district.

3.03 PACKING AND LOADING

A. Use packaging materials to prevent damage to furnishings, supplies and equipment.
B. Provide protective coverings. Wrap each individual piece of glassware.
C. Move materials in manner to prevent damage.
D. Move furnishings and equipment, control speed and provide restraining devices so shift of loads does not occur.
E. All equipment, which is not moved, shall be protected from damage during the project. Protect all equipment, material and boxed items from any inclement weather conditions.

3.04 MOVE FURNISHINGS AND EQUIPMENT

A. The Professional Mover shall provide transport vehicles for moving furnishings and equipment to and from on site storage facilities.
B. All floor mounted copy machines shall be moved by the current service company.
3.05 STORAGE FACILITIES

A. Position and locate materials in orderly fashion within the storage facilities.

B. Coordinate with District for exact staging.

3.06 REPAIR OF DAMAGE

A. Repair damages to furnishings and equipment not identified in writing prior to reinstalling or, if required by the District, replace with new furnishings or equipment of equal or better quality, if as determined by the District they can not be successfully repaired. All damaged items shall be repaired within 21 days.

B. Replace all missing items within 21 days.

C. Refinish repaired surfaces to original conditions to the satisfaction of the District.

3.07 RE-INSTALLATION

A. Remove Protective Wrappings and leave premises in orderly manner.

B. Coordinate with District personnel on the reconnection of all equipment. The District will be responsible for final reconnection of all computer systems.

END OF SECTION