



State of Utah

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Lieutenant Governor

Department of Administrative Services

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Executive Director

Division of Facilities Construction and Management

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Director

ADDENDUM NO. 1

Date: March 19, 2009

To: Contractors

From: Wayne Smith, Project Manager, DFCM

Reference: Vernal Readiness Center Upgrade
Utah National Guard
DFCM Project No. 08032470

Subject: **Addendum No. 1**

Pages	Addendum Cover Sheet	1 page
	<u>Architect's Addendum</u>	<u>18 pages</u>
	Total	19 pages

Note: *This Addendum shall be included as part of the Contract Documents. Items in this Addendum apply to all drawings and specification sections whether referenced or not involving the portion of the work added, deleted, modified, or otherwise addressed in the Addendum. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to Disqualification.*

While we contend that SB220 should only be potentially applicable to a contract issued after the effective date of said bill, this is to clarify that for purposes of this contract, regardless of the execution or effective dates of this contract, the status of Utah Law and remedies available to the State of Utah and DFCM, as it relates to any matter referred to or affected by said SB220, shall be the Utah law in effect at the time of the issuance of this Addendum.

- 1.1 **SCHEDULE CHANGES:** No schedule changes.
- 1.2 **GENERAL ITEMS:** See attached Architect's Addendum

ADDENDUM #1
RENOVATION OF READINESS CENTER
220 SOUTH 500 EAST
VERNAL, UTAH

SHEET AD101

1. Add keyed note 12 in room 112 as follows
12. REMOVE WOOD WALL PANELS FROM NORTH AND WEST WALLS. PATCH DAMAGE TO MASONRY CAUSED FROM REMOVING WALL PANELS
2. Add keyed note 13 in room 107 as follows.
13. REMOVE EXISTING WIRE MESH GRILLS IN NORTH & EAST WALLS OF THIS ROOM.

SHEET AE101

1. Add the following General Note #3 :
3. PAINT ALL EXPOSED SURFACE MOUNTED CONDUIT
2. Change keyed note 1 shown by room title (DRILL HALL 120) to keyed note 13
3. See attached VBFA Addendum and add keyed note 14 in room 107 as follows:
14. ADD NEW GRILLS OVER EXISTING AIR TRANSFER OPENINGS IN NORTH & EAST WALLS OF THIS ROOM ON BOTH SIDES OF WALLS
4. See attached VBFA Addendum and add keyed note 15 at return air grills on drill hall side of wall to mechanical room 108 as follows:
15. REPLACE EXISTING RETURN AIR GRILLS WITH NEW.
5. Add attached details 1/AE101 and 2/AE101 to sheet AE101.

SHEET AE201

1. Revise General Note 2 to read as follows
2. CLEANING OF EXTERIOR MASONRY, FACIA, & SOFFIT SHALL BE INCLUDED IN THIS CONTRACT AND COMPLETED AFTER REPAIRS TO MASONRY AND OTHER EXTERIOR FINISHES ARE COMPLETE.
2. Revise Detail 1/AE201 to show additional repairs to masonry as shown on the attached sheet. (Attachment #1)

SHEET AE501

1. Delete door #4 & #5 from the door schedule along with associated hardware.
2. Replace door schedule with revised door schedule. (Attachment #2)
3. Revise note #4 at the bottom of the finish schedule to read as follows:

4 PAINT WALLS, CEILING COLUMNS & BEAMS IN ENTIRE DRILL HALL. REMOVE ALL DUST & DIRT PRIOR TO REPAINTING. PAINT AROUND PERMANENTLY FIXED WALL HANGINGS - REMOVE AND REPLACE POSTER & OTHER ITEMS - COORDINATE WITH GUARD.

4. Revise the finish schedule to show the walls in basement corridor B101 to be painted, including the stairway up to the main entry.

MECHANICAL

1. See attached VanBoerum & Frank Associates Addendum.

ELECTRICAL

1. See attached Spectrum Engineers Addendum.

SPECIFICATIONS

1. Add attached Section 096811 – Tile Carpeting (Entry Walk-Off) to the specifications
2. Add Thermal Window Systems as an approved manufacture in Section 084113, Aluminum Windows
3. Add Interface as an approved carpet manufacture for carpet tile – Section 096813–2.1 under state contract #102977A. Carpet must be equal to that specified

4. Revise the following sections as noted:

SECTION 017300 “EXECUTION” and SECTION 024119 “SELECTIVE STRUCTURE DEMOLITION”

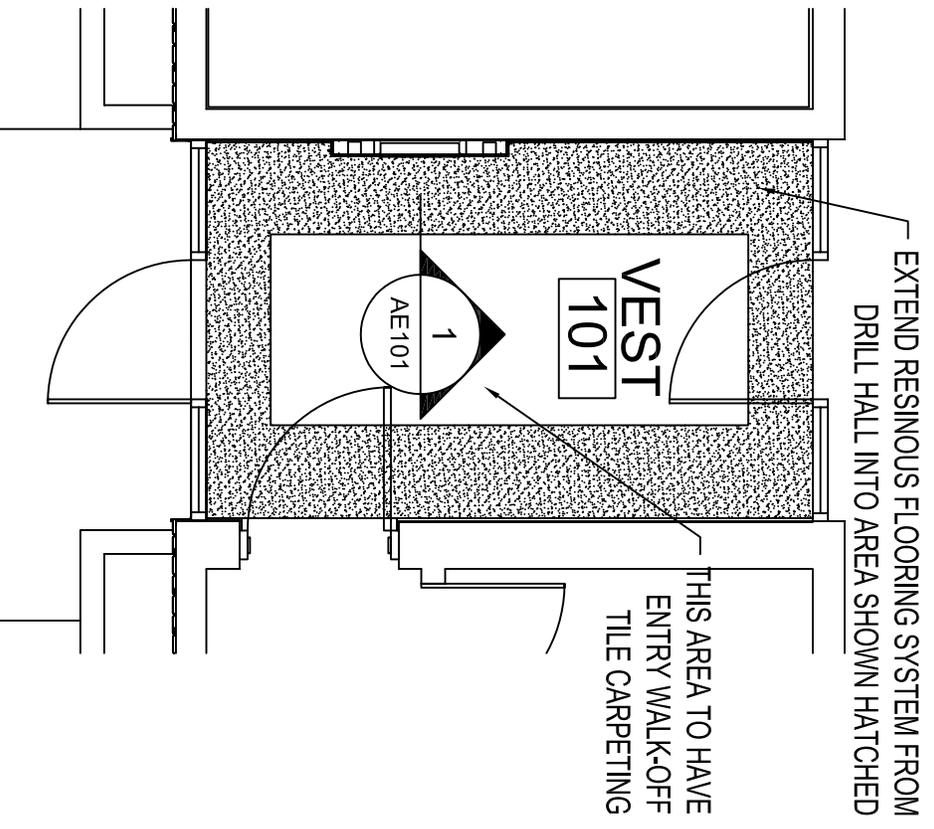
1. Delete 017300 1.3.A and 024119 1.6.D and replace with the following:

A or D. Hazardous Materials: Hazardous materials are present in the building. A report on the presence of hazardous materials is on file for review and use. Examine report to become aware of locations where hazardous materials are present.

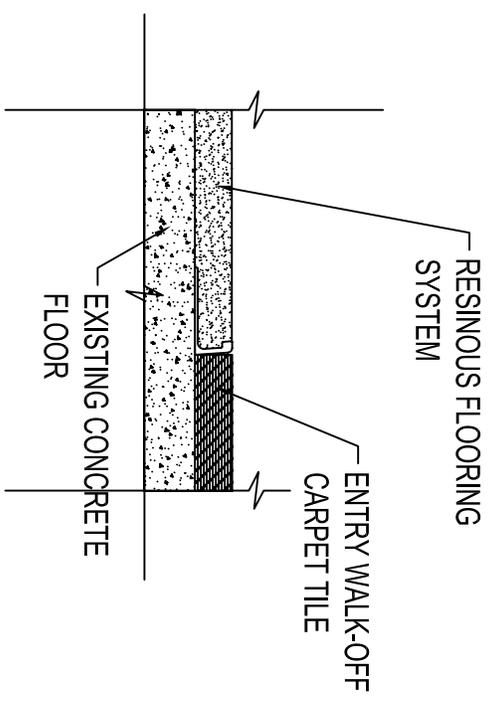
1. Hazardous materials will be removed by Owner under a separate contract, with the exception of fluorescent light tubes and PCB ballasts. Removal may occur before and/or during work of this Contract. See Division 01 Section “Summary” for requirements related to cooperation and coordination with separate contractors under other contracts.
2. If suspected hazardous materials are encountered, do not disturb; immediately notify Architect and Owner.
3. Comply with State of Utah Department of Health Division of Solid and Hazardous Waste standards and regulations for removal and disposal of fluorescent light tubes and PCB ballasts.

MISCELLANEOUS CLARIFICATIONS

1. As part of the cleaning of the exterior of the building remove any miscellaneous items attached to or hung from the building. Remove mortar on brick used to plug holes smaller than $\frac{3}{4}$ " that extends beyond the hole itself, and stain the mortar to match the brick. Larger holes will need to have the brick replaced.
2. Provide and install roof flashing for antenna cable hanging over the roof edge and routed through the south east window. Coordinate best route and location of flashing with the Utah National Guard.
3. Include cleaning of the existing ducts as part of this contract. See attached VBFA addendum

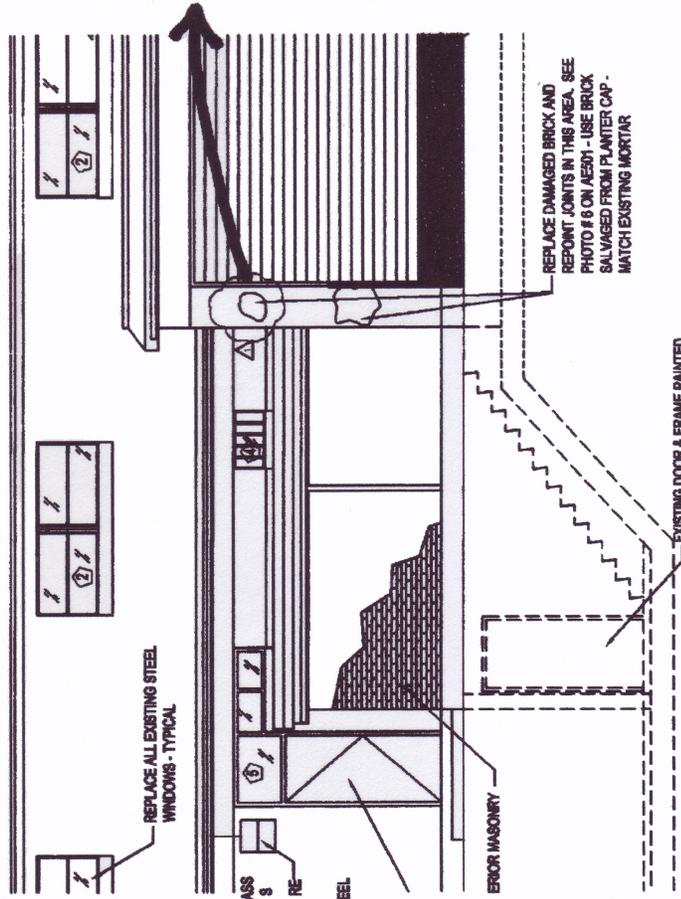


2 ENLARGED ENTRY FLOOR PLAN
 SCALE: 1/4" = 1'-0"
 AE101



1 METAL EDGE DETAIL
 SCALE: 3" = 1'-0"
 AE101

ADDENDUM #1, ATTACHMENT #1
 RENOVATION OF READINESS CENTER
 220 SOUTH 500 EAST
 VERNAL, UTAH



1 NORTH ELEVATION
 SCALE: 1/8" = 1'-0"
 AE201

ADDENDUM

DATE: March 19, 2009
PROJECT NO: 8366
PROJECT: Utah National Guard, Vernal
Readiness Center

DIVISION - 23

DRAWINGS

SHEET - M101

1. Revise Key Note 2 to read: "Make connection to top **or side** of existing duct in this area with new duct and route to new diffuser as indicated. **Field verify** exact location of existing duct and point **and manner** of connection."
2. Remove existing transfer grilles on both sides of wall in Supply Room 107 in the common wall with Drill Hall 120 and Office 106. Provide new Return Air Grilles on both sides of wall. Field verify exact number and location of grilles. Grilles shall be Price Model 91.
3. Remove existing Return Air Grilles at Drill Hall side of Mechanical Room 108. Replace with new grilles. Grilles shall be Price Model 91. Field verify exact number and locations.
4. Add General Note: "**Existing duct locations and sizes, diffuser locations and return air locations are based on the best available information and site observations. Contractor shall field verify all dimensions, sizes, locations and conditions prior to submitting bid.**"

SPECIFICATIONS

SECTION - 15890 - HVAC AIR-DISTRIBUTION SYSTEM CLEANING

1. Clean all existing duct work in the facility following attached specification section.

SECTION 15890 - HVAC AIR-DISTRIBUTION SYSTEM CLEANING

GENERAL

RELATED DOCUMENTS

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

SUMMARY

2. Section includes cleaning HVAC air-distribution equipment, ducts, plenums, and system components.

DEFINITIONS

3. ASCS: Air systems cleaning specialist.
4. NADCA: National Air Duct Cleaners Association.

SUBMITTALS

5. Qualification Data: For an ASCS.
6. Strategies and procedures plan.
7. Cleanliness verification report.

QUALITY ASSURANCE

8. ASCS Qualifications: A certified member of NADCA.
9. UL Compliance: Comply with UL 181 and UL 181A for fibrous-glass ducts.

PRODUCTS (Not Used)

EXECUTION

EXAMINATION

10. Examine HVAC air-distribution equipment, ducts, plenums, and system components to determine appropriate methods, tools, and equipment required for performance of the Work.
11. Perform "Project Evaluation and Recommendation" according to NADCA ACR 2006.
12. Prepare written report listing conditions detrimental to performance of the Work.
13. Proceed with work only after unsatisfactory conditions have been corrected.

PREPARATION

14. Prepare a written plan that includes strategies and step-by-step procedures. At a minimum, include the following:
 - A. Supervisor contact information.
 - B. Work schedule including location, times, and impact on occupied areas.
 - C. Methods and materials planned for each HVAC component type.
 - D. Required support from other trades.
 - E. Equipment and material storage requirements.
 - F. Exhaust equipment setup locations.
15. Use the existing service openings, as required for proper cleaning, at various points of the HVAC system for physical and mechanical entry and for inspection.
16. Comply with NADCA ACR 2006, "Guidelines for Constructing Service Openings in HVAC Systems" Section.

CLEANING

17. Comply with NADCA ACR 2006.
18. Remove visible surface contaminants and deposits from within the HVAC system.
19. Systems and Components to Be Cleaned:
 - A. Existing Supply Air and Return Air Ductwork:
 - 1) Supply-air ducts, including turning vanes.
 - 2) Return-air ducts.
20. Collect debris removed during cleaning. Ensure that debris is not dispersed outside the HVAC system during the cleaning process.
21. Particulate Collection:
 - A. For particulate collection equipment, include adequate filtration to contain debris removed. Locate equipment downwind and away from all air intakes and other points of entry into the building.
 - B. HEPA filtration with 99.97 percent collection efficiency for particles sized 0.3 micrometer or larger shall be used where the particulate collection equipment is exhausting inside the building,
22. Control odors and mist vapors during the cleaning and restoration process.
23. Mark the position of manual volume dampers and air-directional mechanical devices inside the system prior to cleaning. Restore them to their marked position on completion of cleaning.
24. System components shall be cleaned so that all HVAC system components are visibly clean. On completion, all components must be returned to those settings recorded just prior to cleaning operations.
25. Clean all air-distribution devices, registers, grilles, and diffusers.
26. Duct Systems:
 - A. Create service openings in the HVAC system as necessary to accommodate cleaning.

- B. Mechanically clean duct systems specified to remove all visible contaminants so that the systems are capable of passing the HVAC System Cleanliness Tests (see NADCA ACR 2006).
27. Debris removed from the HVAC system shall be disposed of according to applicable Federal, state, and local requirements.
28. Mechanical Cleaning Methodology:
- A. Source-Removal Cleaning Methods: The HVAC system shall be cleaned using source-removal mechanical cleaning methods designed to extract contaminants from within the HVAC system and to safely remove these contaminants from the facility. No cleaning method, or combination of methods, shall be used that could potentially damage components of the HVAC system or negatively alter the integrity of the system.
 - 1) Use continuously operating vacuum-collection devices to keep each section being cleaned under negative pressure.
 - 2) Cleaning methods that require mechanical agitation devices to dislodge debris that is adhered to interior surfaces of HVAC system components shall be equipped to safely remove these devices. Cleaning methods shall not damage the integrity of HVAC system components or damage porous surface materials such as duct and plenum liners.

CLEANLINESS VERIFICATION

29. Verify cleanliness according to NADCA ACR 2006, "Verification of HVAC System Cleanliness" Section.
30. Verify HVAC system cleanliness after mechanical cleaning and before applying any treatment or introducing any treatment-related substance to the HVAC system, including biocidal agents, coatings, and sanitizers.
31. Perform visual inspection for cleanliness. If no contaminants are evident through visual inspection, the HVAC system shall be considered clean. If visible contaminants are evident through visual inspection, those portions of the system where contaminants are visible shall be re-cleaned and subjected to re-inspection for cleanliness.
32. Prepare a written cleanliness verification report. At a minimum, include the following:
- A. Written documentation of the success of the cleaning.
 - B. Site inspection reports, initialed by supervisor, including notation on areas of inspection, as verified through visual inspection.
 - C. Surface comparison test results if required.
 - D. Gravimetric analysis (nonporous surfaces only).
 - E. System areas found to be damaged.

RESTORATION

33. Restore and repair HVAC air-distribution equipment, ducts, plenums, and components according to NADCA ACR 2006, "Restoration and Repair of Mechanical Systems" Section.
34. Restore service openings capable of future reopening. Comply with requirements in Division 15 Section "Metal Ducts." Include location of service openings in Project closeout report.
35. Replace damaged insulation according to "Division 15 Section "HVAC Insulation."

March 18, 2009

Page 5 of 5

36. Ensure that closures do not hinder or alter airflow.
37. New closure materials, including insulation, shall match opened materials and shall have removable closure panels fitted with gaskets and fasteners.

END OF SECTION 15890

Document5



**SPECTRUM
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Addendum #1

To:	Jerry Aurich	Telephone:	(801) 521-8564
Company:	EFT Architects	Fax:	(801) 355-2938
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Re:	Addendum #1	Fax:	801-401-9473
Job Number:	20080418	E-mail:	dla@spectrum-engineers.com
Date:	March 19, 2009	Page:	1 of 1

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Addenda Items

In regards to Utah National Guard Camp Vernal Readiness Center located in Vernal, Utah.

1. Prior approved light fixtures are as follows:
 - a. E: Dual-Lite #UFO-6W
 - b. HF-99: Columbia Lighting #LHV4-654-M4R4-ST-24EPU-F5841-CAWG

We trust this is the information you require.

David Affleck, Spectrum Engineers

Spectrum Engineers, Inc.

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SECTION 096811 - TILE CARPETING (ENTRY WALK-OFF)

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. This Section includes modular carpet tile.
- B. Related Sections include the following:
 - 1. Division 09 Section "Resilient Base and Accessories" for resilient wall base and accessories installed with carpet tile.

1.3 SUBMITTALS

- A. Product Data: For each type of product indicated. Include manufacturer's written data on physical characteristics, durability, and fade resistance. Include installation recommendations for each type of substrate.
- B. Shop Drawings: Show the following:
 - 1. Columns, doorways, enclosing walls or partitions, and locations where cutouts are required in carpet tiles.
 - 2. Carpet tile type, color, and dye lot.
 - 3. Type of subfloor.
 - 4. Type of installation.
 - 5. Pattern of installation.
 - 6. Pattern type, location, and direction.
 - 7. Pile direction.
 - 8. Type, color, and location of insets and borders.
 - 9. Type, color, and location of edge, transition, and other accessory strips.
 - 10. Transition details to other flooring materials.
- C. Samples: For each of the following products and for each color and texture required. Label each Sample with manufacturer's name, material description, color, pattern, and designation indicated on Drawings and in schedules.
 - 1. Carpet Tile: Full-size Sample.

2. Exposed Edge, Transition, and other Accessory Stripping: 12-inch- long Samples.
- D. Product Schedule: For carpet tile. Use same designations indicated on Drawings.
- E. Qualification Data: For Installer.
- F. Product Test Reports: Based on evaluation of comprehensive tests performed by a qualified testing agency.
- G. Maintenance Data: For carpet tiles to include in maintenance manuals. Include the following:
 1. Methods for maintaining carpet tile, including cleaning and stain-removal products and procedures and manufacturer's recommended maintenance schedule.
 2. Precautions for cleaning materials and methods that could be detrimental to carpet tile.
- H. Warranty: Special warranty specified in this Section.

1.4 QUALITY ASSURANCE

- A. Installer Qualifications: An experienced installer who is certified by the Floor Covering Installation Board or who can demonstrate compliance with its certification program requirements.
- B. Fire-Test-Response Characteristics: Provide products with the critical radiant flux classification indicated in Part 2, as determined by testing identical products per ASTM E 648 by an independent testing and inspecting agency acceptable to authorities having jurisdiction.
- C. Preinstallation Conference: Conduct conference at Project site to comply with requirements in Division 01 Section "Project Management and Coordination." Review methods and procedures related to carpet tile installation including, but not limited to, the following:
 1. Review delivery, storage, and handling procedures.
 2. Review ambient conditions and ventilation procedures.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Comply with CRI 104, Section 5, "Storage and Handling."

1.6 PROJECT CONDITIONS

- A. Comply with CRI 104, Section 7.2, "Site Conditions; Temperature and Humidity" and Section 7.12, "Ventilation."
- B. Environmental Limitations: Do not install carpet tiles until wet work in spaces is complete and dry, and ambient temperature and humidity conditions are maintained at the levels indicated for Project when occupied for its intended use.
- C. Do not install carpet tiles over concrete slabs until slabs have cured and are sufficiently dry to bond with adhesive and concrete slabs have pH range recommended by carpet tile manufacturer.
- D. Where demountable partitions or other items are indicated for installation on top of carpet tiles, install carpet tiles before installing these items.

1.7 WARRANTY

- A. Special Warranty for Carpet Tiles: Manufacturer's standard form in which manufacturer agrees to repair or replace components of carpet tile installation that fail in materials or workmanship within specified warranty period.
 - 1. Warranty does not include deterioration or failure of carpet tile due to unusual traffic, failure of substrate, vandalism, or abuse.
 - 2. Failures include, but are not limited to, more than 10 percent loss of face fiber, edge raveling, snags, runs, loss of tuft bind strength, dimensional stability, and delamination.
 - 3. Warranty Period: 15 years from date of Substantial Completion.

1.8 EXTRA MATERIALS

- A. Furnish extra materials described below, before installation begins, that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
 - 1. Carpet Tile: Full-size units equal to 5 percent of amount installed for each type indicated, but not less than 10 sq. yd..

PART 2 - PRODUCTS

2.1 CARPET TILE

- A. Products: Subject to compliance with requirements, products that may be incorporated into the work include but are not limited to the following:

1. Entry Level (19.69 by 19.69); InterfaceFLOR
 2. FirstStep Modular (24 by 24); Lees
 3. Welcome Tile (24 by 24); Shaw Contract Group.
 - a. Color: As selected by Architect from manufacturer's full range.
- B. Face Weight: 28 oz/sq. yd. minimum
- C. Pile Thickness: 0.15 inches minimum
- D. Density: 5494 minimum
- E. Performance Characteristics: As follows:
1. Critical Radiant Flux Classification: Not less than 0.45 W/sq. cm.
 2. Environmental Requirements: Provide carpet tile that complies with testing and product requirements of Carpet and Rug Institute's "Green Label Plus" program.

2.2 INSTALLATION ACCESSORIES

- A. Trowelable Leveling and Patching Compounds: Latex-modified, hydraulic-cement-based formulation provided or recommended by carpet tile manufacturer.
- B. Adhesives: Water-resistant, mildew-resistant, nonstaining, pressure-sensitive type to suit products and subfloor conditions indicated, that complies with flammability requirements for installed carpet tile and is recommended by carpet tile manufacturer for releasable installation.
1. VOC Limits: Provide adhesives with VOC content not more than 50 g/L when calculated according to 40 CFR 59, Subpart D (EPA method 24).

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for maximum moisture content, alkalinity range, installation tolerances, and other conditions affecting carpet tile performance. Examine carpet tile for type, color, pattern, and potential defects.
- B. Concrete Subfloors: Verify that concrete slabs comply with ASTM F 710 and the following:
1. Slab substrates are dry and free of curing compounds, sealers, hardeners, and other materials that may interfere with adhesive bond. Determine adhesion and

- dryness characteristics by performing bond and moisture tests recommended by carpet tile manufacturer.
 - 2. Subfloor finishes comply with requirements specified in Division 03 Section "Cast-in-Place Concrete" for slabs receiving carpet tile.
 - 3. Subfloors are free of cracks, ridges, depressions, scale, and foreign deposits.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. General: Comply with CRI 104, Section 6.2, "Site Conditions; Floor Preparation," and with carpet tile manufacturer's written installation instructions for preparing substrates indicated to receive carpet tile installation.
- B. Use trowelable leveling and patching compounds, according to manufacturer's written instructions, to fill cracks, holes, depressions, and protrusions in substrates. Fill or level cracks, holes and depressions 1/8 inch wide or wider and protrusions more than 1/32 inch, unless more stringent requirements are required by manufacturer's written instructions.
- C. 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 carpet tile manufacturer.
- D. Clean metal substrates of grease, oil, soil and rust, and prime if directed by adhesive manufacturer. Rough sand painted metal surfaces and remove loose paint. Sand aluminum surfaces, to remove metal oxides, immediately before applying adhesive.
- E. Broom and vacuum clean substrates to be covered immediately before installing carpet tile.

3.3 INSTALLATION

- A. General: Comply with CRI 104, Section 14, "Carpet Modules," and with carpet tile manufacturer's written installation instructions.
- B. Installation Method: Glue down; install every tile with full-spread, releasable, pressure-sensitive adhesive.
- C. Maintain dye lot integrity. Do not mix dye lots in same area.
- D. 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.

- E. Extend carpet tile into toe spaces, door reveals, open-bottomed obstructions, removable flanges, alcoves, and similar openings.
- F. Maintain reference markers, holes, and openings that are in place or marked for future cutting by repeating on finish flooring as marked on subfloor. Use nonpermanent, nonstaining marking device.
- G. Install pattern parallel to walls and borders.

3.4 CLEANING AND PROTECTION

- A. Perform the following operations immediately after installing carpet tile:
 - 1. Remove excess adhesive, seam sealer, 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.
- B. Protect installed carpet tile to comply with CRI 104, Section 16, "Protection of Indoor Installations."
- C. Protect carpet tile against damage from construction operations and placement of equipment and fixtures during the remainder of construction period. Use protection methods indicated or recommended in writing by carpet tile manufacturer.

END OF SECTION 096811