

SECTION 09110: METAL STUD WALLS AND PARTITIONS

PART 1: GENERAL

1.01 DESCRIPTION OF WORK

- A. Work Included in This Section: Interior non-load-bearing steel framed walls and partitions as shown on the Drawings, including clips, angles, flat plates, channels, straps, bracing, fasteners, or other materials necessary for complete installation. Coordinate with all trades required to install work on or into work of this section.
- B. Related Work Specified Elsewhere:
 - 1. METAL DOORS AND FRAMES Section
 - 2. GYPSUM WALL BOARD AND CEMENT BOARD Section

1.02 INCORPORATED DOCUMENTS

In addition to the Codes and Standards listed in Section 01090, the published specifications, standards and methods of the trade cited below shall apply to the Work of this Section.

- A. United States Gypsum's "Drywall Construction Handbook" with Product and Construction Standards (DCH), Latest Edition.
- B. Fire-Resistance Rating: Where fire resistance rating is required, provide materials and installation which are in compliance with those of applicable assemblies tested per ASTM E119 by fire testing laboratories acceptable to authorities having jurisdiction.

1.03 SUBMITTALS

Submittals shall be in accordance with SUBMITTALS Section and shall include the following:

- A. Product Data: Submit manufacturer's product specifications and installation instructions for systems used.
- B. Certificates: Submit certification of compliance with fire and sound requirements indicated.

1.04 DELIVERY, STORAGE AND HANDLING

- A. All materials shall be delivered in their original unopened packages and stored protected from damage by equipment of other trades.
- B. Provide adequate support to prevent bending or bowing of the material.

- C. Inspect all material prior to installation to determine suitability for the work.
- D. Do not store any material directly exposed to standing water or on grade. All material should be supported so that material is not in direct contact with the ground.
- E. Notify manufacturer of damaged material prior to installing.

1.05 JOB SITE CONDITIONS

- A. Contractor shall supply a suitable working environment to insure the material can be installed in accordance with the specifications.
- B. Contractor shall comply with all pertinent safety requirements.

PART 2: PRODUCTS

2.01 STEEL FRAMING

- A. All steel studs shall be C-shaped, roll-formed channels with flange return as noted on the Drawings, with corresponding tracks. Steel studs shall be of the size and spacing indicated on the Drawings. All steel framing shall be the product of a single manufacturer.
 - 1. Wall studs shall be "S" series as manufactured by Unimast Incorporated and distributed by United States Gypsum, or equal product of other approved manufacturer, and shall be the size and gauge as noted on the Drawings.
 - 2. Reinforcement for door frames or attached items shall be "S" series as manufactured by Unimast Incorporated and distributed by United States Gypsum, or equal product of other approved manufacturer, and shall be minimum 18 gauge unless noted otherwise on the Drawings.
- B. All steel framing shall be formed from corrosion-resistant steel, corresponding to the requirements of ASTM A-446, A-568 or A-611.
- C. All steel framing shall be zinc coated meeting ASTM A-525
- D. All steel framing shall comply with Federal specification QQ-S-775 Type, Class E.

PART 3: EXECUTION

3.01 PRE-INSTALLATION CONFERENCE

- A. Prior to start of installation of metal framing systems, General Contractor and Subcontractors shall meet at project site with installers of related work including door and window frames and mechanical and electrical work.
- B. Review areas for potential conflicts, and coordinate layout and support provisions for interfacing work.

3.02 INSTALLATION

- A. Install studs as per manufacturer's instructions, applicable trade standards, and governing Codes, and in compliance with ASTM C 754 and with ASTM C 840 requirements that apply to framing installation.
- B. Studs shall be one-piece full length; splicing and factory welds are not permitted.
- C. Studs shall be plumbed, aligned, and securely attached to each flange of both top and bottom runner track by screw fastening.
- D. Provide solid continuous support under floor tracks.
- E. For sound attenuation, set tracks on continuous beads of sealant or other cushion as per manufacturer's instructions. Stagger with plate separations. Caulk thoroughly to prevent air transfer of sound.
- F. Stud framing at perimeter of wall penetrations, wall openings and doors shall be 18 gauge minimum.
- G. Jack studs or cripples shall be installed below wall penetrations, above wall penetrations, wall openings and door heads, and elsewhere to furnish support, and shall be securely attached to connecting members.
- H. Provisions for vertical structural movement shall be provided where indicated or required using slide clips or deflection tracks.
- I. Lateral bracing shall be provided by use of gypsum board and gypsum sheathing and/or by horizontal straps or cold-rolled channels securely fastened to the studs.
- J. Install 18 gauge supplementary framing, blocking and bracing in metal stud framing wherever walls or partitions are indicated to support fixtures, equipment, services, casework, heavy trim and furnishings and similar work requiring attachments to the walls or partitions.

3.03 INSULATION

- A. Insulation equal to that specified in Section 07200 shall be provided in all doubled jamb studs and headers not accessible to the insulation contractor.

3.04 FIELD PAINTING

- A. Where galvanized surfaces are damaged, prepare surfaces and repair in accordance with procedure specified in ASTM A-780.

3.05 CLEAN-UP

- A. Clean up shall be performed in accordance with Section 01000, Special Conditions.

End Of Section 09110

SECTION 09252: GYPSUM WALLBOARD

PART 1: GENERAL

1.01 DESCRIPTION OF WORK

- A. Work Included in This Section: Provisions of gypsum wallboard for all interior wall and ceiling surfaces and interior texture coating where indicated on the Drawings and elsewhere scheduled.
- B. Related Work Specified Elsewhere:
 - 1. PAINTING Section

1.02 INCORPORATED DOCUMENTS

The provisions and requirements of the General and Supplementary Conditions and Division-1 Specifications sections of these Bid Documents apply to this section. The Contractor shall be responsible for, and governed by all requirements thereunder.

In addition to the Codes and Standards listed in Section 01090, the published specifications, standards and methods of the trade cited below shall apply to the Work of this Section.

- A. United States Gypsum's "Drywall Construction Handbook" with Product and Construction Standards (DCH), Latest Edition.
- B. Gypsum Association's Brochure GA216 "Application and Finishing of Gypsum Board".

1.03 SUBMITTALS

Submittals shall be in accordance with SUBMITTALS Section and shall include complete list of materials with name of manufacturer.

1.04 JOB CONDITIONS

Control heating and ventilating during finishing operations to ensure uniform temperature in the range of 55 degrees to 70 degrees F. Provide ventilation to remove excess moisture.

PART 2: PRODUCTS

2.01 INTERIOR GYPSUM WALLBOARD PANELS

- A. Fire Rated Panels: Gypsum panels 5/8" thick, fire-resistant approved for rated construction, conforming to the requirement of ASTM C36. Refer to the Drawings for locations. "Gold Bond Fire-Shield" as manufactured by National Gypsum, or equal product of United States Gypsum, Georgia Pacific, or other manufacturer approved by the Architect.

- B. Moisture-Resistant Panels: Gypsum panels 5/8" thick, moisture-resistant formulation, fire-resistant approved for rated construction, conforming to the requirement of ASTM C36. Refer to the Drawings for locations. "Gold Bond MR Type X" as manufactured by National Gypsum, or equal product of United States Gypsum, Georgia Pacific, or other manufacturer approved by the Architect.
- C. Overlay Panels: Gypsum panels 1/4" thick, conforming to the requirement of ASTM C36. Refer to the Drawings for locations. "Gold Bond" as manufactured by National Gypsum, or equal product of United States Gypsum, Georgia Pacific, or other manufacturer approved by the Architect.
- D. Flexible Panels: Gypsum panels 1/4" thick, conforming to the requirement of ASTM C36. Refer to the Drawings for locations. "High Flex" as manufactured by National Gypsum, or equal product of United States Gypsum, Georgia Pacific, or other manufacturer approved by the Architect.

2.02 JOINT SYSTEM

The joint system, including tape and compounds, shall be a system recommended by the manufacturer of the gypsum panels used as compatible with the gypsum panels.

- A. Mold-Resistant Compound: A single compound for embedment of tape and finishing, as recommended by the manufacturer of the gypsum panels and certified as mold-resistant. "Proform XP Ready Mix" as manufactured by National Gypsum, or equal product of United States Gypsum, Georgia Pacific, or other manufacturer approved by the Architect.

2.03 FASTENERS

All fasteners shall be specially designed for application of gypsum panels to the studs and shall be the length and pattern recommended by the manufacturer of the gypsum panels used, for the type of studs present, and in accordance with the C.B.C.

2.04 METAL CORNERBEAD, TRIMS, AND ACCESSORIES

- A. Edges of wallboard which abut other surfaces and are visually exposed, edges of wallboard which would be visually exposed, and external angles shall be protected with metal trim. Where noted on Drawings, the edge trim shall be anodized aluminum intended to be left unpainted.
 - 1. Cornerbead: As recommended by Gypsum Wallboard Manufacturer.
 - 2. Edge Trim: As recommended by Gypsum Wallboard Manufacturer.

2.05 OTHER MATERIALS

All other materials, not specifically described but required for a complete and proper installation of gypsum wallboard, shall be as selected by the Contractor subject to approval of the Architect.

PART 3: EXECUTION

3.01 INSTALLATION - GYPSUM BOARD

- A. General: Install all panels plumb, level, and with all vertical joints on bearing.
- B. Cutting: For cut-outs in panels for pipes, fixtures, and other small openings, make holes and cut-outs by sawing or by such other method as will not fracture the core or tear the covering and with such accuracy that plates, escutcheons, or trim will cover the edges. The use of "core-and-knockout" method will not be permitted.
- C. Fastening:
 - 1. Properly space all fasteners in careful accordance with the manufacturer's recommendations and Code requirements, with heads driven slightly below the surface for proper cementing but without breaking the paper cover. Fasteners shall start 3" maximum from panel ends and shall be spaced in accordance with C.B.C. unless otherwise indicated on the Drawings.
 - 2. Loosely butt all joints to be taped; firmly butt all joints to be left untreated.
 - 3. Stagger all end joints between panels to achieve a maximum of bridging and a minimum of continued joints.

3.02 INSTALLING METAL TRIM

- A. General: The Drawings do not purport to show all metal trim required. The precise locations and types of trim to be used shall be determined by the existing conditions which must be matched.
- B. Installation:
 - 1. Install all trim in strict accordance with the manufacturer's recommendations, paying particular attention to make all trim installation plumb, level, and true to line, with firm attachment to supporting members.

3.03 TAPING AND FINISHING

- A. First Coat:

1. Spread compound evenly over all joints, using suitable tools designed for the purpose.
 2. Fill all joint recesses and metal trim.
 3. Center the reinforcing tape on the joint and press into the fresh compound, wiping down with sufficient compound under the tape for proper bond.
 4. Feather all edges and leave the surface free from blisters and tape wrinkles.
 5. Apply compound to all fastener recesses, leaving flush with the adjacent surfaces.
 6. Fold reinforcing tape along its centerline and apply to all interior angles, following the same procedure as for joints.
- B. Second Coat:
1. Lightly sand the dry compound with fine sandpaper to remove all irregularities.
 2. Apply a second coat of compound to all joints, feathering approximately three inches beyond edges of tape.
 3. Apply second coat to all fastener recesses; allow to dry.
- C. Third Coat:
1. Lightly sand the dry compound with fine sandpaper to remove all irregularities.
 2. Apply final skim coat, feathering out approximately two inches beyond second coat.
 3. Third coat all fastener recesses and metal trim, and all interior angles; allow to dry.

3.04 CLEANING UP

Do not allow the accumulation of scraps and debris arising from the Work of this Section, but maintain the premises in a neat and orderly condition at all times; in the event of spilling or splashing of compound onto other surfaces, immediately remove the spilled or splashed material and all trace of the residue to the approval of the Architect.

3.05 SCHEDULE OF FINISHES

The following finishes shall be applied to the drywall surfaces within the scope of this Section. Refer to the Finish Schedule for specific location of each finish.

CT, WP, VWC, EWC Uniformly smooth and ready to receive ceramic tile, prefinished wall panels, vinyl wall covering or epoxy wall coatings.

P-* Spray textured to match walls in remainder of building.

End Of Section 09252

SECTION 09500: ACOUSTICAL CEILING TREATMENT

PART 1: GENERAL

1.01 RELATED DOCUMENTS

Drawings and general provisions of Contract, including General and Supplementary Conditions and Division-1 Specification sections, apply to work of this section.

1.02 DESCRIPTION OF WORK

- A. Work Included in This Section: Provision of acoustical ceilings required for this Work as scheduled and indicated on the Drawings.
- B. Related Work Specified Elsewhere:
 - 1. GYPSUM WALLBOARD Section
 - 2. MECHANICAL Section
 - 3. ELECTRICAL Section

1.03 SUBMITTALS

Submittals shall be in accordance with SUBMITTALS Section and shall include the following:

- A. Complete list of materials with name of manufacturer.
- B. Shop drawings indicating details of all methods of installation, suspension proposed to be used, layout of the grid system, fields and all lateral restraint details.
- C. Samples:
 - 1. Two samples of each type of acoustical material to be installed.
 - 2. Two samples of ceiling grid material when requested by the Architect.

1.04 EXTRA MATERIALS

Refer to Section 01935 for quantities of materials to be delivered to the Owner for repair and replacement.

PART 2: PRODUCTS

2.01 GRID SYSTEMS

- A. All grid systems shall be in the pattern indicated on the Drawings and shall be as specified.

- B. All systems shall be complete with all hangers, supporting members, anchors, wall cornices, and adapters for light fixtures and ceiling grilles, plus all accessories of every nature required for a complete installation.
- C. All exposed surfaces shall have factory baked enamel finish, color as indicated.
- D. Systems for conventional acoustical ceiling panels shall be rated for medium duty; systems for cementitious wood fiber panels shall be rated for heavy duty.
- E. Systems shall be fire rated where indicated.

2.02 ACOUSTICAL CEILING PANELS

- A. All acoustical ceiling panels shall be the product of one manufacturer and shall have similar face appearances, acceptable to all governing authorities for the application scheduled. All acoustical units shall have a flame spread index of 0-25 in accordance with Class I requirements of Federal Specification SS-S-118a, unless otherwise scheduled.
- B. Acoustical panels shall be fire rated where indicated.

2.03 WIRE HANGERS

Hangers shall be galvanized, soft-annealed, mild steel wire, 12 gauge minimum.

2.04 OTHER MATERIALS

All other materials, not specifically described but required for a complete and proper installation of suspended acoustical, shall be as selected by the Contractor subject to the approval of the Architect.

2.05 ACOUSTIC CEILING PANELS SCHEDULE

As listed in Drawings.

PART 3: EXECUTION

3.01 INSTALLATION OF GRID

- A. General: Ceiling Grid shall be installed in accordance with CBC Standards and manufacturer's directions.
- B. Installation:

1. Erect metal grid members to achieve the pattern shown on the Drawings, spacing member symmetrically about the centerline of areas in both directions.
 2. Space hanger wires a maximum of four feet on centers along main runners. Attached wires to structure as indicated on Drawings.
 3. Install separate hanger wires for light fixtures, in accordance with governing codes and as required by Division 16 of these Specifications.
 4. Accurately level all main runners; space main runners a maximum of four feet on centers.
 5. Space cross members as required and secure to main runners and wall angles in accordance with the approved Shop Drawings.
 6. Securely anchor all wall angle members in place.
- C. Lateral Bracing: Provide lateral bracing consisting of at least four 12 gauge wires secured to the main runner within 2 inches of the cross runner intersection. Wires shall be splayed 90 degrees from each other at an angle not exceeding 45 degrees from the plane of the ceiling. Horizontal restraint points shall be placed within 4 feet of the surrounding wall and not over 12 feet on center. Secure lateral bracing to structure. Install in accordance with CBC Standards.
- D. Soffits: Where indicated, shall be constructed as detailed and in accordance with manufacturer's instructions. Provide additional hang wires, wall angles and corner reinforcing as required.

3.02 INSTALLATION OF SUSPENDED ACOUSTICAL CEILING PANELS

- A. Install all acoustical ceiling tile systems so that linearity of facing is in one direction only, or as directed by the Architect.
- B. Acoustical lay-in units shall be installed to rest tightly on grid flanges and shall be secured on 4 sides by hold-down clips, where specified. Vertical acoustical panels at suspended soffits shall be secured with two hold down clips at each grid member.

3.03 ADJUST AND CLEAN

Completely remove all fingerprints and traces of soil from the surfaces of grid and acoustical ceiling materials, using only those cleaning materials specifically recommended for the purpose by the manufacturers of the materials cleaned.

3.04 CLEAN-UP

- A. Upon completion of the application, remove from floors and adjacent areas any overspray and all debris and waste, and leave the work area in a broom clean condition. Clean up and properly dispose of drop cloths, empty paper bags and adhesive barrels.

End Of Section 09500

SECTION 09660: RESILIENT FLOORING

PART 1: GENERAL

1.01 RELATED DOCUMENTS

Drawings and general provisions of Contract, including General and Supplementary Conditions and Division-1 Specification sections, apply to work of this section.

1.02 DESCRIPTION OF WORK

- A. Work Included in This Section: Provision of resilient flooring indicated and scheduled on the Drawings including, but not necessarily limited to, premium vinyl floor tiles and vinyl composition sheet flooring.
- B. Related Work Specified Elsewhere:
 - 1. CARPETING Section

1.03 SUBMITTALS

Submittals shall be in accordance with the SUBMITTALS Section of these Specifications and shall include a complete list of all materials and installation methods to be furnished under this portion of the work. Three identical sets of samples of all colors available in the product specified shall be submitted to the Architect.

1.04 EXTRA MATERIALS

Refer to Section 01935 for quantities of materials to be delivered to the Owner for repair and replacement.

PART 2: PRODUCTS

2.01 PERFORMANCE STANDARDS

- A. This specification uses the products of Burke Flooring to establish a minimum standard for material performance. Products of other manufacturers that meet or exceed these established standards may be substituted if required documentation is submitted to the Architect in the prescribed manner and approval obtained.
- B. Manufacturer: Burke Flooring

2.02 PREMIUM VINYL FLOOR TILE

- A. General: All premium vinyl floor tile shall be the product of one manufacturer and shall, to the maximum extent possible, be of a single batch number.

1. Field Tile: All field tile shall be 18.5" x 18.5" x 1/8", and shall have a 20-mil wear layer.
 - a. Burke Flooring "Luxury Vinyl Tiles – Slate or Concrete", or approved equal product from other manufacturer.
 - b. Color/pattern as selected by Architect from full range.
2. Accent Stripes: All accent stripes shall be cut from tile which shall be 18.5" x 18.5" x 1/8", and shall have a 20-mil wear layer.
 - a. Burke Flooring "Luxury Vinyl Tiles – Solid", or approved equal product from other manufacturer.
 - b. Color as selected by Architect from full range.

2.03 BASE

Rubber cove topset base, height as listed in Finish Schedule, in Commercial and Decorator colors as selected by the Architect. Provide factory premolded outside corners. Burke Flooring, Inc., or equal. Vinyl topset base will not be accepted.

2.04 OTHER MATERIALS

All other materials, including adhesives, crack fillers and underlayment, not specifically described but required for a complete and proper installation of resilient flooring, shall be as recommended by the flooring manufacturer and shall be subject to the approval of the Architect.

- A. Edge Strips: Vinyl beveled edging, 1" wide by thickness to match floor tile, Mercer, Roppe, or equal, unless otherwise indicated on the Drawings. Color as selected by the Architect from manufacturer's standards.

2.05 COLORS AND PATTERNS

Colors and Patterns: All colors and patterns shall be as selected by the Architect from the full range of colors and patterns.

PART 3: EXECUTION

3.01 PREPARATION OF FLOOR SURFACES

- A. Floor surfaces that are to receive flooring shall be clean, thoroughly dry, smooth, firm and sound, and free from springiness, oil, paint, wax, dirt, and any other damaging material. Concrete curing compounds, other than the type that does not adversely affect adhesive, shall be entirely removed from the slabs.

- B. Grind all ridges and other uneven surfaces smooth. Cut out and fill cracks 1/16 inch wide and wider with a crack filler as specified for this application. Provide latex underlayment to fill the remaining holes, cracks, and depressions, and for smoothing, leveling, and feather edging the concrete. Remove loose particles, vacuum chalky, dusty surfaces and prime the cleaned surfaces if recommended by the flooring manufacturer.

3.02 INSTALLATION

Install resilient flooring and topset base in strict accordance with the original design and the manufacturer's recommendations. Adhesives for flooring and base shall be as recommended by manufacturer.

- A. Start Application of flooring at edge of carpet and in the center of the room or area, and work towards the edges. Keep tile lines and joints square, symmetrical, tight, and even; and keep each floor in a true, level plane, except where indicated to be sloped. Vary edge width as necessary to maintain full-size tiles in the field but no edge tile shall be less than one-half the field tile size, except where irregular shaped rooms make it impossible.
- B. Cutting: Cut flooring to and fit around permanent fixtures, built-in furniture and cabinets, pipes, and outlets. Cut edges, fit, and scribe to walls and partitions after field flooring has been applied.
- C. Edge Strips: Provide edging strips where flooring terminates at points higher than the contiguous finished flooring, except at doorways where thresholds are provided. At doorways, edge strips shall be one piece full width of opening and located under door.

3.03 CLEANING AND PROTECTION

- A. Cleaning:
 - 1. Upon completion of the installation, immediately remove all surplus adhesive from adjacent surfaces.
 - 2. After installation, and in accordance with the timing recommended by the manufacturers, clean the entire resilient flooring surface using the materials recommended for that purpose by the manufacturer.
- B. Protection: Provide a non-staining paper pathway taped to the installed resilient flooring in direction of foot traffic throughout the work and remove only at completion of Work.

End Of Section 09660

SECTION 09685: CARPETING

PART 1: GENERAL

1.01 DESCRIPTION OF WORK

- A. Work Included in This Section: Provide all labor and materials required to furnish glue-down tile carpeting where indicated on drawings, finish schedule, and as herein specified.
- B. Related Work Specified Elsewhere:
 - 1. RESILIENT FLOORING Section.

1.02 INCORPORATED DOCUMENTS

The provisions and requirements of the General and Supplementary Conditions and Division-1 Specifications sections of these Bid Documents apply to this section. The Contractor shall be responsible for, and governed by all requirements thereunder.

1.03 SUBMITTALS

Submittals shall be in accordance with SUBMITTALS Section and shall include the following:

- A. Samples:
 - 1. Before any carpeting materials are delivered to the job site, submit to the Architect three identical sets of Samples of all colors of carpeting available in the product specified.
- B. Manufacturer's Recommendations: Provide two copies of the manufacturer's currently recommended methods of installation for the specified materials atop raised access floor systems.
- C. Installer Certification: Provide written evidence that the installer has been certified by the carpet manufacturer to install their modular products.
- D. Certificate of Conformance: The manufacturer shall submit to the Architect with the above submittals a certificate of compliance attesting that the carpet meets all the requirements specified herein. The certificate shall be signed by an officer of the Company.

PART 2: PRODUCTS

2.01 PERFORMANCE STANDARDS

- A. This specification uses the products of Tarkett / Tandus Centiva to establish a minimum standard for material performance. Products of other

manufacturers that meet or exceed these established standards may be substituted if required documentation is submitted to the Architect in the prescribed manner and approval obtained.

- B. Manufacturer: Tarkett / Tandus Centiva

2.02 MATERIALS

- A. All materials shall be new and in first quality condition consistent with industry standards, and as herein specified.
 - 1. Carpet shall meet Class I rating in accordance with ASTM E-648 critical radiant flux requirements.
 - 2. Permanent anti-static control shall be built into the yarn to reduce shock built-up to a maximum of 3.0 kilovolts at 70 degrees F. and 20 percent relative humidity.
 - 3. Permanent anti-microbial protection shall be engineered into the fiber polymer to resist fungus and bacterial growth and prevent the development of mold and mildew.
- B. Colors shall be selected from manufacturer's standard line except where otherwise noted. See Article 3.05 SCHEDULE for types of carpet required.
- C. Other Materials:
 - 1. Door and edge trims shall be Mercer Imperial, Roppe Rubber Corporation, or equal, vinyl reducer, cemented down type with no exposed fastening, unless otherwise specified, in standard color as selected.
 - 2. Adhesives shall be as recommended by carpet manufacturer for installation over cementitious-filled raised access flooring panels. Adhesives shall allow for removal and re-attachment of carpet.

2.03 EXTRA CARPET MATERIAL

Provide additional boxes of modular carpet tile to total 5% of the installed area.

PART 3: EXECUTION

3.01 GENERAL

- A. The General Contractor shall be responsible for providing a clean and cleared floor, free of holes or depressions and acceptable for installation of all carpet. Any discrepancies shall be immediately reported to the Architect.
- B. The Architect and/or the Owner reserves the right to establish a work area schedule for those areas to be carpeted.

- C. Inspect each piece of carpet before installation and do not install material which is imperfect in any way.
- D. Workmanship and the entire installation shall be of the highest standards of quality and in keeping with manufacturers' recommendations. All work shall be approved and accepted by the Architect and the Owner.

3.02 INSTALLATION

- A. Install all carpeting in strict accordance with the manufacturer's recommended methods of installation over raised access floor systems, as approved by the Architect, unless otherwise required herein.
- B. Install utilizing a monolithic pattern offset by 12" in both directions to the pattern of the raised access floor system to assure complete coverage of the floor panels.
- C. Coordinate as required with raised access floor installer to integrate all grommets, molding and/or boxes at floor penetrations into the finished carpet.

3.03 CLEANING UP

Upon completion of the carpeting installation in each area, visually inspect all carpet installed in that area and immediately remove all dirt, soil, and foreign substance from the exposed face. Inspect all adjacent surfaces and remove all marks and stains caused by the carpet installation. Remove all packaging materials, carpet scraps, and other debris from the carpet installation to the area of the job site set aside for its storage, and vacuum clean all carpeted surfaces. At completion of installation protect carpet until final acceptance.

3.04 PROTECTION

In all carpet areas, provide a temporary non-staining paper pathway in the direction of traffic; to be removed only prior to final acceptance inspection or as otherwise directed by the Architect.

3.05 SCHEDULE

CPT 1

Tarkett / Tandus Centiva "Marled Tweed – Modular ER3"
2' x 2' Carpet Tiles

TYPE OF PRODUCT	Textile Flooring
TOTAL THICKNESS	0.285"
FLAMMABILITY	Class 1
SMOKE DENSITY	450 or Less
INSTALLATION METHOD	Glue-Down over Raised Access Floor System
PATTERN	Marled Tweed 11072
SURFACE TREATMENT	Fluorine-Free Soil Protection
FORMAT	2'x2' Tile

CONSTRUCTION	Patterned Loop
GAUGE	5/64"
STITCHES/ROWS PER INCH	8/Inch
PILE THICKNESS	0.090"
AVERAGE PILE HEIGHT	0.185"
FIBER SYSTEM	Nylon
DYE METHOD	Solution
SECONDARY BACKING	Modular ER3
PRIMARY BACKING	Synthetic Non-Woven
FACE WEIGHT	22 oz/yd
COLOR	As selected by Architect
WARRANTY	Lifetime Limited

Contractor may submit equal products of other manufacturers offering the same or better performance guarantees and warranties for consideration by the Architect. Refer to *SUBMITTALS* section for substitution requirements.

End Of Section 09685

SECTION 09900: PAINTING

PART 1: GENERAL

1.01 DESCRIPTION OF WORK

A. Work Included in This Section:

1. Provide all labor, material, equipment, and services necessary to complete painting and finishing of all exposed surfaces throughout the interior and exterior of the structure, including appurtenances thereto, and top, bottom, and all edges of all wood doors. Except as specifically indicated otherwise, all "paint" finishes other than factory finish shall be job applied.
2. Coatings specified herein or included in the finish schedule are in addition to other coatings which may be required by other sections.
3. Factory applied finishes on electrical panel covers, and devices; mechanical grilles, registers and louvers; fire extinguisher cabinets, and similar items shall be considered prime coats. Surfaces shall be cleaned and de-glossed by sanding or other means prior to field painting to match adjacent surfaces unless otherwise noted.
4. Mechanical and Electrical equipment exposed and visible from the exterior of the building, including roof mounted units, shall be job painted as directed by the Architect.
5. The painting contractor shall examine the specifications for the various other trades and shall thoroughly familiarize himself with all conditions of the work of this Section.

B. Related Work Specified Elsewhere:

1. Prefinishing: Shop priming and factory prefinishing are required on some items described in other Sections of these Specifications.
2. SEALANTS AND CAULKING Section
3. GYPSUM WALLBOARD Section
4. ARCHITECTURAL WOODWORK Section
5. FINISH CARPENTRY AND MILLWORK Section
6. METAL DOORS AND FRAMES Section

C. Definitions: The term "paint", as used herein, includes enamels, paints, sealers, fillers, emulsions, and other coatings whether used as prime, intermediate, or finish coats.

1.02 INCORPORATED DOCUMENTS

The provisions and requirements of the General and Supplementary Conditions and Division-1 Specifications sections of these Bid Documents apply to this section. The Contractor shall be responsible for, and governed by all requirements thereunder.

In addition to the Codes and Standards listed in Section 01090, the published specifications, standards and methods of the trade cited below shall apply to work of this Section.

- A. Recommendations of the Painting and Decorating Contractors of America in their "Modern Guide to Paint Specifications", latest edition.
- B. All materials and application of materials shall comply with the latest regulations of the California Air Resources Board and local Air Pollution Control District having jurisdiction.

1.03 SUBMITTALS

Submittals shall be in accordance with SUBMITTALS Section of these Specifications and shall include the following:

- A. Materials List:
 - 1. Before any paint materials are delivered to the job site, submit to the Architect a complete list of all materials proposed to be furnished and installed under this portion of the Work.
 - 2. Accompanying the materials list submit two copies of the full range of colors available in each of the proposed products.
- B. Samples:
 - 1. Prepare and deliver to the Architect two (2) identical sets of samples:
 - a. Paint samples of each color and sheen selected on 8-1/2" x 11" card stock.
 - b. Samples of each stain, opaque stain and clear finish selected on the same material as that on which the coating will be applied in the Work. Sample size shall be 12" x 12".
- C. Manufacturers' Recommendations: In each case where material proposed is not the material specified or specifically described as an acceptable alternate in this Section of these specifications, submit for the Architect's review the current recommended method of application published by the manufacturer of the proposed material.

1.04 EXTRA STOCK

Upon completion of this portion of the Work, deliver to the Owner an extra stock of paint of each color used in each coating material used, with all such extra stock tightly sealed in clearly labeled containers. See Section 01935 for quantities required.

PART 2: PRODUCTS

2.01 PAINT MATERIALS

A. Manufacturer:

1. All paint materials selected for coating systems for each type of surface shall be the product of a single manufacturer.
2. Acceptable Manufacturers: The paint standard for the County of Tulare has been established as the products of Dunn Edwards. Products of Benjamin Moore, Fuller-O'Brien, and Glidden may be submitted for consideration by the Architect.

B. Compatibility:

1. All paint materials and equipment shall be compatible in use; finish coats shall be compatible with prime coats; prime coats shall be compatible with the surface to be coated; all tools and equipment shall be compatible with the coating to be applied.
2. Thinners, when used, shall be only those thinners recommended for that purpose by the manufacturer of the material to be thinned.

2.02 COLOR SELECTIONS

Bid price shall include up to four (4) different colors on the exterior of the building and up to eight (8) different colors on the interior of the building.

PART 3: EXECUTION

3.01 SURFACE CONDITIONS

A. Inspection:

1. Prior to all work of this Section, carefully inspect the installed work of all other trades and verify that all such work is complete to the point where this installation may properly commence.
2. Verify that paint finishes may be applied in strict accordance with all pertinent codes and regulations and the requirements of these Specifications.

- B. Discrepancies: In the event of discrepancy, immediately notify the Architect. Do not proceed with installation in areas of discrepancy until all such discrepancies have been fully resolved.

3.02 PREPARATION OF SURFACE, GENERAL

- A. Protection: Prior to all surface preparation and painting operations, completely mask, remove, or otherwise adequately protect all hardware, accessories, machined surfaces, plates, lighting fixtures, and similar items in contact with painted surfaces but not scheduled to receive paint.
- B. Priming: Spot prime all exposed nails and other metals which are to be painted with emulsion paints, using a primer recommended by the manufacturer of the coating system.
- C. Cleaning:
 - 1. Before applying paint or other surface treatment, thoroughly clean all surfaces involved.
 - 2. Schedule all cleaning and painting so that dust and other contaminants from the cleaning process will not fall on wet, newly painted surfaces.

3.03 PREPARATION OF WOOD SURFACES

- A. Filling: Nail holes, cracks or defects shall be carefully puttied after the first coat, with putty matching color of stain or paint.
- B. Smoothing:
 - 1. Unless specifically noted to be left rough, smooth all finished wood surfaces exposed to view, using the proper sandpaper.
 - 2. Where so required, use varying degrees of coarseness in sandpaper to produce uniformly smooth and unmarred wood surfaces.
- C. Knots:
 - 1. On small, dry, seasoned knots, thoroughly scrape and clean the surface and apply one coat of good quality knot-sealer before application of the priming coat.
 - 2. On large, open, unseasoned knots, scrape off all pitch and thoroughly clean the area, followed by an application of one coat of good quality knot-sealer.
 - 3. Remove and treat all pitch surfaces as required for large knots.
- D. Dryness: Unless specifically approved by the Architect, do not proceed with the painting of wood surfaces until the moisture content of the wood is 12% or less as measured by a moisture-meter approved by the Architect.

3.04 PREPARATION OF METAL SURFACES

- A. Galvanized Metal:
 - 1. Clean all surfaces thoroughly with mineral spirits until they are completely free from dirt, oil and grease.
 - 2. Apply specified pretreatment wash primer or thoroughly treat the cleaned surface with phosphoric acid etch. Remove all excess etching solution and allow to dry completely before application of paint.
- B. Other Metals: Thoroughly clean all surfaces until they are completely free from dirt, oil and grease. Allow to dry thoroughly before application of paint.
- C. Factory applied finishes on electrical panel covers and devices, mechanical grilles, registers and louvers, fire extinguisher cabinets, and similar items shall be cleaned and de-glossed by sanding or other means prior to field painting.

3.05 PAINT APPLICATION

- A. General:
 - 1. Paint all surfaces except glass, masonry, flat concrete, and similar items not pre-finished and not called out as unfinished.
 - 2. Paint all grilles, registers, louvers and panelboard covers and other mechanical and electrical items to match adjacent surfaces unless noted otherwise.
 - 3. Top, bottom and all edges of all wood doors shall be finished as follows:
 - a. Wood Faced Doors: 3 coats same as for face.
- B. Drying:
 - 1. Allow sufficient drying time between coats. Manufacturer's recommended drying time for re-coating shall be considered as minimum.
 - 2. Extend the period as recommended by the material manufacturer to suit adverse weather conditions.
 - 3. The application of another coat of paint shall not cause lifting or loss of adhesion of the undercoat.
- C. Environmental Conditions:
 - 1. Comply with the manufacturer's recommendations as to environmental conditions under which the coating systems may

be applied. No coating shall be applied when ambient temperature is below that recommended by the manufacturer.

2. Do not apply paint in areas where dust is being generated.

D. Moisture Content: Do not apply the initial coating until moisture content of surfaces are within the limits recommended by the paint materials manufacturer.

E. Defects: Sand and dust between coats to remove all defects visible to the unaided eye from a distance of five feet.

F. Color of Undercoats: Slightly vary the color of succeeding coats, except with deep tone colors all coats shall be final color.

3.06 INSPECTION

A. General: Do not apply additional coats until completed coats have been inspected and approved by the Architect.

B. Number of Coats: Only inspected and approved coats of paint will be considered in determining the number of coats applied.

3.07 DRY MIL THICKNESS

A. General: Apply all coatings to the dry mil thickness recommended by the paint manufacturer.

B. Measurement: When specifically requested by the Architect, provide and use a "Tooke Dry Film Thickness Gage", or other gage approved by the Architect, to prove the dry mil thickness of paint applied.

3.08 REINSTALLATION OF REMOVED ITEMS

Following completion of painting in each space, promptly reinstall all items removed for painting, using only workmen skilled in the particular trade.

3.09 ADJUST AND CLEAN

A. General

1. During progress of the Work, do not allow the accumulation of empty containers or other excess items except in areas specifically set aside for that purpose.

2. Prevent accidental spilling of paint materials and, in event of such spill, immediately remove all spilled material and the waste of other equipment used to clean up the spill, and wash the surfaces to their original undamaged condition or replace damaged material, all at no additional cost to the Owner.

B. Prior to Final Inspection: Upon completion of this portion of the Work, visually inspect all surfaces and remove all paint and traces of paint from surfaces not scheduled to be painted.

3.11 PAINTING SCHEDULE

The painting schedule shall be a standard for coatings in areas designated. Refer to Drawings for finish required at specific items and areas. Some types may not be required for this project. The number of coats indicated shall be considered a minimum. Additional coats shall be required if chromatic hue is not uniform in appearance or if undercoat or substrate ghosting is evident. Apply the following specified finishes to the areas designated and indicated on the Drawings.

INTERIOR FINISHES

Type P-1 (interior gypsum drywall – semi-gloss 100% acrylic)

First Coat:	Interior Flat Wall Paint
Second Coat:	Interior Semi-Gloss Arylic Paint
Third Coat:	Interior Semi-Gloss Acrylic Paint

(First Coat may be omitted if re-painting previously painted surfaces)

Type P-2 (interior concrete floor – clear sealer)

First Coat:	Flood Coat Sealer
Second Coat:	Flood Coat Sealer

Type P-3 (Not Used)

Type P-4 (interior ferrous metal – semi-gloss 100% acrylic)

First Coat:	Interior Metal Primer
Second Coat:	Interior Semi-Gloss Arylic Paint
Third Coat:	Interior Semi-Gloss Acrylic Paint

(First Coat may be omitted if re-painting previously painted surfaces)

End Of Section 09900