SECTION 09250 - GYPSUM DRYWALL

PART 1 - GENERAL

RELATED DOCUMENTS

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

DESCRIPTION OF WORK:

Section includes all labor and materials for Gypsum drywall systems including metal framing systems, back-up wall system for brick veneer, miscellaneous furring, sound insulation, exterior sheathing, plaster & drywall accessories, suspended gypsum board ceilings, tile backer boards for application of ceramic tile, noise control ceilings, drywall installation work and drywall finishing (joint tape-and-compound treatment), as indicated on the drawings and as specified herein.

RELATED WORK:

Section 03310. Concrete.
Section 04200. Unit Masonry.
Section 05400. Lightgage Structural Framing.
Section 05500. Metal Fabrications.
Section 07200. Insulation.
Section 09300. Tile.
Section 09900. Painting.

QUALITY ASSURANCE:

1. Fire-Resistance Rating: All gypsum drywall on this project to be type "x" (ASTM E 119), whether or not in required fire rated assemblies.

2. Gypsum Board Terminology Standard: GA-505 by Gypsum Association.

3. Single-Source Responsibility: Provide products from a single manufacturer, are as approved by prime manufacturer.

4. Deflection Limit: Metal framing system for brick veneer walls shall be limited to L/360 deflection.

SUBMITTALS:

1. Product Data: Manufacturer's specifications and installation instructions for each component including drywall, sheathing, sound batts and accessories.

2. Certification: Provide certification by an Engineer, licensed in the State of Minnesota that metal framing system for veneer brick walls comply with L/360 requirements specified.

DELIVERY, STORAGE AND HANDLING:

Deliver materials in original packages, containers or bundles bearing brand name and identification of manufacturer or supplier.

Store materials, properly stacked, inside under cover and protected. Neatly stack gypsum boards flat to prevent sagging.

Handle gypsum boards to prevent damage to edges, ends or surfaces. Protect metal corner beads and trim from being bent or damaged.

PROJECT CONDITIONS:

Environmental Requirements, General: Follow manufacturers' instructions, and ASTM C 840.

Cold Weather Protection: Follow manufacturers' recommendations, but a minimum of 50o for 48 hours.

Ventilation: as required to reduce excess humidity.

PART 2 - PRODUCTS

MANUFACTURERS:

Subject to compliance with requirements provide products of one of the following:

Steel framing and Furring:

Bostwick Steel Framing Co.
Dale Industries, Inc.
Gold Bond Building Products Div., National Gypsum Co.
United States Gypsum Co.

Direct Suspension Systems:

Chicago Metallic Corp.
National Rolling Mills Co.
United States Gypsum Co.
Kinetics Noise Control, Inc.

Gypsum Board and Related Products:

American Gypsum Co.
Flintkote Products, Genstar Building Materials Co.
Georgia-Pacific Corp.
Gold Bond Building Products Div., National Gypsum Co.
United States Gypsum Co.

STEEL FRAMING COMPONENTS FOR SUSPENDED AND FURRED CEILINGS:

General: Comply with ASTM C 754 for materials and sizes.

Wire for hangers and ties: ASTM A 641, Class 1 zinc coating, soft temper.

Hanger rods: #9 mild steel, zinc coated or protected with rust inhibitive paint.

Flat hangers: mild steel, zinc coated or protected with rust inhibitive paint.

Channels: 1- 1/2" deep, cold rolled steel, 0.0598 inch minimum thickness of base (uncoated) metal, and 7/16 inch wide flanges, protected with rust inhibitive paint.

STEEL FRAMING MATERIALS:

General: Comply with ASTM C 754.

Provide main runners, hanger wire (ASTM A641), rods and flats, and anchors as required. Size devices for 3 x calculated load supported except size direct pull-out concrete inserts for 5 x calculated loads.

Steel Members: ASTM C 645; 25 gage runners, 6" studs, 3-1/2" studs, C-sections, Z-sections, hat-shaped, and other sections shown.

Where shown provide Resilient, special sound reduction type.

Steel Rigid Furring Channels: ASTM C 645, 7/8" and 1- 1/2" hat shaped type. Exterior furring members or members in Spa room shall be galvanized.

Furring Anchorages: 16 gage galvanized wire ties, manufacturer's standard wire-type clips, bolts, nails or screws as recommended by furring manufacturer and complying with C 754.

Provide 16 and 18 gage heavy duty "C" shaped steel studs and track enclosures (rails) at all brick veneer walls and interior walls as shown on the drawings. Exterior studs shall be galvanized. Refer to Section 05400.

GYPSUM BOARD PRODUCTS, INTERIOR:

Gypsum Wallboard: ASTM C 36, tapered, type X, 5/8", unless otherwise indicated.

Gypsum Backing Board for Multi-Layer Applications: ASTM C 442, type X, 5/8", unless otherwise indicated.

Water-Resistant Backing Board: ASTM C 630, type X, 5/8", unless otherwise indicated.

Trim Accessories: Corner beads, L-type beads, U-type beads, and one-piece control joint beads(ASTM C 1047, with removable strip).

JOINT TREATMENT MATERIALS:

General: ASTM C 475; type recommended by the manufacturer for the application indicated, except as otherwise indicated.

Joint Tape: Paper reinforcing tape.

Joint Compound: Ready-mixed vinyl-type for interior use, of separate grades; one specifically for bedding tapes and filling depressions, and one for topping and sanding.

Water-Resistant Joint Compound: Special water-resistant type at water-resistant backing board.

EXTERIOR SHEATHING MATERIALS:

Gypsum Sheathing: Provide 5/8" thick gypsum sheathing board complying with FS SS-L-30 for type II, Class 2, form A of water resistant core and square edges. Sizes to be 4' by 8'.

Exterior Gypsum Soffit Board: G-P Gypsum Corp. Dens-Glass Gold sheathing, ASTM C 1177, 1/2", unless otherwise indicated. Install at entrance canopy soffit.

Glass mesh mortar units: cement coated portland cement panels backing units, with glass mesh fiber mesh reinforcing and water resistant coating on both faces.

> High density, 7/16" portland cement surface coating on both faces and lightweight concrete core composed of portland cement and expanded ceramic aggregate, "Wonderboard", as manufactured by Modulars, Inc. Sizes to be 4' x 8' , or as recommended by the Contractor. Install at parapet wall construction (where fire retardant plywood is not permitted), at exterior soffits which receive EIFS or plaster, and other areas as shown on the drawings.

Building Paper: Provide 15# building paper, shingled, with a minimum of a 4" overlap.

Bridging Channel: 1-1/2" metal bridging channel, 20 gage.

Refer to Masonry section 04200, for additional information, masonry fasteners and accessories.

Fasteners: Provide the highest quality galvanized screws as recommended by the gypsum board supplier.

MISCELLANEOUS MATERIALS:

Laminating Adhesive: Special adhesive or joint compound specifically recommended for laminating gypsum boards.

Gypsum Board Screws: Comply with ASTM C 1002.

Concealed Acoustical Sealant: Refer to Section 07900, Joint sealers.

Sound Attenuation Blankets: ASTM C 665, Type I, mineral fiber.

Thermal Insulation: Fiberglas batt insulation with kraft paper face, in thicknesses shown on the drawings.

Foil Faced Sheets: To be used as vapor barrier. Refer to Section 07200, "Insulation".

Acoustical Sealant: Provide a continuous bead of resilient (non-hardening) bead at the edge of each gypsum board surface that abuts or meets dissimilar materials at floors, ceilings and walls. Compress sealant slightly when installing gypsum board.

PART 3 - EXECUTION

EXAMINATION

Examine areas to receive drywall attachment, anchors, or frames. Ensure that subsurface conditions are acceptable prior to installation.

PREPARATION

Ceiling Anchorages: Coordinate work with structural ceiling work to ensure that inserts and other structural anchorage provisions have been installed to receive ceiling hangers.

Furnish concrete inserts, steel deck hanger clips and similar devices to other trades for installation well in advance of time needed for coordination with other work.

INSTALLATION:

Install metal supports per ASTM C 754 and ASTM C 840.

Do not bridge building expansion joints with support system. Frame both sides of joints with furring and other support as indicated.

Ceiling Support Suspension Systems:

Install auxiliary framing at termination of drywall work, and at openings for light fixtures and similar work, as required for support of both the drywall construction and other work indicated for support thereon. Provide supports at 4' centers in each direction, or as recommended by the manufacturer.

WALL/PARTITION SUPPORT SYSTEMS:

Install supplementary framing, blocking and bracing at terminations in the work and for support of fixtures, equipment services, heavy trim, grab bars, wall mounted handrails, toilet accessories, and other furnishings.

Isolate stud system from transfer of structural loading to system, both horizontally and vertically. Provide slip or cushioned type joints to attain lateral support and avoid axial loading.

Install runner tracks at floors, ceilings and structural walls and columns where gypsum drywall stud system abuts other work, except as otherwise indicated.

Extend partition stud system through acoustical ceilings and elsewhere as indicated to the structural support or substrate above the ceiling.

Space studs 16" o.c., unless otherwise indicated.

BRICK VENEER BACK-UP FRAMING SYSTEM:

Install metal studs and top/bottom supports in sizes specified. At midheight of stud wall, provide continuous bridging channel, secured to studs.

Install gypsum sheathing in accordance with manufacturers recommendations. Over entire wall lay up and secure building paper, in a shingle fashion with a minimum of 4" overlap.

Refer to Section 04200, for installation of masonry anchors and brick veneer.

Install Batt insulation at interior side after all rough-in work by other trades is complete. Refer to Section 07200.

Install foil facer sheets on interior side of exterior insulated walls per ASTM C 755. Seal joints by lapping and

bonding with tape. Extend coverage to extremities of areas to receive retarders. Seal punctures, tears and penetrations through retarders with tape. Refer to Section 07200.

Provide galvanized studs at all exterior walls and high-moisture areas. Where required for the attachment of miscellaneous angles, plates, bent plates, etc., weld connections may be performed in accordance with AWS standards. At welded connections, contractor shall touch-up galvanizing with galvanized paint prior to application of gypsum board sheathing, building paper, brick, etc. and other materials in veneer back-up framing system.

Galvanizing repair paint is specified in Section 05500.

GENERAL GYPSUM BOARD INSTALLATION REQUIREMENTS:

Gypsum Board Application and Finishing Standards: ASTM C 840 and GA 216.

Install sound attenuation blankets at all interior walls and as indicated, prior to gypsum board unless readily installed after board has been installed.

Install ceiling and wall boards minimizing the number of end-butt joints. Stagger end joints at least 1'-0". Butt boards together for a light contact at edges and ends with not more than 1/16" open space between boards. Do not force into place.

Located either edge or end joints over supports, except in horizontal applications or where intermediate supports or gypsum board back-blocking is provided behind end joints. Position boards so that like edges abut, tapered edges against tapered edges and mill-cut or field-cut ends against mill-cut or field- cut ends. Do not place tapered edges against cut edges or ends. Stagger vertical joints over different studs on opposite sides of partitions.

Attach gypsum board to supplementary framing and blocking provided for additional support at openings and cutouts.

Provide for expansion joints at continuous walls and ceilings at a maximum of 30' on center.

Isolate perimeter of non-load-bearing drywall partitions at structural abutments. Provide 1/4" to 1/2" space and trim edge with L-type semi-finishing edge trim. Seal joints with acoustical sealant.

Space fasteners in gypsum boards in accordance with referenced standards and manufacturer's recommendations, except as otherwise indicated.

Isolate steel framing from building structure to prevent the transfer of loading imposed by structural movement, where edges of suspended ceilings abut building structure horizontally at ceiling perimeters, where partition and wall framing abuts overhead structure, or at the penetration of structural elements through suspended ceilings.

METHODS OF GYPSUM DRYWALL APPLICATION:

Wall Tile Base: Where drywall is base for thin-set ceramic tile and similar rigid applied wall finishes, install gypsum backing board.

Double-Layer Application: Install gypsum backing board for base layer at right angles to exposed gypsum board with at least 10" between joints. Fasten base layers and face layers with separate screws.

INSTALLATION OF DRYWALL TRIM ACCESSORIES:

General: Where feasible, use the same fasteners to anchor trim accessory flanges as required to fasten gypsum

board to the supports. Otherwise, fasten flanges by nailing or stapling in accordance with manufacturer's instructions and recommendations.

Install metal corner beads at external corners of drywall work with screws.

Install metal edge trim whenever edge of gypsum board would otherwise be exposed or semi-exposed. Install L-type trim where work is tightly abutted to other work. Install U-type trim where edge is exposed, revealed, gasketed, or sealant-filled (including expansion joints).

Install metal control joint (beaded-type) where indicated, or as specified above.

INSTALLATION OF STEEL FRAMING FOR WALLS AND PARTITIONS:

Install runners at floors, ceilings, and structural walls and columns where gypsum drywall stud system abuts other construction.

Installation Tolerances: Install each steel framing and furring member so that fastening surface does not vary more than 1/8 inch from plane of faces of adjacent framing.

Extend partition framing full height to structural supports, unless noted otherwise on the drawings.

INSTALLATION OF STEEL FRAMING FOR SUSPENDED CEILINGS:

Do not connect or suspend steel framing from ducts, pipes or conduit.Keep hangers and braces 2 inches clear of ducts, pipes and conduits.

Wire Hangers: 0.1620 inch diameter, 4' on centers each direction.

Carrying Channels: 1-1/2", 4' on center each direction.

Installation tolerances: cross furring members or grid suspension members are to be level within 1/8" in 12 ft. as measured both lengthwise on each member and transversely between parallel members.

Wire tie or clip furring members to main runners and to other structural supports.

Grid Suspension System: Attach perimeter wall track or angle where grid suspension system meets vertical surfaces. Mechanically join main beam and cross furring members to each other and butt-cut to fit into wall track.

For extr\erior soffits: provide cross bracing and additional framing required to resist wind uplift.

FINISHING OF DRYWALL:

General: Apply tape and compound at joints, accessories, penetrations, fasteners, surface defects and as required to prepare work for decoration, with a minimum of three coats.

Water-Resistant Gypsum Board Base for Ceramic Tile: Treat joints and fasteners to comply with directions of water-resistant joint compound manufacturer.

Partial Finishing: "Fire taping" is permitted at non-exposed or concealed drywall.

PROTECTION OF WORK:

Provide final protection and maintain conditions, in a manner suitable to Installer, which ensures gypsum drywall work being without damage or deterioration at time of substantial completion.

END OF SECTION 09250

SECTION 09300 - TILE

PART 1 - GENERAL

RELATED DOCUMENTS:

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

DESCRIPTION OF WORK:

Definition: Tile includes ceramic surfacing units made from clay or other ceramic materials.

Extent of tile work is indicated on drawings and schedules included at end of this section.

Types of tile work in this section include the following:

Unglazed ceramic floor tile.
Glazed wall tile.

Sealing expansion and other joints in tile work with elastomeric joint sealers is work of this section.

QUALITY ASSURANCE:

Source of Materials: Provide materials obtained from one source for each type and color of tile, grout and setting materials.

SUBMITTALS:

Product Data: Submit manufacturer's technical information and installation instructions for materials required, except bulk materials.

Shop Drawings: Submit shop drawings indicating tile patterns and locations and widths of control, contraction and expansion joints in tile surfaces.

Samples for Initial Selection Purposes: Submit manufacturer's color charts consisting of actual tiles or sections of tiles showing full range of colors, textures and patterns available for each type of tile indicated. Include samples of grout and accessories involving color selection.

Samples for Verification Purposes: Submit the following:

Samples for each type of tile and for each color and texture required, not less than 12" square, on plywood or hardboard backing and grouted.

Full size samples for each type of trim, accessory and for each color.

Samples of metal edge strip.

Certification: Furnish Master Grade Certificates for each shipment and type of tile, signed by manufacturer and Installer.

Certified Test Reports: Submit certified test reports from a qualified independent testing laboratory evidencing compliance of tile and tile setting products with requirements specified based on comprehensive testing of current products. Include in reports testing laboratory's interpretation of test results relative to specified requirements.

DELIVERY, STORAGE, AND HANDLING:

Deliver and store packaged materials in original containers with seals unbroken and labels intact until time of use. Prevent damage or contamination to materials by water, freezing, foreign matter or other causes.

PROJECT CONDITIONS:

Maintain environmental conditions and protect work during and after installation to comply with referenced standards and manufacturer's printed recommendations.

Vent temporary heaters to exterior to prevent damage to tile work from carbon dioxide buildup.

Maintain temperatures at not less than 50 deg F (10 deg C) in tiled areas during installation and for 7 days after completion, unless higher temperatures are required by referenced installation standard or manufacturer's instructions.

PART 2 - PRODUCTS

ACCEPTABLE MANUFACTURERS:

Available Manufacturers: Subject to compliance with requirements, provide products of one of the following:

Manufacturers of Unglazed Ceramic Mosaic Tile:

American Olean Tile Co., Inc.
Dal-Tile Corp.
Summitville Tiles, Inc.
United States Ceramic Tile Co.

Manufacturers of Glazed Wall Tile:

American Olean Tile Co., Inc.
Buchtal Quality Ceramics.
Dal-Tile Corp.
Florida Tile Div., Sikes Corp.
Porcelain USA.

Manufacturers of Organic Adhesives, Type I:

American Olean Tile Co., Inc.
Boiardi Products Corp.
Cambridge Tile Mfg. Co.
Custom Building Products.
C-Cure Chemical Co., Inc.
H.B. Fuller Co.
Jamo, Inc.

L & M Surco Mfg., Inc.
Southern Grouts & Mortars, Inc.
Syracuse Adhesives Co.
Upco Co. Div., Emhart Corp.

Manufacturers of Latex Portland Cement Grouts:

American Olean Tile Co., Inc.
Boiardi Products Corp.
Cambridge Tile Mfg. Co.
Custom Building Products.
C-Cure Chemical Co., Inc.
H.B. Fuller Co.
Jamo, Inc.
L & M Surco Mfg., Inc.
Southern Grouts & Mortars, Inc.
Syracuse Adhesives Co.
Upco Co. Div., Emhart Corp.
W.R. Bonsal Co.

PRODUCTS, GENERAL:

ANSI Standard for Ceramic Tile: Comply with ANSI A137.1 "American National Standard Specifications for Ceramic Tile" for types and grades of tile indicated.

Furnish tile complying with "Standard Grade" requirements unless otherwise indicated.

ANSI Standard for Tile Installation Materials: Comply with ANSI standard referenced with products and materials indicated for setting and grouting.

Colors, Textures and Patterns: For tile, grout and other products requiring selection of colors, surface textures or other appearance characteristics, provide products to match characteristics indicated or, if not otherwise indicated, as selected by Architect from manufacturer's standards.

Provide tile trim and accessories which match color and finish of adjoining flat tile.

Mounting: Where factory-mounted tile is required provide back- or edge-mounted tile assemblies as standard with manufacturer unless another mounting method is indicated.

TILE PRODUCTS:

Unglazed Ceramic Tile (Guest Bathrooms): Provide factory-mounted flat tile complying with the following requirements:

Type: Porcelain
Wearing Surface: Without abrasive content.
Nominal Facial Dimensions: 8" x 8", square.
Nominal Thickness: 1/4".
Face: Plain with cushion or square edges.

Glazed Wall Tile: Provide flat tile complying with the following requirements:

Nominal Facial Dimensions: 4-1/4" x 4-1/4".
Nominal Thickness: 5/16".

Face: Plain with cushion edge.
Mounting: Factory back-mounted.

Unglazed Ceramic Tile(Lobby/Breakfast Area): Provide flat tile complying with the following requirements:

Nominal Facial Dimensions: 18" x 18".
Nominal Thickness: 1/4".
Face: Plain with cushion edge.

Trim Units: Provide tile trim units to match characteristics of adjoining flat tile and to comply with following requirements:

Size: As indicated, coordinated with sizes and coursing of adjoining flat tile, where applicable.

Shapes: As follows, selected from manufacturer's standard shapes:

Base for Thinset Installations: Coved.

Edge for Thinset Installations: Bullnose.

SETTING MATERIALS:

Organic Adhesive: Provide product complying with ANSI A136.1 for Type I.

GROUTING MATERIALS:

Latex-Portland Cement Grout: Provide product complying with ANSI A118.6 for the following composition and of color indicated:

Prepackaged dry grout mix incorporating dry polymer additive in the form of a re-emulsifiable powder to which only water is added at job site.

ELASTOMERIC SEALANTS:

Elastomeric Sealant Standard: Provide manufacturer's standard chemically curing, elastomeric sealant of base polymer indicated which complies with ASTM C 920 requirements, including those for Type, Grade, Class and Uses.

Compatibility: Provide sealants, joint fillers and other related materials that are compatible with one another and with joint substrates under conditions of service and application, as demonstrated by testing and field experience.

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

One-Part Mildew Resistant Silicone Sealant: Type S; Grade NS; Class 25; Uses NT, G, A, and as applicable to nonporous joint substrates indicated, O; formulated with fungicide for sealing interior joints in and around ceramic tile, showers, sinks and plumbing fixtures.

Available Products: Subject to compliance with requirements, products which may be incorporated in the work include, but are not limited to, the following:

"Dow Corning 786"; Dow Corning Corp.
"SCS 1702"; General Electric Co.
"863 #345 White"; Pecora Corp.

"Proglaze White"; Tremco Corp.

CEMENTITIOUS BACKER UNITS (GLASS MESH MORTAR UNITS)

Proprietary backing units with glass fiber mesh reinforcing and water-resistant coating on both faces, complying with either of the following requirements:

Cement-Coated Portland Cement Panels: High-density portland cement surface coating on both faces and lightweight concrete core composed of portland cement and expanded ceramic aggregate; fabricated in panels 7/16-inch thick by 36 inches wide by 36, 48, 60, 64, or 72 inches long and weighing 3.2 to 3.8 psf.

Vinyl-Coated Portland Cement Panels: Core formed in a continuous process from aggregated portland cement slurry and reinforced with vinyl-coated woven glass fiber mesh embedded in both surfaces, with one face smooth and other textured; fabricated in panels 1/2-inch thick and by 36 inches wide by 48, 60, and 72 inches long; and weighing 3 lbs psf.

Mortar Unit Finishing Materials: Tape and joint compounds as recommended by manufacturer of cementitious backer units.

Products: Subject to compliance with requirements, provide one of the following products:

"Wonder-Board"; Modulars Inc.
"Durock Tile Backer Board"; Durabond Div., USG Industries, Inc.

MIXING MORTARS AND GROUT:

Mix mortars and grouts to comply with requirements of referenced standards and manufacturers for accurately proportioning of materials, water or additive content, mixing equipment and mixer speeds, mixing containers, mixing time, and other procedures needed to produce mortars and grouts of uniform quality with optimum performance characteristics for application indicated.

PART 3 - EXECUTION

EXAMINATION:

Examine surfaces to receive tile work and conditions under which tile will be installed. Do not proceed with tile work until surfaces and conditions comply with requirements indicated in referenced tile installation standard.

INSTALLATION, GENERAL:

ANSI Tile Installation Standard: Comply with applicable parts of ANSI 108 series of tile installation standards included under "American National Standard Specifications for the Installation of Ceramic Tile".

TCA Installation Guidelines: TCA "Handbook for Ceramic Tile Installation"; comply with TCA installation methods indicated or, if not otherwise indicated, as applicable to installation conditions shown.

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

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

Jointing Pattern: Unless otherwise shown, lay tile in grid pattern. Align joints when adjoining tiles on floor, base, walls and trim are same size. Layout tile work and center tile fields in both directions in each space or on each wall area. Adjust to minimize tile cutting. Provide uniform joint widths, unless otherwise shown.

For tile mounted in sheets make joints between tile sheets same width as joints within tile sheets so that extent of each sheet is not apparent in finished work.

Grout tile to comply with the requirements of the following installation standards:

For ceramic tile grouts (sand-portland cement, dry-set, commercial portland cement, and latex-portland cement grouts) comply with ANSI A108.10.

FLOOR INSTALLATION METHODS:

Ceramic Mosaic Tile: Install tile to comply with requirements indicated below for setting bed methods, TCA installation methods related to types of subfloor construction, and grout types:

Organic Adhesive: ANSI A108.4.

Concrete Subfloors, Interior: TCA F116.
Wood Subfloors, Interior: TCA F142.

Grout: Latex-portland cement.

WALL TILE INSTALLATION METHODS:

Install types of tile designated for wall application to comply with requirements indicated below for setting bed methods, TCA installation methods related to subsurface wall conditions, and grout types:

Organic Adhesive: ANSI A108.4.
Gypsum Board, Interior: TCA W242.

Dry-Set Portland Cement Mortar: ANSI A108.5
Masonry, Exterior: TCA W202.

Grout: Latex-portland cement.

CLEANING AND PROTECTION:

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

Unglazed tile may be cleaned with acid solution only when permitted by tile and grout manufacturer's printed instructions, but no sooner than 14 days after installation. Protect metal surfaces, cast iron and vitreous plumbing fixtures from effects of acid cleaning. Flush surface with clean water before and after cleaning.

Finished Tile Work: Leave finished installation clean and free of cracked, chipped, broken, unbonded, or otherwise defective tile work.

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

Prohibit foot and wheel traffic from using tiled floors for at least 7 days after grouting is completed.

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

VERIFY SPECIFIC TILE REQUIRED WITH OWNER AND/OR OWNER'S INTERIOR DESIGNER

END OF SECTION 09300

SECTION 09510 - ACOUSTICAL CEILINGS

PART 1 - GENERAL

RELATED DOCUMENTS:

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

SUMMARY:

Section includes acoustical ceiling tiles and suspension systems as shown and scheduled on drawings, and as specified herein.

SUBMITTALS:

1. Product Data: Manufacturer's technical data and installation instructions.

2. Coordination Drawings: Submit reflected ceiling plans, prepared by Installer showing suspension members, method of anchorage, hangers, and ceiling-mounted work.

3. Samples: Submit one full-sized panel sample of each acoustical panel type, pattern and color, 12" long samples of exposed runners and moldings for each color and system type required.

QUALITY ASSURANCE:

1. Fire Performance Characteristics: Provide acoustical ceiling components tested for the following: Surface Burning Characteristics, with flame Spread of 25 or less, Smoke Developed of 50 or less.

2. Coordination of Work: Coordinate layout and installation of acoustical ceiling units and suspension system components with other work supported by, or penetrating through, ceilings, including light fixtures, HVAC equipment, fire-suppression system components (if any), and partition system (if any).

DELIVERY, STORAGE, AND HANDLING:

Deliver acoustical ceiling units to project site in original, unopened packages and store them in a fully enclosed space where they will be protected against damage from moisture, direct sunlight, surface contamination or other causes.

Before installing acoustical ceiling units, permit them to reach room temperature and a stabilized moisture content.

Handle acoustical ceiling units carefully to avoid chipping edges or damaging units in any way.

PROJECT CONDITIONS:

Space Enclosure: Do not install interior acoustical ceilings until space is enclosed and weatherproof, wet-work in space is completed and nominally dry, work above ceilings is complete, and ambient conditions of temperature and humidity will be continuously maintained at values near those indicated for final occupancy.

PART 2 - PRODUCTS

MANUFACTURERS

1. Acoustic Tile:

Acoustone.
Armstrong.
Celotex.

Products:

Lobby/Corridors: Subject to requirements: provide products identical to Armstrong #557, 3/4" x 24" x 24" wet-formed mineral fiber, and factory applied vinyl latex paint coating: colour selected by Owner. Provide tegular lay-in tile for "Suprafine" 9/16" exposed tee grid system.

Spa/Pantry: Subject to requirements: provide products identical to Armstrong, "Ceramaguard", 5/8" x 24" x 24" ceramic and mineral fiber, and factory applied vinyl plastic paint coating: white. Provide square-cut lay-in tile for water-resistant standard grid system.

2. Metal Suspension System:

Armstrong.
Chicago Metallic.
Donn.

Product: 9/16" or 15/16" as scheduled, exposed, aluminum "T" type grid system, including all main runners, cross tees, wall moldings and accessories. Provide water-resistant grid system with stainless steel or galvanized support components for Spa Area. Colour selected by Owner.

3. Acoustical Sealant:

Products: Refer to requirements under Section 07900.

MATERIALS:

Standard for Acoustical Ceiling Units: Provide manufacturer's standard units of configuration indicated which are prepared for mounting method designated and which comply with FS SS-S-118 requirements, including those indicated by reference to type, form, pattern, grade (NRC or NIC' as applicable), light reflectance coefficient (LR), edge detail, and joint detail (if any).

Mounting Method for Measuring NRC: No. 7 (mechanically mounted on special metal support), FS SS-S-118; or Type E-400 mounting as per ASTM E 795.

Sound Attenuation Performance: Provide acoustical ceiling units with ratings for ceiling sound transmission class (STC) of range indicated as determined according to AMA 1-II "Ceiling Sound Transmission Test by Two-Room Method" with ceilings continuous at partitions and supported by a metal suspension system of type appropriate for ceiling unit of configuration indicated (concealed for tile, exposed for panels).

Standard for Metal Suspension Systems: Provide metal suspension systems of type, structural classification and finish indicated which comply with applicable ASTM C 635 requirements.

Attachment Devices: Size for 5 times design load indicated in ASTM C 635, Table 1, Direct Hung.

Concrete Inserts: Inserts formed from hot-dipped galvanized sheet steel and designed for attachment to concrete forms and for embedment in concrete, with holes or loops for attachment at hanger wires.

Hanger Wire: Galvanized carbon steel wire, ASTM A 641, soft temper, prestretched, Class 1 coating, sized so that stress at 3- times hanger design loan (ASTM C 635, Table 1, Direct Hung), will be less than yield stress of wire, but provide not less than 12 gage.

Edge Moldings and Trim: Metal or extruded plastic of types and profiles indicated or, if not indicated, provide manufacturer's standard molding for edges and penetrations of ceiling which fits with type of edge detail and suspension system indicated.

For lay-in panels with reveal edge details, provide stepped edge molding which forms reveal of same depth and width as that formed between edge of panel and flange at exposed suspension member.

For circular penetrations of ceiling, provide edge moldings fabricated to diameter required to fit penetration exactly.

For narrow faced suspension systems, provide suspension system manufacturer's standard edge moldings which match width and configuration of exposed runners.

PART 3 - EXECUTION

PREPARATION:

Coordination: Furnish layouts for inserts, clips, or other supports required to be installed by other trades for support of acoustical ceilings. Furnish concrete inserts and similar devices to other trades for installation well in advance of time needed for coordination of other work.

Measure each ceiling area and establish layout of acoustical units to balance border widths at opposite edges of each ceiling. Avoid use of less-than-half width units at borders, and comply with reflected ceiling plans wherever possible.

Review existing conditions and provide products for the continuity of the existing system.

INSTALLATION:

General: Install materials in accordance with manufacturer's printed instructions, and to comply with governing regulations, fire resistance rating requirements as indicated, and CISCA standards applicable to work.

Arrange acoustical units and orient directionally-patterned units (if any) in manner shown by reflected ceiling plans.

Install tile with pattern running in one direction.

Install suspension systems to comply with ASTM C 636, with hangers supported only from building structural members. Locate hangers not less than 6" from each end and spaced 4'-0" along each carrying channel or direct-hung runner, unless otherwise indicated, leveling to tolerance of 1/8" in 12'-0".

Secure wire hangers by looping and wire-tying, either directly to structures or to inserts, eye-screws, or other devices which are secure and appropriate for substrate, and which will not deteriorate or fail with age or elevated temperatures.

Install hangers plumb and free from contact with insulation or other objects within ceiling plenum which are not part of supporting structural or ceiling suspension system. Splay hangers only where required to miss obstructions and offset resulting horizontal force by bracing, countersplaying or other equally effective means.

Install edge moldings of type indicated at perimeter of acoustical ceiling area and at locations where necessary to conceal edges of acoustical units.

Sealant Bed: Apply continuous ribbon of acoustical sealant, concealed on back of vertical leg before installing moldings.

Screw-attach moldings to substrate at intervals not over 16" o.c. and not more than 3" from ends, leveling with ceiling suspension system to tolerance of 1/8" in 12'-0". Miter corners accurately and connect securely.

Install acoustical panels in coordination with suspension system, with edges concealed by support of suspension members. Scribe and cut panels to fit accurately at borders and at penetrations.

Install hold-down clips in areas indicated, and in areas where required by governing regulations or for fire-resistance ratings; space as recommended by panel manufacturer, unless otherwise indicated or required.

CLEANING:

Clean exposed surfaces of acoustical ceilings, including trim, edge moldings, and suspension members; comply with manufacturer's
instructions for cleaning and touch-up of minor finish damage. Remove and replace work which cannot be successfully cleaned and repaired to permanently eliminate evidence of damage.

END OF SECTION 09510

SECTION 09650 - RESILIENT FLOORING

PART 1 - GENERAL

RELATED DOCUMENTS:

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

DESCRIPTION OF WORK:

Extent of resilient flooring and accessories is shown on drawings and in schedules included at end of this section.

QUALITY ASSURANCE:

Manufacturer: Provide each type of resilient flooring and accessories as produced by a single manufacturer, including recommended primers, adhesives, sealants, and leveling compounds.

Installer's Qualifications: Engage Installer who is certified in writing by resilient flooring manufacturer as qualified for installation of sheet vinyl employing heat welded seams.

SUBMITTALS:

Product Data: Submit manufacturer's technical data for each type of resilient flooring and accessory.

Samples for Initial Selection Purposes: Submit manufacturer's standard color charts in form of actual sections of resilient flooring, including accessories, showing full range of colors and patterns available, for each type of resilient flooring required.

Samples for Verification Purposes: Submit the following samples of each type, color, and pattern of resilient flooring required, showing full-range of color and pattern variations.

6" x 9" samples of sheet flooring.
2-1/2" long samples of resilient flooring accessories.
Welding beads for sheet flooring.
Other materials as required.

Certification for Fire Test Performance: Submit certification from independent testing laboratory acceptable to authorities having jurisdiction that resilient flooring complies with fire test performance requirements.

Maintenance Instructions: Submit 2 copies of manufacturer's recommended maintenance practices for each type of resilient flooring and accessory required.

PROJECT CONDITIONS:

Maintain minimum temperature of 65°F (18°C) in spaces to receive resilient flooring for at least 48 hours prior to installation, during installation, and for not less than 48 hours after installation. Store resilient flooring materials in spaces where they will be installed for at least 48 hours before beginning installation. Subsequently, maintain minimum temperature of 55°F (13°C) in areas where work is completed.

Install resilient flooring and accessories after other finishing operations, including painting, have been completed. Do not install resilient flooring over concrete slabs until the latter have been cured and are sufficiently dry to achieve bond with adhesive as determined by manufacturer's recommended bond and moisture test.

PART 2 - PRODUCTS

ACCEPTABLE MANUFACTURERS:

Available Manufacturers: Subject to compliance with requirements, provide products of one of the following:

Armstrong World Industries, Inc.
Kentile Floors, Inc.
Flintkote
Tarkett Inc.

Manufacturers of Vinyl Wall Base:

Armstrong World Industries, Inc.
Azrock Floor Products Div., Azrock Industries, Inc.
Flexco Div., Textile Rubber Co.
Kentile Floors, Inc.
Mercer Plastics Co., Inc.
Vinyl Plastics, Inc.

RESILIENT FLOORING COLORS AND PATTERNS:

Provide color and patterns as indicated, or if not otherwise indicated, as selected by Owner from manufacturer's standards.

TILE FLOORING:

Resilient floor tile shall be composition vinyl tile, 12" X 12" .
Composition: Asbestos free.
Gage: 0.080"

ACCESSORIES:

Vinyl Wall Base: Provide vinyl base complying with FS SS-W-40, Type II, with matching end stops and preformed or molded corner units, and as follows:

Height: 4".
Thickness: 0.080" gage.
Style: Standard top-set cove.
Finish: Matte.

PART 3 - EXECUTION

PREPARATION:

Require Installer to inspect subfloor surfaces to determine that they are satisfactory. A satisfactory subfloor surface is defined as one that is smooth and free from cracks, holes, ridges, coatings preventing adhesive bond, and other defects impairing performance or appearance.

Perform bond and moisture tests on concrete subfloors to determine if surfaces are sufficiently cured and dry as well as to ascertain presence of curing compounds.

Do not allow resilient flooring work to proceed until subfloor surfaces are satisfactory.

INSPECTION:

Prepare subfloor surfaces as follows:

Use leveling and patching compounds as recommended by resilient flooring manufacturer for filling small cracks, holes and depressions in subfloors.

Remove coatings from subfloor surfaces that would prevent adhesive bond, including curing compounds incompatible with resilient flooring adhesives, paint, oils, waxes and sealers.

Broom clean or vacuum surfaces to be covered, and inspect subfloor.

Apply concrete slab primer, if recommended by flooring manufacturer, prior to application of adhesive. Apply in compliance with manufacturer's directions.

INSTALLATION:

Install resilient flooring using method indicated in strict compliance with manufacturer's printed instructions. Extend flooring into toe spaces, door reveals, and into closets and similar openings.

Scribe, cut, and fit resilient flooring to permanent fixtures, built-in furniture and cabinets, pipes, outlets and permanent columns, walls and partitions.

Maintain reference markers, holes, or openings that are in place or plainly marked for future cutting by repeating on finish flooring as marked on subfloor. Use chalk or other non-permanent marking device.

Tightly cement resilient flooring to subbase without open cracks, voids, raising and puckering at joints, telegraphing of adhesive spreader marks, or other surface imperfections. Hand roll resilient flooring at perimeter of each covered area to assure adhesion.

INSTALLATION OF ACCESSORIES:

Apply wall base to walls, columns, pilasters, casework and other permanent fixtures in rooms or areas where base is required. Install base in lengths as long as practicable, with preformed corner units, or fabricated from base materials with mitered or coped inside corners. Tightly bond base to substrate throughout length of each piece, with continuous contact at horizontal and vertical surfaces.

On Masonry surfaces, or other irregular substrates, fill voids along top edge of resilient wall base with manufacturer's recommended adhesive filler material.

Place resilient edge strips tightly butted to flooring and secure with adhesive. Install edging strips at edges of flooring which would otherwise be exposed.

CLEANING AND PROTECTION:

Perform following operations immediately upon completion of resilient flooring:

Sweep or vacuum floor thoroughly.

Do not wash floor until time period recommended by resilient flooring manufacturer has elapsed to allow resilient flooring to become well-sealed in adhesive.

Damp-mop floor being careful to remove black marks and excessive soil.

Remove any excess adhesive or other surface blemishes, using appropriate cleaner recommended by resilient flooring manufacturers.

Protect flooring against damage during construction period to comply with resilient flooring manufacturer's directions.

Protect resilient flooring against damage from rolling loads for initial period following installation by covering with plywood or hardboard. Use dollies to move stationary equipment or furnishings across floors.

Cover resilient flooring with undyed, untreated building paper until inspection for substantial completion.

END OF SECTION 09650

SECTION 09900 - PAINTING

PART 1 - GENERAL

RELATED DOCUMENTS:

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

DESCRIPTION OF WORK:

Extent of painting work is indicated on drawings and schedules, as herein specified, and as indicated in color schedules included at the end of this section.

Work includes painting and finishing of interior and exterior exposed items and surfaces throughout project, except as otherwise indicated.

Surface preparation, priming and coats of paint specified are in addition to shop-priming and surface treatment specified under other sections of work.

Work includes field painting of exposed bare and covered pipes and ducts (including color coding), and of hangers, exposed steel and iron work, and primed metal surfaces of equipment installed under mechanical and electrical work, except as otherwise indicated.

"Paint" as used herein means all coating systems materials, including primers, emulsions, enamels, stains, sealers and fillers, and other applied materials whether used as prime, intermediate or finish coats.

Surfaces to be Painted: Except where natural finish of material is specifically noted as a surface not to be painted, paint exposed surfaces whether or not colors are designated in "schedules". Where items or surfaces are not specifically mentioned, paint the same as similar adjacent materials or areas. If color or finish is not designated, Architect will select these from standard colors or finishes available.

Following categories of work are not included as part of field- applied finish work.

Pre-Finished Items: Unless otherwise indicated, do not include painting when factory-finishing or installer-finishing is specified for such items as (but not limited to) metal toilet enclosures, prefinished partition systems, acoustic materials, architectural woodwork and casework, elevator entrance doors and frames, elevator equipment, and finished mechanical and electrical equipment, including light fixtures, switchgear and distribution cabinets.

Concealed Surfaces: Unless otherwise indicated, painting is not required on surfaces such as walls or ceilings in concealed areas and generally inaccessible areas, foundation spaces, furred areas, utility tunnels, pipe spaces, duct shafts and elevator shafts.

Finished Metal Surfaces: Unless otherwise indicated, metal surfaces of anodized aluminum, stainless steel, chromium plate, copper, bronze and similar finished materials will not require finish painting.

Operating Parts: Unless otherwise indicated, moving parts of operating units, mechanical and electrical parts, such as valve and damper operators, linkages, sinkages, sensing devices, motor and fan shafts will not require finish painting.

Following categories of work are included under other sections of these specifications.

Shop Priming: Unless otherwise specified, shop priming of ferrous metal items is included under various sections for structural steel, metal fabrications, hollow metal work and similar items.

Unless otherwise specified, shop priming of fabricated components such as architectural woodwork, wood casework and shop- fabricated or factory-built mechanical and electrical equipment or accessories is included under other sections of these specifications.

Mechanical and Electrical Work: Painting of exposed elements of mechanical and electrical work installed as part of the work of separate contracts is included as part of the work of this section.

Do not paint over any code-required labels, such as Underwriters' Laboratories and Factory Mutual, or any equipment identification, performance rating, name, or nomenclature plates.

QUALITY ASSURANCE:

Single Source Responsibility: Provide primers and other undercoat paint produced by same manufacturer as finish coats. Use only thinners approved by paint manufacturer, and use only within recommended limits.

Coordination of Work: Review other sections of these specifications in which prime paints are to be provided to ensure compatibility of total coatings system for various substrates. Upon request from other trades, furnish information or characteristics of finish materials provided for use, to ensure compatible prime coats are used.

SUBMITTALS:

Product Data: Submit manufacturer's technical information including Paint label analysis and application instructions for each material proposed for use.

Samples: Prior to beginning work, Architect will furnish color chips for surfaces to be painted. Use representative colors when preparing samples for review. Submit samples for Architect's review of color and texture only. Provide a listing of material and application for each coat of each finish sample.

On 12" x 12" hardboard, provide two samples of each color and material, with texture to simulate actual conditions. Resubmit samples as requested by Architect until acceptable sheen, color, and texture is achieved.

On actual wood surfaces, provide two 4" x 8" samples of natural and stained wood finish. Label and identify each as to location and application.

On concrete masonry, provide two 8" square samples of masonry for each type of finish and color, defining filler, prime and finish coat.

On actual wall surfaces and other exterior and interior building components, duplicate painted finishes of prepared samples. Provide full-coat finish samples on at least 100 sq. ft. of surface, as directed, until required sheen, color and texture is obtained; simulate finished lighting conditions for review of in-place work.

Final acceptance of colors and textures will be from samples applied on the job.

DELIVERY AND STORAGE:

Deliver materials to job site in original, new and unopened packages and containers bearing manufacturer's name and label, and following information:

Name or title of material.
Fed. Spec. number, if applicable.
Manufacturer's stock number and date of manufacture.
Manufacturer's name.
Contents by volume, for major pigment and vehicle constituents.
Thinning instructions.
Application instructions.
Color name and number.

Store materials not in actual use in tightly covered containers. Maintain containers used in storage of paint in a clean condition, free of foreign materials and residue.

Protect from freezing where necessary. Keep storage area neat and orderly. Remove oily rags and waste daily. Take all precautions to ensure that workmen and work areas are adequately protected from fire hazards and health hazards resulting from handling, mixing and application of paints.

JOB CONDITIONS:

Apply water-base paints only when temperature of surfaces to be painted and surrounding air temperatures are between 50°F (10°C) and 90°F (32°C), unless otherwise permitted by paint manufacturer's printed instructions.

Apply solvent-thinned paints only when temperature of surfaces to be painted and surrounding air temperatures are between 45°F (7°C) and 95°F (35°C), unless otherwise permitted by paint manufacturer's printed instructions.

Do not apply paint in snow, rain, fog or mist, or when relative humidity exceeds 85%, or to damp or wet surfaces, unless otherwise permitted by paint manufacturer's printed instructions.

Painting may be continued during inclement weather if areas and surfaces to be painted are enclosed and heated within temperature limits specified by paint manufacturer during application and drying periods.

PART 2 - PRODUCTS

ACCEPTABLE MANUFACTURERS:

Available Manufacturers: Subject to compliance with requirements, manufacturers offering products which may be incorporated in the work include, but are not limited to, the following:

Devoe and Reynolds Co. (Devoe).
Glidden Coatings and Resins, Division of SCM Corporation (Glidden).
Benjamin Moore and Co. (Moore).
PPG Industries, Pittsburgh Paints (Pittsburgh).
Pratt and Lambert (P & L).

MATERIALS:

Material Quality: Provide best quality grade of various types of coatings as regularly manufactured by acceptable paint materials manufacturers. Materials not displaying manufacturer's identification as a standard, best-grade product will not be acceptable.

Proprietary names used to designate color or materials are not intended to imply that products of named

manufacturers are required to exclusion of equivalent products of other manufacturers.

Federal Specifications establish minimum acceptable quality for paint materials. Provide written certification from paint manufacturer that materials provided meet or exceed these minimums.

Color Pigments: Pure, non-fading, applicable types to suit substrates and service indicated.

Lead content in pigment, if any, is limited to contain not more than 0.06% lead, as lead metal based on the total non- volatile (dry-film) of paint by weight.

This limitation is extended to interior surfaces and those exterior surfaces, such as stairs, decks, porches, railings, windows, and doors which are readily accessible to children under seven years of age.

PART 3 - EXECUTION

INSPECTION:

Applicator must examine areas and conditions under which painting work is to be applied and notify Contractor in writing of conditions detrimental to proper and timely completion of work. Do not proceed with work until unsatisfactory conditions have been correct in a manner acceptable to Applicator.

Starting of painting work will be construed as Applicator's acceptance of surfaces and conditions within any particular area.

Do not paint over dirt, rust, scale, grease, moisture, scuffed surfaces, or conditions otherwise detrimental to formation of a durable paint film.

SURFACE PREPARATION:

General: Perform preparation and cleaning procedures in accordance with paint manufacturer's instructions and as herein specified, for each particular substrate condition.

Provide barrier coats over incompatible primers or remove and reprime as required. Notify Architect in writing of any anticipated problems in using the specified coating systems with substrates primed by others.

Remove hardware, hardware accessories, machined surfaces, plates, lighting fixtures, and similar items in place and not to be finish-painted, or provide surface-applied protection prior to surface preparation and painting operations. Remove, if necessary, for complete painting of items and adjacent surfaces. Following completion of painting of each space or area, reinstall removed items.

Clean surfaces to be painted before applying paint or surface treatments. Remove oil and grease prior to mechanical cleaning. Program cleaning and painting so that contaminants from cleaning process will not fall onto wet, newly-painted surfaces.

Cementitious Materials: Prepare cementitious surfaces of concrete, concrete block, cement plaster and cement-asbestos board to be painted by removing efflorescence, chalk, dust, dirt, grease, oils, and by roughening as required to remove glaze.

Determine alkalinity and moisture content of surfaces to be painted by performing appropriate tests. If surfaces are found to be sufficiently alkaline to cause blistering and burning of finish paint, correct this condition before application of paint. Do not paint over surfaces where moisture content exceeds that permitted in manufacturer's printed directions.

Clean concrete floor surfaces scheduled to be painted with a commercial solution or muriatic acid, or other etching cleaner. Flush floor with clean water to neutralize acid, and allow to dry before painting.

Wood: Clean wood surfaces to be painted of dirt, oil, or other foreign substances with scrapers, mineral spirits, and sandpaper, as required. Sandpaper smooth those finished surfaces exposed to view, and dust off. Scrape and clean small, dry, seasoned knots any apply a thin coat of white shellac or other recommended knot sealer, before application of priming coat. After priming, fill holes and imperfections in finish surfaces with putty or plastic wood-filler. Sandpaper smooth when dried.

Prime, stain, or seal wood required to be job-painted immediately upon delivery to job. Prime edges, ends, faces, undersides, and backsides of such wood, including cabinets, counters, cases, paneling.

When transparent finish is required, use spar varnish for backpriming.

Backprime paneling on interior partitions only where masonry, plaster, or other wet wall construction occurs on backside.

Seal tops, bottoms, and cut-outs of unprimed wood doors with a heavy coat of varnish or equivalent sealer immediately upon delivery to job.

Ferrous Metals: Clean ferrous surfaces, which are not galvanized or shop-coated, of oil, grease, dirt, loose mill scale and other foreign substances by solvent or mechanical cleaning.

Galvanized Surfaces: Clean free of oil and surface contaminants with non-petroleum based solvent.

MATERIALS PREPARATION:

Mix and prepare painting materials in accordance with manufacturer's directions.

Maintain containers used in mixing and application of paint in a clean condition, free of foreign materials and residue.

Stir materials before application to produce a mixture of uniform density, and stir as required during application. Do not stir surface film into material. Remove film and, if necessary, strain material before using.

APPLICATION:

General: Apply paint in accordance with manufacturer's directions. Use applicators and techniques best suited for substrate and type of material being applied.

Paint colors, surface treatments, and finishes, are indicated in "schedules" of the contract documents.

Provide finish coats which are compatible with prime paints used.

Apply additional coats when undercoats, stains or other conditions show through final coat of paint, until paint film is of uniform finish, color and appearance. Give special attention to insure that surfaces, including edges, corners, crevices, welds, and exposed fasteners receive a dry film thickness equivalent to that of flat surfaces.

Paint surfaces behind movable equipment and furniture same as similar exposed surfaces. Paint surfaces behind permanently- fixed equipment or furniture with prime coat only before final installation of equipment.

Paint interior surfaces of ducts, where visible through registers or grilles, with a flat, non-specular black paint.

Paint back sides of access panels, and removable or hinged covers to match exposed surfaces.

Finish exterior doors on tops, bottoms and side edges same as exterior faces, unless otherwise indicated.

Sand lightly between each succeeding enamel or varnish coat.

Omit first coat (primer) on metal surfaces which have been shop-primed and touch-up painted, unless otherwise indicated.

Scheduling Painting: Apply first-coat material to surfaces that have been cleaned, pretreated or otherwise prepared for painting as soon as practicable after preparation and before subsequent surface deterioration.

Allow sufficient time between successive coatings to permit proper drying. Do not recoat until paint has dried to where it feels firm, does not deform or feel sticky under moderate thumb pressure, and application of another coat of paint does not cause lifting or loss of adhesion of the undercoat.

Minimum Coating Thickness: Apply materials at not less than manufacturer's recommended spreading rate, to establish a total dry film thickness as indicated or, if not indicated, as recommended by coating manufacturer.

Mechanical and Electrical Work: Painting of mechanical and electrical work is limited to those items exposed to mechanical equipment rooms and in occupied spaces.

Prime Coats: Apply prime coat of material which is required to be painted or finished, and which has not been prime coated by others.

Recoat primed and sealed surfaces where there is evidence of suction spots or unsealed areas in first coat, to assure a finish coat with no burn-through or other defects due to insufficient sealing.

Stipple Enamel Finish: Roll and redistribute paint to an even and fine texture. Leave no evidence of rolling such as laps, irregularity in texture, skid marks, or other surface imperfections.

Pigmented (Opaque) Finishes: Completely cover to provide an opaque, smooth surface of uniform finish, color, appearance and coverage. Cloudiness, spotting, holidays, laps, brush marks, runs, sags, ropiness or other surface imperfections will not be acceptable.

Transparent (Clear) Finish: Use multiple coats to produce glass- smooth surface film of even luster. Provide a finish free of laps, cloudiness, color irregularity, runs, brush marks, orange peel, nail holes, or other surface imperfections.

Provide satin finish for final coats, unless otherwise indicated.

Completed Work: Match approved samples for color, texture and coverage. Remove, refinish or repaint work not in compliance with specified requirements.

FIELD QUALITY CONTROL:

The right is reserved by Owner to invoke the following material testing procedure at any time, and any number of times during period of field painting:

Engage services of an independent testing laboratory to sample paint being used. Samples of materials delivered to project site will be taken, identified and sealed, and certified in presence of Contractor.

Testing laboratory will perform appropriate tests for any or all of following characteristics: Abrasion resistance, apparent reflectivity, flexibility, washability, absorption, accelerated weathering, dry opacity, accelerated yellowness, recoating, skinning, color retention, alkali resistance and quantitative materials analysis.

If test results show that material being used does not comply with specified requirements, Contractor may be directed to stop painting work, and remove non-complying paint; pay for testing; repaint surfaces coated with rejected paint;

remove rejected paint from previously painted surfaces if, upon repainting with specified paint, the two coatings are non-compatible.

CLEAN-UP AND PROTECTION:

Clean-Up: During progress of work, remove from site discarded paint materials, rubbish, cans and rags at end of each work day.

Upon completion of painting work, clean window glass and other paint spattered surfaces. Remove spattered paint by proper methods of washing and scraping, using car not to scratch or otherwise damage finished surfaces.

Protection: Protect work of other trades, whether to be painted or not, against damage by painting and finishing work. Correct any damage by cleaning, repairing or replacing, and repainting, as acceptable to Architect.

Provide "Wet Paint" signs as required to protect newly-painted finishes. Remove temporary protective wrappings provided by others for protection of their work, after completion of painting operations.

At completion of work of other trades, touch-up and restore all damaged or defaced painted surfaces.

EXTERIOR PAINT SCHEDULE:

General: Provide the following Paint systems for the various substrates, as indicated. Not all of the systems listed may be used; ignore paint systems listed that do not apply to the work.

Concrete, Stucco and Masonry: (Other than concrete masonry units).

Lusterless (Flat) Acrylic Finish: 2 coats with total dry film thickness not less than 2.5 mils.

First and Second Coats: Acrylic Emulsion (FS TT-P-19).

Devoe: 15XX Wonder-Shield Exterior Acrylic Latex Flat House Paint.
Glidden: Y3525 Spred Glide-On.
Moore: Moorglo House and Trim Paint.
Pittsburgh: 6-610 Speedhide Acrylic Latex House Paint.
P & L: Pro-Hide Plus Latex House Paint.

Heavy-Duty Textured Coating: One coat with total dry film thickness not less than 15.0 mils.

First Coat: Heavy-duty, Textured Coating (FS TT-C-555, Type II).

Devoe: 481XX Re-New Coat Interior/Exterior Modified Epoxy Masonry Texture Coating.
Glidden: Y-5392 Glid-Tex High Profile Spray Texture.
P & L: Pro-Hide Texture Masonry Coating.

Concrete Masonry Units:

Lusterless (Flat) Acrylic Finish: 2 coats over filler coat with total dry film thickness not less than 2.5 mils, excluding filler coat.

Filler Coat: Solvent Thinned Block Filler for Porous Surfaces (FS TT-F-1098).

Devoe: 52901 Bloxfil Interior/Exterior Acrylic Latex Block Filler.
Glidden: Y-5317 Ultra-Hide Acrylic Latex Block Filler.
Moore: Moore's Waterproofing Masonry Paint.

First and Second Finish Coats: Acrylic Emulsion (FS TT-P- 19).

Devoe: 15XX Wonder Shield Exterior Acrylic Latex Flat House Paint.
Glidden: Y3525 Spred Glid-On.
Moore: Moorgard Latex House Paint.

Heavy-Duty Textured Coating: 2 coats with total dry film thickness not less than 25.0 mils.

First and Second Coats: Heavy-duty, Textured Coating (FS TT-C-555, Type II).

Devoe: 481XX Re-New Coat Interior/Exterior Modified Epoxy Masonry Texture Coating.
Glidden: Y5392 Glid-Tex High Profile Spray Texture.
P & L: Pro-Hide Texture Masonry Coating.

General Painted Wood:

Alkyd Semi-Gloss Finish: 2 finish coats over primer with total dry film thickness not less than 3.5 mils.

Prime Coat: Exterior Primer Coating (FS TT-P-25).

Devoe: 1102 All-Weather Exterior Alkyd House Paint Primer.
Glidden: Y-1951 Spred Gel-Flo Base Coat.
Moore: Moore's Moorwhite Primer.
Pittsburgh: 6-Line Speedhide Exterior Wood Primer.
P & L: Permalize Exterior Primer.

First and Second Finish Coats: Exterior Alkyd Semi-Gloss Enamel (TT-E-489).

Devoe: 70XX Mirrolac Interior/Exterior Alkyd Semi Gloss Enamel.
Glidden: Y-4500-Line Glid-Guard Industrial Enamel.
Moore: Impervo Semi-Gloss Enamel Exterior/ Interior.
Pittsburgh: 6-Line Speedhide Quick-Dry Alkyd Enamel.
P & L: Effecto Enamel.

Painted Plywood:

Lusterless (Flat) Acrylic Finish: 2 Finish coats over primer and sealer.

Sealer: Varnish-type Surface Sealer (FS TT-S-176).

Devoe: 4900 Wonder Wood Sealer Interior Quick-Dry Clear Sealer.
Glidden: Y-3651 Spread House Paint Prime Coat.
Moore: (No sealer coat required).
Pittsburgh: 77-1 Rez Sealer-Primer.
P & L: Varmor Penetrating Sealer.

Prime Coat: Exterior Primer Coating (FS TT-P-25).

Devoe: 1102 All-Weather Alkyd House Paint Primer.
Glidden: Y-3651 Spred House Paint Prime Coat.
Moore: Moore's Moorwhite Primer.
Pittsburgh: 6-9 Speedhide Exterior Wood Primer.
P & L: Permalize Exterior Primer.

First and Second Finish Coats: Finish Coats: Acrylic Emulsion (FS TT-P-19).

Devoe: 15XX Wonder-Shield Exterior Acrylic Latex Flat House Paint.
Glidden: Y-3600-Line Spred House Paint.
Moore: Moorgard Latex House Paint.
Pittsburgh: 6-610 Line Speedhide Acrylic Latex House Paint.
P & L: Pro-Hide Plus Latex House Paint.

Stained Wood:

Full Gloss Stained Varnish Finish: 3 Finish Coats over stain plus a filler on open grain wood.

Stain Coat: Semi-transparent Exterior Oil Stain (FS TT-S- 708).

Devoe: 94XX Wonder Woodtones Exterior Alkyd Semi-Transparent Stains.
Glidden: Y-721 Line Spred Semi-Transparent Oil Stain.
Moore: Moorwood Semi-Transparent Stain and Wood Preservative.
Pittsburgh: 77-660 Rez Semi-Transparent Stain, Alkyd Oil Type.
P & L: Penetrating Rustin Stain.

Filler Coat on Open Grain Wood: Paste Wood Fillers (FS TT- F-336). Wipe before first varnish coat.

Devoe: 4800 Wonder Woodstain Interior Paste Wood Filler.
Glidden: Y-700 Line Paste Wood Filler.

First, Second and Third Finish Coats: Exterior Spar Varnish (FS TT-V-121).

Devoe: 5500 87 Spar Interior/Exterior Alkyd Gloss Spar Varnish.
Glidden: Y-40 Spred Spar Varnish.
Moore: Impervo 440 Spar Varnish.
Pittsburgh: 77-10 Rez Spar Varnish.

P & L: Spar Varnish.

Flat Stain, No Finish: 1 coat.

First Coat: Exterior Semi-Transparent Oil Stain (FS TT-S- 708).

Devoe: 94XX Wonder Woodtones Exterior Alkyd Semi-Transparent Stains.
Glidden: Y-721 Line Spred Semi-Transparent Oil Stain.
Moore: Moorwood Semi-Transparent Stain and Wood Preservative.
Pittsburgh: 77-660 Rez Semi-Transparent Stain, Alkyd Oil Type.
P & L: Penetrating Rustic Stain.

Natural Finish Wood:

Full Gloss Varnish Finish: 3 Coats: Fill open grain wood and wipe before first varnish coat.

Filler Coat on Open Grain Wood: Paste Wood Filler (FS TT-F-336). Wipe before first varnish coat.

Devoe: 4800 Wonder Woodstain Interior Paste Wood Filler.
Glidden: Y-700 Line Paste Wood Filler.

First, Second and Third Coats: Exterior Spar Varnish (FS TT-V-121).

Devoe: 5500 87 Spar Interior/Exterior Alkyd Gloss Spar Varnish.
Glidden: Y-40 Spred Spar Varnish.
Moore: Impervo 440 Spar Varnish.
Pittsburgh: 77-10 Rez Spar Varnish.
P & L: Spar Varnish.

Ferrous Metal:

Semi-Gloss Alkyd Enamel: 2 Finish coats over primer.

Prime Coat: Red Lead Pigmented Primer (FS TT-P-86). Primer is not required on items delivered shop primed.

Devoe: 41821 Bar-Ox Red Lead Metal Primer.
Glidden: Y-5532 Glid-Guard Red Lead Metal Primer.
Pittsburgh: UC 10424 Red Lead Primer.
P & L: P & L Red Lead Primer.

First and Second Finish Coats: Semi-Gloss Alkyd Enamel (FS TT-E-529, Class A).

Devoe: 1XX All-Weather Exterior Alkyd Gloss House and Trim Paint.
Glidden: Y-4600 Line Spred Lustre.

Pittsburgh: 6-90 Speedhide Lo-Sheen Enamel.
P & L: Vitralite Eggshell Enamel.

Zinc-Coated Metal:

Semi Gloss Alkyd Enamel: 2 Finish coats over primer.

Prime Coat: Zinc Dust-Zinc Oxide Primer (FS TT-P-641).

Devoe: 14100 Zinc Dust Primer and Finish.
Glidden: Y-5229 Glid-Guard All-Purpose Metal Primer.
Pittsburgh: 6-215 Speedhide Galvanized Steel Primer.

First and Second Finish Coats: Semi-Gloss Alkyd Enamel (FS TT-E-529, Class A).

Devoe: 1XX All-Weather Exterior Alkyd Gloss House and Trim Paint.
Glidden: Y-4600 Line Spred Lustre.
Pittsburgh: 6-90 Speedhide Lo-Sheen Enamel.
P & L: Vitralite Eggshell Enamel.

Aluminum:

Semi-Gloss Alkyd Enamel: 2 Finish coats over primer.

Prime Coat: Zinc Chromate Primer (FS TT-P-645).

Devoe: 13201 Mirrolac Galvanized Metal Primer.
Glidden: Y-5229 - Glid-Guard All-Purpose Metal Primer.
Pittsburgh: 6-204 PPG Zinc Chromate Primer.
P & L: Noxide Zinc Chromate Primer.

First and Second Finish Coats: Semi-Gloss Alkyd Enamel (FS TT-E-529, Class A).

Devoe: 1XX All-Weather Exterior Alkyd Gloss House and Trim Paint.
Glidden: Y-4600 Line Spred Lustre.
Pittsburgh: 6-90 Speedhide Lo-Sheen Enamel.
P & L: Vitralite Eggshell Enamel.

INTERIOR PAINT SCHEDULE:

General: Provide the following paint systems for the various substrates, as indicated. Not all paint systems listed may be used; ignore systems listed that are not used in the Work.

Concrete and Masonry: (Other than concrete masonry units).

Lusterless (Flat) Latex Finish: 2 coats.

First and Second Coats: Interior Flat Latex Base Paint (FS TT-P-29).

Devoe: 36XX Wonder-Tones Interior Latex Flat Wall Paint.
Glidden: Y-3400-Line Spred Satin Latex Wall Paint.
Moore: Moore's Regal Wall Satin.
Pittsburgh: 6-70 Speedhide Latex Wall Paint.
P & L: Pro-Hide Plus Latex Flat.

Concrete:

Interior Polyester Epoxy in Gloss or Semi-Gloss Finish: 3 Coats with total dry film thickness not less than 4.0 mils.

First Coat: Interior Latex Emulsion (FS TT-P-29).

Devoe: 36XX Wonder-Tones Interior Latex Flat Wall Paint.
Moore: Moore's Regal Wall Satin.
Pittsburgh: 6-70 Speedhide Latex Flat Wall Paint.

Second and Third Coats: Polyester Epoxy (FS TT-C-545).

Devoe: 124XX Tru-Glaze 4 Epoxy Gloss.
Moore: Tile-Like Catalyzed Architectural Coatings.
Pittsburgh: 16-610/16-630 Pitt-Glaze High Solids

Texured Paint Finish: 2 coat system.

First Coat: Interior latex paint with sand additive.

Moore: 38701

Second Coat: Interior latex paint.

Moore: 38701
Polyester Epoxy Finish Coatings.

Concrete Masonry Units:

Lusterless (Flat) Emulsion Finish: 2 Finish coats over filled surface.

Filler Coat: Solvent-Thinned Block Filler (FS TT-F-1098). Apply filler coat at a rate to ensure complete coverage with pores filled.

Devoe: 52901 Bloxfil Acrylic Flat Latex Block Filler.
Glidden: Y-5317 Line Ultra-Hide Acrylic Block Filler.
Moore: Moore's Waterproofing Masonry Paint.

First and Second Finish Coats: Interior Latex Emulsion (FS TT-P-29).

Devoe: 36XX Wonder-Tones Latex Flat Wall Paint.
Glidden: Y-2400-Line - Spred Satin Latex Wall Paint.
Moore: Moore's Regal Wall Satin.

Gypsum Drywall Systems:

Lusterless (Flat) Emulsion Finish: 2 Coats.

First Coat: Interior Latex Base Primer Coat (FS TT-P- 650).

Devoe: 50801 Wonder-Tones Latex Flat Wall Paint.
Glidden: Y-3416 Spred Primer Sealer.
Moore: Moore's Latex Quick-Dry Prime Seal.
Pittsburg: 6-2 PPG Quick-Drying Interior Latex Primer sealer.
P & L: Pro-Hide Plus Latex Primer.

Second Coat: Interior Flat Latex Base Paint (FS TT-P-29).

Devoe: 36XX Wonder-Tones Interior Latex Flat Wall Paint.
Glidden: Y-3400 Line - Spred Satin Latex Wall Paint.
Moore: Moore's Regal Wall Satin.
Pittsburgh: 6-70 Speehide Latex Flat Wall Paint.
P & L: Pro-Hide Plus Latex Flat.

Odorless Semi-Gloss Alkyd Enamel Finish: 3 coats with total dry film thickness not less than 2.5 mils.

First Coat: Interior Latex Base Primer Coat (FS TT-P- 650).

Devoe: 50801 Wonder-Tones Latex Primer and Sealer.
Glidden: Y-3416 Spred Primer Sealer.
Moore: Moore's Latex Quick-Dry Primes seal.
Pittsburgh: 6-2 PPG Quick-Drying Interior Latex Primer Sealer.
P & L: Pro-Hide Plus Latex Primer.

Second and Third Coats: Odorless Interior Semi-Gloss Alkyd Enamel (FS TT-E-509).

Devoe: 26XX Velour Alkyd Semi-Gloss Enamel.
Glidden: Y-4600 Line - Spred Lustre Semi-Gloss.
Moore: Moore's Satin Impervo Enamel.
Pittsburgh: 27-109 Wall-Hide Semi-Gloss.
P & L: Pro-Hide Plus Alkyd Semi-Gloss Enamel.

Texured Paint Finish: 2 coat system.

First Coat: Interior latex paint with sand additive.

Moore: 38701

Second Coat: Interior latex paint.

Moore: 38701

Plaster:

Lusterless (Flat) Emulsion Finish: 2 Coats.

First Coat: Interior Flat Latex Base Paint (FS TT-P-29).

Devoe: 36XX Wonder-Tones Interior Latex Flat Wall Paint.
Glidden: Y-3400 Line - Spred Satin.
Moore: Moore's Latex Quick-Dry Prime Seal.
Pittsburgh: 6-70 Speedhide Latex Flat Paint.
P & L: Pro-Hide Plus Latex Flat Paint.

Second Coat: Interior Flat Latex Base Paint (FS TT-P-29).

Devoe: 36XX Wonder-Tones Interior Latex Flat Wall Paint.
Glidden: Y-3400 Line - Spred Satin.
Moore: Moore's Regal Wall Satin.
Pittsburgh: 6-70 Speedhide Latex Flat Wall Paint.
P & L: Pro-Hide Plus Latex Flat Paint.

Ferrous Metal:

Semi-Gloss Enamel Finish: 2 Coats over primer, with total dry film thickness not less than 2.5 mils.

Prime Coat: Red Lead Base Primer (FS TT-P-86). Prime coat is not required on items delivered shop primed.

Devoe: 41821 Bar-Ox Red Lead Metal Primer.
Glidden: Y-5532 - Glid-Guard Red Lead Metal Primer.
Moore: Iron-Clad Retardo Rust Inhibitive Paint.
Pittsburgh: U610424 Speedhide Red Lead Primer.
P & L: P & L Red Lead Primer.

First Coat: Interior Enamel Undercoat (FS TT-E-543).

Devoe: 8801 Velour Alkyd Enamel Undercoat.
Glidden: Y-4600 Series SpredLustre Semi-Gloss Enamel.
Moore: Moore's Alkyd Enamel Underbody.
Pittsburgh: 6-6 Speedhide Quick-Drying Enamel Undercoater.
P & L: Interior Trim Primer.

Second Coat: Odorless Interior Semi-Gloss Enamel (FS TT-E- 509.

Devoe: 26XX Velour Alkyd Semi-Gloss Enamel.
Glidden: Y-4600 Line - Spred Lustre Semi-Gloss.
Moore: Moore's Satin Impervo Enamel.
Pittsburgh: 27-109 Wall-Hide Semi-Gloss Enamel.
P & L: Pro-Hide Plus Alkyd Semi-Gloss Enamel.

Zinc-Coated Metal:

Semi-Gloss Finish: 2 Coats over primer, with total dry film thickness not less than 2.5 mils.

Prime Coat: Zinc-Dust - Zinc Oxide Primer Coating (FS TT- P-641).

Devoe: 14100 Zinc Dust Primer.
Glidden: Y-5229 - Glid-Guard All-Purpose Metal Primer.
Moore: Iron-Clad Galvanized Metal Primer.
Pittsburgh: 6-215/6-216 Speedhide Galvanized Steel Paint Zinc Dust.

Second Coat: Interior Enamel Undercoat (FS TT-E-543).

Devoe: 8801 Velour Alkyd Enamel Undercoat.
Glidden: Y-4600 Series Spred Lustre Semi-Gloss Enamel.
Moore: Moore's Alkyd Enamel Underbody.
Pittsburgh: 6-6 Speedhide Quick-Drying Enamel Undercoater.
S-W: S-W Pro-Mar Alkyd Semi-Gloss.

Third Coat: Odorless Interior Alkyd Semi-Gloss Enamel (FS TT-P-509).

Devoe: 26XX Velour Alkyd Semi-Gloss Enamel.
Glidden: Y-4600 Line - Spred Lustre Semi-Gloss.
Moore: Moore's Satin Impervo Enamel.
Pittsburgh: 27-109 Wall-Hide Semi-Gloss Enamel.

Painted Woodwork and Hardboard:

Semi-Gloss Enamel Finish: 3 Coats.

First Coat: Interior Enamel Undercoat (FS TT-E-543).

Devoe: 8801 Velour Alkyd Enamel Undercoat.
Glidden: Y-555-Line - Spred Undercoater.
Moore: Moore's Alkyd Enamel Underbody.
Pittsburgh: 6-6 Speedhide Quick-Drying Enamel Undercoater.
P & L: Interior Trim Primer.

Second and Third Coats: Odorless Interior Semi-Gloss Enamel (FS TT-E-509).

Devoe: 26XX Velour Alkyd Semi-Gloss Enamel.
Glidden: Y-4600 Line - Spred Lustre Semi-Gloss.
Pittsburgh: 27-109 Wall-Hide Semi-Gloss Enamel.
P & L: Pro-Hide Plus Alkyd Semi-Gloss Enamel.

Natural/Stained Woodwork:

Satin Alkyd Finish: 2 coats plus filler and stain.

First Coat: 1 coat paste wood filler (if specified on open grain woods).

P & L: P & L Paste Filler

Second Coat: 1 coat wood stain (if stained finish).

P & L: Tonetic Wood Stain.

Third Coat: 1 coat sanding sealer.

P & L: P & L Sanding Sealer.

Fourth Coat: 1 coat clear alkyd finish.

P & L: P & L 38 Clear Finish.

SEE PAINT SCHEDULE BY OWNER'S INTERIOR DESIGNER

END OF SECTION 09900

SECTION 09950 - WALLCOVERINGS

PART 1 - GENERAL

RELATED DOCUMENTS:

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

DESCRIPTION OF WORK:

Extent of wallcovering work is indicated on drawings and in schedule provided by Interior Designer.

Work included in this section includes furnishing of all installation and miscellaneous materials and installation of Owner supplied wallcovering materials.

QUALITY ASSURANCE:

Manufacturer: Provide each type of wall covering as produced by a single manufacturer, including recommended primers, adhesives, and sealants.

Installer: A firm specializing in wallcovering work with not less than three years of experience in installing wallcoverings similar to those required for this project.

Test Panels: Install 3 test panels of full usable width, including one corner, in areas designated by Architect. Replace test panels which are not acceptable to Architect until satisfactory installation is achieved.

SUBMITTALS:

Product Data: Submit manufacturer's technical data and installation instructions for each type of installation material.

Certification: Submit manufacturer's certification that materials furnished comply with requirements specified.

DELIVERY AND STORAGE:

General: Comply with instructions and recommendations of manufacturer and as herein specified.

Deliver materials to project site in original packages or containers clearly labeled to identify manufacturer, brand name, quality or grade, and fire hazard classification.

Store materials in original undamaged packages or containers. Maintain temperature in storage area above 40°F (4°C).

JOB CONDITIONS:

Maintain constant minimum temperature of 60°F (16°C) at areas of installation for at least 72 hours before and 48 hours after application of materials.

Illuminate areas of installation using building's permanent lighting system; temporary lighting alone will not be acceptable.

PART 2 - PRODUCTS

WALLCOVERING:

Wallcoverings will be supplied by Owner.

ACCESSORY ITEMS:

Adhesives: Provide manufacturer's recommended adhesive, primer, and sealer, produced expressly for use with selected wallcovering on substrate as shown on drawings. Provide materials which are mildew-resistant and nonstaining to wall covering.

Release Coat: Oil base sealer or enamel undercoater for virgin drywall substrates as recommended by wallcovering manufacturer.

Corner Guards: Provide clear vinyl corner guards, 1" x 1" x 48" at all outside corners in public corridors and areas.

PART 3 - EXECUTION

PREPARATION:

Acclimatize wall covering materials by removing from packaging in area of installation not less than 24 hours before application.

Remove switchplates, wall plates, and surface-mounted fixtures in areas where wall covering is to be applied.

Prime and seal substrates in accordance with wallcovering manufacturer's recommendations for type of substrate Apply surface sealer to gypsum drywall which will permit subsequent removal of wall covering without damage to paper facing.

Test substrates with electronic moisture meter to verify that surfaces to be covered do not exceed 4% moisture content.

INSTALLATION:

Vinyl Wallcovering:

Place wallcovering panels consecutively in order cut from rolls, including filling of spaces above or below openings Hang by reversing alternate strips except on match patterns.

Apply adhesive to back of wallcovering and place in accordance with manufacturer's instructions. Install seams plumb, and at least 6" away from corners. Horizontal seams are not permitted. Overlap seams and double-cut to assure tight closure. Roll, brush, or use broad knife to remove air bubbles, wrinkles, blisters, and other defects. Cut wall covering evenly to edges of outlet boxes or support.

Trim selvages as required to assure color uniformity and pattern match.

Remove excess adhesive along finished seams while it is still wet using warm water and clean sponge, and wipe dry.

ADJUST AND CLEAN:

Replace removed plates and fixtures; verify cut edges of wall coverings are completely concealed.

Install corner guards according to manufacturer's instructions.

Remove surplus materials, rubbish, and debris resulting from wall covering installation upon completion of work, and leave areas of installation in neat, clean condition.

REFER TO SCHEDULE OF WALLCOVERINGS BY INTERIOR DESIGNER

END OF SECTION 09950