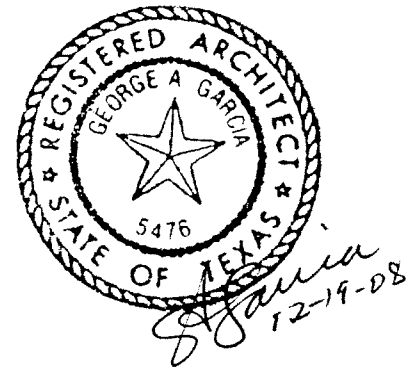


Hidalgo County
Former Administration Building
3rd Floor Remodel



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PROJECT COORDINATION

SUMMARY

This Section specifies administrative and supervisory requirements necessary for Project coordination including, but not necessarily limited to:

- Coordination of all work activities.
- Administrative and supervisory personnel.
- General installation provisions.
- Cleaning and protection of installations.

COORDINATION

Owner to coordinate construction activities included under various Sections of these Specifications to assure efficient and orderly installation of each part of the Work. Coordinate construction operations included under different Sections of the Specifications that are dependent upon each other for proper installation, connection, and operation.

Where installation of one part of the Work is dependent on installation of other components, either before or after its own installation, schedule construction activities in the sequence required to obtain the best results.

Where availability of space is limited, coordinate installation of different components to assure maximum accessibility for required maintenance, service and repair.

Make adequate provisions to accommodate items scheduled for later installation.

Where necessary, prepare memoranda for distribution to each party involved outlining special procedures required for coordination. Include such items as required notices, reports, and attendance at meetings.

Owner's Administrative Procedures: Coordinate scheduling and timing of required administrative procedures with other construction activities to avoid conflicts and ensure orderly progress of the Work. Such activities include, but are not limited to, the following:

- Permits from governing authorities.
- Accessibility Plan Review.
- Preparation of schedules for purchases and deliveries.
- Administration of contracts for labor and materials.
- Field Supervision and documentation.
- Quality control services.
- Delivery and processing of Submittals.
- Progress meetings.
- Project Close-out activities.
- Post-construction Accessibility Inspection

SUBMITTALS

Review drawings where close and careful coordination is required for installation of products and materials fabricated off-site by separate entities, and where limited space availability necessitates maximum utilization of space for efficient installation of different components.

GENERAL INSTALLATION RECOMMENDATIONS

Inspection of Conditions: Require the Installer of each major component to inspect both the substrate and conditions under which Work is to be performed. Do not proceed until unsatisfactory conditions have been corrected in an acceptable manner.

Manufacturer's Instructions: Comply with manufacturer's installation instructions and recommendations, to the extent that those instructions and recommendations are more explicit or stringent than requirements contained in Contract Documents.

Inspect materials or equipment immediately upon delivery and again prior to installation. Reject damaged and defective items.

Provide attachment and connection devices and methods necessary for securing Work. Secure Work true to line and level. Allow for expansion and building movement.

Visual Effects: Provide uniform joint widths in exposed Work. Arrange joints in exposed Work to obtain the best visual effect. Refer questionable choices to the Architect for final decision.

Recheck measurements and dimensions, before starting each installation.

Install each component during weather conditions and Project status that will ensure the best possible results. Isolate each part of the completed construction from incompatible material as necessary to prevent deterioration.

Coordinate temporary enclosures with required inspections and tests, to minimize the necessity of uncovering completed construction for that purpose.

Mounting Heights: Where mounting heights are not indicated, install individual components at standard mounting heights recognized within the industry for the particular application indicated, and in compliance with the Americans with Disabilities Act. Refer questionable mounting height decisions to the Architect for final decision.

CLEANING AND PROTECTION

Owner to clean and protect construction in progress and adjoining materials in place and to apply protective covering where required to ensure protection from damage or deterioration at Substantial Completion.

Owner to clean and maintain completed construction as frequently as necessary through the remainder of the construction period and to adjust and lubricate operable components to ensure operability without damaging effects.

Limiting Exposures: Owner to supervise construction activities to ensure that no part of the construction, completed or in progress, is subject to harmful, dangerous, damaging, or otherwise deleterious exposure during the construction period. Where applicable, such exposures include, but are not limited to, the following:

- Excessive static or dynamic loading.

- Excessive internal or external pressures.

Excessively high or low temperatures.
Thermal shock.
Excessively high or low humidity.
Air contamination or pollution.
Water or ice.
Solvents.
Chemicals.
Light.
Puncture.
Abrasion.
Heavy traffic. soiling, staining and corrosion.
Bacteria.
Rodent and insect infestation.
Combustion.
Electrical current.
Unusual wear or other misuse.
Contact between incompatible materials.
Destructive testing.
Misalignment.
Excessive weathering.
Unprotected storage.
Improper shipping or handling.
Theft.
Vandalism.

END OF SECTION

FINISH CARPENTRY

DESCRIPTION OF WORK:

Definition: Finish carpentry includes carpentry work which is exposed to view, is non-structural, and which is not specified as part of other sections.

Types of finish carpentry work in this section include: Interior trim.

Rough carpentry is specified in a separate Section.

Builders hardware and wood doors are specified in separate Sections.

QUALITY ASSURANCE:

Factory-mark each piece of lumber and plywood with type, grade, mill and grading agency identification; except omit marking from surfaces to receive transparent finish.

PRODUCT DELIVERY, STORAGE AND HANDLING:

Protect finish carpentry materials during transit, delivery, storage and handling to prevent damage, soiling and deterioration.

JOB CONDITIONS:

Conditioning: Installer shall advise Contractor of temperature and humidity requirements for finish carpentry installation areas. Do not install finish carpentry until required temperature and relative humidity conditions have been stabilize and will be maintained in installation areas.

WOOD PRODUCT QUALITY STANDARDS:

Softwood Lumber Standards: Comply with PS 20 and with applicable grading rules of the respective grading and inspecting agency for the species and product indicated.

Plywood Standard: Comply with PS 1/ANSI A199.1.

Hardwood Plywood Standard: Comply with PS 51.

MATERIALS:

Nominal sizes are indicated, except as shown by detailed dimensions. Provide dressed or worked and dressed lumber, as applicable, manufactured to the actual sizes as required by PS 20 or to actual sizes and patterns as shown, unless otherwise indicated.

Moisture Content of Hardwood Lumber: Provide kiln-dried (KD) lumber having a moisture content from time of manufacture until time of installation within the ranges required in the reference woodworking standard.

Lumber for Painted Finish: At Contractor's option, use pieces which are either glued-up lumber or made of solid lumber stock.

Fasteners and Anchorages: Provide nails, screws and other anchoring devices of the type, size, material, and finish required to provide secure attachment, concealed where possible.

PREPARATION:

Condition wood materials to average prevailing humidity conditions in installation areas prior to installing.

Back prime lumber for painted finish exposed on the exterior or, where indicated, to moisture and high relative humidities on the interior. Comply with requirements of section on painting within Division 9 for primers and their application.

INSTALLATION:

Discard units of material which are unsound, warped, bowed, twisted, improperly treated, not adequately seasoned or too small to fabricate work with minimum of joints or optimum jointing arrangements, or which are of defective manufacturer with respect to surfaces, sizes or patterns.

Install the work plumb, level, true and straight with no distortions. Shim as required using concealed shims. Install to a tolerance of 1/8" in 8'0" for plumb and level counter tops; and with 1/16" maximum offset in flush adjoining 1/8" maximum offsets in revealed adjoining surfaces.

Scribe and cut work to fit adjoining work, and refinish cut surfaces or repair damaged finish at cuts.

Anchor finish carpentry work to anchorage devices or blocking built-in or directly attached to substrates. Secure to grounds, stripping and blocking with countersunk, concealed fasteners and blind nailing as required for a complete installation. Except where pre-finished matching fasteners heads are required, use fine finishing nails for exposed nailing, countersunk and filled flush with finished surface, and matching final finish where transparent is indicated.

ADJUSTMENT, CLEANING, FINISHING AND PROTECTION:

Repair damaged and defective finish carpentry work wherever possible to eliminate defects functionally and visually; where not possible to repair properly, replace woodwork. Adjust joinery for uniform appearance.

Clean finish carpentry work on exposed and semi-exposed surfaces. Touch-up shop-applied finishes to restore damaged or soiled areas.

Protection: Installer of finish carpentry work shall advise Contractor of final protection and maintained conditions necessary to ensure that work will be without damage or deterioration at time of acceptance.

END OF SECTION

CABINETRY

SUMMARY

This Section includes :

Interior Wood Trim, shelves
Base and wall cabinets
Plastic-laminate finishes

Rough Carpentry, Finish Carpentry and Painting” are specified separately.

DEFINITION

Interior architectural woodwork includes wood furring, blocking, shims, and hanging strips for installing woodwork items unless concealed within other construction prior to woodwork installation.

QUALITY ASSURANCE

Fabricator Qualifications: Firm experienced in producing architectural woodwork similar to that indicated for this Project and with a record of successful in-service performance, as well as sufficient production capacity to produce required units without delaying the Work.

Single-Source Responsibility for Fabrication and Installation: Engage a qualified woodworking firm to assume undivided responsibility for fabricating, finishing, and installing woodwork specified in this Section.

Quality Standard: Except as otherwise indicated, comply with the following standard:

AWI Quality Standard: “Architectural Woodwork Quality Standards” of the Architectural Woodwork Institute for grades of interior architectural woodwork, construction, finishes, and other requirements.

Surface-Burning Characteristics: Not exceeding: Flame Spread: 25. Smoke Developed: 450.

DELIVERY, STORAGE, AND HANDLING

Protect woodwork during transit, delivery, storage, and handling to prevent damage, soilage, and deterioration.

Do not deliver woodwork until painting and similar operations that could damage, soil, or deteriorate woodwork have been completed in installation areas. If woodwork must be stored in other than installation areas, store only in areas whose environmental conditions meet requirements specified in “Project Conditions.”

PROJECT CONDITIONS

Environmental Limitations: Do not deliver or install woodwork until building is enclosed, wet-work is completed, and HVAC system is operating.

Field Measurements: Where woodwork is indicated to be fitted to other construction, check actual dimensions of other construction by accurate field measurements before fabrication.

COORDINATION

Coordinate sizes and locations of framing, blocking, furring, reinforcements, and other related units of Work specified in other Sections to ensure that interior architectural woodwork can be supported and installed as indicated.

MATERIALS

General: Provide materials that comply with requirements of the AWI quality standard for each type of woodwork and quality grade indicated.

High-Pressure Decorative Laminate:

Subject to compliance with requirements, manufacturers offering high-pressure decorative laminates that may be incorporated in the Work include, but are not limited to, the following:

Formica Corporation. Nevamar Corp WilsonArt

CABINET HARDWARE AND ACCESSORY MATERIALS - See Plans

INSTALLATION MATERIALS

Screws: Select material, type, size, and finish required for each use. Comply with ASME BI 8.6.1 for applicable requirements.

Nails: Select material, type, size, and finish required for each use. Comply with FS FFN-i 05 for applicable requirements.

Anchors: Select material, type, size, and finish required for each substrate for secure anchorage.

FABRICATION, GENERAL

Interior Woodwork Grade: Provide interior woodwork complying with the referenced quality standard and of the following grade: Custom

Complete fabrication, including assembly, finishing, and hardware application, before shipment to Project site to maximum extent possible. Disassemble components only as necessary for shipment and installation.

Trial fit assemblies at the fabrication shop that cannot be shipped completely assembled. Install connectors, and other fastening devices that can be removed after trial fitting.

Shop-cut openings, to maximum extent possible, to receive hardware, appliances, plumbing fixtures, electrical work, and similar items. Locate openings accurately and use templates or roughing-in diagrams to produce accurately sized and shaped openings. Smooth edges of cutouts and, where located in countertops and similar exposures, seal edges with a water-resistant coating.

ADJUSTING AND CLEANING

Repair damaged and defective woodwork where possible to eliminate functional and visual defects. Where not possible to repair, replace woodwork. Adjust joinery for uniform appearance.

Provide final protection and maintain conditions in a manner acceptable to fabricator and Installer that ensures that woodwork is without damage or deterioration at the time of Substantial Completion.

END OF SECTION

INSULATION

DESCRIPTION OF WORK

Extent of insulation work is shown on drawings and indicated by provisions of this section. Applications of insulation specified in this section include the following:

Blanket-type building thermal insulation. (ceilings)
Sound attenuation batt Insulation

QUALITY ASSURANCE

Maximum Allowable Asbestos Content of Inorganic Insulations: Provide insulations composed of mineral fibers or mineral ores which contain less than 0.25% by weight of asbestos of any type or mixture of types occurring naturally as impurities as determined by polarized light microscopy test per Appendix A of 40 CFR 763.

DELIVERY, STORAGE, AND HANDLING

Protect insulations from physical damage and from becoming wet or soiled. Comply with manufacturer's recommendations for handling, storage and protection during installation.

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:

Owens Corning Celotex Corp. Manville Corp.

MATERIALS

Provide insulating materials which comply with characteristics as indicated by the materials listed below.

Wall Insulation: 3 1/2" Flexible fiberglass, unfaced, lengths as required, R-11.
16" wide min.

Ceiling insulation: Flexible fiberglass, Kraft paper one side, R-19,
Owens Corning 'Sonobatts'. 24" x 48"

Sound attenuation batts: 3 5/8" thick, Sound Control fiberglass batts, 16" wide, unfaced,
friction-fit installation.

INSPECTION AND PREPARATION

Require Installer to examine substrates and conditions under which insulation work is to be performed. Clean substrates of substances harmful to insulations or vapor retarders, including removal of projections which might puncture vapor retarders.

INSTALLATION

Comply with manufacturer's instructions for particular conditions of installation in each case.

Extend insulation full thickness as shown over entire area to be insulated. Cut and fit tightly around obstructions, and fill voids with insulation. Remove projections which interfere with placement. Comply with manufacturer's recommendations. Friction fit within wall framing members. Install to a height of 8" above suspended ceilings.

END OF SECTION

CAULKING

SUMMARY

This Section includes joint sealers for the following locations:

Exterior joints in vertical surfaces and non-traffic horizontal surfaces as indicated below.

Joints between different materials.
Other joints as indicated on plans.

Interior joints in vertical surfaces and horizontal non-traffic surfaces as indicated below:

Perimeter joints between interior wall surfaces and frames of interior doors & windows.
Perimeter joints at bottoms of toilet fixtures and other joints as indicated.

QUALITY ASSURANCE

Obtain joint sealer materials from a single manufacturer for each different product required.

DELIVERY, STORAGE, AND HANDLING

Deliver materials to Project site in original unopened containers. Store and handle materials in compliance with manufacturers' recommendations to prevent their deterioration or damage.

PROJECT CONDITIONS

Joint Width Conditions: Do not proceed with installation of joint sealers where joint widths are less than allowed by joint sealer manufacturer for application indicated.

Joint Substrate Conditions: Do not proceed with installation of joint sealers until contaminants capable of interfering with their adhesion are removed from joint substrates.

MATERIALS

Provide joint sealers, joint fillers and other related materials that are compatible with one another and with joint substrates.

Colors: Provide color of exposed joint sealers as selected from manufacturer's standard colors.

MISCELLANEOUS MATERIALS

Provide type recommended by joint sealer manufacturer where required for adhesion of sealant to joint substrates indicated, as determined from preconstruction joint sealer-substrate tests and field tests.

Provide non-staining, chemical cleaners of type which are acceptable to manufacturers of sealants and sealant backing materials,.

PREPARATION

Clean out joints immediately before installing joint sealers to comply with recommendations of joint sealer manufacturers and the following requirements:

Remove all foreign material from joint substrates which could interfere with adhesion of joint sealer, including dust; paints, except for permanent, protective coatings tested and approved for sealant

adhesion and compatibility by sealant manufacturer; old joint sealers; oil; grease; waterproofing; water repellants; water; surface dirt; and frost.

Joint Priming: Prime joint substrates where indicated or where recommended by joint sealer manufacturer based on preconstruction joint sealer-substrate tests or prior experience.

INSTALLATION

Comply with joint sealer manufacturers' printed installation instructions. Install sealants by proven techniques that result in sealants directly contacting and fully wetting joint substrates, completely filling recesses provided for each joint configuration, and providing uniform, cross-sectional shapes and depths relative to joint widths which allow optimum sealant movement capability.

CLEANING

Clean off excess sealants or sealant smears adjacent to joints as work progresses by methods and with cleaning materials approved by manufacturers of joint sealers and of products in which joints occur.

PROTECTION

Protect joint sealers during and after curing period from contact with contaminating substances or from damage resulting from construction operations or other causes so that they are without deterioration or damage at time of Substantial Completion. If, despite such protection, damage or deterioration occurs, cut out and remove damaged or deteriorated joint sealers immediately and installations with repaired areas indistinguishable from original work

.END OF SECTION

ALUMINUM ENTRANCE

Summary

Section based on Kawneer Aluminum Entrance, glass and glazing, and door hardware and components.
Type of aluminum entrance : 350 Heavy Wall™ Door; Medium stile, 3-1/2" (89) vertical face dimension, 2" (51) depth, 3/16" (5), wall thickness, high traffic applications.

Submittals

Prepare and submit shop drawings, product data, shop drawings and similar items for review.

Warranty: Submit, for Owner's acceptance, manufacturer's warranty for entrance system as follows:

Two (2) years from Date of Substantial Completion of the project provided however that the Limited Warranty shall begin in no event later than six months from date of shipment by manufacturer.

Quality Assurance

Installer experienced to perform work of this section who has specialized in the installation of work similar to that required for this project and who is acceptable to product manufacturer.

Delivery, Storage and Handling

Comply with manufacturer's ordering instructions and lead-time requirements to avoid construction delays.
Packing, Shipping, Handling, and Unloading: Deliver materials in manufacturer's original, unopened, undamaged containers with identification labels intact.

Storage and Protection: Store materials protected from exposure to harmful weather conditions. Handle entrance doors and components to avoid damage. Protect entrance doors against damage from elements, construction activities, and other hazards before, during and after entrance installation.

Substitutions:

Product Literature and Drawings: Submit product literature and drawings modified to suit specific project requirements and job conditions.

Materials

Aluminum

1. Material Standard: ASTM B 221; 6063-T6 alloy and temper
2. The door shall be 2" thick and stile and rail face dimensions of:

Door	Vertical Stile	Top Rail	Bottom Rail
350 Heavy Wall	3-1/2"	3-17/32"	10"
3. Major portions of the door members to be 0.188" nominal in thickness and glazing molding to be 0.05" thick.
4. Tolerances: Reference to tolerances for wall thickness and other cross-sectional dimensions of entrance members are nominal and in compliance with Aluminum Standards and Data, published by The Aluminum Association.

Glazing gaskets shall be either EPDM elastomeric extrusions or a thermoplastic elastomer.

Provide adjustable glass jacks to help center the glass in the door opening.

Fasteners: Where exposed, shall be aluminum, stainless steel or plated steel.

Perimeter Anchors: Aluminum. When steel anchors are used, provide insulation between steel material and aluminum material to prevent galvanic action.

Standard 350 Heavy Wall™ Entrance Hardware.

1. Butt Hinge: Standard Stainless Steel w/ Powder Coating & Non Removable Pin (NRP). (EL Hinge for access control).
2. Push/Pull: Style to be determined by Owner.
3. Exit Device: Panic
4. Closer: Standard, ADA compliant.

Examination

Verify substrate conditions (which have been previously installed under other sections) are acceptable for product installation in accordance with manufacturer's instructions. Verify openings is sized to receive entrances.

Field Measurements: Verify actual measurements/openings by field measurements before fabrication; show recorded measurements on shop drawings. Coordinate field measurements, fabrication schedule with construction progress to avoid construction delays.

Installation

Install entrance system in accordance with manufacturer's instructions and AAMA storefront and entrance guide specifications manual.

Attach to structure to permit sufficient adjustment to accommodate construction tolerances and other irregularities.

Provide alignment attachments and shims to permanently fasten system to building structure.

Align assembly plumb and level, free of warp and twist. Maintain assembly dimensional tolerances aligning with adjacent work.

Adjust operating hardware for smooth operation.

Cleaning and Protection

Cleaning: Remove temporary coverings and protection of adjacent work areas. Repair or replace damaged installed products. Clean installed products in accordance with manufacturer's instructions prior to owner's acceptance. Remove construction debris from project site and legally dispose of debris.

Protect installed product's finish surfaces from damage during construction. Protect aluminum entrance from damage from grinding and polishing compounds, plaster, lime, acid, cement, or other harmful contaminants. Remove and replace damaged aluminum entrances at no extra cost.

END OF SECTION

METAL STUD PARTITION FRAMING

GENERAL REQUIREMENTS

Work included: Furnish and install non structural cold formed metal framing complete with accessories as required for gypsum board partitions and furring, where shown

SUBMITTAL:

Provide material literature to Owner for review/approval.

Manufacturer recommendations: Provide all additional supplemental framing, bracing, and accessories recommended by the manufacturer for each system and condition not included or shown.

STANDARDS

Unless they are modified or exceeded by the requirements of this Specification, conform to framing system manufacturer's recommendations and then to the following specifications of the Gypsum Association:

For framing - "Installation of Screw-Type Steel Framing members to Receive Gypsum board."

Relation with other trades:

Mechanical, plumbing, electrical - Coordinate location of members of framing, suspension and furring systems so that fixtures, outlets, ducts, grilles, access doors, etc., may be properly installed in locations shown.

Reinforcing - Reinforce framing as necessary to accommodate work of other trades which will be attached to or bear on drywall construction. Reinforcing shall conform to drywall component manufacturer's recommendations. Provide back-up members to reinforce framing and provide support at surface mounted items such as finish hardware, toilet accessories, plumbing fixtures, railing supports. Verify specific requirements, provide 2x wood blocking in sufficient width to accommodate the required fastenings. Fasten the blocking rigidly to the drywall framing and close against the drywall facing. Building in other work - Cut, frame and fit this work around recessed, built into or penetrating work such as fittings, pipes, conduit, etc., and supports.

Workmanship: Vertical framing shall be tested with a straight edge both ways to establish that planes are true, plumb and level.

MATERIALS

Members: Cold formed ASTM A446, 33KSI yield minimum:, G60 galvanized steel, designed in accordance with AISI specification for Design of Cold Formed steel structural members, conforming to ASTM C645, having minimum properties and/or gauges shown. U.S. Gypsum Co. or approved equal.

Members: Unpunched, deep leg channel tracks, mating with tracked studs and matching in gauge. All studs to be 35/8" width.

Punched C studs, 20 ga., depth as shown or required. Tracks: Provide top and bottom track for all framing.

Studs: Screw studs to tracks through both flanges at jambs of openings, partition intersections and corners. Lay out studs uniformly to the given spacing full length of each wall. Provide headers behind exposed intermediate end joints in vertically applied board. Frame over and under openings.

Corners and intersections: Generally shall be butt lapped, with one partition extending complete thru the intersection and others abutting.

Bracing: Brace partitions penetrating suspended acoustic ceilings, other than barrier partitions, with diagonal stud struts to structure above not over 4 ft. centers, between corners and/or intersections. Box and/or bridge bracing as required by length to provide rigidity equal to corners and intersections.

Spacing: Where not otherwise shown:

Studs - 16 in. cc generally.

Bracing - 48" cc generally.

END OF SECTION.

GYPSUM DRYWALL

RELATED DOCUMENTS:

Drawings and general provisions of Contract, including apply to this Section.

SUMMARY:

Gypsum drywall required is indicated on Drawings. This Section includes gypsum board attached to wood framing members..

QUALITY ASSURANCE:

Obtain gypsum board and related joint treatment materials from a single manufacturer.

DELIVERY, STORAGE, AND HANDLING:

Deliver materials in original packages, containers or bundles bearing brand name and identification of manufacturer or supplier. Store materials inside under cover and keep them dry and protected against damage. Neatly stack gypsum boards flat to prevent sagging.

PROJECT CONDITIONS:

Minimum Room Temperatures: For nonadhesive attachment of gypsum board to framing, maintain not less than 40 deg F (4 deg C). For adhesive attachment and finishing of gypsum board maintain not less than 50 deg F (10 deg C) for 48 hours prior to application and continuously thereafter until drying is complete.

ACCEPTABLE MANUFACTURERS:

Gypsum Boards and Related Products:

Gold Bond Building Products Div., National Gypsum Co. United States Gypsum Co.

General: Provide gypsum board in maximum lengths available to minimize end-to-end joints.

Type: All Type X Edges: Tapered. Thickness: 5/8 in.

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

"Fire-Shield G"; Gold Bond Building Products Div., National Gypsum Co.

"SHEETROCK Brand FIRECODE 'C' Gypsum Panels"; United States Gypsum Co.

GYPSUM BOARD JOINT TREATMENT MATERIALS:

Provide materials complying with ASTM C 475, ASTM C 840, and recommendations of manufacturer of both gypsum board and joint treatment materials for the application indicated.

TEXTURE FINISH MATERIALS:

As selected by Owner

EXAMINATION:

Examine substrates to which drywall construction attaches or abuts and structural framing, with for compliance with requirements for installation tolerances and other conditions affecting performance of drywall construction. Do not proceed with installation until unsatisfactory conditions have been corrected.

APPLICATION AND FINISHING OF GYPSUM BOARD, GENERAL:

Install exposed gypsum board with face side out. Do not install imperfect, damaged or damp boards. Butt boards together for a light contact at edges and ends with not more than 1/16 inch open space between boards. Do not force into place.

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

Space fasteners in gypsum boards in accordance with referenced gypsum board application and finishing standard and manufacturer's recommendations.

END OF SECTION

CERAMIC TILE

GENERAL

Drawings and general provisions of Contract 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.

Types of tile work in this section include the following:

Unglazed ceramic mosaic floor tile.
Glazed wall tile.

QUALITY ASSURANCE:

Source of Materials: Obtain each color, grade, finish, type, composition, and variety of tile from a single source with resources to provide products of consistent quality in appearance and physical properties without delaying progress of the work.

Single-source Responsibility for Setting and Grouting Materials: Obtain ingredients of a uniform quality from one manufacturer for each cementitious and admixture component and from one source or producer for each aggregate.

Installer Qualifications: Engage an experienced Installer who has successfully completed tile installations similar in material, design, and extent to that indicated for Project.

SUBMITTALS:

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

DELIVERY, STORAGE, AND HANDLING:

Deliver and store packaged materials in original containers with seals unbroken and labels intact until time of use.

PROJECT CONDITIONS:

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

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.

standard or manufacturer's instructions.

ACCEPTABLE MANUFACTURERS:

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

American Olean Tile Co., Inc.,
Dal-Tile Corp.,
Interceramic
Dryset Mortars:
Summitville

Latex-Emulsion-Based Latex-Portland Cement Mortars:
American Olean Tile Co., Inc.
Laticrete International, Inc.

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.

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

TILE PRODUCTS:

Unglazed Ceramic Mosaic Tile (equal to DalTile Price Group2, semi-gloss)

Type: Porcelain, factory-mounted flat tile
Nominal Facial Dimensions: 2" x 2".
Nominal Thickness: 1/4".
Face: Plain with cushion edges.

Glazed Porcelain Floor Tile Owner to designate areas for floor tile and to select tile size, color and manufacturer.

Glazed Wall Tile (equal to DalTile Price Group 2)

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 modified square edge or cushion edge.
Mounting: Factory back-mounted.

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

Wainscote cap: 2" x 6" bullnose

Internal Corners: Field-buttet square corners, except use coved base angle pieces designed to member with stretcher shapes.

SETTING MATERIALS:

Portland Cement Mortar Installation Materials: Provide materials to comply with ANSI A108.1 as required for installation method designated, unless otherwise indicated.

Latex-Portland Cement Mortar: ANSI A118.4 composition as follows:

Prepackaged dry mortar mix composed of Portland cement, graded aggregate, and the following dry polymer additive in the form of a re-emulsifiable powder to which only water is added at job site.

Latex additive (water emulsion) of type described below, serving as a replacement for part or all of gauging water, added at job site to prepackaged dry mortar mix supplied or specified by latex manufacturer.

GROUTING MATERIALS:

Latex-Portland Cement Grout: ANSI A118.6 color as indicated, composition as follows:

Latex additive (water emulsion) service as replacement for part or all of gauging water, added at job site with dry grout mixture, with type of latex and dry grout mix as follows:

Latex Type: Manufacturer's standard.

Latex Type: Acrylic resin.

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.

EXAMINATION:

Examine substrates and areas where 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.

PREPARATION:

Blending: For tile exhibiting color variations within the ranges selected during sample Submittals, verify that tile has been blended in factory and packaged accordingly so that tile units taken from one package show the same range in colors as those taken from other packages and match approved samples. If not factory blended, either return to manufacturer or blend tiles at Project site before installing.

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.

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.

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.

Portland Cement Mortar:

Bond coat: Latex-Portland cement mortar on cured bed, ANSI A108.5

Bond coat: Portland cement paste or dust coat on plastic bed.

CLEANING AND PROTECTION:

Upon completion of placement and grouting, clean all ceramic tile surfaces so they are free of foreign matter. Remove latex-Portland cement grout residue from tile as soon as possible.

Unglazed tile may be cleaned with acid solutions 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, unbanded, or otherwise defective tile work.

Provide final protection and maintain conditions in a manner acceptable to manufacturer and installer that ensures that tile is without damage or deterioration at time of Substantial Completion.

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 tiled floors for at least 7 days after grouting is completed.

END OF SECTION

ACOUSTICAL CEILING SUSPENSION SYSTEM

SCOPE:

Perform all work required to complete the Acoustical ceiling Steel exposed suspension system indicated by the Contract Documents and furnish all supplementary items for the proper installation.

SUBMITTAL:

Samples : Submit 12" x 12" samples of suspension system showing cross tee connection to main beam. Submit 12" long sample of angle molding.

ACCEPTABLE MANUFACTURERS:

Material manufactured by any of the following manufacturers is acceptable, provided it complies with the Contract Documents:

- a. ARMSTRONG
- b. CHICAGO METALLIC
- c. DONN PRODUCTS, INC.
- d. EASTERN PRODUCTS CORPORATION

MATERIALS: only as applicable.

STEEL EXPOSED SUSPENSION GRID SYSTEM: CHICAGO METALLIC FIRE FRONT 250 SYSTEM, chemically cleansed, electro-galvanized and bonderized, with high baked enamel finish on all parts and painted white enamel finish on exposed surfaces, ASTM C-635, maximum deflection 0.133 inch, Intermediate Duty.

1. Main Beams: .015 inch minimum commercial grade steel, bulb section, 1-1/2" web and 15/16" flange, 12 lbs. per lineal foot simple span minimum load limit. Rout beams at 12" on center.
2. Cross Tees: .015 inch minimum steel, 1-1/4 " web and 15/16" flange, force TAB-LOCK ends for attachment to adjoining beam cross tee, providing minimum torsional movement and lateral displacement. Rout tees at 12" on center.
3. Beam Cross Tees: .015 inch minimum steel, 1-1/2' web and flange formed TAB-LOCK ends for attachment to adjoining main beam, providing torsional movement and lateral displacement, 12 lbs. per lineal foot simple span minimum load limit. Rout tees at 12".
4. Angle Moulding: .020 inch minimum cold rolled steel, 15/16"x15/16".
5. Accessories: Specifically designed as an integral part of the grid system.
6. **Fire rated. Fire rated ceilings are required throughout. (1-Hr.)**

WIRE: 12 gauge galvanized, soft annealed, mild steel wire.

PREPARATION:

Examine spaces and correct defects that could interfere with proper installation. Installed suspension system shall meet requirements of " Specifications for Acoustical Tile and Lay-In Panel Ceiling Suspension System," published by the Acoustical Materials Association.

Install acoustical treatment after moist materials have been installed. maintain temperature and humidity conditions closely approximating the interior conditions which will exist when the building is occupied but not less than 50 degrees or more than 85 degrees F. before, during and after installation.

Layout spaces and arrange suspension system in a regular pattern parallel or perpendicular to surrounding walls. Arrange system symmetrically about room centerlines in both directions equalizing borders. No border shall be less than one -half the tile width.

STEEL EXPOSED SUSPENSION SYSTEM INSTALLATION:

Install angle moulding around perimeters and abutting surfaces, at proper level for finished ceiling height. Miter angle moulding at exterior corners; cut flanges and bend web to form interior corners.

Suspend main beams spaced 4'-0" on center from structure with wire hangers spaced 4'-0" on center. Install main beams level within 1/8" in 12 feet with hanger wire taut and tightly wrapped to prevent vertical movement or rotation. do not make local kinks or bends in hanger wires as a means of leveling. Join beams with approved splice unit. Install at 2'-0" o.c. where 24" x 24" ceiling tile is scheduled.

Install beam cross tees at right angles to main beams, space at 2'-0" on center and join to main beams with positive interlock. Install beam cross tees to within 1/32" of their required location and within 0.015 inch of the same horizontal plane as main beam, and never below continuous member.

Lay ends of main beams and cross tees on angle mouldings at vertical surfaces. Provide additional hanger wires at each corner of recessed light troffers and other concentrated load conditions to prevent deflection in excess of 1/240th of the span.

Install cross tees at right angles to beams cross tees to support ends of light fixtures, diffusers or grilles.

CLEANING AND PROTECTION

Protect acoustical materials and treatment from damage before, during and after installation. Clean to remove soil and stain. Remove and replace damaged units and units which cannot be cleaned. Remove excess materials and debris from Site.
See ceiling specifications for additional requirements for grid systems.

END OF SECTION

ACOUSTICAL CEILING LAY-IN PANELS

SCOPE

Perform all work required to complete the Acoustical Ceiling lay-In Panels indicated by the Contract Documents and furnish all supplementary items for their proper installation.

SUBMISSIONS

Samples: Submit 12"x12" samples of each type acoustical unit specified. Submit 12" long sample of angle molding.

ACCEPTABLE MANUFACTURERS

Material manufactured by any of the following manufacturers is acceptable provided it complies with the Contract Documents

Armstrong Building Products
Conweb Corporation
United States Gypsum

The Celotex Corporation
National Gypsum Company

MATERIALS

CEILING TILES, Equal to following: (all 1-hr. fire rated)

24" x 48" ceilings: Armstrong Cortega, Square Lay In , white, grid face: 15/16".

At end of project, leave extra ceiling panels on site for Owner's future use.

PREPARATION

Examine spaces and correct defects that could interfere with proper installation. Installed ceiling system shall meet requirements of " Specifications for Acoustical Tile and Lay-In Panel Ceiling Suspension System ", published by the Acoustical Materials Associations.

Install acoustical treatment after-moist materials have been installed. Maintain temperature and humidity conditions closely approximating the interior conditions which will exist when the building is occupied but not less than 50F degrees or more than 85F degrees before, during and after installation.

ACOUSTICAL PANEL INSTALLATION

Rest acoustical units on flanges of inverted tees with units neatly fitted against abutting surfaces. Fit acoustical units closely and accurately around recessed lighting fixtures, grilles and other fixtures or equipment passing through or in the plane of acoustical finish.

Hold acoustical units in place with a minimum of four hold-down clips per unit at entrances and over partitions. Provide additional hold down clips where acoustical units do not fit snug to system flanges.

INSULATION INSTALLATION

Install insulation blankets above ceilings where indicated with all joints butted tightly. Completely

cover entire surface with blankets free from wrinkles, sags, tears, raptures, etc. Lay batts flat in the ceiling without being compressed. place snug against each other so as to leave no space between batts.

CLEANING AND PROTECTION

Protect acoustical materials and treatment from damaged before, during and after installation. Clean to remove soil and stain. Remove and replace Damage units and units which cannot be cleaned. Remove excess materials and debris from site.

END OF SECTION

VINYL COMPOSITION FLOORING

RELATED DOCUMENTS

Drawings and general provisions of Contract apply to work of this section.

DESCRIPTION OF WORK

Extent of resilient flooring and accessories is shown on drawings and in schedules.

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.

Performance: Flame Spread: Not more than 75 per ASTM E 84.
Smoke Developed: Not more than 450 per ASTM E 84.
Smoke Density: Not more than 450 per ASTM E 662.

SUBMITTALS

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.

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 deg. F (18 deg. 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 deg. F (13 deg. 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 resilient flooring manufacturer's recommended bond and moisture test.

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

Armstrong World Industries, Inc.
Azrock Floor Products Div., Azrock Industries, Inc.
Kentile Floors, Inc.

Manufacturers of Vinyl Wall Base:

Mercer Armstrong Azrock

RESILIENT FLOORING COLORS AND PATTERNS:

Provide color and patterns as selected by the Owner from manufacturer's standards. Match

existing tile color and pattern as directed by Owner.

Vinyl Composition Tile: FS SS-T-312, Type IV; 12" x 12" and as follows:
Composition 1 - asbestos-free. Gage: 1/8", Standard grade.

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:

Wall Base: Height: 4". (Roll Stock)
Thickness: 1/8" gage.
Style: Standard top-set cove
Finish: Standard Matte

Adhesives (Cements): Waterproof, stabilized type as recommended by flooring manufacturer to suit material and substrate conditions.

Concrete Slab Primer: Non-staining type as recommended by flooring manufacturer.

Leveling and Patching Compounds: Latex types as recommended by flooring manufacturer.

INSPECTION

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.

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

PREPARATION

Prepare sub-floor 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 resilient 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.

Tightly cement resilient flooring to sub-base 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 TILE FLOORS

Lay tile from center marks established with principal walls, discounting minor offsets, so that tile at opposite edges of room area of equal width. Adjust as necessary to avoid use of cut widths less than 1/2 tile at room perimeters. Lay tile square to room axis.

Match tiles for color and pattern by using tile from cartons in same sequence as manufactured and packaged if so numbered. Cut tile neatly around all fixtures. Broken, cracked, chipped, or deformed tiles are not acceptable.

Lay tile with grain running in one direction.

Adhere tile flooring to substrates using full spread of adhesive applied in compliance with flooring manufacturer's directions.

Caulk around bottom of all door frames.

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.

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.

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

Clean resilient flooring not more than 4 days prior to date scheduled for inspections intended to establish date of substantial completion in each area of project. Clean resilient flooring by method recommended by resilient flooring manufacturer.

Strip protective floor polish, which was applied after completion of installation, prior to cleaning. Reapply floor polish after cleaning.

EXTRA STOCK

Deliver stock of maintenance materials to Owner

END OF SECTION

PAINTING

DESCRIPTION OF WORK

Extent of painting work is indicated on drawings and schedules, and as herein specified.

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

Surfaces to be Painted: Where items or surfaces are not specifically mentioned, paint the same as similar adjacent materials or areas. If color or finish is not designated, Owner will select these from standard colors or finishes available.

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

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.

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, Owner will furnish color chips for surfaces to be painted. Use representative colors when preparing samples for review. Provide a listing of material and application for each coat of each finish sample.

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.
- 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 deg. F (10 deg. C) and 90 deg. F (32 deg. 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 deg. F (7 deg. C) and 95 deg. F (35 deg. C), unless otherwise permitted by paint manufacturer's printed instructions.

Do not apply 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.

PRODUCTS

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:

PPG Industries, Pittsburgh Paints (Pittsburgh).

Pratt and Lambert (P & L).

The Sherwin-Williams Company (S-W).

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 corrected in a manner acceptable to Applicator.

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

SURFACE PREPARATION

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

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 and 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-finished immediately upon delivery to job. Prime edges, ends, faces, undersides, and backsides of such wood, including cabinets,

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

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.

Touch-up shop-applied prime coats wherever damaged or bare, where required by other sections of these specifications. Clean and touch-up with same type shop primer.

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

Apply paint in accordance with manufacturer's directions. Use applicators and techniques best suited for substrate and type of material being applied. Provide finish coats which are compatible with prime paints used.

SCHEDULING PAINTING:

Apply first-coat material to surfaces that have been cleaned, pre-treated 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 re-coat 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.

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

COMPLETED WORK:

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

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 care 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.

END OF SECTION

TOILET COMPARTMENTS

RELATED DOCUMENTS

Drawings and general provisions of the contract apply to work of this section.

SUMMARY

Extent of toilet partitions is indicated on drawings.

Type of toilet compartments : Plastic laminate finish.

Style of toilet compartments : Floor supported, overhead braced.

Toilet accessories, such as toilet paper holders, grab bars etc., are specified in a separate Section.

SUBMITTALS

Submit manufacturer's detailed technical data for materials, fabrication, and installation, including catalog cuts of anchors, hardware, fastenings, and accessories.

Submit shop drawings for fabrication of toilet partition assemblies.

Submit full range of standard color samples.

QUALITY ASSURANCE

Take field measurements prior to preparation of shop drawings and fabrication where possible, to ensure proper fitting of work. However, allow for adjustments within specified tolerances where ever taking of field measurements before fabrication might delay work.

Furnish inserts and anchorages which must be built into other work for installation of toilet partitions and related work; coordinate delivery with other work to avoid delay.

PRODUCTS

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:

Accurate Partitions Div., United States Gypsum Co.
American Sanitary Partition Corp.
Ampco Products Inc.
Bobrick Washroom Equipment, Inc.
Tex-Lam Manufacturing

MATERIALS

Provide materials which have been selected for surface flatness and smoothness. Exposed surfaces which exhibit pitting, seam marks, roller marks, stains, discolorations, telegraphing of core material, or other imperfections on finished units are not acceptable.

Plastic Laminate: NEMA Std. LD-3, minimum 0.050" thick.

Core Material for Plastic Laminate: Manufacturer's standard particleboard, in thickness to provide nominal dimension of 1" minimum for all components.

Pilaster Shoes: ASTM A 167, Type 302/304 stainless steel, not less than 3" high, 20 gage, finished to match hardware.

Stirrup Brackets: Manufacturer's standard design for attaching panels to walls and pilasters, either chromium-plated non-ferrous cast alloy ("Zamac") or anodized aluminum.

Hardware and Accessories: Manufacturer's standard design, heavy-duty operating hardware and accessories of chromium-plated non-ferrous cast alloy ("Zamac").

Overhead-Bracing: Continuous extruded aluminum, anti-grip profile, with clear anodized finish.

Anchorage and Fasteners: Manufacturer's standard exposed fasteners of stainless steel, or chromium-plated steel, finished to match hardware, with theft-resistant type heads and nuts. For concealed anchors, use hot-dip galvanized, cadmium-plated, or other rust-resistant protective-coated steel.

FABRICATION

Furnish units with cutouts, drilled holes, and internal reinforcement to receive partition-mounted hardware, accessories, and grab bars, as indicated.

Doors Dimensions: Furnish 24" wide toilet stalls and 36" wide at stalls equipped for use by handicapped as shown on plan.

Pressure-laminate one-piece face sheets to core material with no splices or joints, and with edges straight and sealed. Seal exposed core material at cutouts to protect against moisture.

Overhead-Braced Partitions: Furnish galvanized steel supports and leveling bolts at pilasters, as recommended by manufacturer to suit floor conditions. Make provisions for setting and securing continuous extruded aluminum anti-grip overhead-bracing at top of each pilaster. Furnish shoe at each pilaster to conceal supports and leveling mechanism.

Floor-Supported Partitions: Furnish galvanized steel anchorage devices, complete with threaded rods, lock washers, and leveling adjustment nuts at pilasters, to permit structural connection at floor. Furnish shoe at each pilaster to conceal anchorage.

Hardware: Furnish hardware for each compartment in partition system, as follows:

Hinges: Cutout inset type, adjustable to hold door open at any angle up to 90 degrees. Provide gravity type, spring-action cam type, or concealed torsion rod type, to suit manufacturer's standards.

Latch and Keeper: Manufacturer's standard surface-mounted latch unit, designed for emergency access, with combination rubber-faced door strike and keeper.

Coat Hook: Manufacturer's standard unit, combination hook and rubber-tipped bumper, sized to prevent door hitting mounted accessories.

Door Pull: Manufacturer's standard unit for out-swing doors.

INSTALLATION

General: Comply with manufacturer's recommended procedures and installation sequence. Install partitions rigid, straight, plumb, and level. Provide clearances of not more than 1/2" between pilasters and panels, and not more than 1" between panels and walls. Secure panels to walls with not less than two stirrup brackets attached near top and bottom of panel. Locate wall brackets so that holes for wall anchorages occur in masonry or tile joints. Secure panels to pilasters with not less than two stirrup brackets located to align with stirrup brackets at wall. Secure panels in position with manufacturer's recommended anchoring devices.

Overhead-Braced Partitions: Secure pilasters to floor and level, plumb, and tighten installation with devices furnished. Secure overhead-brace to each pilaster with not less than two fasteners. Hang doors and adjust so that tops of doors are parallel with overhead-brace when doors are in closed position.

Floor-Supported Partitions: Set pilaster units with anchorages having not less than 2" penetration into structural floor, unless otherwise recommended by partition manufacturer. Level, plumb, and tighten installation with devices furnished. Hang doors and adjust so that tops of doors are level with tops of pilasters when doors are in closed position.

ADJUST AND CLEAN

Hardware Adjustment: Adjust and lubricate hardware for proper operation. Set hinges on in-swinging doors to hold open approximately 30 degrees from closed position when unlatched. Set hinges on out-swinging doors (and entrance swing doors) to return to fully closed position.

Clean exposed surfaces of partition systems using materials and methods recommended by manufacturer, and provide protection as necessary to prevent damage during remainder of construction period.

END OF SECTION

ROOM IDENTIFICATION SIGNS

SIGNS: Provide and install plastic nameplates. All nameplates to include braille.

Engraved plastic name plates shall be manufactured by the Knight Manufacturing Company, Houston, Texas, or Matthews, Gemini Inc., Metallic Arts, A.R.K. Ramos, or OMC Industries. Room name plates shall be of size required for text.

Colors to be selected by Owner. Letters to be Helvetica Medium, 3/4" high.

Text for each name plate to be provided by Owner.

HANDICAP SIGNS FOR TOILET ROOMS:

shall be raised 1/32" and characters shall be a minimum of 5/8" high.

Text (2 of each) : **RESTROOM** + accessibility symbol and men adult symbol.
RESTROOM + accessibility symbol women adult symbol.

Install nameplates 60" A.F.F. to center line and 8" from door strike.

LETTERS: Provide and install building identification letters as follows:

Letters to be No.205 Prismatic Roman style with light bronze anodized finish.

Manufacturers: Matthews, Gemini, Southwell, Metallic Arts, A.R.K. Ramos

Installation to be with metal studs into stucco..

Letters required: (10" high, all caps) : **HIDALGO COUNTY DISTRICT ATTORNEY**
(6" high, caps & lower case) : **Misdemeanor Section**
(6" high, caps & lower case) : **Civil Section**

Letters shall be installed with concealed fasteners onto gyp. bd. Wall.

END OF SECTION

FIRE EXTINGUISHERS

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 fire extinguishers, cabinets and accessories is indicated on drawings.

Definition: "Fire extinguishers" as used in this section refers to units which can be hand-carried as opposed to those which are equipped with wheels or to fixed fire extinguishing systems.

Types of products required include:

Fire extinguishers. **7 required**

Fire extinguisher cabinets. **7 required**

QUALITY ASSURANCE

Obtain products in this section from one manufacturer. Provide portable fire extinguishers which are UL-listed and bear UL "Listing Mark" for type, rating, and classification of extinguisher indicated.

SUBMITTALS

Product Data: Submit product data for each type of product included in this section. For fire extinguisher cabinets include roughing-in dimensions and details showing mounting methods, relationships of box and trim to surrounding construction, door hardware, cabinet type and materials, trim style and door construction, and panel style and material. Submit manufacturer's color cards showing full range of standard colors available.

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:

J.L. Industries.
Larsen's Mfg. Co.
Johnson-Lee, Division of W.F. Lee Corp.
Muckle Manufacturing, Division of Technico, Inc.

FIRE EXTINGUISHERS

Fill and service extinguishers to comply with requirements of governing authorities and manufacturer's requirements.

Abbreviations indicated below to identify extinguisher types related to UL classification and rating system and not, necessarily to type and amount of extinguishing material contained in extinguisher.

Fire Extinguisher type: For A, B and C class fires. Rating to be as required by Fire Marshall , 10 lb. nominal capacity in enameled steel container.

FIRE EXTINGUISHER CABINETS

General: To match existing cabinets, provide MODEL C2409-R as manufactured by Larsen's Manufacturing Co.

Construction: Manufacturer's standard enameled steel box, with trim, frame, door and hardware to suit cabinet type, trim style, and door style indicated. Weld all joints and grind smooth. Miter and weld perimeter door frames.

Cabinet Type: Suitable for semi-recessed mounting in walls of shallow depth.

Trim Style: Fabricate trim in one piece with corners mitered, welded and ground smooth.

Exposed Trim: One-piece combination trim and perimeter door frame overlapping surrounding wall surface with exposed trim face and wall return at outer edge (backbend).

Rolled-Edge Trim: Rounded edges with backbend depth as follows:

Depth: 2-1/2".

Trim Metal: Of same metal as door.

Door Material and Construction: Manufacturer's standard door construction, of material indicated, coordinated with cabinet type and trim style selected.

Enameled Steel: Manufacturer's standard finish.

Door Glazing: One-piece clear plastic.

Door Style: Bubble type

Door Hardware : Concealed door pull, standard plated metal components , with bright chrome plated finish.

FACTORY FINISHING OF FIRE EXTINGUISHER CABINETS

General: Apply finishes in factory after products are assembled. Protect cabinets with plastic or paper covering, prior to shipment.

Painted Finishes: Provide painted finish to comply with requirements indicated below for extent, preparation and type:

Extent of Painted Finish: Apply painted finish to both concealed and exposed surfaces of cabinet components except where other than a painted finish is indicated.

Color: Provide color or color matches indicated, or, if not otherwise indicated, as selected by Architect from manufacturer's standard colors.

Preparation: Clean surfaces of dirt, grease, and loose rust or mill scale.

Baked Enamel Finish: Immediately after cleaning and pretreatment, apply cabinet manufacturer's standard baked enamel finish system to the following surfaces:

EXECUTION

Install items included in this section in locations and at mounting heights indicated, or if not indicated, at heights to comply with applicable regulations of governing authorities.

Prepare recesses in walls for fire extinguisher cabinets as required by type and size of cabinet and style of trim and to comply with manufacturer's instructions.

Securely fasten mounting brackets and fire extinguisher cabinets to structure, square and plumb, to comply with manufacturer's instructions.

IDENTIFICATION

Identify existence of fire extinguisher in cabinet with lettering spelling "FIRE EXTINGUISHER" applied to door by process indicated below. Provide lettering to comply with requirements indicated for letter style, color, size, spacing and location or, if not otherwise indicated, as selected by Architect from manufacturer's standard arrangements.

Application Process: Silk screen.

END OF SECTION

TOILET ROOM ACCESSORIES

GENERAL:

Drawings and general provisions of Contract apply to work of this section.

DESCRIPTION Provide and install accessories as scheduled herein.

PRODUCTS:

All toilet and bath accessories shall be complete with all required fastenings, and all fastenings shall harmonize with the item being fastened. Provide concealed fastenings

All exposed portions of toilet accessories shall be Type 304 stainless steel.

Provide products of the same manufacturer for each type of accessory unit and for units exposed in the same areas, wherever possible. Coordinate with the Architect for acceptable designs and finishes.

ACCESSORIES: (ASI numbers shown) :

Item	Item Number	Number required
Toilet Tissue Dispenser	0710	4
Soap Dispenser	0342	4
Paper Towel Dispenser	0210	4
Mirror	0620 (18"x 36")	8
Grab Bar	3200 Series (42")	4
Grab Bar	3200 Series (36")	4

Mounting heights to be as shown on plans.

END OF SECTION