

SECTION 08100
DOORS AND FRAMES

PART 1 GENERAL

1.01 SUMMARY

A. The section includes the following:

1. Hollow Metal Frames
2. Wood Doors

1.02 RELATED SECTIONS

A. Section 08700 Architectural Hardware

1.03 REFERENCES

A. General: Provisions for receiving hardware specified in Section "Architectural Hardware" shall be in accordance with applicable sections of ANSI A115.1 through A115.15. Reinforcement shall be of the same metal as the item to which it is applied.

PART 2 PRODUCTS

2.01 REINFORCEMENT FOR HOLLOW METAL FRAMES

A. Steel Frames: Minimum thickness of reinforcement or equivalent numbers of threads as defined in SDI-107 for steel hollow metal frames in decimal fractions of an inch and Manufacturer's Standard Gauge shall be as follows:

Hinges	0.1345 10 ga. X 12 inches
Locks, latches, strikes, flush bolts	0.1046 12 ga.
Door closers	0.1046 12 ga.
Other mortised hardware	0.1046 12 ga.
Other surface-applied hardware	0.1046 12 ga.

B. Welding of Hardware Reinforcement: Welding shall consist of continuous fillets at both edges of long dimension, ½" fillets not over 2" apart in both directions of contact surfaces. Spot welding shall not be used for aluminum items.

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2.02 HOLLOW METAL FRAMES, STEEL

- A. General: Form hollow metal frames for doors and glazed panels of prime quality cold-rolled steel no lighter than 16 gauge.
- B. Welded Frames: Units shall be factory welded and shall have intersections continuously welded with welds ground smooth. Where field assembly is necessary, secure the joints with concealed fasteners insofar as practicable, without the use of surface splice plates or other devices that interrupt the continuous surface. Assemblies shall be rigid and substantial. Frames shall include door silencers. Install three silencers for single doors and two silencers for head of frame for pairs of doors. Deliver door frames to the site with removable spacers at the bottom.
- C. Wall Anchors: Jamb members shall be anchored to adjacent construction with steel anchors spaced at top and bottom of frame and at intervals of not over 3 feet, using not less than 3 anchors per jamb. Anchors in masonry walls shall be adjustable.
- D. Floor Anchors: Extend jambs and mullions downward to the level of the structural floor slab where it is exposed and where it is under resilient or seamless flooring. Jambs extending to all types of floors shall have clip angles bolted to the floor slab. Mullions extending to all types of floors shall have adjustable floor anchors.
- E. Stops: Stops for doors and for glass shall be integral with the frames. Form beads of 16-gauge steel, mitered at corners, and secured with cross-recessed-head countersunk screws. Beads shall be properly spaced to receive the indicated glazing material.
- F. Finish: Finish shall consist of bonderizing (phosphate treatment) and one baked-on coat of prime paint, except that exterior frames shall be galvanized, bonderized, and painted with one coat of baked-on prime paint.

2.03 WOOD DOORS

- A. General: Interior doors shall be 1¾" thick, flush veneered with hardwood crossbands and particleboard cores, Algoma, or equal. Doors shall be machined to receive hardware and to fit specific openings, with glazing frames and louvers installed, ready to hang.
- B. Solid Core Doors for Transparent Finish: Comply with the following requirements
 - 1. Grade: Custom, Grade A faces.
 - 2. Species and Cut: White Birch.

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3. Match Between Veneer Leaves: Slip match.
 4. Vertical Match: Use full-height veneer, no end matching.
 5. Construction: 5 plies.
 6. Core: Particleboard core.
- C. Blocking: Hardwood blocking shall be provided for hardware specified in Section 08700, "Architectural Hardware." Blocking shall be provided so that screws fasten into hardwood for their complete length.
- D. Non-hinged side of doors shall be beveled $\frac{1}{8}$ " in 2".

PART 3 EXECUTION

3.01 HOLLOW METAL FRAME PREPARATION

- A. Door frames shall be prepared at the factory for the installation of the specified finishing hardware. Frames shall be mortised, reinforced, drilled, and tapped to templates as required for the work, and shall be punched for installation of the specified door silencers. Cover boxes for hinge reinforcements and strike cutouts shall be provided and shall not be lighter than 24 gauge galvanized sheet steel welded in place.

3.02 INSTALLATION

- A. Frames shall be set accurately in position, plumb, square, level and in alignment, and shall be securely anchored in accordance with the manufacturer's directions and approved shop drawings. Wood doors cut on the site shall be sealed immediately after cutting, using a clear water-resistant varnish or sealer. Doors shall be hung accurately with proper clearances and shall be adjusted for proper and easy operation.

3.03 PROTECTION AND CLEANING

- A. After installation, doors and frames shall be protected from damage during subsequent construction activities. Upon completion, surfaces shall be cleaned following the procedure recommended by the door manufacturer.

END OF SECTION

SECTION 08700

ARCHITECTURAL HARDWARE

PART 1 GENERAL

1.01 DESCRIPTION OF WORK

- A. Hardware shall be suitable for the use required and shall fit the designated location. Should any hardware shown fail to meet the requirements of the intended use or require modification to suit or fit the designated location, seek necessary modification in time to avoid delay in the manufacture and delivery of hardware.
- B. The supplier shall make periodic checks during construction in order to see that the architectural hardware furnished by him is properly installed.
- C. Furnish hardware with all fastenings. The supplier shall assemble hardware. Package and mark each item to provide easy identification of the door for which it is intended. Exterior fastenings shall be stainless steel. Exposed parts of bolts and screws used in the interior of the building shall have the same finish as the hardware they secure. Provide through bolting with setscrews for surface-mounted hardware on all wood doors.
- D. Finishes shall conform to BHMA Standard 1301.

1.02 WORK SPECIFIED ELSEWHERE

- A. Hardware for the following items is specified as part of the work of other sections:
 - 1. Section 12390, "Kitchen Cabinets."
 - 2. See Section 08100, "Doors and Frames."

1.03 SUBMITTALS

- A. Preliminary Data: Submit preliminary data including a list of proposed hardware, the manufacturer's name, and catalog number and catalog description of each item.
- B. Hardware Schedule: After approval of the preliminary data, submit a hardware schedule listing each hardware set and respective doors and hardware. This schedule shall be approved before any hardware is fabricated.

- C. Samples: If requested, submit representative samples of the specified hardware. Samples shall show the materials and finish proposed for use.

1.04 PACKING AND MARKING

- A. Pack screws, bolts, and fastenings necessary for hardware installation, as well as installation instructions, in the same package with the hardware. Mark each package legibly and label to indicate the part of the work for which it is intended. Each marking shall correspond to the number shown on the approved hardware schedule. Mark each packed lockset with the door designation and other identifying information required for proper installation.
- B. Deliver hardware required for shop application to the factories of the respective manufacturers in time not to impede the progress of the work.

PART 2 PRODUCTS

2.01 MATERIALS

- A. Locksets and Latchsets:
 - 1. Manufacturers of lock/latch sets including cylinders shall be Best, Schlage, Corbin Russwin or equal. All to have lever handles.
- B. Hinges: Full mortised, five-knuckle, template flush ball-bearing design stainless steel, or as otherwise specified, as manufactured by Ives, Stanley, Hager, McKinney or equal.
- C. Door Stops: Wall-mounted or floor-mounted as required by the adjacent construction. Provide wall or floor stop as needed.
 - 1. Wall-mounted Stops: Approximately 1 $\frac{3}{4}$ " in diameter and projecting one inch from wall, concealed fasteners, rubber concave bumper to strike knob of button-type lock without engaging lock mechanism by H.B. Ives. Acceptable substitutes include Rockwood, Trimco or equal. Provide blocking in wall framing in areas to receive wall-mounted stops.
 - 2. Floor-mounted Stops: Half-dome design with rubber bumper by H.B. Ives. Acceptable substitutes include Rockwood, Trimco or equal. Matching risers of thickness required shall be provided for carpeted floors.
- D. Magnetic Catch: Heavy Duty Self Aligning Dual Double Pole Magnetic Catch 3 1/8" x 1" x 3/16" manufactured by Ives or equal.
- E. Door Silencer: Furnish for hollow metal frames, 3 per single door, 2 per door for each pair of doors by Ives or equal.

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- F. Handles for Kitchen Cabinets: U-shaped that meet UFAS and ADA accessibility standards.

2.02 HARDWARE SCHEDULE

- A. Provide the following hardware according to the sets indicated on the Door Schedule:

Set #1				
3	EA	HINGES	FBB 191 4 ½ x 4 ½ 626	STN
1	EA	LOCKSET-PRIVACY	93K7L14C 626	BEST
1	EA	DOOR STOP	AS REQUIRED	IVE
3	EA	DOOR SILENCERS	#20	IVE

Set #2				
6	EA	HINGES	FBB 191 4 ½ x 4 ½ 626	STN
2	EA	LATCHSET	9K1DT DUMMY	BEST
2	EA	DOOR STOP	AS REQUIRED	IVE
6	EA	DOOR SILENCERS	#20	IVE
2	EA	MAGNETIC CATCH	#326A92	IVE

PART 3 EXECUTION

3.01 APPLICATION

- A. Locate hardware on doors in accordance with NBHA Standard "Recommended Locations for Builders' Hardware for Standard Steel Doors and Frames." When approved, slight variations in locations or dimensions will be permitted.
- B. Provide and install wall stop or floor stop at all doors.

END OF SECTION

SECTION 09260

GYPSUM AND CEMENT BOARD ASSEMBLIES

PART 1 GENERAL

1.01 SUMMARY

- A. This Section includes the following:
 - 1. Interior gypsum wallboard.
 - 2. Cement backer board
 - 3. Non-load-bearing steel framing.
- B. Related Sections:
 - 1. Section 09110 Tile

1.02 QUALITY ASSURANCE

- A. Fire-Test-Response Characteristics: For gypsum board assemblies with fire-resistance ratings, provide materials and construction identical to those tested in assembly indicated according to ASTM E 119 by an independent testing and inspecting agency acceptable to authorities having jurisdiction.

PART 2 PRODUCTS

2.01 PANEL PRODUCTS

- A. Panel Size, General: Provide in maximum lengths and widths available that will minimize joints in each area and correspond with support system indicated.
- B. Gypsum Wallboard: ASTM C 36.
 - 1. Regular Type: ½ inch thickness or as indicated and with long edges tapered.
- C. Water-Resistant Gypsum Backing Board: ASTM C 630/C 630M, with core type and in thickness indicated.
- D. Cement Backer Board:

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- a. Aggregated portland cement board with woven glass fiber mesh facing complying with ANSI A118.9
- b. Thickness: ½ inch or as indicated
- c. Acceptable product and manufacturer: Durock Cement Board by USG or equal.

2.02 STEEL FRAMING

- A. Steel Framing, General: Comply with ASTM C 754 for conditions indicated.
 - 1. Steel Sheet Components: Metal complying with ASTM C 645 requirements.
 - a. Protective Coating:
 - 1) Interior Applications: manufacturer's standard corrosion-resistant zinc coating.
- B. Partition Framing:
 - 1. Steel Studs and Runners: ASTM C 645, in size indicated.
 - a. Metal Studs, Runners, and Rigid Furring Channels: Hot-dipped galvanized.
 - b. Runners, and furring channels: 1½", 3 1/2" x 20 gauge at 24" o/c.
 - c. Metal studs: 3 ½" x 20 gauge at 16" o/c with double studs at door openings.
 - d. Resilient channel: ¾" at 24" o/c.
 - 2. Cold-Rolled Channel Bridging: 0.0538-inch bare steel thickness, with minimum 1/2-inch- wide flange, and in depth indicated.
 - a. Clip Angle: 1-1/2 by 1-1/2 inch, 0.068-inch- thick, galvanized steel.
 - 3. Cold-Rolled Furring Channels: 20 gauge bare steel thickness, with minimum 1/2-inch- wide flange.
 - 4. Fasteners for Metal Framing: Of type, material, size, corrosion resistance, holding power, and other properties required to fasten steel members to substrates.

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2.03 TRIM ACCESSORIES

- A. Interior Trim: ASTM C 1047.
 - 1. Cornerbead: Use at outside corners, unless otherwise indicated.
 - 2. LC-Bead: Use at exposed panel edges.
 - 3. L-Bead: Outside edge of panel.
 - 4. U-Bead: Outside edge of panel.

2.04 JOINT TREATMENT MATERIALS

- A. General: Comply with ASTM C 475.
- B. Joint Tape:
 - 1. Interior Gypsum Wallboard: Paper.
 - 2. Water Resistant Panels: As recommended by panel manufacturer.
- C. Joint Compound for Interior Gypsum Wallboard: For each coat use formulation that is compatible with other compounds applied on previous or for successive coats.
 - 1. Prefilling: At open joints and damaged surface areas, use setting-type taping compound.
 - 2. Embedding and First Coat: For embedding tape and first coat on joints, flanges of trim accessories, and fasteners, use drying-type, all-purpose compound.
 - 3. Fill Coat: For second coat, use drying-type, all-purpose compound.
 - 4. Finish Coat: For third coat, use drying-type, all-purpose compound.
- D. Joint Compound for Water Resistant Backing Board:
 - 1. Water-Resistant Gypsum Backing Board: Use setting-type taping and setting-type, sandable topping compounds.

2.05 AUXILIARY MATERIALS

- A. General: Provide auxiliary materials that comply with referenced installation standards and manufacturer's written recommendations.

1. Laminating Adhesive: Use adhesives that have a VOC content of 50 g/L or less when calculated according to 40 CFR 59, Subpart D (EPA Method 24).
- B. Steel Drill Screws: ASTM C 1002, unless otherwise indicated.
 1. Use screws complying with ASTM C 954 for fastening panels to steel members from 0.033 to 0.112 inch thick.

2.06 CEILING FINISH

- A. Bonding Agent: Weldcrete or equivalent.
- B. Finish: Norfolk veneer plaster with light sponge finish. Apply sufficient plaster to hide defects and holes in concrete ceiling slab.

PART 3 EXECUTION

3.01 PANEL PRODUCT INSTALLATION

- A. Gypsum Board: Comply with ASTM C 840 and GA-216.
 1. Space screws a maximum of 12 inches o.c. for vertical applications.
 2. On ceilings, apply gypsum panels before wall/partition board application to the greatest extent possible and at right angles to framing, unless otherwise indicated.
 3. On partitions/walls, apply gypsum panels horizontally (perpendicular to framing), unless otherwise indicated or required by fire-resistance-rated assembly, and minimize end joints.
 - a. Stagger abutting end joints not less than one framing member in alternate courses of board.
 - b. At stairwells and other high walls, install panels horizontally, unless otherwise indicated or required by fire-resistance-rated assembly.
 4. On Z-furring members, apply gypsum panels vertically (parallel to framing) with no end joints. Locate edge joints over furring members.
 5. Single-Layer Fastening Methods: Apply gypsum panels to supports with steel drill screws.
 6. Multilayer Fastening Methods: Fasten base layers with screws; fasten face layers with adhesive and supplementary fasteners.

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7. Laminating to Substrate: Comply with gypsum board manufacturer's written recommendations and temporarily brace or fasten gypsum panels until fastening adhesive has set.

B. Water Resistant Panels:

1. Water-Resistant Backing Board: Install with 1/4-inch gap where panels abut other construction or penetrations.

3.02 NON-LOAD-BEARING STEEL FRAMING INSTALLATION

A. General: Comply with ASTM C 754, and ASTM C 840 requirements that apply to framing installation.

B. Partition Framing:

1. Steel framing shall be attached to concrete floor or ceiling slabs using tapcons or similar type fasteners. Power actuated fasteners shall not be used.
2. Where studs are installed directly against exterior walls, install isolation strip between studs and wall.
3. Extend partition framing full height to structural supports or substrates above suspended ceilings, for fire rated walls. At other locations, extend partitions to terminate at 4 inches above suspended ceilings. Continue framing over frames for doors and openings and frame around ducts penetrating partitions above ceiling to provide support for gypsum board.
4. Frame door openings to comply with GA-600 and with gypsum board manufacturer's applicable written recommendations, unless otherwise indicated. Screw vertical studs at jambs to jamb anchor clips on door frames; install runner track section (for cripple studs) at head and secure to jamb studs.
 - a. Install two studs at each jamb, unless otherwise indicated.
 - b. Extend jamb studs through suspended ceilings and attach to underside of floor or roof structure above.
5. Frame openings other than door openings the same as required for door openings, unless otherwise indicated. Install framing below sills of openings to match framing required above door heads.
6. Install studs at 16 inches O.C., unless otherwise noted.
7. Gypsum Wall Installation, Interior:

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- a. Apply wallboard with tapered edges parallel to metal hat channels or studs. Wall board shall be single (and double) layer screw-applied in accordance with the referenced handbook. Attach leading edge of each board to the open or unsupported edge of a steel stud flange. Board application shall advance in the direction opposite to flange direction.
- b. Provide corner reinforcement at all external corners. Provide metal trim at all ceiling-height partition intersections, and at all intersections with dissimilar materials.
- c. Where door frames are installed into the wallboard system, apply spot grout at jamb anchor clips. Just before installing wallboard into the frame, apply grout into frame in accordance with the referenced handbook.

3.03 FINISHING

- A. Installing Trim Accessories: For trim with back flanges intended for fasteners, attach to framing with same fasteners used for panels. Otherwise, attach trim according to manufacturer's written instructions.
- B. Finishing Gypsum Board Panels: Treat gypsum board joints, interior angles, edge trim, control joints, penetrations, fastener heads, surface defects, and elsewhere as required to prepare gypsum board surfaces for decoration.
 1. Prefill open joints and damaged surface areas.
 2. Apply joint tape over gypsum board joints, except those with trim having flanges not intended for tape.
 3. Water-Resistant Backing Panels: Finish according to manufacturer's written instructions.
 4. Finishing of wallboard concealed above the ceiling plane shall be limited to taping joints and application of joint compound.
 5. Joint compound over all joints and corners shall be feathered to at least 18" on each side of butt joints and 7" on each side of tapered joints from centerline of joint or corner.
 6. Finishing of drywall shall be done under a minimum of 50 footcandles of light.
 7. Touch-up finishing of wallboard shall be accomplished after initial prime coat.

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END OF SECTION

SECTION 09310

TILE

PART 1 GENERAL

1.01 DESCRIPTION

- A. Work included: Provide tile where shown on the Drawings, as specified herein, and as needed for a complete and proper installation.
- B. Related work:
 - 1. Documents affecting work of this Section include, but are not necessarily limited to, General Conditions, Supplementary Conditions, and Sections in Division 1 of these Specifications.

1.02 QUALITY ASSURANCE

- A. Use adequate numbers of skilled workmen who are thoroughly trained and experienced in the necessary crafts and who are completely familiar with the specified requirements and the methods needed for proper performance of the work of this Section.
- B. Provide manufacturer's Master Grade Certificate stating type and location of each tile material in this Section.

1.03 SUBMITTALS

- A. Comply with pertinent provisions of the specifications.
- B. Product data:
 - 1. Materials list of items proposed to be provided under this Section;
 - 2. Manufacturer's specifications and other data needed to prove compliance with the specified requirements;
 - 3. Samples of each type, class, and color of tile required, not less than 12" square, mounted on plywood or hardboard backing, and grouted as specified.
- C. Except when specifically exempted by the Architect, submit Master Grade Certificates for each shipment of tile before arrival of the shipment at the job site.

1.04 PRODUCT HANDLING

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- A. Deliver materials in their original, unopened packages and store in an enclosed shelter providing protection from damage and exposure to the elements. Remove damaged or deteriorated materials from the premises.

PART 2 PRODUCTS

2.01 TILE

- A. Provide tile and accessories complying with Tile Council of America Specification 137.1, in colors and patterns selected by the Owner from standard colors and patterns of the approved manufacturers.
- B. Manufacturer: All tiles shall be manufactured by American Olean, Dal-Tile, US Tile or equal.
- C. Wall tile semi-gloss ceramic White colored 6" x 6".
- D. Provide standard accessory shapes as required.

2.02 SETTING MATERIALS

- A. Comply with pertinent recommendations contained in the Tile Council of America "Handbook for Ceramic Tile Installation."
- B. Installation with thin set mortar over cement backer board.
- C. Grouting - Material shall be manufactured pre-mixed grout made especially for use with porcelain tile. UPCO Hydromet, Cambridge Tile manufacturing Company, L and M Tile Products, Inc., or equal will be acceptable manufacturers.
- D. Sealant - Use a single component sealant non-sag.

PART 3 EXECUTION

3.01 SURFACE CONDITIONS

- A. Examine the areas and conditions under which work of this Section will be performed. Correct conditions detrimental to timely and proper completion of the Work. Do not proceed until unsatisfactory conditions are corrected.

3.02 LAYOUT

- A. Determine locations of all movement joints before starting tile work.
- B. Layout all tile work to minimize cuts less than one-half tile in size.
- C. Locate tile cuts in both walls and floors to be least conspicuous.

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- D. Lay tile in grid pattern unless otherwise indicated on the Drawings or directed by the Architect.
- E. Layout tile wainscots to next full tile beyond dimensions shown.
- F. Align joints to give straight uniform grout lines.
- G. Align joints when adjoining tiles on floor, base, trim and walls are the same size.
- H. Layout tile work, and center the tile fields both directions in each space or on each wall area.

3.03 INSTALLATION

- A. Tile Setting – Set tile in thin set mortar as required with ANSI Standard Specifications for Ceramic Tile Installed with Water-Resistant Organic Adhesives A108.4-1968.
- B. Grouting - Fill all joints in tile with grouting cement and cure in accordance with ANSI Standard Specification A108.4-1969.
- C. Limits of tile:
 - 1. Extend tile into recesses and under equipment and fixtures to form a complete covering without interruptions.
 - 2. Terminate tile neatly at obstructions, edges, and corners without disruption of pattern or joint alignment.
- D. Cleaning:
 - 1. Upon completion of placing and grouting, clean the work of this Section in accordance with recommendations of the manufacturers of the materials used.
 - 2. Protect metal surfaces, cast iron, and vitreous items from effects of acid cleaning.
 - 3. Flush surfaces with clean water before and after cleaning.
- E. Provide tile surfaces clean and free from cracked, broken, chipped, unbonded, and otherwise defective units.
- F. Provide required protection of tile surfaces to prevent damage and wear before acceptance of the Work by the Owner.

END OF SECTION

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SECTION 09650
RESILIENT FLOORING

PART 1 GENERAL

1.01 SUMMARY

- A. This Section includes the following in locations as indicated in the finish schedule and on details:
 - 1. Vinyl composition tile (VCT).
 - 2. Wall base - Where base is listed for an area, include applying base to cabinet work, casework, and equipment items in that area, unless otherwise noted.
- B. Related Sections:
 - 1. Section 09310 Tile.

1.02 SUBMITTALS

- A. Product Data: Submit manufacturer's product data for each product indicated.
- B. Samples: For each type of product indicated, submit manufacturer's standard size samples, of each product, color, texture, and pattern required.

1.03 EXTRA MATERIALS

- A. Furnish to the Owner full size units equal to a minimum of 2 percent of quantity of resilient flooring and base installed as extra materials. Package materials with protective covering for storage and identified with labels describing contents.

PART 2 PRODUCTS

2.01 PRODUCT DELIVERY AND STORAGE

- A. Deliver tile to the site in the manufacturer's unopened, labeled container.
- B. Vinyl Composition Tile: 12" by 12" in size, 1/8" thick, Armstrong Standard Excellon, Tarkett, Mannington or equal.
- C. Rubber Base: Supply in 120-foot rolls, 1/8" thick, 4" high, cove, top mounted, with preformed external and internal corners. Cove shall be not less than 1/2" in depth. Roppe Corporation, Burke Flooring, RCA Rubber Company or equal.

- D. Vinyl Reducers: Tapered, solid vinyl strips in thickness required for tile.
- E. Accessories: Primer, cement, and adhesive of the type recommended by the manufacturer of the flooring, waterproof type unless otherwise recommended in specific cases by the manufacturer of the flooring.

PART 3 EXECUTION

3.01 INSTALLATION

- A. Preparation of Subfloor: Surfaces to receive flooring shall be free from moisture, paint, oil, and wax. Overlay cracks, rough areas, and other surface defects with underlayment.
- B. Comply with the recommendations of the manufacturer of the flooring.
- C. Store materials at a minimum temperature of 75° F for at least 24 hours before installation. Maintain a temperature of at least 75° F in the spaces where flooring is being installed for at least 48 hours after installation. Provide adequate ventilation.
- D. Make changes in color in adjoining rooms at the stop side of the door, or, in the absence of a door, in the center of the partition. End tile work in similar locations. Where tile work stops and the finished surface of the tile is above the finished surface of the adjoining floor, finish the tile work with a vinyl reducer. Where the tile work adjoins a different flooring material at the same finished surface level, the joint shall be made with a marble threshold.
- E. Secure base to the walls and other vertical surfaces with all joints tight, and with top and bottom edges in firm contact with the walls and other vertical surfaces throughout its entire length. Apply coved base as noted on the Finish Schedule.

3.02 CLEANING AND WAXING

- A. Thoroughly clean the works of adhesive, cement, dirt, and other soiling, use a neutral cleaner as recommended by the manufacturer of the flooring. Apply two coats of an approved water-emulsion tile wax to the flooring and buff well. At completion, protect the floors by covering with building paper or by keeping traffic off the area until the building is ready for occupancy.

END OF SECTION

SECTION 09900

PAINTING

PART 1 - GENERAL

1.01 SUMMARY

- A. This Section includes surface preparation, painting, and finishing of walls, ceilings, trim, and doors.
- B. Painting is not required on pre-finished items, finished metal surfaces, concealed surfaces, operating parts, and labels.
 - 1. Labels: Do not paint over Underwriters Laboratories, Factory Mutual or other code-required labels or equipment name, identification, performance rating, or nomenclature plates.
 - 2. Do not paint over hardware, including door hinges, door bumpers, locksets, receptacle and switch covers, etc., unless specified.

1.02 SUBMITTALS

- A. Submit in accordance with the procedures set forth in Section 01300 "Submittals."
- B. Product data for primers and polyurethane.
 - 1. Provide the manufacturer's technical information including label analysis and instructions for handling, storage, and application of each material proposed for use.
 - 2. List each material and cross-reference the specific coating, finish system, and application. Identify each material by the manufacturer's catalog number and general classification.

1.03 DELIVERY, STORAGE, AND HANDLING

- A. Deliver materials to the job site in the manufacturer's original, unopened packages and containers bearing manufacturer's name and label, and the following information:
 - 1. Product name or title of material.

2. Product description (generic classification or binder type).
 3. Manufacturer's stock number and date of manufacture.
 4. Contents by volume, for pigment and vehicle constituents.
 5. Thinning instructions.
 6. Application instructions.
 7. Color name and number.
 8. VOC content.
- B. Store materials not in use in tightly covered containers in a well-ventilated area at a minimum ambient temperature of 45 deg F (7 deg C). Maintain containers used in storage in a clean condition, free of foreign materials and residue.
1. Keep storage area neat and orderly. Take necessary measures to ensure that workers and work areas are protected from fire and health hazards resulting from handling, mixing, and application.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

- A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated in the Work include, but are not limited to, the following or equivalent:
1. Glidden Paints.
 2. PPG Industries, Pittsburgh Paints.
 3. The Sherwin-Williams Company.
 4. Equivalent of above manufacturers.

2.02 PAINT MATERIALS, GENERAL

- A. Material Compatibility: Provide primers that are compatible with one another and the substrates indicated under conditions of service and application, as demonstrated by the manufacturer based on testing and field experience.

B. Material Quality: Provide the manufacturer's best professional grade of paint material of the various coating types specified. Paint material containers not displaying manufacturer's product identification will not be acceptable.

1. Proprietary Names: Use of manufacturer's proprietary product names to designate colors or materials is not intended to imply that products named are required to be used to the exclusion of equivalent products of other manufacturers. Furnish the manufacturer's material data and certificates of performance for proposed substitutions.

PART 3 - EXECUTION

3.01 EXAMINATION

A. Examine substrates and conditions under which painting will be performed for compliance with paint application requirements. Surfaces receiving paint must be thoroughly dry before paint is applied. Bring to Owner's attention damage to walls, ceilings, trim, and doors that will require repair prior to painting.

1. Do not begin to apply paint until unsatisfactory conditions have been corrected.
2. Start of painting will be construed as the Applicator's acceptance of surfaces and conditions within a particular area.

B. Coordination of Work: Review other Sections in which primers are provided to ensure compatibility of the total system for various substrates. On request, furnish information on characteristics of finish materials to ensure use of compatible primers.

1. Notify Owner about anticipated problems using the materials specified over substrates primed by others.

3.02 PREPARATION

A. General: Remove hardware and hardware accessories, electrical devices and covers, lighting fixtures, and similar items already installed that are not to be painted, or provide surface-applied protection prior to surface preparation and painting. Remove these items, if necessary, to completely paint the items and adjacent surfaces. Following completion of painting operations in each space or area, have items reinstalled by workers skilled in the trades involved.

B. Cleaning: Before applying paint or other surface treatments, clean the substrates of substances that could impair the bond of the various coatings. Remove oil and grease prior to cleaning. Schedule cleaning and painting so dust and other

contaminants from the cleaning process will not fall on wet, newly painted surfaces.

C. Surface Preparation: Clean and prepare surfaces to be painted according to the manufacturer's instructions for each particular substrate condition and as specified.

1. Wood Doors: Clean surfaces of dirt, smudges, and marks from surfaces, using very fine grit sandpaper, as required.

2. Walls and Ceilings:

a. Clean all dust from drywall repairs prior to applying primer/sealer to repairs. After primer has dried, repair all visible imperfections in repairs, sand, clean, and reapply primer.

b. Clean all dust, dirt, grease, marks, stains, roach droppings or bait, etc. from wall and ceiling surfaces. Apply primer/sealer to all marks, stains, and grease that remains after cleaning.

3. Metal Door Frames: Clean all dust, dirt, smudges, etc. from frames. Remove all rust by sanding with very fine grit sandpaper. Apply metal primer to all rust and defects in primer prior to applying two (2) coats of paint.

D. Materials Preparation: Carefully mix and prepare paint materials according to manufacturer's directions.

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

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

3. Use only thinners approved by the paint manufacturer and only within recommended limits.

3.03 APPLICATION

A. General: Apply paint according to manufacturer's directions. Use applicators and techniques best suited for substrate and type of material being applied.

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

4. Apply two (2) coats of paint to walls and ceilings. The number of coats and the film thickness required are the same regardless of the application method. Do not apply succeeding coats until the previous coat has cured as recommended by the manufacturer.
 5. Apply additional coats if 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 ensure that surfaces, including edges, corners, crevices receive a dry film thickness equivalent to that of flat surfaces.
 6. Paint surfaces behind toilets and lavatories the same as similar exposed surfaces. Before the final installation of equipment, paint surfaces behind permanently fixed equipment the same as similar exposed surfaces.
- C. Scheduling Painting: Apply first coat to surfaces that have been cleaned, pretreated, or otherwise prepared for painting as soon as practicable after preparation and before subsequent surface deterioration.
1. Allow sufficient time between successive coats 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 where application of another coat of paint does not cause the undercoat to lift or lose adhesion.
- D. Application Procedures: Apply paints and coatings by brush or roller according to the manufacturer's directions.
1. Brushes: Use brushes best suited for the material applied.
 2. Rollers: Use rollers of as recommended by the manufacturer for the material and texture required.
- E. Minimum Coating Thickness: Apply materials no thinner than the manufacturer's recommended spreading rate. Provide the total dry film thickness of the entire system as recommended by the manufacturer.
- F. Prime Coats: Before applying finish coats, apply a prime coat of material, as recommended by the manufacturer, to material that is required to be painted or finished and that has not been prime-coated by others. Recoat primed and sealed surfaces where evidence of suction spots or unsealed areas in first coat appears, to ensure a finish coat with no burn-through or other defects due to insufficient sealing.
- G. Polyurethane: Apply two (2) coats of polyurethane. Lightly sand between coats with 200 grit or finer sandpaper to smooth any raised grain or roughness. Apply polyurethane to top and bottom edges of door slabs to seal.

3.04 CLEANING

- A. Cleanup: At the end of each workday, remove empty cans, rags, rubbish, and other discarded paint materials from the site.
 - 1. After completing painting, clean paint from all surfaces not scheduled to receive paint. Remove spattered paint by washing and scraping. Be careful not to scratch or damage adjacent finished surfaces.

3.05 PROTECTION

- A. Protect work of other trades, whether being painted or not, against damage by painting. Correct damage by cleaning, repairing or replacing, and repainting, as acceptable to Owner.
- B. Provide "Wet Paint" signs to protect newly painted finishes. Remove temporary protective wrappings provided by others to protect their work after completing painting operations.
 - 1. At completion of construction activities of other trades, touch up and restore damaged or defaced painted surfaces.

3.06 PAINT SCHEDULE

- A. General: Provide the following paint systems for the various substrates indicated.
- B. Primers:
 - 1. Primer/sealer: Contractor provided. Primer shall be Glidden Gripper Interior/Exterior Primer Sealer 3210-1200 or equivalent.
 - 2. Metal Primer: Contractor provided. Metal primer shall be Devco Coatings Devguard 4141 Alkyd or equivalent.
- C. Paint: RRHA provided paint. Walls, ceilings, and door frames:
- D. Polyurethane: Contractor provided. Polyurethane shall be Wood Pride Polyurethane Gloss Varnish Finish or equivalent.

- END OF SECTION -

SECTION 10800
TOILET ROOM ACCESSORIES

PART 1 GENERAL

1.01 SUMMARY

A. This section includes the following:

1. Toilet Paper Dispenser.
2. Towel Bar.
3. Shower Curtain Rod.
4. Medicine Cabinet.
5. Grab Bars.
6. Folding Bathtub Seat.

1.02 SUBMITTALS

- A. Catalog Data: Include manufacturer's name, model number, size, mounting details, and finishes, for each accessory, whether the manufacturer is named hereinafter or not. In addition, include construction details, methods of joining and jointing, thickness and type of material, and other pertinent information for each accessory made by a manufacturer not named hereinafter.
- B. Schedule: Submit a schedule of accessories and their locations using room designations on drawings.

1.03 PRODUCT DELIVERY AND HANDLING

- A. Deliver accessories in the manufacturer's original, unopened protective packaging, complete with required fastening and miscellaneous devices.
- B. Maintain protective covering on units until installation is complete and remove during final clean up of the installation.

PART 2 PRODUCTS

2.01 BASIS-OF-DESIGN PRODUCT:

- A. The design for accessories is based on products indicated. Subject to compliance with requirements, provide the named product or a comparable product by one of the following or equal:

1. Bobrick Washroom Equipment, Inc.
2. Bradley Corporation.
3. A & J Washroom Accessories, Inc.
4. American Specialties, Inc.

2.02 TOILET PAPER DISPENSER

- A. Basis-of-Design Product: Bobrick B-7685 or equal.
- B. Description: Single-roll dispenser.
- C. Mounting: Surface mounted.
- D. Operation: Noncontrol delivery with standard spindle.
- E. Capacity: Designed for maximum 5-1/2 inch diameter tissue rolls.
- F. Material and Finish: Type 304 stainless steel flanges, support arms, and concealed wall plates. Chrome plated plastic spindle.

2.03 TOWEL BAR

- A. Basis-of-Design Product: Bobrick B-673x18, B-673x24 or equal.
- B. Description: 3/4-inch square tube with rectangular end brackets.
- C. Mounting: Flanges with concealed fasteners.
- D. Length: 18 and 24 inches.
- E. Material and Finish: Bright-polished stainless steel.

2.04 SHOWER CURTAIN ROD

- A. Basis-of-Design Product: Bobrick B-6047x60 Heavy Duty or equal.
- B. Outside Diameter: 1 1/4 inch.
- C. Length: 60 inches.
- D. Mounting: Flanges with concealed fasteners.

- E. Rod Material and Finish: 18 gauge type 304 stainless steel, No. 4 finish satin.
- F. Flange Material and Finish: 18 gauge type 304 stainless steel, No. 4 finish satin.

2.05 MEDICINE CABINET

- A. Basis-of-Design Product: Bobrick B-299 or equal.
- B. Description: Type 304 stainless steel, satin finish with four adjustable stainless steel shelves.
- C. Mounting: Surface mounted.
- D. Mirror: No. 1 quality, 1/4" (6mm) glass electrolytically copper-plated. 15-year guarantee against silver spoilage.
- E. Door: Full-length stainless steel piano-hinge, magnetic catch and cable doorstop. Door is 14 1/8" W, 20 1/4" H (360 x 515mm). Unit 3 3/4" (95mm) deep.

2.06 GRAB BARS

- A. Grab Bars: Construct of 18-gauge Type 304 stainless steel with nonslip gripping surface and satin finish on the remainder of the bar. Grab bars shall have an outside diameter of 1 1/2" and shall have concealed fasteners. Swage ends and continuously welded to 11-gauge flanges. Provide concealed mounting plates or backing not lighter than 13-gauge to sustain a 250-pound dead load at any point for five minutes without permanent damage to grab bars or wall. Grab bars shall be as noted on the drawings.

2.07 FOLDING BATHTUB SEAT

- A. Folding Tub Seat / Transfer Bench: ADA compliant wall mounted, ivory-phenolic slats top, 16 inch x 30 inch to fit 30 inch bathtub, heavy duty durable rust proof, type 304 stainless steel frame to support up to 400 pounds, by Adaptive Access, Adaptive Access, LLC, 19303 Cypress Arbor Ct., Katy, Texas 77449, 281.856.9332 or equal.

PART 3 EXECUTION

3.01 INSTALLATION

- A. Install accessories according to manufacturers' written instructions, using fasteners appropriate to substrate indicated and recommended by unit manufacturer. Install unit's level, plumb, and firmly anchored in locations and at heights as indicated by drawings. Provide blocking as required for mounting.

3.02 CLEANING

Section 504 Modifications for Apartment 601, Melrose Towers, AMP 206

- A. Upon completion of installation, clean accessories; remove labels, stickers, protective paper, etc.; and leave all items in perfect condition as approved.

END OF SECTION

SECTION 11452

RESIDENTIAL EQUIPMENT

PART 1 - GENERAL

1.01 SUMMARY

- A. Provide the following residential equipment: electric ranges, dishwashers, range hoods, refrigerator/freezers, and all accessories required for a final hook-up and operation.

1.02 SUBMITTALS

- A. Submit in accordance with procedures set forth in Section 01300 "Submittals."
- B. Product data for each type of product specified.

1.03 QUALITY ASSURANCE

- A. Energy Ratings: provide residential appliances that currently carry labels indicating energy cost analysis (estimated annual operating costs) and efficiency information as required by the Federal Trade Commission.
- B. UL and NEMA Compliance: Provide electrical components required as part of residential appliances that are listed and labeled by UL and comply with applicable NEMA standards.
- C. Provide manufacturer's product information evidencing current Energy Star qualification.

1.04 DELIVERY AND STORAGE

- A. Deliver appliances to the project site in the manufacturer's undamaged protective packaging.
- B. Delay delivery of appliances until utility rough-in is complete and construction in the space to receive appliances is substantially complete and ready for installation.

PART 2 - PRODUCTS

2.01 Product manufacturers.

A. Refrigerator and range hood shall meet current Energy Star qualification standards.

B. Finish: Baked Enamel. Color: White.

C. Provide each of the following schedule appliances:

1. Side-by-side Refrigerator:

- a. Total Capacity: 20 - 23 cubic feet.
- b. Height no greater than 70". Width: no greater than 37-1/2" with doors open.
- c. Manufacturer's information for model quoted shall state that refrigerator meets ADA requirements.
- d. Frost free.
- e. Icemaker: Yes
- f. Interior lighting.
- g. Replaceable door gaskets.
- h. Adjustable leveling system.

2. ADA Compliant Gas Range:

- a. Factory prepared for natural gas fuel.
- b. Freestanding gas range shall be 30" in width with a backguard of 4" in height or greater.
- c. Range shall be prepared for use with natural gas.
- d. Range shall have four (4) conventional burners with each burner rated for 9,000 BTUs or greater. Burners shall be "open" type. A grate shall be provided for each burner.
- e. Range shall have a scratch-resistant enameled cooking surface.
- f. Range shall have electronic ignition.
- g. Range oven shall have a porcelain interior surface. Oven shall be manually cleaned. Oven shall have a standard broiler. A broiler pan and two (2) racks shall be provided. Oven capacity shall be greater than 3.5 cubic feet.
- h. Range shall have timer and clock.
- i. Range shall have glass window in oven door with oven light.
- j. Range shall have broiler or storage drawer.

3. Range hood:

- a. Currently Energy Star qualified, two speed fan, fluorescent lamps, factory-applied baked-on finish, washable filter, air and sound ratings shall be certified by HVI, U. L. listed. Provide fluorescent bulbs of

correct size if not included with range hood. Range hood shall be recirculating.

PART 3 - EXECUTION

3.01 INSTALLATION AND COORDINATION

- A. General: Comply with manufacturer's written instructions and recommendations for complete installation.
- B. Built-In Equipment: Locate and place unit plumb and align with range. Securely anchor units to supporting cabinets with concealed fasteners. Verify that clearances are adequate for proper functioning and rough openings are completely concealed.
- C. Install kitchen range hood housing securely to wall cabinet, in proper alignment with cabinet front, and with duct outlet sealed to provide re-circulation venting.
- D. Coordinate locations of electrical junction boxes so that electrical work is concealed.

3.02 ADJUST AND CLEAN

- A. Test each item of residential equipment to verify operation. Make necessary adjustments.
- B. Before final inspection, clean exposed surfaces with water and a mild soap or detergent not harmful to finishes. Rinse surfaces thoroughly and dry.

- END OF SECTION -

SECTION 12366

SOLID SURFACE MATERIALS

PART 1 - GENERAL

1.01 SUMMARY

- A. This Section includes acrylic solid surface window stools.

1.02 DEFINITIONS

- A. Acrylic solid surface material: Homogeneous sheet material composed of acrylic resins, fire-retardant filler materials, and coloring agents.

1.03 SUBMITTALS

- A. Submit in accordance with procedures set forth in Section 01300 "Submittals."
- B. Provide manufacturer's full range of color and patterns for mid-range product.

1.04 QUALITY ASSURANCE

- A. Fabricator Qualifications: Manufacturer certified solid surface fabricator/installer.
- B. Installer Qualifications: Firm experienced in installation or application of systems similar in complexity to those required for this Project.
 - 1. Licensure and/or acceptance by manufacturer.
- C. Source Limitations: Obtain materials and products from single source having same lot number.

1.05 DELIVERY, STORAGE, AND HANDLING

- A. Deliver fabrications appropriately packaged in protective materials.
- B. Exercise means to provide protection from damage during transportation, delivery, and installation.

1.06 PROJECT CONDITIONS

A. Environmental Conditions: Maintain relative humidity planned for building occupants and an ambient temperature between 65 deg. F and 75 deg. F for 48 hours prior to and during installation. After installation, maintain relative humidity and ambient temperature planned for building residents.

B. Field Measurements: Verify countertop dimensions by field measurements.

1.07 WARRANTY

1. Provide manufacturer's 15-year fully transferable warranty.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated in the Work include, but are not limited to, the following or equivalent:

1. Acrylic solid surface countertops:

a. LG HI-MACS.

b. LUXUStone

c. Samsung Staron.

2.02 SOLID SURFACE MATERIALS

A. Nominal sheet thickness: 0.50 inch.

B. Surface burning characteristics per ASTM E84: Class 1 or A: Flame spread <25, Smoke developed: < 25.

C. Liquid absorption: ISO 45486-2, for ½ inch material thickness: 0.4 percent after 2 hours.

C. Izod Impact: ASTM D256, Method A: 0.3 foot pounds per inch.

D. Tensile Modulus: ASTM D 638 Nominal: 1.2 million pounds per square inch.

E. Thermal Expansion: ASTM D696: 0.000018 inch per inch per degree.

F. Hardness: ASTM D2583: Barcol Impressor – 57.

- G. Stain Resistance: No effect.
- H. Boiling Water Resistance: No effect.
- I. High Temperature Resistance: No effect.
- J. Ball Impact Resistance: Unsupported 8 ounce ball: 125 inches.
- K. Fungus Resistance: Pass.
- L. Bacterial Resistance: Pass.
- M. Pattern and Finish: Per RRHA from manufacturer's full range of patterns and finishes.

2.03 ACCESSORY MATERIALS

- A. Joint Adhesive: manufacturer's standard adhesive to create inconspicuous, non-porous joints, with a chemical bond.
- B. Sealant: Standard mildew resistant, FDA/UL recognized silicone sealant in color matched or clear formulations.

2.05 FABRICATION

- A. Fabrication to be performed by manufacturer certified solid surface fabricator/installer.
- B. Fabricate components in shop to greatest extent practical to size and shape indicated, in accordance with approved shop drawing and manufacturer's published requirements.
- C. Fabrication performed in accordance with manufacturer's solid surface fabrication manual.
- D. Rout and finish component edges to a smooth, uniform finish. Repair or reject defective or inaccurate work to Owner's acceptance.
- E. Finish: Provide satin finish.

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Examine substrates to receive solid surfacing. Identify conditions detrimental to proper or timely installation. Do not proceed with installation until conditions have been corrected.

3.02 PREPARATION

- A. Precondition solid surfacing materials in accordance with manufacturer's printed installation instructions.

3.03 INSTALLATION

- A. Install components level, project installation details, and manufacturer's instructions.
- B. Provide window stools to match existing in dimensions.
- C. Remove excessive adhesive and sealants.

3.04 PROTECTION

- A. Protect surfaces from damage until acceptance or work by Owner. Repair or replace damaged components that cannot be repaired to Owner's satisfaction.
- B. Fabricator/installer shall provide manufacturer's maintenance package, review maintenance procedures, and provide warranty to RRHA staff at Melrose Towers.

- END OF SECTION -

SECTION 12390
KITCHEN CABINETS

PART 1 GENERAL

1.01 SUMMARY

- A. This section includes the following:
 - 1. Kitchen Cabinets
 - 2. Laminate plastic countertops, backsplashes, and side splashes.

1.02 SUBMITTALS

- A. Product Data: Submit data for hardware accessories.
- B. Shop Drawings:
 - 1. Provide three (3) sets of shop drawings and product data for Architect's approval.
- C. Laminate Plastic: Submit chips of colors for Owner's selection.

1.03 QUALITY ASSURANCE

- A. Comply with ANSI A161.1.
- B. Provide "Certified Cabinet" seal, of the National Kitchen Cabinet Association (NKCA), affixed to each unit in a semi-concealed location.
- C. Countertop Standard: ANSI A161.
- D. Comply with ANSI A156.9 as applicable to the work indicated. Provide style and finish of cabinet hardware from manufacturer's standard selection and as approved by Owner.

1.04 FIELD MEASUREMENTS

- A. Verify field measurements prior to fabrication.

PART 2 PRODUCTS

2.01 KITCHEN CABINETS

- A. Wall and Base Cabinets shall be "Coronet" style as manufactured by Armstrong or equal, hardwood species to be rubberwood.
- B. Sizes, Shapes, and Types:
 - 1. Provide the sizes and types of units as indicated, complete with drawers, doors, and full depth shelves.
- C. Base Units:
 - 1. Except as otherwise indicated, nominal 24" depth x height required for 36" height of finished countertop.
 - 2. Universal Design units, nominal 24" depth x height required for 34" height of rim on kitchen sink.
- D. Over-Counter Wall Units:
 - 1. Except as otherwise indicated, nominal 12" depth x height required for top to be 7' above finish floor.
- E. Doors and Drawer Fronts:
 - 1. 3/4" thick.
 - 2. Solid hardwood.
- F. Front Frame:
 - 1. 3/4" thick kiln dried solid hardwood.
 - 2. Mortise and tenon or bore and dowel construction frame joinery reinforced with glue and nail.
 - 3. Stiles 1-1/2" wide.
 - 4. Mulls 3" wide.
 - 5. Rails 1-3/4" wide.
 - 6. Stiles and top and bottom rails dadoed to receive ends, tops and bottoms.
- G. End panels:
 - 1. Minimum 1/2" thick.
 - 2. Hardwood plywood.

3. Ends are inserted into dado in face frame and recessed 3/16" and rabbeted to receive backs.

H. Top/Bottom Panels:

1. Nominal 1/2" thick.
2. Multiply hardwood plywood.
3. Tops and bottoms let into end panels, front rails and hang rails, glued and stapled.
4. Bottoms are supported at rear of base cabinets by nominal 1/2" thick multi-ply hardwood plywood.

I. Rails:

1. Wall Cabinets: Nominal 3/4" x 3" high multi-ply hardwood plywood, running full cabinet length at the top and bottom.
2. Base Cabinets: Nominal 3/4" x 7-1/4" high solid pine at the top. All hang rails are rabbeted to inset in end panels and to receive backs.

J. Back Panel:

1. Nominal 1/4" thick
2. Hardwood plywood.
3. Securely glued and stapled to rabbets in end panels and hang rails.

K. Toe Board:

1. 4" high and recessed 3-3/8".
2. Nominal 3/4" thick.
3. ACQ Pressure treated toe board captured between end panels.

L. Shelves:

1. Nominal 1/2" thick.
2. Multiply hardwood plywood.
3. Full deep with hardwood veneer banded front edge
4. Fixed into dados in end panels on all cabinets.

M. Base Corner Braces:

1. Two 3/4" x 1-1/2" solid hardwood or hardwood plywood corner braces running full depth front to back of cabinet.
2. All braces are glued and pinned at top of cabinet to front frame, rear hanging rails and end panels.

N. Drawers:

1. Front and sides 11/16" thick.
2. Solid pine lumber.
3. Bottom minimum 1/4" thick hardwood plywood.
4. All drawer parts are glued and stapled together.

O. Drawer Guides:

1. High quality epoxy coated steel, extreme grade.
2. Side Mounted Guides, self adjusting in mounting brackets.
3. Built-in stop, self-closing and stay-closed features with 100 pound rated load capacity.
4. Mounting brackets are screwed to solid pine back hanging rails.

P. Hinges: Heavy duty, high quality steel, concealed 6-way adjustable hinge with self-closing feature.

Q. Drawer and Cabinet Pulls: ADA compliant 4" brushed aluminum wire type pull, satin finish.

R. Silencers: Flexible plastic type, typical at all cabinet drawers and doors.

S. Trim: Finish: Honey and Profile: Batten as manufactured by Armstrong for "Coronet" cabinets or equal.

T. Pull Out Organizers:

1. Double Chrome Baskets
2. 5WB Series
3. Slide to match cabinet width.

U. Finish:

Renovations for Apartment 303, Melrose Towers, AMP 206

1. Furniture quality protective finish system on doors, drawer fronts, front frames and veneer end panels consisting of sanding, stain, catalyzed sealer and catalyzed clear top coats.
2. All interior end, top, bottom and back panels are finished plywood with clear sealer and top coat.
3. Finish: Armstrong standard "Honey" or equal.

2.02 LAMINATE PLASTIC COUNTERTOP

- A. High-pressure plastic laminate on ¾" thick particleboard with built-up edges (1½") and integral 4" backsplash 0.050" thick general-purpose plastic laminate, except 0.042" thick wherever post-forming is required. Seamless rolled edge with top-mounted backsplash ease edge.
- B. Back splashes and side wall splashes to be 4", required for all countertops.
- C. Exposed Surfacing Material: High pressure plastic laminate, General Purpose Type (NEMA Standard GP50); except Post-Forming Type (NEMA Standard PF42), where post-forming countertop configuration is indicated, as manufactured by Formica Corp., Wilsonart, Nevamar or equal. Plastic Laminate to be NEMA LD-3, of thickness, type, and grade designation indicated. Color to be selected by the Owner.
- D. Substrate: Particleboard without backer sheet; nominal thickness of countertop 1½".
- E. Finish: Matte.
- F. Provide laminate backsplash for range space. 30" width. Height shall be from countertop height to bottom of cabinet over range space. Laminate shall extend behind range hood.

PART 3 EXECUTION

3.01 INSTALLATION

- A. Install cabinets with no variations in flushness of adjoining surfaces; use concealed shims. Where cabinets abut other finished work, scribe and cut for accurate fit. Provide filler strips, scribe strips, and moldings in finish to match cabinet face.
- B. Install cabinets without distortion so doors and drawers fit openings and are aligned. Complete installation of hardware and accessories as indicated.
- C. Install casework level and plumb to a tolerance of 1/8 inch in 8 feet.

- D. Fasten cabinets to adjacent units and to backing.
- E. Fasten wall cabinets through back, near top and bottom, at ends and not more than 24 inches o.c. with No. 10 wafer-head screws sized for 1-inch penetration into wood framing, blocking, or hanging strips.
- F. Fasten wall cabinets through back, near top and bottom, at ends and not more than 24 inches o.c., with toggle bolts through metal backing behind gypsum board.
- G. Fasten plastic-laminate countertops by screwing through corner blocks of base units into underside of countertop. Form seams using splines to align adjacent surfaces, and secure with glue and concealed clamping devices designed for this purpose.
- H. Fasten solid-surfacing-material countertops by screwing through corner blocks of base units into underside of countertop. Align adjacent surfaces, and form seams to comply with manufacturer's written instructions using adhesive in color to match countertop. Carefully dress joints smooth, remove surface scratches, and clean entire surface.
- I. Adjust cabinets and hardware so doors and drawers are centered in openings and operate smoothly without warp or bind. Lubricate operating hardware as recommended by manufacturer.
- J. Plastic Laminate: Install in accordance with NEMA-LD 3-1975, including Revisions 1, 2, 3, and 4. Self-edge unless indicated or specified otherwise. Use waterproof adhesive in applying laminate to counter tops. Plastic laminate work shall be provided with a backing sheet in accordance with AWI standards.

END OF SECTION