

- 3.2 INSTALLATION
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Use the Reference Wizard's Check Reference feature when you add a RID outside of the Section's Reference Article to automatically place the reference in the Reference Article. Also use the Reference Wizard's Check Reference feature to update the issue dates.

References not used in the text will automatically be deleted from this section of the project specification when you choose to reconcile references in the publish print process.

The publications listed below form a part of this specification to the extent referenced. The publications are referred to within the text by the basic designation only.

AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)

ANSI A208.1	(1993) Wood Particleboard
ANSI B18.6.1	(1981; R 1997) Screw, Wood

ASTM INTERNATIONAL (ASTM)

ASTM A 167	(2004) Standard Specification for Stainless and Heat-Resisting Chromium-Nickel Steel Plate, Sheet, and Strip
ASTM A 325	(2004b) Standard Specification for Structural Bolts, Steel, Heat Treated, 120/105 ksi Minimum Tensile Strength
ASTM A 325M	(2004b) Standard Specification for Structural Steel Bolts, Steel, Heat Treated 830 Mpa Minimum Tensile Strength (Metric)
ASTM A 366/A 366M	(1997e1) Standard Specification for Steel, Sheet, Carbon, Cold-Rolled, Commercial Quality
ASTM C 1036	(2001) Standard Specification for Flat Glass
ASTM D 13	(2002) Spirits of Turpentine
ASTM D 4689	(1999) Standard Specification for Adhesive, Casein-Type
ASTM D 4690	(1999) Standard Specification for Urea Formaldehyde Resin Adhesives
ASTM F 594	(2002) Carbon and Alloy Steel Nuts
ASTM F 836M	(2002) Standard Specification for Style 1 Stainless Steel Metric Nuts

BUILDERS HARDWARE MANUFACTURERS ASSOCIATION (BHMA)

BHMA A156.9 (2001) Cabinet Hardware

INTERNATIONAL CODE COUNCIL (ICC)

ICC IPC (2003) International Plumbing Code

NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA)

NEMA LD 3 (2000) High-Pressure Decorative Laminates

SCIENTIFIC APPARATUS MAKERS ASSOCIATION (SAMA)

SAMA LF6a (1978) Laboratory and Hospital Service
Fittings

U.S. GENERAL SERVICES ADMINISTRATION (GSA)

FS FF-B-588 (Rev D) Bolt, Toggle; and Expansion
Sleeve, Screw

FS FF-S-325 (Int Amd 3) Shield, Expansion; Nail,
Expansion; and Nail, Drive Screw (Devices,
Anchoring, Masonry)

FS MM-L-736 (1983c) Lumber; Hardwood

FS MM-L-751 (Rev H) Lumber; Softwood

FS TT-C-490 (1990; Am 2) Cleaning Methods for Ferrous
Surfaces and Pretreatments for Organic
Coatings

FS TT-C-520 (Rev B; Am 1) Coating Compound,
Bituminous, Solvent Type, Underbody (for
Motor Vehicles)

FS TT-E-489 (Rev J) Enamel, Alkyd, Gloss, Low Voc
Content

FS TT-E-491 (Rev C) Enamel; Gloss, Synthetic (for
Metal and Wood Furniture)

FS TT-F-336 (Rev E) Filler, Wood, Paste

FS TT-V-121 (Rev H) Varnish, Spar, Water-Resisting

FS WW-P-541 (1990e; Am 1) Plumbing Fixtures

1.2 SUBMITTALS

**NOTE: Review Submittal Description (SD) definitions
in Section 01330 SUBMITTAL PROCEDURES and edit the
following list to reflect only the submittals
required for the project. Submittals should be kept
to the minimum required for adequate quality control.**

A "G" following a submittal item indicates that the submittal requires Government approval. Some submittals are already marked with a "G". Only delete an existing "G" if the submittal item is not complex and can be reviewed through the Contractor's Quality Control system. Only add a "G" if the submittal is sufficiently important or complex in context of the project.

For submittals requiring Government approval on Army projects, a code of up to three characters within the submittal tags may be used following the "G" designation to indicate the approving authority. Codes for Army projects using the Resident Management System (RMS) are: "AE" for Architect-Engineer; "DO" for District Office (Engineering Division or other organization in the District Office); "AO" for Area Office; "RO" for Resident Office; and "PO" for Project Office. Codes following the "G" typically are not used for Navy, Air Force, and NASA projects.

Choose the first bracketed item for Navy, Air Force and NASA projects, or choose the second bracketed item for Army projects.

Government approval is required for submittals with a "G" designation; submittals not having a "G" designation are [for Contractor Quality Control approval.] [for information only. When used, a designation following the "G" designation identifies the office that will review the submittal for the Government.] Submit the following in accordance with Section 01330 SUBMITTAL PROCEDURES:

SD-02 Shop Drawings

Fabrication drawings shall be submitted for steel and wood cabinets in accordance with the paragraphs entitled, "[Wood Cabinet] [Particle Board Cabinet] [Steel Cabinet] [Counter Top and Back Splash] Fabrication," of this section.

Installation Drawings shall be submitted for steel and wood cabinets in accordance with the paragraph entitled, "Installation," of this section.

SD-03 Product Data

Manufacturer's catalog data shall be submitted for the following items:

Corrosion-Resistant Steel
Plywood
Hardwood
Glass
Adhesives
Filler Material
Particle Board
Turpentine

Varnish
Fasteners
Steel Sinks
Service Fixtures
Accessories and Hardware
Softwoods
Plastic Laminate

SD-04 Samples

Samples shall include:

Counter Top and Back Splash, one each, 100 millimeter 4 inches in width, submitted as one unit or as separate items.

Accessories and Hardware, one each.

Manufacturer's Standard Color Charts shall be submitted in accordance with paragraph entitled, "General," of this section.

SD-07 Certificates

Certificates shall be submitted for the following items showing conformance with the referenced standards contained in this section.

Corrosion-Resistant Steel
Plywood
Hardwood
Glass
Adhesives
Filler Material
Particle Board
Turpentine
Varnish
Fasteners
Steel Sinks
Service Fixtures
Accessories and Hardware

SD-08 Manufacturer's Instructions

Manufacturer's Instructions shall be submitted for in accordance with paragraph entitled, "General," of this section.

1.3 DELIVERY, STORAGE, AND HANDLING

Cabinets shall be delivered, stored, and handled in a manner that will prevent damage and disfigurement.

Temporary skids shall be provided under units weighing more than [_____] kilogram pounds.

PART 2 PRODUCTS

2.1 GENERAL

Manufacturer's Standard Color Charts shall be submitted for wood and metal cabinets showing the manufacturer's recommended color and finish selections.

Manufacturer's Instructions shall be submitted for wood and metal cabinet systems including special provisions required to install equipment components and system packages. Special notices shall detail impedances, hazards and safety precautions.

Cabinets shall be the manufacturer's standard sizes of type and design indicated. Both wall and base cabinet assemblies shall consist of individual units joined into continuous sections as indicated. Fastenings shall be accomplished to permit removal and replacement of individual units without affecting the remainder of the installation.

2.2 MATERIALS

Steel for cabinet construction shall conform to ASTM A 366/A 366M.

Corrosion-Resistant Steel shall conform to ASTM A 167, Type [302] [304] [316] Finish 4.

Douglas-fir Plywood shall conform to ICC IPC, exterior type, fully waterproof bond.

Glass shall conform to ASTM C 1036, Type I, Class 1, Quality q3, 6 millimeter 1/4 inch thick, for unframed sliding glass doors; other glass shall conform to ASTM C 1036, Type II, Class 1, Quality q8, 5 millimeter 7/32 inch thick.

Adhesives for application of plastic laminate shall be a thermosetting urea-resin Type II conforming to ASTM D 4690 as recommended by the manufacturer of the laminate. Adhesive for wood members shall conform to ASTM D 4689.

Filler Material shall conform to FS TT-F-336.

Hardwood shall conform to FS MM-L-736, standard hardwood lumber, S2S.

Hardwood plywood shall conform to ICC IPC.

Particle Board shall conform to ANSI A208.1, Type 1, Grade M or medium density.

**NOTE: Review NEMA LD 3 and insert style, type,
grade, class, and finish as required.**

Plastic Laminate shall conform to NEMA LD 3, Style [____], Type [____], Grade [____], Class [____], Finish [____].

Softwoods shall conform to FS MM-L-751, factory and shop grade.

Turpentine shall conform to ASTM D 13.

Varnish shall conform to FS TT-V-121.

Accessories and Hardware shall conform to the following requirements, as applicable:

Extension drawer slides: BHMA A156.9, Type B85071

Semiconcealed hinges: BHMA A156.9, Type B81201, 1-1/2 inches
Full surface hinges: BHMA A156.9, Type B81131, 1-1/2 inches
Knob pulls: BHMA A156.9, 1-inch diameter, Type B12132
Bar type pulls: BHMA A156.9, 4-inch overall length, Type B12012
Semiconcealed hinges: BHMA A156.9, Type B81201, 40 millimeter
Full surface hinges: BHMA A156.9, Type B81131, 40 millimeter
Knob pulls: BHMA A156.9, 25 millimeter diameter, Type B12132
Bar type pulls: BHMA A156.9, 100 millimeter overall length, Type B12012
Locks, keying, and keys: As directed
Catches: Magnetic, 22 newton (5-pound) 5-pound pull
Sliding door set:
 Impregnated fiberboard track
 Nylon glides

Fasteners shall conform to the following:

Screws: ANSI B18.6.1, Group, Type and Class as applicable
Anchoring Devices: FS FF-S-325, Group, Type, and Class as applicable
Toggle bolts: FS FF-B-588, Type I, Class A, Style 2
Nuts: ASTM F 594, corrosion-resistant steel
Bolts: ASTM A 325, heavy, hexagon head bolts corrosion-resistant steel
Nuts: ASTM F 836M, corrosion-resistant steel
Bolts: ASTM A 325M, heavy, hexagon head bolts corrosion-resistant steel

 NOTE: Sink for inset-type installation shall be as
 specified in Section 15102S PLUMBING.

Corrosion-resistant Steel Sinks:

[1.3 millimeter 18-gage corrosion-resistant steel, integral with
corrosion-resistant steel countertop]

[1.3 millimeter 18-gage corrosion-resistant steel, nonintegral,
self-rimming]

Drain holes in center of bowl

Underside coated with 3 millimeter 1/8-inch thick sound deadener

Die-form, seamless, raised edges at front and ends

Cove corners to 13 millimeter 1/2-inch radius

Equip with strainers and tail pieces

Sound deadening shall conform to FS TT-C-520.

Service Fixtures shall conform to the following requirements:

Fixtures shall be in accordance with the water conservation policy as stated in the Standard Plumbing Codes, Appendix J.

Faucets: splashback mounted, cast brass, chrome plated, FS WW-P-541

Faucets: deck mounted, cast brass, chrome plated, FS WW-P-541

Gas, air, and vacuum, distilled water, steam, and deionized water
cocks: cast brass, chrome plated, ground key type

Drains, strainers, and taps: brass, chrome plated, FS WW-P-541

Index buttons: plastic, color codes in accordance with SAMA LF6a

Special items: nipples and locknuts with each fixture shall be as directed.

NOTE: Delete any of the following types that are
not applicable.

Type I, zinc phosphate

Type II, iron phosphate

Type III, organic-paint, varnish, lacquer

Metal pretreatment coatings: FS TT-C-490, Type I

Metal pretreatment coatings: FS TT-C-490, Type II

Metal pretreatment coatings: FS TT-C-490, Type III

Enamel: FS TT-E-491, Class 2

2.3 WOOD CABINET FABRICATION

Wall and base cabinets shall be essentially of same construction and same outside appearance. Cabinets shall be constructed with frame fronts and solid ends, or frame construction throughout. Frame members shall be 20 by 40 millimeter 3/4-by 1-1/2-inch kiln-dried hardwood, using mortise and tenon, dovetailed or doweled, and glued together. Top and bottom corners shall be braced with hardwood blocks that are glued with water-resistant glue and nailed in place. Base cabinets shall be provided with an integral toe space at least 65 millimeter 2-1/2 inches deep and 100 millimeter 4 inches high. Drawers shall be mounted on [metal guides] [hardwood guides] [renewable plastic] [fiber guides]. Shelves shall be [fixed] [removable]

[and] [adjustable], as indicated.

Minimum thicknesses of materials for frame-front, solid-end cabinet construction shall be as follows:

Backs and bottoms of base cabinets and tops of wall cabinets: 3 millimeter 1/8-inch tempered hardboard. Bottoms shall be braced with wood members glued in place.

Cabinet ends: 15 millimeter 1/2-inch hardwood-veneer plywood

Doors: 20 millimeter 3/4-inch [hardwood] [softwood] plywood, [solid] [hollow] core doors

Drawer fronts: 20 millimeter 3/4-inch hardwood

Drawer bottoms: 4.76 millimeter 3/16-inch plywood or tempered hardboard. Drawer bottoms over 380 millimeter 1 foot 3 inches wide shall be braced with wood members glued in place.

Drawer sides and backs: 15 millimeter 1/2-inch hardwood

Interior partitions or dividers: 15 millimeter 1/2-inch [fir plywood, Grade A-A] [hardwood]

Shelves: Grade A-B plywood, supported on ends and 600 millimeter 24 inches on centers

Adjustable shelves: 20 millimeter 3/4-inch plywood

Base cabinet shelves: 16 millimeter 5/8-inch plywood

Wall cabinet shelves: [15 millimeter 1/2-inch [plywood] [glued-up solid wood]] [6 millimeter 1/4-inch plywood with a solid-wood frame]

Minimum thicknesses of materials for frame-type cabinet construction shall be as follows:

Cabinet ends: 6 millimeter 1/4-inch hardwood plywood

Backs, bottoms, partitions, and dividers: 4 millimeter 3/16-inch tempered hardboard in a frame

Materials for other components shall be as specified.

2.4 PARTICLE BOARD CABINET FABRICATION

Wall and base cabinets shall be essentially of same construction and covered with plastic laminate as indicated. Cabinets shall be constructed with frame fronts and solid ends throughout. Frame members shall be 20 by 40 millimeter 3/4-by 1-1/2-inch kiln-dried hardwood, using mortise and tenon, dovetailed or doweled, and glued together. Top and bottom corners shall be braced with hardwood blocks that are glued with water-resistant glue and nailed in place. Base cabinets shall be provided with an integral toe space at least 65 millimeter 2-1/2 inches deep and 100 millimeter 4 inches high. Drawers shall be mounted on [metal guides] [hardwood guides] [renewable plastic or fiber guides]. Shelves shall be [fixed] [removable] [and] [adjustable], as indicated.

Minimum thicknesses of materials for cabinet construction shall be as follows:

Backs and bottoms of base cabinets and tops of wall cabinets: 4 millimeter 3/16-inch tempered hardboard. Bottoms shall be braced with wood members glued in place.

Cabinet ends: 20 millimeter 3/4-inch particle board with a plastic laminate covering

Doors: 20 millimeter 3/4-inch particle board laminated on [front surface] [rear surface] [all edges]

Drawer fronts: 20 millimeter 3/4-inch particle board laminated on all edges

Drawer bottoms: 3 millimeter 1/8-inch plywood or tempered hardboard. Drawer bottoms over 380 millimeter 1 foot 3 inches wide shall be braced with wood members glued in place.

Drawer sides and backs: 15 millimeter 1/2-inch particle board

Interior partitions or dividers: 15 millimeter 1/2-inch particle board

Shelves: Supported on ends and 600 millimeter 24 inches on centers

Adjustable shelves: 20 millimeter 3/4-inch particle board

Base cabinet shelves: 16 millimeter 5/8-inch particle board

Wall cabinet shelves: 13 millimeter 1/2-inch particle board

2.5 STEEL CABINET FABRICATION

2.5.1 General

Wall and base cabinets shall be of essentially the same construction, fabricated from cold-rolled furniture steel not lighter than 0.85 millimeter 22-gage, except that backs of cabinets and backs of doors may be 0.70 millimeter 24-gage steel. Wall cabinets shall have corner mullions of full-wrap construction consisting of three 90-degree bends, with no raw edges or flanges exposed. Base cabinets shall be equipped with fixed top rails and shall have an integral subbase forming a recessed toe space 100 millimeter 4 inches high and not less than 65 millimeter 2-1/2-inches deep.

Welds shall be flush and ground smooth on exposed surfaces. Heads of screws and bolts shall not show in exposed exterior surfaces. Doors and drawer fronts shall be double-wall, panel-type construction, not less than 15 millimeter 1/2-inch thick, with a sound-absorbing material cemented between the walls. Doors and drawers shall be equipped with rubber or plastic silencers or bumpers. Drawers shall have removable fronts, shall be mounted on [metal guides] [renewable fiber] [plastic guides] and shall be equipped with position stops to avoid accidental complete withdrawal. Shelving shall be [fixed] [adjustable] as indicated, and shall be formed on four sides with two additional 90-degree bends on front edge.

2.5.2 Workmanship

End panels, top rails, bottoms and vertical posts shall be aligned at intersections in same plane, without overlap.

Exposed welds shall be ground flush and smooth.

2.5.3 Minimum Thickness of Steel

	U.S. STANDARD <u>GAGE</u>	THICKNESS (MILLIMETER)
Hinge reinforcement, tapping strips, gussets, drawer runners	14	1.9
Cabinet top rail, hanging brackets, frame, and base	16	1.6
Outer door pan and slide support, cross rails, cabinet fronts, scribe strips, and fillers	18	1.3
Shelves, other steel items	20	1.0
	U.S. STANDARD <u>GAGE</u>	THICKNESS (INCH)
Hinge reinforcement, tapping strips, gussets, drawer runners	14	0.0747
Cabinet top rail, hanging brackets, frame, and base	16	0.0598
Outer door pan and slide support, cross rails, cabinet fronts, scribe strips, and fillers	18	0.478
Shelves, other steel items	20	0.0359

2.5.4 Cabinets

Cabinets shall have sheet steel fronts, backs, sides, tops, and bottoms.

Sides shall be formed with rabbeted stiles 28 millimeter 1-1/8-inches wide, closed by welded channel containing embossed louvers spaced 40 millimeter 1-1/2 inches on center, for adjustable shelves.

Cabinets shall have a steel channel-shaped top rail, 1.3 millimeter 18-gage steel cross rails, and Z-shaped rear rail to engage 1.6 millimeter 16-gage steel hanging bracket.

At base cabinets, 40 millimeter 1-1/2-inch long leveling screws shall be provided for adjusting to floor variations and shall be accessible through plugged openings in bottom; 1.9 millimeter 14-gage gussets shall be installed to support the screws.

At base cabinets, removable backs, knee space panels, or access doors shall be provided where piping occurs.

2.5.5 Doors

Doors shall be double-pan construction with 16 millimeter 5/8-inch thick telescoped inner pan into outer pan with exposed vertical edge formed into channel shape having returned lip over inner pan and offset to receive lip.

Panels shall be coated with 3 millimeter 1/8-inch thick asphaltic sound deadener.

Reinforcement shall be fastened for hardware attachment to inner pan and shall be concealed.

Hinged doors shall be fitted with pairs of hinges, knob pulls, locks, and bumpers.

Inside edge of cutout in front panel of glass door shall be beveled.

Glass shall be set in continuous rubber gasket between panels.

Sliding doors shall be equipped with tracks, guides, bumpers, and bar pulls.

Doors for the exposed fronts of metal cabinets shall be:

[Plastic-laminate-covered particle board]

[Hardwood plywood]

[Sound-deadened metal]

Doors shall be not less than 15 millimeter 1/2-inch thick.

Plastic laminated doors shall be constructed with particle-board cores and sheets of [melamine] [polyester plastic] laminated under pressure with a water-resistant adhesive; doors shall be edge trimmed and sealed with a matching durable plastic trim molding. Hardware and fastenings for doors with particle-board cores shall be of the through-bolt type.

2.5.6 Drawers

Drawer fronts shall be double-pan construction with 16 millimeter 5/8-inch thick telescoped inner pan into outer pan with exposed vertical edge formed into channel shape having return lip over inner pan and offset to receive lip. Drawer bodies shall be welded to front through flanges on sides and bottom, and to back through flanges at rear.

Flanges shall be extended outward or downward, top of side, and backrolled.

Corners shall be coved to 15 millimeter 1/2-inch radius.

NOTE: Delete locks when not applicable.

**When width of drawer exceeds 610 millimeter 24 inches,
two pulls are required.**

Drawer accessories shall consist of slides, bar pulls, and lock and stop devices.

2.5.7 Shelves

**NOTE: Stainless steel must be specified when
sanitation is critical.**

Shelves shall be fabricated from sheet steel with front and rear edges flanged down 20 millimeter 3/4 inch and hemmed back at 30 degrees to underside of shelf.

Shelves shall be fabricated from corrosion-resistant steel sheet with front and rear edges flanged down 20 millimeter 3/4 inch and hemmed back at 30 degrees to underside of shelf.

Shelves shall be supported with 1.6 millimeter 16-gage shelf clips inserted in slots in front stile and in form channel in back.

Flanges shall be notched at sides to match and engage with embossments on side panels.

2.5.8 Dustcover Tops

Front face height shall be 25 millimeter 1 inch.

Dustcover tops shall be sloped upward 30 degrees from front to back of cabinet.

Dustcover tops shall be equipped for attaching from inside of cabinet.

2.5.9 Finish

Steel cabinets shall be primed and factory-finished with two coats of synthetic enamel, baking quality, conforming to FS TT-E-489, Class B. Colors shall be as selected.

2.6 COUNTER TOP AND BACK SPLASH FABRICATION

Counter tops and back splash shall be constructed of [[plywood] [wood] [particle board] covered with a [shop-applied plastic laminate] [corrosion-resistant steel]] [an integral corrosion-resistant steel top without backing].

Plywood shall be a water-resistant type, Grade B-D Douglas fir plywood, with a minimum thickness of 20 millimeter 3/4 inch. Back splash shall be [plywood] [hardwood] 20 millimeter 3/4-inch thick by the height indicated.

Particle board shall be as specified with a minimum thickness of 20 millimeter 3/4 inch. Edges and opening around sink rim shall be built up with hardwood strips. Back splash shall be of similar construction, a minimum of 20 millimeter 3/4-inch thick by the height indicated.

Steel shall be not lighter than 0.85 millimeter 22-gage corrosion-resistant steel for backed construction and not lighter than 1.3 millimeter 18-gage corrosion-resistant steel for integral construction. Steel tops shall be reinforced on edges and around sink-rim opening. Counters shall be of one-piece construction; where corrosion-resistant sink bowls are provided, joints shall be welded and polished smooth. Joints between sink, counter top, and back splash shall

be made watertight. Back splash shall be of the same material as counter top and shall be formed with square edges. Height shall be as indicated.

Plastic laminate shall be continuous sheet of the longest length practicable and of the design and color selected. Joints in the surface sheeting shall be tight and flush, and held to a practical minimum number.

Edging and trim:

For plastic-laminate-covered counter tops and back splash, the edging and trim shall consist of:

Strips of laminate cut and fitted to exposed edges with contact adhesive

Corrosion-resistant steel molding applied to exposed edges and at the intersection of the top and back splash with a concealed fastening system

For corrosion-resistant steel counter tops and back splash, the edging and trim shall be formed as an integral part of the top.

Sink rims shall be standard products of a manufacturer regularly producing this type of equipment, and shall be fabricated from corrosion-resistant steel of the size necessary to receive the sinks.

Chopping block shall be of the size and in the location indicated. Chopping block shall be:

Portable type, of solid edge-grain clear maple, minimum 20 millimeter 3/4-inch thick, sized to fit on a suitable rack for storage

Stationery type or built-up, edge-grain clear maple, minimum 40 millimeter 1-1/2-inches thick, installed in a counter top

Chopping blocks shall not be mounted in the top rail of base cabinets.

2.7 SURFACING

2.7.1 Laminated Plastic Surfacing

Plastic sheeting shall be laminated to faces and exposed edges of particle board at 138 kilopascal and 85 degrees C 20 pounds per square inch and 185 degrees F.

Backing sheet shall be applied to concealed faces.

2.7.2 Corrosion-Resistant Steel Surfacing

Counters and work surfaces shall be formed of 1.6 millimeter 16-gage sheets with exposed edges returned.

Hat-shaped channels, 1.6 millimeter 16-gage, shall be used for reinforcement, spaced 760 millimeter 30 inches on center.

Surfaces shall be equipped with wood strips under edges for fastening to cabinets.

Internal corners shall be coved to 15 millimeter 1/2-inch radius.

Underside shall be coated with 3 millimeter 1/8-inch thick sound deadener.

Joints shall be electrically welded, ground smooth, and polished to match adjacent finish.

2.8 MISCELLANEOUS CABINETS

NOTE: Delete inapplicable paragraphs, or state appropriate options.

2.8.1 Combination Sink-and-Base Cabinet

A combination sink-and-base cabinet unit may be furnished in lieu of the base cabinet and inset sink indicated provided the combination unit affords facilities and space equal to those indicated and provided the combination unit matches the adjacent units in materials and construction. Sink, with matching drainboards, shall be [corrosion-resistant steel] [porcelain-enamel steel] and shall be equipped with a chromium-plated [swinging-spout faucet, chromium-plated water-control valves,] [automatic faucet] and chromium-plated cup strainer. Joints between sink and drainboard and between drainboard and counter top shall be made watertight.

2.8.2 Special Purpose Cabinets

Special-purpose cabinets, such as cabinets for eye-level oven units, countertop range units, and built-in refrigerators and desks, shall be furnished as indicated and shall be of same materials and construction as adjacent cabinets. Space shall be provided adjacent to sink for a dishwasher, as indicated.

2.9 ACCESSORIES AND HARDWARE

Accessories such as utility shelves and racks for extracts, condiments, and towels; bins for sugar and flour; breadboxes; and trays for cutlery and flatware shall be furnished as indicated.

Hardware shall be corrosion resistant. Exposed hardware shall have a chromium-plated finish or a corrosion-resistant finish as approved. Semiconcealed hinges on cabinets where paint finish is required shall be painted to match the cabinets. Doors shall be equipped with [bullet-type catches] [spring hinges] [magnetic-type catches]. Door and drawer pulls shall be as indicated.

PART 3 EXECUTION

3.1 FIELD FINISHING OF WOOD CABINETS

[For painted finish, a prime coat and two coats of synthetic enamel of air-drying quality, conforming to FS TT-E-489, Class A, shall be applied. Colors shall be as selected.]

[For natural finish, the applicable procedure for the type of wood shall be followed:

For open-grain woods: One coat of paste wood filler shall be applied, and excess filler shall be removed. One coat of pale varnish thinned

with turpentine shall then be applied, followed by one coat of pale varnish and then by one coat of satin-finish varnish, plus an additional coat of satin-finish varnish on cabinet doors and drawer fronts. Surfaces shall be lightly sanded between coats.

For close-grain woods: One coat of pale varnish thinned with turpentine shall be applied, followed by one coat of pale varnish and then by one coat of satin-finish varnish, plus an additional coat of satin-finish varnish on cabinet doors and drawer fronts. Surfaces shall be lightly sanded between coats.]

At the Contractor's option, wood cabinets with a factory finish standard set by the cabinet manufacturer may be provided.

3.2 INSTALLATION

NOTE: Installation of sinks shall be per the requirements of Section 15102S PLUMBING.

Casework shall be installed plumb with countertops level to within 1 millimeter in 3000 millimeter 1/16 inch in 10 feet.

Base cabinets shall be leveled by adjusting leveling screws.

Scribe strips shall be scribed and fitted to irregularities of adjacent surfaces. Gap opening shall not exceed 0.63 millimeter 0.025 inch.

Cases shall be secured permanently to floor and wall construction using 6 millimeter 1/4-inch diameter masonry anchors, spaced 760 millimeter 30 inches maximum on center, minimum of two for each case.

Wall cases shall be supported on continuous 1.3 millimeter 18-gage galvanized steel hanging brackets.

Wall cases shall be secured in position with screws to blocking.

Adjoining cases shall be bolted together. Width of joints shall not exceed 0.79 millimeter 1/32 inch.

Closer strips, filler strips, and finish moldings shall be provided as required.

Doors shall be aligned, hardware adjusted, and surfaces cleaned and waxed.

Installation Drawings shall be submitted for steel and wood cabinets. Drawings shall include location of cabinets, details of cabinets related and dimensional positions, and locations for roughing in plumbing, including sinks, faucets, strainers and cocks.

3.3 CLEANING

On completion of cabinet installation, marred or abraded finished surfaces shall be touched up.

Crating and packing materials shall be removed from premises.

Surfaces shall be wiped down to remove fingerprints and markings and shall

be left in clean condition.

3.4 INSPECTION

Casework grounds and supports shall be examined for adequate anchorage, foreign material, moisture, and unevenness that could prevent quality casework installation.

Ensure that electrical and plumbing rough-ins for casework are complete.

Do not proceed with installation until defects are corrected.

-- End of Section --