SECTION 224216.16 - COMMERCIAL SINKS

Revise this Section by deleting and inserting text to meet Project-specific requirements.

Verify that Section titles referenced in this Section are correct for this Project's Specifications; Section titles may have changed.

1. GENERAL
	* + 1. RELATED DOCUMENTS

Retain or delete this article in all Sections of Project Manual.

* + - * 1. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.
			1. SUMMARY
				1. Section Includes:

Service sinks.

Kitchen/utility sinks.

Handwash sinks.

Sacristy sinks.

Shampoo bowls.

Manually operated sink faucets.

Automatically operated sink faucets.

Supply fittings.

Waste fittings.

Sink supports.

Grout.

* + - * 1. Related Requirements:

Retain subparagraphs below to cross-reference requirements Contractor might expect to find in this Section but are specified in other Sections.

Retain first subparagraph below for projects that include Section 114000 "Foodservice Equipment" and revise "Kitchen/Utility Sinks" and "Handwash Sinks" articles in this Section correspondingly.

Section 114000 "Foodservice Equipment" for NSF-compliant foodservice and handwash sinks.

Section 224100 "Residential Plumbing Fixtures" for residential sinks.

* + - 1. SUBMITTALS
				1. Submittals for this section are subject to the re-evaluation fee identified in Article 4 of the General Conditions.
				2. Manufacturer’s installation instructions shall be provided along with product data.
				3. Submittals shall be provided in the order in which they are specified and tabbed (for combined submittals).
				4. Product Data: For each type of product.

Include construction details, material descriptions, dimensions of individual components and profiles, and finishes for sinks.

Include rated capacities, operating characteristics[**, electrical characteristics,**] and furnished specialties and accessories.

Retain "Coordination Drawings" paragraph below if coordination is required for installation of products and materials by separate installers.

* + - * 1. Coordination Drawings: Counter cutout templates for mounting of counter-mounted sinks.
			1. CLOSEOUT SUBMITTALS
				1. Operation and Maintenance Data: For sinks and faucets to include in operation and maintenance manuals.

Retain subparagraph below if automatic, electronic-sensor faucets are required for Project.

In addition to items specified in Section 017823 "Operation and Maintenance Data," include the following:

Servicing and adjustments for automatic faucets.

* + - 1. MAINTENANCE MATERIAL SUBMITTALS
				1. Furnish extra materials that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.

Faucet Washers and O-Rings: Equal to [**10**] <**Insert number**> percent of amount of each type and size installed.

Faucet Cartridges and O-Rings: Equal to [**5**] <**Insert number**> percent of amount of each type and size installed.

1. PRODUCTS

Manufacturers and products listed in SpecAgent and MasterWorks Paragraph Builder are neither recommended nor endorsed by the AIA or Deltek. Before inserting names, verify that manufacturers and products listed there comply with requirements retained or revised in descriptions and are both available and suitable for the intended applications.

In first four articles below, do not use same sink designations used for another sink in Section 114000 "Foodservice Equipment" and Section 224100 "Residential Plumbing Fixtures."

* + - 1. SERVICE SINKS

Caution: Sinks in "Service Sinks - Terrazzo, Floor Mounted" paragraph below require a drainage piping trap under the fixture. Trap is not part of the fixture fittings.

Copy "Service Sinks - Terrazzo, Floor Mounted" paragraph and re-edit for each type of terrazzo, floor-mounted service sink required.

Insert drawing designation. Use these designations on Drawings to identify each service sink.

* + - * 1. Service Sinks - Terrazzo, Floor Mounted: <**Insert drawing designation**>.

[Manufacturers:](http://www.specagent.com/Lookup?ulid=3750) Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to the following:

[Acorn Engineering Company; a Division of Morris Group International](http://www.specagent.com/Lookup?uid=123457172921).

[Florestone Products Co., Inc](http://www.specagent.com/Lookup?uid=123457172920).

[Krowne](http://www.specagent.com/Lookup?uid=123457211987).

Approved equivalent.

Source Limitations: Obtain sinks from single source from single manufacturer.

Fixture:

Material: Marble chips cast in portland cement to produce a compressive strength of not less than 3000 psi, seven days after casting.

Shape: [Square] [Rectangular] [Five sided] [Radial front] <Insert shape>.

Nominal Size: [**24 by 24 inches**] [**30 by 30 inches**] [**24 by 36 inches**] [**32 by 32 inches**] [**36 by 36 inches**] <Insert dimensions>.

Height: [**6 inches**] [**10 inches**] [**12 inches**] [**12 inches** with dropped front] <Insert dimensions>.

In "Tiling Flange" subparagraph below, verify availability if required and indicate side(s) if sink is rectangular.

Tiling Flange: [Not required] [On one side] [On two sides] [On three sides].

Indicate front dimension on rectangular sink if rim guard is to be only on one side.

Rim Guard: On [**front**] [**all**] top surfaces.

Color: [Not applicable] <Insert color>.

Drain: Grid with [**2 inch**] [**3 inch**] outlet.

Mounting: On floor and flush to wall.

Faucet: <Insert service sink faucet designation from "Manually Operated Sink Faucets" Article>.

Caution: Sinks in "Service Sinks - Plastic, Floor Mounted" paragraph below require a drainage piping trap under the fixture. Trap is not part of the fixture fittings.

Copy "Service Sinks - Plastic, Floor Mounted" paragraph and re-edit for each type of plastic, floor-mounted service sink required.

Insert drawing designation. Use these designations on Drawings to identify each service sink.

* + - * 1. Service Sinks - Plastic, Floor Mounted: <**Insert drawing designation**>.

[Manufacturers:](http://www.specagent.com/Lookup?ulid=3751) Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to the following:

[Zurn Industries, LLC](http://www.specagent.com/Lookup?uid=123457172924).

Approved equivalent.

Source Limitations: Obtain sinks from single source from single manufacturer.

Fixture:

Standard: CSA B45.5/IAPMO Z124.

Material: [Molded polymer] <Insert material>.

Nominal Size: [**24 by 36 by 10 inches**] [**36 by 36 by 10 inches**] <Insert dimensions>.

Indicate front dimension on rectangular sink if rim guard is to be only on one side.

Rim Guard: On [**front**] [**all**] top surfaces.

Color: [Not applicable] <Insert color>.

Drain: Grid with [**2 inch**] [**3 inch**] outlet.

Mounting: On floor and flush to wall.

Faucet: <Insert service sink faucet designation from "Manually Operated Sink Faucets" Article>.

Caution: Sinks in "Service Sinks - Molded Stone, Floor Mounted" paragraph below require a drainage piping trap under the fixture. Trap is not part of the fixture fittings.

Copy "Service Sinks - Molded Stone, Floor Mounted" paragraph and re-edit for each type of plastic, floor-mounted service sink required.

Insert drawing designation. Use these designations on Drawings to identify each service sink.

* + - * 1. Service Sinks - Molded Stone, Floor Mounted: <**Insert drawing designation**>.

[Manufacturers:](http://www.specagent.com/Lookup?ulid=13959) Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to the following:

[Fiat Products](http://www.specagent.com/Lookup?uid=123457172978).

[Florestone Products Co., Inc](http://www.specagent.com/Lookup?uid=123457172979).

Approved equivalent.

Source Limitations: Obtain sinks from single source from single manufacturer.

Fixture:

Standard: ASME A112.18.2/CSA B125.2.

Shape: [Square] [Rectangular] <Insert shape>.

Nominal Size: [**24 by 24 inches**] [**24 by 36 inches**] <Insert dimensions>.

Height: [**10 inches**] <Insert dimensions>.

Indicate front dimension on rectangular sink if rim guard is to be only on one side.

Rim Guard: On [**front**] [**all**] top surfaces.

Color: [Not applicable] <Insert color>.

Drain: Grid with [**2 inch**] [**3 inch**] outlet.

Mounting: On floor and flush to wall.

Faucet: <Insert service sink faucet designation from "Manually Operated Sink Faucets" Article>.

Copy "Service Sinks - Enameled Cast Iron, Trap Standard Mounted" paragraph below and re-edit for each type of enameled cast-iron, trap-standard-mounted service sink required.

Insert drawing designation. Use these designations on Drawings to identify each service sink.

* + - * 1. Service Sinks - Enameled Cast Iron, Trap Standard Mounted: <**Insert drawing designation**>.

[Manufacturers:](http://www.specagent.com/Lookup?ulid=3752) Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to the following:

[American Standard](http://www.specagent.com/Lookup?uid=123457172916).

[Kohler Co](http://www.specagent.com/Lookup?uid=123457172915).

[Zurn Industries, LLC](http://www.specagent.com/Lookup?uid=123457172918).

Approved equivalent.

Source Limitations: Obtain sinks from single source from single manufacturer.

Fixture:

Standard: ASME A112.19.1/CSA B45.2.

Type: Service sink with back.

Back: [Two faucet holes] [Plain].

Nominal Size: [**22 by 18 inches**] [**24 by 20 inches**].

Color: White.

Mounting: [**2 inch**] [**3 inch**] P-trap standard with grid strainer inlet, cleanout, and floor flange.

Rim: Rolled front and sides

Guard: On front and sides.

Faucet: <Insert service sink faucet designation from "Manually Operated Sink Faucets" Article>.

Coordinate "Support" subparagraph below with "Sink Supports" Article.

Support: [Sink carrier] <Insert carrier>.

Caution: Sinks in "Service Sinks - Enameled Cast Iron, Floor Mounted" paragraph below require a drainage piping trap under the fixture. Trap is not part of the fixture fittings.

Copy "Service Sinks - Enameled Cast Iron, Floor Mounted" paragraph and re-edit for each type of enameled cast-iron, floor-mounted service sink required.

Insert drawing designation. Use these designations on Drawings to identify each service sink.

* + - * 1. Service Sinks - Enameled Cast Iron, Floor Mounted: <**Insert drawing designation**>.

[Manufacturers:](http://www.specagent.com/Lookup?ulid=3754) Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to the following:

[Zurn Industries, LLC](http://www.specagent.com/Lookup?uid=123457172925).

Approved equivalent.

Source Limitations: Obtain sinks from single source from single manufacturer.

Fixture:

Standard: ASME A112.19.1/CSA B45.2.

Style: With front apron and raised back.

Nominal Size: 28 by 28 inches.

Color: White.

Drain: Grid with [**2 inch**] [**3 inch**] outlet.

Rim Guard: Coated wire.

Faucet: <Insert service sink faucet designation from "Manually Operated Sink Faucets" Article>.

* + - 1. KITCHEN/UTILITY SINKS

Copy "Kitchen/Utility Sinks - Stainless Steel, Counter Mounted" paragraph below and re-edit for each type of stainless steel, counter-mounted sink required.

Insert drawing designation. Use these designations on Drawings to identify each kitchen/utility sink.

* + - * 1. Kitchen/Utility Sinks - Stainless Steel, Counter Mounted: <**Insert drawing designation**>.

[Manufacturers:](http://www.specagent.com/Lookup?ulid=13955) Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to the following:

[Advance Tabco](http://www.specagent.com/Lookup?uid=123457172933).

[Eagle Group](http://www.specagent.com/Lookup?uid=123457172935).

[Elkay](http://www.specagent.com/Lookup?uid=123457172934).

[Franke](http://www.specagent.com/Lookup?uid=123457172980).

[Just Manufacturing](http://www.specagent.com/Lookup?uid=123457172932).

Approved equivalent.

Source Limitations: Obtain sinks from single source from single manufacturer.

Fixture:

Standard: ASME A112.19.3/CSA B45.4.

Type: Stainless steel, self-rimming, sound-deadened unit [**less ledge back**] [**with ledge back**].

Number of Compartments: [**One**] [**Two**] [**Three**].

Overall Dimensions: <**Insert dimensions**>.

Material: 18 gauge, Type 304 stainless steel.

Compartment:

Dimensions: <Insert dimensions>.

Retain "Compartment" subparagraph below for single-compartment sinks.

Drain: [Grid with **1-1/2 inch** tailpiece and twist drain] [Grid with **2 inch** tailpiece and twist drain] [**1-1/2 inch** tailpiece with stopper] <Insert drain>.

Drain Location: [Centered in compartment] [Near back of compartment] [Near left side of compartment] [Near right side of compartment] <Insert location>.

Depth: [Standard] [Wheelchair accessible].

Retain "Each Compartment" subparagraph below for multiple-compartment sinks.

Each Compartment:

Dimensions: <Insert dimensions>.

Drains: [Grid with **1-1/2 inch** tailpiece and twist drain] [Grid with **2 inch** tailpiece and twist drain] [**1-1/2 inch** tailpiece with stopper] <Insert drain>.

Drain Location: [Centered in compartment] [Near back of compartment] <Insert location>.

Depth: [Standard] [Wheelchair accessible].

Faucet(s): <Insert sink faucet designation from "Manually Operated Sink Faucets" or "Automatically Operated Sink Faucets" Article>.

Number Required: [**One**] [**Two**].

Mounting: On ledge.

Supply Fittings:

Standard: ASME A112.18.1/CSA B125.1.

Supplies: Chrome-plated brass compression stop with inlet connection matching water-supply piping type and size.

Operation: [Loose key] [Wheel handle] <Insert type>.

Risers: 1/2 inch, [chrome-plated, rigid-copper pipe] [chrome-plated, soft-copper flexible tube] [ASME A112.18.6/CSA B125.6, braided or corrugated stainless steel flexible hose].

Waste Fittings:

Standard: ASME A112.18.2/CSA B125.2.

Trap(s):

Size: [**1-1/2 inch**] [**2 inch**].

Material:

Retain one of first two subparagraphs below. First subparagraph is for 1-1/2 inch or 2 inch (DN 40 or DN 50) traps.

Chrome-plated, [two-piece, cast-brass trap and swivel elbow with 17-gauge brass tube to wall] [two-piece, cast-brass trap and ground-joint swivel elbow with 17-gauge brass tube to wall] <Insert trap type>; and chrome-plated brass or steel wall flange.

If retaining "Continuous Waste" subparagraph below, indicate arrangement on Drawings.

Continuous Waste:

Size: [**1-1/2 inch**] [**2 inch**].

Material: Chrome-plated, 17-gauge brass tube.

Mounting: On counter with sealant.

Caution: Sinks in "Kitchen/Utility Sinks - Stainless Steel, Freestanding" paragraph below are unsuitable for commercial foodservice applications unless they have optional NSF 2 certification as a requirement. Freestanding sinks for commercial foodservice applications are generally specified in Section 114000 "Foodservice Equipment." In projects that do not have Section 114000 "Foodservice Equipment" included, paragraph can be used with inclusion of NSF 2 certification requirement.

Copy "Kitchen/Utility Sinks - Stainless Steel, Freestanding" paragraph and re-edit for each type of stainless steel, freestanding, kitchen/utility sink required.

Insert drawing designation. Use these designations on Drawings to identify each kitchen/utility sink.

* + - * 1. Kitchen/Utility Sinks - Stainless Steel, Freestanding: <**Insert drawing designation**>.

[Manufacturers:](http://www.specagent.com/Lookup?ulid=13956) Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to the following:

[AERO Manufacturing Company](http://www.specagent.com/Lookup?uid=123457172937).

[Amtekco Industries, Inc; a Wasserstrom Company](http://www.specagent.com/Lookup?uid=123457172938).

[Elkay](http://www.specagent.com/Lookup?uid=123457172939).

Approved equivalent.

Source Limitations: Obtain sinks from single source from single manufacturer.

Fixture:

Retain "Standards" subparagraph below only for sinks used in commercial foodservice applications.

Standards:

ASME A112.19.3/CSA B45.4.

NSF 2.

Type: Stainless steel, freestanding, sound-deadened unit with backsplash.

Number of Compartments: [**One**] [**Two**] [**Three**] [**Four**].

Overall Dimensions: <**Insert dimensions**>.

Material: [**14**] [**16**] gauge, Type 304 stainless steel.

Retain "Compartment" subparagraph below for single-compartment sinks.

Compartment:

Dimensions: <Insert dimensions>.

Drain: [Grid with **1-1/2 inch** tailpiece and twist drain] [Grid with **2 inch** tailpiece and twist drain] [**1-1/2 inch** tailpiece with stopper] <Insert drain>.

Drain Location: [Centered in compartment] [Near back of compartment] [Near left side of compartment] [Near right side of compartment] <Insert location>.

Retain "Each Compartment" subparagraph below for multiple-compartment sinks.

Each Compartment:

Dimensions: <Insert dimensions>.

Drains: [Grid with **1-1/2 inch** tailpiece and twist drain] [Grid with **2 inch** tailpiece and twist drain] [**1-1/2 inch** tailpiece with stopper] <Insert drain>.

Drain Location: [Centered in compartment] [Near back of compartment] <Insert location>.

Integral Drainboard(s): [**Not required**] [**Both**] [**Left**] [**Right**] side(s).

Dimensions Each: [Not applicable] <Insert dimensions>.

Legs and Feet: Stainless steel tubing legs with adjustable bullet feet.

Faucet(s): <Insert sink faucet designation from "Manually Operated Sink Faucets" or "Automatically Operated Sink Faucets" Article>.

Number Required: [**One**] [**Two**].

Mounting: On backsplash.

Supply Fittings:

Standard: ASME A112.18.1/CSA B125.1.

Supplies: Chrome-plated brass compression stop with inlet connection matching water-supply piping type and size.

Operation: [Loose key] [Wheel handle] <Insert type>.

Risers: 1/2 inch, [chrome-plated, rigid-copper pipe] [chrome-plated, soft-copper flexible tube] [ASME A112.18.6/CSA B125.6, braided or corrugated stainless steel flexible hose].

Waste Fittings:

Standard: ASME A112.18.2/CSA B125.2.

Trap(s):

Size: [**1-1/2 inch**] [**2 inch**].

Material:

Retain one of first two subparagraphs below. First subparagraph is for 1-1/2 inch or 2 inch (DN 40 or DN 50) traps.

Chrome-plated, [two-piece, cast-brass trap and swivel elbow with 17-gauge brass tube to wall] [two-piece, cast-brass trap and ground-joint swivel elbow with 17-gauge brass tube to wall] <Insert trap type>; and chrome-plated brass or steel wall flange.

If retaining "Continuous Waste" subparagraph below, indicate arrangement on Drawings.

Continuous Waste:

Size: [**1-1/2 inch**] [**2 inch**].

Material: Chrome-plated, 17-gauge brass tube.

* + - 1. HANDWASH SINKS

Retain this article only if "Handwash/Hand Sinks" are not specified in Section 114000 "Foodservice Equipment."

Copy "Handwash Sinks - Stainless Steel" paragraph below and re-edit for each type of stainless steel handwash sink required.

Insert drawing designation. Use these designations on Drawings to identify each handwash sink.

* + - * 1. Handwash Sinks - Stainless Steel: <**Insert drawing designation**>.

[Manufacturers:](http://www.specagent.com/Lookup?ulid=13961) Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to the following:

[Amtekco Industries, Inc; a Wasserstrom Company](http://www.specagent.com/Lookup?uid=123457172987).

[Elkay](http://www.specagent.com/Lookup?uid=123457172989).

[Sloan Valve Company](http://www.specagent.com/Lookup?uid=123457172992).

Approved equivalent.

Source Limitations: Obtain sinks from single source from single manufacturer.

Fixture:

Standards:

ASME A112.19.3/CSA B45.4.

NSF 61.

Type: [**Wall-mounted**] [**Pedestal-base**] stainless steel basin with radius corners, back for faucet, and support brackets.

Overall Dimensions: [**17 by 16 by 5 inches**] <Insert dimensions>.

Caution: Other gauges may be available from manufacturers. Confirm availability prior to selection.

Material: [**18 gauge**] [**20 gauge**] <**Insert gauge**>, Type 304 stainless steel.

Faucet: <Insert sink faucet designation from "Manually Operated Sink Faucets" or "Automatically Operated Sink Faucets" Article>.

Supply Fittings: Comply with requirements in "Supply Fittings" Article.

Waste Fittings: Comply with requirements in "Waste Fittings" Article.

Retain "Support" subparagraph below for wall-mounted sinks.

Coordinate "Support" subparagraph with "Sink Supports" Article.

Support: [Type II sink carrier] <Insert carrier>.

Mounting Height: [Standard] [Child] [Accessible in accordance with Uniform Code A117.1].

Design Consultant to review code references and verify that the referenced sections/tables are current. Note that code references shall be based on the current version of the Uniform Code.

* + - 1. SACRISTY SINKS

Sacristy sinks are custom-made products. Fixtures specified below are typical.

Copy "Sacristy Sinks - Stainless Steel, Wall Hung" paragraph below and re-edit for each type of stainless steel, wall-hung sacristy sink required.

Insert drawing designation. Use these designations on Drawings to identify each sacristy sink.

* + - * 1. Sacristy Sinks - Stainless Steel, Wall Hung: <**Insert drawing designation**>.

[Manufacturers:](http://www.specagent.com/Lookup?ulid=13962) Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to the following:

[Just Manufacturing](http://www.specagent.com/Lookup?uid=123457172993).

Approved equivalent.

Source Limitations: Obtain sinks from single source from single manufacturer.

Fixture:

Standard: ASME A112.19.3/CSA B45.4.

Type: [**Single**] [**Double**] bowl.

Material: Bowl and hinged cover, 18 gauge, Type 304, 18-8 stainless steel.

Nominal Size: Approximately [**20 by 23 inches**] [**21 by 42 inches**] <Insert dimensions>.

Cover: Hinged with lock on [**left**] [**right**] bowl.

Faucet: <Insert sink faucet designation from "Manually Operated Sink Faucets" or "Automatically Operated Sink Faucets" Article>.

Location: On [**left**] [**right**] bowl.

Supply Fittings: Comply with requirements in "Supply Fittings" Article.

Waste Fittings:

Standard: ASME A112.18.2/CSA B125.2.

[**Left**] [**Right**] Bowl:

Drain: Cup with stopper and 1-1/2 inch tailpiece.

Drain Piping: 1-1/2 inch chrome-plated, tubular-brass direct waste without trap, separate waste piping, and wall flange.

Opposite Bowl:

Drain: Grid with stopper and 1-1/2 inch tailpiece.

Trap:

Size: 1-1/2 inch.

Material: Comply with requirements in "Waste Fittings" Article.

Copy "Sacristy Sinks - Stainless Steel, Two Bowl, Cabinet Mounted" paragraph below and re-edit for each type of stainless steel, two-bowl, cabinet-mounted sacristy sink required.

Insert drawing designation. Use these designations on Drawings to identify each sacristy sink.

* + - * 1. Sacristy Sinks - Stainless Steel, Two Bowl, Cabinet Mounted: <**Insert drawing designation**>.

[Manufacturers:](http://www.specagent.com/Lookup?ulid=13963) Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to the following:

[Just Manufacturing](http://www.specagent.com/Lookup?uid=123457172994).

Approved equivalent.

Source Limitations: Obtain sinks from single source from single manufacturer.

Fixture:

Standard: ASME A112.19.3/CSA B45.4.

Type: Cabinet mounted.

Material: Bowl and hinged cover, 18-gauge, Type 304, 18-8 stainless steel.

Nominal Size: Approximately [**21 by 42 inches**] <Insert dimensions>.

Cover: Hinged with lock on [**left**] [**right**] bowl.

Faucet: <Insert sink faucet designation from "Manually Operated Sink Faucets" or "Automatically Operated Sink Faucets" Article>.

Location: On [**left**] [**right**] bowl.

Supply Fittings: Comply with requirements in "Supply Fittings" Article.

Waste Fittings:

Standard: ASME A112.18.2/CSA B125.2.

[**Left**] [**Right**] Bowl:

Drain: Cup with stopper and 1-1/2 inch tailpiece.

Drain Piping: 1-1/2 inch chrome-plated, tubular-brass direct waste without trap, separate waste piping, and wall flange.

Opposite Bowl:

Drain: Grid with stopper and 1-1/2 inch tailpiece.

Trap:

Size: 1-1/2 inch.

Material: Comply with requirements in "Waste Fittings" Article.

Copy "Sacristy Sinks - Stainless Steel, Two Bowl, Counter Mounted" paragraph below and re-edit for each type of stainless steel, two-bowl, counter-mounted sacristy sink required.

Insert drawing designation. Use these designations on Drawings to identify each sacristy sink.

* + - * 1. Sacristy Sinks - Stainless Steel, Two Bowl, Counter Mounted: <**Insert drawing designation**>.

[Manufacturers:](http://www.specagent.com/Lookup?ulid=13964) Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to the following:

[Just Manufacturing](http://www.specagent.com/Lookup?uid=123457172995).

Approved equivalent.

Source Limitations: Obtain sinks from single source from single manufacturer.

Fixture:

Standard: ASME A112.19.3/CSA B45.4.

Type: Self-rimming.

Material: Bowl and hinged cover, 18 gauge, Type 304, 18-8 stainless steel.

Nominal Size: Approximately [**17.5 by 37 inches**] [**18 by 29 inches**] [**22 by 28 inches**] [**22 by 33 inches**] [**22 by 42 inches**] <Insert dimensions>.

Cover: Hinged with lock on [**left**] [**right**] bowl.

Faucet: <Insert sink faucet designation from "Manually Operated Sink Faucets" or "Automatically Operated Sink Faucets" Article>.

Location: On [**left**] [**right**] bowl.

Supply Fittings: Comply with requirements in "Supply Fittings" Article.

Waste Fittings:

Standard: ASME A112.18.2/CSA B125.2.

[**Left**] [**Right**] Bowl:

Drain: Cup with stopper and 1-1/2 inch tailpiece.

Drain Piping: 1-1/2 inch chrome-plated, tubular-brass direct waste without trap, separate waste piping, and wall flange.

Opposite Bowl:

Drain: Grid with stopper and 1-1/2 inch tailpiece.

Trap:

Size: 1-1/2 inch.

Material: Comply with requirements in "Waste Fittings" Article.

* + - 1. SHAMPOO BOWLS

Caution: Shampoo bowls in this article can be counter mounted, wall mounted using a manufacturer-supplied bracket, or mounted in a base unit. Wall-mounted bowls may require additional underbowl or other support.

Copy "Shampoo Bowl - Enameled Cast Iron" paragraph below and re-edit for each type of enameled cast-iron shampoo bowl required.

Insert drawing designation. Use these designations on Drawings to identify each shampoo bowl.

* + - * 1. Shampoo Bowl - Enameled Cast Iron: <**Insert drawing designation**>.

[Manufacturers:](http://www.specagent.com/Lookup?ulid=3734) Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to the following:

[Takara Belmont](http://www.specagent.com/Lookup?uid=123457172927).

Approved equivalent.

Source Limitations: Obtain bowls from single source from single manufacturer.

Fixture:

Standard: ASME A112.19.2/CSA B45.1.

Bowl: Shaped for head rest.

Nominal Size: [**19 by 19 by 10 inches**] <Insert dimensions>.

Color: [White] <Insert color>.

Faucet: Manufacturer's standard with vacuum breaker complying with ASME A112.18.3 and with hose spray head.

Waste Fittings: Comply with requirements in "Waste Fittings" Article except as follows:

Drain: Cup type with hair basket and 1-1/2 inch tailpiece.

Trap Size: 1-1/2 inch.

Mounting Material: [Bracket or devices for attaching to counter] [Wall bracket].

Copy "Shampoo Bowl - Plastic" paragraph below and re-edit for each type of plastic shampoo bowl required.

Insert drawing designation. Use these designations on Drawings to identify each shampoo bowl.

* + - * 1. Shampoo Bowl - Plastic: <**Insert drawing designation**>.

[Manufacturers:](http://www.specagent.com/Lookup?ulid=3735) Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to the following:

[Belvedere, LLC](http://www.specagent.com/Lookup?uid=123457172928).

Approved equivalent.

Source Limitations: Obtain bowls from single source from single manufacturer.

Fixture:

Standard: CSA B45.5/IAPMO Z124.

Material: [Plastic] [FRP] [PMMA] <Insert material>.

Bowl: Shaped for head rest.

Nominal Size: [**19 by 19 by 10 inches**] <Insert dimensions>.

Color: [White] <Insert color>.

Mounting Material: [Bracket or devices for attaching to counter] [Wall bracket].

Faucet: Manufacturer's standard with vacuum breaker complying with ASME A112.18.3 and with hose spray head.

Waste Fittings: Comply with requirements in "Waste Fittings" Article except as follows:

Drain: Cup type with hair basket and 1-1/2 inch tailpiece.

Trap Size: 1-1/2 inch.

Copy "Shampoo Bowl - Solid Surface Material" paragraph below and re-edit for each type of solid-surface-material shampoo bowl required.

Insert drawing designation. Use these designations on Drawings to identify each shampoo bowl.

* + - * 1. Shampoo Bowl - Solid-Surface Material: <**Insert drawing designation**>.

[Manufacturers:](http://www.specagent.com/Lookup?ulid=3736) Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to the following:

[Willoughby Industries](http://www.specagent.com/Lookup?uid=123457172930).

Approved equivalent.

Source Limitations: Obtain bowls from single source from single manufacturer.

Fixture:

Material: Molded, cast polymer.

Bowl: Shaped for head rest.

Nominal Size: [**19 by 19 by 9 inches**] [**22 by 18 by 9 inches**] <Insert dimensions>.

Color: [Gray granite] [Sandstone] [White granite] <Insert color>.

Mounting Material: [Bracket or devices for attaching to counter] [Wall bracket].

Faucet: Manufacturer's standard with vacuum breaker complying with ASME A112.18.3 and with hose spray head.

Waste Fittings: Comply with requirements in "Waste Fittings" Article except as follows:

Drain: Cup type with hair basket and 1-1/2 inch tailpiece.

Trap Size: 1-1/2 inch.

* + - 1. MANUALLY OPERATED SINK FAUCETS

The U.S. Safe Drinking Water Act (SDWA) has required national compliance with less than or equal to 0.25 percent weighted average lead content at wetted surfaces for pipe, fittings, and devices intended to convey or dispense water for human consumption since January 2014. The IPC and the UPC have the same requirements. Items in compliance with NSF 61 and NSF 372 also comply with this requirement. Some manufacturers choose to meet this requirement through independent testing and have "Certified Lead-Free" products, which may or may not have NSF 61 or NSF 372 certification.

* + - * 1. Sink faucets intended to convey or dispense water for human consumption are to comply with the U.S. Safe Drinking Water Act (SDWA), with requirements of the Authority Having Jurisdiction (AHJ), and with NSF 61 and NSF 372, or be certified in compliance with NSF 61 and NSF 372 by an ANSI-accredited third-party certification body, in that the weighted average lead content at wetted surfaces is less than or equal to 0.25 percent.

Copy "Commercial Sink Faucets - Manual Type" paragraph below and re-edit for each manual-type sink faucet required.

Insert designation. Use these designations in sink description to identify each sink faucet.

* + - * 1. Commercial Sink Faucets - Manual Type: [Single-control mixing] [Single-control nonmixing] [Two-handle mixing] [Pre-rinse], <Insert type> <Insert designation>.

[Manufacturers:](http://www.specagent.com/Lookup?ulid=13957) Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to the following:

[American Standard](http://www.specagent.com/Lookup?uid=123457172943).

[Kohler Co](http://www.specagent.com/Lookup?uid=123457172950).

[T&S Brass and Bronze Works, Inc](http://www.specagent.com/Lookup?uid=123457172953).

[Zurn Industries, LLC](http://www.specagent.com/Lookup?uid=123457172954).

Approved equivalent.

Source Limitations: Obtain sink faucets from single source from single manufacturer.

Standard: ASME A112.18.1/CSA B125.1.

General: Include hot- and cold-water indicators; coordinate faucet inlets with supplies and fixture hole punchings; coordinate outlet with spout and sink receptor.

Option in "Body Type" subparagraph below must match fixture hole punching.

Body Type: [Centerset] [Widespread] [Single hole] <Insert type>.

Body Material: Commercial, solid brass, or die-cast housing with brazed copper and brass waterway.

Finish: [Chrome plated] [Polished chrome plate] <Insert finish>.

Retain first option in "Maximum Flow Rate" subparagraph below for pre-rinse units. Retain second option for sinks.

Maximum Flow Rate: [**1.0 to 1.28 gpm**] [**1.5 gpm**] <Insert value>.

Mounting Type: [Deck, concealed] [Deck, exposed] [Back/wall, exposed].

Valve Handle(s): [Lever] [Cross, four arm] [**4-inch** wrist blade] [**6-inch** wrist blade] [Not applicable] <Insert handles>.

Spout Type: [Rigid] [Rigid with wall brace] [Swing] [Rigid gooseneck] [Swivel gooseneck] <Insert type>.

Retain first option in "Vacuum Breaker" subparagraph below for faucets with hose-thread outlet.

Vacuum Breaker: [**Required**] [**Not required**] for hose outlet.

Spout Outlet: [Aerator] [Laminar flow] [Hose thread in accordance with ASME B1.20.7] [Plain end] [Spray] <Insert type>.

Retain "Pre-Rinse Unit" subparagraph below if retaining "Pre-rinse" option in "Commercial Sink Faucets - Manual Type" paragraph.

Pre-Rinse Unit:

Retain and insert appropriate features based on pre-rinse unit application such as pre-rinsing only, rinsing produce or meats, or filling glasses, kettles, or pots.

Style: [Flexible hose] [Rigid] [Combination rigid/flexible] <Insert type>.

Riser: [**18-inch** rigid riser] <Insert type>.

Hose: [**44-inch** flexible stainless steel with heat-resistant handle] <Insert type>.

Spray valve: <**Insert type**>.

Wall bracket.

Copy "Commercial Service Sink Faucets - Manual Type" paragraph below and re-edit for each manual-type service sink faucet required.

Insert designation. Use these designations in sink description to identify each sink faucet.

* + - * 1. Commercial Service Sink Faucets - Manual Type: <**Insert designation**>.

[Manufacturers:](http://www.specagent.com/Lookup?ulid=13969) Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to the following:

[American Standard](http://www.specagent.com/Lookup?uid=123457173439).

[T&S Brass and Bronze Works, Inc](http://www.specagent.com/Lookup?uid=123457173447).

[Zurn Industries, LLC](http://www.specagent.com/Lookup?uid=123457173448).

Approved equivalent.

Source Limitations: Obtain sink faucets from single source from single manufacturer.

Description: Wall/back mounted, brass body, with integral service stops, checks, spout with bucket/pail hook, 3/4-inch hose thread end, integral vacuum breaker, inlets 8 inches o.c., and two-handle mixing.

Faucet:

Standards:

ASME A112.18.1/CSA B125.1.

NSF 61 and NSF 372.

Uniform Code A117.1.

Design Consultant to review code references and verify that the referenced sections/tables are current. Note that code references shall be based on the current version of the Uniform Code.

ASSE 1001 (VB).

Finish: [Rough chrome plated] [Polished chrome plated] <Insert finish>.

Handles: [Lever] [**6-inch** wrist blade] [**4-inch** wrist blade] [4 arms] <Insert type>.

Cartridges: [One-fourth turn compression] [Ceramic] <Insert type>.

Brace: [Adjustable top brace] [Adjustable bottom brace] <Insert type>.

* + - 1. AUTOMATICALLY OPERATED SINK FAUCETS

The U.S. Safe Drinking Water Act (SDWA) has required national compliance with less than or equal to 0.25 percent weighted average lead content at wetted surfaces for pipe, fittings, and devices intended to convey or dispense water for human consumption since January 2014. The IPC and the UPC have the same requirements. Items in compliance with NSF 61 and NSF 372 also comply with this requirement. Some manufacturers choose to meet this requirement through independent testing and have "Certified Lead-Free" products, which may or may not have NSF 61 or NSF 372 certification.

* + - * 1. Sink faucets intended to convey or dispense water for human consumption are to comply with the U.S. Safe Drinking Water Act (SDWA), with requirements of the Authority Having Jurisdiction (AHJ), and with NSF 61 and NSF 372, or be certified in compliance with NSF 61 and NSF 372 by an ANSI-accredited third-party certification body, in that the weighted average lead content at wetted surfaces is less than or equal to 0.25 percent.

Copy "Commercial Sink Faucets - Automatic Type" paragraph below and re-edit for each automatic-type, electronic-sensor-operated valve required.

Insert designation. Use these designations in sink description to identify required faucet for that sink.

* + - * 1. Commercial Sink Faucets - Automatic Type: [**Battery-powered,**] [**Hard-wired,**] electronic-sensor-operated, [**mixing**] [**nonmixing**], <**Insert designation**>.

[Manufacturers:](http://www.specagent.com/Lookup?ulid=13958) Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to the following:

[Kohler Co](http://www.specagent.com/Lookup?uid=123457172964).

[Sloan Valve Company](http://www.specagent.com/Lookup?uid=123457172970).

[T&S Brass and Bronze Works, Inc](http://www.specagent.com/Lookup?uid=123457172967).

[Zurn Industries, LLC](http://www.specagent.com/Lookup?uid=123457172968).

Approved equivalent.

Source Limitations: Obtain sink faucets from single source from single manufacturer.

Standards: ASME A112.18.1/CSA B125.1 and UL 1951.

Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.

General: Include hot- and cold-water indicators; coordinate faucet inlets with supplies and fixture hole punchings; coordinate outlet with spout and fixture receptor.

Option in "Body Type" subparagraph below must match fixture hole punching.

Body Type: [Centerset] [Single hole] <Insert type>.

Body Material: Commercial, solid brass, or die-cast housing with brazed copper and brass waterway.

Finish: [Chrome plated] [Polished chrome1 plate] <Insert finish>.

Maximum Flow Rate: [**0.5 gpm**] <Insert value>.

Mounting Type: [**Deck**] [**Back/wall**].

Spout Type: [Rigid] [Swing] [Rigid, gooseneck] [Swivel, gooseneck] <Insert type>.

Retain "Laminar flow" option in "Spout Outlet" subparagraph below when non-aerating, laminar stream is required.

Spout Outlet: [Aerator] [Laminar flow] [Spray] <Insert type>.

Thermostatic Mixing Valve: [Above deck,] [Below deck,] [single temperature] [adjustable temperature manual side handle, with hot/cold water indicators], with check valves.

Control Module: [**Above deck,**] [**Below deck,**] water-resistant module with internal flow setting switches.

Drain: [Not part of faucet] <Insert type>.

* + - 1. SUPPLY FITTINGS
				1. NSF Standard: Comply with NSF 61 and NSF 372 for supply-fitting materials that will be in contact with potable water.
				2. Standard: ASME A112.18.1/CSA B125.1.
				3. Supply Piping: Chrome-plated brass pipe or chrome-plated copper tube matching water-supply piping size. Include chrome-plated brass or stainless steel wall flange.
				4. Supply Stops: Chrome-plated brass, one-quarter-turn, ball-type or compression valve with inlet connection matching supply piping.

Retain "Wheel handle" option in "Operation" paragraph below for one-quarter-turn, ball-type stops.

* + - * 1. Operation: [Loose key] [Wheel handle] <Insert type>.
				2. Risers:

[**3/8 inch**] [**1/2 inch**].

[Chrome-plated, rigid-copper pipe] [Chrome-plated, soft-copper flexible tube] [ASME A112.18.6/CSA B125.6, braided or corrugated stainless steel flexible hose].

* + - 1. WASTE FITTINGS
				1. Standard: ASME A112.18.2/CSA B125.2.
				2. Drain: Grid type with 1-1/2 inch offset and straight tailpiece.
				3. Trap:

Size: 1-1/2 inch.

Material:

Chrome-plated, [two-piece, cast-brass trap and swivel elbow with 17-gauge brass tube to wall] [two-piece, cast-brass trap and ground-joint swivel elbow with 17-gauge brass tube to wall] [one-piece, cast-brass trap with swivel 17-gauge tubular brass wall bend] <Insert trap type>; and chrome-plated brass or steel wall flange.

* + - 1. SINK SUPPORTS
				1. Sink Carrier:

[Manufacturers:](http://www.specagent.com/Lookup?ulid=13965) Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to the following:

[Josam Company](http://www.specagent.com/Lookup?uid=123457173002).

[WATTS](http://www.specagent.com/Lookup?uid=123457173004).

[Zurn Industries, LLC](http://www.specagent.com/Lookup?uid=123457172999).

Approved equivalent.

Source Limitations: Obtain sink supports from single source from single manufacturer.

Standard: ASME A112.6.1M.

* + - 1. GROUT

Retain this article if floor-mounted service sinks are included.

* + - * 1. Standard: ASTM C1107, Grade B, post-hardening and volume-adjusting, dry, hydraulic-cement grout.
				2. Characteristics: Nonshrink; recommended for interior and exterior applications.
				3. Design Mix: 5000 psi, 28-day compressive strength.
				4. Packaging: Premixed and factory packaged.
1. EXECUTION
	* + 1. EXAMINATION
				1. Examine roughing-in for water-supply piping and sanitary drainage and vent piping systems to verify actual locations of piping connections before sink installation.
				2. Examine walls, floors, and counters for suitable conditions where sinks will be installed.
				3. Proceed with installation only after unsatisfactory conditions have been corrected.
			2. INSTALLATION
				1. Install sinks level and plumb in accordance with rough-in drawings.
				2. Install supports, affixed to building substrate, for wall-hung sinks.

Indicate on Drawings those sinks that are required to be accessible.

* + - * 1. Install wall-mounted sinks at accessible mounting height in accordance with Uniform Code A117.1.

Design Consultant to review code references and verify that the referenced sections/tables are current. Note that code references shall be based on the current version of the Uniform Code.

* + - * 1. Set floor-mounted sinks in leveling bed of cement grout.
				2. Install water-supply piping with stop on each supply to each sink faucet.

Exception: Use ball or gate valves if supply stops are not specified with sink. Comply with valve requirements specified in Section 220523.12 "Ball Valves for Plumbing Piping" and Section 220523.15 "Gate Valves for Plumbing Piping."

Install stops in locations where they can be easily reached for operation.

* + - * 1. Install wall flanges or escutcheons at piping wall penetrations in exposed, finished locations. Use deep-pattern escutcheons if required to conceal protruding fittings. Comply with escutcheon requirements specified in Section 220518 "Escutcheons for Plumbing Piping."
				2. Seal joints between sinks and counters, floors, and walls using sanitary-type, one-part, mildew-resistant silicone sealant. Match sealant color to fixture color. Comply with sealant requirements specified in Section 079200 "Joint Sealants."

Indicate on Drawings those sinks that are required to be accessible.

* + - * 1. Install protective shielding pipe covers and enclosures on exposed supplies and waste piping of accessible sinks.
			1. PIPING CONNECTIONS

Coordinate piping installations and specialty arrangements with Drawings and with requirements specified in piping systems. If Drawings are explicit enough, these requirements may be reduced or omitted.

* + - * 1. Connect fixtures with water supplies, stops, and risers, and with traps, soil, waste, and vent piping. Use size fittings required to match fixtures.
			1. ELECTRICAL CONNECTIONS
				1. Connect wiring in accordance with Section 260519 "Low-Voltage Electrical Power Conductors and Cables."
				2. Ground equipment in accordance with Section 260526 "Grounding and Bonding for Electrical Systems."
				3. Install electrical devices furnished by manufacturer, but not factory mounted in accordance with NFPA 70 and NECA 1.
				4. Install nameplate for each electrical connection, indicating electrical equipment designation and circuit number feeding connection.

Retain one of two subparagraphs below. First subparagraph cross-references Section 260553 "Identification for Electrical Systems" and should be retained for consistent electrical identification. Second subparagraph is an abbreviated version of the product specified in Section 260553 "Identification for Electrical Systems."

Nameplate shall be laminated acrylic or melamine plastic signs, as specified in Section 260553 "Identification for Electrical Systems."

Nameplate shall be laminated acrylic or melamine plastic signs with a black background and engraved white letters at least [**1/2 inch**] <**Insert dimension**> high.

* + - 1. ADJUSTING
				1. Operate and adjust sinks and controls. Replace damaged and malfunctioning sinks, fittings, and controls.
				2. Install new batteries in battery-powered, electronic-sensor mechanisms.
			2. CLEANING AND PROTECTION
				1. After completing installation of sinks, inspect and repair damaged finishes.
				2. Clean sinks, faucets, and other fittings with manufacturers' recommended cleaning methods and materials.
				3. Provide protective covering for installed sinks and fittings.
				4. Do not allow use of sinks for temporary facilities unless approved in writing by Director’s Representative.

END OF SECTION 224216.16