

BRADLEY CORPORATION
TERREON SOLID SURFACING COUNTERTOPS AND SINKS
Guide Specification

Bradley Corporation, the industry's leading manufacturer of premium quality commercial lavatories, presents Terreon Solid-surface-material and TerreonRE Recycled Solid-surface-material for countertops and vanities with accompanying integrated solid surface sinks. Terreon lasts a lifetime and can easily be repaired and renewed, minimizing the need for replacement or disposal. They meet the highest industry quality and performance standard for solid-surface-materials.

Pigments used to manufacture Terreon and TerreonRE are free from heavy metals and toxic or carcinogenic ingredients. They withstand the abuse of chemicals, stains, burns and impact. Both materials are Class 1 Fire Rated, so in a fire situation, they burn clean with an insignificant amount of smoke.

TerreonRE Recycled Solid-surface-material as part of Bradley's Commitment to the Environment has all of the features of Terreon Solid Surface with the added benefit of 25% pre-consumer recycled granules and 8% rapidly renewable material which can count toward LEED credits. Bradley offers an extensive Terreon and TerreonRE color collection as an option for Bradley's solid surface product offerings.

Section 10 21 13 – Toilet Compartments (Mills Metal, Plastic-laminate, Phenolic, and Plastic units)

Section 10 28 13.13 – Commercial Toilet Accessories

Section 10 28 13.15 – Warm Air Dryers

Section 10 28 13.63 – Detention Toilet Accessories

Section 10 51 26.00 – Plastic Lockers (Lenox Plastic Lockers)

Section 12 36 61.16 – Solid Surface Countertops and Sinks

Section 22 11 19 00 – Domestic Water Piping Specialties (Thermostatic mixing valves)

Section 22 42 16.01 – Commercial Lavatories and Faucets (Single and multi-station lavatory systems)

Section 22 42 16.02 – Commercial Lavatories and Faucets (Bradley Advocate™ Lavatory System)

Section 22 42 16.03 – Commercial Lavatories and Faucets (Bradley Verge™ Lavatory System)

Section 22 42 16.04 – Commercial Lavatory Decks and Faucets (Single and multi-station Omni Decks™)

Section 22 42 16.11 – Commercial Sinks and Faucets

Section 22 42 16.13 – Commercial Lavatories and Faucets

Section 22 42 23 – Commercial Showers and Shower Valves

Section 22 42 33 – Wash Fountains

Section 22 43 00 – Healthcare Plumbing Fixtures (Patient care lavatory units)

Section 22 45 00 – Emergency Plumbing Fixtures (Emergency Eyewash Fixtures and Drench Showers)

Section 22 46 00 – Security Plumbing Fixtures

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SECTION 12 36 61.16

SOLID SURFACING COUNTERTOPS AND SINKS

PART 1 - GENERAL

1.1 SECTION INCLUDES

Specifier: Delete section scope not required.

- A. Solid-surface-material countertops.
- B. Solid-surface-material countertops with undermount sinks.
- C. All-in-One chrome-plated cast alloy touch-free soap, water, and hand dryer.
- D. Coordinated faucets and soap dispensers.

1.2 RELATED SECTIONS

Specifier: Delete section references that do not apply to this project.

- A. Division 05 Section "Metal Fabrications" for metal countertop supports.
- B. Division 06 Section "Rough Carpentry" for wood countertop supports.
- C. Division 06 Section "Architectural Cabinets" for millwork supporting countertops.
- D. Division 12 Section "Manufactured Casework" for manufactured casework supporting countertops.
- E. Division 22 Section "Residential Plumbing Fixtures" for sinks and plumbing fittings.
- F. Division 22 Section "Domestic Water Piping Specialties" for thermostatic mixing valves.
- G. Division 22 Section "Commercial Lavatories and Faucets" for single- and multiple- station lavatory systems.

- H. Division 22 Section "Commercial Lavatory Decks and Faucets" for single- and multiple- station lavatory decks.

Specifier: Section 22 43 00 – Healthcare Plumbing Fixtures (Patient care lavatory units)

- I. Division 22 Section "Healthcare Plumbing Fixtures" for healthcare lavatories.

Specifier: Section 22 45 00 – Emergency Plumbing Fixtures (Emergency Eyewash Fixtures and Drench Showers)

- J. Division 22 Section "Emergency Plumbing Fixtures" for emergency fixtures.
- K. Division 22 Section "Security Plumbing Fixtures" for security lavatories.

1.3 REFERENCES:

Specifier: If retaining this optional REFERENCES article, edit list below to correspond to references that remain in Section after editing.

- A. American Society of Sanitary Engineering (ASSE):
 - 1. ASSE 1070 - Water Temperature Limiting Devices.
- B. American National Standards Institute (ANSI):
 - 1. ANSI Z 124.3 - Plastic Lavatories

2. ANSI Z 124.6 - Plastic Sinks

C. ASTM International (ASTM):

1. ASTM C 170 - Standard Test Method for Compressive Strength of Dimension Stone
2. ASTM D 570 - Standard Test Method for Water Absorption of Plastics
3. ASTM D 785 - Standard Test Method for Rockwell Hardness of Plastics and Electrical Insulating Materials
4. ASTM D 790 - Standard Test Methods for Flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials
5. ASTM E 84 - Standard Test Method for Surface Burning Characteristics of Building Materials

D. Canadian Standards Association (CSA):

1. CSA B125 - (See ASME A112.18.1 - Plumbing Fixture Fittings)

GREENGUARD Environment Institute is an ANSI Authorized Standards Developer that oversees the GREENGUARD certification program. GEI establishes acceptable indoor air standards for indoor products, environments, and buildings.

E. GREENGUARD Environmental Institute (GEI):

1. GREENGUARD listed and certified low emitting products

F. International Association of Plumbing and Mechanical Officials (IAPMO):

1. Universal Plumbing Code (cUPC both U.S. and Canada)
2. IAPMO IGC 156.
3. IAPMO IGC 127 (washbar only).

G. International Code Council (ICC):

1. ICC/ANSI A117.1 - Accessible and Usable Buildings and Facilities

H. National Fire Protection Association (NFPA):

1. NFPA 70 – National Electrical Code.

I. NSF International:

1. NSF/ANSI 372 - Lead-Free content requirement.

J. State of Texas:

1. Texas Accessibility Standards (TAS)

K. Underwriters Laboratories, Inc. (UL):

1. UL 723 - Test For Surface Burning Characteristics of Building Materials.
2. UL499, CAN/CSAC22.2 No. 36-08 (Hand dryer only).
3. UL 1951 - Electric Plumbing Accessories.

L. United States Green Building Council (USGBC):

1. LEED Green Building Rating System (LEED)

M. US Federal Government:

1. Public Law 102-486 - Energy Policy Act of 1992 (EPACT).
2. U.S. Architectural & Transportation Barriers Compliance Board. Americans with Disabilities Act (ADA), Accessibility Guidelines for Buildings and Facilities (ADAAG)

1.4 ACTION SUBMITTALS

A. Product Data: For each product:

1. Manufacturer's data sheets indicating operating characteristics, materials and finishes.
2. Include details of electrical and mechanical operating parts.
3. Provide mounting requirements and rough-in dimensions.
4. Mark each sheet with product drawing designation.

- B. Product Test Reports: Indicating compliance of products with requirements, from a qualified independent testing agency, when requested by Architect.
- C. Shop Drawings: Provide mounting and support requirements, and rough-in and finished installation dimensions. Indicated compliance with accessibility requirements where applicable.

Specifier: Bradley Corporation's TerreonRe optional solid surface material contains 25 percent preconsumer recycled content.

LEED WE Credit 2 is for 50 percent reduction in water use for building sewer, based on use of water-conserving fixtures documented under Credit WE 3. LEED WE Credit 3 is for 30, 35, or 40 percent reduction in water usage. Coordinate with Division 01 requirements for LEED MR Credit 5 Regional Materials where applicable.

- D. LEED Submittals:
 - 1. Product Data for [Credit WE 2] and [Credit WE 3]: Documentation indicating compliance with requirements.
 - 2. Product data for Credit MR 4: Indicate percentages by weight of postconsumer and preconsumer recycled content, and product cost.
- E. Shop Drawings: For countertops and integral sinks. Show materials, finishes, edge and backsplash profiles, methods of joining, and locations of cutouts for other plumbing fixtures and accessories.
- F. Samples for Initial Selection: For each type of material exposed to view.

Delete "Samples for Initial Selection" Paragraph above if colors and other characteristics are preselected and specified or scheduled. Retain paragraph below with or without paragraph above. For larger projects, consider retaining second subparagraph below to verify profiles of fabricated components.

- G. Samples for Verification: For the following products:
 - 1. Countertop material, in manufacturer's standard size.
 - 2. Wood trim, 8 inches (200 mm) long.
 - 3. One full-size solid-surface-material countertop, with front edge[and backsplash], 8 by 10 inches (200 by 250 mm), of construction and in configuration specified, when requested by Architect.

1.5 INFORMATION SUBMITTALS

- A. Qualifications: For fabricator.
- B. Sample warranty.
- C. Manufacturer's Certificates.
- D. Indoor environmental quality certificates.

1.6 MAINTENANCE SUBMITTALS

- A. Furnish indicated spare parts that are packaged with identifying labels listing associated products.
- B. Operation, maintenance and cleaning data.

1.7 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Approved manufacturer listed in this section, with minimum 5 years' experience in the manufacture of solid-surface-material and integral sinks. Manufacturers seeking approval shall submit the following:
 - 1. Product data, including test data from qualified independent testing agency indicating compliance with requirements.
 - 2. Samples of each component of product specified.

3. List of successful installations of similar products available for evaluation by Architect.
 4. Submit substitution request prior to bid date as required by Instructions to Bidders and Division 01 General Requirements.
- B. Source Limitations: Obtain solid-surface-material [including undermount sinks] through one source from a single approved manufacturer.
- C. Fabricator Qualifications: Experienced fabricator approved by solid-surface-material manufacturer and experienced in fabrication and installation of components similar to those required for Project.
- D. Installer Qualifications: Fabricator of components.

Specifier: As of January 4, 2014, the Safe Drinking Water Act (SDWA) requires drinking water products sold or installed for use in public water systems, as well as plumbing in facilities, to meet a weighted average of not more than 0.25 percent lead.

- A. Laminar-Flow, Faucet-Spout Outlets:
1. NSF Standard: Comply with NSF 372 for faucet-spout outlet materials that will be in contact with potable water.
 2. Product shall meet a weighted average of not more than 0.25 percent lead as required by the U.S. Safe Drinking Water Act.
 3. Description: Chrome-plated-brass, faucet-spout outlet that produces non-aerating, laminar stream. Include external or internal thread that mates with faucet outlet for attachment to faucets where indicated and flow-rate range that includes flow of faucet.

Specifier: Bradley offers handicapped-accessible fixtures meeting requirements of ADA, ICC A117.1, and Texas Accessibility Standards.

- B. Accessibility Requirements: Comply with requirements of ADA \ ANSI 117.1 and with requirements of authorities having jurisdiction.
1. 306 Knee and Toe Clearance.
 2. 308 Reach Range.
 3. 309.4 Operation.
 4. 606.4 Faucets.
 5. 606.5 Exposed Pipes & Surfaces with access panels.
- C. Water Flow and Consumption Requirements: Comply with EPACT.
- D. Electrical Components: Listed and labeled per NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction.
- E. Comply with Public Law 102-486, Energy Policy Act.

Specifier: Bradley's Terreon and TerreonRE materials exceed LEED for Schools IEQ requirements as certified by GREENGUARD.

- F. Indoor Environmental Quality Certification: Provide certificate indicated that lavatory deck materials have been certified under the following programs, or a comparable certification acceptable to Owner:
1. GREENGUARD Indoor Air Quality Certified.
 2. GREENGUARD Certified for Children and Schools.
 3. Product shall be certified Green Guard Gold certificate.

1.8 COORDINATION

- A. Field Measurements: Verify locations of countertops and adjacent walls prior to fabrication.
- B. Coordinate locations of utilities that will penetrate countertops or backsplashes.

1.9 WARRANTY

- A. Special Manufacturer's Warranty: Provide manufacturer's standard form in which manufacturer agrees to repair or replace products that fail in materials or workmanship within the following periods:
1. Solid surface material: 10 years.
 2. WashBar: 1 year.
 3. Faucets: 3 years.
 4. Soap Dispensers: 3 years.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Basis-of-Design Product: Subject to compliance with requirements, provide products of **Bradley Corporation**, Menomonee Falls, WI 53051, (800)272-3539, fax (262)251-5817; Email info@BradleyCorp.com; Website www.bradleycorp.com.

Specifier: Retain one of three paragraphs below based upon Project requirements. The manufacturer is not aware of comparable manufactured products.

1. Submit comparable products of one of the following for approval by Architect:
 - a. **[Specifier: Insert name of manufacturer of comparable product.]**
2. Submit requests for substitution in accordance with Instructions to Bidders and Division 01 General Requirements.
3. Provide specified product; Owner will not consider substitution requests.

2.2 MATERIALS

Specifier: Below describes **Bradley Terreon**, a premium densified solid surface vandal-resistant material, noted for its resistance to chemicals, stains, burns and impacts. Surface damage can be easily repaired with everyday cleansers or fine grit abrasives.
Option in Paragraph below describes Bradley's unique **TerreonRE** incorporating recycled content in solid-surface-material.

- A. Solid-surface-material: Fabricate countertops and plumbing fixtures from thermoset bio-based resin certified by approved independent testing agency as complying with the requirements of CSA B45.5IAPMO Z124,[with minimum 25 percent preconsumer recycled content and] with the following minimum properties:
1. Basis of Design Product: **Bradley, [Terreon][TerreonRE]**. Model TSA material.
 2. Liquid Absorption: 0.025 percent in 24 hours, per ASTM D 570.
 3. Tensile Strength: **5000 psi (34 MPa)**, minimum, per ASTM D 638.
 4. Thermal Expansion: 2.30, per ASTM D 696.
 5. Hardness: 55-60, per ASTM D 785.
 6. Fire Resistance: Class 1, per ASTM E 84.

Specifier: Retain "Solid Wood Edges and Trim" Paragraph below for countertops with decorative wood edge. Wood species are examples only; other species may be available. Indicate details on Drawings.

- B. Solid Wood Edges and Trim: Clear **[red oak][white oak][hard maple][cherry][Insert species]** lumber, free of defects, selected for compatible grain and color, and kiln dried to 7 percent moisture content.

Specifier: Sealant may be required for joints at walls. If retaining "Sealant for Countertops" Paragraph below, coordinate with Section 079200 "Joint Sealants."

- A. Sealant for Countertops: Comply with applicable requirements in Section 079200 "Joint Sealants."

- B. Adhesives: Manufacturer's recommended urea formaldehyde-free adhesive, color matched to countertop finish.

Specifier: **Bradley Terreon and TerreonRE Countertops** offer the designer integrated countertop and vanity top installations in a variety of colors. Countertops fabricated using Bradley Terreon and TerreonRE sheet stock with Bradley integral basins can be fabricated by manufacturer-approved solid surface fabricators in ADA configurations, are formed from GREENGUARD-certified materials, and may incorporate recycled materials.

2.3 SOLID-SURFACE-MATERIAL COUNTERTOPS (CNT# ____)

- A. Configuration: Provide [ADA/ABA compliant] countertops with flat deck [and with integral sinks,] in the following configuration:

Specifier: Edit fabrication options below to suit Project, or delete if detailed on Drawings.

1. Countertops: 1/2-inch (12.7 mm) thick, solid-surface-material [with front edge built up with matching material].
 - a. Front: [Straight, slightly eased at top with apron, 1 inch (25 mm) to 10 inches (254 mm) high][Beveled with apron, 1 inch (25 mm) to 10 inches (254 mm) high][Radius edge with apron, 1 inch (25 mm) to 10 inches (254 mm) high with 3/8 inch (9.5 mm) radius].
 2. Backsplash: 1/2 inch (12.7 mm) thick, solid-surface-material, [straight, slightly eased at corner][beveled][radius edge with 3/8 inch (9.5 mm) radius].
 3. Endsplash: 1/2 inch- (12.7 mm) thick, solid-surface-material, [matching backsplash].
 4. Integral Sink: In size and shape indicated.
 5. Mounting: [Stainless steel mounting brackets][Wall cleats specified in another Section][Casework specified in another Section].
 6. Unit Size: As indicated on Drawings.
 7. Countertop Colors: [As scheduled or indicated on Drawings][As selected from manufacturer's full range].
- B. Fabrication: Fabricate tops in one piece with shop-applied edges unless otherwise indicated. Comply with solid-surface-material manufacturer's written instructions for adhesives, sealers, fabrication, and finishing.
1. [Fabricate with loose backsplashes for field assembly][Fabricate with integral backsplashes].
 2. Install integral sink bowls in countertops in the shop.

2.4 INTEGRAL UNDERMOUNT SINKS

- A. Integral Sinks, General: Molded solid-surface-material in size and shape indicated, configured for undermount attachment to solid-surface-material countertops. Comply with Uniform Plumbing Code (UPC), International Plumbing Code (IPC) and National Plumbing Code of Canada (NPC) approved through the International Association of Plumbing and Mechanical Officials (IAPMO). Manufactured in compliance with IGC 156, CSA B45 Series & ASME A112.18.1/CSA B125.1.

Specifier: Verify whether sink water supply includes tempered water prior to selecting color. Bradley's full color line is available for sinks plumbed with tempered water; a limited color selection applies to sinks with hot or cold water supplies.

1. Sink Colors: [As scheduled or indicated on Drawings][As selected from manufacturer's full range].

Specifier: Retain Bradley basin type(s) required for Project. Flat-bottomed multipurpose basins are especially suitable for locations where items will be set in the sink for cleaning as well as handwashing; handwashing-only sinks have sloped bottoms. All Bradley basins are ADA complaint when integrated with a counter mounted at the proper height and proper knee, toe and reach clearance is provided. Consider

as a prefabricated LD3010 Omnideck Lavatory System ready to install. No fabrication required on-site.
Delete undermount sink not required.

- B. Multipurpose Sink, Oval (**SNK#**____): 22 by 14 by 5 inches deep (559 by 356 by 127 mm), with flat bottom.

1. Basis of Design Product: **Bradley, HS-TO1** Terreon Multipurpose Basins.

Specifier: Delete if HS-TR1 scheduled with washbar. Refer to article below.

- C. Multipurpose Sink, Rectangular (**SNK#**____): 22 by 16 by 5 inches deep (559 by 406 by 127 mm deep), with flat bottom.

1. Basis of Design Product: **Bradley, HS-TR1** Terreon Multipurpose Basins.

Specifier: Delete if not required.

- D. Multipurpose Sink, Square (**SNK#**____): 14 by 14 by 5 inches deep (356 by 356 by 127 mm deep), with flat bottom.

1. Basis of Design Product: **Bradley, HS-TS1** Terreon Multipurpose Basins.

Specifier: Delete if not required.

- E. Handwashing Sink, Oval (**SNK#**____): 16 by 13 by 5-1/4 inches deep (406 by 330 by 175 mm deep), with molded integral overflow.

1. Basis of Design Product: **Bradley, SL-TO1** Handwashing Basins.

Specifier: Delete if not required.

- F. Handwashing Sink, Rectangular (**SNK#**____): 17 by 14 by 5-3/4 inches deep (432 by 356 by 146 mm deep), with molded integral overflow.

1. Basis of Design Product: **Bradley, SL-TR1** Handwashing Basins.

2.5 UNDERMOUNT LAVATORY WITH WASHBAR

Specifier: The WashBar with undermount basin is designed to accommodate one user at a time.

The single piece All-in-One WashBar allows users to access soap, water and a hand dryer without leaving the hand washing station. The unit handles washroom traffic quickly and economically, while providing each user with personal space. Pair the WashBar with undermount basin with any countertop material, provided by others, to achieve a customized all-in-one solution.

Deck material by others shall be a minimum deck thickness 0.5 inch (12.7 mm) and maximum deck thickness 0.9 inch (22.9 mm) for HS-TR1 Terreon.

- A. Lavatory System (**SNK#**____):

1. One piece chrome plated touch-free time of flight sensor activated soap, water, and hand dryer.
2. Single piece cast-formed undermount basin to eliminate caulk lines and seams with countertop material.
3. Undermount basin and drain engineered to evacuate water and dissipate air flow.
4. Basin system includes drain assembly, plumbing connections, and access panel.

- B. Commercial Undermount Lavatory with All-In-One Touch-Free Soap, Water, and Hand Dryer.

Specifier: Select combination of washbar (WB1 and WB2) and lavatory material. Solid surface Terreon (TR1).

1. Basis of Design Manufacturer/Model: **Bradley, Lavatory System, Model No. [WB1-WB-TR1** (WashBar WB1 w/Touch-Free Time of Flight Sensor Activation & Terreon Undermount Basin)]**[WB2-WB-TR1** (WashBar WB2 w/Touch-Free Time of Flight Sensor Activation & Terreon Undermount Basin)].

Specifier: Select from Standard, Refer to Bradley technical document for available colors.

2. Bowl Color: **[insert Bradley color required]**.
3. Trench Drain Cap Type: **[Stainless steel trench drain cap and drain tailpiece.]****[Slotted stainless steel trench drain cap w/vandal screws and drain tailpiece.]**

4. Soap Type: [Foam Soap Dispenser - 1 gallon (3.8 L) (soap container by others.)][Liquid Soap Dispenser - 1 gallon (3.8 L) soap container by others.]
5. Water Supply: [Navigator® thermostatic mixing assembly (supply hoses and shut-offs included).][Single Tempered Line Assembly (supply hoses and shut-offs included).]

Specifier: Maximum run time is 11 seconds. The 0.5 gpm /1.90 Lpm option is the equivalent to 0.09 gpc /0.35 Lpc and the 0.35 gpm /1.33 Lpm option is the equivalent to 0.07 gpc /0.24 Lpc. Automatic 5 second purge within 24 hours of the last use. Recommended operating range is 20-80 psi.

6. Flow Control Type (Non-aerated): [0.35 gpm (1.3 Lpm) PCA Silicone Tip, Multiple Individual Laminar Flow Streams.][0.50 gpm (1.9 Lpm) PCA Silicone Tip, Multiple Individual Laminar Flow Streams.]

Specifier: The dryer motor provides heated air at three speeds, high-medium-low, which can be field adjusted by placing the WashBar in configuration mode.

7. Hand Dryer Power Requirements: DC Motor 120V/60Hz, 20A, 1200 W. The single sided dryer shall dry hands in approximately 15 seconds depending on user preference. The decibel range with hands in air stream shall be 76 dB (high speed) to 64 dB (low speed).
8. Trap enclosure Color: [STAIN Swing Down Stainless Steel.][STAIN-E Swing Down Stainless Steel w/Enclosed Bottom.][PWB Swing Down Matte Black Powder-Coated Stainless Steel.][PWB-E Swing Down Matte Black Powder-Coated Stainless Steel w/Enclosed Bottom.][NONE No Access Panel.]

2.6 SENSOR-OPERATED WASHBAR

Specifier: Retain descriptions of required WashBar WB1; if more than one WashBar type is required, insert WashBar designation in paragraph below.

This plumbing fixture is designed for hand washing only. It is not Intended to dispense water for human consumption for drinking or for preparation of food or beverages.

Please visit <https://www.bradleycorp.com/maintenance/soap-dispensers> for soap recommendations.

- A. Sleek single casting WashBar with integral soap, faucet and single nozzle hand dryer with heated air and adjustable speeds, infrared control, smart technology with adjustable LED lighting and easy to identify icons and external tempering control (FCT# ____):
 1. Basis of Design Manufacturer/Model: **Bradley WB1.**
 2. Function: Blue LED lights help guide the user, indicating the functions. The LED light will change from blue to green to signify that the function is in use. Each function is easily identified by the corresponding icon on the WashBar top surface. Each sensor includes a turn-off delay of 1-2 seconds to aid in a smooth, controlled hand-washing
 3. Body: Polished chrome plated stainless steel. Load tested to 500 pounds (227 Kg), WashBar is secured to the basin with two anti-rotational shanks.

Specifier: Select either chrome finish or PVD finish. Delete chrome finish if not required.

4. Chrome Finish: "PC" Polished Chrome.

Specifier: Physical Vapor Deposition is an intricate, environmentally friendly finishing process that molecularly bonds the finish to the faucet, creating a very hard, durable surface that will not corrode, discolor, or tarnish. Delete PVD finishes if not required.

5. Physical Vapor Deposition (PVD) Finish: "BB" Brushed Black Stainless.
6. Physical Vapor Deposition (PVD) Finish: "BS" Brushed Stainless.
7. Physical Vapor Deposition (PVD) Finish: "BZ" Brushed Bronze.
8. Physical Vapor Deposition (PVD) Finish: "BR" Brushed Brass.
9. Physical Vapor Deposition (PVD) Finish: "BN" Brushed Nickel.
10. Tempered Water Supply: [Single tempered line][Single thermostatic mixing valve].
11. Flow Control: [0.35 gpm (1.3 Lpm) PCA Rubber Tip Aerator.][0.50 gpm (1.9 Lpm) PCA Rubber Tip Aerator.][None.]

12. Soap Type: [Foam Soap Dispenser][Liquid Soap Dispenser]. Soap system accommodates up to a 1 gallon (3.8 L) container.

Specifier: The dryer motor provides heated air at three speeds, high-medium-low, which can be field adjusted by placing the WashBar in configuration mode.

13. Hand Dryer: DC Motor 120v/60hz, 20 Amp.
14. Sensor Module: Water-conserving, durable sensor unit with adjustable timing turn-off delay and stationary object automatic timed cutoff, with diagnostic signal light.
a. Sensing Distance: 5 inches (127mm).
15. Power Supply: 120V 2A 12V DC adapter that plugs directly into the electrical outlet.

Specifier: Retain thermostatic mixing valve if required for Project.

16. Thermostatic Mixing Valve: Thermostatic mixing valve, ASSE 1070 listed, with stop/strainer/check valves, and flexible stainless steel connectors.

Specifier: Retain descriptions of required WashBar WBD1; if more than one WashBar type is required, insert WashBar designation in paragraph below and use WashBar designation in Lavatory Deck Article above. Delete if not required.

Please visit <https://www.bradleycorp.com/maintenance/soap-dispensers> for soap recommendations.

- B. Sleek single casting WashBar with integral soap and faucet, infrared control, smart technology with adjustable LED lighting and easy to identify icons and external tempering control

(FCT# ____):

1. Basis of Design Manufacturer/Model: **Bradley WBD1.**
2. Function: Blue LED lights help guide the user, indicating the functions. The LED light will change from blue to green to signify that the function is in use. Each function is easily identified by the corresponding icon on the WashBar top surface. Each sensor includes a turn-off delay of 1-2 seconds to aid in a smooth, controlled hand-washing
3. Body: Polished chrome plated stainless steel. Load tested to 500 pounds (227 Kg), WashBar is secured to the basin with two anti-rotational shanks.

Specifier: Select either chrome finish or PVD finish. Delete chrome finish if not required.

4. Chrome Finish: "PC" Polished Chrome.

Specifier: Physical Vapor Deposition is an intricate, environmentally friendly finishing process that molecularly bonds the finish to the faucet, creating a very hard, durable surface that will not corrode, discolor, or tarnish. Delete PVD finishes if not required.

5. Physical Vapor Deposition (PVD) Finish: "BB" Brushed Black Stainless.
6. Physical Vapor Deposition (PVD) Finish: "BS" Brushed Stainless.
7. Physical Vapor Deposition (PVD) Finish: "BZ" Brushed Bronze.
8. Physical Vapor Deposition (PVD) Finish: "BR" Brushed Brass.
9. Physical Vapor Deposition (PVD) Finish: "BN" Brushed Nickel.
10. Tempered Water Supply: [Single tempered line][Single thermostatic mixing valve].
11. Flow Control: [0.35 gpm (1.3 Lpm) PCA Rubber Tip Aerator.][0.50 gpm (1.9 Lpm) PCA Rubber Tip Aerator.][None.]
12. Soap Type: [Foam Soap Dispenser][Liquid Soap Dispenser]. Soap system accommodates up to a 1 gallon (3.8 L) container.
13. Sensor Module: Water-conserving, durable sensor unit with adjustable timing turn-off delay and stationary object automatic timed cutoff, with diagnostic signal light.
a. Sensing Distance: 5 inches (127mm).
14. Power Supply: 120V 2A 12V DC adapter that plugs directly into the electrical outlet.

Specifier: Retain thermostatic mixing valve if required for Project.

15. Thermostatic Mixing Valve: Thermostatic mixing valve, ASSE 1070 listed, with stop/strainer/check valves, and flexible stainless steel connectors.

Specifier: Retain descriptions of required WashBar WB2; if more than one WashBar type is required, insert WashBar designation in paragraph below and use WashBar designation in Lavatory Deck Article above.

This plumbing fixture is designed for hand washing only. It is not intended to dispense water for human consumption for drinking or for preparation of food or beverages.
Please visit <https://www.bradleycorp.com/maintenance/soap-dispensers> for soap recommendations.

- C. Sleek single casting WashBar with integral soap, faucet and single nozzle hand dryer with heated air and adjustable speeds, infrared control, smart technology with adjustable LED lighting and easy to identify icons and external tempering control (**FCT# ____**):
1. Basis of Design Manufacturer/Model: **Bradley WB2**.
 2. Function: Blue LED lights help guide the user, indicating the functions. The LED light will change from blue to green to signify that the function is in use. Each function is easily identified by the corresponding icon on the WashBar top surface. Each sensor includes a turn-off delay of 1-2 seconds to aid in a smooth, controlled hand-washing
 3. Body: Polished chrome plated stainless steel. Load tested to **500 pounds (227 Kg)**, WashBar is secured to the basin with one anti-rotational shank.
 4. Tempered Water Supply: **[Single tempered line][Single thermostatic mixing valve]**.

Specifier: Select either chrome finish or PVD finish. Delete chrome finish if not required.

5. Chrome Finish: "PC" Polished Chrome.

Specifier: Physical Vapor Deposition is an intricate, environmentally friendly finishing process that molecularly bonds the finish to the faucet, creating a very hard, durable surface that will not corrode, discolor, or tarnish. Delete PVD finishes if not required.

6. Physical Vapor Deposition (PVD) Finish: "BB" Brushed Black Stainless.
7. Physical Vapor Deposition (PVD) Finish: "BS" Brushed Stainless.
8. Physical Vapor Deposition (PVD) Finish: "BZ" Brushed Bronze.
9. Physical Vapor Deposition (PVD) Finish: "BR" Brushed Brass.
10. Physical Vapor Deposition (PVD) Finish: "BN" Brushed Nickel.
11. Flow Control: **[0.35 gpm (1.3 Lpm) PCA Rubber Tip Aerator.][0.50 gpm (1.9 Lpm) PCA Rubber Tip Aerator.][None.]**
12. Soap Type: **[Foam Soap Dispenser][Liquid Soap Dispenser]**. Soap system accommodates up to a **1 gallon (3.8 L)** container.

Specifier: The dryer motor provides heated air at three speeds, high-medium-low, which can be field adjusted by placing the WashBar in configuration mode.

13. Hand Dryer: DC Motor 120v/60hz, 20 Amp.
14. Sensor Module: Water-conserving, durable sensor unit with adjustable timing turn-off delay and stationary object automatic timed cutoff, with diagnostic signal light.
 - a. Sensing Distance: **5 inches (127mm)**.
15. Power Supply: 120V 2A 12V DC adapter that plugs directly into the electrical outlet.

Specifier: Retain thermostatic mixing valve if required for Project.

16. Thermostatic Mixing Valve: Thermostatic mixing valve, ASSE 1070 listed, with stop/strainer/check valves, and flexible stainless steel connectors.

Specifier: The following touch-free faucets are style matched from Verge Design Series. Coordination is needed with section 10 28 00 - Toilet, Bath and Laundry Accessories where commodity soap dispensers are typically specified. Cross reference is required in section 10 28 00 when soap dispensers are to match the Verge Design Series of faucet specified in this section. For more information refer to Bradley CSI_3-Part_Spec_Guideline_Section 22 42 39 – COMMERCIAL SOAP DISPENSERS AND FAUCETS.
Delete article if not required.

2.7 SENSOR-OPERATED LAVATORY FAUCETS

- A. Deck Mounted Faucet – General:
1. Touch free dual sensor activation.
 2. Compliance and Certifications:
 - a. ADA ANSI/ICC A117.1, Citation 609.3.
 - b. ASME A112.18.1/CSA B125.1.

- c. NSF/ANSI 372 – Lead Free.
- d. NSF/ANSI 61.
- e. UL electrical components.
- f. cUPC.
- g. CE electrical components.
- 3. Vandal-resistant construction shall include concealed sensor package, durable finish, and anti-rotational gasket/washer.
- 4. In-line filter supplied with either mixing assembly or tempered line assembly to trap debris.
- 5. Operation: Dual sensors utilizing time of flight and diffuse reflective sensors.
 - a. Operating Water Pressure Range: 20 to 125 psi.
 - b. Faucet activates water flow only when user's hands enter the infrared detection zone.
 - c. Faucet turns off after user's hands are removed from the lavatory bowl area.
 - d. Eleven (11) second run time (with or without hands under sensor). Manually set run time using control module (4s, 11s, 15s, 30s, 60s, 180s with or without auto system rinse).
 - e. Sixty (60) second auto system rinse every 24 hours. Option for sanitary manual flush.

Specifier: Select either chrome finish or PVD finish. Delete chrome finish if not required.

- 6. Chrome Finish: "PC" Polished Chrome.

Specifier: Physical Vapor Deposition is an intricate, environmentally friendly finishing process that molecularly bonds the finish to the faucet, creating a very hard, durable surface that will not corrode, discolor, or tarnish. Delete PVD finishes if not required.

- 7. Physical Vapor Deposition (PVD) Finish: "BB" Brushed Black Stainless.
- 8. Physical Vapor Deposition (PVD) Finish: "BS" Brushed Stainless.
- 9. Physical Vapor Deposition (PVD) Finish: "BZ" Brushed Bronze.
- 10. Physical Vapor Deposition (PVD) Finish: "BR" Brushed Brass.
- 11. Physical Vapor Deposition (PVD) Finish: "BN" Brushed Nickel.

Specifier: Refined high arc design pairs with soap model 6-3100 and integrates seamlessly with Bradley lavatories. Touch-free, dual-sensor activation with time of flight and diffuse reflective sensors that work in tandem to detect and confirm the user's presence, eliminating false activations. Battery pack standard or optional AC adapter with battery back-up. Faucet shall feature chrome-plated cast brass construction with optional in-stock PVD finish. Low-flow laminar device options available to conserve water. Vandal-resistant construction includes concealed sensor package, vandal-resistant laminar flow device, durable PVD finish options, and anti-rotational locking nut. Delete if not required.

B. Electronic Lavatory Faucets:

- 1. Sensor-Operated, High-Arc Profile Metering Faucet with Infrared Control (FCT#____): Vandal-resistant accessible faucet meeting ASME A112.18.1/CSA B125. ADA/ANSI A117.1 compliant.
 - a. Basis of Design Manufacturer/Model: **Bradley Verge, Crestt Series, Model S53-3100.**
 - b. Body: Commercial solid cast brass.
 - c. Water Supply: [Tempered Line Assembly (Supply Hose and Shut-Off Included)][Navigator Thermostatic Mixing Assembly (Supply Hose and Shut-Off Included)].
 - d. Flow Control: [0.35 gpm (1.3 Lpm) Silicone Tip, multiple individual laminar flow streams][0.50 gpm (1.9 Lpm) Silicone Tip, multiple individual laminar flow streams].

Specifier: Delete if not required.

- e. Drain Strainer: Finish to match.

- f. Sensor Module: Water-conserving, vandal-resistant dual sensors utilizing time of flight and diffuse reflective sensors with timing turn-off delay and stationary object automatic timed cutoff.

Specifier: Delete power supply not required.

- g. Power Supply: Battery (standard)
h. Power Supply: 120VAC/6VDC, 50/60Hz plug-in transformer adapter with battery back-up. 4x AA batteries (included). Low battery indicator on spout.

Specifier: Splitter kit powers up to four faucets or combination of four faucets and soap dispensers.

- i. Power Supply: Provide power supply "splitter" for 2, 3 or 4 faucets as required. Provide 14 feet extension power cable as required.

Specifier: Refined, cylindrical design pairs with soap model 6-3300 and integrates seamlessly with Bradley lavatories. Touch-free, dual-sensor activation with time of flight and diffuse reflective sensors that work in tandem to detect and confirm the user's presence, eliminating false activations. Battery pack standard or optional AC adapter with battery back-up. Faucet shall feature chrome-plated cast brass construction with optional in-stock PVD finish. Low-flow laminar device options available to conserve water. Vandal-resistant construction includes concealed sensor package, vandal-resistant laminar flow device, durable PVD finish options, and anti-rotational locking nut. Delete if not required.

C. Electronic Lavatory Faucets:

1. Sensor-Operated, Tubular Design Metering Faucet with Infrared Control (FCT#____): Vandal-resistant accessible faucet meeting ASME A112.18.1/CSA B125. ADA/ANSI A117.1 compliant.
a. Basis of Design Manufacturer/Model: **Bradley Verge, Metro Series, Model S53-3300.**
b. Body: Commercial solid cast brass.
c. Water Supply: [Tempered Line Assembly (Supply Hose and Shut-Off Included)][Navigator Thermostatic Mixing Assembly (Supply Hose and Shut-Off Included)].
d. Flow Control: [0.35 gpm (1.3 Lpm) Silicone Tip, multiple individual laminar flow streams][0.50 gpm (1.9 Lpm) Silicone Tip, multiple individual laminar flow streams].

Specifier: Delete if not required.

- e. Drain Strainer: Finish to match.
f. Sensor Module: Water-conserving, vandal-resistant dual sensors utilizing time of flight and diffuse reflective sensors with timing turn-off delay and stationary object automatic timed cutoff.

Specifier: Delete power supply not required.

- g. Power Supply: Battery (standard)
h. Power Supply: 120VAC/6VDC, 50/60Hz plug-in transformer adapter with battery back-up. 4x AA batteries (included). Low battery indicator on spout.

Specifier: Splitter kit powers up to four faucets or combination of four faucets and soap dispensers.

- i. Power Supply: Provide power supply "splitter" for 2, 3 or 4 faucets as required. Provide 14 feet extension power cable as required.

Specifier: Sleek lines and curved-edge design pairs with soap model 6-3500 and integrates seamlessly with Bradley lavatories. Touch-free, dual-sensor activation with time of flight and diffuse reflective sensors that work in tandem to detect and confirm the user's presence, eliminating false activations. Battery pack standard or optional AC adapter with battery back-up. Faucet shall feature chrome-plated cast brass construction with optional in-stock PVD finish. Low-flow laminar device options available to conserve water. Vandal-resistant construction includes concealed sensor package, vandal-resistant laminar flow device, durable PVD finish options, and anti-rotational locking nut. Delete if not required.

D. Electronic Lavatory Faucets:

1. Sensor-Operated, Tubular Design Metering Faucet with Infrared Control (**FCT#___**): Vandal- resistant accessible faucet meeting ASME A112.18.1/CSA B125. ADA/ANSI A117.1 compliant.
 - a. Basis of Design Manufacturer/Model: **Bradley Verge, Linea Series, Model S53-3500.**
 - b. Body: Commercial solid cast brass.
 - c. Water Supply: [Tempered Line Assembly (Supply Hose and Shut-Off Included)][Navigator Thermostatic Mixing Assembly (Supply Hose and Shut-Off Included)].
 - d. Flow Control: [0.35 gpm (1.3 Lpm) Silicone Tip, multiple individual laminar flow streams][0.50 gpm (1.9 Lpm) Silicone Tip, multiple individual laminar flow streams].

Specifier: Delete if not required.

- e. Drain Strainer: Finish to match.
- f. Sensor Module: Water-conserving, vandal-resistant dual sensors utilizing time of flight and diffuse reflective sensors with timing turn-off delay and stationary object automatic timed cutoff.

Specifier: Delete power supply not required.

- g. Power Supply: Battery (standard)
- h. Power Supply: 120VAC/6VDC, 50/60Hz plug-in transformer adapter with battery back-up. 4x AA batteries (included). Low battery indicator on spout.

Specifier: Splitter kit powers up to four faucets or combination of four faucets and soap dispensers.

- i. Power Supply: Provide power supply "splitter" for 2, 3 or 4 faucets as required. Provide 14 feet extension power cable as required.

Specifier: Sleek design pairs with soap model 6-3700 and integrates seamlessly with Bradley lavatories. Touch-free, dual-sensor activation with time of flight and diffuse reflective sensors that work in tandem to detect and confirm the user's presence, eliminating false activations. Battery pack standard or optional AC adapter with battery back-up. Faucet shall feature chrome-plated cast brass construction with optional in-stock PVD finish. Low-flow laminar device options available to conserve water. Vandal-resistant construction includes concealed sensor package, vandal-resistant laminar flow device, durable PVD finish options, and anti-rotational locking nut. Delete if not required.

E. Electronic Lavatory Faucets:

1. Sensor-Operated, Tubular Design Metering Faucet with Infrared Control (**FCT#___**): Vandal- resistant accessible faucet meeting ASME A112.18.1/CSA B125. ADA/ANSI A117.1 compliant.
 - a. Basis of Design Manufacturer/Model: **Bradley Verge, Zen Series, Model S53-3700.**
 - b. Body: Commercial solid cast brass.
 - c. Water Supply: [Tempered Line Assembly (Supply Hose and Shut-Off Included)][Navigator Thermostatic Mixing Assembly (Supply Hose and Shut-Off Included)].
 - d. Flow Control: [0.35 gpm (1.3 Lpm) Silicone Tip, multiple individual laminar flow streams][0.50 gpm (1.9 Lpm) Silicone Tip, multiple individual laminar flow streams].

Specifier: Delete if not required.

- e. Drain Strainer: Finish to match.
- f. Sensor Module: Water-conserving, vandal-resistant dual sensors utilizing time of flight and diffuse reflective sensors with timing turn-off delay and stationary object automatic timed cutoff.

Specifier: Delete power supply not required.

- g. Power Supply: Battery (standard)
- h. Power Supply: 120VAC/6VDC, 50/60Hz plug-in transformer adapter with battery back-up. 4x AA batteries (included). Low battery indicator on spout.

Specifier: Splitter kit powers up to four faucets or combination of four faucets and soap dispensers.

- i. Power Supply: Provide power supply "splitter" for 2, 3 or 4 faucets as required. Provide 14 feet extension power cable as required.

Specifier: This article specified touch-free soap dispensers that are style matched from several design series. Coordination is needed with section 10 28 00 - Toilet, Bath and Laundry Accessories where commodity soap dispensers are typically specified. Cross reference is required in section 10 28 00 when soap dispensers are specified in this section. For more information refer to Bradley CSI_3-Part_Spec_Guideline_Section 22 42 39 – COMMERCIAL SOAP DISPENSERS AND FAUCETS. Delete soap dispensers if not required.

2.8 SENSOR-OPERATED SOAP DISPENSERS

A. Deck Mounted Soap Dispenser – General:

1. Touch free infrared sensor-operated.
2. Multi-station system shall supply up to six soap dispensers.
3. Compliance and Certifications:
 - a. ADA / ICC ANSI A117.1, Citation 609.4.
 - b. UL electrical components.
 - c. CE electrical components.
4. Vandal-resistant construction shall include concealed sensor package, durable finish, and anti-rotational gasket/washer.

Specifier: Select either chrome finish or PVD finish. Delete chrome finish if not required.

5. Chrome Finish: "PC" Polished Chrome.

Specifier: Physical Vapor Deposition is an intricate, environmentally friendly finishing process that molecularly bonds the finish to the faucet, creating a very hard, durable surface that will not corrode, discolor, or tarnish. Delete PVD finishes if not required.

6. Physical Vapor Deposition (PVD) Finish: "BB" Brushed Black Stainless.
7. Physical Vapor Deposition (PVD) Finish: "BS" Brushed Stainless.
8. Physical Vapor Deposition (PVD) Finish: "BZ" Brushed Bronze.
9. Physical Vapor Deposition (PVD) Finish: "BR" Brushed Brass.
10. Physical Vapor Deposition (PVD) Finish: "BN" Brushed Nickel.

Specifier: Refined high arc design pairs with faucet model S53-3100 and integrates seamlessly with Bradley lavatories. The dispenser is available with an individual or multi-feed top-fill tank that is compatible with bulk foam or liquid soap. The multi-feed station system supplies soap to up to 6 soap dispensers. Activation through a touch-free infrared sensor that pairs seamlessly with Bradley's faucet dual sensor technology to eliminate false activations and maximize battery life. Dispenser shall feature chrome-plated cast brass construction with optional in-stock PVD finish. Vandal-resistant construction includes concealed sensor package, durable PVD finish options, and anti-rotational gasket/washer. Delete if not required.

- B. Sensored Soap Dispenser (**SD#** ____): Deck-mounted, sensor-operated, cast brass, with LED battery and soap level indicators, [with battery box and batteries. **70.5 oz (2080 mL)** capacity bottle.][with single dispenser 120VAC powerpack. **70.5 oz (2080 mL)** capacity bottle.][with maximum of 6 dispenser 120VAC powerpack. Multi-feed Tank: **166.5 oz (5026 mL)**.]
 1. Basis of Design Manufacturer/Model: **Bradley Verge Deck-Mounted Soap Dispenser, Crestt Series, Model 6-3100.**

Specifier: Refined, cylindrical design pairs with faucet model S53-3300 and integrates seamlessly with Bradley lavatories. The dispenser is available with an individual or multi-feed top-fill tank that is compatible with bulk foam or liquid soap. The multi-feed station system supplies soap to up to 6 soap dispensers. Activation through a touch-free infrared sensor that pairs seamlessly with Bradley's faucet dual sensor technology to eliminate false activations and maximize battery life. Dispenser shall feature chrome-plated cast brass construction with optional in-stock PVD finish. Vandal-resistant construction

includes concealed sensor package, durable PVD finish options, and anti-rotational gasket/washer. Delete if not required.

- C. Sensored Soap Dispenser (**SD# ____**): Deck-mounted, sensor-operated, cast brass, with LED battery and soap level indicators, [with battery box and batteries. 70.5 oz (2080 mL) capacity bottle.] [with single dispenser 120VAC powerpack. 70.5 oz (2080 mL) capacity bottle.] [with maximum of 6 dispenser 120VAC powerpack. Multi-feed Tank: 166.5 oz (5026 mL).]
1. Basis of Design Manufacturer/Model: **Bradley Verge Deck-Mounted Soap Dispenser, Metro Series, Model 6-3300.**

Specifier: Sleek lines and curved edges design pairs with faucet model S53-3500 and integrates seamlessly with Bradley lavatories. The dispenser is available with an individual or multi-feed top-fill tank that is compatible with bulk foam or liquid soap. The multi-feed station system supplies soap to up to 6 soap dispensers. Activation through a touch-free infrared sensor that pairs seamlessly with Bradley's faucet dual sensor technology to eliminate false activations and maximize battery life. Dispenser shall feature chrome-plated cast brass construction with optional in-stock PVD finish. Vandal-resistant construction includes concealed sensor package, durable PVD finish options, and anti-rotational gasket/washer. Delete if not required.

- D. Sensored Soap Dispenser (**SD# ____**): Deck-mounted, sensor-operated, cast brass, with LED battery and soap level indicators, [with battery box and batteries. 70.5 oz (2080 mL) capacity bottle.] [with single dispenser 120VAC powerpack. 70.5 oz (2080 mL) capacity bottle.] [with maximum of 6 dispenser 120VAC powerpack. Multi-feed Tank: 166.5 oz (5026 mL).]
1. Basis of Design Manufacturer/Model: **Bradley Verge Deck-mounted Soap Dispenser, Linea Series, Model 6-3500.**

Specifier: Sleek design pairs with faucet model S53-3700 and integrates seamlessly with Bradley lavatories. The dispenser is available with an individual or multi-feed top-fill tank that is compatible with bulk foam or liquid soap. The multi-feed station system supplies soap to up to 6 soap dispensers. Activation through a touch-free infrared sensor that pairs seamlessly with Bradley's faucet dual sensor technology to eliminate false activations and maximize battery life. Dispenser shall feature chrome-plated cast brass construction with optional in-stock PVD finish. Vandal-resistant construction includes concealed sensor package, durable PVD finish options, and anti-rotational gasket/washer. Delete if not required.

- E. Sensored Soap Dispenser (**SD# ____**): Deck-mounted, sensor-operated, cast bronze, with LED battery and soap level indicators, [with battery box and batteries. 70.5 oz (2080 mL) capacity bottle.] [with single dispenser 120VAC powerpack. 70.5 oz (2080 mL) capacity bottle.] [with maximum of 6 dispenser 120VAC powerpack. Multi-feed Tank: 166.5 oz (5026 mL).]
1. Basis of Design Manufacturer/Model: **Bradley Verge Deck-Mounted Soap Dispenser, Zen Series, Model 6-3700.**

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine conditions and verify opening measurements prior to commencing installation. Proceed with installation once conditions meet requirements.

3.2 INSTALLATION

Specifier: Indicate on Drawings those sinks that are required to be accessible. Confirm rim height with AHJ. At least one basin shall meet dimensional requirements and have proper reach, knee, and toe clearance.

Refer to Bradley Product Data Sheets and Installation Instructions for accessibility requirements and dimensions.

Delete project requirement for accessibility heights for either US or Canadian not required.

- A. Install accessible sinks at juvenile/handicapped/elderly and enhanced reach mounting heights according to ICC/ANSI A117.1.
- B. Install accessible sinks at juvenile/handicapped/elderly mounting heights according to Canadian Authority Having Jurisdiction.
- C. Support and fasten countertops in accordance with manufacturer's written recommendations and approved shop drawings.
- D. Install countertops level to a tolerance of **1/8 inch in 8 feet (3 mm in 2.4 m)**.

Specifier: Retain paragraph below if specifying field-installed backsplashes or endsplashes.

- E. Install backsplashes and endsplashes to comply with manufacturer's written instructions for adhesives, sealers, fabrication, and finishing.
- F. Assemble fixtures, accessories, and associated fittings and trim in accordance with manufacturer's instructions.
- G. Install fixtures level, plumb, and in accordance with manufacturer's rough-in instructions.
- H. Install water supply piping. Provide stop on each supply in readily-serviceable location. Fasten supply piping to supports or substrate.
- I. Install trap and waste piping to each fixture.
- J. Install escutcheons at exposed piping penetrations in finished locations and within cabinets.
- K. Seal joints between fixtures and walls, floors, and countertops with mildew-resistant silicone sealant meeting requirements in Division 07 Section "Joint Sealants."
- L. Install faucets, water supplies, and waste connections in accordance with requirements of applicable Division 22 plumbing section.

Specifier: Retain paragraph below if required for Project.

- M. Install deck-mounted soap dispenser in accordance with Section 102800 "Toilet Accessories."

3.3 CLEANING AND PROTECTION

- A. Repair or replace defective work, including damaged fixtures and components.
- B. At time of Substantial Completion:
 - 1. Clean unit surfaces per manufacturer's care instructions, test fixtures, and leave in ready-to-use condition.
 - 2. Install new batteries in battery-operated devices.
 - 3. Fill soap dispensers.
 - 4. Turn over keys, tools, maintenance instructions, and maintenance stock to Owner.
- C. Protect units with water-resistant temporary covering. Do not allow temporary use of plumbing fixtures unless approved in writing by Architect. Remove protection at Substantial Completion and dispose.

3.4 TESTING AND ADJUSTING

- A. Set field-adjustable temperature set points of temperature-actuated water mixing valves. Adjust set point within allowable temperature range.
- B. Test and adjust installation.

END OF SECTION