

BRADLEY VERGE™ ENGINEERED QUARTZ LAVATORIES

Bradley Corporation, the industry's leading manufacturer of premium quality commercial lavatories, presents Verge engineered quartz lavatories. Verge lavatories marry institutional durability with graceful curves and soft radius edges. Bradley's Evero engineered quartz material fuses the elegance of quartz with the durability of granite and the luminance of exotic materials, bringing a new sophistication to commercial washroom design. It is the first and only engineered quartz material that can be molded into round and curved shapes, in a variety of colors. Evero is made from a blend of acrylic modified bio-based polyester resin, natural quartz, granite, and other exotic minerals. It is resistant to chemicals, stains, burns, and impact. Evero is GREENGUARD certified as a low-emitting material.

Verge lavatories may be equipped with a variety of faucets and soap dispensers, including Bradley's graceful Aerada line of water-saving fixtures. Verge lavatories are perfect for commercial lavatories, movie theaters, auditoriums and the executive washroom.

Architects, engineers, and specifiers look to Bradley Corporation for innovation in design and leadership in the development of environmentally conscious products. Bradley Corporation, a member of the U.S. Green Building Council, the Wisconsin Green Building Alliance, has several products earning certification by GREENGUARD Environmental Institute, and GREENGUARD Children and Schools program.

Bradley eases the specifying process with a seasoned customer service staff and a range of helpful information tools on an advanced website. For example, easy-to-use sizing software, available on Bradley's website, allows engineers to quickly determine the correct size Thermostatic Mixing Valves. Bradley is the industry leader in the manufacture of premium quality commercial plumbing fixtures, valves, TMVs and washroom accessories that appear in the following CSI MasterFormat 2004™ Sections:

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 22 11 19 – 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 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

Contact Bradley Corporation, Menomonee Falls, WI 53051; Phone: 800-BRADLEY ((800)272-3539) Fax: (262)251-5817, or visit the Bradley web site www.bradleycorp.com. Bradley Corporation is an AIA/CES registered provider currently offering five programs earning one (1) HS&W Learning Unit each; several qualify for sustainable design (SD) credit.

Mills®, Aerix®, Lenox®, Evero®, Express®, Frequency®, Advocate®, Verge® and WashBar® are registered trademarks of Bradley Corporation.

Omni Deck™, Sentry™, Bradmate™ and Halo are trademarks of Bradley Corporation.

GreenSpec® is a registered trademark of BuildingGreen, LLC

GREENGUARD Certification ProgramSM is a service mark of GREENGUARD Environmental Institute.

SECTION 22 42 16.03

COMMERCIAL LAVATORIES AND FAUCETS

PART 1 - GENERAL

1.1 SECTION INCLUDES

- A. Engineered stone commercial lavatory units.

Specifier: Edit below to suit Project.

- B. Lavatory faucets.
C. Soap dispensers.

1.2 RELATED SECTIONS

Specifier: Delete any paragraphs below that do not apply to this project.

Specifier: Bradley 10 28 13.13 – Commercial Toilet Accessories (Verge).

- A. Division 10 Section "Toilet, Bath and Laundry Accessories" for matching design soap dispensers.

Specifier: Retain paragraphs below that apply to Project.

- B. Division 22 Section "Domestic Water Piping Specialties" for thermostatic mixing valves.

Specifier: Bradley 22 42 16.01 – Commercial Lavatories and Faucets (Express Terreon solid surface)

Specifier: Bradley 22 42 16.04 – Commercial Lavatories and Faucets (Omnideck Terreon solid surface)

- C. Division 22 Section "Commercial Lavatories and Faucets" for quartz and solid surface wash basins.
D. Division 22 Section "Commercial Lavatories and Faucets" for single- and multiple- station lavatory systems.
E. Division 22 Section "Commercial Lavatories" for commercial lavatory units with modular integrated accessories.
F. Division 22 Section "Commercial Lavatory Decks and Faucets" for single- and multiple- station lavatory decks.

Specifier: Bradley 22 42 39 – Commercial Soap Dispensers and Faucets (Verge).

- G. Division 22 Section "Domestic Water Piping Specialties" for thermostatic mixing valves.

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

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

Specifier: Bradley Section 22 45 00 - Emergency Plumbing Fixtures (Halo□ Emergency eyewash fixtures and showers)

- I. Division 22 Section "Emergency Plumbing Fixtures" for emergency fixtures.

Specifier: Bradley Section 22 46 00 - Security Plumbing Fixtures

- J. Division 22 Section "Security Plumbing Fixtures" for security lavatories.

1.3 REFERENCES

Specifier: If retaining References Article in Project specification, edit 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. ASTM International (ASTM):
 - 1. ASTM B 117 - Standard Practice for Operating Salt Spray (Fog) Apparatus.
 - 2. ASTM C 531 - Standard Test Method for Linear Shrinkage and Coefficient of Thermal Expansion of Chemical-Resistant Mortars, Grouts, Monolithic Surfacing, and Polymer Concretes.
 - 3. ASTM D 570 - Standard Test Method for Water Absorption of Plastics.
 - 4. ASTM D 638 - Standard Test Method for Tensile Properties of Plastics.
 - 5. ASTM D 695 - Standard Test Method for Compressive Properties of Rigid Plastics.
 - 6. ASTM D 790 - Standard Test Methods for Flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials.
 - 7. ASTM D 792 - Standard Test Methods for Density and Specific Gravity (Relative Density) of Plastics by Displacement.
 - 8. ASTM D 6329 - Standard Guide for Developing Methodology for Evaluating the Ability of Indoor Materials to Support Microbial Growth Using Static Environmental Chambers.
 - 9. ASTM E 84 - Standard Test Method for Surface Burning Characteristics of Building Materials.
- C. Canadian Standards Association (CSA):
 - 1. CSA B125 - Plumbing fittings.
 - 2. CSA B45.5/IAPMO Z124 - Plastic Plumbing Fixtures.
 - 3. CSA B45.8/IAPMO Z403 - Terrazzo, Concrete, Composite Stone, and Natural Stone Plumbing Fixtures.

Specifier: 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.

- D. GREENGUARD Environmental Institute (GREENGUARD):
 - 1. GREENGUARD certified low emitting products.
- E. 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).
- F. International Code Council (ICC):
 - 1. ICC/ANSI A117.1 – Accessible and Usable Buildings and Facilities.
 - a. Citations 306, 308, 309.4, 606.4, 606.5.
- G. National Fire Protection Association (NFPA):
 - 1. NFPA 70 – National Electrical Code.
- H. NSF International:
 - 1. NSF/ANSI 372 - Lead-Free content requirement.
- I. State of Texas:
 - 1. Texas Accessibility Standards (TAS).
- J. 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.
- K. United States Green Building Council (USGBC):
 - 1. LEED Green Building Rating System (LEED).
- L. 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: Prepared by manufacturer. Include mounting and rough-in requirements and power, signal, and control wiring diagrams.

Specifier: Bradley Corporation's Evero engineered quartz material contains 25-percent pre-consumer recycled content and 8-percent rapidly renewable material. 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.

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

2. Product data for Credit MR 4: Indicate percentages by weight of postconsumer and preconsumer recycled content, and product cost.

1.5 INFORMATION SUBMITTALS

- A. Sample warranty.
- B. Manufacturer's certificates.
- C. Indoor environmental quality certificates.

1.6 MAINTENANCE SUBMITTALS

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

1.7 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Approved manufacturer listed in this section, with minimum 5 years experience in the manufacture of plumbing fixtures. Manufacturers seeking approval must 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 not less than 15 days prior to bid date.

- B. Source Limitations: Obtain each type of plumbing fixture and compatible accessories through one source from a single approved manufacturer.

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.

- C. 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.

- D. 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. 606.5 Exposed Pipes & Surfaces with access panels.

Specifier: These ADA \ ANSI 117.1 citations are valid when Bradley lavatory systems use Bradley Faucet and soap systems. Delete if not required.

4. 309.4 Operation.
5. 606.4 Faucets.

- E. Water Flow and Consumption Requirements: Comply with EPACT.

- F. Drinking Water Standard: Certified to NSF/ANSI 372.

- G. Electrical Components: Listed and labeled per NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction.

- H. Comply with Public Law 102-486, Energy Policy Act.

Specifier: Bradley's Verge lavatory systems in Evero engineered quartz material exceed LEED for Schools IEQ requirements as certified by GREENGUARD.

- I. Indoor Environmental Quality Certification: Provide certificate indicated that products 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 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. Engineered natural quartz material: 10 years.
2. Soap Dispenser: Three years.
3. Faucets: Three years.
4. WashBar: 1 year (applies to Verge with WashBar Technology – LVQ-Series only)

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: Bradley's Verge lavatories are formed from Bradley's unique Evero engineered natural quartz material, noted for its elegant surface appearance and resistance to chemicals, stains, burns and impacts. For additional product information access the mindful MATERIAL (mM) cloud based resource. Surface damage can be easily repaired with everyday cleansers or fine grit abrasives. Variations in the natural stone color, pattern, size, shape, and shade are inherent. Due to these unique characteristics, please expect subtle shade variations when units are installed adjacent to each other. Delete lavatory deck material not required.

- A. Lavatory Deck and Bowl Material: Fabricate lavatory units from a molded **polished** engineered stone material consisting of natural quartz, granite, and other minerals in a matrix of thermoset bio-based polyester resin, listed by IAPMO R&T to IGC 156 and the requirements of CSA B45.5/IAPMO Z124 and ASME A112.18.1/CSA B125.1, with the following minimum properties:

Specifier: Delete product series not required.

1. [Basis of Design Product: **Bradley, Evero Classic - Geo Series.**]
 2. [Basis of Design Product: **Bradley, Evero Classic - Pearl Series.**]
 3. Surface Burning Characteristics: Smoke developed, less than 450; flame spread, less than 25, per ASTM E 84.
 4. Flexural Strength: **3178 psi (21.9 MPa)**, minimum, per ASTM D 790.
 5. Compressive Strength: **12,645 psi (79 MPa)**, minimum, per ASTM C 170.
 6. Moisture Absorption: 0.1125 percent in 24 hours, per ASTM D 570.
 7. Hardness: 6 – 7 Mohs Scale, per ASTM D 785.
 8. Thickness: **1/2 inch (12.7 mm)**.
- B. Lavatory Deck and Bowl Material: Fabricate lavatory units from a molded **matte** engineered stone material consisting of a unique mixture of extra fine grade quartz in a matrix of thermoset bio-based polyester resin, listed by IAPMO R&T to IGC 156 and the requirements of CSA B45.5/IAPMO Z124 and ASME A112.18.1/CSA B125.1 and CSA B45.8/IAPMO Z403, with the following minimum properties:
1. Basis of Design Product: **Bradley, Evero Matte - Mason Series.**
 2. Surface Burning Characteristics: Smoke developed, less than 450; flame spread, less than 75, per ASTM E 84.
 3. Flexural Strength: **5,600 psi (38.6 MPa)**, minimum, per ASTM D 790.
 4. Compressive Strength: **21,370 psi (147.3 MPa)**, minimum, per ASTM C 170.
 5. Moisture Absorption: 0.04 percent in 24 hours, per ASTM D 570.
 6. Hardness: 5 – 7 Mohs Scale, per ASTM D 785.
 7. Thickness: **1/2 inch (12.7 mm)**.

2.3 MULTI-STATION LAVATORY UNITS

Specifier:

Choose faucet from 0.35 gpm or 0.50 gpm Verge Faucets – Crestt, Metro, Linea, or Zen Series.

Choose soap dispensers from the Verge Deck-Mounted Soap Dispensers – Crestt, Metro, Linea, or Zen Series.

Due to space limitations within the access panel, the Verge deck-mounted soap dispensers are not available with LVRD1.

WashBar Duo WBD1 not available for this lavatory model.

Bradley, Evero Matte material not available for this lavatory.

Also available are 4 inches centerset and centershank faucet drillings for faucets by others.

- A. Lavatory: Wall-mounted rectilinear, level-surface lavatory deck with sleek edges, molded from engineered stone material to create a seamless and integral elongated basin, with stainless steel enclosed pedestal cabinet:
1. Basis of Design Manufacturer/Model: **Bradley, Verge Lavatory System, Model LVRD.**
 2. Number of Wash Stations: [1][2][3].
 3. Unit Length: [30 inches (762 mm)][60 inches (1524 mm)][90 inches (2286 mm)].
 4. Faucet: [Included][None].
 5. Soap Dispenser: [Included][None].
 6. Water Supply: [Single tempered line][Thermostatic mixing valve assembly].
 7. Material Type: [EC Evero Classic – Geo Series][EC Evero Classic – Pearl Series].
 8. Color: As selected by Architect from manufacturer's full line.
 9. Rim Mounting Height: [33.5 inch (859 mm)][31.5 inch (800 mm)][30.5 inch (775 mm)][29.5 inch (749 mm)][As indicated].

Specifier:

Choose faucet from 0.35 gpm or 0.50 gpm Verge Faucets – Crestt, Metro, Linea, or Zen Series.

Choose soap dispensers from the Verge Deck-Mounted Soap Dispensers – Crestt, Metro, Linea, or Zen Series.

Due to space limitations within the access panel, the Verge deck-mounted soap dispensers are not available with LVGD1.

Bradley, Evero Matte material not available for this lavatory.

WashBar Duo WBD1 not available for this lavatory model.

Also available are 4 inches centerset and centershank faucet drillings for faucets by others.

- B. Lavatory: Wall-mounted forward curved lavatory deck with rounded edges, molded from engineered stone material to create a seamless and integral elongated basin, with stainless steel enclosed pedestal cabinet:
1. Basis of Design Manufacturer/Model: **Bradley, Verge Lavatory System, Model LVGD.**
 2. Number of Wash Stations: [1][2][3].
 3. Unit Length: [30 inches (762 mm)][60 inches (1524 mm)][90 inches (2286 mm)].
 4. Faucet: [Included][None].
 5. Soap Dispenser: [Included][None].
 6. Water Supply: [Single tempered line][Thermostatic mixing valve assembly].
 7. Material Type: [EC Evero Classic – Geo Series][EC Evero Classic – Pearl Series].
 8. Color: As selected by Architect from manufacturer's full line.
 9. Rim Mounting Height: [33.5 inches (859 mm)][31.5 inches (800 mm)][30.5 inches (775 mm)][29.5 inches (749 mm)][As indicated].

Specifier:

Choose faucet from 0.35 gpm or 0.50 gpm Verge Faucets – Crestt, Metro, Linea, or Zen Series.

Choose soap dispensers from the Verge Deck-Mounted Soap Dispensers – Crestt, Metro, Linea, or Zen Series.

WashBar Duo WBD1 not available for this lavatory model.

Bradley, Evero Matte material not available for this lavatory.

Also available are 4 inches centerset and centershank faucet drillings for faucets by others.

- C. Lavatory: Wall-mounted rimless lavatory deck with sleek edges, molded from engineered stone material to create a seamless and integral elongated basin, with stainless steel enclosed pedestal cabinet:
1. Basis of Design Manufacturer/Model: **Bradley, Verge Lavatory System, Model LVLD.**
 2. Number of Wash Stations: [1][2][3].
 3. Unit Length: [30 inches (762 mm)][60 inches (1524 mm)][90 inches (2286 mm)].
 4. Faucet: [Included][None].
 5. Soap Dispenser: [Included][None].
 6. Water Supply: [Single tempered line][Thermostatic mixing valve assembly].
 7. Material Type: [EC Evero Classic – Geo Series][EC Evero Classic – Pearl Series].
 8. Color: As selected by Architect from manufacturer's full line.
 9. Rim Mounting Height: [33.88 inches (860.55 mm)][30.88 inches (784.35 mm)][As indicated].

Specifier:

Choose faucet from 0.35 gpm or 0.50 gpm Verge Faucets – Crestt, Metro, Linea, or Zen Series.

Choose soap dispensers from the Verge Deck-Mounted Soap Dispensers – Crestt, Metro, Linea, or Zen Series.

WashBar Duo WBD1 not available for this lavatory model.

Also available are 4 inches centerset and centershank faucet drillings for faucets by others.

- D. Lavatory: Wall-mounted open concept design with gentle curves that create personal hand washing space, molded from engineered stone material to create a seamless and integral elongated basin. Unit includes individual waste and assembly connections to wall with stops and heavy gauge stainless steel mounting bracket that is concealed by a decorative stainless steel trap enclosure:
1. Basis of Design Manufacturer/Model: **Bradley, Verge Lavatory System, Model LVSD.**
 2. Number of Wash Stations: [1][2][3].
 3. Unit Length: [30 inches (762 mm)][60 inches (1524 mm)][90 inches (2286 mm)].
 4. Material Type: [EC Evero Classic – Geo Series][EC Evero Classic – Pearl Series][EM Evero Matte – Matte Finish].
 5. Color: As selected by Architect from manufacturer's full line.
 6. Faucet: [Included][None].
 7. Liquid Soap Dispenser Drilling: [Shared soap drilling][Personal soap drilling].
 8. Soap Dispenser: [Included][None].
 9. Water Supply: [Single tempered line assembly][Thermostatic mixing valve assembly].
 10. Rim Mounting Height: [30.5 inches (775 mm)][32.5 inches (825 mm)][33.5 inches (851 mm)][As indicated].

Specifier:

Choose from 0.35 gpm or 0.5 gpm, WashBar Duo WBD1 with soap dispenser and faucet in a single piece casting.

Choose faucet from 0.35 gpm or 0.50 gpm Verge Faucets – Crestt, Metro, Linea, or Zen Series.

Choose soap dispensers from the Verge Deck-Mounted Soap Dispensers – Crestt, Metro, Linea, or Zen Series.

Also available are 4" centerset and centershank faucet drillings for faucets by others.

- E. Lavatory: Wall-mounted linear design with angled basin and stainless steel drain cap to conceal the trench drain, molded from engineered stone material to create a seamless and integral elongated basin. Unit includes combined waste and assembly connections to wall with stops

and heavy gauge stainless steel wall mounting bracket that is concealed by a decorative swing down stainless steel access panel:

1. Basis of Design Manufacturer/Model: **Bradley, Verge Lavatory System, Model LVAD.**
2. Number of Wash Stations: [1][2][3].
3. Unit Length: [30 inches (762 mm)][60 inches (1524 mm)][90 inches (2286 mm)].
4. Material Type: [EC Evero Classic – Geo Series][EC Evero Classic – Pearl Series][EM Evero Matte – Matte Finish].
5. Color: As selected by Architect from manufacturer's full line.
6. Faucet: [Included][None].
7. Liquid Soap Dispenser Drilling: [Shared soap drilling][Personal soap drilling].
8. Soap Dispenser: [Included][None].
9. Water Supply: [Single tempered line assembly][Thermostatic mixing valve assembly].
10. Trench Drain [Cap: Stainless Steel Trench Drain Cap][Slotted Stainless Steel Trench Drain Cap with Vandal Resistant Screws].
11. Rim Mounting Height: [30.5 inches (775 mm)][32.5 inches (825 mm)][33.5 inches (851 mm)][As indicated].

Specifier:

Choose from 0.35 gpm or 0.5 gpm, WashBar Duo WBD1 with soap dispenser and faucet in a single piece casting.

Verge deck-mounted soap dispensers and Verge faucets are not available with LVQD1.

WashBar Duo WBD1 not available for this lavatory model.

- F. Lavatory: Wall-mounted linear design with angled basin and stainless steel drain cap to conceal the trench drain, molded from engineered stone material to create a seamless and integral elongated basin. Basin and drain designed to work in harmony with WashBar technology to evacuate water and dissipate airflow to prevent splashing on the user or floor. Unit includes combined waste and assembly connections to wall with stops and heavy gauge stainless steel wall mounting bracket that is concealed by a decorative swing down stainless steel access panel:

1. Basis of Design Manufacturer/Model: **Bradley, Verge Lavatory System, Model LVQD.**
2. Number of Wash Stations: [1][2][3].
3. Unit Length: [30 inches (762 mm)][60 inches (1524 mm)][90 inches (2286 mm)].
4. Material Type: [EC Evero Classic – Geo Series][EC Evero Classic – Pearl Series][EM Evero Matte – Matte Finish].
5. Color: As selected by Architect from manufacturer's full line.
6. Water Supply: [Single tempered line assembly][Thermostatic mixing valve assembly].
7. Faucet: [Included][None].
8. Soap Dispenser: [Included][None].
9. Trench Drain [Cap: Stainless Steel Trench Drain Cap][Slotted Stainless Steel Trench Drain Cap with Vandal Resistant Screws].
10. Rim Mounting Height: [30.5 inches (775 mm)][32.5 inches (825 mm)][33.5 inches (851 mm)][As indicated].

2.4 SENSOR-OPERATED WASHBAR

Specifier: Retain descriptions of required WashBar WB1; if more than one WashBar is required, insert WashBar designation in paragraph below and use WashBar designation in Lavatory Deck Article above.

The WashBar WB1 and WB2 All-In-One listed below are available for the Verge LVQ-Series Lavatory System only. Delete if not required.

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, 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 (1.33 Lpm) PCA Silicone Tip, Multiple Individual Laminar Flow Streams.][0.50 gpm (1.9 Lpm) PCA Silicone Tip, Multiple Individual Laminar Flow Streams.][None.]
12. Soap Type: [Foam Soap Dispenser][Liquid Soap Dispenser]. Soap system accommodates up to a 1 gallon container.
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 is required, insert WashBar designation in paragraph below and use WashBar designation in Lavatory Deck Article above. The WashBar WBD1 Duo is available with the Verge® LVAD basin only. 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, 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 (1.33 Lpm) PCA Silicone Tip, Multiple Individual Laminar Flow Streams.][0.50 gpm (1.9 Lpm) PCA Silicone Tip, Multiple Individual Laminar Flow Streams.][None.]
12. Soap Type: [Foam Soap Dispenser][Liquid Soap Dispenser]. Soap system accommodates up to a 1 gallon 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 is required, insert WashBar designation in paragraph below and use WashBar designation in Lavatory Deck Article above. The WashBar WB2 All-In-One listed below is available for the Verge LVQ-Series Lavatory System only. Delete if not required.

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, 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 (1.33 Lpm)]** PCA Silicone Tip, Multiple Individual Laminar Flow Streams. **[[0.50 gpm (1.9 Lpm)]** PCA Silicone Tip, Multiple Individual Laminar Flow Streams. **[[None.]]**
12. Soap Type: **[Foam Soap Dispenser]** **[[Liquid Soap Dispenser]]**. Soap system accommodates up to a 1 gallon container.
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: This article specified touch-free faucets that are style matched with soap dispensers from several design series. Coordination is needed with section 10 28 00 - Toilet, Bath and Laundry Accessories and/or section 22 42 39 - Commercial Soap Dispensers and Faucets where commodity soap dispensers are typically specified. Cross reference is required in section 10 28 00 and/or 22 42 39 when style matched faucets are specified in this section. Delete article if faucets are specified in 22 42 39.

2.5 SENSOR-OPERATED LAVATORY FAUCETS

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

- A. Deck Mounted Faucet – General:
 1. Basis of Design Manufacturer/Model: **Bradley Verge**
 2. Touch free dual sensor activation.
 3. 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. cUPC.
 - f. CE electrical components.
 4. Vandal-resistant construction shall include concealed sensor package, durable finish, and rotational resistant gasket/washer.
 5. In-line filter supplied with either mixing assembly or tempered line assembly to trap debris.
 6. 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.

7. 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.

8. Physical Vapor Deposition (PVD) Finish: "BB" Brushed Black Stainless.
9. Physical Vapor Deposition (PVD) Finish: "BS" Brushed Stainless.
10. Physical Vapor Deposition (PVD) Finish: "BZ" Brushed Bronze.
11. Physical Vapor Deposition (PVD) Finish: "BR" Brushed Brass.
12. 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 Type: [0.35 gpm (1.3 Lpm) Silicone Tip, multiple individual laminar flow streams][0.5 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 (4.3 m) 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 Type: [0.35 gpm (1.3 Lpm) Silicone Tip, multiple individual laminar flow streams][0.5 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 (4.3 m) 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 Type: [0.35 gpm (1.3 Lpm) Silicone Tip, multiple individual laminar flow streams][0.5 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 (4.3 m) 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 Type: [0.35 gpm (1.3 Lpm) Silicone Tip, multiple individual laminar flow streams][0.5 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 (4.3 m) extension power cable as required.

Specifier: Delete if not required.

2.6 SENSORED SOAP DISPENSER

- A. Deck-mounted, sensor-operated **SD#**____: Chrome-plated plastic, with LED battery and soap level indicators, [with battery box and batteries][with single dispenser 120VAC power-pack][with 4 dispenser 120VAC powerpack], [27 oz (798 mL) capacity bottle][1000 shot soap].
1. Basis of Design Manufacturer/Model: **Bradley, Model 6315-KT0000.**

Specifier: This article specified touch-free soap dispensers that are style matched with faucets from several design series. Coordination is needed with section 10 28 00 - Toilet, Bath and Laundry Accessories and/or section 22 42 39 - Commercial Soap Dispensers and Faucets where commodity soap dispensers are typically specified. Cross reference is required in section 10 28 00 and/or 22 42 39 when soap dispensers are specified in this section. Delete article if soap dispensers are specified in 10 28 00 or 22 42 39.

Specifier: Delete soap dispensers if not required.

2.7 MATCHED SOAP DISPENSERS

A. Deck Mounted Soap Dispensers – 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 rotational resistant 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.**

Specifier: Delete if not required.

2.8 MANUAL SOAP DISPENSER

- A. Deck-mounted **SD#**___: [16 oz. (473 mL) plastic][32 oz. (946 mL) plastic] globe, with 4 inches (102 mm) spout.
1. Basis of Design Manufacturer/Model: **Bradley, Model 6324.**
- B. Deck-mounted **SD#**___: 16 oz. (473 mL) plastic globe, with 3-1/2 inches (88.90 mm) spout.
1. Basis of Design Manufacturer/Model: **Bradley, Model 6334.**

PART 3 - EXECUTION

3.1 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.

Standard ADA & TAS: 33-1/2 inches. At least one basin must meet dimensional requirements and have proper reach, knee, and toe clearance.

Juvenile ADA & TAS: 30-1/2 inches. At least one basin must meet dimensional requirements and have proper reach, knee, and toe clearance.

Junior: 26 inches. For use by younger children where ADA guidelines are not a concern.

- A. Install accessible wall-mounted sinks at juvenile/handicapped/elderly mounting heights according to ICC/ANSI A117.1.

- B. Assemble fixtures, accessories, and associated fittings and trim in accordance with manufacturer's instructions.
- C. Install fixture supports firmly attached to building structure.
- D. Install fixtures level, plumb, and in accordance with manufacturer's rough-in instructions.
- E. Install water supply piping. Provide stop on each supply in readily-serviceable location. Fasten supply piping to supports or substrate.
- F. Install trap and waste piping to each fixture.
- G. Install escutcheons at exposed piping penetrations in finished locations and within cabinets.
- H. Seal joints between fixtures and walls, floors, and countertops with mildew-resistant silicone sealant meeting requirements in Division 07 Section "Joint Sealants."

Specifier: Delete soap dispenser mounting requirements if not included in this section.

- I. Mount soap dispenser in 1-3/8 inches (35 mm) diameter hole in lavatory or countertop 1-1/2 inches (38 mm) from edge of sink. Shank will accommodate a maximum counter thickness of 1-1/2 inches (38 mm).

3.2 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.

3.3 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