

BRADLEY COMMERCIAL LAVATORIES AND FAUCETS

Bradley Corporation, the industry's leading manufacturer of premium quality commercial lavatories and lavatory faucets, serves a diverse customer base ranging from local business facilities to international corporations like Wal-Mart, General Motors, U.S. Postal Service, W.W. Grainger, AMC Theaters Corporation.

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 – Hand and Hair Dryers

Section 10 28 13.63 – Detention Toilet Accessories

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

Section 10 51 26.13 – Plastic Lockers (Lenox Recycled 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 16.11 – 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. All active AIA members must successfully complete 18 learning unit (LU) hours each year.

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TouchTime® is a trademark of Bradley Corporation.

Crescent® is a registered trademark of Bradley Corporation.

Terreon® is a registered trademark of Bradley Corporation.

SECTION 22 42 16

COMMERCIAL LAVATORIES AND FAUCETS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SECTION INCLUDES

- A. Commercial lavatories.

Specifier: Delete faucets if the integral Sprayhead is required. For "Bowl Only" model retain faucets.

- B. Commercial faucets.

Specifier: Delete deck mounted soap dispensers if not required.

- C. Commercial soap dispensers.

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

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

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

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

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

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

Specifier: Bradley Section 22 46 00 - Security Plumbing Fixtures

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

1.4 REFERENCES:

- A. American National Standards Institute (ANSI):
 1. ANSI Z 124.3 - Plastic Lavatories.
 2. ANSI Z 124.6 - Plastic Sinks.
- B. American Society of Mechanical Engineers (ASME):
 1. ASME A112.18.1 Plumbing Supply Fittings.

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.

- C. GREENGUARD Environmental Institute (GEI):
 - 1. GREENGUARD listed and certified low emitting products.
- D. International Association of Plumbing and Mechanical Officials (IAPMO):
 - 1. Universal Plumbing Code (cUPC both U.S. and Canada).
- E. Public Law 102-486, Energy Policy Act, requires that public lavatories manufactured after December 31, 1996, have flow rate or consumption not greater than 0.5 gpm (1.5 L/min.) or 0.25 gal. (0.95 L) per metering cycle.
- F. State of Texas:
 - 1. Texas Accessibility Standards (TAS).
- G. US Federal Government:
 - 1. Public Law 102-486 - Energy Policy Act. 1992.
 - 2. U.S. Architectural & Transportation Barriers Compliance Board. Americans with Disabilities Act (ADA), Accessibility Guidelines for Buildings and Facilities (ADAAG).

1.5 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.

Specifier: Bradley Corporation's TerreonRE recycled solid surface 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.

- B. LEED Submittals:
 - 1. Product Data for [Credit WE 2] and Credit WE 3]: Documentation indicating compliance with requirements.

1.6 INFORMATION SUBMITTALS

- A. Sample warranty.
- B. Operation, care and cleaning instructions.

1.7 MAINTENANCE SUBMITTALS

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

1.8 QUALITY ASSURANCE

- 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. 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.
- B. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.
- C. Comply with Public Law 102-486, Energy Policy Act.

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.

- D. Comply with NSF 372, Drinking Water System Components – Health Effects.
 1. Product shall meet a weighted average of not more than 0.25 percent lead as required by the U.S. Safe Drinking Water Act.
- E. Solid surface material GREENGUARD certified as low-emitting material.

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.
 1. Terreon lavatories: 10 years.
 2. Soap Dispenser: Three years.
 3. Faucets: Three years.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Basis-of-Design Product: Subject to compliance with requirements, provide commercial lavatories manufactured by 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.

1. Submit comparable products of one of the following for approval by Architect:
 - a. **[Insert name of manufacturer of comparable product.]**
2. Submit requests for substitution in accordance with Instructions to Bidders and Division 01 General Requirements.

Specifier: Retain this paragraph below when matching verge soap dispensers are specified in 10 28 00 - Toilet, Bath and Laundry Accessories.

3. Provide specified designer matched soap dispenser and faucet products; Owner will not consider substitution requests for designer matched soap dispenser and faucet products.

2.2 MATERIALS

Specifier: Below describes Terreon®, Bradley's 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. Bradley's unique TerreonRE incorporates recycled content in solid surface material.

- A. Solid Surface Material: Where indicated as constructed of solid surface material, fabricate plumbing fixtures from thermoset bio-based resin certified by approved independent testing

agency (IAMPO R&T) as complying with applicable national building codes, with the following minimum properties:

1. Basis of Design Product: **Bradley, [Terreon][TerreonRE]**, or a comparable product fabricated from one of the following materials:
 - a. DuPont, Corian Products.
 - b. Wilsonart International, Inc., Gibraltar Products.
2. Thickness: **1/2 inch (13 mm)**, minimum.
3. Liquid Absorption: 0.025 percent in 24 hours, per ASTM D 570.
4. Tensile Strength: **5000 psi (34 MPa)**, minimum, per ASTM D 638.
5. Thermal Expansion: 2.30, per ASTM D 696.
6. Hardness: 55-60, per ASTM D 785.
7. Fire Resistance: Class 1, per ASTM E 84.

Specifier: ADA, ANSI, TAS and UFAS Compliant. Constructed of Vandal-Resistant Terreon® or Terreon® RE Solid Surface Material, available in a variety of colors.

Choose from a Terreon Sprayhead or a "Bowl Only" Model with Your Choice of Faucets.

Optional Deck-Mounted Soap Dispensers.

Mount with Optional Surface Bracket by Bradley or In-Wall Carriers by Others. Designed to mount at different heights (adult and children) to comply with guidelines on reaches, clearances and operation for various codes including, ADA Accessibility Guidelines for Buildings and Facilities (ADAAG) and TAS (Texas Accessibility Standards).

Delete single station lavatories if not required.

2.3 LAVATORIES, SINGLE STATION

Specifier: Delete **Express Model SS-1N** single station lavatories if not required.

- A. Single-Station One-person Lavatory Fixture **LAV# ___**: Wall-mounted lavatory constructed of **[recycled]** solid surface material with circular bowl. Unit includes waste and supply connections to wall with stop, strainer, and check valves**[, concealed by high impact polymer access panel/trap cover]****[, concealed by stainless steel access panel/trap cover]**.
 1. Basis of Design Manufacturer/Model: **Bradley, Express Model SS-1N**.

Specifier: Refer to Faucet Article in this specification for Bradley faucet options. Delete if spray head option is required.

2. Faucet: **[insert faucet Manufacturer/Model]**.

Specifier: Refer to Soap Dispenser Article in this specification for Bradley soap dispenser options. Delete if soap dispenser not required.

3. Soap Dispenser: **[insert soap dispenser Manufacturer/Model]**.

Specifier: Delete if integral molded spray head lavatory is not required.

4. Spray Head: Independent water stream former with flow rate of **0.5 gpm (1.9 Lpm)** at operating range of **20 to 80 psi (138 to 552 kPa)**.

Specifier: Select spray head valve operation options below. Select power source option for infrared sensing module.

- a. Spray Head Valve Operation: Infrared sensing module and solenoid with automatic shut-off. Flow rate **0.50 gpm (1.9 Lpm)** **[with 110/24 VAC plug-in transformer.]****[battery operated.]**

- b. Spray Head Valve Operation: Light-touch, 10 second auto shutoff and solenoid valve. Flow rate **0.10 gpc (0.38 Lpc)**.
5. Water Supply: **[Single tempered line][Thermostatic mixing valve assembly]**.

Specifier: Select from Standard, Designer or TerreonRE colors. Refer to Bradley Sink Express technical document for available colors.

6. Bowl/Deck Color: **[insert Bradley Terreon color required]**.

Specifier: Accommodates one user. These units handle washroom traffic quickly and economically, while providing each user with their own personal space. Robust design meets or exceeds the ANSI load requirements. This system can be mounted at different heights to accommodate hand washing for adults, children, young children, and those with disabilities. Meets Enhanced Reach when paired with WashBar Duo.

Delete Model Express GLX-1 single station lavatories if not required.

- B. Single-Station One-person Lavatory Fixture **LAV# ____**: Wall-mounted lavatory constructed of **[recycled]** solid surface material with integral bowl. Unit includes waste and supply connections to wall with stop, strainer, and check valves, concealed by high impact polymer access panel/trap cover.
 1. Basis of Design Manufacturer/Model: **Bradley, Express Model GLX1-1**.
 2. Product Compliance:
 - a. ADA / ICC ANSI A117.1 and IAPMO IGC 156 and requirements of CSA B45.5/IAPMO Z124 and ASME A112.18.1/CSA B125.1.

Specifier: Delete if not required.

- b. Texas Accessibility Standards (TAS).
3. Overall Unit Size: **26-3/8 inches (670 mm)** length, **20-5/8 inches (525 mm)** depth.

Specifier: Select from Standard, Designer or TerreonRE colors. Refer to Bradley Sink Express technical document for available colors.

4. Bowl/Deck Color: **[insert Bradley Terreon color required]**.
5. Drain Connection: **[chrome-plated waste assembly][polypropylene waste assembly]**.

Specifier: For primary/elementary school applications, Bradley recommends hands free activation for soap dispensers and faucets in lieu of manual activation to ensure proper reach for kindergarten students.

Specifier: Refer to Faucet Article in this specification for Bradley faucet options. WBD1 Washbar Duo, Verge Series, Centerset or centershank drilling only.

Indicate if no drilling is required.

6. Faucet: **[insert faucet Manufacturer/Model]**.

Specifier: Refer to Soap Dispenser Article in this specification for Bradley soap dispenser options. Delete if soap dispenser not required.

7. Soap Dispenser: **[insert soap dispenser Manufacturer/Model]**.
8. Water Supply: **[Single tempered line assembly][Thermostatic mixing valve assembly]**.
9. Trap enclosure Color: Coal.

Specifier: Accommodates one user. These units handle washroom traffic quickly and economically, while providing each user with their own personal space. Robust design meets or exceeds the ANSI load requirements. This system can be mounted at different heights to accommodate hand washing for adults, children, young children, and those with disabilities. Meets Enhanced Reach when paired with WashBar Duo.

Delete Model Express TLX-1 single station lavatories if not required.

- C. Single-Station One-person Lavatory Fixture **LAV# ____**: Wall-mounted lavatory constructed of [recycled] solid surface material with integral bowl. Unit includes waste and supply connections to wall with stop, strainer, and check valves, concealed by high impact polymer access panel/trap cover.
1. Basis of Design Manufacturer/Model: **Bradley, Express Model TLX-1.**
 2. Product Compliance:
 - a. ADA / ICC ANSI A117.1.
 - b. IAPMO IGC 156.
 - c. CSA B45.5 / IAPMO Z124.
 - d. ASME A112.18.1/ CSA B125.1.
 - e. NSF/ANSI 372.

Specifier: Delete if not required.

- f. Texas Accessibility Standards (TAS).
3. Overall Unit Size: **26-1/4 inches (668 mm)** length, **20-5/8 inches (525 mm)** depth.

Specifier: Select from Standard, Designer or TerreonRE colors. Refer to Bradley Sink Express technical document for available colors.

4. Bowl/Deck Color: **[insert Bradley Terreon color required]**.
5. Drain Connection: **[chrome-plated waste assembly][polypropylene waste assembly]**.

Specifier: For primary/elementary school applications, Bradley recommends hands free activation for soap dispensers and faucets in lieu of manual activation to ensure proper reach for kindergarten students.

Specifier: Refer to Faucet Article in this specification for Bradley faucet options. WBD1 Washbar Duo, Verge Series, Centerset or centershank drilling only.

Indicate if no drilling is required.

6. Faucet: **[insert faucet Manufacturer/Model]**.

Specifier: Refer to Soap Dispenser Article in this specification for Bradley soap dispenser options. Delete if soap dispenser not required.

7. Soap Dispenser: **[insert soap dispenser Manufacturer/Model]**.
8. Water Supply: **[Single tempered line assembly][Thermostatic mixing valve assembly]**.
9. Trap enclosure Color: Coal.

Specifier: **Bradley Frequency® lavatory systems** Model No. FL-1L and FL-1H described below feature a concave or convex shape that creates a contemporary "wave" design when mounted side by side, the concave unit meeting accessibility requirements while the convex unit providing ergonomically-correct wash station height for other adult users. Frequency lavatories are equipped with sensor-controlled faucets, with optional soap dispensers and thermostatic mixing. Bradley also offers towel dispensers, mirrors, and waste receptacles with coordinated Frequency design features – specified in Division 10 Section "Toilet, Bath, and Laundry Accessories."

- D. ADA/ABA compliant single-Station One-person Frequency Lavatory Fixture **LAV# ____**: Wall-mounted lavatory constructed of [recycled] solid surface material with circular bowl. Unit includes waste and supply connections to wall with stop, strainer, and check valves.
1. Basis of Design Manufacturer/Model: **Bradley, Frequency Model FL-1L.**

Specifier: Refer to Faucet Article in this specification for Bradley faucet options. Delete if not required.

2. Faucet: **[insert faucet Manufacturer/Model]**.

Specifier: Refer to Soap Dispenser Article in this specification for Bradley soap dispenser options. Delete if soap dispenser not required.

3. Soap Dispenser: **[insert soap dispenser Manufacturer/Model]**.
4. Water Supply: **[Single tempered line][Thermostatic mixing valve assembly]**.
5. Power Source: Battery Operated.

Specifier: Select from Standard, Designer or TerreonRE colors. Refer to Bradley Sink Frequency technical document for available colors.

6. Bowl/Deck Color: **[insert Bradley Terreon color required]**.
- E. Single-Station One-person Frequency Lavatory Fixture **LAV# ____**: Wall-mounted lavatory constructed of **[recycled]** solid surface material with circular bowl. Unit includes waste and supply connections to wall with stop, strainer, and check valves.
1. Basis of Design Manufacturer/Model: **Bradley, Frequency Model FL-1H**.

Specifier: Refer to Faucet Article in this specification for Bradley faucet options. Delete if not required.

2. Faucet: **[insert faucet Manufacturer/Model]**.

Specifier: Refer to Soap Dispenser Article in this specification for Bradley soap dispenser options. Delete if soap dispenser not required.

3. Soap Dispenser: **[insert soap dispenser Manufacturer/Model]**.
4. Water Supply: **[Single tempered line][Thermostatic mixing valve assembly]**.
5. Power Source: Battery Operated.

Specifier: Select from Standard, Designer or TerreonRE colors. Refer to Bradley Sink Frequency technical document for available colors.

6. Bowl/Deck Color: **[insert Bradley Terreon color required]**.

Specifier: **Bradley Terreon Imperial Lavatory** described below are an ideal alternative for wall-mounted vitreous china lavatories. Tough and vandal resistant, the Terreon Imperial Lavatory will stand in place much longer.

- F. ADA/ABA compliant wall-mounted, Accessible, Single-Station Lavatory Fixture **LAV# ____**: Constructed of **[recycled]** solid surface material with water overflow and ledged back, drain, strainer, and tailpiece.
1. Basis of Design Manufacturer/Model: **Bradley, Terreon Imperial Lavatory Model TL-18**.
 2. Fixture Size: **22 by 18 inches (558 by 457 mm)**.

Specifier: Refer to Faucet Article in this specification for Bradley faucet options. Delete if not required.

3. Faucet: **[insert faucet Manufacturer/Model]**.

Specifier: Refer to Soap Dispenser Article in this specification for Bradley soap dispenser options. Delete if soap dispenser not required.

4. Soap Dispenser: **[insert soap dispenser Manufacturer/Model]**.
5. Water Supply: **[Single tempered line][Thermostatic mixing valve assembly]**.

Specifier: Select from Standard, Designer or TerreonRE colors. Refer to Bradley Sink Imperial technical document for available colors.

6. Bowl/Deck Color: **[insert Bradley Terreon color required]**.

- G. ADA/ABA compliant wall-mounted, Single-Station Lavatory Fixture **LAV#**____: Constructed of [recycled] solid surface material with water overflow and ledged back, drain, strainer, and tail-piece.
1. Basis of Design Manufacturer/Model: **Bradley, Terreon Lavatory Model LD-3010.**
 2. Fixture Size: **22 by 18 inches (558 by 457 mm).**
 3. Bowl Size: **13 by 16 inches (330 by 406 mm).**

Specifier: Refer to Faucet Article in this specification for Bradley faucet options. Delete if not required.

4. Faucet: **[insert faucet Manufacturer/Model].**

Specifier: Refer to Soap Dispenser Article in this specification for Bradley soap dispenser options. Delete if soap dispenser not required.

5. Soap Dispenser: **[insert soap dispenser Manufacturer/Model].**
6. Water Supply: **[Single tempered line][Thermostatic mixing valve assembly].**

Specifier: Select from Standard, Designer or TerreonRE colors. Refer to Bradley Sink technical document for available colors.

7. Bowl/Deck Color: **[insert Bradley Terreon color required].**

Specifier: Bradley multiple-user lavatory systems described below are constructed of Terreon solid-surface material. The lavatories serve up to 3 users at a time, handling washroom traffic quickly and economically while providing each user with their own space. Lavatory bowls are positioned on 30 inch centers. The preassembled spray head modules are equipped with independent stream formers, each served by a separate infrared sensor or push-button. Standard flow rate of .5 GPM meets industry standard for water conservation while providing enough water to rinse hands quickly and efficiently. Operating range is 20-80 PSI.

Bradley multi-user lavatory decks are supported by a fully-enclosed stainless steel frame that houses the lavatory P-trap and tailpiece, flexible stainless steel supply connections, optional Bradley Vernatherm thermostatic mixing valve with integral strainers and external checkstops, and optional transformer for infrared sensor control.

2.4 LAVATORIES, MULTIPLE USER SYSTEMS

Specifier: **Bradley Express® SS-Series lavatory systems** described below feature a Terreon or TerreonRE continuous bowl with semi-circular wash stations.

Select floor supported option when wall supported installation is not available.

- A. ADA/ABA compliant, [Wall-mounted, Floor-supported,][Wall-mounted,][2][3] Station Lavatory **LAV#**____: Constructed of [recycled] solid surface material with integral semi-circular continuous bowls, deck, and ledge containing concealed, vandal-resistant spray head. Unit includes waste and supply connections to wall with stop, strainer, and check valves, and stainless steel support frame, concealed by high impact polymer pedestal enclosure. ADA/ABA, ANSI A117.1, and TAS compliant. IPC/cUPC certified by IAPMO.
1. Basis of Design Manufacturer/Model: **Bradley, Express Lavatory System, SS-series Model No. [SS-2N][SS-3N].**
 2. Overall Unit Size: **[50 by 21-1/8 inches (1270 by 537 mm) with 2 bowls][80 by 21-1/8 inches (2032 by 537 mm) with 3 bowls].**
 3. Bowl Size: **16 inches (406 mm) diameter.**

Specifier: Refer to Faucet Article in this specification for Bradley faucet options. Delete if spray head option is required.

4. Faucet: **[insert faucet Manufacturer/Model].**

Specifier: Refer to Soap Dispenser Article in this specification for Bradley soap dispenser options. Delete if soap dispenser not required.

5. Soap Dispenser: **[insert soap dispenser Manufacturer/Model]**.

Specifier: Delete if integral molded spray head lavatory is not required.

6. Spray Head: Independent water stream former with flow rate of **0.5 gpm (1.9 Lpm)** at operating range of **20 to 80 psi (138 to 552 kPa)**.

Specifier: Select spray head valve operation options below. Select power source option for infrared sensing module.

- a. Spray Head Valve Operation: Infrared sensing module and solenoid with automatic shut-off **[with 110/24 VAC plug-in transformer][battery operated]**.
 - b. Spray Head Valve Operation: Pushbutton air valve metering with adjustable timing.
 - c. Spray Head Valve Operation: Light-touch, 10 second auto shutoff.
7. Water Supply: **[Single tempered line][Single thermostatic mixing valve]**.

Specifier: Select from Standard, Designer or TerreonRE colors. Refer to Bradley Sink Express technical document for available colors.

8. Bowl/Deck Color: **[insert Bradley Terreon color required]**.
9. Pedestal Enclosure Color: As selected by Architect from manufacturer's full line.
10. Accessories: Matching solid surface material: **[Extensions][Purse Shelves][Waste Receptacles][Splashes and Aprons]** as indicated.

Specifier: **Bradley Express® MG-Series lavatory systems** described below feature a continuous bowl with contemporary flowing "wave" design wash stations and a matching contoured spray head shelf. The angle-formed wall mount pedestal completes the contemporary design of the MG-series.

- B. ADA/ABA compliant wall-mounted, **[2][3]** Station Lavatory **LAV#___**: Constructed of **[recycled]** solid surface material with integral wave-formed continuous bowl, contoured deck, and ledge containing concealed, vandal-resistant spray head. Unit includes waste and supply connections to wall with stop, strainer, and check valves, and stainless steel support frame, concealed by high impact polymer pedestal enclosure. ADA/ABA, ANSI A117.1, and TAS compliant. IPC/cUPC-certified by IAPMO.
 1. Basis of Design Manufacturer/Model: **Bradley, Express Lavatory System, MG series Model No. [MG-2][MG-3]**.
 2. Overall Unit Size: **[54 by 22 inches (1372 by 559 mm) with 2 bowls][84 by 21-1/8 inches (2134 by 537 mm) with 3 bowls]**.
 3. Bowl Size: **16-inches (406 mm)** diameter.

Specifier: Refer to Faucet Article in this specification for Bradley faucet options. Delete if spray head option is required.

4. Faucet: **[insert faucet Manufacturer/Model]**.

Specifier: Refer to Soap Dispenser Article in this specification for Bradley soap dispenser options. Delete if soap dispenser not required.

5. Soap Dispenser: **[insert soap dispenser Manufacturer/Model]**.

Specifier: Delete if integral molded spray head lavatory is not required.

6. Spray Head: Independent water stream former with flow rate of **0.5 gpm (1.9 Lpm)** at operating range of **20 to 80 psi (138 to 552 kPa)**.

Specifier: Select one of three spray head valve operation options below.

- a. Spray Head Valve Operation: Infrared sensing module and solenoid with adjustable turn off delay and automatic shut-off, flow rate of **0.50 gpm (1.9 Lpm)** [with 110/24 VAC plug-in transformer][battery operated].
 - b. Spray Head Valve Operation: Pushbutton air valve metering with adjustable timing.
 - c. Spray Head Valve Operation: Light-touch, 10 second auto shutoff and flow rate of **0.10 gpc (0.38 Lpc)**.
7. Water Supply: [Single tempered line][Single thermostatic mixing valve].

Specifier: Select from Standard, Designer or TerreonRE colors. Refer to Bradley Sink Express technical document for available colors.

8. Bowl/Deck Color: [insert Bradley Terreon color required].
9. Pedestal Enclosure Color: As selected by Architect from manufacturer's full line.
10. Accessories: Matching solid surface material: [Extensions][Purse Shelves][Waste Receptacles][Splashes and Aprons] as indicated.

Specifier: **Bradley Frequency® lavatory systems** described below feature two individual multi-height bowls in a continuous, contemporary "wave" design deck formed of Bradley's Terreon or recycled content TerreonRE, meeting accessibility requirements while providing ergonomically-correct wash station height for other adult users. Frequency lavatories come in a variety of colors and are equipped with sensor-controlled faucets, with optional soap dispensers and thermostatic mixing valve. Bradley also offers towel dispensers, mirrors, and waste receptacles with coordinated Frequency design features – specified in Division 10 Section "Toilet, Bath, and Laundry Accessories."

- C. ADA/ABA compliant, wall-mounted, Multi-Level Two Station Lavatory **LAV# ____**: Constructed of [recycled] solid surface material with wave-formed contoured deck, integral ergonomic multi-height bowls, and coved integral backsplash, with sensor faucets. Unit includes waste and supply connections to wall with stop, strainer, and check valves, and heavy-gage stainless steel support brackets, concealed by high impact polymer trap enclosure.
1. Basis of Design Manufacturer/Model: **Bradley, Frequency Lavatory System Model No. [FL-2H][FL-2L]**.
 2. Overall Unit Size: **60 by 22 inches (1524 by 559 mm)** with 2 bowls.
 3. Bowl Size: Rectangular with rounded front: **17 by 13 inches (432 by 330 mm)** on **30 inches (762 mm)** centers.

Specifier: Refer to Faucet Article in this specification for Bradley faucet options. Delete if not required.

4. Faucet: [insert faucet Manufacturer/Model].

Specifier: Refer to Soap Dispenser Article in this specification for Bradley soap dispenser options. Delete if soap dispenser not required.

5. Soap Dispenser: [insert soap dispenser Manufacturer/Model].
6. Water Supply: [Single tempered line][Thermostatic mixing valve assembly].

Specifier: Select from Standard, Designer or TerreonRE colors. Refer to Bradley Sink Frequency technical document for available colors.

7. Bowl/Deck Color: [insert Bradley Terreon color required].
 8. Trap Enclosure Color: As selected by Architect from manufacturer's full line.
- D. ADA/ABA compliant, wall-mounted, Multi-Level Three Station Lavatory **LAV# ____**: Constructed of [recycled] solid surface material with wave-formed contoured deck, integral ergonomic multi-height bowls, and coved integral backsplash, with sensor faucets. Unit includes waste and

supply connections to wall with stop, strainer, and check valves, and heavy-gage stainless steel support brackets, concealed by high impact polymer trap enclosure.

1. Basis of Design Manufacturer/Model: **Bradley, Frequency Lavatory System Model No. [FL-3H] [FL-3L]**.
2. Overall Unit Size: **90 by 22 inches (2286 by 559 mm)** with 3 bowls.
3. Bowl Size: Rectangular with rounded front: **17 by 13 inches (432 by 330 mm)** on **30 inches (762 mm)** centers.

Specifier: Refer to Faucet Article in this specification for Bradley faucet options. Delete if not required.

4. Faucet: **[insert faucet Manufacturer/Model]**.

Specifier: Refer to Soap Dispenser Article in this specification for Bradley soap dispenser options. Delete if soap dispenser not required.

5. Soap Dispenser: **[insert soap dispenser Manufacturer/Model]**.
6. Water Supply: **[Single tempered line][Thermostatic mixing valve assembly]**.

Specifier: Select from Standard, Designer or TerreonRE colors. Refer to Bradley Sink Frequency technical document for available colors.

7. Bowl/Deck Color: **[insert Bradley Terreon color required]**.
8. Trap Enclosure Color: As selected by Architect from manufacturer's full line.

Specifier: **Bradley Express Crescent lavatory system** described below features a space-saving, crescent-shaped bowl with semi-circular wash station and integral concealed spray heads serving multiple users, a low-profile flush deck for accepting an optional soap dispenser, and an optional contoured pedestal enclosure concealing supply connections, optional transformer, and trap. ADA and TAS compliant.

- E. ADA/ABA compliant wall-mounted, **[2][3]** Station Lavatory **LAV#__**: Constructed of **[recycled]** solid surface material with compact, crescent-shaped, low-profile deck and ledge containing concealed, vandal-resistant spray heads and soap dispensers. Unit includes waste and supply connections to wall with stop, strainer, and check valves**[, concealed by high impact polymer access panel/trap cover]**.

1. Basis of Design Manufacturer/Model: **Bradley, Express Crescent Lavatory System, Model No. [CRS-2][CRS-3]**.

Specifier: Delete if integral molded spray head lavatory is not required.

2. Spray Heads: Independent water stream former with flow rate of **0.5 gpm (1.9 Lpm)** at operating range of **20 to 80 psi (138 to 552 kPa)**.
3. Spray Head Valve Operation: Infrared sensing module and solenoid with adjustable turn off delay and automatic shut-off, **[with 110/24 VAC plug-in transformer][battery operated]**.
4. Water Supply: **[Tempered line][Thermostatic mixing valve assembly][Manual mixing valve]**.

Specifier: Select from Standard, Designer or TerreonRE colors. Refer to Bradley Sink Cescent technical document for available colors.

5. Bowl/Deck Color: **[insert Bradley Terreon color required]**.
6. Pedestal enclosure color: As selected by Architect from manufacturer's full line.

Specifier: **Bradley Express Deck lavatory systems** described below feature a continuous bowl with semi-circular wash stations, a flush deck for accepting individual wash station faucets and optional soap dispensers, and an angled pedestal enclosure concealing frame, supply connections, and trap.

- F. ADA/ABA compliant [Wall-mounted, Floor-supported,][Wall-mounted,][2][3] Station Lavatory LAV#___: Constructed of [recycled] solid surface material with integral semi-circular continuous bowls and deck, with deck mounted faucets [and liquid soap dispensers]. Unit includes waste and supply connections to wall with stop, strainer, and check valves, and heavy-gage stainless steel support frame, concealed by high impact polymer pedestal enclosure [and scuff base].

Specifier: Faucet below is standard. See Faucet Article in this specification for other Bradley faucet options.

1. Basis of Design Manufacturer/Model: **Bradley, Express Deck Lavatory System, EXD series.**

Specifier: Refer to Faucet Article in this specification for Bradley faucet options. Delete if not required.

2. Faucet: **[insert faucet Manufacturer/Model].**

Specifier: Refer to Soap Dispenser Article in this specification for Bradley soap dispenser options. Delete if soap dispenser not required.

3. Soap Dispenser: **[insert soap dispenser Manufacturer/Model].**
4. Water Supply: **[Single tempered line][Thermostatic mixing valve assembly].**

Specifier: Select from Standard, Designer or TerreonRE colors. Refer to Bradley Sink Express technical document for available colors.

5. Bowl/Deck Color: **[insert Bradley Terreon color required].**
6. Pedestal Enclosure Color: As selected by Architect from manufacturer's full line.

Specifier: **Bradley Express® ELX-Series lavatory systems** described below feature a seamless one piece Terreon or TerreonRE bowl with center contour and individual drains to create personal space, a flush deck for mounting faucets and soap dispensers, and an integral covered backsplash. This system can be mounted at different heights to accommodate hand washing for adults, children, young children and those with disabilities. The mounting bracket and integral mounting supports eliminate the need for an in-wall carrier and a high impact polymer trap enclosure fully conceals the bracket, single set of supply connections and trap. Delete if not required.

- G. Wall-mounted [2][3] Station Lavatory LAV#___: Constructed of a seamless one piece rectangular [recycled] solid surface bowl with center contour and individual drains to create personal space, integral overflows. Unit includes supply kit – comprised of lead free supply hoses and stops. Unit includes individual or combined drain assembly – comprised of plungable 300 series stainless steel strainers, tail-piece connections and p-traps. Unit includes heavy-gage stainless steel mounting bracket, concealed by high impact polymer trap cover.

1. Basis of Design Manufacturer/Model: **Bradley, Express Deck Lavatory System, ELX-Series Model No. [ELX-2][ELX-3].**
2. Product Compliance:
 - a. ADA / ICC ANSI A117.1.
 - b. IAPMO IGC 156and requirements of CSA B45.5/IAPMO Z124 and ASME A112.18.1/CSA B125.1.
 - c. NSF/ANSI 372.
3. Overall Unit Size: **[55 by 21-5/8 inches (1397 by 549 mm) with 2 bowls][85 by 21-5/8 inches (2286 by 549 mm) with 3 bowls].**
4. Basksplash: **[integral 2-1/2 inches (63.5 mm) covered backsplash][less backsplash].**

Specifier: Select from Standard, Designer or TerreonRE colors. Refer to Bradley Sink Express ELX technical document for available colors.

5. Bowl/Deck Color: **[insert Bradley Terreon color required].**

6. Drain Connection: [chrome-plated combined waste assembly][polypropylene combined waste assembly][chrome-plated individual waste assembly][polypropylene individual waste assembly].

Specifier: For primary/elementary school applications, Bradley recommends hands free activation for soap dispensers and faucets in lieu of manual activation to ensure proper reach for kindergarten students.

Specifier: Refer to Faucet Article in this specification for Bradley faucet options. Delete if not required.

7. Faucet: [insert faucet Manufacturer/Model].

Specifier: Refer to Soap Dispenser Article in this specification for Bradley soap dispenser options. Delete if soap dispenser not required.

8. Soap Dispenser: [insert soap dispenser Manufacturer/Model].
9. Water Supply: [Single tempered line assembly][Thermostatic mixing valve assembly].
10. Trap enclosure Color: Coal.

Specifier: Accommodates two, or three users. These units handle washroom traffic quickly and economically, while providing each user with their own personal space. Robust design meets or exceeds the ANSI load requirements. This system can be mounted at different heights to accommodate hand washing for adults, children, young children, and those with disabilities. Meets Enhanced Reach when paired with WashBar Duo.

Delete Model Express GLX multi-person station lavatories if not required.

- H. Multi-Person, Individual Station Lavatory Fixture **LAV# ___**: Wall-mounted lavatory constructed of [recycled] solid surface material with individual integral bowls that provide area to place personal belongings. Unit includes waste and supply connections to wall with stop, strainer, and check valves, concealed by high impact polymer access panel/trap cover.
 1. Basis of Design Manufacturer/Model: **Bradley, Express Lavatory System, GLX-Series Model No. [GLX-2][GLX-3]**.
 2. Product Compliance:
 - a. ADA / ICC ANSI A117.1.
 - b. IAPMO IGC 156 and requirements of CSA B45.5/IAPMO Z124 and ASME A112.18.1/CSA B125.1.
 - c. NSF/ANSI 372.

Specifier: Delete if not required.

- d. Texas Accessibility Standards (TAS).
3. Overall Unit Size (GLX-2): **55-3/8 inches (1406 mm)** by **20-5/8 inches (525 mm)**.
4. Overall Unit Size (GLX-3): **85-3/8 inches (2168 mm)** by **20-5/8 inches (525 mm)**.

Specifier: Select from Standard, Designer or TerreonRE colors. Refer to Bradley Sink Express technical document for available colors.

5. Bowl/Deck Color: [insert Bradley Terreon color required].
6. Drain Connection: [chrome-plated waste assembly][polypropylene waste assembly].

Specifier: For primary/elementary school applications, Bradley recommends hands free activation for soap dispensers and faucets in lieu of manual activation to ensure proper reach for kindergarten students.

Specifier: Refer to Faucet Article in this specification for Bradley faucet options. WBD1 Washbar Duo, Verge Series, Centerset or centershank drilling only.

Indicate if no drilling is required.

7. Faucet: [insert faucet Manufacturer/Model].

Specifier: Refer to Soap Dispenser Article in this specification for Bradley soap dispenser options. Delete if soap dispenser not required.

8. Soap Dispenser: **[insert soap dispenser Manufacturer/Model]**.
9. Water Supply: **[Single tempered line assembly][Thermostatic mixing valve assembly]**.
10. Trap enclosure Color: Coal.

Specifier: Accommodates two, or three users. These units handle washroom traffic quickly and economically. Robust design meets or exceeds the ANSI load requirements. This system can be mounted at different heights to accommodate hand washing for adults, children, young children, and those with disabilities. Meets Enhanced Reach when paired with WashBar Duo.

Delete Model Express TLX multi-station lavatories if not required.

- I. Multi-Person Lavatory Fixture **LAV# ___**: Wall-mounted lavatory constructed of **[recycled]** solid surface material with linear integral bowl that eliminates flat areas that puddle water. Unit includes waste and supply connections to wall with stop, strainer, and check valves, concealed by high impact polymer access panel/trap cover.
 1. Basis of Design Manufacturer/Model: **Bradley, Express Lavatory System, TLX-Series Model No. [TLX-2][TLX-3]**.
 2. Product Compliance:
 - a. ADA / ICC ANSI A117.1.
 - b. IAPMO IGC 156 and requirements of CSA B45.5/IAPMO Z124 and ASME A112.18.1/CSA B125.1.
 - c. NSF/ANSI 372.

Specifier: Delete if not required.

- d. Texas Accessibility Standards (TAS).
3. Overall Unit Size (TLX-2): **55-5/16 inches (1404 mm)** by **20-5/8 inches (525 mm)**.
4. Overall Unit Size (TLX-3): **85-1/4 inches (2166 mm)** by **20-5/8 inches (525 mm)**.

Specifier: Select from Standard, Designer or TerreonRE colors. Refer to Bradley Sink Express technical document for available colors.

5. Bowl/Deck Color: **[insert Bradley Terreon color required]**.
6. Drain Connection: **[chrome-plated waste assembly][polypropylene waste assembly]**.

Specifier: For primary/elementary school applications, Bradley recommends hands free activation for soap dispensers and faucets in lieu of manual activation to ensure proper reach for kindergarten students.

Specifier: Refer to Faucet Article in this specification for Bradley faucet options. WBD1 Washbar Duo, Verge Series, Centerset or centershank drilling only.

Indicate if no drilling is required.

7. Faucet: **[insert faucet Manufacturer/Model]**.

Specifier: Refer to Soap Dispenser Article in this specification for Bradley soap dispenser options. Delete if soap dispenser not required.

8. Soap Dispenser: **[insert soap dispenser Manufacturer/Model]**.
9. Water Supply: **[Single tempered line assembly][Thermostatic mixing valve assembly]**.
10. Trap enclosure Color: Coal.

Specifier: **Bradley Terreon Lavatory Deck** described below features integral bowls, deck accepting individual wash station faucets and optional soap dispensers, and an optional trap cover concealing supply connections and trap. Deck extensions with or without waste receptacles are optional. Terreon

Lavatory Deck may be supported by wall mount brackets (supplied), or by using in-wall carriers or wall cleats (supplied by others).

- J. ADA/ABA compliant wall-mounted Lavatory Deck **LAV# ___**: Constructed of [recycled] solid surface material with integral oval bowls, coved backsplash [and side splashes], with deck mounted faucets. Unit includes waste and supply connections to wall [, concealed by high impact polymer trap cover].
1. Basis of Design Manufacturer/Model: **Bradley, Terreon Lav Deck, 3010-series.**
 2. Configuration: [1][2][3][4] station deck [, with extended deck as indicated].
 3. Bowl Size: **16 by 13 by 5-3/4 inches** (406 by 330 by 145 mm) on **30-inches** (762 mm) centers.

Specifier: Refer to Faucet Article in this specification for Bradley faucet options. Delete if not required.

4. Faucet: [insert faucet Manufacturer/Model].

Specifier: Refer to Soap Dispenser Article in this specification for Bradley soap dispenser options. Delete if soap dispenser not required.

5. Soap Dispenser: [insert soap dispenser Manufacturer/Model].
6. Water Supply: [Single tempered line][Thermostatic mixing valve assembly].
7. Deck Support: [Stainless steel mounting brackets][In-wall carriers][Wall cleats][Casework specified elsewhere].

Specifier: Select from Standard, Designer or TerreonRE colors. Refer to Bradley Sink technical document for available colors.

8. Deck Color: [insert Bradley Terreon color required].
9. Bowl Color: [Match deck color][insert Bradley Terreon color required].
10. Pedestal Enclosure Color: As selected by Architect from manufacturer's full line.

2.5 SENSOR-OPERATED WASHBAR

Specifier: Retain descriptions of required WashBar WBD if required.

The WashBar WBD1 Duo is available with the Verge® LVAD basin, OmniDeck LD-3010 and GLX/TLX Series only. Delete if not required.

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

- A. 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 cast metal. Load tested to 500 pounds, WashBar is secured to the basin with two anti-rotational shanks.
 4. Tempered Water Supply: [Single tempered line][Single thermostatic mixing valve].
 5. Flow Control: [0.35 gpm (1.3 Lpm) PCA Silicone Tip, Non-Aerated.][0.50 gpm (1.9 Lpm) PCA Silicone Tip, Non-Aerated.][None.]
 6. Soap Type: [Foam Soap Dispenser][Liquid Soap Dispenser]. Soap system accommodates up to a 1 gallon container.
 7. 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).

8. Power Supply: 120V 2A 12V DC adapter that plugs directly into the electrical outlet.

Specifier: Retain thermostatic mixing valve if required for Project.

9. 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.

2.6 MATCHED 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 anti-rotational 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: 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 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.

Specifier: Delete if not required.

2.8 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 powerpack][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: Delete if not required.

2.9 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

- A. Assemble fixtures and associated fittings and trim in accordance with manufacturer's instructions.
- B. Install fixture supports attached to building structure for fixtures requiring supports.
- C. Install fixtures onto waste-fitting seals or flanges and attach to supports or building structure.

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

- D. Install accessible wall-mounted sinks at handicapped/elderly mounting height according to ICC/ANSI A117.1.
- E. Install fixtures level, plumb, and firmly in place in accordance with manufacturer's rough-in requirements. Refer to Drawings for rim height requirements.
- F. Install water supply piping to each fixture requiring water supply connection. Provide stop on each supply in readily-serviced location. Fasten supply piping to supports or substrate.
- G. Install trap and waste piping to each fixture requiring sanitary system connection.
- H. Install escutcheons at exposed piping penetrations in finished locations and within cabinets.
- I. Seal joints between fixtures and walls, floors, and countertops with mildew-resistant silicone sealant.

3.2 CLEANING AND PROTECTION

- A. Repair or replace defective work, including damaged fixtures and components.
- B. Clean unit surfaces, test fixtures, and leave in ready-to-use condition.
- C. Install new batteries in battery-operated devices at time of Substantial Completion.
- D. Turn over keys, tools, maintenance instructions, and maintenance stock to Owner.
- E. 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.
- C. Remove and replace malfunctioning thermostatic mixing valves and retest.

END OF SECTION