



BRADLEY PATIENT CARE UNITS GUIDE SPECIFICATION

Bradley's combination lavatory/water closet modules are designed based on extensive research with health care professionals. They offer extensive functional features to enhance staff productivity and patient safety. These practical fixtures provide a patient toilet, lavatory, and additional support accessories in a cabinet/countertop unit.

At bedside, Bradley patient care units are a more hygienic and are physiologically and psychologically superior replacements for bedpans or commodes. They offer a cost-effective alternative to separate bathrooms. And, as a convenient water source and testing area, they also give your staff an efficient patient care station.

There are several patient care modules to choose from to meet the needs of a variety of hospital, clinic, and nursing home applications. These include: critical and telemetry care, rehab, gastrointestinal, proctology, X-ray, oncology labs, and semi-dependent care environments.

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™ sections:

- Section 10 21 13 – TOILET COMPARTMENTS (Mills® Metal, Plastic-laminate, Phenolic, and Plastic units)
- Section 10 28 13.13 – COMMERCIAL TOILET ACCESSORIES (Institutional and commercial accessories)
- Section 10 28 13.19 – HEALTHCARE TOILET ACCESSORIES (Patient care accessories)
- Section 10 28 13.21 – WARM AIR DRYERS (Aerix® hand dryers)
- Section 10 28 13.63 – DETENTION TOILET ACCESSORIES
- Section 10 28 16 – BATH ACCESSORIES (Hospitality and commercial bath accessories)
- Section 10 51 26 – 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 (Express® and Frequency®
Single and multi-station lavatories)
Section 22 42 16.02 – COMMERCIAL LAVATORIES AND FAUCETS (Advocate® lavatories)
Section 22 42 16.03 – COMMERCIAL LAVATORIES AND FAUCETS (Verge™ lavatories)
Section 22 42 16.04 – COMMERCIAL LAVATORIES AND FAUCETS (OmniDecks™ lavatories)
Section 22 42 16.11 – COMMERCIAL SINKS AND FAUCETS
Section 22 42 23 – COMMERCIAL SHOWERS AND SHOWER VALVES
Section 22 42 33 – WASHFOUNTAINS (Sentry™, BradMate™, and Classic wash fountains)
Section 22 43 00 – HEALTHCARE PLUMBING FIXTURES (Patient care lavatory units)
Section 22 45 00 – EMERGENCY PLUMBING FIXTURES (Halo™ Emergency eyewash fixtures
and 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 offering several programs earning HS&W
Learning Units; several qualify for sustainable design (SD) credit. Contact Bradley to arrange
for an office or association meeting presentation.

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**SECTION 22 43 13
HEALTHCARE PLUMBING FIXTURES**

PART 1 - GENERAL

1.1 SECTION INCLUDES

- A. Combination lavatory/water closet patient care modules.
- B. Hose boxes and dialysis boxes

1.2 RELATED SECTIONS

Specifier: If retaining this optional article, delete related sections below that do not apply to this project.

- 1. Division 22 Section "Domestic Water Piping Specialties" for thermostatic mixing valves.
- 2. Division 22 Section "Commercial Lavatories and Faucets" for lavatories and lavatory decks.
- 3. Division 22 Section "Commercial Sinks and Faucets" for service sinks.
- 4. Division 22 Section "Emergency Plumbing Fixtures" for emergency fixtures.
- 5. Division 22 Section "Security Plumbing Fixtures" for security lavatories.

1.3 REFERENCES:

Specifier: If retaining this optional article, delete references below that do not apply to this project.

A. American National Standards Institute (ANSI):

- 1. ANSI/ICPA-SS-1-2001
- 2. ANSI Z124
- 3. ANSI Z124.3
- 4. ANSI Z124.6

B. American Society of Mechanical Engineers (ASME):

- 1. ASME A112.18.1/CSA B125.1
- 2. ANSI/ASME A112.19.2

C. ASTM International (ASTM):

- 1. ASTM A 1008/A 1008M - Standard Specification for Steel, Sheet, Cold-Rolled, Carbon, Structural, High-Strength Low-Alloy, High-Strength Low-Alloy with Improved Formability, Solution Hardened, and Bake Hardenable
- 2. ASTM A 153/A153M - Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware
- 3. ASTM A 167 - Standard Specification for Stainless and Heat-Resisting Chromium-Nickel Steel Plate, Sheet, and Strip
- 4. ASTM A 240 - Standard Specification for Chromium and Chromium-Nickel Stainless Steel Plate, Sheet, and Strip for Pressure Vessels and for General Applications

5. ASTM A 653/A 653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process
6. ASTM A 666 - Standard Specification for Annealed or Cold-Worked Austenitic Stainless Steel Sheet, Strip, Plate, and Flat Bar
7. ASTM A 743/A 743M - Standard Specification for Castings, Iron-Chromium, Iron-Chromium-Nickel, Corrosion Resistant, for General Application
8. ASTM B 221 - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes
9. ASTM D 570 - Standard Test Method for Water Absorption of Plastics
10. ASTM D 638 - Standard Test Method for Tensile Properties of Plastics
11. ASTM D 696 - Standard Test Method for Coefficient of Linear Thermal Expansion of Plastics Between -30°C and 30°C With a Vitreous Silica Dilatometer
12. ASTM D 785 - Standard Test Method for Rockwell Hardness of Plastics and Electrical Insulating Materials
13. ASTM E 84 - Standard Test Method for Surface Burning Characteristics of Building Materials
14. ASTM G 21 - Standard Practice for Determining Resistance of Synthetic Polymeric Materials to Fungi
15. ASTM G 22 - Standard Practice for Determining Resistance of Plastics to Bacteria

D. Canadian Standards Association (CSA)

1. CSA B45 - Plumbing Fixtures

E. GREENGUARD Environmental Institute (GEI):

1. GREENGUARD listed and certified low emitting products

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

1. IAPMO IGC 156 - Wash Fountains and Lavatory Systems With or Without Water Closets
2. Universal Plumbing Code (cUPC both U.S. and Canada)

G. NSF International (NAF):

1. NSF 61 - Certified Drinking Water System Components

H. US Green Building Council (USGBC):

1. LEED Green Building Rating System

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.

Coordinate LEED Submittals article with Division 01 requirements where applicable.
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Bradley Corporation's TerreonRE recycled solid surface material contains 25-percent preconsumer recycled content and 8-percent rapidly renewable material. Use of recycled materials in plumbing components is in addition to LEED credit requirements.

B. LEED Submittals:

1. Product Data for [Credit WE 2] [and] [Credit WE 3]: Documentation indicating compliance with water efficiency requirements.
2. Product Data for Credit MR 4: Documentation indicating percentages by weight of preconsumer and postconsumer recycled content, including statement indicating cost for each product having recycled content.
3. Product Data for Credit IEQ 4.4: Documentation for adhesives and composite wood products indicating products contain no urea formaldehyde.

C. Samples for Initial Selection: For material, finish, and color selections.

D. Samples for Verification: For each countertop, lavatory, casework, and fixture selection, in manufacturer's standard sample size.

1.5 INFORMATION SUBMITTALS

A. Sample warranty.

1.6 CLOSEOUT SUBMITTALS

A. Operation, care and cleaning instructions.

1.7 QUALITY ASSURANCE

A. Comply with NSF 61, Drinking Water System Components – Health Effects.

B. Low-Emitting Material: Solid surface material GREENGUARD-certified or comparable certification acceptable to Architect.

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.

1. Solid Surface Material: 10 years.
2. Other Products: One year.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Basis-of-Design Products: Provide healthcare plumbing fixtures manufactured by Bradley Corporation, Menomonee Falls, WI 53051, (800) 272-3539; Email info@BradleyCorp.com; Website www.bradleycorp.com.

Specifier: Retain one of two paragraphs below based upon Project requirements.

1. **Substitutions:** Submit requests for substitution in accordance with Instructions to Bidders and Division 01 General Requirements.
2. **Substitutions:** Provide specified product; Owner will not consider substitution requests.

B. MATERIALS

Specifier: **Terreon**[®], Bradley's premium densified solid surface vandal-resistant material, is noted for its excellent 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 and bio-based material in solid surface material.

Retain materials in first three paragraphs below based upon patient care unit(s) specified for project.

- C. **Solid Surface Material:** Fabricate indicated plumbing fixtures from thermoset acrylic modified polyester resin certified by approved independent testing agency as complying with ANSI/ICPA-SS-1-2001, ANSI Z124.3, and ANSI Z124.6, with the following minimum properties:

1. Basis of Design Product: **Bradley, [Terreon] [TerreonRE]**.
2. Recycled Content: Preconsumer: Minimum 25 percent.
3. Low-Emitting Materials: GreenGuard-certified.
4. Thickness: 1/2 inch (13 mm), minimum.
5. Fire Resistance, ASTM E 84: Class 1.
6. Hardness, ASTM D 785: 55-60.
7. Liquid Absorption, ASTM D 570: 0.025 percent in 24 hours.
8. Tensile Strength, ASTM D 638: 5000 psi (34 MPa), minimum.
9. Thermal Expansion, ASTM D 696: 2.30.

- D. **Cultured Marble:** Fabricate indicated plumbing fixtures certified by qualified independent testing agency to conform to ANSI Z124 series when tested for product characteristics, with the following minimum properties:

1. Lavatories: ANSI Z124.3.
2. Sinks: ANSI Z124.6.
3. Fungal and Bacterial Resistance: Surface do not support fungal and bacterial growth as tested in accordance with ASTM G 21 and ASTM G 22.

Specifier: Retain below if required by authorities having jurisdiction.

4. Surface Burning Characteristics: Tested according to ASTM E 84 (NFPA 255):
 - a. Flame-Spread Index: 25 or less.
 - b. Smoke-Developed Index: 450 or less.

- E. **Solid Laminate:** Colored melamine bonded under high pressure to phenolic core. Exposed edges machined smooth to a uniform dark finish, without creases or ripples.

- F. **Stainless Steel Shapes:** ASTM A 167 Type 304, satin finish exposed surfaces unless otherwise indicated.

- G. **Stainless Steel Sheet:** ASTM A 240 or ASTM A 666, 300-series; satin finish exposed surfaces unless otherwise indicated.

- H. Stainless Steel Castings: ASTM A 743/A 743M.
- I. Steel Sheet: ASTM A 1008/A 1008M, Designation CS, manufacturer's standard thickness.
- J. Galvanized-Steel Sheet: ASTM A 653/A 653M, with G60 hot-dip zinc coating, manufacturer's standard thickness.
- K. Galvanized-Steel Mounting Devices: ASTM A 153/A 153M, hot-dip galvanized after fabrication.
- L. Aluminum: ASTM B 221.
- M. Fasteners:
 - 1. Exposed: Screws, bolts, and other devices of same material as accessory unit and tamper-and-theft resistant.
 - 2. Concealed: Galvanized steel.

2.2 PATIENT CARE UNITS

Bradley's Lavatory/Water Closet Comby Model LC500 is a combination lavatory/water closet module featuring a compact design for retrofit or new construction. Constructed with durable epoxy-coated stainless steel cabinetry including large, conveniently located access panels for easy installation and maintenance. Includes a fixed water closet with optional roll-away cover/exam seat.

- A. Combination Lavatory Water Closet Module [PCU#__]: Stainless steel stationary cabinet with countertop, integral lavatory bowl, faucet, and stationary water closet.
 - 1. Basis of Design Product: **Bradley Corp., Model LC500 Patient Care Unit.**
 - 2. Unit Size: 29 inch (737 mm) wide by 33-1/2 inch (845 mm) deep with 36-1/8 inch (917 mm) high countertop.

Specifier: Almond epoxy coated cabinet is standard; other finishes listed are optional. Fixed grab bar is standard.

- 3. Cabinet: Stainless steel sheet, 0.078 inch/14 ga (1.98 mm) thick, with access panels on three sides.
 - a. Finish: [Almond epoxy coating] [Gray epoxy coating] [White epoxy coating] [No. 4 brushed directional polish].
- 4. Countertop: [Cultured marble cast polymer] [Stainless steel, No. 4 brushed directional polish], with 8 by 10 inch (203 by 254 mm) bowl.

Specifier: Wristblade faucet operators are standard. Sensor-operated units require separate thermostatic mixing valve. Sensor-operation not available with stainless steel countertop option.

- 5. Faucet: Rigid gooseneck, 10 inch (254 mm) high.
 - a. Valve Operator: [Wristblade handles] [Foot pedal] [Sensor-operated, 120 VAC] [Sensor-operated, DC battery-powered].

6. Water Closet: Low-flush 1.6 gal. (6.1 L) flush siphon-jet type with elongated bowl, integral flushing rim, and pushbutton-operated hydraulic flushing. Formed from 0.078 inch/14 ga (1.98 mm) and 0.062 inch/16 ga (1.59 mm) stainless steel sheet. Fully enclosed trap with 3-1/2 inch (88.9 mm) seal passing 2-1/8 inch (54.0 mm) diameter ball. White seat with cover with self-sustaining hinge. Static load capacity 5,000 lb (2268 kg). Complies with ANSI/ASME A112.19.2.
 - a. Configuration: [Left side WC] [Right side WC] [As indicated on Drawings].
 - b. Waste Outlet: [Wall] [Floor].
7. Toilet Tissue Holder: Recessed, with shroud.
8. Grab Bar: Fixed, on cabinet face.

Specifier: Following three subparagraphs describe optional accessories.

9. Bedpan Washer: With [volume control valve] [hand lever control] [foot pedal control].
10. Water Closet Cover/Exam Stool: Roll-away type; match cabinet finish.
11. Additional Grab Bar: [Swing-down, 35 inch (889 mm)] [Wall-mounted, 48 inch (1219 mm)].

Bradley's Lavatory/Water Closet Comby Model LC700 offers plastic laminate, stainless steel, or Bradley's Terreon solid surface and TerreonRE recycled solid surface GREENGUARD-certified countertop materials as options, with a compact plastic-laminate clad cabinet with unlimited color options. This unit features a leak-proof swing out stainless steel water closet with foot-operated pedal release and wall or floor waste outlet. Choice of several bedpan washer and dialysis box combination options.

- B. Combination Lavatory Water Closet Module [PCU# ___]: Plastic-laminate-clad stationary cabinet with countertop, lavatory and faucet, and swing-out water closet.
 1. Basis of Design Product: **Bradley Corp., Model LC700 Patient Care Unit.**
 2. Unit Size: 40-1/2 inch (1029 mm) wide by 17-3/8 inch (438 mm) deep (closed) with 36 inch (914 mm) high countertop.

Specifier: Formica #925 Champagne plastic laminate cabinet is standard; Formica, Wilsonart, or Nevamar brand plastic laminate selections are available.

3. Cabinet: Stainless steel frame with 0.75-inch (1.98-mm) thick, plastic-laminate-clad plywood panels and stainless steel toe kick, with storage compartment with removable shelf sized to accommodate two bed pans.
 - a. Doors: Plastic-laminate-clad plywood panels with 250 lb. (113 kg) static load rating with stainless steel continuous hinges.
 - b. Pattern and finish: [Formica #925 Champagne] [As selected from manufacturer's full range].

Specifier: Retain countertop material from one of three "Countertop" paragraphs below; retain and edit corresponding "Colors" subparagraph.

4. **Countertop:** Plastic laminate on medium-density fiberboard with drop-in, self-rim stainless steel lavatory 14-1/2 by 9-1/2 by 5 inch (368 by 241 by 127 mm) deep, with backsplash [and side splashes as indicated].
 - a. Colors: [Wilsonart #4633 Natural Nebula] [As selected from manufacturer's full line].
5. **Countertop:** [Solid surface with integral lavatory bowl] [High recycled-content solid surface with integral bowl] 16-3/4 by 9-1/2 by 8 inch (425 by 241 by 203 mm) deep with IV drip ledge, with backsplash [and side splashes as indicated].
 - a. Top and Bowl Colors: [As selected from manufacturer's standard line] [As selected from manufacturer's full line].
6. **Countertop:** Stainless steel with drop-in, self-rim stainless steel lavatory 14-1/2 by 9-1/2 by 5 inch (368 by 241 by 127 mm) deep, with backsplash [and side splashes as indicated]; #4 directional polish finish.

Specifier: Wristblade faucet operators are standard. Sensor-operated units require separate thermostatic mixing valve. Sensor-operation not available with stainless steel countertop option.

7. **Faucet:** Rigid gooseneck, 10 inch (254 mm) high.
 - a. Valve operator: [Wristblade handles] [Foot pedal] [Sensor-operated, 120 VAC] [Sensor-operated, DC battery-powered].
8. **Water Closet:** Low-flow 1.6 gal. (6.1 L) flush siphon-jet type with elongated bowl, integral flushing rim, and pushbutton-operated hydraulic flushing. Formed from 0.078-inch/14 ga (1.98-mm) and 0.062-inch/16 ga (1.59-mm) stainless steel sheet. Fully enclosed trap with 3-1/2 inch (88.9 mm) seal passing 2-1/8 inch (54.0 mm) diameter ball. White seat with cover with self-sustaining hinge. Toilet pivots into room and locks in position when cabinet door is open. Static load capacity 5,000 lb (2268 kg). Complies with ANSI/ASME A112.19.2.
 - a. Configuration: [Left side WC] [Right side WC] [As indicated on Drawings].
 - b. Waste Outlet: [Wall] [Floor].
9. **Toilet Tissue Holder:** Inside door-mounted.

Specifier: Following subparagraphs describe optional accessories.

10. **Grab Bar:** [Swing-down, 35 inch (889 mm)] [Wall-mounted, 48 inch (1219 mm)].

Specifier: Select one of five options below.

11. **Bedpan Washer:** With [volume control valve] [hand lever control] [foot pedal control].
12. **Dialysis box:** [Single valve] [Dual valve].
13. **Combination dialysis box** and bedpan washer with volume control valve.
14. **Combination dialysis box** and bedpan washer with foot pedal control valve.
15. Storage box.

Bradley's Lavatory/Water Closet Comby Model LC750 offers plastic laminate, stainless steel, or Bradley's Terreon solid surface and TerreonRE recycled solid surface GREENGUARD-certified countertop materials as options, with a plastic-laminate clad cabinet with unlimited color options. This unit features a leak-proof swing out stainless steel water closet with foot-operated pedal release and wall or floor waste outlet. Unit includes bedpan washer in separate compartment, and optional dialysis box.

C. Combination Lavatory Water Closet Module [PCU#__]: Plastic-laminate-clad stationary cabinet with countertop, lavatory and faucet, swing-out water closet, and bedpan washer with drain in separate compartment.

1. Basis of Design Product: **Bradley Corp., Model LC750 Patient Care Unit.**
2. Unit Size: 47-1/2 inch (1194 mm) wide by 17-3/8 inch (438 mm) deep (closed) with 36 inch (914 mm) high countertop.

Specifier: Formica #925 Champagne plastic laminate cabinet is standard; Formica, Wilsonart, or Nevamar brand plastic laminate selections are available.

3. Cabinet: Stainless steel frame with 0.75-inch (1.98-mm) thick, plastic-laminate-clad plywood panels and stainless steel toe kick, with storage compartment with removable shelf sized to accommodate two bed pans.
 - a. Doors: Plastic-laminate-clad plywood panels with 250 lb. (113 kg) static load rating with stainless steel continuous hinges.
 - b. Pattern and finish: [Formica #925 Champagne] [As selected from manufacturer's full range].

Specifier: Retain countertop material from one of three "Countertop" paragraphs below; retain and edit corresponding "Colors" subparagraph.

4. **Countertop:** Plastic laminate on medium-density fiberboard with drop-in, self-rim stainless steel lavatory 14-1/2 by 9-1/2 by 5 inch (368 by 241 by 127 mm) deep, with backsplash [and side splashes as indicated].
 - a. Colors: [Wilsonart #4633 Natural Nebula] [As selected from manufacturer's full line].
5. **Countertop:** [Solid surface with integral lavatory bowl] [High recycled-content solid surface with integral bowl] 16-3/4 by 9-1/2 by 8 inch (425 by 241 by 203 mm) deep with IV drip ledge, with backsplash [and side splashes as indicated].
 - a. Top and Bowl Colors: [As selected from manufacturer's standard line] [As selected from manufacturer's full line].
6. **Countertop:** Stainless steel with drop-in, self-rim stainless steel lavatory 14-1/2 by 9-1/2 by 5 inch (368 by 241 by 127 mm) deep, with backsplash [and side splashes as indicated]; #4 directional polish finish.

Specifier: Wristblade faucet operators are standard. Sensor-operated units require separate thermostatic mixing valve. Sensor-operation not available with stainless steel countertop option.

7. Faucet: Rigid gooseneck, 10 inch (254 mm) high.
 - a. Valve operator: [Wristblade handles] [Foot pedal] [Sensor-operated, 120 VAC] [Sensor-operated, DC battery-powered].
8. Water Closet: Low-flush 1.6 gal. (6.1 L) flush siphon-jet type with elongated bowl, integral flushing rim, and pushbutton-operated hydraulic flushing. Formed from 0.078-inch/14 ga (1.98-mm) and 0.062-inch/16 ga (1.59-mm) stainless steel sheet. Fully enclosed trap with 3-1/2 inch (88.9 mm) seal passing 2-1/8 inch (54.0 mm) diameter ball. White seat with cover with self-sustaining hinge. Toilet pivots into room and locks in position when cabinet door is open. Static load capacity 5,000 lb (2268 kg). Complies with ANSI/ASME A112.19.2.
 - a. Configuration: [Left side WC] [Right side WC] [As indicated on Drawings].
 - b. Waste Outlet: [Wall] [Floor].
9. Toilet Tissue Holder: Inside door-mounted.
10. Bedpan Washer: With [volume control valve] [hand lever control] [foot pedal control].

Specifier: Select one of two options below.

11. **Dialysis box:** [Single valve] [Dual valve].
12. Storage box.

Specifier: Following subparagraph describes optional accessories.

13. **Grab Bar:** [Swing-down, 35 inch (889 mm)] [Wall-mounted, 48 inch (1219 mm)].

Bradley's Lavatory/Water Closet Comby Model LC800 offers plastic laminate, stainless steel, or Bradley's Terreon solid surface and TerreonRE recycled solid surface GREENGUARD-certified countertop materials as options, with a plastic-laminate clad cabinet with unlimited color options. This unit features a fixed stainless steel or china water closet with wall or floor waste outlet and optional roll-away cover/exam seat. Unit includes bedpan washer in separate compartment, and optional dialysis box.

- D. Combination Lavatory Water Closet Module [PCU# ___]: Plastic-laminate-clad stationary cabinet with countertop, lavatory and faucet, fixed water closet, and bedpan washer with drain in separate compartment. IAPMO approved. Complies with IGC 156, CSA B45 Series, and ASME A112.18.1/CSA B125.1.
 1. Basis of Design Product: **Bradley Corp., Model LC800 Patient Care Unit.**
 2. Unit Size: 47 inch (1194 mm) wide by 30-7/8 inch (784 mm) deep (closed) with 36 inch (914 mm) high countertop.

Specifier: Formica #925 Champagne plastic laminate cabinet is standard; Formica, Wilsonart, or Nevamar brand plastic laminate selections are available.

3. Cabinet: Stainless steel frame with 0.75-inch (19-mm) thick, plastic-laminate-clad plywood panels and stainless steel toe kick.

- a. Doors: Plastic-laminate-clad plywood panels with 250 lb. (113 kg) static load rating with stainless steel continuous hinges.
- b. Pattern and finish: [Formica #925 Champagne] [As selected from manufacturer's full range].

Specifier: Retain countertop material from one of three "Countertop" paragraphs below; retain and edit corresponding "Colors" subparagraph.

- 4. **Countertop:** Plastic laminate on medium-density fiberboard with drop-in, self-rim stainless steel lavatory 14-1/2 by 9-1/2 by 5 inch (368 by 241 by 127 mm) deep, with backsplash [and side splashes as indicated].
 - a. Colors: [Wilsonart #4633 Natural Nebula] [As selected from manufacturer's full line].
- 5. **Countertop:** [Solid surface with integral lavatory bowl] [High recycled-content solid surface with integral bowl] 16-3/4 by 9-1/2 by 8 inch (425 by 241 by 203 mm) deep with IV drip ledge, with backsplash [and side splashes as indicated].
 - a. Top and Bowl Colors: [As selected from manufacturer's standard line] [As selected from manufacturer's full line].
- 6. **Countertop:** Stainless steel with drop-in, self-rim stainless steel lavatory 14-1/2 by 9-1/2 by 5 inch (368 by 241 by 127 mm) deep, with backsplash [and side splashes as indicated]; #4 directional polish finish.

Specifier: Wristblade faucet operators are standard. Sensor-operated units require separate thermostatic mixing valve. Sensor-operation not available with stainless steel countertop option.

- 7. Faucet: Rigid gooseneck, 10 inch (254 mm) high.
 - a. Valve operator: [Wristblade handles] [Foot pedal] [Sensor-operated, 120 VAC] [Sensor-operated, DC battery-powered].
- 8. Water Closet: Low-flush 1.6 gal. (6.1 L) flush siphon-jet type with elongated bowl, integral flushing rim, and pushbutton-operated hydraulic flushing. Fully enclosed trap with 3-1/2 inch (88.9 mm) seal passing 2-1/8 inch (54.0 mm) diameter ball. White seat with cover with self-sustaining hinge. Height meet ADA requirements. Complies with ANSI/ASME A112.19.2.
 - a. **Material:** White china, with bedpan lugs.
 - b. **Material:** Stainless steel sheet, with static load capacity 5,000 lb (2268 kg).
 - c. Configuration: [Left side WC] [Right side WC] [As indicated on Drawings].
 - d. Waste Outlet: [Wall] [Floor].
- 9. Toilet Tissue Holder: Inside door-mounted.
- 10. Bedpan Washer: With [volume control valve] [hand lever control] [foot pedal control].

Specifier: Select dialysis box or storage box subparagraph below.

- 1. **Dialysis box:** [Single valve] [Dual valve].

2. Storage box.

Specifier: Following two subparagraphs describe optional accessories.

3. Water Closet Cover/Exam Stool: Roll-away type; match cabinet finish.
4. Grab Bar: [Swing-down, 35 inch (889 mm)] [Wall-mounted, 48 inch (1219 mm)].

Bradley's Lavatory/Water Closet Comby Model LC840 offers a sleek, contemporary design compact unit in 40 inches of floor space, with a plastic-laminate-clad cabinet and choice of plastic laminate, stainless steel, or Bradley Terreon or TerreonRE countertops. This unit features a fixed stainless steel water closet with wall or floor waste outlet and optional roll-away cover/exam seat. Unit includes bedpan washer in separate compartment, and optional dialysis box.

- E. Combination Lavatory Water Closet Module [PCU#__]: Contemporary design, compact plastic-laminate-clad cabinet with countertop, lavatory and faucet, fixed water closet with fold-down seat cover, and bedpan washer with drain in separate compartment. IAPMO approved. Complies with IGC 156, CSA B45 Series, and ASME A112.18.1/CSA B125.1.

1. Basis of Design Product: **Bradley Corp., Model LC840 Patient Care Unit.**
2. Unit Size: 40 inch (1016 mm) wide by 32-1/4 inch (819 mm) deep (closed) with 36 inch (914 mm) high countertop.

Specifier: Formica #925 Champagne plastic laminate cabinet is standard; Formica, Wilsonart, or Nevamar brand plastic laminate selections are available.

3. Cabinet: Stainless steel frame with 0.75-inch (19-mm) thick, plastic-laminate-clad plywood panels and stainless steel toe kick.
 - a. Doors: Plastic-laminate-clad plywood panels with 250 lb. (113 kg) static load rating with stainless steel continuous hinges.
 - b. Pattern and finish: [Formica #925 Champagne] [As selected from manufacturer's full range].

Specifier: Retain countertop material from one of three "Countertop" paragraphs below; retain and edit corresponding "Colors" subparagraph.

4. **Countertop:** Plastic laminate on medium-density fiberboard with drop-in, self-rim stainless steel lavatory 14-1/2 by 9-1/2 by 5 inch (368 by 241 by 127 mm) deep, with backsplash [and side splashes as indicated].
 - a. Colors: [Wilsonart #4633 Natural Nebula] [As selected from manufacturer's full line].
5. **Countertop:** [Solid surface with integral lavatory bowl] [High recycled-content solid surface with integral bowl] 16-3/4 by 9-1/2 by 8 inch (425 by 241 by 203 mm) deep with IV drip ledge, with backsplash [and side splashes as indicated].
 - a. Top and Bowl Colors: [As selected from manufacturer's standard line] [As selected from manufacturer's full line].

6. **Countertop:** Stainless steel with drop-in, self-rim stainless steel lavatory 14-1/2 by 9-1/2 by 5 inch (368 by 241 by 127 mm) deep, with backsplash [and side splashes as indicated]; #4 directional polish finish.

Specifier: Wristblade faucet operators are standard. Sensor-operated units require separate thermostatic mixing valve. Sensor-operation not available with stainless steel countertop option.

7. Faucet: Rigid gooseneck, 10 inch (254 mm) high.
 - a. Valve operator: [Wristblade handles] [Foot pedal] [Sensor-operated, 120 VAC] [Sensor-operated, DC battery-powered].

BRADLEY: Data sheet describes WC in this unit as pivot type – not certain this is correct.

8. Water Closet: Low-flush 1.6 gal. (6.1 L) flush siphon-jet type with elongated bowl, integral flushing rim, bedpan lugs, and pushbutton-operated hydraulic flushing. Fully enclosed trap with 3-1/2 inch (88.9 mm) seal passing 2-1/8 inch (54.0 mm) diameter ball. White seat with cover with self-sustaining hinge. Height meet ADA requirements. Complies with ANSI/ASME A112.19.2.
 - a. Stainless steel sheet, epoxy-coated, with static load capacity 5,000 lb (2268 kg).
 - b. Configuration: [Left side WC] [Right side WC] [As indicated on Drawings].
 - c. Waste Outlet: [Wall] [Floor].
9. Toilet Tissue Holder: Inside door-mounted.
10. Bedpan Washer: [Volume control valve] [Hand lever control] [Foot pedal control] [Rigid].

Specifier: Select dialysis box or storage box subparagraph below.

11. **Dialysis box:** [Single valve] [Dual valve].
12. Storage box.

Specifier: Following subparagraph describes optional accessories.

13. **Grab Bar:** [Swing-down, 35 inch (889 mm)] [Wall-mounted, 48 inch (1219 mm)].

Bradley's Lavatory/Water Closet Comby Model LC2000 is fully accessible, contemporary design full-size unit with additional storage space, with a plastic-laminate-clad cabinet and Bradley Terreon or TerreonRE countertops. This unit features a fixed stainless steel water or china water closet with wall or floor waste outlet and fold-away padded seat cover. Options include bedpan washer in separate compartment and dialysis box.

- F. Combination Lavatory Water Closet Module [PCU#__]: Accessible, contemporary design plastic-laminate-clad cabinet with solid-surface countertop and integral lavatory with faucet, fixed water closet with hide-away seat cover and padded back rest, and built-in grab bar.
 1. Basis of Design Product: **Bradley Corp., Model LC2000 Patient Care Unit.**
 2. Unit Size: 60 inch (1524 mm) wide by 29-1/2 inch (749 mm) deep (closed) with 37 inch (940 mm) high countertop.

Specifier: Formica #925 Champagne plastic laminate cabinet is standard; Formica, Wilsonart, or Nevamar brand plastic laminate selections are available.

3. Cabinet: Stainless steel frame with 0.75-inch (19-mm) thick, plastic-laminate-clad plywood panels and stainless steel toe kick.
 - a. Doors: Plastic-laminate-clad plywood panels with 250 lb. (113 kg) static load rating with stainless steel continuous hinges.
 - b. Pattern and finish: [Formica #925 Champagne] [As selected from manufacturer's full range].
4. Countertop: [Solid surface with integral lavatory bowl] [High recycled-content solid surface with integral bowl] 16-3/4 by 9-1/2 by 8 inch (425 by 241 by 203 mm) deep with IV drip ledge, with backsplash [and side splashes as indicated].
 - a. Top and Bowl Colors: [As selected from manufacturer's standard line] [As selected from manufacturer's full line].

Specifier: Wristblade faucet operators are standard. Sensor-operated units require separate thermostatic mixing valve. Sensor-operation not available with stainless steel countertop option.

5. Faucet: Rigid gooseneck, 10 inch (254 mm) high.
 - a. Valve operator: [Wristblade handles] [Sensor-operated, 120 VAC] [Sensor-operated, DC battery-powered].
6. Water Closet: Low-flush 1.6 gal. (6.1 L) flush siphon-jet type with elongated bowl, integral flushing rim, bedpan lugs, and pushbutton-operated hydraulic flushing. Fully enclosed trap with 3-1/2 inch (88.9 mm) seal passing 2-1/8 inch (54.0 mm) diameter ball. White seat with cover with self-sustaining hinge. Height meet ADA requirements. Complies with ANSI/ASME A112.19.2.
 - a. Stainless steel sheet, epoxy-coated, with static load capacity 5,000 lb (2268 kg).
 - b. Configuration: [Left side WC] [Right side WC] [As indicated on Drawings].
 - c. Waste Outlet: [Wall] [Floor].
7. Toilet Tissue Holder: Inside door-mounted.
8. Grab bar: Fixed, face of cabinet.

Specifier: Following subparagraphs describe optional accessories.

9. **Bedpan Washer:** Volume control valve.
10. **Dialysis box:** [Single valve] [Dual valve].
11. **Additional Grab Bar:** [Swing-down, 35 inch (889 mm)] [Wall-mounted, 48 inch (1219 mm)].

2.3 HOSE BOXES

- A. Recessed Hose Box: Stainless steel non-protruding box, welded and ground smooth to No. 4 satin finish, with anchoring clips and wall flange. Equipped with chrome-plated brass valves,

1. Basis of Design Product: **Bradley Corp., Model 7900 Series Recessed Hose Box.**
2. Supply Stops and Valves: Screwdriver type.
3. Supply Outlet: 3/4 inch hose thread male ASME B1.20.7.
4. Box Depth: 4-1/2 inch (114 mm).
5. [Cold only] [Hot and cold].
6. Door: [With tumbler lock cylinder] [Less door].

2.4 DIALYSIS BOXES

- A. Recessed Dialysis Box: For dialysis machines using RO (reverse osmosis) or DI (dionized) water mixed with dialysate saline concentrate: Stainless steel box, welded and ground smooth, with anchoring tabs and removable wall flange. Equipped with PVC valves, discharge hose bracket, and waste water receptor.
1. Basis of Design Product: **Bradley Corp., Model 7900 Series Recessed Dialysis Box.**
 2. Dialysis Supply Valve: [Two:] [One:] 1/2 inch (12.7 mm) PVC true union ball valve.
 3. Supply Outlet: 3/4 inch hose thread male ASME B1.20.7.
 4. Drain: NPS 1-1/2 (DN 38).
 5. Box Depth: 3-1/2 inch (89 mm).
 6. Door: [With tumbler lock cylinder] [Less door].

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Verify that substrate conditions are complete and acceptable for the installation of units.
- B. Verify that plumbing and electrical work complies with requirements for fixture installation.
- C. Proceed with installation once conditions meet requirements.

3.2 INSTALLATION

- A. Install units and associated fixtures and fittings in accordance with manufacturer's written instructions and requirements of authorities having jurisdiction.
- 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.
 1. Install fixtures level, plumb, and firmly anchored in place in accordance with manufacturer's rough-in drawings.
 2. Provide plumbing connections necessary for a completed installation.
 - a. Provide 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.
 - b. Install trap and waste piping to each fixture requiring sanitary system connection.
 - c. Install escutcheons at exposed piping penetrations in finished locations and within cabinets.
 3. Provide electrical connections necessary for completed installation.

4. Seal joints between fixtures and walls, floors, and countertops with mildew-resistant silicone sealant.

3.3 CLEANING AND PROTECTION

- A. Clean unit surfaces, test fixtures, and leave in ready-to-use condition.
- B. Install new batteries in battery-operated devices at time of Substantial Completion.
- C. Turn over keys, tools, maintenance instructions, and maintenance stock to Owner.
- D. Protect units with water-resistant temporary covering. Do not allow temporary use of plumbing fixtures unless approved in writing by Architect. Remove protection at Substantial Completion and dispose.

3.4 TESTING AND ADJUSTING

- A. Set field-adjustable temperature set points of temperature-actuated water mixing valves. Adjust set point within allowable temperature range.
- B. Test and adjust fixtures for proper water flow.
- C. Adjust operating parts.
- D. Repair or replace defective work, including damaged fixtures and components.

END OF SECTION