

## BRADLEY COMMERCIAL SHOWERS AND SHOWER VALVES

Bradley Corporation, a leader in the manufacture of toilet room fixtures and plumbing products, produces a complete line of commercial showers and shower valves including single person wall mounted showers with ADA/ABA compliant models; and wall and column mounted group showers with ADA/ABA compliant models. Our helpful and informative website makes selection straight forward. For more information, visit our website at [www.bradleycorp.com/products/tmv/tools](http://www.bradleycorp.com/products/tmv/tools).

Responding to recent legislation, Bradley Navigator<sup>®</sup> line of thermostatic mixing valves are manufactured from lead-free brass castings and bar stock to comply with the most stringent rules that require less than one-quarter of one-percent lead content.

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 makes it easy to specify products with helpful information tools on an advanced website, and a seasoned customer service staff. 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<sup>™</sup> 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 Ablution Systems, 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)

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](http://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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**Proof No. 1**

**SECTION 22 42 23  
COMMERCIAL SHOWERS AND SHOWER VALVES**

**PART 1 - GENERAL**

**1.1 SECTION INCLUDES**

- A. Ablution Systems
- B. Ablution Valves
- C. Individual showers.
- D. Group showers.
- E. Shower valves.
- F. Related Requirements
  - 1. Division 22 Section "Domestic Water Piping Specialties" for Thermostatic Control Valves.
  - 2. Division 22 Section "Healthcare Plumbing Fixtures" for healthcare showers.
  - 3. Division 22 Section "Emergency Plumbing Fixtures" for emergency showers.

**1.2 REFERENCES**

- A. American National Standards Institute (ANSI):
  - 1. ANSI/ICPA SS-1-2001 - Performance Standard for Solid Surface Materials.
  - 2. ICC/ANSI A117.1 - Accessible And Usable Buildings And Facilities.
- B. American Society of Mechanical Engineers (ASME):
  - 1. ASME A112.18.1/CSA B125.1 - Plumbing Supply Fittings.
- C. American Society of Sanitary Engineering (ASSE):
  - 1. ASSE 1016-2005 - Performance Requirements for Automatic Compensating Valves for Individual Showers and Tub/Shower Combinations.
  - 2. ASSE 1017-2005 - Performance Requirements for Temperature Actuated Mixing Valves for Hot Water Distribution Systems.
- D. American National Standards Institute (ANSI):
  - 1. ANSI Z124.1.2 – Plastic Bathtubs and Shower Units.
- E. International Association of Plumbing and Mechanical Officials (IAPMO):
  - 1. Uniform Plumbing Code US (UPC) and Canadian Codes and Standards (cUPC).

**1.3 ACTION SUBMITTALS**

- A. Product Data: Manufacturer's data sheets.

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.

1.4 CLOSEOUT SUBMITTALS

- A. Maintenance Data: For shower faucets to include in maintenance parts manuals.

1.5 QUALITY ASSURANCE

- A. Source Limitations: Obtain each type of plumbing fixture and compatible accessories through one source from a single approved manufacturer.
- B. Regulatory Requirements: Comply with requirements in [ICC A117.1, "Accessible and Usable Buildings and Facilities"]; [Public Law 90-480, "Architectural Barriers Act"; and Public Law 101-336, "Americans with Disabilities Act"]; for plumbing fixtures for people with disabilities.
- C. Water Flow and Consumption Requirements: Comply with Public Law 102-486 "Energy Policy Act."
- D. Drinking Water Standard: Comply with NSF 61, "Drinking Water System Components – Health Effects," where applicable.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Basis-of-Design Product: Subject to compliance with requirements, provide abluton, abluton valves, showers and shower valves manufactured by Bradley Corporation, Menomonee Falls, WI 53051, (800)272-3539, fax (262)251-5817, [www.bradleycorp.com](http://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. [Specifier: Insert name of manufacturer of comparable product.]
- 2. Submit requests for substitution in accordance with Instructions to Bidders and Division 01 General Requirements.
- 3. Provide specified product; Owner will not consider substitution requests.

2.2 COMMERCIAL ABLUTION, GENERAL

- A. Commercial Ablution Materials and Fabrication
  - 1. Exposed Parts finish: Type 316 stainless steel or chrome-plated brass.
  - 2. Nominal stainless steel thickness: 0.050 inch (1.3 mm) minimum.
  - 3. Valve Bodies: Solid brass castings.
  - 4. Supply Inlets: 1/2-inch NPT, 16-inch (406 mm) long flexible stainless steel hoses unless otherwise indicated.
  - 5. Flow Control: [0.5 gpm (1.9 L/min.)] unless otherwise noted.

2.3 ABLUTION SYSTEM

Insert number to complete drawing designation. Use these designations on Drawings to identify each abluton type.

- A. In-Wall Mounted Hand/Foot Washing System **ABL#\_\_\_\_\_**:
  - 1. Basis-of-Design Product: **Bradley Corporation Model No. ABP-1WCA.**
  - 2. Standards: ASME A112.18.1/CSA B125.1 and ASSE 1016.
  - 3. Water Spout: [Designer spout – satin finish] [Designer spout – high polished finish] [Severe Service spout]
  - 4. Ablution Valve: Single Tempered/Cold Supply [Pneumatic metering valve] [Single-compression valve] [Electronic metering valve]
  - 5. Flow Control: [0.5 gpm (1.9 L/min.)] [1.0 gpm (3.8 L/min.)] [1.5 gpm (5.68 L/min.)].
- B. Flush Mounted Hand/Foot Washing System **ABL#\_\_\_\_\_**:

1. Basis-of-Design Product: **Bradley Corporation Model No. ABP-1F.**
2. Standards: ASME A112.18.1/CSA B125.1 and ASSE 1016.
3. Water Spout: [Designer spout – satin finish] [Designer spout – high polished finish] [Severe Service spout] [Hand held control]
4. Ablution Valve: Single Tempered/Cold Supply [Pneumatic metering valve] [Single-compression valve] [Electronic metering valve]
5. Flow Control: [0.5 gpm (1.9 L/min.)] [1.0 gpm (3.8 L/min.)] [1.5 gpm (5.68 L/min.)].

C. Built In Hand/Foot Washing System **ABL#\_\_\_\_\_**:

1. Basis-of-Design Product: **Bradley Corporation Model No. ABP-1C.**
2. Standards: ASME A112.18.1/CSA B125.1 and ASSE 1016.
3. Water Spout: [Designer spout – satin finish] [Designer spout – high polished finish] [Severe Service spout]
4. Ablution Valve: Single Tempered/Cold Supply [Pneumatic metering valve] [Single-compression valve] [Electronic metering valve]
5. Flow Control: [0.5 gpm (1.9 L/min.)] [1.0 gpm (3.8 L/min.)] [1.5 gpm (5.68 L/min.)].

D. Panel Hand/Foot Washing System **ABL#\_\_\_\_\_**:

1. Basis-of-Design Product: **Bradley Corporation Model No. ABP-1PA.**
2. Standards: ASME A112.18.1/CSA B125.1 and ASSE 1016.
3. Water Spout: [Designer spout – satin finish] [Designer spout – high polished finish] [Severe Service spout]
4. Ablution Valve: Single Tempered/Cold Supply [Pneumatic metering valve] [Single-compression valve] [Electronic metering valve]
5. Flow Control: [0.5 gpm (1.9 L/min.)] [1.0 gpm (3.8 L/min.)] [1.5 gpm (5.68 L/min.)].

## 2.4 ABLUTION VALVES

A. Ablution Valves, General:

1. Valve Bodies: Solid brass castings.
2. Exposed Parts finish: Type 304 Stainless steel or chrome-plated brass.
3. Nominal stainless steel thickness: 0.050 inch (1.3 mm) minimum.

B. Single-Handle Compression Valve [**CSV#\_\_\_\_\_**].

1. Basis-of-Design Product: **Bradley Corporation, Model No. ABP-1C-SV** Single Handle Compression Valve
2. Description: Single-handle user temperature regulated compression valve.
3. Faucet:
  - a. Standards: ASSE 1016 and cUPC.
  - b. Body Material: Solid brass.
  - c. Finish: Polished chrome plate.
  - d. Operation: Solid SS, swept back design handles, twist or rotate control.
  - e. Supply Connections: 1/2-inch NPT.

Specifier: Retain optional subparagraph below when required.

- a. Check Stops: Check-valve type

C. Accessible Electronic Ablution Metering Valve [**CSVA#\_\_\_\_\_**].

1. Basis-of-Design Product: **Bradley Corporation, Model No. ABP-1C-TT** TouchTime Electronic Control Shower Valve.

Specifier: TouchTime Electronic Metering Valves must be supplied with hot water from a thermostatic mixing valve source. TouchTime Electronic Metering Valves requires placement in a plumbing chase or provided with other means of access from behind the wall of the abluion system.

2. Description: ADA/ABA compliant, easy-touch push button solid state electronic control and solenoid abluion valve.
3. Valve:
  - a. Push-Button Material: Stainless Steel.

- b. Face Plate Material: Chrome plated brass.
- c. Operation: Easy touch push button.
- d. Timing: Factory preset to 60 seconds.
- e. Solenoid
  - 1) Voltage: 24-volt, 50-60-hertz.
- f. Supply Connections: 1/2-inch NPT.

Specifier: Retain optional subparagraph below when required.

4. Low Voltage Transformer.

D. Accessible Push-Button Air Metering Valve **[CSVA# \_\_\_\_]**.

- 1. Basis-of-Design Product: **Bradley Corporation, Model No. ABP-1C-AST** Air-Metering Shower Control Valve

Specifier: Air-Metering Valves must be supplied with hot water from a thermostatic mixing valve source. Air-Metering Valves require placement in a plumbing chase or provided with other means of access from behind the wall of the ablation system.

- 2. Description: ADA/ABA compliant, solid state electronic, easy touch push button ablation control
- 3. Valve:
  - a. Push-Button Material: Chrome plated brass
  - b. Actuator Face Plate Material: Chrome plated brass.
  - c. Operation: Easy touch push button.
  - d. Push-Button Pneumatic Actuator:
  - e. Air Metering Valve
    - 1) Inlet from Tempered Water Valve: 1/2-inch IPS
    - 2) Outlet to ablation spout: 3/8-inch IPS.
  - f. Timing: Adjustable from 5 to 45 seconds.

2.5 COMMERCIAL SHOWERS, GENERAL

A. Commercial Shower Materials and Fabrication

- 1. Exposed Parts finish: Type 304 stainless steel or chrome-plated brass.
- 2. Nominal stainless steel thickness: 0.050 inch (1.3 mm) minimum.
- 3. Valve Bodies: Solid brass castings.
- 4. Supply Inlets, Individual Showers: 1/2-inch NPT, 24-inch (610 mm) long flexible stainless steel hoses unless otherwise indicated.
- 5. Supply Inlets, Group Showers: 3/4-inch (19 mm) Type L rigid copper.

B. Flow Control: 1.5 gpm (5.7 L/min.) unless noted otherwise.

2.6 INDIVIDUAL SHOWERS

Insert number to complete drawing designation. Use these designations on Drawings to identify each shower type.

A. ADA/ABA Compliant Individual Coverall Wall Shower **SHR# \_\_\_\_**:

- 1. Basis-of-Design Product: **Bradley Corporation Model No. WS-1WCA-ADA.**
- 2. Standards: ASME A112.18.1/CSA B125.1 and ASSE 1016.
- 3. Shower Head: Hand-held shower head on 60-inch, 1/2-inch NPT flexible SS hose with inline backflow preventer, quick disconnect, and bracket.
- 4. Shower Valve:
  - a. Hot/Tempered and Cold Supplies: **[Pressure balancing valve] [HD pressure balancing valve] [Thermostatic mixing valve]**.
  - b. Single Tempered/Cold Supply: **[Infra-red metering valve] [Pneumatic metering valve] [Single-compression valve] [Electronic metering valve]**.
- 5. Flow Control: **[1.5 gpm (5.7 L/min.)] [2.0 gpm (7.6 L/min.)] [2.5 gpm (9.5 L/min.)]**.
- 6. Soap Dish: Attached.
- 7. Barrier Free Seat: **[Left hand, plastic] [Right hand, plastic]**.
- 8. Grab Bar Configuration: **[24-inch(610 mm) straight] [Two-wall] [Slide bar]**.

- B. Individual Coverall Wall Shower **SHR#\_\_\_\_\_**:
1. Basis-of-Design Product: **Bradley Corporation Model No. WS-1WCA.**
  2. Standards: ASME A112.18.1/CSA B125.1 and ASSE 1016.
  3. Showerhead: Fixed direction, adjustable spray.
  4. Shower Valve:
    - a. Hot/Tempered and Cold Supplies: [Pressure balancing valve] [HD pressure balancing valve] [Thermostatic mixing valve ] [Hot and cold compression valve].
    - b. Single Tempered/Cold Supply: [Infra-red metering valve] [Mechanical metering valve] [Pneumatic metering valve] [Single-compression valve ] [Electronic metering valve].
  5. Soap Dish: Attached.
- C. ADA/ABA Compliant Individual Pivoting Wall Shower **SHR#\_\_\_\_\_**: Wall mounted shower, with stainless steel pivoting hinges.
1. Basis-of-Design Product: **Bradley Corporation Model No. WS-1X-HN.**
  2. Standards: ASME A112.18.1/CSA B125.1 and ASSE 1016.
  3. Showerhead: Hand-held shower head on 60-inch, 1/2-inch NPT flexible SS hose with inline backflow preventer, quick disconnect, and bracket.
  4. Diverter valve: Lever handle for transfer of water between fixed showerhead and hand held spray.
  5. Shower Valve:
    - a. Hot/Tempered and Cold Supplies: [Pressure balancing valve] [HD pressure balancing valve] [Thermostatic mixing valve ].
    - b. Single Tempered/Cold Supply: [Infra-red metering valve] [Pneumatic metering valve] [Single-compression valve ] [Electronic metering valve].
  6. Soap Dish: Attached.
  7. 24-inch (610 mm) shower head vertical slide bar.
  8. Barrier Free Seat: [Left hand, plastic] [Right hand, plastic].
  9. Grab Bar Configuration: [24-inch(610 mm) straight] [Two-wall] [Slide bar].
- D. Individual Pivoting Wall Shower **SHR#\_\_\_\_\_**: Wall shower, with adjustable direction showerhead and pivoting wall hinges.
1. Basis-of-Design Product: **Bradley Corporation Model No. WS-1X.**
  2. Standards: ASME A112.18.1/CSA B125.1 and ASSE 1016.
  3. Showerhead: Chrome plated brass with ball joint and adjustable spray pattern.
  4. Shower Valve:
    - a. Hot/Tempered and Cold Supplies: [Pressure balancing valve] [HD pressure balancing valve] [Thermostatic mixing valve ] [Hot and cold compression valve].
    - b. Single Tempered/Cold Supply: [Infra-red metering valve] [Pneumatic metering valve] [Single-compression valve ] [Electronic metering valve].
  5. Soap Dish: Attached.
- E. ADA/ABA Compliant Corner Mounted Individual Wall Shower **SHR#\_\_\_\_\_**:
1. Basis-of-Design Product: **Bradley Corporation Model No. WS-1K-HN.**
  2. Standards: ASME A112.18.1/CSA B125.1 and ASSE 1016.
  3. Showerhead: Fixed direction, adjustable spray and hand-held shower head on 60-inch long, 1/2-inch NPT flexible SS hose with inline backflow preventer, quick disconnect, and bracket.
  4. Diverter Valve: Lever Handle for transfer of water between fixed showerhead and hand held spray.
  5. Height to Nozzle: [Adult 72 inches (1830 mm) AFF] [Juvenile 66 inches (1675 mm) AFF].
  6. Shower Valve:
    - a. Hot/Tempered and Cold Supplies: [Pressure balancing valve] [HD pressure balancing valve] [Thermostatic mixing valve ].
    - b. Single Tempered/Cold Supply: [Infra-red metering valve] [Pneumatic metering valve] [Single-compression valve ] [Electronic metering valve].
  7. Soap Dish: Attached.
  8. Barrier Free Seat: [Left hand, plastic] [Right hand, plastic].
  9. Grab Bar Configuration: [24-inch(610 mm) straight] [Two-wall] [Slide bar].
- F. Corner Mounted Individual Wall Shower **SHR#\_\_\_\_\_**:
1. Basis-of-Design Product: **Bradley Corporation Model No. WS-1K.**

2. Standards: ASME A112.18.1/CSA B125.1 and ASSE 1016.
  3. Showerhead: Fixed direction adjustable spray.
  4. Height to Nozzle: [Adult 72 inches (1830 mm) AFF] [Juvenile 66 inches (1675 mm) AFF].
  5. Shower Valve:
    - a. Hot/Tempered and Cold Supplies: [Pressure balancing valve] [HD pressure balancing valve] [Thermostatic mixing valve ] [Hot and cold compression valve].
    - b. Single Tempered/Cold Supply: [Infra-red metering valve] [Mechanical metering valve] [Pneumatic metering valve] [Single-compression valve ] [Electronic metering valve].
  6. Supply Connections: 1/2-inch (12.7 mm) type L copper.
  7. Soap Dish: Attached.
- G. ADA/ABA compliant Built-In Shower With Concealed Supplies **SHR#\_\_\_\_\_**:
1. Basis-of-Design Product: **Bradley Corporation Model No. 1C-EF.SB.**
  2. Description: ADA/ABA compliant individual built-in shower, with concealed supplies See valve selections below.
  3. Standards: ASME A112.18.1/CSA B125.1 and ASSE 1016.
  4. Showerhead: ADA/ABA compliant hand-held shower head on 60-inch, 1/2-inch NPT flexible SS hose with inline backflow preventer, quick disconnect, and [wall bracket] [slide bar].
  5. Flow Control: [2.5 gpm (9.5 L/min.)] [2.0 gpm (7.6 L/min.)] [1.5 gpm (5.7 L/min.)].
  6. Shower Valve:
    - a. Hot/Tempered and Cold Supplies: [Pressure balancing valve] [HD pressure balancing valve] [Thermostatic mixing valve ].
    - b. Single Tempered/Cold Supply: [Infra-red metering valve] [Pneumatic metering valve] [Single-compression valve ] [Electronic metering valve].
  7. Soap Dish: Attached.
  8. Barrier Free Seat: [Left hand, plastic] [Right hand, plastic] [Left hand, stainless steel] [Right hand, stainless steel].
  9. Grab Bar Configuration: [24-inch(610 mm) straight] [Two-wall] [Slide bar].
- H. Built-In Shower with Concealed Supplies **SHR#\_\_\_\_\_**:
1. Basis-of-Design Product: **Bradley Corporation Model No. 1C-EF/S.**
  2. Standards: ASME A112.18.1/CSA B125.1 and ASSE 1016.
  3. Showerhead: Fixed direction, adjustable spray.
  4. Flow Control: [2.5 gpm (9.5 L/min.)] [2.0 gpm (7.6 L/min.)] [1.5 gpm (5.7 L/min.)].
  5. Shower Valve:
    - a. Hot/Tempered and Cold Supplies: [Pressure balancing valve] [HD pressure balancing valve] [Thermostatic mixing valve ] [Hot and cold compression valve].
    - b. Single Tempered/Cold Supply: [Infra-red metering valve] [Mechanical metering valve] [Pneumatic metering valve] [Single-compression valve ] [Electronic metering valve].
  6. Tub Spout: Diverter type spout to direct water from tub spout to showerhead.
  7. Soap Dish: Attached.
- I. Individual Flush Mounted Wall Shower **SHR#\_\_\_\_\_**:
1. Basis-of-Design Product: **Bradley Corporation Model No. WS-1F:**
  2. Standards: ASME A112.18.1/CSA B125.1 and ASSE 1016.
  3. Showerhead: Fixed, adjustable spray.
  4. Flow Control: [2.5 gpm (9.5 L/min.)] [2.0 gpm (7.6 L/min.)] [1.5 gpm (5.7 L/min.)].
  5. Shower Valve:
    - a. Hot/Tempered and Cold Supplies: [Pressure balancing valve] [HD pressure balancing valve] [Thermostatic mixing valve ] [Hot and cold compression valve].
    - b. Single Tempered/Cold Supply: [Infra-red metering valve] [Mechanical metering valve] [Pneumatic metering valve] [Single-compression valve ] [Electronic metering valve].
  6. Soap Dish: Attached.
- J. Adapt-A-Brad Individual Renovation Wall Mounted Shower[, **ADA/ABA compliant**] **SHR#\_\_\_\_\_**:
1. Basis-of-Design Product: **Bradley Corporation Model No. WS-1WAB.**
  2. Standards: ASME A112.18.1/CSA B125.1 and ASSE 1016.
  3. Showerhead: Fixed direction, adjustable spray.
  4. Shower Valve:



- a. Hot/Tempered and Cold Supplies: [Pressure balancing valve] [HD pressure balancing valve] [Thermostatic mixing valve ] [Hot and cold compression valve].
  - b. Single Tempered/Cold Supply: [Infra-red metering valve] [Mechanical metering valve] [Pneumatic metering valve] [Single-compression valve ] [Electronic metering valve].
- 5. Flow Control: [1.5 gpm (5.7 L/min.)] [2.0 gpm (7.6 L/min.)] [2.5 gpm (9.5 L/min.)].
  - 6. Soap Dish: Attached.

## 2.7 GROUP SHOWERS

Insert drawing designation below. Include designations on the drawings to identify Group Showers.

- A. ADA/ABA Privacy 4-Person Multi-Stall Column Shower **SHR#\_\_\_\_\_**:
  - 1. Basis-of-Design Product: **Bradley Corporation Model No. HN450**
  - 2. Description: ADA/4-person multistall column shower with 1 ADA/ABA compliant stall.
  - 3. Standards: ASME A112.18.1/CSA B125.1 and ASSE 1016.
  - 4. Showerhead: 4-Fixed direction, adjustable spray, and 1-Hand-held shower head on 60-inch long, 1/2-inch NPT flexible SS hose with inline backflow preventer, quick disconnect, and bracket at ADA/ABA unit.
  - 5. Diverter Valve: Lever handle for transfer of water flow between fixed and hand held shower head on ADA/ABA unit.
  - 6. Height to Nozzle: [Adult 72 inches (1830 mm) AFF] [Juvenile 66 inches (1675 mm) AFF].
  - 7. Shower Valve:
    - a. Hot/Tempered and Cold Supplies: [Pressure balancing valve] [HD pressure balancing valve] [Thermostatic mixing valve].
    - b. Single Tempered/Cold Supply: [Mechanical metering valve] [Pneumatic metering valve] [Single-compression valve ] [Electronic metering valve].
  - 8. Inlets: 3/4-inch (19 mm) Type L copper.
  - 9. Drain: Cast iron, with stainless steel mounting bolts.
  - 10. Supplies: [From above] [From below].
  - 11. Vent: [Off line] [Through column].
  - 12. Curtains: 60 by 74-inch high heavy gauge translucent vinyl with hemmed edges and zinc-chromate finish steel wire curtain hooks.
  - 13. Soap Dish: Attached shower column.
  - 14. Drain Fitting: [Clamping ring for flashing] [Dome grate drain].
  - 15. Barrier Free Seat: [Left hand, plastic] [Right hand, plastic].
  - 16. Grab Bar: 24-inch(610 mm) long.
  
- B. ADA/ABA Privacy 4-Person Column Shower and Modesty Module **SHR#\_\_\_\_\_**:
  - 1. Basis-of-Design Product: **Bradley Corporation Model No. HN500:**
  - 2. Description: 4-person column shower with 1 ADA/ABA compliant stall, curtain and seat.
  - 3. Standards: ASME A112.18.1/CSA B125.1 and ASSE 1016.
  - 4. Showerhead: 4-Fixed direction, adjustable spray and 1-Hand-held shower head on 60-inch long, 1/2-inch NPT flexible SS hose with inline backflow preventer, quick disconnect, and bracket.
  - 5. Diverter Valve: Lever handle for transfer of water flow between fixed and hand held shower head on ADA/ABA compliant unit.
  - 6. Height to Nozzle: [Adult 72 inches (1830 mm) AFF] [Juvenile 66 inches (1675 mm) AFF].
  - 7. Shower Valve:
    - a. Hot/Tempered and Cold Supplies: [Pressure balancing valve] [HD pressure balancing valve] [Thermostatic mixing valve ].
    - b. Single Tempered/Cold Supply: [Pneumatic metering valve] [Single-compression valve ] [Electronic metering valve].
  - 8. Inlets: 3/4-inch (19 mm) Type L copper.
  - 9. Drain Fitting: [Clamping ring for flashing] [Dome grate drain].
  - 10. Supplies: [From above] [From below].
  - 11. Vent: [Off line] [Through column].
  - 12. Soap Dish: Attached.
  - 13. Mounting: Floor Mounted.
  - 14. Barrier Free Seat: [Left hand, plastic] [Right hand, plastic].
  - 15. Grab Bar: Two, 24-inch(610 mm) long.



- C. ADA/ABA Compliant Multi-Stall Column Shower **SHR#\_\_\_\_\_**:
1. Basis-of-Design Product: **Bradley Corporation Model No. [COL-2C-HN 2 person] [COL-3C-HN 3 person] [COL-4C-HN 4 person] [COL-5C-HN 5 person] [COL-6C-HN 6 person].**
  2. Standards: ASME A112.18.1/CSA B125.1 and ASSE 1016.
  3. Showerhead: Combination fixed direction, adjustable spray at each station and 1 hand held shower head on 60-inch long, 1/2-inch NPT flexible SS hose with inline backflow preventer, quick disconnect, and bracket.
  4. Height to Nozzle: [Adult 72 inches (1830 mm) AFF] [Juvenile 66 inches (1675 mm) AFF].
  5. Shower Valve:
    - a. Hot/Tempered and Cold Supplies: [Pressure balancing valve] [HD pressure balancing valve] [Thermostatic mixing valve ].
    - b. Single Tempered/Cold Supply: [Pneumatic metering valve] [Single-compression valve ] [Electronic metering valve].
  6. Diverter Valve: Two position diverter valve between fixed showerhead and hand-held showerhead.
  7. Curtains: 60 by 74-inch high heavy gauge translucent vinyl with hemmed edges and zinc-chromate finish steel wire curtain hooks.
  8. Drain Fitting: [Clamping ring for flashing] [Dome grate drain].
  9. Supplies: [From above] [From below].
  10. Vent: [Off line] [Through column].
  11. Soap Dish: Attached.
  12. Mounting: Floor Mounted.
  13. Barrier Free Seat: [Left hand, plastic] [Right hand, plastic].
  14. Grab Bar: Vertical mounted on column.
- D. Privacy Multi-Stall Column Shower **SHR#\_\_\_\_\_**:
1. Basis-of-Design Product: **Bradley Corporation Model No. [COL-2C MS 2 person] [COL-3C MS 3 person] [COL-4C MS 4 person] [COL-5C MS 5 person] [COL-6C MS 6 person].**
  2. Standards: ASME A112.18.1/CSA B125.1 and ASSE 1016.
  3. Showerhead: Fixed direction, adjustable spray.
  4. Height to Nozzle: [Adult 72 inches (1830 mm) AFF] [Juvenile 66 inches (1675 mm) AFF].
  5. Shower Valve:
    - a. Hot/Tempered and Cold Supplies: [Pressure balancing valve] [HD pressure balancing valve] [Thermostatic mixing valve ] [Hot and cold compression valve].
    - b. Single Tempered/Cold Supply: [Pneumatic metering valve] [Single-compression valve ] [Electronic metering valve].
  6. Curtains: 60 by 74-inch high heavy gauge translucent vinyl with hemmed edges and zinc-chromate finish steel wire curtain hooks.
  7. Posts: 1-1/4-inch by 80-inch long SS cylindrical tubing with expansion anchor and concealed foot angle.
  8. Drain Fitting: [Clamping ring for flashing] [Dome grate drain].
  9. Supplies: [From above] [From below].
  10. Vent: [Off line] [Through column].
  11. Soap Dish: Attached.
  12. Mounting: Floor Mounted.
- E. Wall Saver Multishower **SHR#\_\_\_\_\_**:
1. Basis-of-Design Product: **Bradley Corporation Model No. [WS-2WMD-2 person] [WS-3WMT 3 person].**
  2. Standards: ASME A112.18.1/CSA B125.1 and ASSE 1016.
  3. Showerhead: Fixed direction, adjustable spray.
  4. Height to Nozzle: [Adult 72 inches (1830 mm) AFF] [Juvenile 66 inches (1675 mm) AFF].
  5. Shower Valve:
    - a. Hot/Tempered and Cold Supplies: [Pressure balancing valve] [HD pressure balancing valve] [Thermostatic mixing valve ] [Hot and cold compression valve].
    - b. Single Tempered/Cold Supply: [Pneumatic metering valve] [Single-compression valve ] [Electronic metering valve].
  6. Drain Fitting: [Clamping ring for flashing] [Dome grate drain].
  7. Supplies: [From above] [From below].
  8. Vent: [Off line] [Through column].

9. Soap Dish: Attached.

F. 2–5 Person Column Shower **SHR#**\_\_\_\_\_:

1. Basis-of-Design Product: **Bradley Corporation Model No. [COL-2C 2 person] [COL-3C 3 person] [COL-4C 4 person] [COL-5C 5 person] [COL-6C 6 person].**
2. Standards: ASME A112.18.1/CSA B125.1 and ASSE 1016.
3. Showerhead: Fixed direction, adjustable spray.
4. Height to Nozzle: [Adult 72 inches (1830 mm) AFF] [Juvenile 66 inches (1675 mm) AFF].
5. Shower Valve:
  - a. Hot/Tempered and Cold Supplies: [Pressure balancing valve] [HD pressure balancing valve] [Thermostatic mixing valve] [Hot and cold compression valve].
  - b. Single Tempered/Cold Supply: [Pneumatic metering valve] [Single-compression valve] [Electronic metering valve].
6. Drain Fitting: [Clamping ring for flashing] [Dome grate drain].
7. Supplies: [From above] [From below].
8. Vent: [Off line] [Through column].
9. Soap Dish: Attached.

Specifier: Retain optional partitions below if required for project.

10. Privacy Partitions: Series 300 SS sandwich type construction privacy partitions with 300 Series SS cylindrical tubing posts and 60 by 74-inch (1524-mm by 1829-mm) translucent vinyl curtains with hemmed edges, aluminum grommet reinforced eyelets and zinc-chromate finish steel wire curtain hooks.

G. ADA/ABA Compliant Econo Wall Shower **SHR#**\_\_\_\_\_:

1. Basis-of-Design Product: **Bradley Corporation Model No. [WS-2W-HN 2 person] [WS-3W-HN 3 person].**
2. Standards: ASME A112.18.1/CSA B125.1 and ASSE 1016.
3. Showerhead: Two fixed direction, adjustable spray, and one hand held shower head on 60-inch long, 1/2-inch NPT flexible SS hose with inline backflow preventer, quick disconnect, and bracket.
4. Height to Nozzle: [Adult 72 inches (1830 mm) AFF] [Juvenile 66 inches (1675 mm) AFF].
5. Shower Valve:
  - a. Hot/Tempered and Cold Supplies: [Pressure balancing valve] [HD pressure balancing valve] [Thermostatic mixing valve].
  - b. Single Tempered/Cold Supply: [Infra-red metering valve] [Pneumatic metering valve] [Single-compression valve] [Electronic metering valve].
6. Diverter Valve: Two position diverter valve to direct water between fixed showerhead and hand-held showerhead.
7. Soap Dish: Attached.
8. Barrier Free Seat: [Left hand, plastic] [Right hand, plastic].
9. Grab Bar: 24-inch(610-mm) straight.

H. Econo-Wall Shower **SHR#**\_\_\_\_\_:

1. Basis-of-Design Product: **Bradley Corporation Model No. [WS-2W 2 person] [WS-3W 3 person].**
2. Standards: ASME A112.18.1/CSA B125.1 and ASSE 1016.
3. Showerhead: Fixed direction, adjustable spray.
4. Height to Nozzle: [Adult 72 inches (1830 mm) AFF] [Juvenile 66 inches (1675 mm) AFF].
5. Shower Valve:
  - a. Hot/Tempered and Cold Supplies: [Pressure balancing valve] [HD pressure balancing valve] [Thermostatic mixing valve] [Hot and cold compression valve].
  - b. Single Tempered/Cold Supply: [Infra-red metering valve] [Mechanical metering valve] [Pneumatic metering valve] [Single-compression valve] [Electronic metering valve].
6. Soap Dish: Attached.

Specifier: Retain optional partitions below if required for project.

7. Privacy Partitions: Series 300 SS sandwich type construction privacy partitions with 300 Series SS cylindrical tubing posts and 60 by 74-inch (1524-mm by 1829-mm) translucent vinyl curtains with

hemmed edges, aluminum grommet reinforced eyelets and zinc-chromate finish steel wire curtain hooks.

- I. ADA/ABA Compliant Wall Mounted Panelon Prefabricated Modular Shower System **SHR#** \_\_\_\_:
1. Basis-of-Design Product: **Bradley Corporation Model No. 1PA-HN.**
  2. Standards: ASME A112.18.1/CSA B125.1 and ASSE 1016.
  3. Showerhead: Fixed direction, adjustable spray and hand held shower head on 60-inch long, 1/2-inch NPT flexible SS hose with inline backflow preventer, quick disconnect, and bracket.
  4. Diverter Valve: Two position diverter valve between fixed showerhead and hand-held showerhead.
  5. Height to Nozzle: [Adult 72 inches (1830 mm) AFF] [Juvenile 66 inches (1675 mm) AFF].
  6. Shower Valve:
    - a. Hot/Tempered and Cold Supplies: [Pressure balancing valve] [HD pressure balancing valve] [Thermostatic mixing valve].
    - b. Single Tempered/Cold Supply: [Infra-red metering valve] [Pneumatic metering valve] [Single-compression valve] [Electronic metering valve].
  7. Soap Dish: Attached.
  8. Barrier Free Seat: [Left hand, plastic] [Right hand, plastic] [Left hand, stainless steel] [Right hand, stainless steel].
  9. Grab Bar: 24-inch(610 mm) straight.
- J. Panelon Prefabricated Modular Shower System **SHR#** \_\_\_\_:
1. Basis-of-Design Product: **Bradley Corporation Model No. [1PA-1 person] [2PA 2 person].**
  2. Standards: ASME A112.18.1/CSA B125.1 and ASSE 1016.
  3. Showerhead: Fixed direction, adjustable spray.
  4. Height to Nozzle: [Adult 72 inches (1830 mm) AFF] [Juvenile 66 inches (1675 mm) AFF].
  5. Shower Valve:
    - a. Hot/Tempered and Cold Supplies: [Pressure balancing valve] [HD pressure balancing valve] [Thermostatic mixing valve] [Hot and cold compression valve].
    - b. Single Tempered/Cold Supply: [Infra-red metering valve] [Mechanical metering valve] [Pneumatic metering valve] [Single-compression valve] [Electronic metering valve].
  6. Supply Inlets: [1 – 4 showerheads: 3/4-inch(19 mm)] [5-8 showerheads: 1-inch(25 mm)] [9 -12 showerheads: 1-1/4-inch (32 mm)] [12 or more showerheads: 2-inch(50 mm)] Type L rigid copper.
  7. Soap Dish: Attached.
- K. Modesty Module with Column or Econo-Wall Showers **SHR#** \_\_\_\_:
1. Basis-of-Design Product: **Bradley Corporation Models No. 4000 series.**
  2. Description: Modesty module compartments with column mounted or Econo-Wall multi showers. Column is drilled and tapped to receive partition stirrups.
  3. Standards: ASME A112.18.1/CSA B125.1 and ASSE 1016.
  4. Showerhead: Fixed direction, adjustable spray.
  5. Height to Nozzle: [Adult 72 inches (1830 mm) AFF] [Juvenile 66 inches (1675 mm) AFF].
  6. Shower Valve:
    - a. Hot/Tempered and Cold Supplies: [Pressure balancing valve] [HD pressure balancing valve] [Thermostatic mixing valve] [Hot and cold compression valve].
    - b. Single Tempered/Cold Supply: [Infra-red metering valve] [Mechanical metering valve] [Pneumatic metering valve] [Single-compression valve] [Electronic metering valve].
  7. Partitions: Series 300 SS sandwich type construction privacy partitions and 1-1/4-inch (32-mm), SS cylindrical tubing posts.
  8. Curtains: 60 by 74-inch (1524-mm by 1829-mm) translucent vinyl curtain with hemmed edges, aluminum grommet reinforced eyelets and zinc-chromate finish steel wire curtain hooks.
  9. Drain Fitting: [Clamping ring for flashing] [Dome grate drain].
  10. Supplies: [From above] [From below].
  11. Vent: [Off line] [Through column].
  12. Soap Dish: Attached.
- L. 2–6 Person Beach Column Shower **SHR#** \_\_\_\_: With 1 foot spray per column.
1. Basis-of-Design Product: **Bradley Corporation Model No. [COL-2B 2 person] [COL-3B 3 person] [COL-4B 4 person] [COL-5B 5 person] [COL-6B 6 person].**

2. Standards: ASME A112.18.1/CSA B125.1 and ASSE 1016.
3. Showerhead: Fixed direction, adjustable spray.
4. Height to Nozzles: [66 inches (1675 mm)] [72 inches (1830 mm)].
5. Shower Valve:
  - a. Single Tempered/Cold Supply: [Pneumatic Metering Valve] [Single Compression Valve].
6. Drain Fitting: [Clamping ring for flashing] [Dome grate drain].

M. Wall Mounted Multi-Stall Privacy Shower **SHR#\_\_\_\_\_**:

1. Basis-of-Design Product: **Bradley Corporation Model No. [WS-2W-MS-2 person] [WS-3W-MS 3 person]**.
2. Standards: ASME A112.18.1/CSA B125.1 and ASSE 1016.
3. Showerhead: Fixed direction, adjustable spr ay for each station.
4. Height to Nozzle: [Adult 72 inches (1830 mm) AFF] [Juvenile 66 inches (1675 mm) AFF].
5. Shower Valve:
  - a. Hot/Tempered and Cold Supplies: [Pressure balancing valve] [HD pressure balancing valve] [Thermostatic mixing valve ] [Hot and cold compression valve].
  - b. Single Tempered/Cold Supply: [Infra-red metering valve] [Mechanical metering valve] [Pneumatic metering valve] [Single-compression valve ] [Electronic metering valve].
6. Soap Dish: Attached.

Specifier: Retain optional partitions below if required for project.
----------------------------------------------------------------------

1. Privacy Partitions: Series 300 SS sandwich type construction privacy partitions with 300 Series SS cylindrical tubing posts and 60 by 74-inch (1524-mm by 1829-mm) translucent vinyl curtains with hemmed edges, aluminum grommet reinforced eyelets and zinc-chromate finish steel wire curtain hooks.

## 2.8 SHOWER VALVES

### A. Shower Valves, General:

1. Valve Bodies: Solid brass castings.
2. Exposed Parts finish: Type 304 Stainless steel or chrome-plated brass.
3. Nominal stainless steel thickness: 0.050 inch (1.3 mm) minimum.

### B. Accessible Pressure Balancing Valve [CSVA#\_\_\_\_\_].

1. Basis-of-Design Product: **Bradley Corporation, Model No. S59-1000 Equa-Flo** Pressure Balancing Valve
2. Description: ADA/ABA compliant pressure balancing valve with inlet check stops, ceramic disc cartridge and stainless steel balancing piston. Adjustable hot temperature limit stop, and ADA compliant lever handle
3. Faucet:
  - a. Standards: ASSE 1016 and cUPC.
  - b. Finish: Polished chrome plate.
  - c. Maximum Flow Rate: 5 gpm (19 L/min) at 45-psig (310-kPa) pressure drop
  - d. Operation: Lever-handle, twist or rotate control.
  - e. Cartridge: Ceramic.
  - f. Anti-scald Device: Integral with mixing valve.
  - g. Check Stops: Check-valve type, integral on hot- and cold-water supply connections.
  - h. Supply Connections: 1/2-inch NPT.

### C. Accessible Pressure Balancing Valve [CSVA#\_\_\_\_\_].

1. Basis-of-Design Product: **Bradley Corporation, Model No. S59-1001 Equa-Flo C5** Pressure Balancing Valve.
2. Description: ADA/ABA compliant pressure balancing valve with inlet check stops, ceramic cartridge and stainless steel balancing piston, adjustable hot temperature limit stop, and ADA compliant lever handle
3. Faucet:
  - a. Standards: ASSE 1016 and cUPC.
  - b. Finish: Polished chrome plate.

- c. Maximum Flow Rate: 5 gpm (19 L/min).at 45-psig (310-kPa) pressure drop
- d. Operation: Lever-handle, twist or rotate control.
- e. Cartridge: Ceramic.
- f. Antiscald Device: Integral with mixing valve.
- g. Check Stops: Check-valve type, integral on hot- and cold-water supply connections.
- h. Supply Connections: 1/2-inch NPT.

D. Accessible Pressure Balancing Valve **[CSVA#\_\_\_]**.

- 1. Basis-of-Design Product: **Bradley Corporation, Model No. S59-1005 Equa-Flo HD** Pressure Balancing Valve.
- 2. Description: ADA/ABA compliant pressure balancing valve with inlet check stops, stainless steel cartridge and balancing piston adjustable hot temperature limit stop, and ADA compliant lever handle
- 3. Faucet:
  - a. Standards: ASSE 1016 and cUPC.
  - b. Body Material: Solid brass.
  - c. Finish: Polished chrome plate.
  - d. Maximum Flow Rate: 5.5 gpm (20 L/min).at 45-psig (310-kPa) pressure drop.
  - e. Operation: Lever-handle, twist or rotate control.
  - f. Cartridge: Stainless steel.
  - g. Anti-scald Device: Integral with mixing valve.
  - h. Check Stops: Check-valve type, integral on hot- and cold-water supply connections.
  - i. Supply Connections: 1/2-inch NPT.

E. Individual Thermostatic Mixing Valve **[CSV#\_\_\_]**.

- 1. Basis-of-Design Product: **Bradley Corporation, Model No. S59-2005** Individual Shower Thermostatic Mixing Valve.
- 2. Description: ADA/ABA compliant thermostatic mixing valve with inlet check stops, wax-filled thermostat, stainless steel cartridge and stainless steel piston, adjustable hot temperature limit stop, and ADA compliant lever handle
- 3. Faucet:
  - a. Standards: ASSE 1016.
  - b. Body Material: Solid brass.
  - c. Finish: Polished chrome plate.
  - d. Maximum Flow Rate: 4 gpm (15 L/min) at 45-psig (310-kPa) pressure drop.
  - e. Operation: Lever-handle, twist or rotate control.
  - f. Anti-scald Device: Integral with mixing valve.
  - g. Check Stops: Check-valve type, integral on hot- and cold-water supply connections.
  - h. Supply Connections: 1/2-inch NPT.

F. Two-Handle Compression Valve **[CSV#\_\_\_]**.

- 1. Basis-of-Design Product: **Bradley Corporation, Model No. 1C-HC** Two Handle Compression Valve.
- 2. Description: Two-handle user regulated temperature compression valve.
- 3. Faucet:
  - a. Standards: ASSE 1016 and cUPC.
  - b. Body Material: Solid brass.
  - c. Finish: Polished chrome plate.
  - d. Operation: Solid SS, swept back design handles, twist or rotate control.
  - e. Supply Connections: 1/2-inch NPT.

Specifier: Retain optional subparagraph below when required.
--------------------------------------------------------------

- f. Check Stops: Check-valve type, integral on hot- and cold-water supply connections.

G. Single-Handle Compression Valve **[CSV#\_\_\_]**.

- 1. Basis-of-Design Product: **Bradley Corporation, Model No. 1C-SV** Single Handle Compression Valve.
- 2. Description: Single-handle user temperature regulated compression valve.
- 3. Faucet:

- a. Standards: ASSE 1016 and cUPC.
- b. Body Material: Solid brass.
- c. Finish: Polished chrome plate.
- d. Operation: Solid SS, swept back design handles, twist or rotate control.
- e. Supply Connections: 1/2-inch NPT.

Specifier: Retain optional subparagraph below when required.

- f. Check Stops: Check-valve type, integral on hot- and cold-water supply connections.

H. Accessible Single-Temperature Two-Handle Compression Valve [CSVA# \_\_\_\_].

- 1. Basis-of-Design Product: **Bradley Corporation, Model No. 1C-SV** Accessible Single Lever Handle Compression Valve.

Specifier: Compression valves must be supplied with hot water from a thermostatic mixing valve.

- 2. Description: ADA/ABA compliant compression valve requiring system wide master tempered water controller.
- 3. Faucet:
  - a. Standards: ASSE 1016 and cUPC.
  - b. Body Material: Solid brass.
  - c. Finish: Polished chrome plate.
  - d. Operation: ADA/ABA compliant, twist or rotate control.
  - e. Check Stops: Check-valve type, integral with or attached to body; on hot- and cold-water supply connections.
  - f. Supply Connections: 1/2-inch NPT.

Specifier: Retain optional subparagraph below when required.

- g. Check-valve, attached to body; on hot- and cold-water supply connections.

I. Single-Source Push-Button Shower Metering Valve [CSVA# \_\_\_\_].

- 1. Basis-of-Design Product: **Bradley Corporation, Model No. Presto 50B** Metering Valve.

Specifier: Presto 50B push-button metering valves must be supplied with hot water from a thermostatic mixing valve source.

- 2. Description: Energy saving, self-metering shower control valve, with chrome plated body and self cleaning ruby orifice for long term reliability.
- 3. Faucet:
  - a. Body Material: Solid brass.
  - b. Finish: Polished chrome plate.
  - c. Operation: Easy-touch push-button operation.
  - d. Timing Cycle: Preset 30-seconds.
  - e. Timing Cycle Control: Laser drilled, ruby orifice with spring operated cleanout pin.
  - f. Supply Connections: 3/8-inch NPT.

J. Accessible Electronic Shower Metering Valves [CSVA# \_\_\_\_].

- 1. Basis-of-Design Product: **Bradley Corporation, Model No. 1C-TT TouchTime** Electronic Control Shower Valve.

Specifier: TouchTime Electronic Metering Valves must be supplied with hot water from a thermostatic mixing valve source. TouchTime Electronic Metering Valves requires placement in a plumbing chase or provided with other means of access from behind the wall of the shower.

- 2. Description: ADA/ABA compliant, easy-touch push button solid state electronic control and solenoid shower valve.
- 3. Valve:
  - a. Push-Button Material: Stainless Steel.
  - b. Face Plate Material: Chrome plated brass.
  - c. Operation: Easy touch push button.
  - d. Timing: Factory preset [60 seconds][180 seconds].
  - e. Solenoid

- 1) Voltage: 24-volt, 50-60-hertz.
- f. Supply Connections: 1/2-inch NPT.

Specifier: Retain optional subparagraph below when required.

4. Low Voltage Transformer.

K. Accessible Push-Button Air Metering Valves [CSVA#\_\_\_\_\_].

- 1. Basis-of-Design Product: **Bradley Corporation, Model No. 1C-AST** Air Metering Shower Control Valve.

Specifier: Air-Metering Valves must be supplied with hot water from a thermostatic mixing valve source. Air-Metering Valves require placement in a plumbing chase or provided with other means of access from behind the wall of the shower.

- 2. Description: ADA/ABA compliant, solid state electronic, easy-touch push button shower control.
- 3. Valve:
  - a. Push-Button Material: Chrome plated brass.
  - b. Actuator Face Plate Material: Chrome plated brass.
  - c. Operation: Easy touch push button.
  - d. Push-Button Pneumatic Actuator:
  - e. Air Metering Valve
    - 1) Inlet from Tempered Water Valve: 1/2-inch IPS
    - 2) Outlet to Showerhead: 3/8-inch IPS.
  - f. Timing: Adjustable from 5 to 45 seconds.

### PART 3 - EXECUTION

#### 3.1 EXAMINATION

- A. Examine water supply, sanitary piping, and vent piping rough in for coordination with shower installation before beginning installation.
- B. Examine architectural installation for compliance with codes and requirements of the manufacturer..
- C. Correct unsatisfactory conditions before starting with installation..

#### 3.2 INSTALLATION

- A. Assemble and install shower components in accordance with manufacturer's instructions. .
- B. Install stops on each water supply piping.
  - 1. Install stops in locations where they can be easily reached for operation.
- C. Set shower basins in leveling bed of cement grout.
- D. Install wall flanges or escutcheons at piping wall penetrations in exposed, finished locations. Use deep-pattern escutcheons if required to conceal protruding fittings. Comply with escutcheons requirements specified in Division 22 Section "Escutcheons for Plumbing Piping."

#### 3.3 CONNECTIONS

Coordinate piping arrangement in accordance with plumbing schematics and with requirements specified in piping systems.

- A. Connect fixtures with water supplies, stops, and risers, and with traps, soil, waste, and vent piping.
- B. Comply with water piping, soil waste and vent piping requirements specified in Division 22.



3.4 ADJUSTING

- A. Operate and adjust showers and controls and adjust water pressure as needed. Replace damaged and malfunctioning showers, fittings, and controls.

3.5 CLEANING AND PROTECTION

- A. Repair any damaged finishes after installation is complete..
- B. Clean shower equipment and basins with manufacturer's recommended cleaning products.
- C. Add protective covering after installation.

END OF SECTION