



**BATHROOM RENOVATIONS FOR
SUNSET LANDING
Tallahassee, Florida
for
Leon County Parks & Recreation
Project No. 0806-001
Specifications**

November, 14 2008

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SUNSET LANDING BATHROOM RENOVATIONS

**Technical Specifications
November 14, 2008**

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SECTION 08110
STEEL DOORS AND FRAMES

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Steel doors
- B. Steel frames
- C. Transom panels

1.02 REFERENCES

- A. ANSI A250.8 – SDI-100 Recommended Specifications for Standard Steel Doors and Frames; 1998.
- B. DHI A115.1G – Installation Guide for Doors and Hardware; 1994.
- C. ASTM A 653/A 653M – Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process; 1999a.
- D. NFPA 80 – Standard for Fire Doors and Fire Windows; 1999.

1.03 SUBMITTALS

- A. Product Data: Provide manufacturer's standard catalog data for specified products demonstrating compliance with referenced standards.
- B. Shop Drawings: Show layout, profiles, product components, anchorages, accessories, and finish colors.
 - 1. Include schedule identifying each unit, with door marks or numbers referencing drawings.
- C. Certificates: Product certificates signed by the manufacturer certifying material compliance with ANSI A250.8, specified performance characteristics and criteria, and physical requirements.
- D. Installation Instructions: Manufacturer's printed installation instructions, including any special installation instructions relating to this project.

1.04 QUALITY ASSURANCE

- A. Installer Qualifications: Experienced in performing work of this section who has specialized in installation of work similar to that required for this project.
 - 1. Certificate: When requested, submit certificate indicating qualification.

1.05 DELIVERY, STORAGE, AND HANDLING

- A. Delivery:
 - 1. Protect with resilient packaging; avoid humidity build-up under coverings; prevent corrosion.

1.06 PROJECT CONDITIONS

- A. Verify actual openings by field measurements before fabrication; show recorded measurements on shop drawings.
- B. Coordinate field measurements and fabrication schedule with construction progress to avoid construction delays.

1.07 WARRANTY

- A. Manufacturer's Warranty: Submit, for Owner's acceptance, manufacturer's standard warranty document executed by authorized company official. Manufacturer's warranty is in addition to, and not a limitation of, other rights Owner may have under the Contract Documents.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Steel Frames:
 - 1. Ceco Door Products
 - 2. Republic Builders Products
 - 3. Steelcraft Manufacturing Co.

2.02 STEEL DOOR FRAMES

- A. Requirements for All Frames:
 - 1. Accessibility: Comply with ANSI/ICC A117.1.
 - 2. Hardware Preparation: In accordance with DHI A115 Series, with reinforcement

welded in place, in addition to other requirements specified in door grade standard.

4. Galvanizing for Units in Wet Areas: All components hot-dipped zinc-iron alloy-coated (galvannealed), with manufacturer's standard coating thickness.
 5. Finish: Factory primed, for field finishing.
 6. Combined Requirements: If a particular door and frame unit is indicated to comply with more than one type of requirement, comply with all the specified requirements for each type; for instance, an exterior door that is also indicated as being sound-rated must comply with the requirements specified for exterior doors and for sound-rated doors; where two requirements conflict, comply with the most stringent.
 7. Provide mortar guard boxes for hardware cut-outs in frames to be installed in masonry or to be grouted.
 8. Frames in Masonry Walls: Size to suit masonry coursing with head member to fill opening without cutting masonry units.
- B. Interior Door Frames: Knock-down type.
1. Grade: Comply with frame requirements specified in ANSI A250.8 for Level 1, 18 gage
 2. Terminated Stops: Provide at all interior doors; closed end stop terminated 6 inches above floor at 45 degree angle.

2.03 ACCESSORY MATERIALS

- A. Silencers: Resilient rubber, fitted into drilled hole; 3 on strike side of single door.
- B. Removable Stops: Formed sheet steel, shape as indicated on drawings, mitered or butted corners corners;; prepared for countersink style tamper proof screws.
- C. Grout for Frames: Portland cement grout of maximum 4-inch slump for hand troweling; thinner pumpable grout is prohibited.
- D. Temporary Frame Spreaders: Provide for all factory- or shop-assembled frames.

2.04 FINISH MATERIALS

- A. Primer: Rust-inhibiting, complying with ANSI A250.10, door manufacturer's standard.
- B. Factory Finish: Complying with ANSI A 250.3, manufacturer's standard coating of color as selected.
- C. Bituminous Coating: Asphalt emulsion or other high-build, water-resistant, resilient

coating.

2.05 DOORS AND PANELS

- A. Fabricate from two sheets of steel with no visible seams on either face or vertical edges; continuously weld door edges and fill and grind smooth.
- B. Hardware Locations: Unless otherwise specified, conform to recommendations of Steel Door Institute or Door and Hardware Institute for location of locks, hinges, latches, push-pull plates and bars, exit devices, handle sets, closer reinforcings, roller latches, and arm pulls.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Before beginning installation, verify that substrate conditions previously installed under other sections are acceptable for installation of doors and frames in accordance with manufacturer's installation instructions and technical bulletins.
 - 1. Verify door frame openings are installed plumb, true, and level.
 - 2. Select fasteners of adequate type, number, and quality to perform intended functions.

3.02 PREPARATION

- A. Coat inside of frames to be installed in masonry or to be grouted, with bituminous coating, prior to installation.

3.03 INSTALLATION

- A. General:
 - 1. Set frames plumb, square, aligned, without twist at correct elevation.
 - 2. Comply with Steel Door Institute (SDI) installation and maintenance standards.
 - 3. Fire Doors and Frames: Install in accordance with NFPA 80, current edition, unless specified otherwise.
- B. Secure anchorages and connections to adjacent construction.
- C. Install doors and hardware in accordance with manufacturers' templates and instructions.

- D. Grout frames in masonry construction, using hand trowel methods; brace frames so that pressure of grout before setting will not deform frames.
- E. Touch-up exposed surfaces scratched or marred during shipment, installation, or handling and field prime scratches or bare edges with a rust inhibitive primer.
- F. Coordinate installation of hardware.
- G. Coordinate installation of electrical connections to electrical hardware items.

3.04 ADJUSTING AND CLEANING

- A. Adjust hinge sets, locksets, and other hardware. Lubricate using a suitable lubricant compatible with door and frame coatings.
- B. Remove temporary coverings and protection of adjacent work areas. Repair or replace damaged installed products. Clean installed products in accordance with manufacturer's instructions before owner's acceptance.
- C. Remove from project site and legally dispose of construction debris associated with this work.

3.05 PROTECTION

- A. Protect installed products and finished surfaces from damage during construction.

END OF SECTION

SECTION 10800 TOILET ACCESSORIES

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Compact warm air electric hand dryers.
- B. Compact warm air contemporary design, compact, warm air, electric, sensor operated hand dryers.
- C. Compact warm air electric sensor-operated hand dryers.

1.2 REFERENCES

- A. Underwriter's Laboratory (UL): Labeled products.

1.3 SUBMITTALS

- A. Product Data: Manufacturer's data sheets on each product to be used, including:
 - 1 Preparation instructions and recommendations.
 - 2 Storage and handling requirements and recommendations.
 - 3 Installation methods.
- B. Manufacturer's installation and maintenance instructions.
- C. Copy of warranty form for review.

1.4 QUALITY ASSURANCE

- A. Product Requirements:
 - 1 Hand dryers shall be certified by Underwriters Laboratory (UL), Inc. and shall bear UL labels.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Store products in manufacturer's unopened packaging until ready for installation.
- B. Store and dispose of solvent-based materials, and materials used with solvent-based materials, in accordance with requirements of local authorities having jurisdiction.

1.6 PROJECT CONDITIONS

- A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.

1.7 WARRANTY

- A. Hand Dryers: Warranty limited to replacing or repairing any Bradley hand/hair dryer unit or part thereof which our inspection shall show to have been defective within the limitations of this warranty. Warranty on Sensors is one (1) year from date of our invoice, Motor Brushes are three (3) years and all other components are ten (10) years.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A Acceptable Manufacturer: Bradley Corporation; W142 N9101
Fountain Boulevard. Menomonee Falls, WI 53051 Tel: 1-800-BRADLEY
(1-800-272-3539) Fax: 262-251-5817 Web: www.bradleycorp.com.

2.2 ELECTRIC HAND DRYER

2902-28 SERIES AUTOMATIC hand dryer is a warm-air, high speed, surface mounted hand dryer designed to last incorporating a vandal resistant design that include a metal 1/6 inch thick cover with 2 vandal-proof locks screws and lock with special security wrench. Warm air hand dryer, surface mounted and conforms to ADAAG projection. Universal voltage. Maximum robustness and vandal-proof, suitable for very high traffic facilities. Normally goes along with a soap dispenser.

- A Surface mounted high speed hand dryer shall incorporate a vandal resistant design that includes 2 vandal-proof locks screws and lock wrench Bradley hand dryer model no.;
- 1 2902-280000.
 - 2 2902-287300.
 - 3 2902-287400.
- B Performance Requirements:
- 1 Operation: The dryer shall start automatically, and operate with no interruption as long as the hands are kept in the detection range of the sensor. The appliance shall stop 2 seconds after the hands are removed from the airflow.
 - 2 Air Speed: Adjustable 4920 to 9840 lfm (1500 m/minute to 3000 m/minute).
 - 3 Temperature at 4 inches (102 mm) distance / 70 degrees F (21 degrees C): Adjustable from 106 degrees F to 111 degrees F (41 degrees C to 44 degrees C).
 - 4 Effective Airflow: 36 to 58 cfm (17000 cu. cm/second to 27400 cu. cm/second).
 - 5 Free Airflow: Adjustable 43 to 70 cfm (20300 cu. cm/sec to 33000 cu. cm/sec).
 - 6 Drying Time: 10 to 15 sec
 - 7 Safety: Automatic disconnection system after 60 seconds of continuous use. Self-resetting thermal cut-off at 302 degrees F (150 degrees C) which disconnect the whole appliance. Protection level against water splashes should be rating IP23.

- 8 Unit shall VDE approved and CE marked and comply with electrical safety directives 73/23/CEE and 93/68/CEE and electro-magnetic compatibility directives 89/336/CEE and 92/31/CEE and with ADA projection requirements.
- 9 Sound Pressure Level (SPL): Noise level at 79 inches (2000 mm). 64–70 dB dependant on fan speed.

C Construction:

- 1 Cover: One-piece cover fabricated from:
 - a Finish: Cast iron one piece cover 3/16 inch (5 mm) thick with white enamel paint finish.
 - b Finish: Steel sheet 1/16 inch (2 mm) thick complying with ASTM A659 with white epoxy paint finish.
 - c Finish: Stainless steel sheet 1/16 inch (2 mm) thick complying with AISI 304 with brushed satin finish.
 - d Cover to be field attached to base with vandal proof screws and locked with special key wrench.
 - e Locate air outlet, intake, and operating sensor in bottom of cover.
 - f Nominal Size: 11-5/8Inches wide by 10-5/8 inches high by 4 inches deep (298 mm wide by 273 mm high by 102 mm deep).
 - g Nominal Size: 11-1/2 inches wide by 10-1/2 inches high by 4 inches deep (292 mm wide by 267 mm high by 102 mm deep).
 - h Weight: 15.2 pounds (6.9 kg).
 - i Weight: 7.9 pounds (3.6 kg).
- 2 Base: Aluminum base, with 4 holes 5/16 inch (8 mm) for wall mounting. Base includes silent-blocks to damp mechanical vibrations.
- 3 Motor: 1/3 HP high speed motor.Universal brush motor, class A.
- 4 R.P.M.: 4.200 to 8.200. RPM may be adjusted manually by means of a potentiometer.
- 5 Voltage: 100–120 V.
- 6 Voltage: 208 V.
- 7 Voltage: 220–240 V.
- 8 Frequency: 50/60 Hz.
- 9 Power Consumption: 17.9 A (120 V).
- 10 Heating Element: 1150 watts.
- 11 Insulation: Grounding required.
- 12 Fully adjustable 2 inches to 8 inches (51 mm to 203 mm) infrared electronic detection sensor by means of a

potentiometer. Sensors shall have a polycarbonate viewing window.

- 13 Fan: Fire resistant plastic UL 94-V0 fan scroll. Aluminum centrifugal double asymmetrical inlet fan wheel.

PART 3 EXECUTION

3.1 COORDINATION

- A Coordinate requirements for blocking to ensure adequate means for support and installation of hand dryers.
- B Coordinate requirements for power supply, conduit, disconnect switches, and wiring.
- C Coordinate dryer installation with application of wall finishes.

3.2 EXAMINATION

- A Do not begin installation until substrates have been properly prepared.
- B If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.3 INSTALLATION

- A Comply with manufacturer's written installation instructions and approved shop drawings.
- B Mount dryers at heights indicated on Drawings and approved shop drawings and in accordance with applicable regulations.
- C Install bases securely to supporting substrate so that dryers are level and aligned with each other. Anchor with fasteners of type and size recommended by manufacturer for type of wall substrate.

3.4 CLEANING, TESTING, AND DEMONSTRATING

- A Remove protective wrappings. Clean surfaces with mild soap solution. Do not use abrasives.
- B Inspect installed dryers to verify mounting is rigid and electrical connections are proper. Test each dryer to verify operation and performance. Correct deficiencies.
- C Protect dryers from remaining construction activities. Immediately remove and replace dryers that are damaged.
- D Demonstrate operation and maintenance to Owner's representative.

3.5 PROTECTION

- A Protect installed products until completion of project.
- B Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION

