
PART 1: GENERAL

1.01 Purpose

This section contains standards for exterior benches and picnic tables.

1.02 Layout of Benches

A. Site Placement: Benches are to be located within close proximity of uses expected to generate pedestrian traffic requiring places to rest. Benches shall be placed adjacent to, rather than within, pedestrian travel corridors, and their location shall not obstruct travel routes or building entries or interfere with other site amenities and activities. If possible, benches shall be positioned to face scenic views. Facilities Services and Campus Planning & Projects (FSCP) will review and approve of all proposed bench locations prior to ordering and installation.

1.03 Layout of Picnic Furniture

A. Site Placement: Picnic tables and chairs are to be located where outdoor plazas have been constructed for socialization and/or eating and within close proximity of outdoor recreational activities. No picnic tables shall be installed without the presences of nearby trash receptacles of sufficient size and number to handle the anticipated waste. Picnic furniture shall be placed adjacent to, rather than within, pedestrian travel corridors, and their location shall not obstruct travel routes or building entries or interfere with other site amenities and activities. If possible, picnic furniture shall be positioned to face scenic views. FSCP will review and approve all picnic table and chair locations prior to ordering and installation.

1.04 Submittals

- A. Product data: Provide information on product materials (detail drawings showing product dimensions, manufacturer's recommended installation requirements, etc.) and samples for initial selection for review and approval by FSCP prior to ordering.
- B. Quality Standards: Provide information regarding compliance with current ISO quality manufacturing standards.
- C. Environmental Criteria: Provide information regarding the pre-consumer, post-consumer and total recycled content of the trash receptacle materials in accordance with current ISO definitions.
- D. Warranty: Provide copy of at least 1 year minimum warranty coverage.

1.05 Protection

Deliver, handle, store and install product in accordance with manufacturer's instructions to prevent damage.

PART 2: PRODUCTS

2.01 Historic Bench

- A. Type: Titan or Park Manufacturing Company Victorian Bench or equal, as shown below.
- B. This furniture is used throughout Packer Campus.
- C. Surface mount or in-ground anchoring method.

2.02 Historic Picnic Table

- A. Type: Titan or Park Manufacturing Company Victorian Picnic Table or equal, as shown below.
- B. This furniture is used around residential buildings on Packer Campus.
- C. Surface mount or in-ground anchoring method.



Historic Bench



Historic Picnic Table

(Note: Wheelchair seating areas next to benches and ADA accessible picnic tables are desired. Larger concrete pads preferred as described in Section 3 Execution).

2.03 Picnic Furniture for Outdoor Plazas

- A. Stacking Chair: emuamericas, LLC, Model Ronda #116, silver aluminum finish
 - 1. Frame: Tubular steel
 - 2. Seat/Back: Extended steel mesh
 - 3. Number of chairs that can be stacked: 12



- B. Stacking Bar Height Chair: emuamericas, LLC, Model Ronda Bar #128, silver aluminum finish

1. Frame: Tubular steel
2. Seat/Back: Extended steel mesh
3. Number of chairs that can be stacked: 4



- C. Umbrella Tables: emuamericas, LLC, Model Cambi (in shapes and sizes listed below), silver aluminum finish

1. Base: Tubular steel legs
2. Top: Extended steel mesh, thickness 1-1/4"
3. Umbrella Hole Diameter: 1-9/16"
4. Shapes and Sizes:
 - Model Cambi #802, 36" square
 - Model Cambi #803, 32" round
 - Model Cambi #804, 42" round
 - Model Cambi #805, 48" round
 - Model Cambi Bar Height #820, 32" round



Examples of Cambi Square, Round and Bar Height Tables

- D. This furniture is currently used at the following campus locations (among others):

1. Rauch Business Center plaza adjacent to the Common Grounds eatery
2. Rathbone Hall front patio
3. Centennial I Complex patio
4. Plaza between EWFM, Maginnes and STEPS
5. Zoellner Arts Center

- E. Local Supplier: Interior Workplace Solutions, LLC., 6765 Ambassador Drive, Allentown, PA 18106. Telephone: 610-391-0733. Fax: 610-391-1155.

2.04 Umbrellas for Outdoor Plaza Picnic Furniture

- A. Manufacturer or Equal: FiberBuilt Umbrellas and Cushions, P.O. Box 9060, Fort Lauderdale, FL 33310. Telephone: 1-866-667-8668. Fax: 954-484-4654. fiberbuiltumbrellas.com

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- B. Type: Market umbrella with crank, 9' high, octagonal. Flexible fiberglass ribs (1/2" diameter) with molded nylon joints, hubs and end tips. Powder coated Champagne Bronze finish. Single vent canopy with vent and storage ties. Collar tilt. Two piece 1-1/2" diameter aluminum pole, .080 thickness. Color of top material is natural. Previous order information: 9H8RCRC-SA-Natural, UM-PAT-CBRNZ 09'OCTm CR 8RB, 1VS Spun AC (Natural)
 - C. Base: Model BS-P14W, plastic, white, 16" diameter round, 9" high (00231), with molded carrying handle, to be filled with sand or water.
 - D. Local Supplier: TransAmerican Office Furniture, 1275 Glenlivet Drive, Allentown, PA 18106. Telephone: 610-972-3231. Fax: 610-630-3015.

PART 3: EXECUTION

3.01 Historic Bench Installation

- A. Anchoring and Leveling: Benches shall be affixed to a concrete pad using fastening methods as required by the manufacturer.
- B. Concrete Pad
 - 1. Overall Design: Single benches shall be placed facing and parallel to the path of travel on a single concrete pad. Groupings of benches shall be placed perpendicular to the path of travel or in a U-shaped configuration, with the open end of the "U" adjacent to the path of travel. A new pad shall abut and be square with existing pavement.
 - 2. Pad Shape and Size for Single Bench: Cast-in-place concrete pad to be rectangular in shape and provide a wheelchair parking space adjacent to the bench. The pad shall extend beyond the bench the following minimum distances:
 - a. 2' beyond the front of the bench adjacent to the path of travel.
 - b. 1' beyond the back of the bench.
 - c. 1' beyond the side of the bench where an adjacent wheelchair parking space will NOT be provided.
 - d. 3'-6" beyond the side of the bench where an adjacent wheelchair parking space WILL be provided.
 - 3. Pad Shape and Size for a Bench Grouping: Cast-in-place concrete pad to be rectangular in shape and provide a wheelchair parking space adjacent to each bench. The pad shall extend beyond the bench the following minimum distances:
 - a. 2' beyond the front of the bench adjacent to the path of travel. 10' separation is required between the fronts of benches that face each other. The front corners of adjacent benches that are perpendicular to each other shall be 3' apart as measured along a 45 degree angle between the corners.
 - b. 1' beyond the back of the bench.

- c. 1'-6" beyond the side of the bench where an adjacent wheelchair parking space will NOT be provided.
 - d. 3'-6" beyond the side of the bench where an adjacent wheelchair parking space WILL be provided.
4. Materials: 6" thick, with 6x6 woven wire mesh and aggregate base.
 5. Grade: Top of pad to be flush with surrounding grade. Slope of concrete pad to be minimum 1%, maximum 2%.

3.02 Historic Picnic Table Installation

- A. Anchoring and Leveling: Picnic tables and chairs shall be affixed to a concrete pad using fastening methods as required by the manufacturer.
- B. Concrete Pad
 1. Overall Design: One picnic tables shall be placed on a single concrete pad. A new pad shall abut and be square with existing pavement.
 2. Shape and Size: Cast-in-place concrete pad to be rectangular in shape and provide a wheelchair access at one end of the picnic table. The pad shall extend beyond the picnic table the following minimum distances:
 - a. 3' beyond the back of the picnic table seats
 - b. 2' beyond the side of the picnic table where an adjacent wheelchair parking space will NOT be provided.
 - c. 5' beyond the end of the picnic table where an adjacent wheelchair parking space WILL be provided.
 3. Materials: 6" thick, with 6x6 woven wire mesh and aggregate base. 3,000 psi.
 4. Grade: Top of pad to be flush with surrounding grade. Slope of concrete pad to be minimum 1%, maximum 2%.

3.03 Picnic Furniture for Outdoor Plazas Installation

- A. Picnic Furniture shall be placed in such a manner as to minimize user encroachment into travel routes and discourage inappropriate access to the furniture through landscaped areas. In general, the number of seats in association with picnic tables provided shall not exceed 1 per 15 square foot of plaza space.
- B. Anchoring: Picnic chairs shall be affixed to picnic tables using vinyl coated galvanized steel aircraft cable.

3.04 Shop Drawings

Provide shop drawings showing fabrication and construction details (including proposed size and scoring pattern for concrete pad and depictions of the relationship of proposed benches and picnic furniture to adjacent travel routes, pavement or landscaped surfaces and other site amenities such as trash receptacles).