Division 12  Furnishings

12 00 00  Furnishings

12 00 03  General Provisions

1. The Architect/Engineer (A/E) shall provide layouts of both fixed and furnishings/moveable equipment as identified in the project pre-planning documents and include them as part of the 35% review documents. These plans provide an important means to confirm function and space usage for each room or space within the project.

2. The A/E shall coordinate all required power/voice and data services leading to fixed and furnishings/moveable equipment locations as shown within these documents and make corrections and updates as needed based on review comments. In addition, the A/E shall provide any details and/or drawings necessary to preserve critical dimensions and locations for the furnishings.

3. The construction documents released for bidding shall include furnishings plans, noted as being for informational purposes only, so that the contractors are given as much information on the use of each space as possible and also understand the reasoning behind locations of outlets, etc.

4. Care shall be taken to coordinate furniture locations with window locations, perimeter mechanicals, door swings, thermostat, outlet, and switch locations, behind-the-door elements such as coat hooks, floor boxes, and ceiling based light fixture locations.

5. The A/E shall coordinate the height of outlets with any modesty or structural panel related to furnishes to the extent known by the design team so that outlets do not become inaccessible.

6. The A/E shall be responsible for the location of all needed wall blocking and therefore shall confirm with the building occupants, their known needs and locations for blocking to support walk mounted items such as coat hooks, mirrors, wall mounted furnishings i.e. storage, tack boards, marker boards, etc.

7. Private offices shall be designed in such a way as to be able to be turned into multi-person offices at some point including provisions for voice, data, power and fire alarm.

8. The Guidelines for Planning and Design of UW-Madison Facilities shall take precedence over DFDM Guidelines, but the A/E shall discuss all conflicts within the guidelines and specifications with the UW-Madison Project Manager.

9. The goals and guiding principles of the UW-Madison Campus Master Plan (latest edition) shall be considered and referenced as part of the planning, design, detailing, and material section for every project.

12 05 00  Common Work Results for Furniture Selection

12 05 05  General Requirements for Furniture Selection

1. It is the goal of the University of Wisconsin – Madison to use sustainable (green) and locally sourced products to the greatest extent possible. Locally sourced shall be
defined as products which are harvested or manufactured within a 500 mile radius of the campus.

2. All specified furniture shall meet the mandates set forth by the State of Wisconsin. Per an agreement with the Wisconsin Department of Corrections, the UW–Madison has a Memorandum of Understanding (MOU) regarding the purchase of Badger State Industries (BSI) furnishings to purchase product as specified by State of Wisconsin mandate. See UW-Madison Purchasing Services web page for furniture purchasing guidelines.

3. UW-Madison shall buy exclusively from BSI:

3.1. Metal Book Shelves.
3.1.2. Metal Files and Storage.
3.1.3. Fixed Base Tables with Laminate Tops.

3.2. UW-Madison shall either purchase from BSI or include BSI in the process to competitively price the following items:

3.2.1. Private office desking systems (metal base/laminate tops).
3.2.2. Open office furniture / panel-mounted workstations.
3.2.3. Non-ergonomic seating.
3.2.4. Custom designed office furniture.

3.3. UW-Madison shall have automatic waivers from BSI for the following products:

3.3.1. Wood veneer or other custom material tables.
3.3.2. Tables with power/data, flip top, or mobile capabilities.
3.3.3. Private office desking systems (wood veneer).
3.3.4. Wood veneer furniture (i.e. file cabinets, tables).
3.3.5. Ergonomic seating.

3.4. Additional Situations on Auto Waiver:

3.4.1. BSI confirms they cannot meet delivery dates.
3.4.2. BSI declines to provide quote.
3.4.3. Cost of BSI items exceeds cost for similar products.
3.4.4. Product being purchased will match existing furniture installations.

4. Ergonomic chairs are considered “customer choice” and will be evaluated individually by the projects’ design team, typically through a “chair fair” process.
5. The UW-Madison MISCELLANEOUS EDUCATION-RELATED FURNITURE & FURNITURE-RELATED ACCESSORIES contract (07-5665) is designed to offer users a variety of manufacturers and distributors from which they can purchase furniture and furniture related accessories. There are also DOA and UW System Contracts which can be used. See this link for an index of contracts.
http://www.bussvc.wisc.edu/purch/contract/conindx.html

6. The goal of the campus is to purchase a minimum of 5% of the total furniture package from minority business enterprises (MBE), when available. See http://www.bussvc.wisc.edu/purch/contract/furncont.html

7. Process: When included in the A/E contract, the UW-Madison Project Manager shall direct the design/procurement process on all projects and will work directly with the design team representative (if the contract for design services includes) and/or user group representatives from the School or College on the selection of furniture, finishes, and equipment (FF&E). When contracted for services, the design team shall:

7.1. Develop a complete schedule for the FF&E design process, coordinated with the main project schedule

7.2. Develop the departmental programming needs for the project’s FF&E.

7.3. Provide the user groups with a variety of options and styles for each category of furnishings.

7.4. Develop a preliminary budget package for review and options for items that exceed the budget if it becomes necessary.

7.5. Develop a full package of specifications and coded furniture plans for distribution to vendors for pricing and procurement by UW-Madison Facilities Planning and Management (FP&M) staff.

7.6. Work closely with the UW-Madison Project Manager to develop a well-coordinated delivery and installation schedule.

7.7. Develop a complete punchlist after installation is complete, facilitate vendor follow-up and sign off.

7.8. Provide two sets of the complete record of all purchased and installed products including specifications, coded plans, cost information, vendor and manufacturer contact information, and images of each component, organized by product type, in binders for future reference by the building occupants.

8. Installation Responsibilities:

8.1. All vendors/installers shall wear an ID badge while on campus with photo, name, and company name.

The University of Wisconsin-Madison shall no longer permit access to trucks over 30 ft. in length on several designated streets on this campus. The exceptions are trucks necessary for the delivery or pick up of perishable commodities, private construction vehicles, vehicles carrying radioactive materials, and campus service vehicles. For specific policy language, a campus map and restrictions go to the UW-Madison Transportation Services website.
8.2. Vendor Parking. The University parking is very limited. Each vendor and/or employee(s) shall make their own arrangements for parking through UW-Madison Transportation Services in Room #120 WARF Building, 610 Walnut Street, Madison, WI (608) 263-6666. No additional costs shall be allowed for parking fees or violations. Unauthorized vehicles parking in University lots or loading docks without permits will be ticketed and or towed.

8.3. All debris shall be removed from University premises and properly disposed of by the vendor/installer at the end of each work day per UW-Madison and State contract.

8.4. The telecom/electrical contractor shall install power and data lines to the location where panel systems will be installed. They shall also order the data jacks and notify the furniture installer of the model/size of outlets.

8.5. The electrical contractor hardwires the base power feed whips to the junction box in the floor or wall. The furniture installer shall be responsible for providing the whips to the Electrical Contractor in a timely manner ahead of the delivery of the panels systems so that all infrastructures are in place prior to installation of the furniture.

120520 General Requirements for Non-Furniture Moveable Equipment

1. There are items other than furniture that shall be purchased with “Moveable Equipment” funds. Non-Furniture Moveable Equipment shall be purchased for project:

1.1. Fire extinguishers as determined by UW-Madison Environment, Health and Safety (EH&S).

1.2. Janitorial/Maintenance equipment as determined by UW-Madison Custodial.

1.3. Aerial lift if required to clean/maintain windows, clerestories, skylights and lighting.

1.4. Freestanding waste and recycle bins for public and personal use.

1.5. Under counter refrigerators.

1.6. Dumpsters.

1.7. Exterior building signs (UW-Madison standard) and commissioned art recognition plaques

1.8. Bio-safety cabinet certification, if required

1.9. Access control system equipment, one line documents and commissioning determined by UW-Madison Electric Shop.

1.10. Network electronics for MDF/IDF determined by UW-Madison DO-IT.

1.11. Wireless network access points

2. Equipment to be designed by the A/E, purchased by owner, and installed by contractor:

2.1. Compactors determined by UW-Madison Custodial.

2.2. Keys, keying and cylinders shall be determined by UW-Madison Lock Shop with contractor to install. See Division 08 – Doors and Windows for hardware details.
3. The following is a list of equipment sometimes thought to be “furnishings,” but which need to be specified by the A/E and purchased and installed by the contractor:


3.2. Wall mounted brochure or other type racks (blocking required).

3.3. Coat hooks/racks (blocking required).

3.4. Display cases.

3.5. Interior and Way-Finding Signage. See Division 10 for requirements.

3.6. Digital Signage and building directories as required. This can include a connection to the campus-wide “green screen” project which affords the department an opportunity to visually display their utility usage and sustainability goals.

3.7. Computer systems for teaching podiums.

3.8. Ice Machines (water connection required).

3.9. Residential stoves with required commercial exhaust hoods are discouraged. When required, they shall be approved by the UW-Madison Project Manager and then furnished and installed by the contractor.

3.10. Tack boards and marker boards (blocking required).

3.11. Dishwashers (water/waste connections required).

3.12. Window coverings (blocking and/or architectural “pocket” required).


3.14. Site furnishings including benches, outdoor tables, waste/recycle/ash containers, and bike racks. See Division 12 93 00 Other Furnishings.

4. Items not covered under FF&E and are the responsibility of each Department:

4.1. Move Coordination with Space Management. Consult Relocation Guide found at address below: https://fpm-www3.fpm.wisc.edu/SpaceManagementOffice/LinkClick.aspx?fileticket=OJmoFCa7tm%3d&tabid=78&mid=460

4.2. Phone Activation and/or transfer.

4.3. Equipment: Fax machines, copiers, scanners, or leasing of equipment.

5. All thermostats shall be located directly adjacent to light switches in private offices and conference rooms. These shall be placed next to the latch side of the door or side light so the remainder of the wall is open for furniture placement. Coordinate furniture plans with electrical and control plans.
12 20 00 Window Treatments

1. The A/E shall provide treatment to all windows applicable to the building design and user functions. All window treatments, interior and exterior, are integral to the energy management of the building as well as the control of light and comfort of the occupants.

2. All proposed manufacturer’s products and hardware shall be rated for extra heavy duty commercial use.

3. A/E shall include all structural requirements, blocking, services and construction coordination for the installation of all window treatments.

4. All product specifications including accessories, colors finishes applications and details shall be approved by the UW-Madison Project Manager prior to the final development of the construction documents.

5. All window treatments specified with operating hardware shall include the necessary power and electrical controls for proper installation.

6. Bird Strike Mitigation. Window treatments should be considered in the context of the building envelope design to mitigate bird collisions. Architectural glazing (type, quantity, and orientation), awnings, overhangs, exterior screens, grilles, sunshades, and visual markers are methods of bird collision deterrence. Consider products which have been tested and evaluated by the American Bird Conservancy.

12 21 00 Window Blinds

1. All window blinds shall be considered fixed equipment and are funded within the construction budget.

2. In existing buildings there may be a desire to match existing window blinds. Consult with the UW-Madison Project Manager to determine if this is appropriate.

3. All colors finishes, applications and details shall be approved by UW-Madison Project Manager prior to the final development of the construction documents.

12 22 00 Curtains and Draperies

1. All curtains and draperies shall be considered fixed equipment and are funded within the construction budget.

2. In existing buildings there may be a desire to match existing curtains and draperies. Consult with the UW-Madison Project Manager to determine if this is appropriate.

3. All colors finishes applications and details shall be approved by UW-Madison Project Manager prior to the final development of the construction documents.

12 24 00 Window Shades

1. All Window Shades shall be considered fixed equipment and are funded within the construction budget.

2. In existing buildings there may be a desire to match existing window shades. Consult with the UW-Madison Project Manager to determine if this is appropriate.
3. All colors finishes applications and details shall be approved by UW-Madison Project Manager prior to the final development of the construction documents.

12 30 00 Casework

1. The A/E shall specify all utility fittings and fixtures for casework equal to that specified for the plumbing, HVAC, electrical and data connections.

2. All Casework shall be considered fixed equipment and are funded within the construction budget, all colors finishes applications and details shall be approved by UW-Madison Staff prior to the final development of the construction documents.

12 40 00 Furnishings and Accessories

12 46 00 Furnishing Accessories

12 46 33 Waste Receptacles

1. Preferred personal sized waste/recycling containers for offices are from Rubbermaid.

2. Public areas have the option to either purchase waste and recycling containers with FF&E or coordinate with the architecture as a built-in.

3. All built-in waste/recycling receptacles shall be specified with a liner.

12 48 00 Rugs and Mats

12 48 13 Entrance Floor Mats and Frames

1. Campus buildings with heavy student or public traffic shall incorporate walk-off mats, recessed in the floor, at building entries. They shall be easily removable for cleaning and the texture shall be selected to clean shoes quickly. The type of walk-off mat is left to the discretion of the design team, working in collaboration with UW-Madison Facilities Planning & Management staff. Sections of the mat material should be run opposite to the flow of traffic. It shall be expected that despite the best efforts of the design team, there may be seasons where additional mats are placed over these by UW-Madison Custodial.

2. If project funds allow, it shall be suggested that seasonal walk-off mats be designed and purchased specific to the building. Campus standards for these types of mats are governed by UW-Madison Custodial and the mats are presently available from Mats, Inc. through Kleenmark. From their available products, the campus standard is to use “Supreme Nop” with all four edges bound and base color charcoal #07. It shall be acceptable to specify the solid color mat or to have a custom UW-Madison crest logo cut into the mat. If the logo is cut in, Mats, Inc. will provide the mats with a solid backing sheet added to secure the cut logo. Approved UW-Madison Crest logo colors are as follows: #05 Natural shall be used for the “Gold” and #49 Autumn Red shall be used for the “Red” portions of the crest.

3. The pile height and edge of an area rug shall not cause a trip hazard and shall be easily removable for cleaning.
12 50 00 Furniture

12 50 05 Furniture Quality Standards
1. Durable/low maintenance finishes shall be required.
2. Lecture hall chairs shall be ergonomic and armless unless otherwise approved.
3. Tablet arm chairs shall not be included in the design of new facilities unless there are mitigating circumstances. In renovation projects, where replacement of existing tablet arm chairs is required, tablets shall be finished with high pressure laminate, of an appropriately large size, and supported by a structure able to withstand a 200 pound load.
4. It is preferred but not required to have all office and other furniture be self-supporting, not attached to walls to facilitate changes without wall repair.
5. Fabrics for lounge and other high use furniture shall be a minimum of 90,000 double rubs. Other seating fabrics must meet 40,000 double rubs. Fabric patterns and colors should be selected for their ability to hide soiling and wear.

12 56 00 Institutional Furniture

12 56 53 Laboratory Furniture
1. Laboratory equipment may be purchased out of the moveable equipment budget after furniture requirements are satisfied. Service agreements cannot be paid for using project funds.
2. All casework shall be provided and installed by the contractor. The required utility connections make casework unworkable as a separately purchased item.
3. All bench tops shall be epoxy. Gray is the campus standard, but if user needs require, black can be specified.
4. Reagent racks and shelves are to be supported above the countertop and fully adjustable.

12 61 00 Audience Seating
The A/E shall indicate complete specifications showing manufacturer, product number, materials and details from a select product and at least two additional manufactures, product numbers, materials and details showing equal capability.

12 90 00 Other Furnishings

12 91 00 Parking Structure Furnishings
1. Trash receptacles and ash urns shall be bracketed and mounted to the wall near all stairwells on each floor and any pedestrian ground level exit/entry point.
2. Receptacles shall be Brown, Rubbermaid 35 gallon, hinged (on one side) top containers without liners. Receptacles shall match the ones currently used by UW-Madison Transportation Services.
3. Ash Trays shall be brown stone panel wall mounted urn – approximately 10 inches square x 13 inches high and be mounted interior to the facility.

4. All trash receptacles and ash urns located outside the parking facility shall match current campus standards. See Section 12 93 23 Waste, Recycling, and Ash receptacles.

5. Supply of cans and installation shall be the responsibility of the contractor and shall be done before final completion.

12 93 00 Site Furnishings

1. All site furnishings, also referred to as Campus Site Amenities, shall meet current campus standards and be reviewed by UW-Madison Campus Planning & Landscape Architecture (CPLA). Furnishings include: benches, trash/recycle/ash receptacles, tables, cluster seating, bicycle racks, bollards, lighting, bus shelters, plant containers, signage, plaques, and memorials.

2. Locations of site furnishings shall be identified in the 35% and 100% review documents. Detail drawings and specifications for each shall be provided in the plan set.

3. Site Furnishings shall be located such that they do not limit access to accessible door hardware or key access pads at entrances.

4. UW-Madison Campus Planning & Landscape Architecture shall review all exterior site furnishing submittals to ensure campus standards are followed.

5. Existing site furnishings within a project boundary shall be replaced with the respective current campus standard.

6. Consult UW-Madison Campus Planning & Landscape Architecture regarding existing historically significant or inscribed memorial site furnishings within the project scope and limits.

7. Stainless steel or zinc plated anchor bolts and sleeves, washers, etc. shall be used to anchor all site furnishings.

12 3 13 Bike Racks

1. Campus Standard Bicycle Racks (See end of Division 12 for detail drawings)

1.1 UW-Madison Duckbill Rack: Galvanized finish, single or double sided, surface mounted.

1.2. UW-Madison Regent Rack (High-density rack): Galvanized finish, single or double sided, surface mounted. Use of racks on campus shall be approved by UW-Madison Transportation Services and Campus Planning & Landscape Architecture.

1.1.1. The Regent bicycle rack is manufactured by Madrax. Typical lengths are five (5) foot [double-sided 8 stalls], and ten (10) foot [single-sided 8 stall]
1.3. These are customized, sole source item. No product substitutions will be approved. DFDM requires a Class 1 notice to be included in the specification.

2. Non-campus standard bicycle racks

2.1. When non-campus standard bicycle racks are proposed (and there use is approved by UW-Madison Transportation Services), they shall adhere to the City of Madison Bicycle Parking Design and Location criteria as stated in MGO 28.141.

3. Bicycle parking shall be ground mounted and areas shall have access aisles of a minimum of five (5) feet in width and have a six (6) foot vertical clearance minimum.

3.1. All bicycle racks shall be surface mounted to concrete or other hardscape using stainless steel hardware and follow manufacturer’s specifications for installation.

3.2. Use anchor sleeves with bolts and washers so the racks can be removed and relocated as necessary without drilling new holes into the concrete.

4. Each bicycle parking stall must be accessible without having to move another bicycle and its placement shall not result in a bicycle obstructing a required walkway.

5. Project contractor shall furnish, assemble, and anchor all bicycle racks.

6. Bicycle parking at UW-Madison is determined at the campus area level and not per each individual building and/or destination. Consideration is given to the type, use, and location of buildings and/or destinations within the entire campus context. Bicycle parking shall be provided at each campus building and/or destination in a quantity determined by UW-Madison Transportation Services. This may require projects to provide additional bicycle parking spaces if there is a determined deficiency within the area.

6.1. The minimum number of spaces per a destination shall adhere to the City of Madison General Ordinance 28.141.

6.2. At UW-Madison Residence Halls, campus standard bicycle racks shall consist of at least 50% of the required bicycle parking stalls.

6.3. Site locations for the required number of bicycle parking spaces shall be included in the 35% review documents along with detail drawings and specifications.

6.4. Include nearby large lecture halls within the building project when determining bicycle rack quantities.

7. Bicycle Parking Layout

7.1. Bicycle racks should be conveniently located to destinations and should be sited to correspond with specific destination entrances and screened with landscape plantings to better integrate them into the campus environment. Bicycle parking shall not clutter building entrances, impede upon other site amenities, or restrict circulation routes. This requirement shall be balanced with site security, including lighting accommodations, in the creation of the final layout and design.
7.2. The provision of covered bicycle parking is encouraged. Techniques may include under a building canopy, using a covered architectural element, or within a storage locker.

7.3. The landscape design shall accommodate future growth for bike racks.

7.4. Bicycle parking areas shall be accessible to bicyclists via curb cuts, curb ramps, rolled curbs, etc.

7.5. Bicycle parking spaces shall have vertical clearance of at least 6 feet and an accessible aisle that is at least 5 feet wide.

7.6. Locate bicycle parking to avoid conflicts with pedestrian circulation routes and motor vehicle movements, including mopeds.

7.7. Building shall include provisions for bicyclists to shower and change.

8. Bicycle Parking in Parking Structures

8.1. Above ground and underground parking structures/ramps shall provide bicycle parking. A minimum of twenty-two (22) spaces near the entrance shall be required.

8.2. Bicycle parking can be level with adjacent grade, assuming slopes accommodate for drainage and water is not directed into the structure.

8.3. Refer to Division 32 – Exterior Improvements for moped parking requirements.

12 93 23 Waste, Recycling and Ash Receptacles

1. The project contractor shall assemble, purchase, install, and anchor all waste, recycling and ash receptacles.

1.1. All waste, recycling and ash receptacles shall be anchored to concrete or other hardscape using stainless steel hardware and shall follow the manufacturer’s specifications for installation.

2. Waste, recycling and ash receptacles purchased with funds outside of project shall be reviewed and approved by UW-Madison Campus Planning & Landscape Architecture.

3. The campus standard for trash receptacles is Wausau Tile del #MF3200, 36 gallon unit, Metal Armor Matte Black finish and color.

3.1. The campus standard trash can is a sole source item. No product substitutions will be approved. DFDM requires a Class 1 notice to be included in the specifications.

4. The campus standard for ash urns is Wausau Tile, #MF4005, Metal Armor textured black finish and color.

4.1. The campus standard ash urn is a sole source item. No product substitutions will be approved. DFDM requires a Class 1 notice to be included in the specifications.

5. The alternate campus standard ash urn may only be used with approval from UW-Madison Campus Planning & Landscape Architecture. This will be used in rare instances as warranted by site conditions or constraints.
5.1. The only alternate ash urn model is Rubbermaid Commercial Products Metropolitan Smokers’ Station. Model number R93400BK, color textured black.

5.2. Ash Urns shall be placed a minimum of 25 feet away from building entrances and building air intakes. Each ash urn shall be paired with a waste receptacle, and, a recycling container.

6. The campus standard recycling receptacle is Wausau Tile#MF3252, 36-gallon unit, Metal Armor matte lack finish and color. Each recycling unit shall be paired with a waste receptacle.

6.1. The campus standard recycling receptacle is a sole source item. No product substitutions will be approved. DFDM requires a Class 1 notice to be included in the specifications.

6.2. See Division 12 Detail 4 at end of division

12 93 43 Site Seating and Tables

1. Project contractor shall assemble, purchase, install and anchor all site seating, benches and tables.

1.1. All site seating, benches and tables shall be anchored to concrete or other hardscape using stainless steel hardware and follow the manufacturer’s specifications for installation.

2. Site seating, benches and tables purchased with funds outside of project shall be reviewed and approved by UW-Madison Campus Planning and Landscape Architecture.

3. Skateboards, roller blades, and BMX bikes cause damage to site seating, benches, and tables. All projects shall include features to deter such damage. See Section 32 32 9.

4. Campus standard for benches (Excluding the Lakeshore Nature Preserve) is Wausau Tile, #MF2207, Metal Armor textured black finish and color. (5 foot, arched back). #MF2204 with middle arm (6 foot, arched back), Metal Armor textured black finish and color may be considered in certain situations.

4.1 The campus standard exterior benches are a sole source item. No product substitutions will be approved. DFDM requires a Class 1 notice to be included in the specifications.

4.2 Bench layout design shall include companion seating per ADA requirements. See Division 12 Detail 5 at end of division.

5. The campus standard for outdoor tables is Landscape Forms, Inc. Carousel table series with attached seating.

5.1. The campus standard outdoor table is a sole source item. No product substitutions will be approved. DFDM requires a Class 1 notice to be included in the specifications.

5.2. Table details and location shall be approved by UW-Madison Campus Planning & Landscape Architecture.
5.3. The color shall be coordinated with the site and approved by UW-Madison Campus Planning & Landscape Architecture. Default color is matte black.

5.4. Seats shall be metal grid or perforated metal and match color with rest of table unit. There is the option for backed or backless seats.

5.5. Table tops shall be steelhead perforated with umbrella hole.

5.6. The number of accessible tables shall follow ADA guidelines.

5.7. Tables w/ umbrellas shall be anchored to concrete or hard surface.

5.8. Tables shall be located on a paved surface away from major pedestrian walks and not in lawn areas unless on a concrete pad.

5.9. Tables shall be anchored to concrete, other hard surface, or concrete footing. Use stainless steel hardware and follow manufacturer’s specifications.

5.10. All tables on roof tops and/or green roofs shall be anchored.
NOTES:

1. See UW-Madison Technical Guidelines Division 12 93 13 Bike Racks for more information regarding campus standards for bike racks.
Division 12 Detail 2

Refer to Section 12 93 13 Bike Racks
Division 12 Detail 3
Refer to Section 12 93 13 Bike Racks
Division 12 Detail 4

Refer to Section 12 93 13 Bike Racks
Division 12 Detail 5
Refer to Section 12 93 13 Bike Racks
Division 12 Detail 6
Refer to Section 12 93 13 Bike Racks

PRODUCT: RGT-16-DBL
DESCRIPTION: REGENT BIKE RACK
16 BIKE, DOUBLE SIDED (PARK BOTH SIDES)
DATE 11/13/12
ENG: BLW

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NOTES:
1. INSTALL BIKE RACKS ACCORDING TO MANUFACTURER’S SPECIFICATIONS.
2. CONSULTANT TO SELECT COLOR/FINISH. SEE MANUFACTURER’S SPECIFICATIONS.
3. SEE SITE PLAN FOR LOCATION OR CONSULT OWNER.
Division 12 Detail 7
12 93 23 Waste, Recycling and Ash Receptacles
Notes

1. Concrete pad shall be 10'-0" long x 6'-0" wide x 4" thick.
2. Control joints shall be used as shown.
3. Anchor bolts shall be welded flat to resilient rubber washer, "L" shaped.

Refer to Division 12.9343 Site Seating and Tables.